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

SEMI-VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q1608

ATTENTION : Eleanor Vivadou

Laboratory Certification ID # 20012

Table Of Contents for Q1608

1) SEMI-VOLATILE DATA 2
2) Signature Page 5
3) Case Narrative 6
4) Qualifier Page 8
5) Conformance/Non Conformance 9
6) QA Checklist 11
7) Chronicle 12
8) Hit Summary 15
9) QC Data Summary For SVOC-SIMGroup1 19
9.1) Deuterated Monitoring Compound Summary 20
9.2) MS/MSD Summary 25
9.3) LCS/LCSD Summary 27
9.4) Method Blank Summary 30
9.5) GS/MS Tune Summary 32
9.6) Internal Standard Area and RT Summary 37
10) Sample Data 45
10.1) TT172S1-20250317 46
10.2) RE139D1-20250317 57
10.3) RE139D2-20250317 68
10.4) TT205S1-20250317 79
10.5) DUP07-20250317 90
10.6) TT163S1-20250317 101
10.7) RW11-MW01S-20250317 112
10.8) RW11-MW01I-20250317 123
10.9) GM38-RW3-MW1-20250318 134
10.10) DUP08-20250318 145
10.11) DUP08-20250318DL 157
10.12) RE132D1-20250318 168
10.13) RE132D2-20250318 179
10.14) RE132D2-20250318DL 190
10.15) RE132D3-20250318 201
10.16) RE132D3-20250318DL 212
10.17) RE132D4-20250318 223
10.18) RE132D5-20250318 234
10.19) RE132D5-20250318DL 246

10.20) RE132D6-20250318 257
10.21) RE132D6-20250318DL 269
10.22) RE132D7-20250318 281
10.23) RE117D2-20250319 293
10.24) TT101D2-20250319 304
10.25) TT161S1-20250319 315
10.26) TT189D2-20250319 326
10.27) TT189D2-20250319DL 337
10.28) RW8-MW01S-20250319 348
10.29) RW8-MW01D1-20250319 359
10.30) RW8-MW01D2-20250319 370
10.31) RW8-MW01D3-20250319 381
10.32) DUP09-20250319 392
11) Calibration Data Summary 403
11.1) Initial Calibration Data 4
11.1.1) BN031025 404
11.2) Continued Calibration Data 591
11.2.1) BN036729.D 591
11.2.2) BN036736.D 617
11.2.3) BN036738.D 643
11.2.4) BN036755.D 669
11.2.5) BN036757.D 695
11.2.6) BN036771.D 721
11.2.7) BN036773.D 747
11.2.8) BN036789.D 773
12) QC Sample Data 799
12.1) Tune Raw Data 800
12.2) Method Blank Data 820
12.3) LCS Data 840
12.4) LCSD Data 888
12.5) MS Data 912
12.6) MSD Data 936
13) Manual Integration 960
14) Analytical Runlogs 963
15) Extraction Logs 975

15.1) PB167232.pdf 975
15.2) PB167232IC.pdf 977
15.3) PB167251.pdf 978
15.4) PB167251IC.pdf 980
16) Standard Prep Logs 981
17) Shipping Document 1058
17.1) Chain Of Custody 1059
17.2) Lab Certificate 1062
17.3) Internal COC 1063
18) Not Reviewed Data 1068

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Cover Page

Order ID : Q1608

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
Q1608-01	TT172S1-20250317
Q1608-02	RE139D1-20250317
Q1608-03	RE139D2-20250317
Q1608-04	TT205S1-20250317
Q1608-05	DUP07-20250317
Q1608-06	TT163S1-20250317
Q1608-07	RW11-MW01S-20250317
Q1608-08	RW11-MW01I-20250317
Q1608-09	GM38-RW3-MW1-20250318
Q1608-10	DUP08-20250318
Q1608-11	RE132D1-20250318
Q1608-12	RE132D1-20250318MS
Q1608-13	RE132D1-20250318MSD
Q1608-14	RE132D2-20250318
Q1608-15	RE132D3-20250318
Q1608-16	RE132D4-20250318
Q1608-17	RE132D5-20250318
Q1608-18	RE132D6-20250318
Q1608-19	RE132D7-20250318
Q1608-20	RE117D2-20250319
Q1608-21	TT101D2-20250319
Q1608-22	TT161S1-20250319
Q1608-23	TT189D2-20250319
Q1608-24	RW8-MW01S-20250319
Q1608-25	RW8-MW01D1-20250319
Q1608-26	RW8-MW01D2-20250319
Q1608-27	RW8-MW01D3-20250319
Q1608-28	DUP09-20250319
Q1608-29	TB

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: 4/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

AECOM Technical Services, Inc.
Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Project # N/A
Chemtech Project # Q1608
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
29 Water samples were received on 03/19/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for TT205S1-20250317 [2-Fluorobiphenyl - 111%], The above failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements except for RW8-MW01D2-20250319, The above failure Internal Standard not associated with the client parameters list, therefore no corrective action was taken.

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 for {Q1608-13MSD} with File ID: BN036767.D met criteria except for 1,4-Dioxane[22%], due to difference in results of MS and MSD .

The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

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The Continuous Calibration File ID BN036757.D met the requirements except for Terphenyl-d14, The above failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

Samples DUP08-20250318, RE132D2-20250318, RE132D3-20250318, RE132D5-20250318, RE132D6-20250318 and TT189D2-20250319 were diluted due to high concentrations.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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: Q1608 MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration File ID BN036757.D met the requirements except for Terphenyl-d14, The above failure compound not associated with the client parameters list, therefore no corrective action was taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for TT205S1-20250317 [2-Fluorobiphenyl - 111%],The above failure surrogates not associated with the client parameters list, therefore no corrective action was taken.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .The RPD for {Q1608-13MSD} with File ID: BN036767.D met criteria except for 1,4-Dioxane[22%], due to difference in results of MS and MSD .			✓

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

(CONTINUED)

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments: The Internal Standards Areas met the acceptable requirements except for RW8-MW01D2-20250319, The above failure Internal Standard not associated with the client parameters list, therefore no corrective action was taken.		✓	
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Samples DUP08-20250318, RE132D2-20250318, RE132D3-20250318, RE132D5-20250318, RE132D6-20250318 and TT189D2-20250319 were diluted due to high concentrations.

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

The not QT review data is reported in the Miscellaneous.

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

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1608

	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:** 04/02/2025

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LAB CHRONICLE

OrderID:	Q1608	**OrderDate:**	3/19/2025 2:28:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	I51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1608-01	**TT172S1-20250317**	**Water**			**03/17/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-02	**RE139D1-20250317**	**Water**			**03/17/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-03	**RE139D2-20250317**	**Water**			**03/17/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-04	**TT205S1-20250317**	**Water**			**03/17/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-05	**DUP07-20250317**	**Water**			**03/17/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-06	**TT163S1-20250317**	**Water**			**03/17/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-07	**RW11-MW01S-20250317**	**Water**			**03/17/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-08	**RW11-MW01I-20250317**	**Water**			**03/17/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-09	**GM38-RW3-MW1-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-10	**DUP08-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-10DL	**DUP08-20250318DL**	**Water**			**03/18/25**			**03/19/25**

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			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-11	**RE132D1-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-14	**RE132D2-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-14DL	**RE132D2-20250318DL**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-15	**RE132D3-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-15DL	**RE132D3-20250318DL**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-16	**RE132D4-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-17	**RE132D5-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-17DL	**RE132D5-20250318DL**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-18	**RE132D6-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/27/25	
Q1608-18DL	**RE132D6-20250318DL**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-19	**RE132D7-20250318**	**Water**			**03/18/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-20	**RE117D2-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/20/25	03/28/25	
Q1608-21	**TT101D2-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	

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LAB CHRONICLE

Q1608-22	**TT161S1-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	
Q1608-23	**TT189D2-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	
Q1608-23DL	**TT189D2-20250319DL**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	
Q1608-24	**RW8-MW01S-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	
Q1608-25	**RW8-MW01D1-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	
Q1608-26	**RW8-MW01D2-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	
Q1608-27	**RW8-MW01D3-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	
Q1608-28	**DUP09-20250319**	**Water**			**03/19/25**			**03/19/25**
			SVOC-SIMGroup1	8270-Modified		03/21/25	03/28/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT172S1-20250317									
Q1608-01	TT172S1-20250317	WATER	1,4-Dioxane	1.600		0.07	0.2	0.2	ug/L
			Total Svoc :			**1.60**			
			Total Concentration:			**1.60**			
Client ID : RE139D1-20250317									
Q1608-02	RE139D1-20250317	WATER	1,4-Dioxane	1.900		0.08	0.22	0.22	ug/L
			Total Svoc :			**1.90**			
			Total Concentration:			**1.90**			
Client ID : RE139D2-20250317									
Q1608-03	RE139D2-20250317	WATER	1,4-Dioxane	1.500		0.07	0.2	0.2	ug/L
			Total Svoc :			**1.50**			
			Total Concentration:			**1.50**			
Client ID : TT205S1-20250317									
Q1608-04	TT205S1-20250317	WATER	1,4-Dioxane	0.600		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.60**			
			Total Concentration:			**0.60**			
Client ID : DUP07-20250317									
Q1608-05	DUP07-20250317	WATER	1,4-Dioxane	0.530		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.53**			
			Total Concentration:			**0.53**			
Client ID : TT163S1-20250317									
Q1608-06	TT163S1-20250317	WATER	1,4-Dioxane	0.360		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.36**			
			Total Concentration:			**0.36**			
Client ID : RW11-MW01S-20250317									
Q1608-07	RW11-MW01S-2025031	WATER	1,4-Dioxane	0.140	J	0.07	0.2	0.2	ug/L
			Total Svoc :			**0.14**			
			Total Concentration:			**0.14**			
Client ID : GM38-RW3-MW1-20250318									
Q1608-09	GM38-RW3-MW1-2025(	WATER	1,4-Dioxane	2.100		0.07	0.2	0.2	ug/L
			Total Svoc :			**2.10**			
			Total Concentration:			**2.10**			
Client ID : DUP08-20250318									
Q1608-10	DUP08-20250318	WATER	1,4-Dioxane	6.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**6.20**			

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Hit Summary Sheet
SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**6.20**			
Client ID :	**DUP08-20250318DL**								
Q1608-10DL	DUP08-20250318DL	WATER	1,4-Dioxane	6.700	D	0.14	0.4	0.4	ug/L
			Total Svoc :			**6.70**			
			Total Concentration:			**6.70**			
Client ID :	**RE132D1-20250318**								
Q1608-11	RE132D1-20250318	WATER	1,4-Dioxane	4.600		0.07	0.2	0.2	ug/L
			Total Svoc :			**4.60**			
			Total Concentration:			**4.60**			
Client ID :	**RE132D2-20250318**								
Q1608-14	RE132D2-20250318	WATER	1,4-Dioxane	6.700	E	0.07	0.21	0.21	ug/L
			Total Svoc :			**6.70**			
			Total Concentration:			**6.70**			
Client ID :	**RE132D2-20250318DL**								
Q1608-14DL	RE132D2-20250318DL	WATER	1,4-Dioxane	6.700	D	0.14	0.42	0.42	ug/L
			Total Svoc :			**6.70**			
			Total Concentration:			**6.70**			
Client ID :	**RE132D3-20250318**								
Q1608-15	RE132D3-20250318	WATER	1,4-Dioxane	5.300	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**5.30**			
			Total Concentration:			**5.30**			
Client ID :	**RE132D3-20250318DL**								
Q1608-15DL	RE132D3-20250318DL	WATER	1,4-Dioxane	5.200	D	0.14	0.4	0.4	ug/L
			Total Svoc :			**5.20**			
			Total Concentration:			**5.20**			
Client ID :	**RE132D4-20250318**								
Q1608-16	RE132D4-20250318	WATER	1,4-Dioxane	4.900		0.07	0.2	0.2	ug/L
			Total Svoc :			**4.90**			
			Total Concentration:			**4.90**			
Client ID :	**RE132D5-20250318**								
Q1608-17	RE132D5-20250318	WATER	1,4-Dioxane	5.700	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**5.70**			
			Total Concentration:			**5.70**			
Client ID :	**RE132D5-20250318DL**								
Q1608-17DL	RE132D5-20250318DL	WATER	1,4-Dioxane	6.100	D	0.14	0.4	0.4	ug/L
			Total Svoc :			**6.10**			

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**6.10**			
Client ID :	**RE132D6-20250318**								
Q1608-18	RE132D6-20250318	WATER	1,4-Dioxane	6.900	E	0.07	0.21	0.21	ug/L
			Total Svoc :			**6.90**			
			Total Concentration:			**6.90**			
Client ID :	**RE132D6-20250318DL**								
Q1608-18DL	RE132D6-20250318DL	WATER	1,4-Dioxane	6.800	D	0.15	0.42	0.42	ug/L
			Total Svoc :			**6.80**			
			Total Concentration:			**6.80**			
Client ID :	**RE132D7-20250318**								
Q1608-19	RE132D7-20250318	WATER	1,4-Dioxane	3.900		0.08	0.23	0.23	ug/L
			Total Svoc :			**3.90**			
			Total Concentration:			**3.90**			
Client ID :	**TT101D2-20250319**								
Q1608-21	TT101D2-20250319	WATER	1,4-Dioxane	4.300		0.08	0.22	0.22	ug/L
			Total Svoc :			**4.30**			
			Total Concentration:			**4.30**			
Client ID :	**TT161S1-20250319**								
Q1608-22	TT161S1-20250319	WATER	1,4-Dioxane	0.340		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.34**			
			Total Concentration:			**0.34**			
Client ID :	**TT189D2-20250319**								
Q1608-23	TT189D2-20250319	WATER	1,4-Dioxane	6.100	E	0.07	0.21	0.21	ug/L
			Total Svoc :			**6.10**			
			Total Concentration:			**6.10**			
Client ID :	**TT189D2-20250319DL**								
Q1608-23DL	TT189D2-20250319DL	WATER	1,4-Dioxane	5.900	D	0.14	0.42	0.42	ug/L
			Total Svoc :			**5.90**			
			Total Concentration:			**5.90**			
Client ID :	**RW8-MW01S-20250319**								
Q1608-24	RW8-MW01S-20250319	WATER	1,4-Dioxane	0.740		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.74**			
			Total Concentration:			**0.74**			
Client ID :	**RW8-MW01D1-20250319**								
Q1608-25	RW8-MW01D1-2025031	WATER	1,4-Dioxane	0.320		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.32**			

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Hit Summary Sheet
SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**0.32**			
Client ID :	**DUP09-20250319**								
Q1608-28	DUP09-20250319	WATER	1,4-Dioxane	0.720		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.72**			
			Total Concentration:			**0.72**			

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167232BL	PB167232BL	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
PB167232BS	PB167232BS	2-Methylnaphthalene-d10	0.4	0.43	107		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q1608-01	TT172S1-20250317	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.49	122		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1608-02	RE139D1-20250317	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q1608-03	RE139D2-20250317	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.46	116		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.44	110		58	132
Q1608-04	TT205S1-20250317	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.50	125		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.44	111	*	53	106
		Terphenyl-d14	0.4	0.48	120		58	132
Q1608-05	DUP07-20250317	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.47	118		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.50	124		58	132
Q1608-06	TT163S1-20250317	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
Q1608-07	RW11-MW01S-20250317	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.47	116		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q1608-08	RW11-MW01I-20250317	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q1608-09	GM38-RW3-MW1-20250318	2-Methylnaphthalene-d10	0.4	0.34	84		30	150

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Surrogate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1608-09	GM38-RW3-MW1-20250318	Fluoranthene-d10	0.4	0.50	124		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q1608-10	DUP08-20250318	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.27	68		55	111
		2-Fluorobiphenyl	0.4	0.28	71		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q1608-10DL	DUP08-20250318DL	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.27	68		55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q1608-11	RE132D1-20250318	2-Methylnaphthalene-d10	0.4	0.41	103		30	150
		Fluoranthene-d10	0.4	0.52	130		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.44	111		58	132
Q1608-12MS	RE132D1-20250318MS	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
Q1608-13MSD	RE132D1-20250318MSD	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.37	94		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
Q1608-14	RE132D2-20250318	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q1608-14DL	RE132D2-20250318DL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.28	71		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
Q1608-15	RE132D3-20250318	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.31	79		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q1608-15DL	RE132D3-20250318DL	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
Q1608-16	RE132D4-20250318	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.48	120		30	150

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1608-16	RE132D4-20250318	Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
Q1608-17	RE132D5-20250318	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.24	59		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
Q1608-17DL	RE132D5-20250318DL	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.24	60		55	111
		2-Fluorobiphenyl	0.4	0.25	62		53	106
		Terphenyl-d14	0.4	0.44	109		58	132
Q1608-18	RE132D6-20250318	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
Q1608-18DL	RE132D6-20250318DL	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
Q1608-19	RE132D7-20250318	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.27	68		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
Q1608-20	RE117D2-20250319	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.27	68		55	111
		2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.42	105		58	132

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Surrogate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167251BL	PB167251BL	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.31	76		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
PB167251BS	PB167251BS	2-Methylnaphthalene-d10	0.4	0.44	111		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
PB167251BSD	PB167251BSD	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
Q1608-21	TT101D2-20250319	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
Q1608-22	TT161S1-20250319	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.44	109		58	132
Q1608-23	TT189D2-20250319	2-Methylnaphthalene-d10	0.4	0.29	74		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
Q1608-23DL	TT189D2-20250319DL	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.37	92		58	132
Q1608-24	RW8-MW01S-20250319	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.40	101		58	132
Q1608-25	RW8-MW01D1-20250319	2-Methylnaphthalene-d10	0.4	0.37	92		30	150
		Fluoranthene-d10	0.4	0.47	117		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.38	96		58	132
Q1608-26	RW8-MW01D2-20250319	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.47	118		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
Q1608-27	RW8-MW01D3-20250319	2-Methylnaphthalene-d10	0.4	0.31	77		30	150

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Surrogate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1608-27	RW8-MW01D3-20250319	Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q1608-28	DUP09-20250319	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.41	103		58	132

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1608-12MS		**Client Sample ID:** RE132D1-20250318MS						**DataFile:** BN036766.D			
1,4-Dioxane	0.4	4.60	5.10	ug/L	125				70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1608-13MSD		**Client Sample ID:** RE132D1-20250318MSD						**DataFile:** BN036767.D			
1,4-Dioxane	0.4	4.60	5.00	ug/L	100		22	*	70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036754.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167232BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036787.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167251BS	1,4-Dioxane	0.4	0.34	ug/L	85				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1608

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036788.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167251BSD	1,4-Dioxane	0.4	0.34	ug/L	85	0			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167232BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

Lab File ID: BN036730.D Lab Sample ID: PB167232BL

Instrument ID: BNA_N Date Extracted: 03/20/2025

Matrix: (soil/water) Water Date Analyzed: 03/27/2025

Level: (low/med) LOW Time Analyzed: 10:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167232BS	PB167232BS	BN036754.D	03/28/2025
TT172S1-20250317	Q1608-01	BN036731.D	03/27/2025
RE139D1-20250317	Q1608-02	BN036732.D	03/27/2025
DUP07-20250317	Q1608-05	BN036783.D	03/28/2025
TT163S1-20250317	Q1608-06	BN036784.D	03/28/2025
RW11-MW01S-20250317	Q1608-07	BN036785.D	03/28/2025
RW11-MW01I-20250317	Q1608-08	BN036786.D	03/28/2025
RE139D2-20250317	Q1608-03	BN036745.D	03/27/2025
GM38-RW3-MW1-20250318	Q1608-09	BN036743.D	03/27/2025
DUP08-20250318	Q1608-10	BN036744.D	03/27/2025
TT205S1-20250317	Q1608-04	BN036746.D	03/27/2025
RE132D2-20250318	Q1608-14	BN036747.D	03/27/2025
RE132D3-20250318	Q1608-15	BN036748.D	03/27/2025
RE132D1-20250318	Q1608-11	BN036765.D	03/28/2025
RE132D1-20250318MS	Q1608-12MS	BN036766.D	03/28/2025
RE132D1-20250318MSD	Q1608-13MSD	BN036767.D	03/28/2025
RE132D4-20250318	Q1608-16	BN036749.D	03/27/2025
RE132D5-20250318	Q1608-17	BN036750.D	03/27/2025
RE132D6-20250318	Q1608-18	BN036751.D	03/27/2025
RE132D7-20250318	Q1608-19	BN036752.D	03/28/2025
RE117D2-20250319	Q1608-20	BN036753.D	03/28/2025

COMMENTS:

Form IV SV

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167251BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

Lab File ID: BN036739.D Lab Sample ID: PB167251BL

Instrument ID: BNA_N Date Extracted: 03/21/2025

Matrix: (soil/water) Water Date Analyzed: 03/27/2025

Level: (low/med) LOW Time Analyzed: 16:14

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167251BS	PB167251BS	BN036787.D	03/28/2025
PB167251BSD	PB167251BSD	BN036788.D	03/29/2025
RW8-MW01D3-20250319	Q1608-27	BN036781.D	03/28/2025
DUP09-20250319	Q1608-28	BN036782.D	03/28/2025
TT101D2-20250319	Q1608-21	BN036759.D	03/28/2025
TT161S1-20250319	Q1608-22	BN036760.D	03/28/2025
TT189D2-20250319	Q1608-23	BN036761.D	03/28/2025
RW8-MW01S-20250319	Q1608-24	BN036762.D	03/28/2025
RW8-MW01D1-20250319	Q1608-25	BN036763.D	03/28/2025
RW8-MW01D2-20250319	Q1608-26	BN036764.D	03/28/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1608 SDG NO.: Q1608

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
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: AECO15

Lab Code: CHEM SAS No.: Q1608 SDG NO.: Q1608

Lab File ID: BN036728.D DFTPP Injection Date: 03/27/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.4
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	56.4
70	Less than 2.0% of mass 69	0.8 (1.4) 1
127	10.0 - 80.0% of mass 198	52.6
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	6.6
275	10.0 - 60.0% of mass 198	24.3
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	7.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.3 (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	BN036729.D	03/27/2025	09:49
PB167232BL	PB167232BL	BN036730.D	03/27/2025	10:25
TT172S1-20250317	Q1608-01	BN036731.D	03/27/2025	11:01
RE139D1-20250317	Q1608-02	BN036732.D	03/27/2025	11:38
SSTDCCC0.4EC	SSTDCCC0.4	BN036736.D	03/27/2025	14:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1608 SDG NO.: Q1608

Lab File ID: BN036737.D DFTPP Injection Date: 03/27/2025

Instrument ID: BNA_N DFTPP Injection Time: 14:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	66.6
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	56.1
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	53
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.8 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036738.D	03/27/2025	15:38
PB167251BL	PB167251BL	BN036739.D	03/27/2025	16:14
GM38-RW3-MW1-20250318	Q1608-09	BN036743.D	03/27/2025	18:39
DUP08-20250318	Q1608-10	BN036744.D	03/27/2025	19:15
RE139D2-20250317	Q1608-03	BN036745.D	03/27/2025	19:51
TT205S1-20250317	Q1608-04	BN036746.D	03/27/2025	20:27
RE132D2-20250318	Q1608-14	BN036747.D	03/27/2025	21:03
RE132D3-20250318	Q1608-15	BN036748.D	03/27/2025	21:39
RE132D4-20250318	Q1608-16	BN036749.D	03/27/2025	22:15
RE132D5-20250318	Q1608-17	BN036750.D	03/27/2025	22:51
RE132D6-20250318	Q1608-18	BN036751.D	03/27/2025	23:27
RE132D7-20250318	Q1608-19	BN036752.D	03/28/2025	00:03
RE117D2-20250319	Q1608-20	BN036753.D	03/28/2025	00:39
PB167232BS	PB167232BS	BN036754.D	03/28/2025	01:16
SSTDCCC0.4EC	SSTDCCC0.4	BN036755.D	03/28/2025	01:52

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1608 SDG NO.: Q1608

Lab File ID: BN036756.D DFTPP Injection Date: 03/28/2025

Instrument ID: BNA_N DFTPP Injection Time: 03:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67
68	Less than 2.0% of mass 69	0.9 (1.5) 1
69	Mass 69 relative abundance	57.5
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.9
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	7.1
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (19.2) 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	BN036757.D	03/28/2025	03:46
TT101D2-20250319	Q1608-21	BN036759.D	03/28/2025	04:58
TT161S1-20250319	Q1608-22	BN036760.D	03/28/2025	05:34
TT189D2-20250319	Q1608-23	BN036761.D	03/28/2025	06:10
RW8-MW01S-20250319	Q1608-24	BN036762.D	03/28/2025	06:46
RW8-MW01D1-20250319	Q1608-25	BN036763.D	03/28/2025	07:22
RW8-MW01D2-20250319	Q1608-26	BN036764.D	03/28/2025	07:58
RE132D1-20250318	Q1608-11	BN036765.D	03/28/2025	08:34
RE132D1-20250318MS	Q1608-12MS	BN036766.D	03/28/2025	10:22
RE132D1-20250318MSD	Q1608-13MSD	BN036767.D	03/28/2025	10:58
SSTDCCC0.4EC	SSTDCCC0.4	BN036771.D	03/28/2025	13:58

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1608 SDG NO.: Q1608

Lab File ID: BN036772.D DFTPP Injection Date: 03/28/2025

Instrument ID: BNA_N DFTPP Injection Time: 14:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.1
68	Less than 2.0% of mass 69	0.3 (0.6) 1
69	Mass 69 relative abundance	57.8
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	53.7
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	7
275	10.0 - 60.0% of mass 198	25.2
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	9.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.6 (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	BN036773.D	03/28/2025	15:14
DUP08-20250318DL	Q1608-10DL	BN036775.D	03/28/2025	16:25
RE132D2-20250318DL	Q1608-14DL	BN036776.D	03/28/2025	17:02
RE132D3-20250318DL	Q1608-15DL	BN036777.D	03/28/2025	17:38
RE132D5-20250318DL	Q1608-17DL	BN036778.D	03/28/2025	18:14
RE132D6-20250318DL	Q1608-18DL	BN036779.D	03/28/2025	18:50
TT189D2-20250319DL	Q1608-23DL	BN036780.D	03/28/2025	19:26
RW8-MW01D3-20250319	Q1608-27	BN036781.D	03/28/2025	20:02
DUP09-20250319	Q1608-28	BN036782.D	03/28/2025	20:38
DUP07-20250317	Q1608-05	BN036783.D	03/28/2025	21:14
TT163S1-20250317	Q1608-06	BN036784.D	03/28/2025	21:51
RW11-MW01S-20250317	Q1608-07	BN036785.D	03/28/2025	22:26
RW11-MW01I-20250317	Q1608-08	BN036786.D	03/28/2025	23:02
PB167251BS	PB167251BS	BN036787.D	03/28/2025	23:38
PB167251BSD	PB167251BSD	BN036788.D	03/29/2025	00:14
SSTDCCC0.4EC	SSTDCCC0.4	BN036789.D	03/29/2025	00:50

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/27/2025

Lab File ID: BN036729.D Time Analyzed: 09:49

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	2892	7.703	7150	10.49	4255	14.35
	UPPER LIMIT	5784	8.203	14300	10.987	8510	14.845
	LOWER LIMIT	1446	7.203	3575	9.987	2127.5	13.845
	EPA SAMPLE NO.						
01	PB167232BL	2375	7.70	5327	10.49	2983	14.35
02	TT172S1-20250317	1886	7.70	4452	10.49	2731	14.35
03	RE139D1-20250317	1518	7.70	3632	10.49	2296	14.35

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.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/27/2025

Lab File ID: BN036729.D Time Analyzed: 09:49

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	8860	17.086	7759	21.277	6723	23.522
	UPPER LIMIT	17720	17.586	15518	21.777	13446	24.022
	LOWER LIMIT	4430	16.586	3879.5	20.777	3361.5	23.022
	EPA SAMPLE NO.						
01	PB167232BL	6223	17.09	4811	21.28	4142	23.53
02	TT172S1-20250317	5790	17.09	4693	21.28	3462	23.53
03	RE139D1-20250317	4907	17.09	4299	21.28	3740	23.53

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.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/27/2025

Lab File ID: BN036738.D Time Analyzed: 15:38

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	1523	7.703	3803	10.49	2348	14.35
	UPPER LIMIT	3046	8.203	7606	10.987	4696	14.845
	LOWER LIMIT	761.5	7.203	1901.5	9.987	1174	13.845
	EPA SAMPLE NO.						
01	PB167251BL	1359	7.70	2889	10.50	1699	14.36
02	RE139D2-20250317	1782	7.70	4096	10.49	2547	14.35
03	TT205S1-20250317	1291	7.70	3205	10.49	2003	14.35
04	GM38-RW3-MW1-20250318	1616	7.70	3792	10.49	2336	14.35
05	DUP08-20250318	1495	7.70	3627	10.49	2226	14.35
06	RE132D2-20250318	1503	7.70	3626	10.49	2260	14.35
07	RE132D3-20250318	1486	7.70	3645	10.49	2300	14.35
08	PB167232BS	1547	7.70	3543	10.49	1990	14.35
09	RE132D4-20250318	1863	7.70	4600	10.49	2953	14.33
10	RE132D5-20250318	1585	7.70	3885	10.49	2369	14.35
11	RE132D6-20250318	1580	7.70	3758	10.49	2377	14.35
12	RE132D7-20250318	1467	7.70	3369	10.50	2179	14.35
13	RE117D2-20250319	1517	7.70	3430	10.50	2301	14.35

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.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/27/2025

Lab File ID: BN036738.D Time Analyzed: 15:38

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	4989	17.086	4385	21.277	4045	23.525
	UPPER LIMIT	9978	17.586	8770	21.777	8090	24.025
	LOWER LIMIT	2494.5	16.586	2192.5	20.777	2022.5	23.025
	EPA SAMPLE NO.						
01	PB167251BL	3701	17.10	3168	21.29	2693	23.53
02	RE139D2-20250317	5581	17.09	4807	21.28	4214	23.53
03	TT205S1-20250317	4493	17.09	3924	21.28	3555	23.52
04	GM38-RW3-MW1-20250318	5096	17.09	4215	21.28	3687	23.52
05	DUP08-20250318	5166	17.09	4662	21.28	4214	23.52
06	RE132D2-20250318	5080	17.09	4409	21.28	3909	23.52
07	RE132D3-20250318	5196	17.09	4674	21.28	4006	23.53
08	PB167232BS	4558	17.09	3774	21.28	3342	23.52
09	RE132D4-20250318	6367	17.09	5663	21.28	4996	23.52
10	RE132D5-20250318	5421	17.09	4977	21.28	4460	23.52
11	RE132D6-20250318	5303	17.09	4607	21.28	3992	23.52
12	RE132D7-20250318	4845	17.09	4336	21.28	3908	23.53
13	RE117D2-20250319	4871	17.09	4219	21.28	3720	23.52

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.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036757.D Time Analyzed: 03:46

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	1974	7.703	4607	10.49	2750	14.33
	UPPER LIMIT	3948	8.203	9214	10.988	5500	14.834
	LOWER LIMIT	987	7.203	2303.5	9.988	1375	13.834
	EPA SAMPLE NO.						
01	TT101D2-20250319	1526	7.70	3415	10.50	2100	14.35
02	TT161S1-20250319	1354	7.70	3227	10.49	2069	14.35
03	TT189D2-20250319	1268	7.70	2959	10.49	1903	14.35
04	RW8-MW01S-20250319	1717	7.70	3891	10.49	2454	14.35
05	RW8-MW01D1-20250319	1286	7.70	2922	10.50	1856	14.35
06	RW8-MW01D2-20250319	1275	7.70	2834	10.50	1829	14.35
07	RE132D1-20250318	1105	7.70	2727	10.49	1743	14.33
08	RE132D1-20250318MS	1719	7.70	4220	10.49	2547	14.33
09	RE132D1-20250318MSD	1372	7.70	3404	10.49	2163	14.33

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.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036757.D Time Analyzed: 03:46

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	5937	17.087	5680	21.277	5140		23.519
	UPPER LIMIT	11874	17.587	11360	21.777	10280		24.019
	LOWER LIMIT	2968.5	16.587	2840	20.777	2570		23.019
	EPA SAMPLE NO.							
01	TT101D2-20250319	4518	17.09	3643	21.28	3268		23.52
02	TT161S1-20250319	4501	17.09	3749	21.28	3365		23.52
03	TT189D2-20250319	4076	17.09	3929	21.28	3627		23.52
04	RW8-MW01S-20250319	5265	17.09	4302	21.28	3816		23.53
05	RW8-MW01D1-20250319	4045	17.09	3693	21.28	3430		23.53
06	RW8-MW01D2-20250319	4015	17.10	3603	21.28	2549	*	23.53
07	RE132D1-20250318	3887	17.09	3482	21.28	3032		23.52
08	RE132D1-20250318MS	5464	17.09	5031	21.28	4284		23.52
09	RE132D1-20250318MSD	4733	17.09	4518	21.28	3998		23.52

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.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036773.D Time Analyzed: 15:14

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	1368	7.695	3508	10.49	2285	14.33
	UPPER LIMIT	2736	8.195	7016	10.987	4570	14.834
	LOWER LIMIT	684	7.195	1754	9.987	1142.5	13.834
	EPA SAMPLE NO.						
01	DUP07-20250317	1407	7.70	3532	10.49	2299	14.33
02	TT163S1-20250317	1736	7.70	4215	10.49	2595	14.33
03	RW11-MW01S-20250317	1339	7.70	3438	10.49	2108	14.33
04	RW11-MW01I-20250317	1258	7.70	3175	10.49	2022	14.33
05	DUP09-20250319	1404	7.70	3144	10.49	2055	14.35
06	DUP08-20250318DL	1382	7.70	3369	10.49	2315	14.33
07	RE132D2-20250318DL	1407	7.70	3418	10.49	2412	14.33
08	RE132D3-20250318DL	1524	7.70	3591	10.49	2164	14.33
09	RE132D5-20250318DL	1470	7.70	3305	10.49	2288	14.33
10	RE132D6-20250318DL	1528	7.70	3509	10.49	2347	14.35
11	TT189D2-20250319DL	1210	7.70	2842	10.49	1908	14.35
12	RW8-MW01D3-20250319	1632	7.70	3714	10.49	2302	14.33
13	PB167251BS	1517	7.70	3731	10.49	2164	14.33
14	PB167251BSD	1495	7.70	3562	10.49	2075	14.33

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.: Q1608 SAS No.: Q1608 SDG NO.: Q1608

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036773.D Time Analyzed: 15:14

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	4820	17.086	4311	21.277	3840	23.519
	UPPER LIMIT	9640	17.586	8622	21.777	7680	24.019
	LOWER LIMIT	2410	16.586	2155.5	20.777	1920	23.019
	EPA SAMPLE NO.						
01	DUP07-20250317	4965	17.09	4273	21.28	3489	23.52
02	TT163S1-20250317	5466	17.09	4415	21.28	3766	23.52
03	RW11-MW01S-20250317	4716	17.09	3918	21.28	3294	23.52
04	RW11-MW01I-20250317	4337	17.09	3802	21.28	3357	23.52
05	DUP09-20250319	4548	17.09	3753	21.28	3299	23.52
06	DUP08-20250318DL	5117	17.09	4327	21.28	3811	23.52
07	RE132D2-20250318DL	5434	17.09	4284	21.28	3735	23.52
08	RE132D3-20250318DL	5035	17.09	3983	21.28	3471	23.52
09	RE132D5-20250318DL	5170	17.09	4192	21.28	3839	23.52
10	RE132D6-20250318DL	5155	17.09	4127	21.28	3575	23.52
11	TT189D2-20250319DL	4326	17.09	3875	21.28	3351	23.52
12	RW8-MW01D3-20250319	5150	17.09	4271	21.28	3690	23.52
13	PB167251BS	4675	17.09	3635	21.28	3061	23.52
14	PB167251BSD	4531	17.09	3571	21.28	3214	23.51

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:	AECOM Technical Services, Inc.	Date Collected:	03/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	TT172S1-20250317	SDG No.:	Q1608
Lab Sample ID:	Q1608-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036731.D	1	03/20/25 10:49	03/27/25 11:01	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.60		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		122%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1890	7.703				
1146-65-2	Naphthalene-d8	4450	10.487				
15067-26-2	Acenaphthene-d10	2730	14.345				
1517-22-2	Phenanthrene-d10	5790	17.086				
1719-03-5	Chrysene-d12	4690	21.277				
1520-96-3	Perylene-d12	3460	23.525				

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\BN032725\
Data File : BN036731.D
Acq On : 27 Mar 2025 11:01
Operator : RC/JU
Sample : Q1608-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Quant Time: Mar 27 11:56:16 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

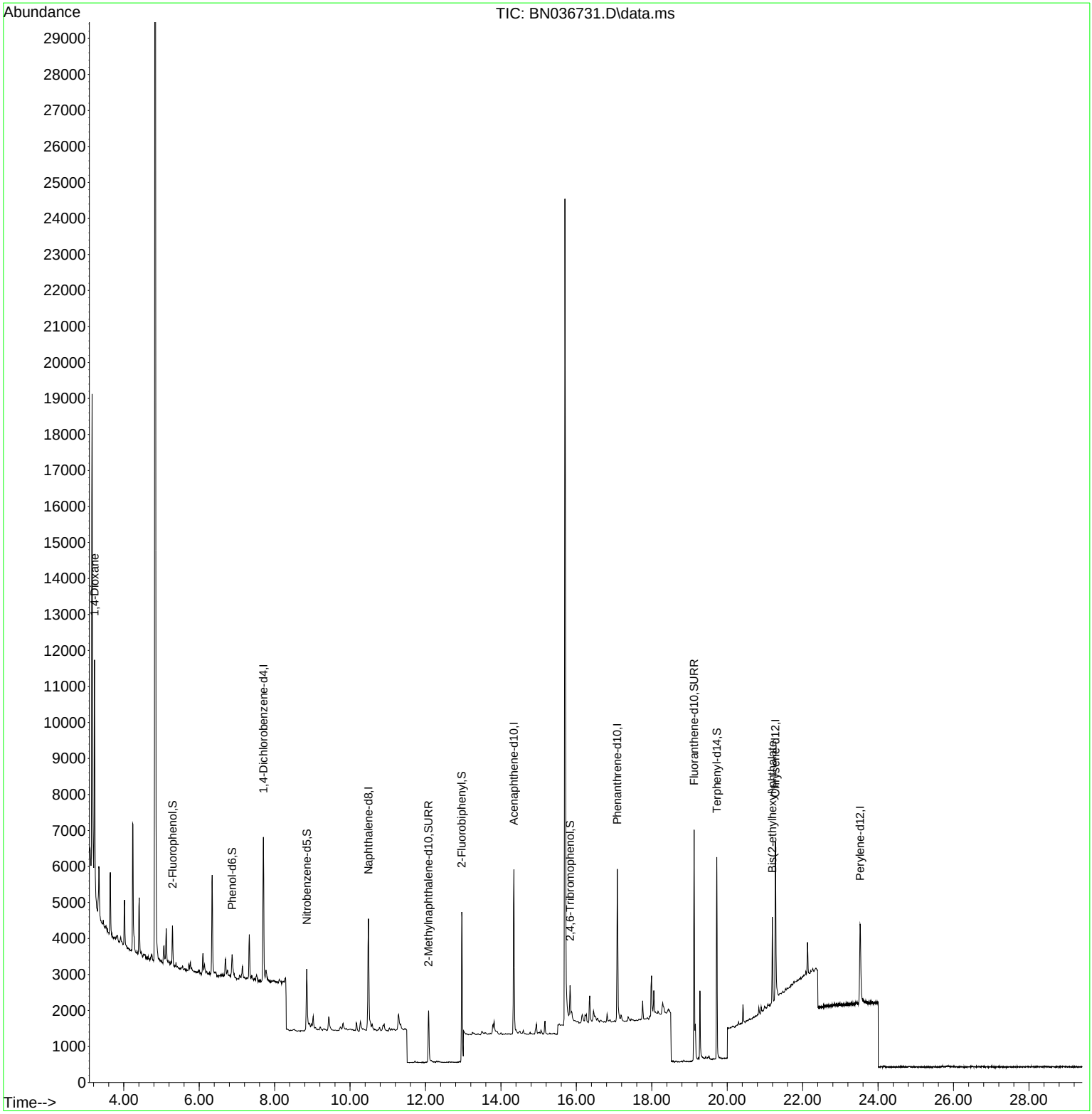
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1886	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	4452	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2731	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5790	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4693	0.400	ng	-0.02
35) Perylene-d12	23.525	264	3462	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	775	0.176	ng	-0.01
5) Phenol-d6	6.872	99	497	0.092	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1595	0.329	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2218	0.335	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	528	0.426	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5484	0.345	ng	-0.03
27) Fluoranthene-d10	19.122	212	7230	0.487	ng	-0.02
31) Terphenyl-d14	19.722	244	5293	0.471	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	3380	1.616	ng	# 92
34) Bis(2-ethylhexyl)phtha...	21.196	149	2321	0.200	ng	# 96

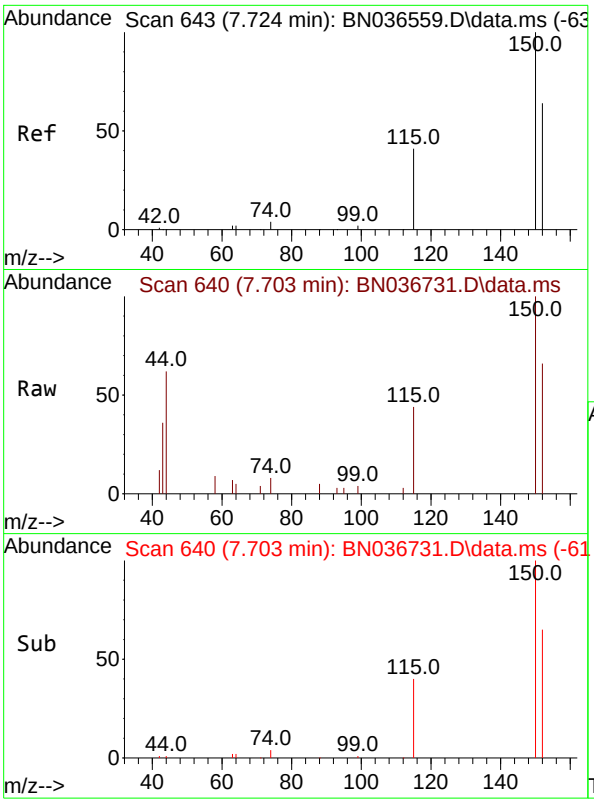
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036731.D
Acq On : 27 Mar 2025 11:01
Operator : RC/JU
Sample : Q1608-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Quant Time: Mar 27 11:56:16 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



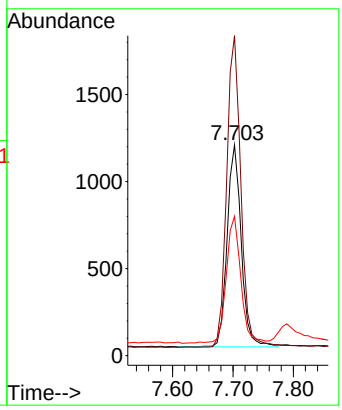


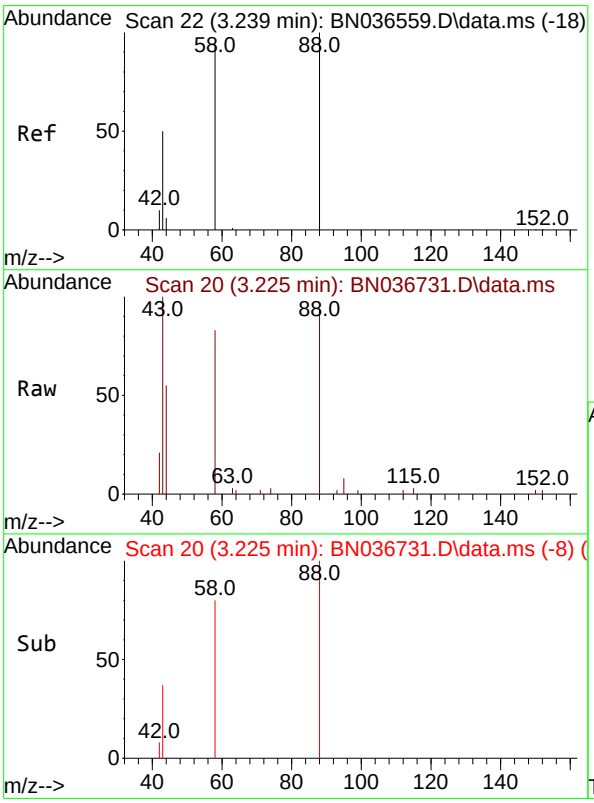
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Tgt Ion:152 Resp: 1886

Ion	Ratio	Lower	Upper
152	100		
150	151.9	123.7	185.5
115	66.2	54.3	81.5

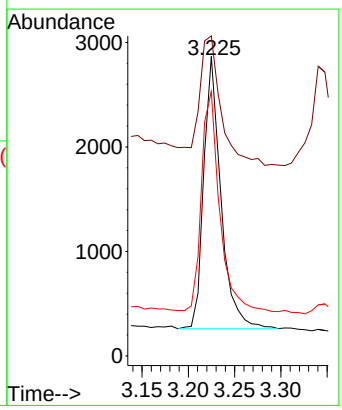


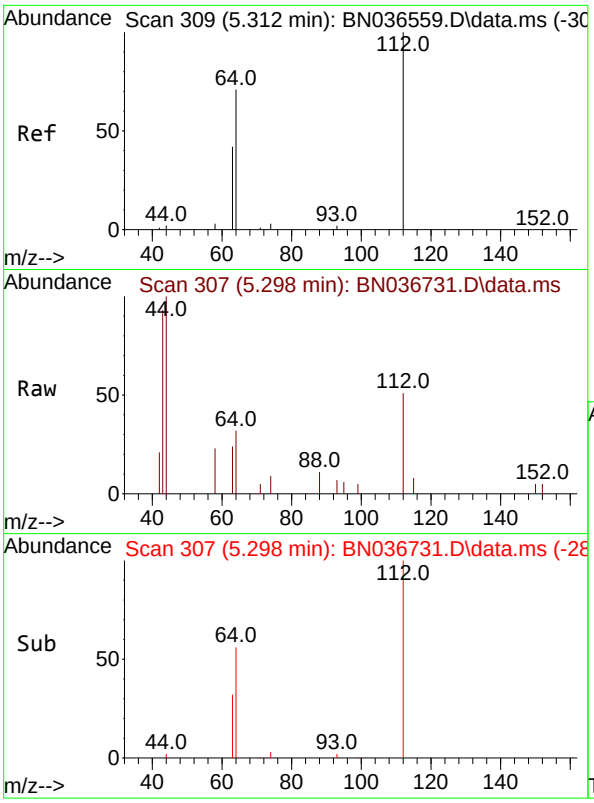


#2
1,4-Dioxane
Concen: 1.616 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Tgt Ion: 88 Resp: 3380

Ion	Ratio	Lower	Upper
88	100		
43	60.8	37.8	56.8#
58	85.3	67.4	101.2



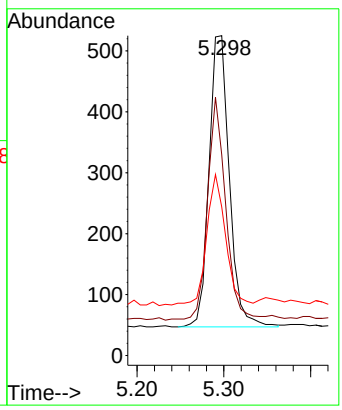


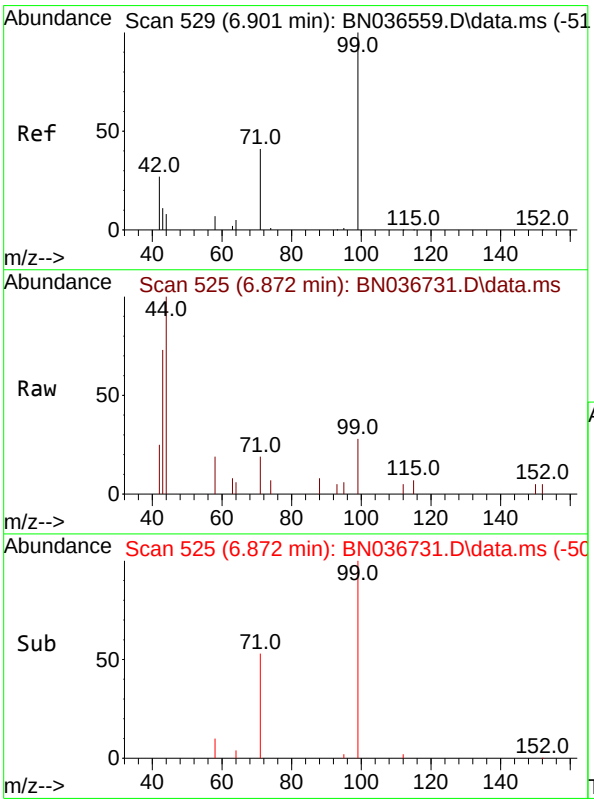
#4
2-Fluorophenol
Concen: 0.176 ng
RT: 5.298 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Tgt Ion:112 Resp: 775

Ion	Ratio	Lower	Upper
112	100		
64	66.7	53.1	79.7
63	43.1	31.8	47.8

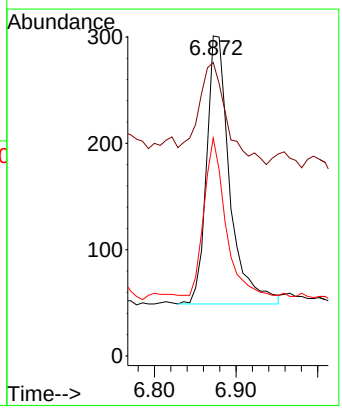


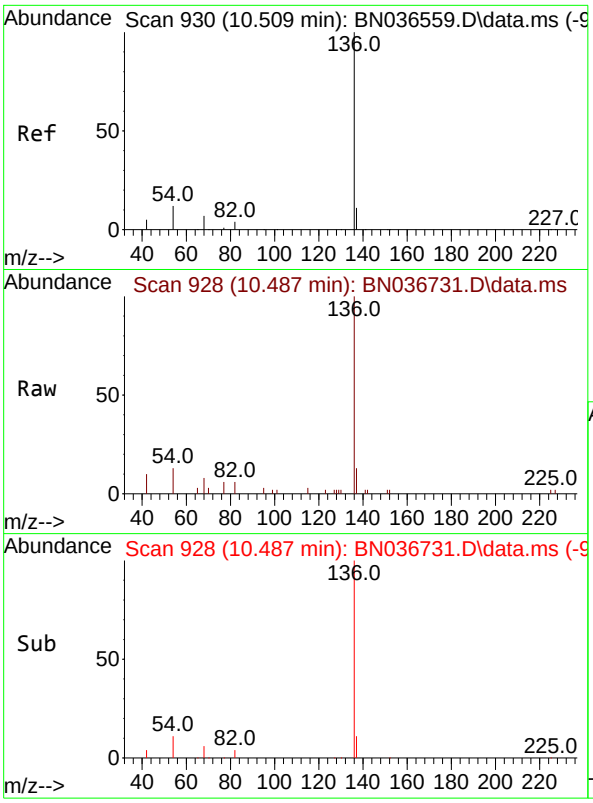


#5
Phenol-d6
Concen: 0.092 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Tgt Ion: 99 Resp: 497

Ion	Ratio	Lower	Upper
99	100		
42	47.7	26.5	39.7#
71	54.9	34.1	51.1#



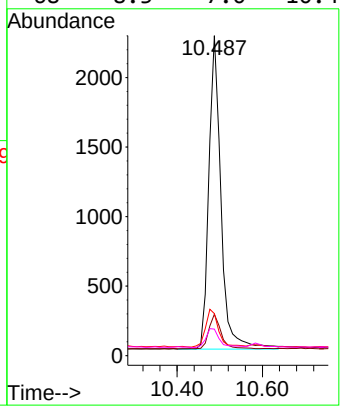


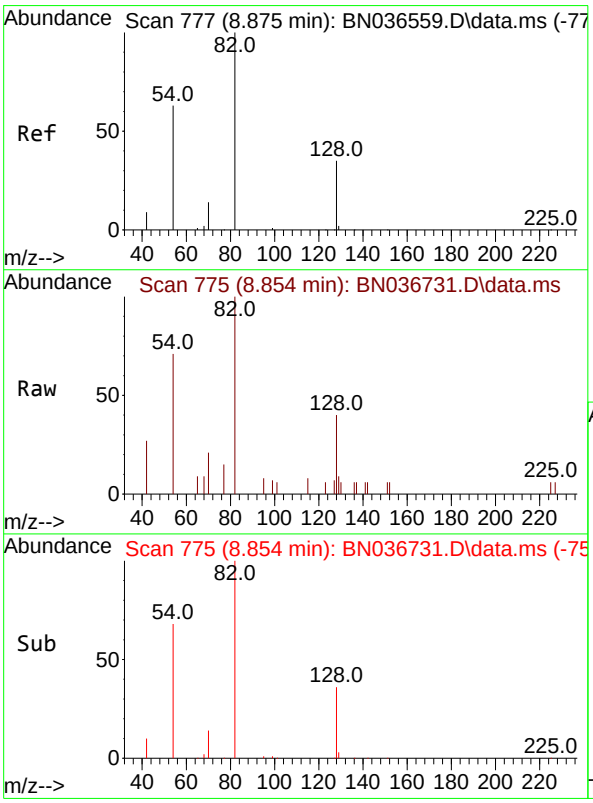
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Tgt Ion:136 Resp: 4452

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	13.2	11.5	17.3
68	8.3	7.0	10.4

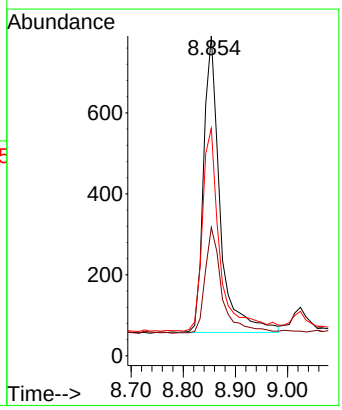


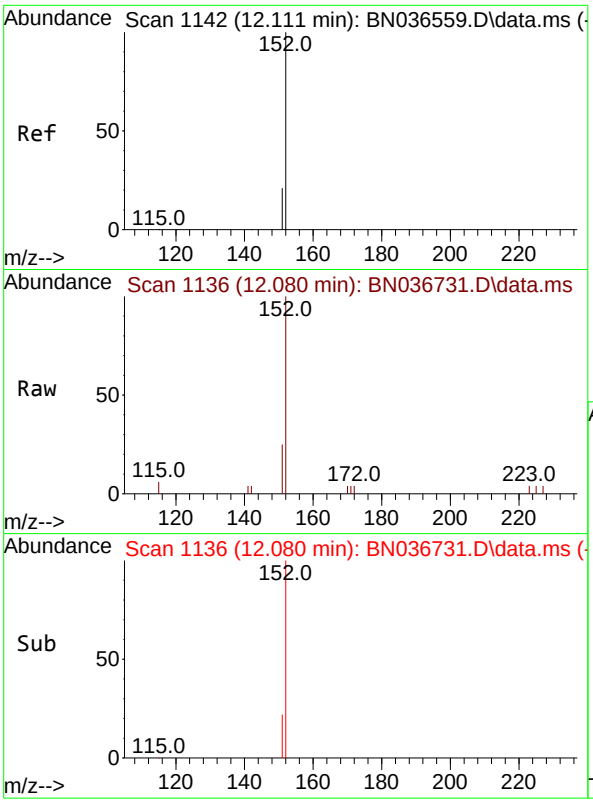


#8
Nitrobenzene-d5
Concen: 0.329 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Tgt Ion: 82 Resp: 1595

Ion	Ratio	Lower	Upper
82	100		
128	40.1	30.6	45.8
54	71.1	52.2	78.4



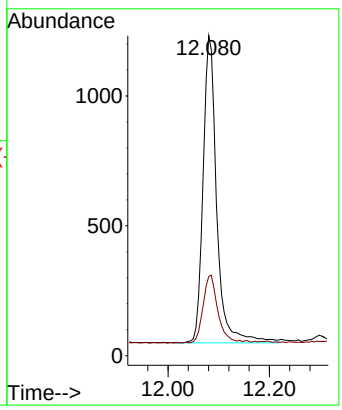


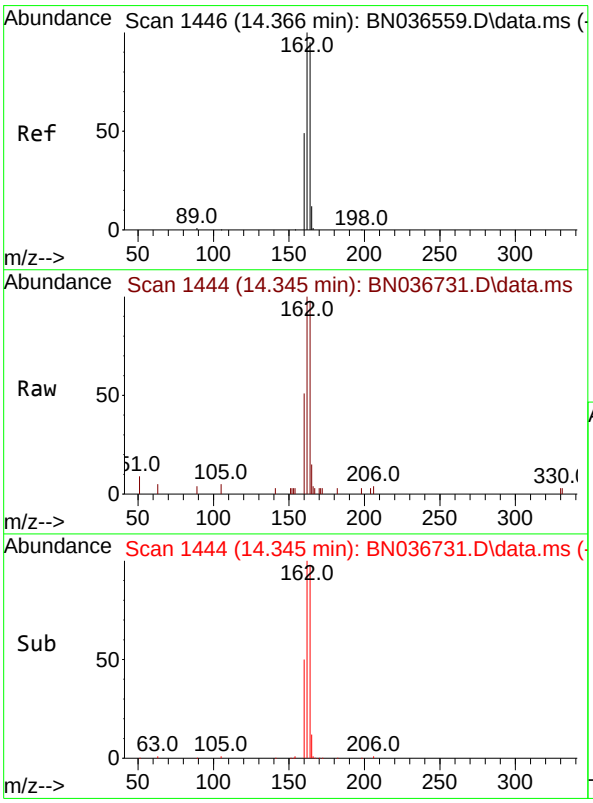
#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Tgt Ion:152 Resp: 2218

Ion	Ratio	Lower	Upper
152	100		
151	24.1	17.0	25.6

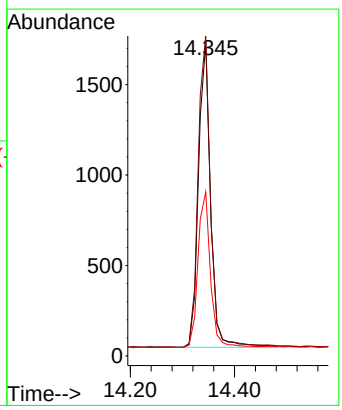


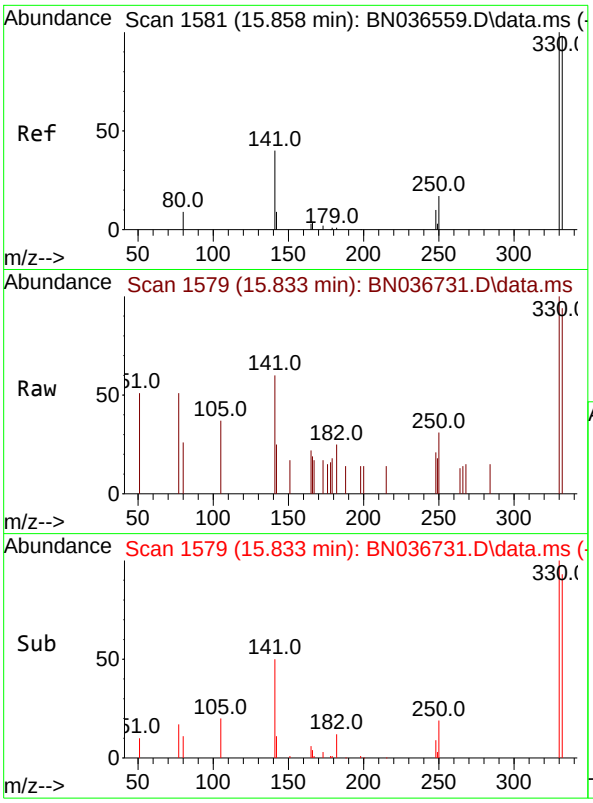


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Tgt Ion:164 Resp: 2731

Ion	Ratio	Lower	Upper
164	100		
162	102.1	84.2	126.2
160	52.3	42.2	63.2



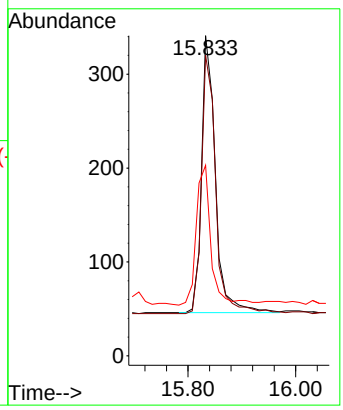


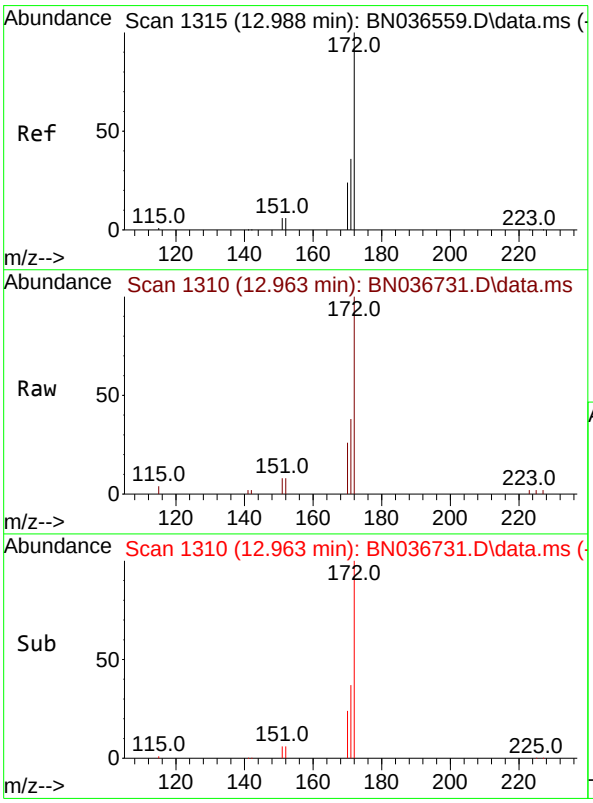
#14
2,4,6-Tribromophenol
Concen: 0.426 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Tgt Ion:330 Resp: 528

Ion	Ratio	Lower	Upper
330	100		
332	96.4	75.2	112.8
141	54.2	43.4	65.2

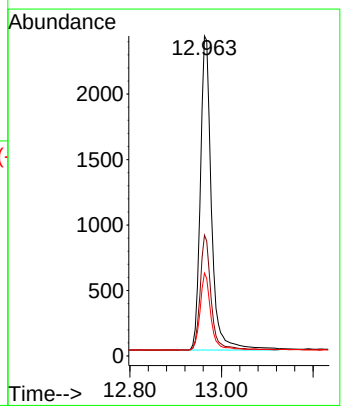


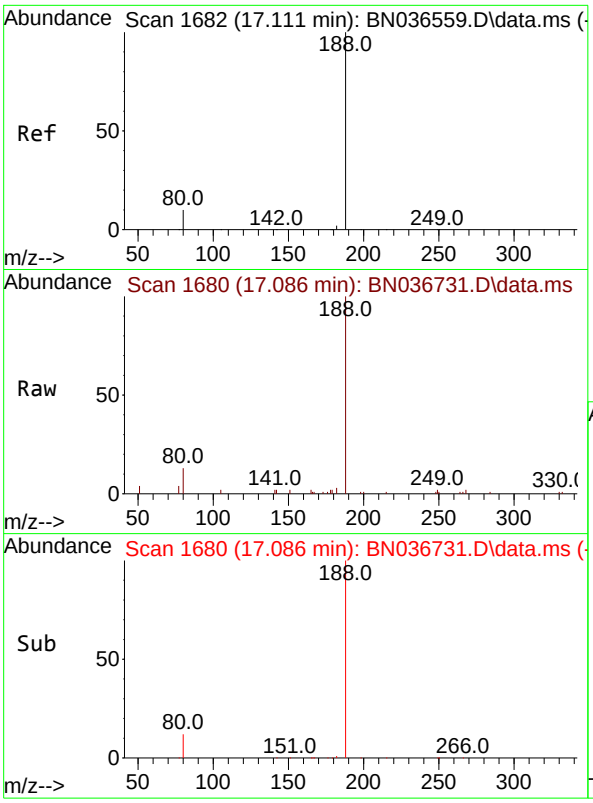


#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Tgt Ion:172 Resp: 5484

Ion	Ratio	Lower	Upper
172	100		
171	37.8	29.5	44.3
170	25.9	20.2	30.4



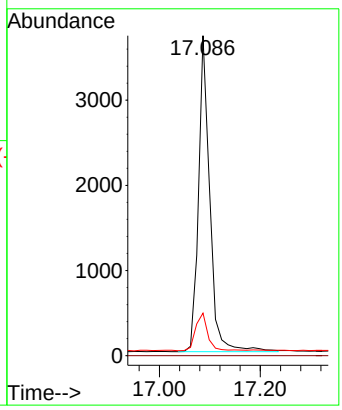


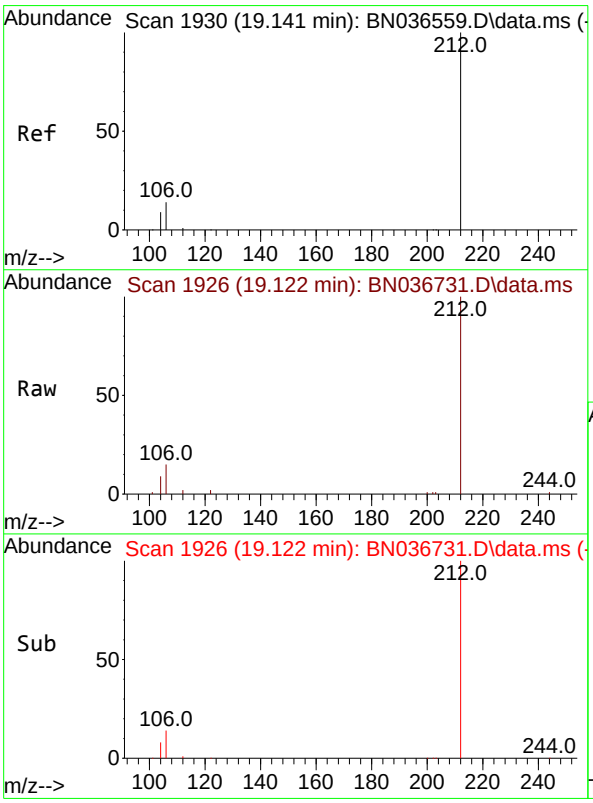
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Tgt Ion:188 Resp: 5790

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.3	8.8	13.2#

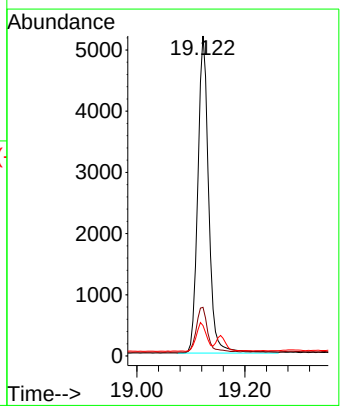


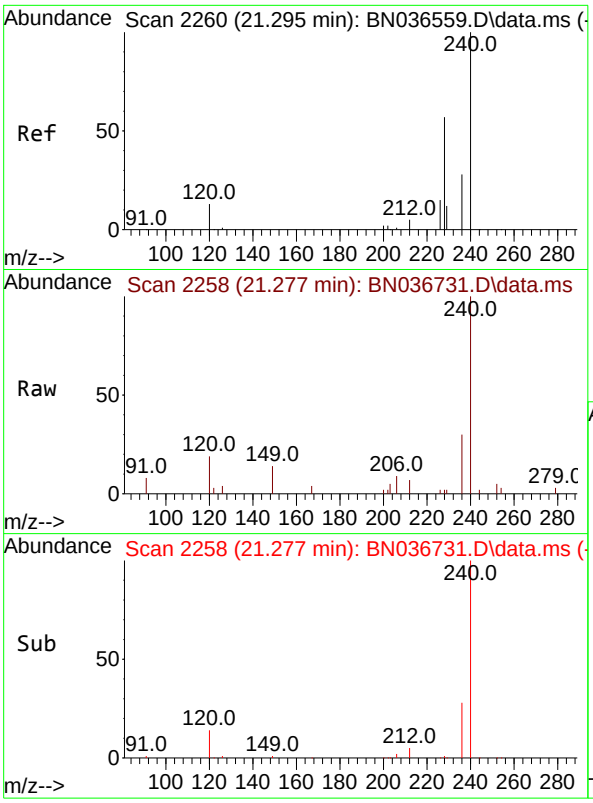


#27
Fluoranthene-d10
Concen: 0.487 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.019 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Tgt Ion:212 Resp: 7230

Ion	Ratio	Lower	Upper
212	100		
106	14.9	11.8	17.6
104	8.7	7.3	10.9



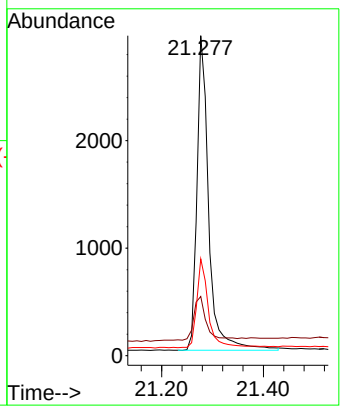


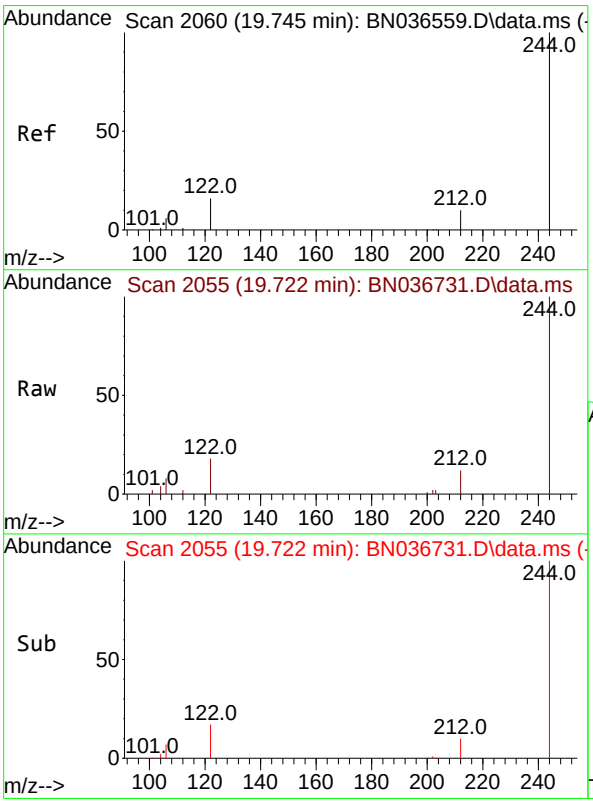
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Tgt Ion:240 Resp: 4693

Ion	Ratio	Lower	Upper
240	100		
120	18.5	14.6	22.0
236	30.2	24.1	36.1

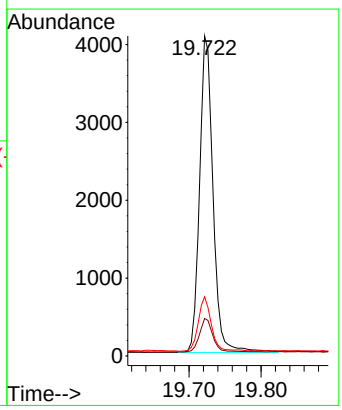


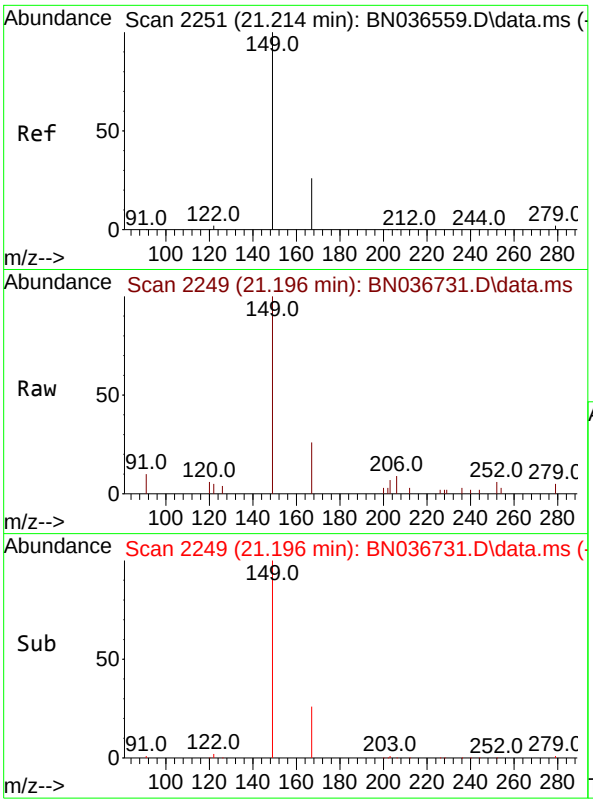


#31
Terphenyl-d14
Concen: 0.471 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Tgt Ion:244 Resp: 5293

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	18.5	13.9	20.9



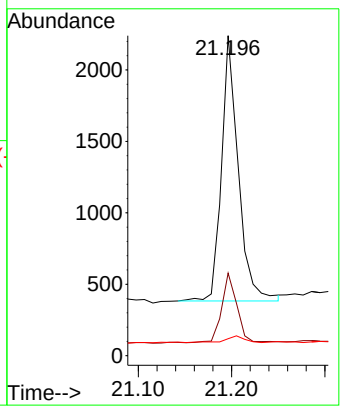


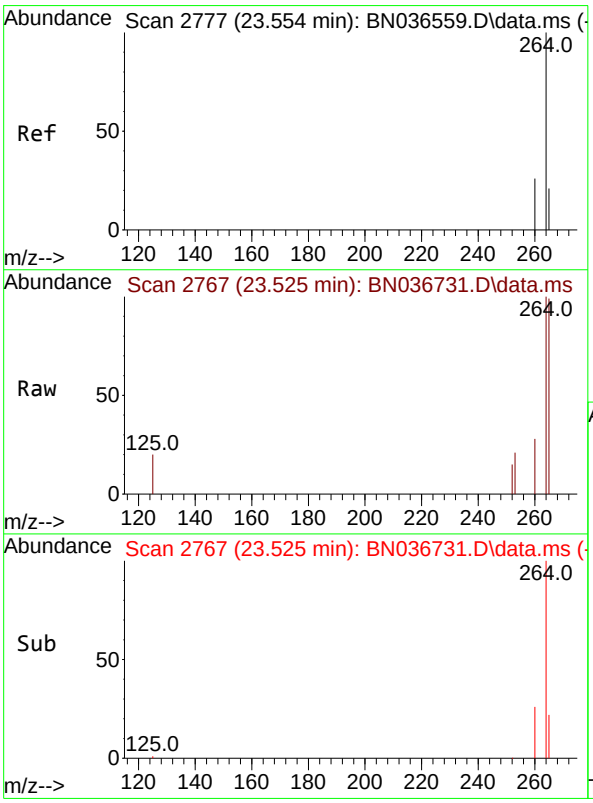
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.200 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250317

Tgt Ion:149 Resp: 2321

Ion	Ratio	Lower	Upper
149	100		
167	23.9	20.7	31.1
279	2.8	3.6	5.4#

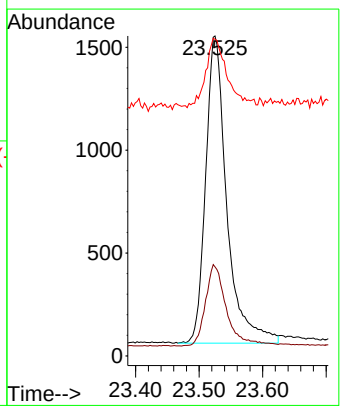




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2767
Delta R.T. -0.029 min
Lab File: BN036731.D
Acq: 27 Mar 2025 11:01

Tgt Ion:264 Resp: 3462

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	99.0	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:	AECOM Technical Services, Inc.	Date Collected:	03/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE139D1-20250317	SDG No.:	Q1608
Lab Sample ID:	Q1608-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036732.D	1	03/20/25 10:49	03/27/25 11:38	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.90		0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1520	7.703				
1146-65-2	Naphthalene-d8	3630	10.488				
15067-26-2	Acenaphthene-d10	2300	14.345				
1517-22-2	Phenanthrene-d10	4910	17.087				
1719-03-5	Chrysene-d12	4300	21.277				
1520-96-3	Perylene-d12	3740	23.525				

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\BN032725\
Data File : BN036732.D
Acq On : 27 Mar 2025 11:38
Operator : RC/JU
Sample : Q1608-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Quant Time: Mar 27 12:16:18 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

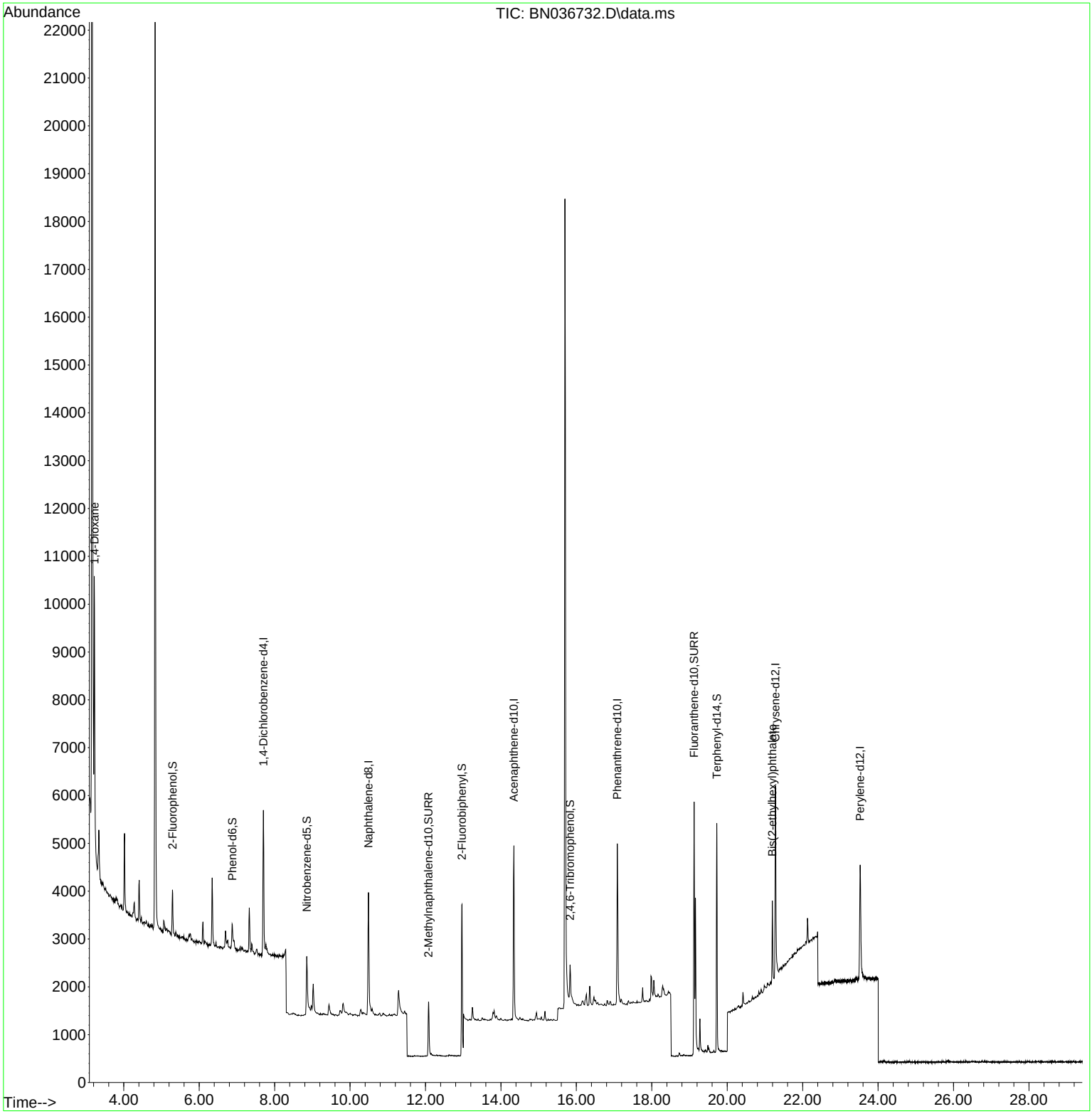
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1518	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	3632	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2296	0.400	ng	-0.02
19) Phenanthrene-d10	17.087	188	4907	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4299	0.400	ng	-0.02
35) Perylene-d12	23.525	264	3740	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	689	0.195	ng	-0.01
5) Phenol-d6	6.879	99	455	0.104	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1300	0.329	ng	-0.02
11) 2-Methylnaphthalene-d10	12.081	152	1797	0.333	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	457	0.439	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	4380	0.328	ng	-0.02
27) Fluoranthene-d10	19.123	212	6181	0.491	ng	-0.02
31) Terphenyl-d14	19.722	244	4618	0.448	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	2953	1.754	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.196	149	1724	0.162	ng	# 94

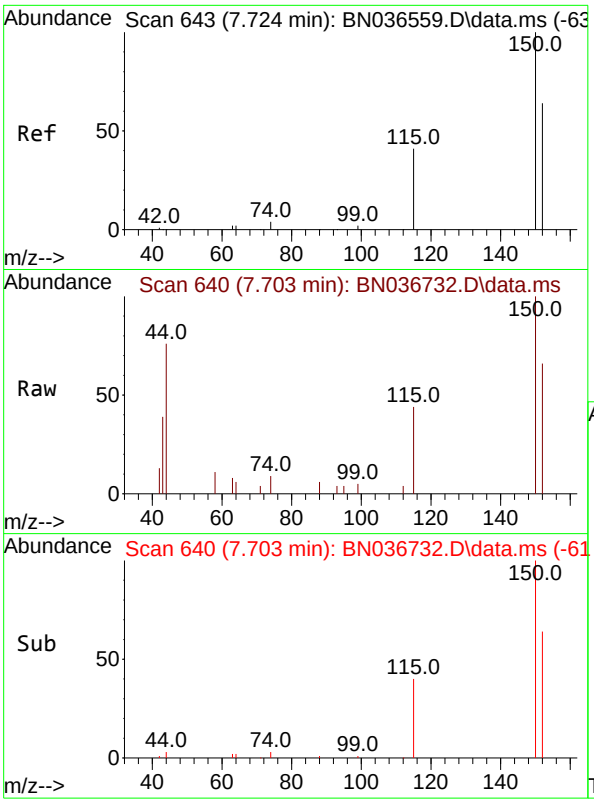
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036732.D
Acq On : 27 Mar 2025 11:38
Operator : RC/JU
Sample : Q1608-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Quant Time: Mar 27 12:16:18 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



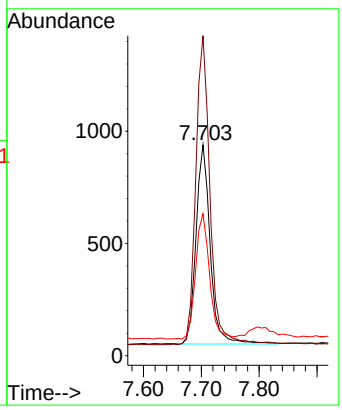


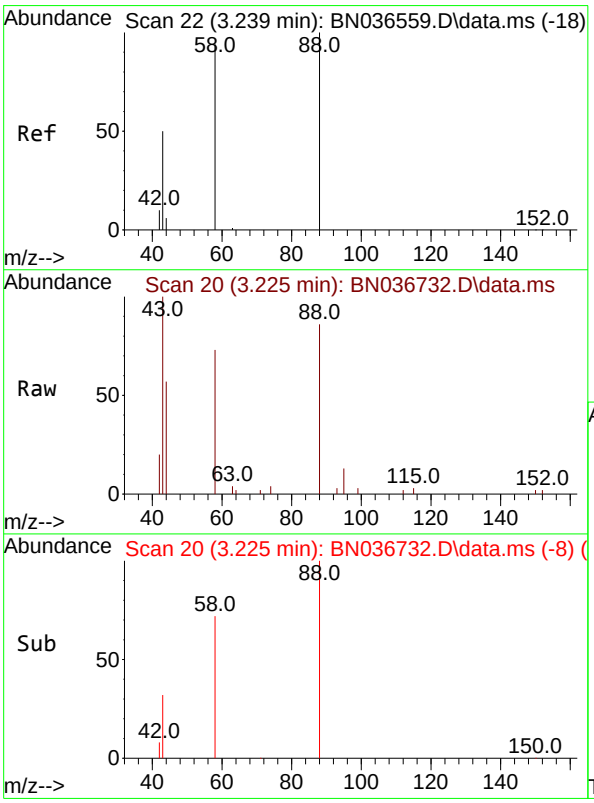
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Tgt Ion:152 Resp: 1518

Ion	Ratio	Lower	Upper
152	100		
150	151.7	123.7	185.5
115	67.2	54.3	81.5

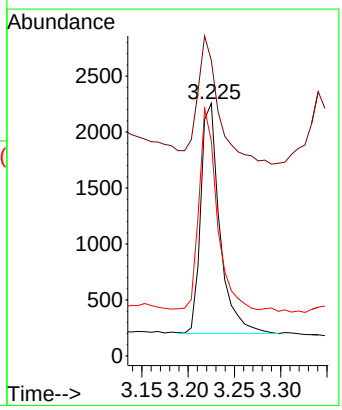


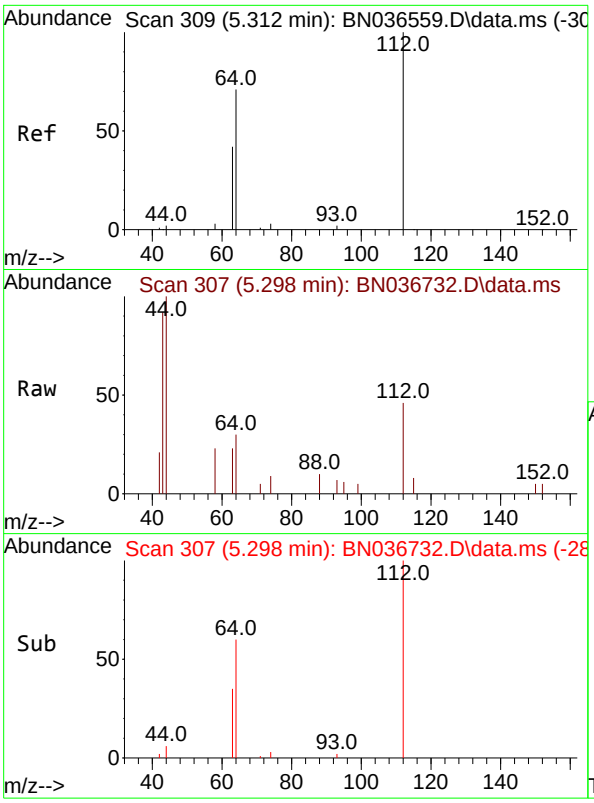


#2
1,4-Dioxane
Concen: 1.754 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Tgt Ion: 88 Resp: 2953

Ion	Ratio	Lower	Upper
88	100		
43	61.2	37.8	56.8#
58	86.4	67.4	101.2



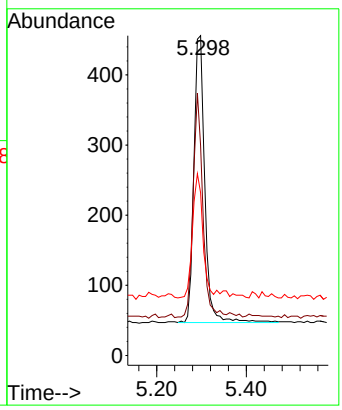


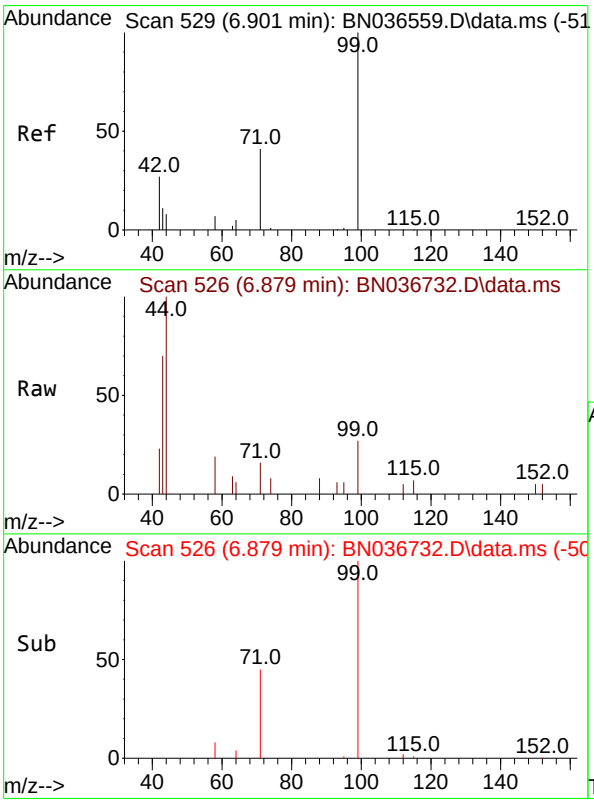
#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.298 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Tgt Ion:112 Resp: 689

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	40.6	31.8	47.8

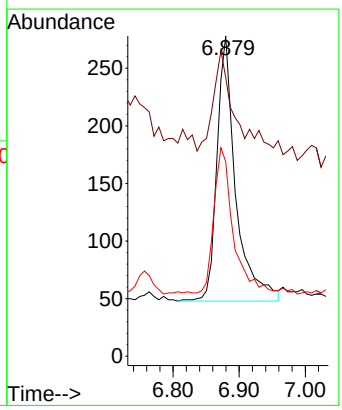


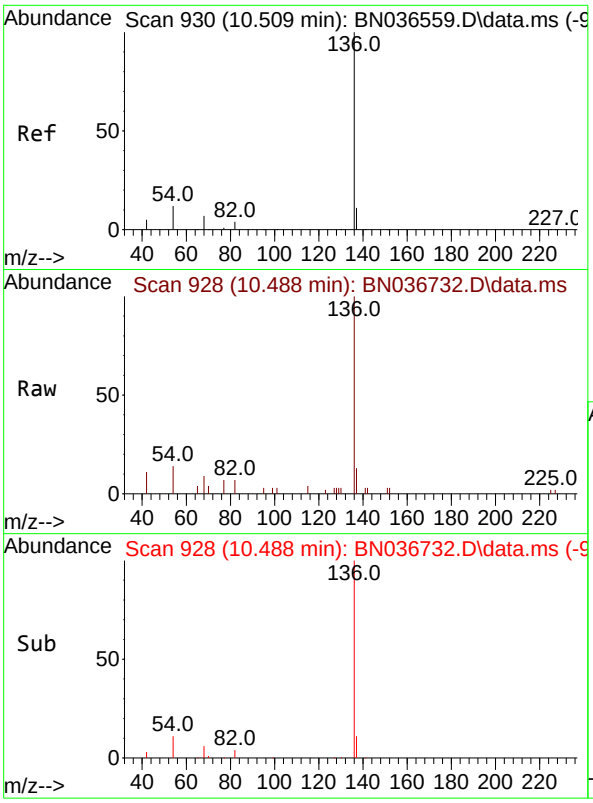


#5
Phenol-d6
Concen: 0.104 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.021 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Tgt Ion: 99 Resp: 455

Ion	Ratio	Lower	Upper
99	100		
42	57.1	26.5	39.7#
71	55.4	34.1	51.1#



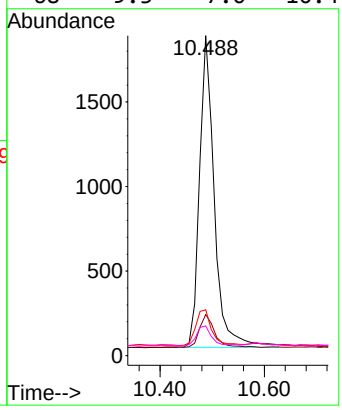


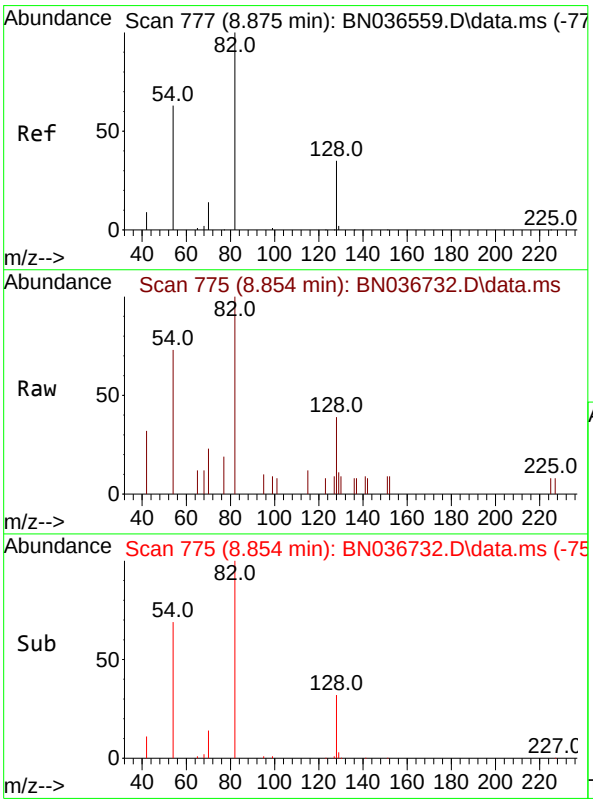
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Tgt Ion:136 Resp: 3632

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	14.3	11.5	17.3
68	9.3	7.0	10.4

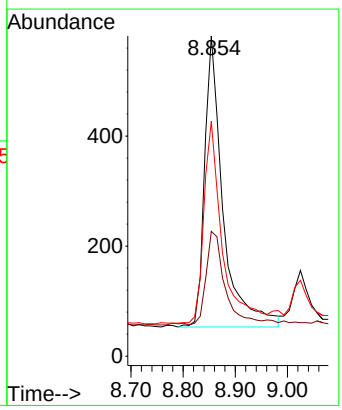


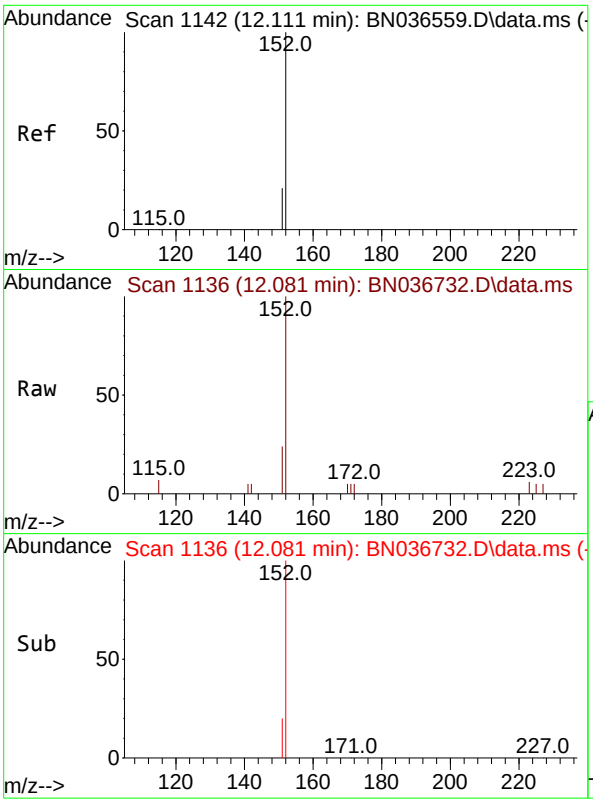


#8
Nitrobenzene-d5
Concen: 0.329 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Tgt Ion: 82 Resp: 1300

Ion	Ratio	Lower	Upper
82	100		
128	39.0	30.6	45.8
54	73.4	52.2	78.4



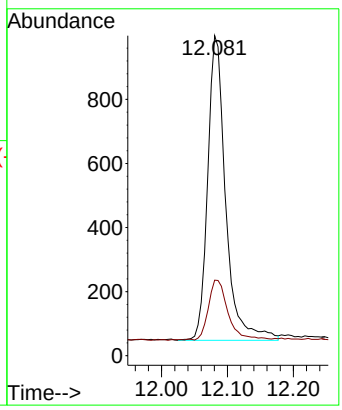


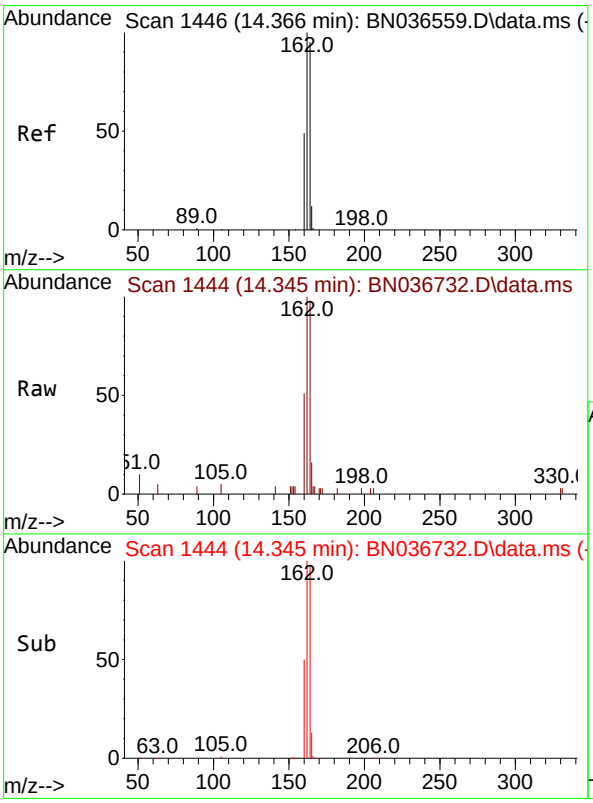
#11
2-Methylnaphthalene-d10
Concen: 0.333 ng
RT: 12.081 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Tgt Ion:152 Resp: 1797

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

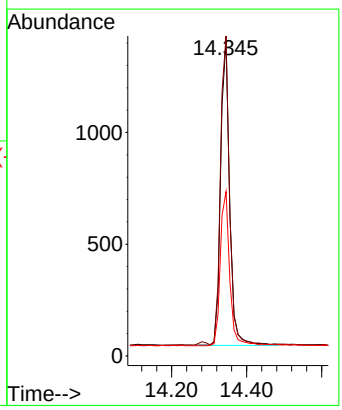


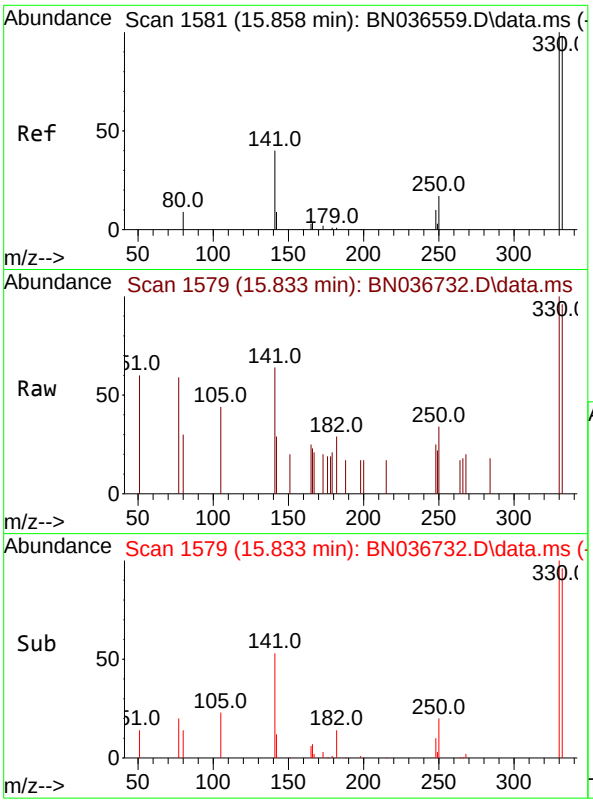


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Tgt Ion:164 Resp: 2296

Ion	Ratio	Lower	Upper
164	100		
162	101.6	84.2	126.2
160	52.1	42.2	63.2



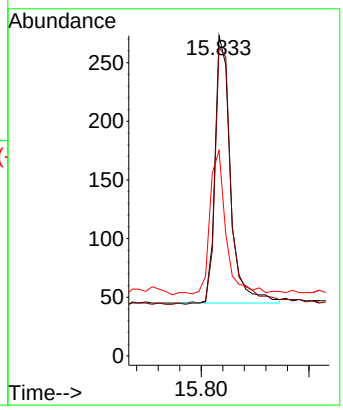


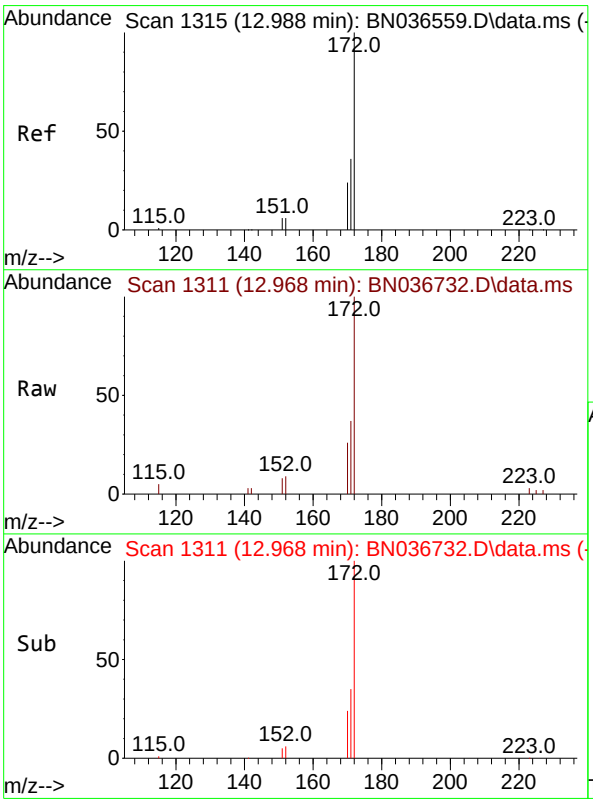
#14
2,4,6-Tribromophenol
Concen: 0.439 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Tgt Ion:330 Resp: 457

Ion	Ratio	Lower	Upper
330	100		
332	102.4	75.2	112.8
141	52.3	43.4	65.2

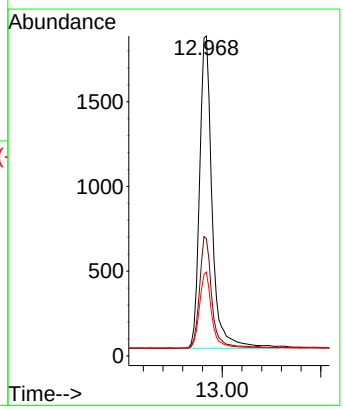


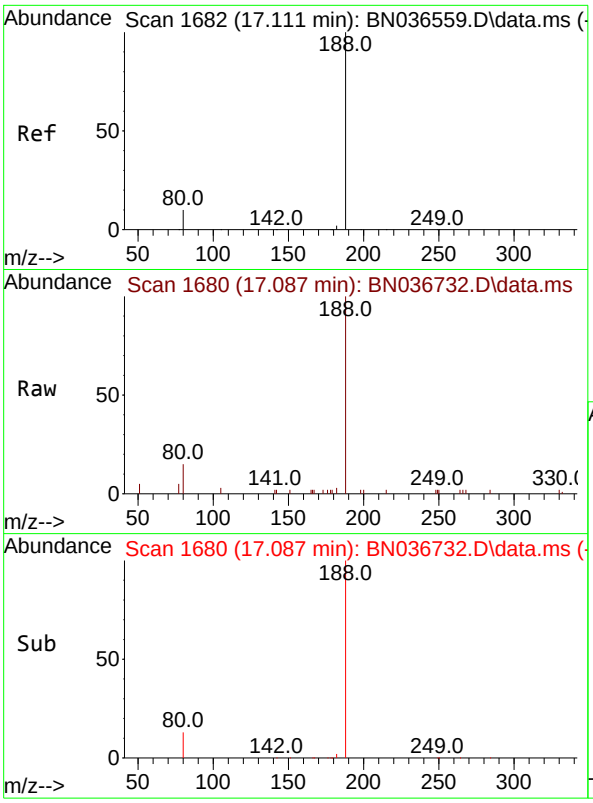


#15
2-Fluorobiphenyl
Concen: 0.328 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Tgt Ion:172 Resp: 4380

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.5	44.3
170	26.2	20.2	30.4



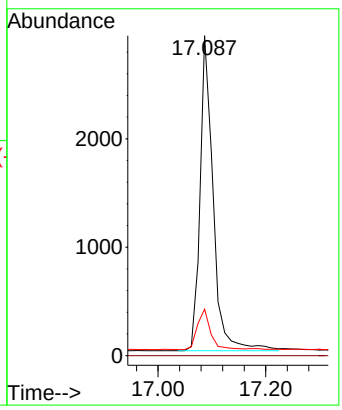


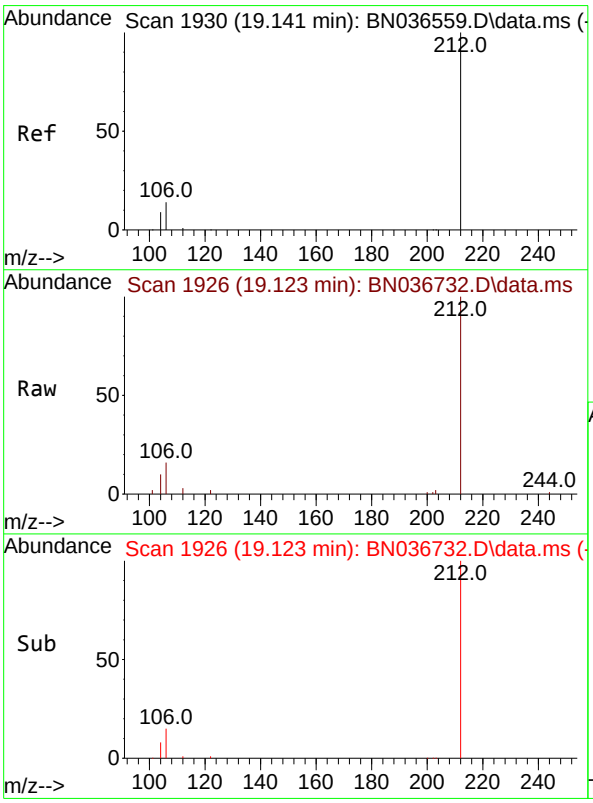
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Tgt Ion:188 Resp: 4907

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	8.8	13.2#

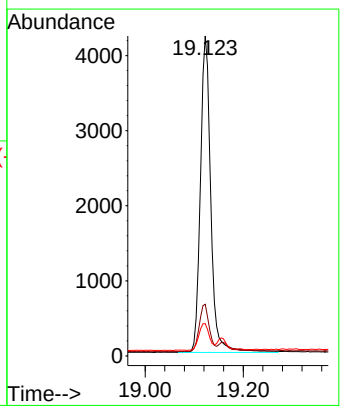


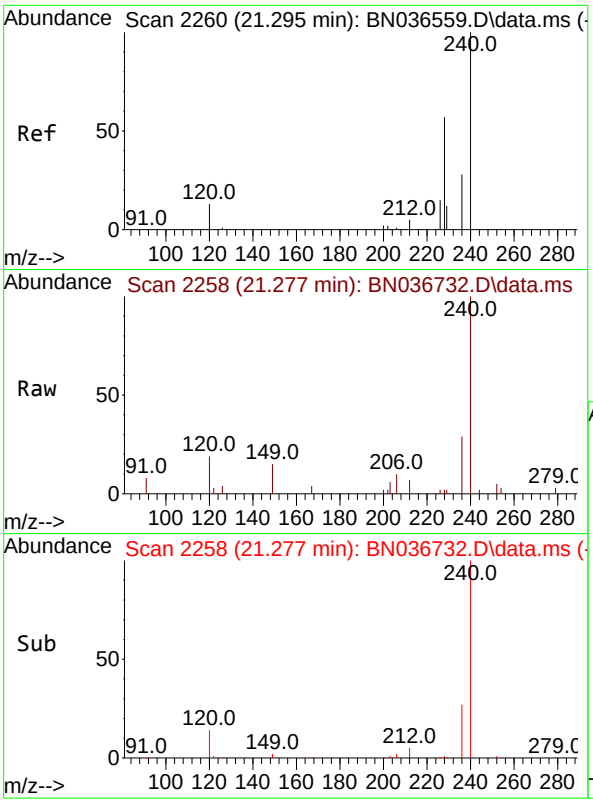


#27
Fluoranthene-d10
Concen: 0.491 ng
RT: 19.123 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Tgt Ion:212 Resp: 6181

Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.8	17.6
104	8.6	7.3	10.9



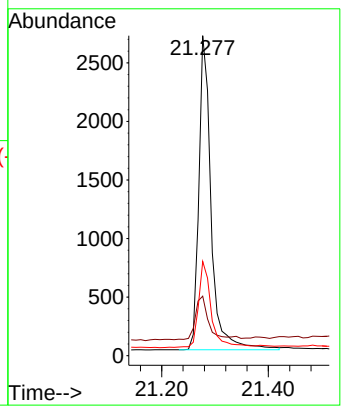


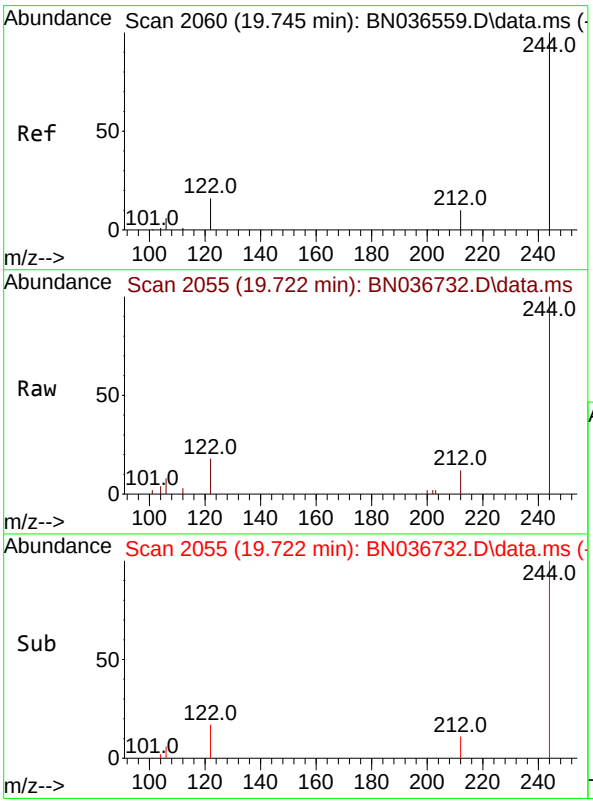
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Tgt Ion:240 Resp: 4299

Ion	Ratio	Lower	Upper
240	100		
120	18.6	14.6	22.0
236	29.5	24.1	36.1

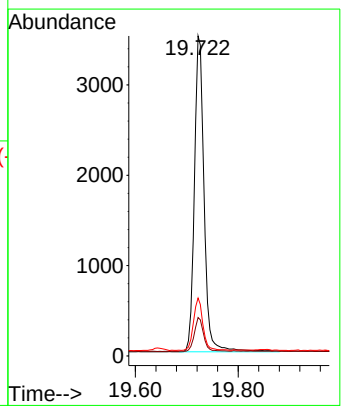


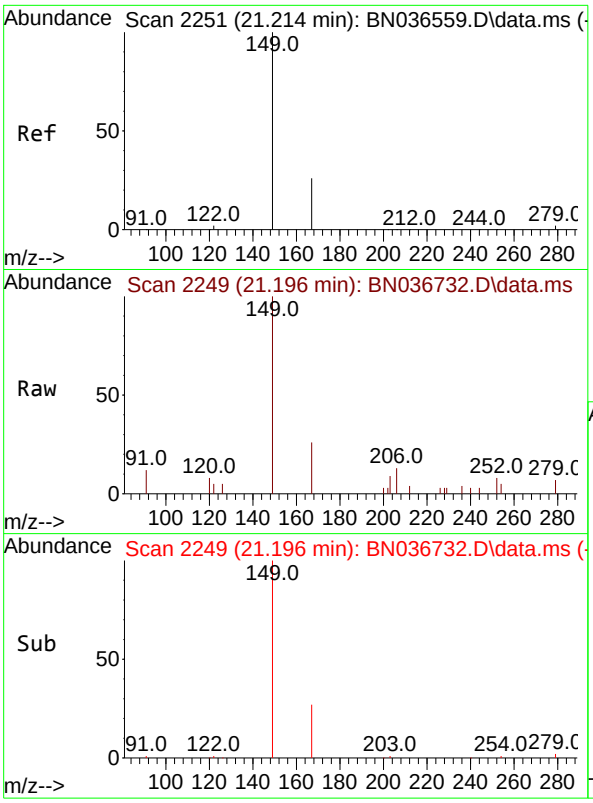


#31
Terphenyl-d14
Concen: 0.448 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Tgt Ion:244 Resp: 4618

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	18.1	13.9	20.9



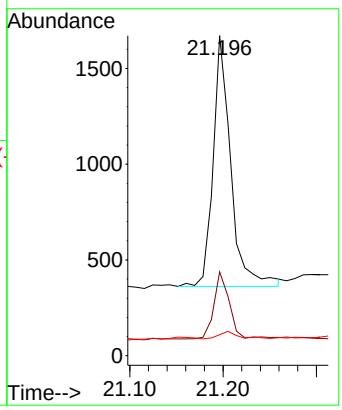


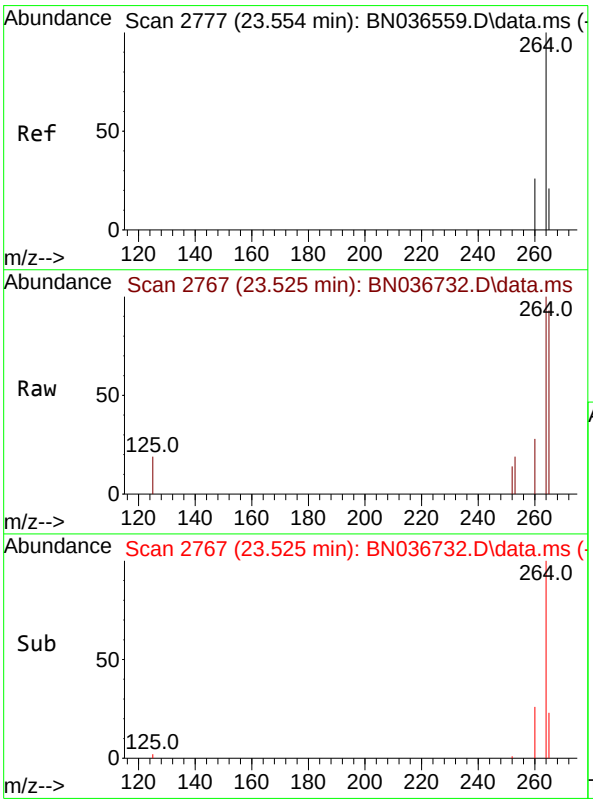
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.162 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Instrument :
BNA_N
ClientSampleId :
RE139D1-20250317

Tgt Ion:149 Resp: 1724

Ion	Ratio	Lower	Upper
149	100		
167	22.9	20.7	31.1
279	3.2	3.6	5.4#

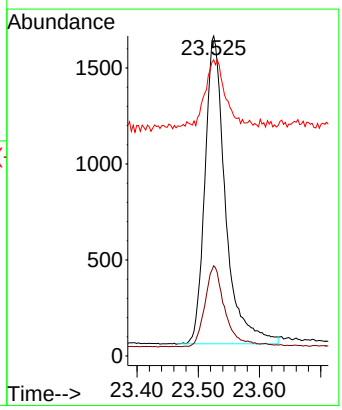




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2767
Delta R.T. -0.029 min
Lab File: BN036732.D
Acq: 27 Mar 2025 11:38

Tgt Ion:264 Resp: 3740

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	92.6	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:	AECOM Technical Services, Inc.	Date Collected:	03/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE139D2-20250317	SDG No.:	Q1608
Lab Sample ID:	Q1608-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036745.D	1	03/20/25 10:49	03/27/25 19:51	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		110%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1780	7.703				
1146-65-2	Naphthalene-d8	4100	10.488				
15067-26-2	Acenaphthene-d10	2550	14.345				
1517-22-2	Phenanthrene-d10	5580	17.087				
1719-03-5	Chrysene-d12	4810	21.277				
1520-96-3	Perylene-d12	4210	23.525				

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\BN032725\
Data File : BN036745.D
Acq On : 27 Mar 2025 19:51
Operator : RC/JU
Sample : Q1608-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 28 00:57:58 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 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1782	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	4096	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2547	0.400	ng	-0.02
19) Phenanthrene-d10	17.087	188	5581	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4807	0.400	ng	-0.02
35) Perylene-d12	23.525	264	4214	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	640	0.154	ng	-0.01
5) Phenol-d6	6.879	99	449	0.088	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1355	0.304	ng	-0.02
11) 2-Methylnaphthalene-d10	12.086	152	1849	0.303	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	459	0.397	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	5964	0.403	ng	-0.02
27) Fluoranthene-d10	19.123	212	6637	0.464	ng	-0.02
31) Terphenyl-d14	19.722	244	5052	0.439	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	3010	1.523	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.196	149	1001m	0.084	ng	

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

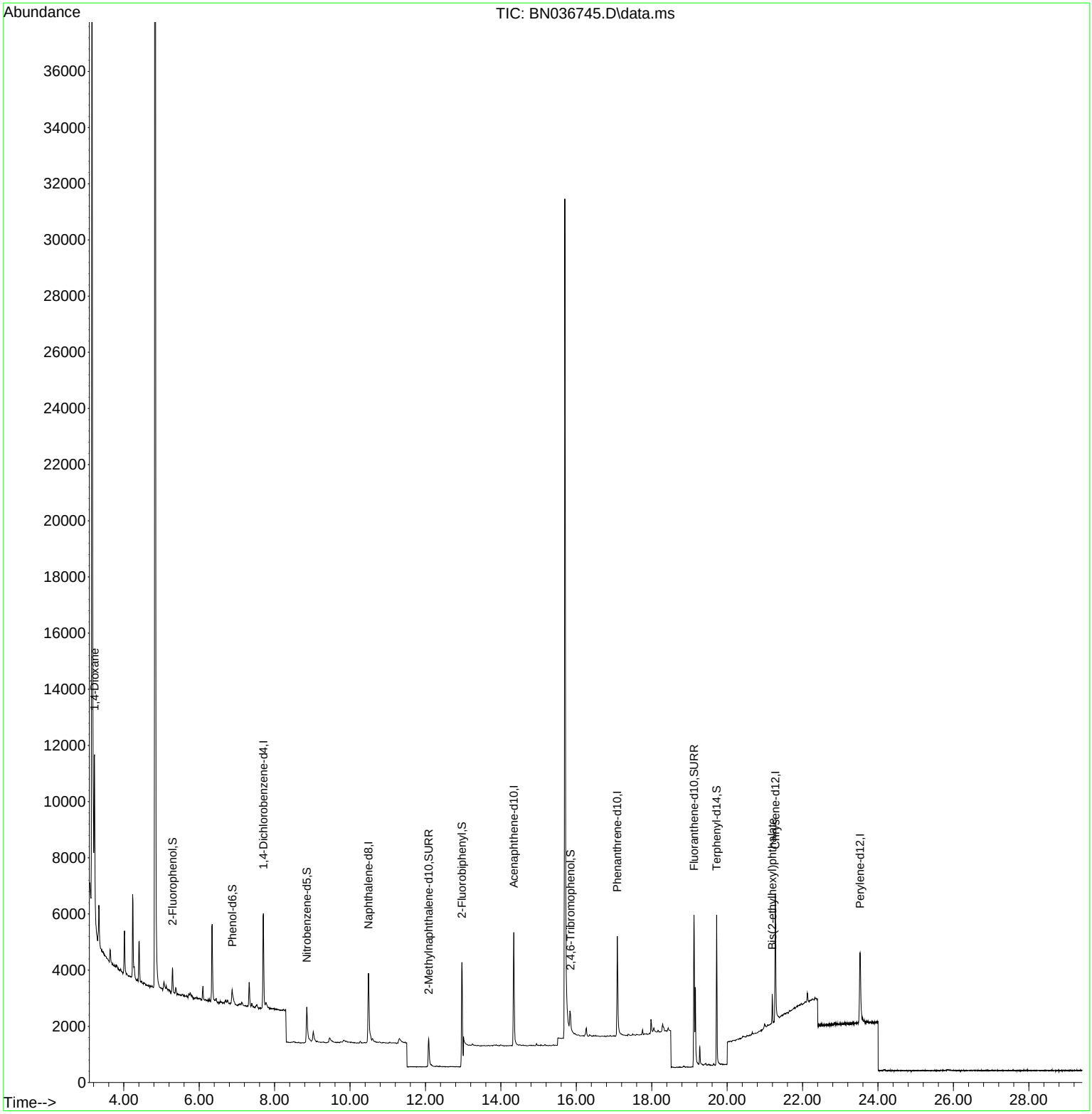
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Data File : BN036745.D
Acq On : 27 Mar 2025 19:51
Operator : RC/JU
Sample : Q1608-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

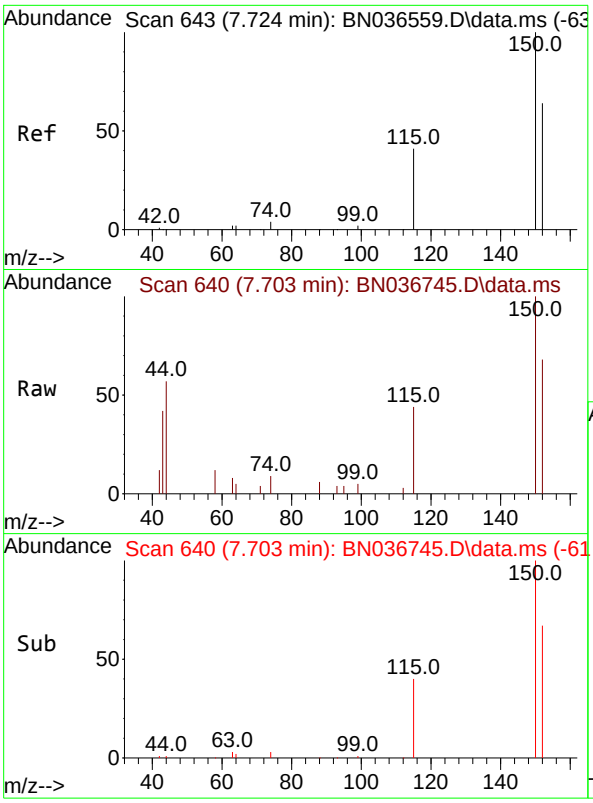
Quant Time: Mar 28 00:57:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

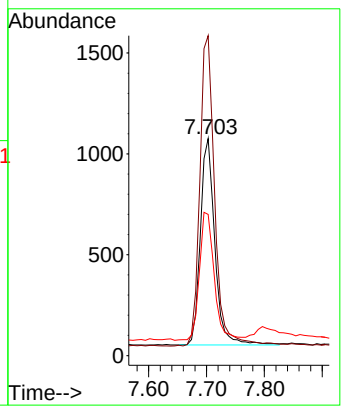




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:152 Resp: 178

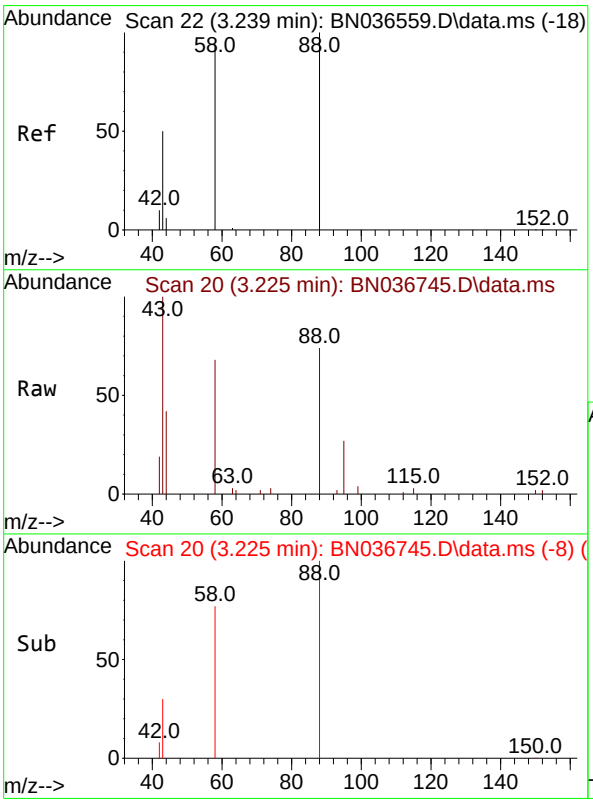
Ion	Ratio	Lower	Upper
152	100		
150	147.4	123.7	185.5
115	65.1	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations
APPROVED

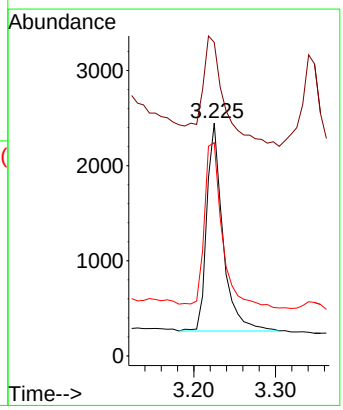
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

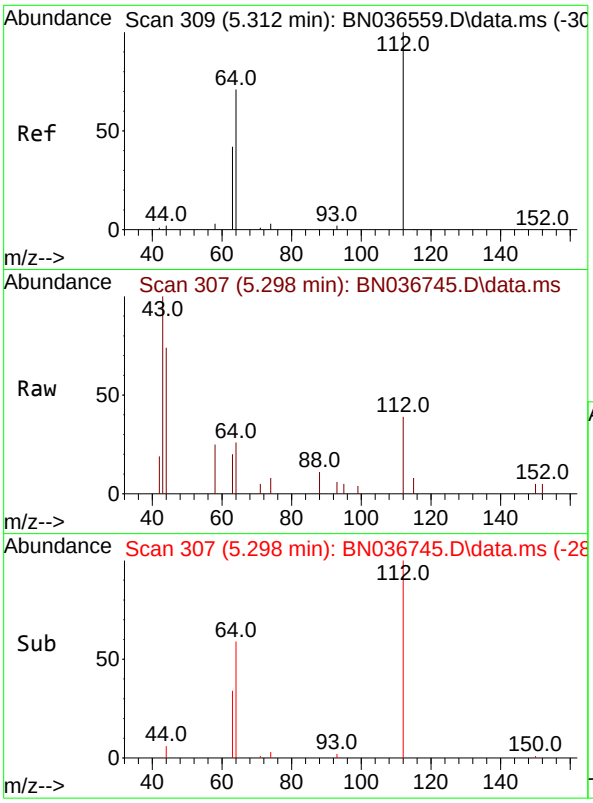


#2
1,4-Dioxane
Concen: 1.523 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion: 88 Resp: 3010

Ion	Ratio	Lower	Upper
88	100		
43	74.8	37.8	56.8#
58	88.5	67.4	101.2

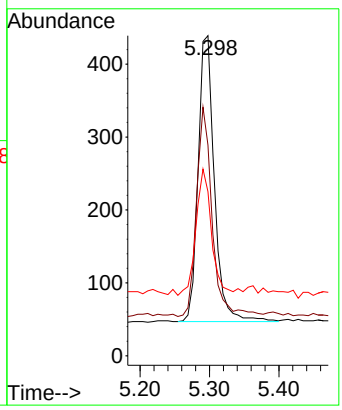




#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.298 min Scan# 3(
Delta R.T. -0.014 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:112 Resp: 64(

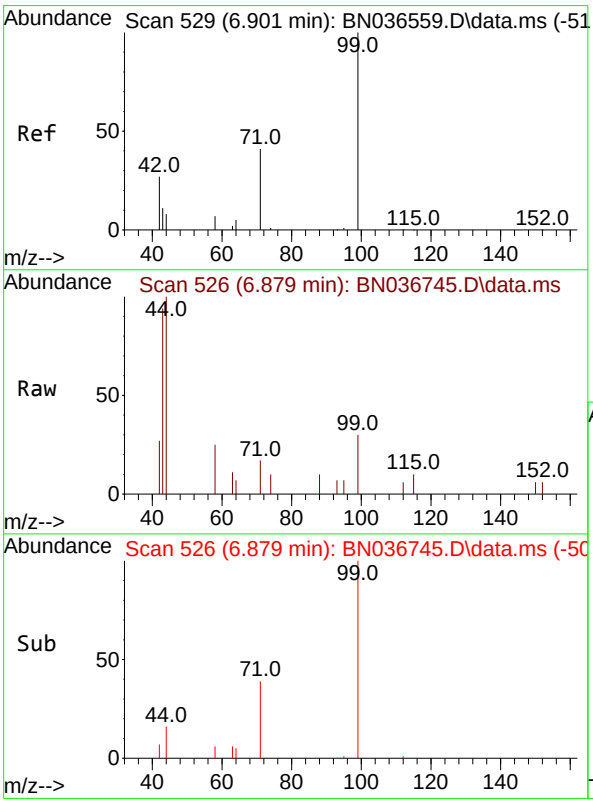
Ion	Ratio	Lower	Upper
112	100		
64	70.5	53.1	79.7
63	42.7	31.8	47.8



Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations
APPROVED

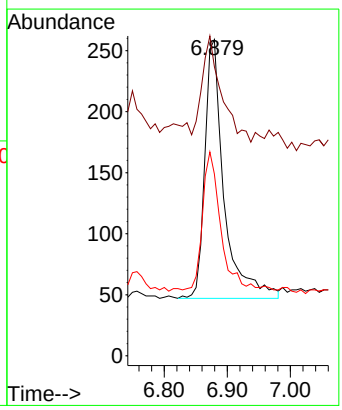
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

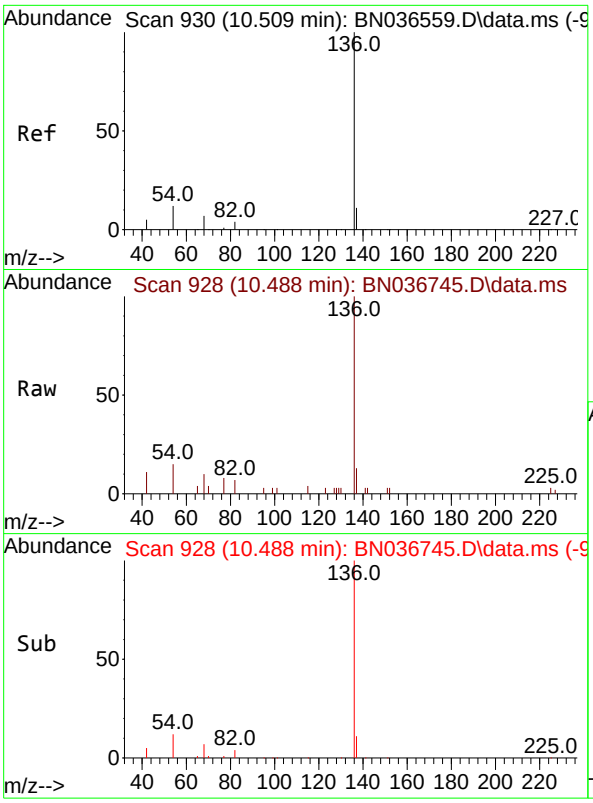


#5
Phenol-d6
Concen: 0.088 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion: 99 Resp: 449

Ion	Ratio	Lower	Upper
99	100		
42	41.4	26.5	39.7#
71	51.9	34.1	51.1#

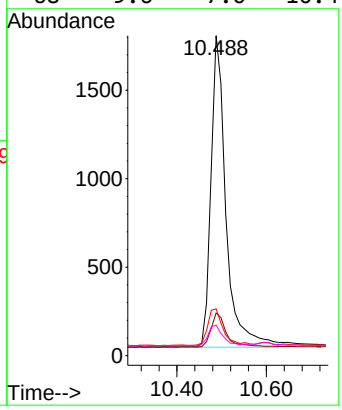




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:136 Resp: 409

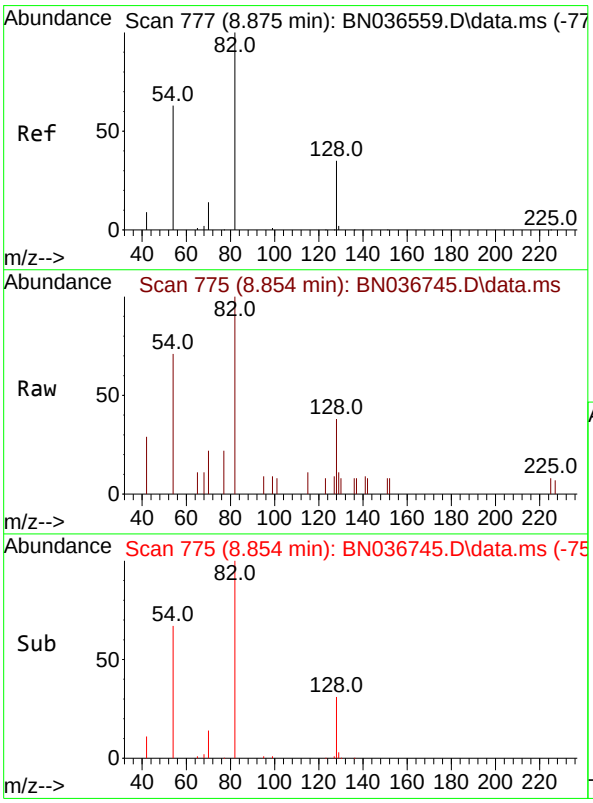
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	14.7	11.5	17.3
68	9.6	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations
APPROVED

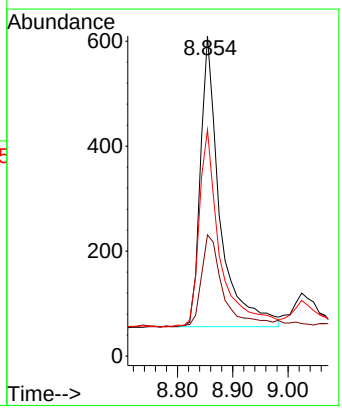
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

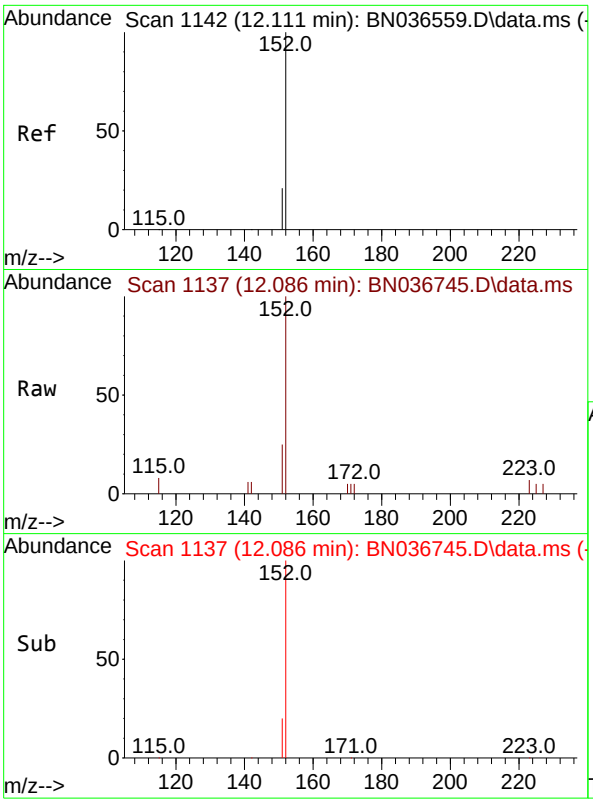


#8
Nitrobenzene-d5
Concen: 0.304 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion: 82 Resp: 1355

Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	70.7	52.2	78.4





#11
2-Methylnaphthalene-d10
Concen: 0.303 ng
RT: 12.086 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

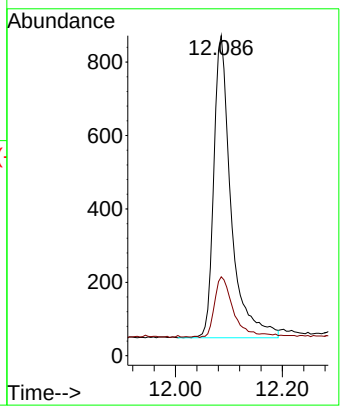
Tgt Ion:152 Resp: 184

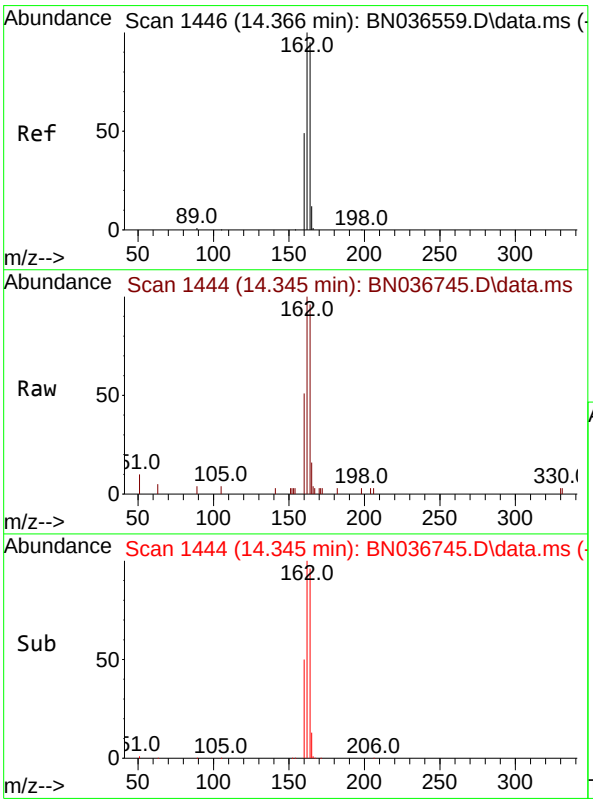
Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

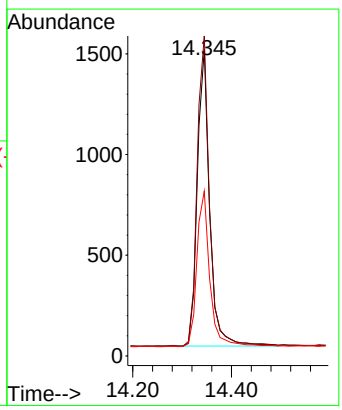


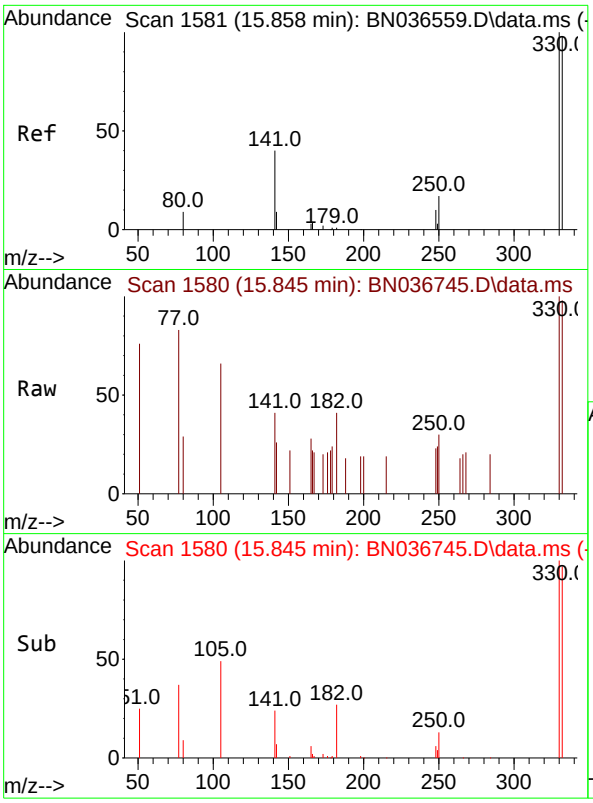


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:164 Resp: 2547

Ion	Ratio	Lower	Upper
164	100		
162	104.4	84.2	126.2
160	53.7	42.2	63.2

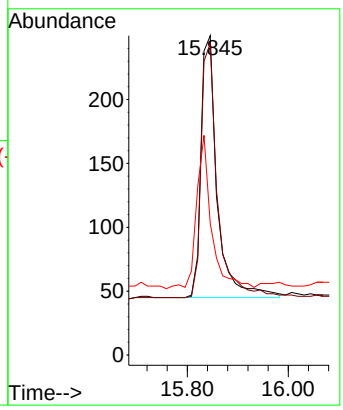




#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:330 Resp: 45

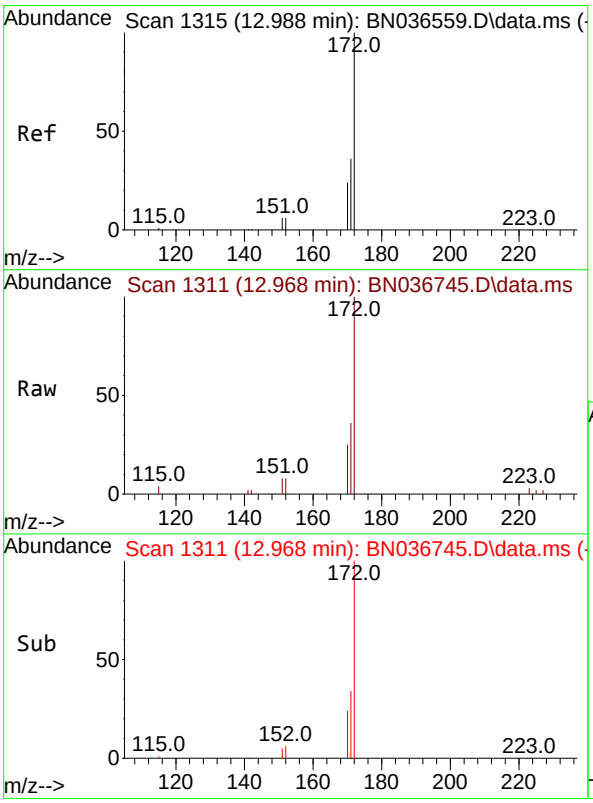
Ion	Ratio	Lower	Upper
330	100		
332	97.4	75.2	112.8
141	53.4	43.4	65.2



Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations
APPROVED

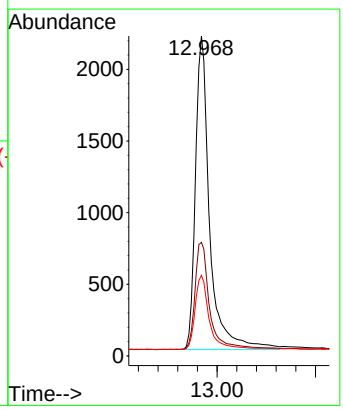
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

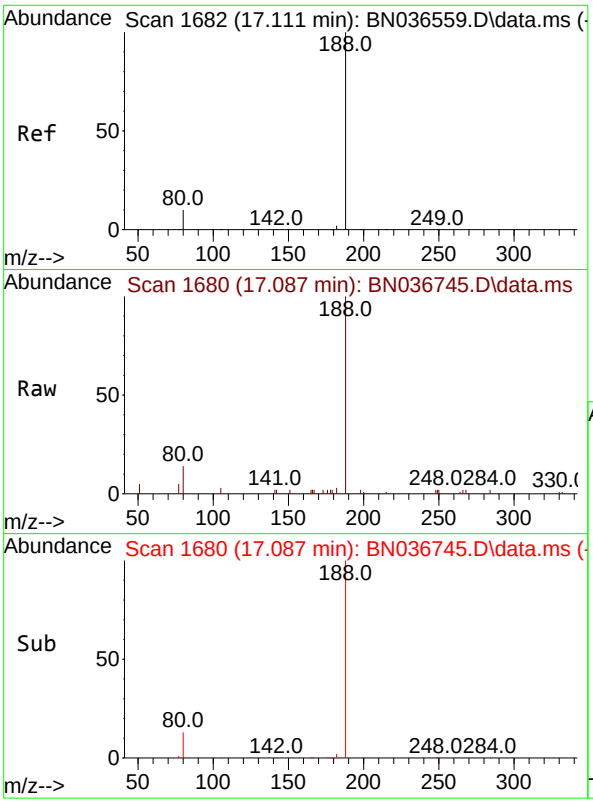


#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:172 Resp: 5964

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.5	44.3
170	25.2	20.2	30.4

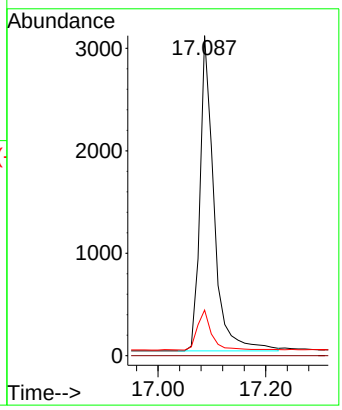




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:188 Resp: 558

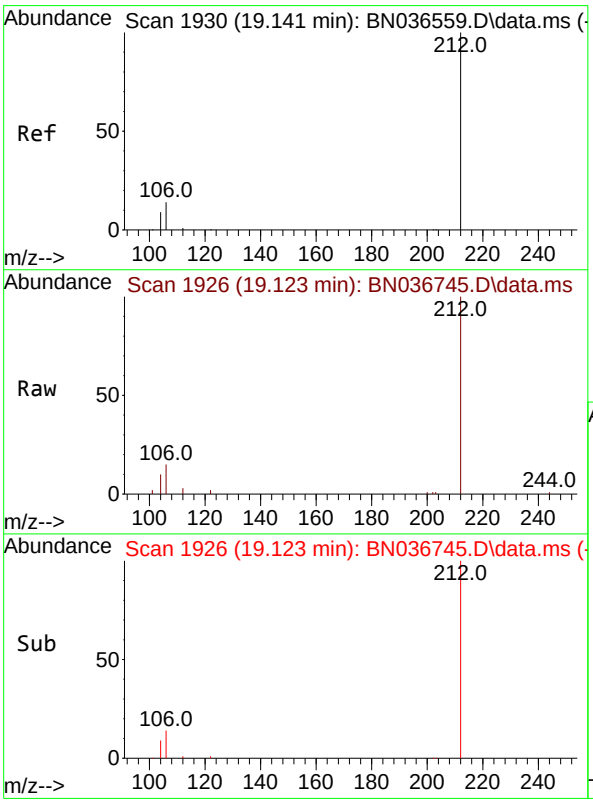
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.2	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations
APPROVED

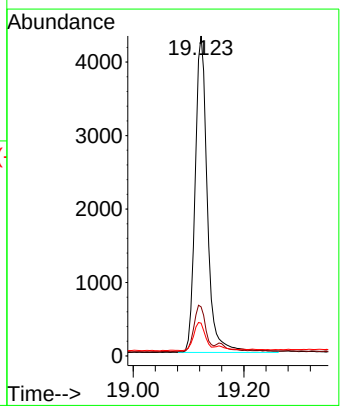
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

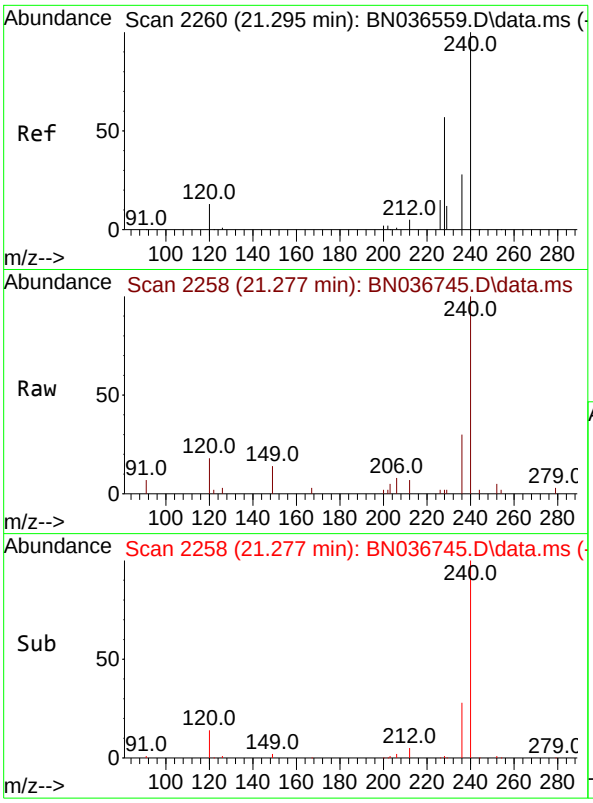


#27
Fluoranthene-d10
Concen: 0.464 ng
RT: 19.123 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:212 Resp: 6637

Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.8	17.6
104	8.5	7.3	10.9

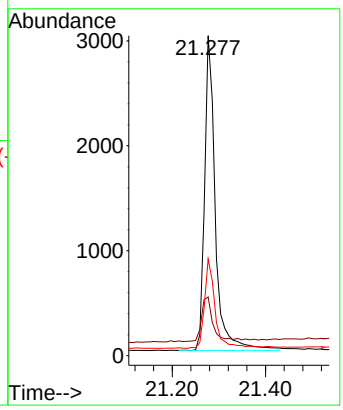




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:240 Resp: 480

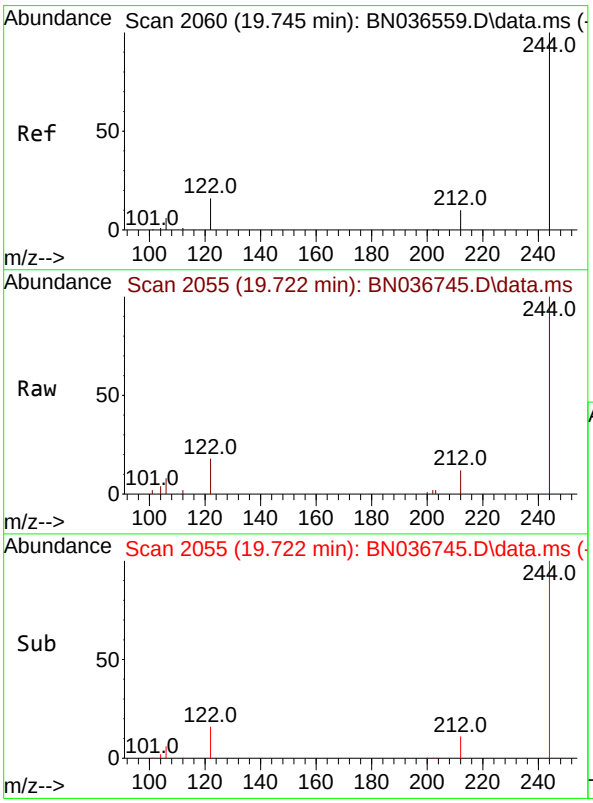
Ion	Ratio	Lower	Upper
240	100		
120	18.4	14.6	22.0
236	30.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations
APPROVED

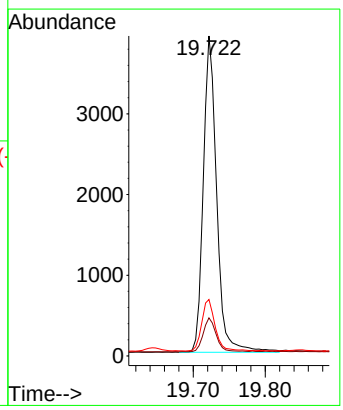
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

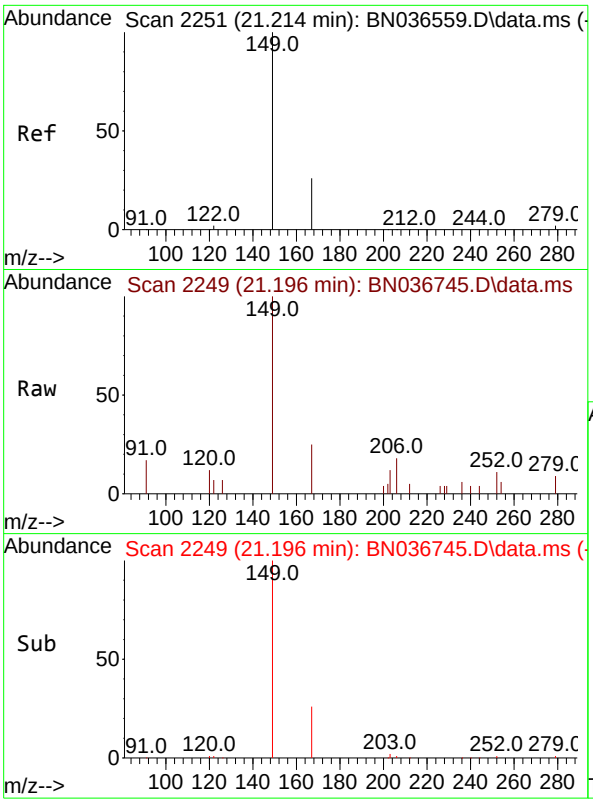


#31
Terphenyl-d14
Concen: 0.439 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:244 Resp: 5052

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	17.7	13.9	20.9

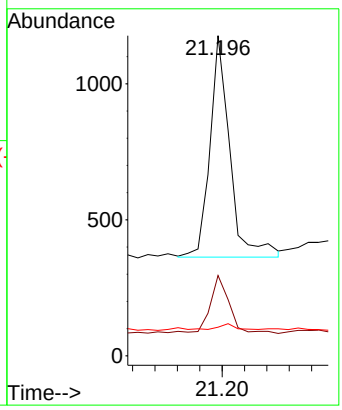




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.084 ng m
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:149 Resp: 100

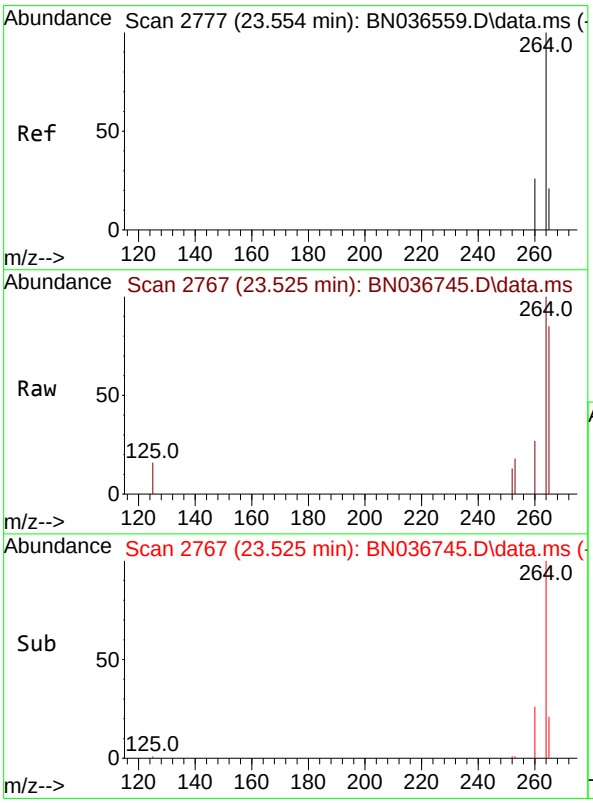
Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.7	31.1
279	2.0	3.6	5.4#



Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Manual Integrations APPROVED

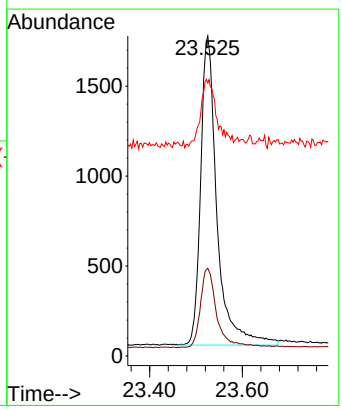
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2767
Delta R.T. -0.029 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:264 Resp: 4214

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	85.3	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:	AECOM Technical Services, Inc.	Date Collected:	03/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	TT205S1-20250317	SDG No.:	Q1608
Lab Sample ID:	Q1608-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036746.D	1	03/20/25 10:49	03/27/25 20:27	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.60		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.50		30 - 150		125%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		111%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1290	7.703				
1146-65-2	Naphthalene-d8	3210	10.487				
15067-26-2	Acenaphthene-d10	2000	14.345				
1517-22-2	Phenanthrene-d10	4490	17.086				
1719-03-5	Chrysene-d12	3920	21.277				
1520-96-3	Perylene-d12	3560	23.522				

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\BN032725\
Data File : BN036746.D
Acq On : 27 Mar 2025 20:27
Operator : RC/JU
Sample : Q1608-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Quant Time: Mar 28 00:58:11 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

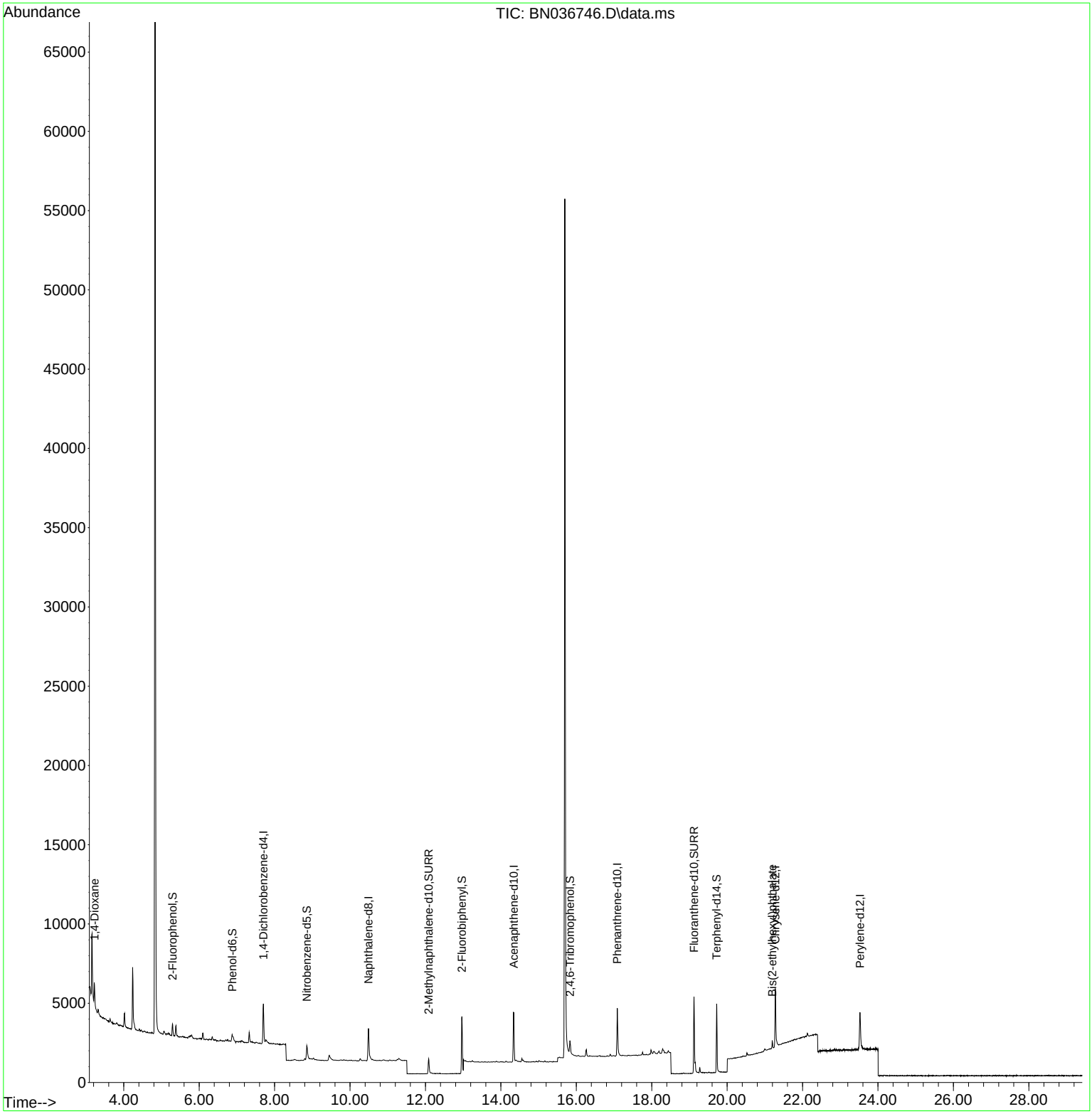
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1291	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3205	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2003	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4493	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3924	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3555	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	570	0.189	ng	-0.01
5) Phenol-d6	6.879	99	413	0.111	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1113	0.319	ng	-0.02
11) 2-Methylnaphthalene-d10	12.085	152	1572	0.330	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	482	0.530	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	5151	0.442	ng	-0.02
27) Fluoranthene-d10	19.122	212	5729	0.498	ng	-0.02
31) Terphenyl-d14	19.722	244	4512	0.480	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	859	0.600	ng	# 64
34) Bis(2-ethylhexyl)phtha...	21.196	149	506	0.052	ng	# 97

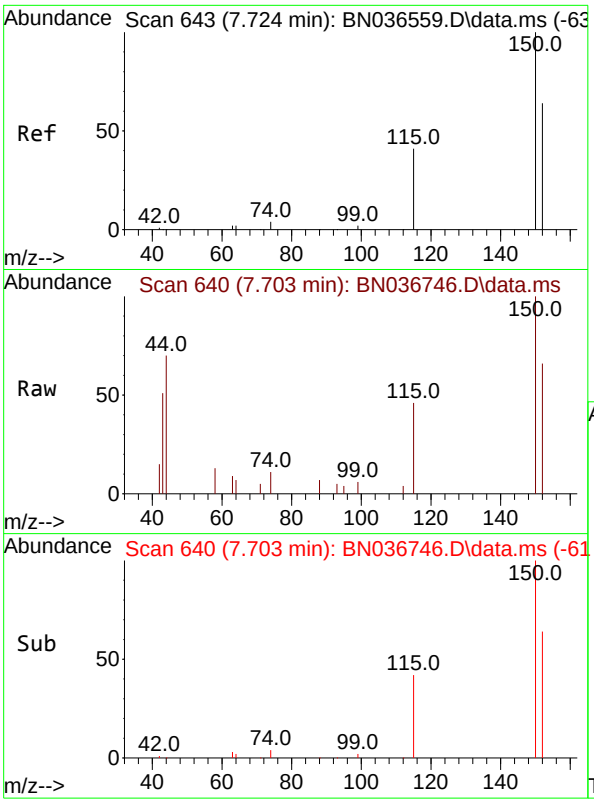
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036746.D
Acq On : 27 Mar 2025 20:27
Operator : RC/JU
Sample : Q1608-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Quant Time: Mar 28 00:58:11 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



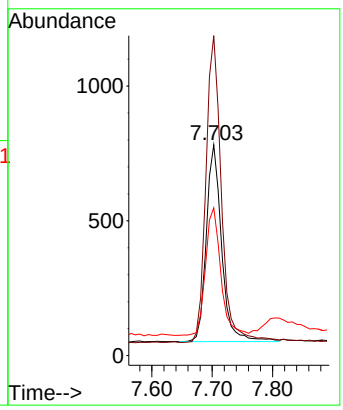


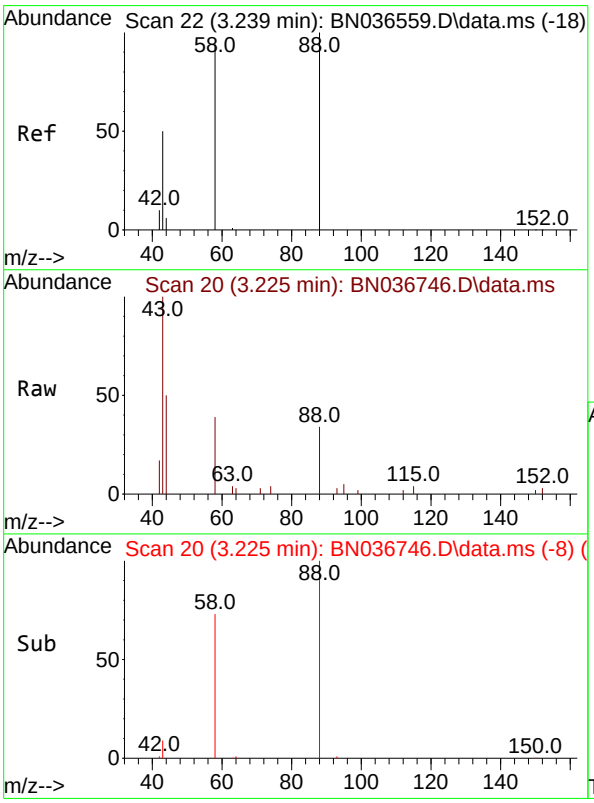
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Tgt Ion:152 Resp: 1291

Ion	Ratio	Lower	Upper
152	100		
150	151.8	123.7	185.5
115	70.1	54.3	81.5

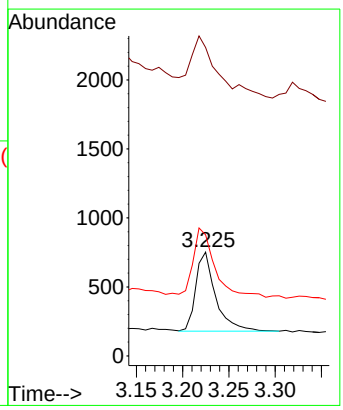


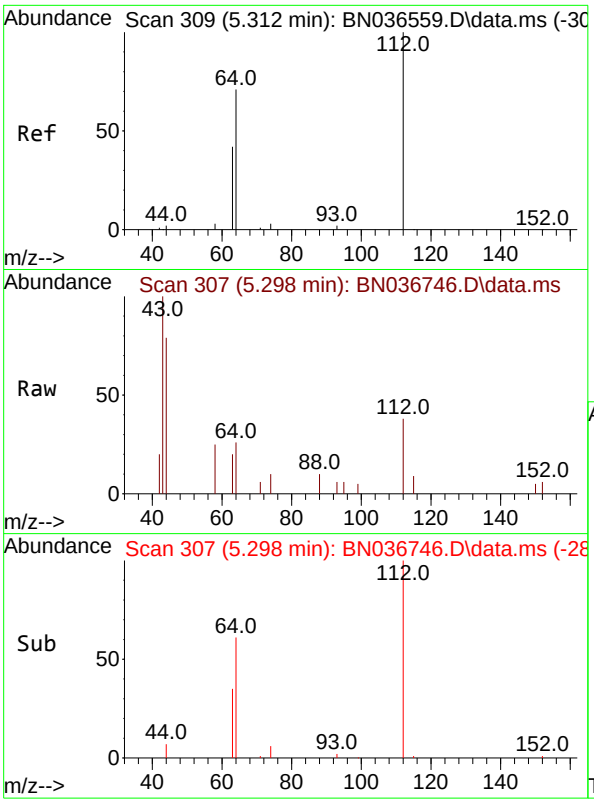


#2
1,4-Dioxane
Concen: 0.600 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Tgt Ion: 88 Resp: 859

Ion	Ratio	Lower	Upper
88	100		
43	108.4	37.8	56.8#
58	88.7	67.4	101.2



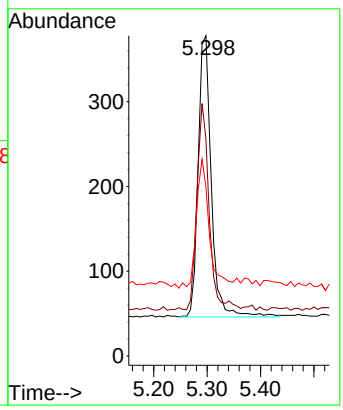


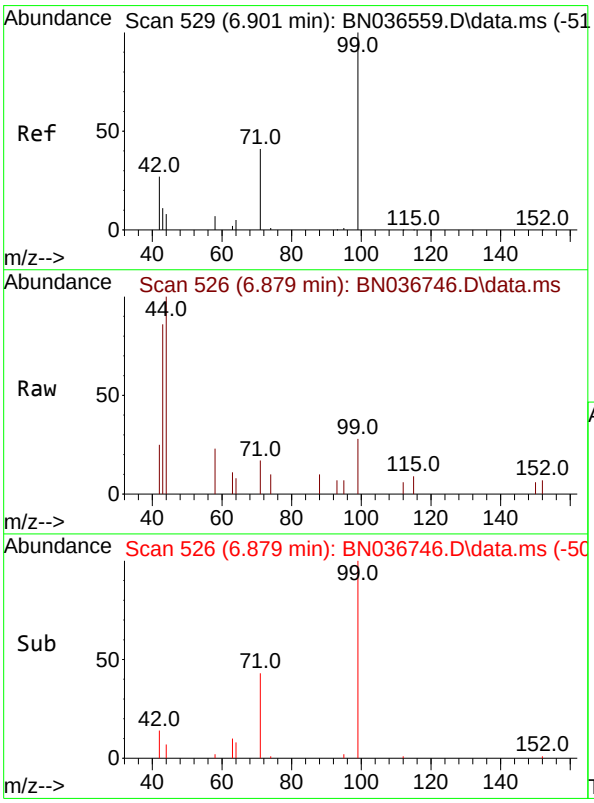
#4
2-Fluorophenol
Concen: 0.189 ng
RT: 5.298 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Tgt Ion:112 Resp: 570

Ion	Ratio	Lower	Upper
112	100		
64	68.1	53.1	79.7
63	44.7	31.8	47.8

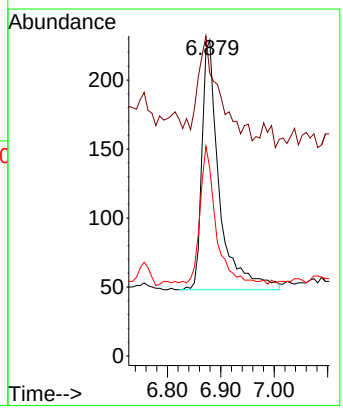


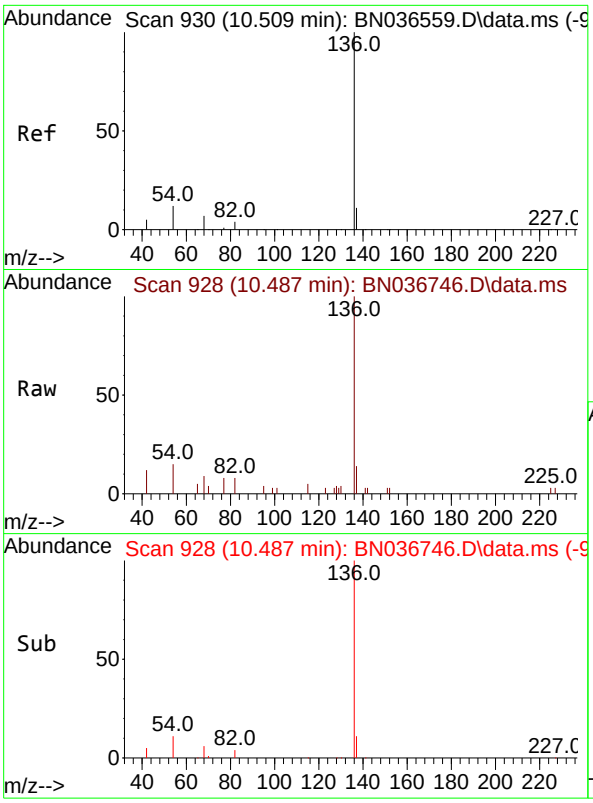


#5
Phenol-d6
Concen: 0.111 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Tgt Ion: 99 Resp: 413

Ion	Ratio	Lower	Upper
99	100		
42	46.7	26.5	39.7#
71	50.6	34.1	51.1



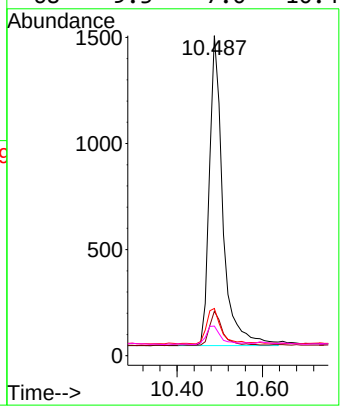


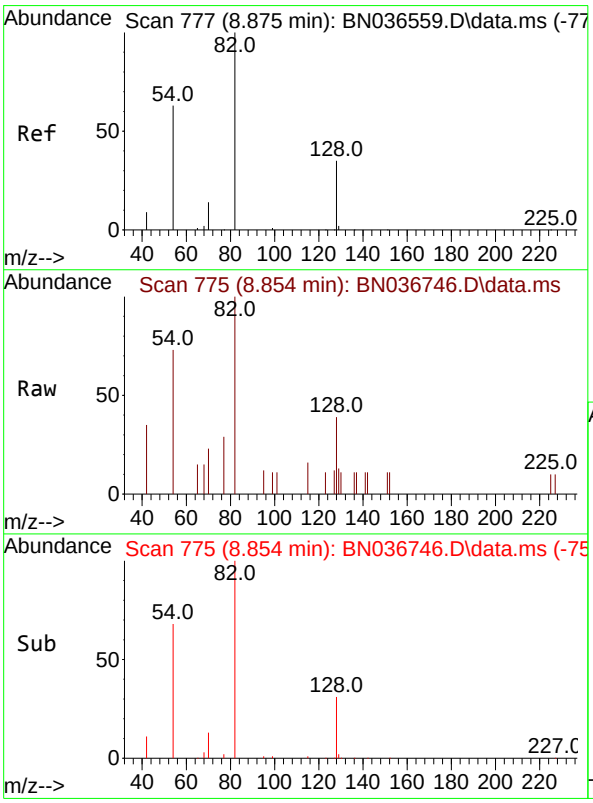
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Tgt Ion:136 Resp: 3205

Ion	Ratio	Lower	Upper
136	100		
137	13.9	10.3	15.5
54	14.8	11.5	17.3
68	9.3	7.0	10.4

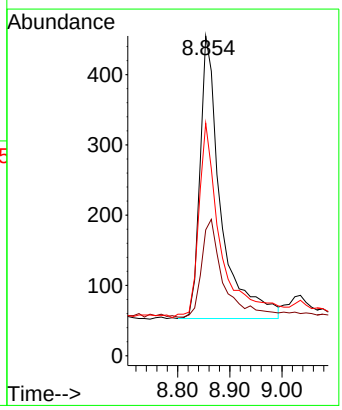


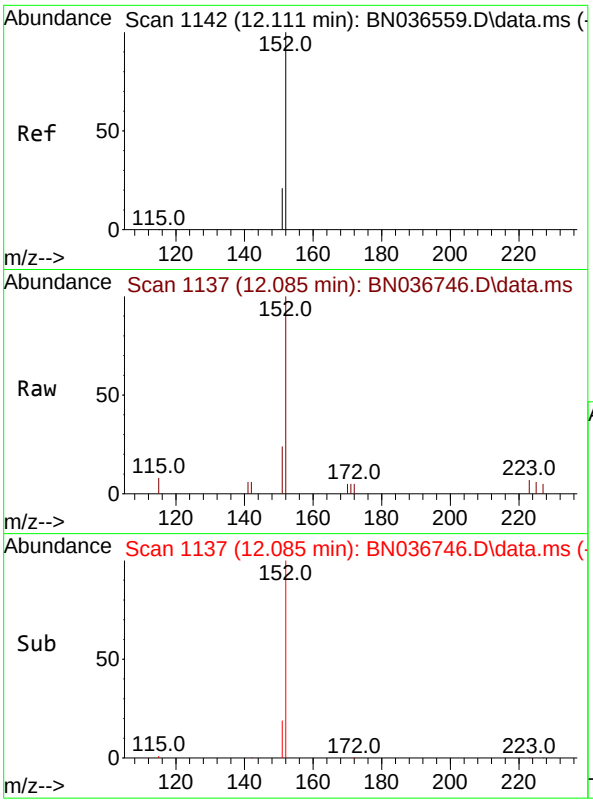


#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Tgt Ion: 82 Resp: 1113

Ion	Ratio	Lower	Upper
82	100		
128	39.3	30.6	45.8
54	72.7	52.2	78.4



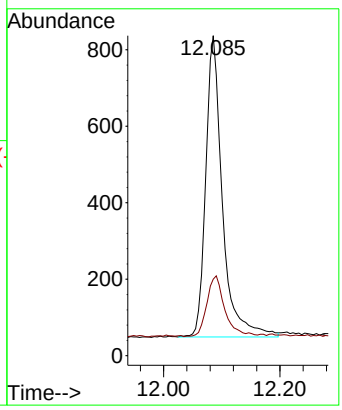


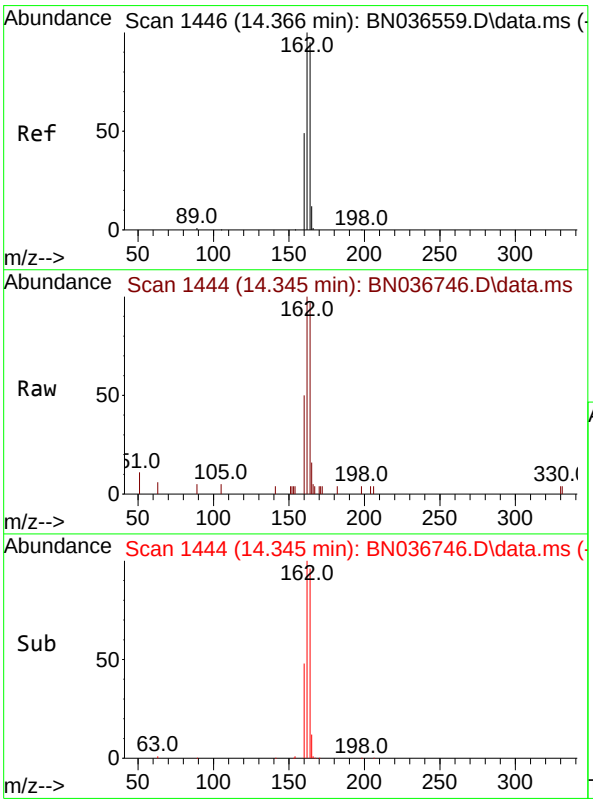
#11
2-Methylnaphthalene-d10
Concen: 0.330 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Tgt Ion:152 Resp: 1572

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

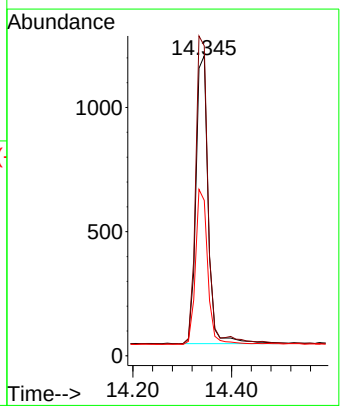


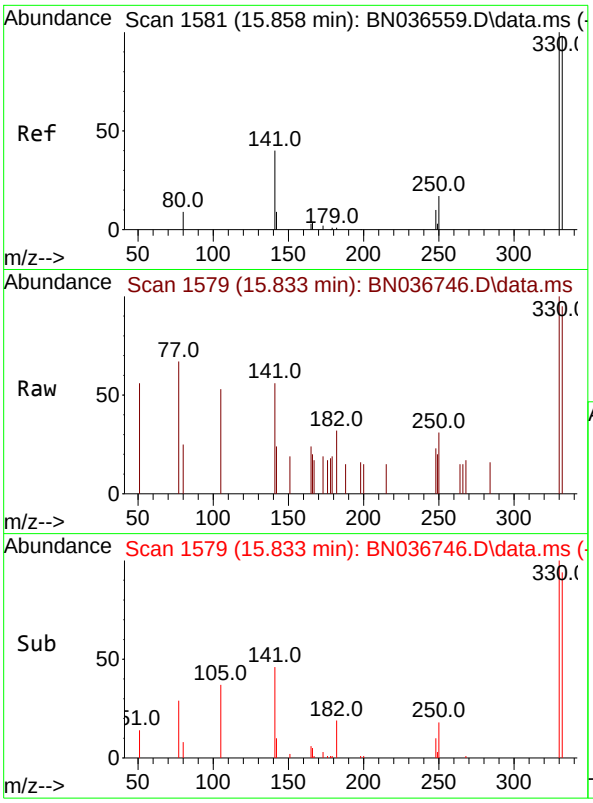


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Tgt Ion:164 Resp: 2003

Ion	Ratio	Lower	Upper
164	100		
162	103.2	84.2	126.2
160	51.8	42.2	63.2



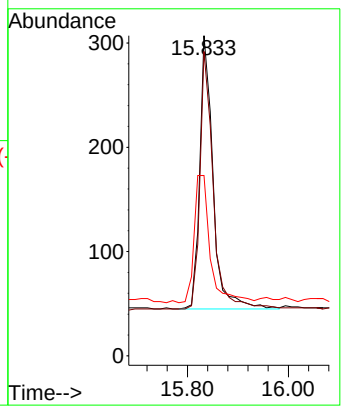


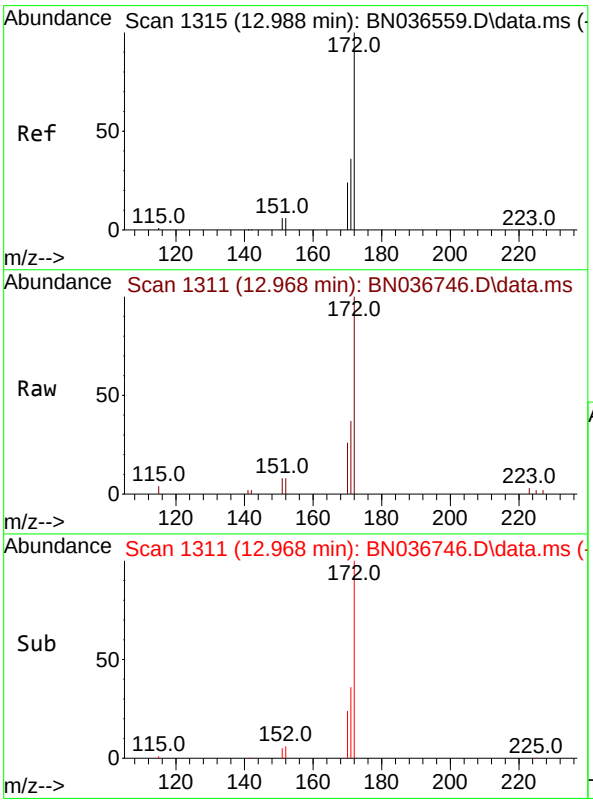
#14
2,4,6-Tribromophenol
Concen: 0.530 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Tgt Ion:330 Resp: 482

Ion	Ratio	Lower	Upper
330	100		
332	93.6	75.2	112.8
141	56.0	43.4	65.2

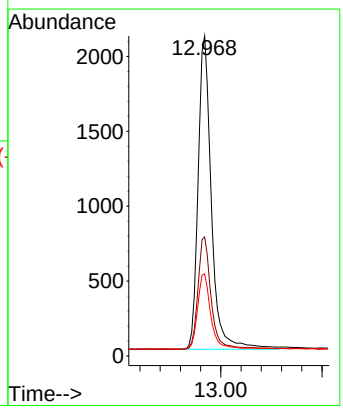


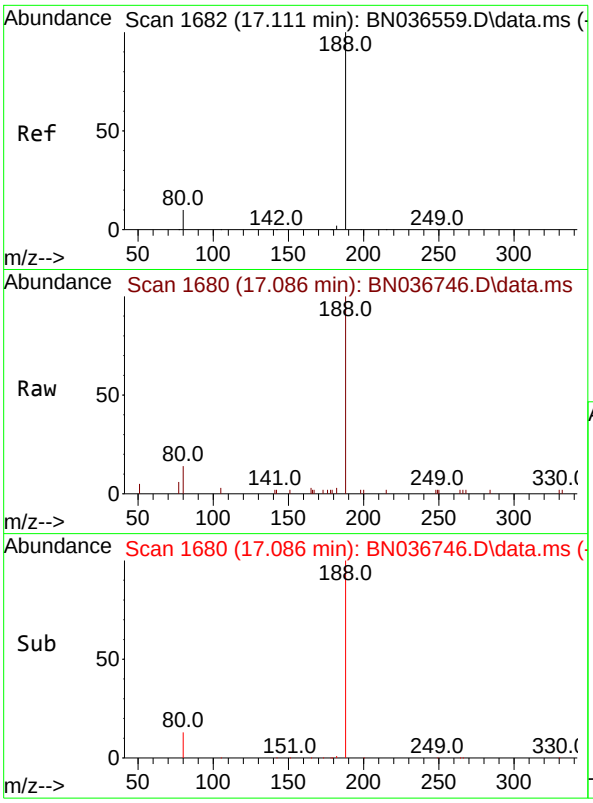


#15
2-Fluorobiphenyl
Concen: 0.442 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Tgt Ion:172 Resp: 5151

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.6	20.2	30.4



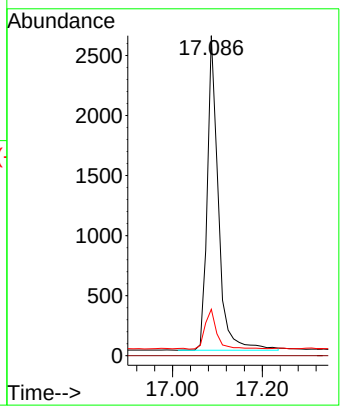


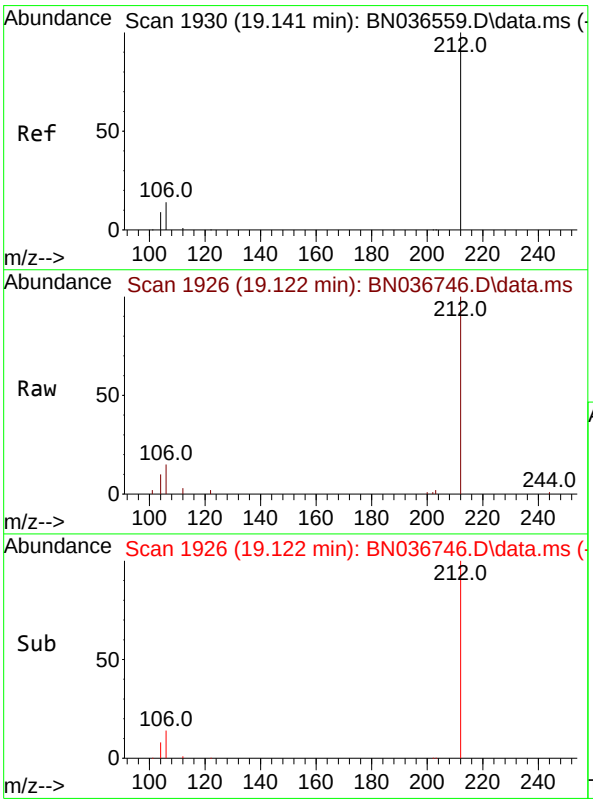
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Tgt Ion:188 Resp: 4493

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	8.8	13.2#

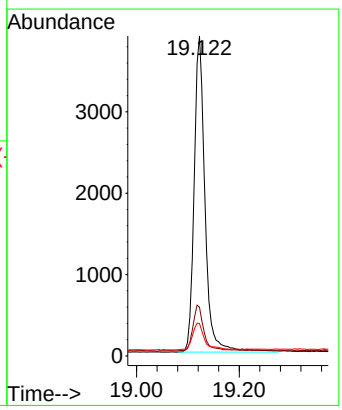


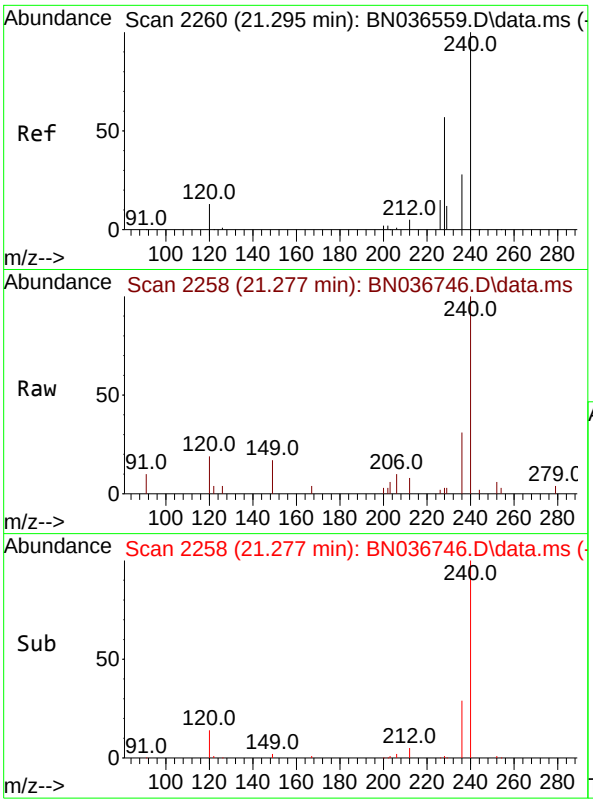


#27
Fluoranthene-d10
Concen: 0.498 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.019 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Tgt Ion:212 Resp: 5729

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.8	17.6
104	9.5	7.3	10.9



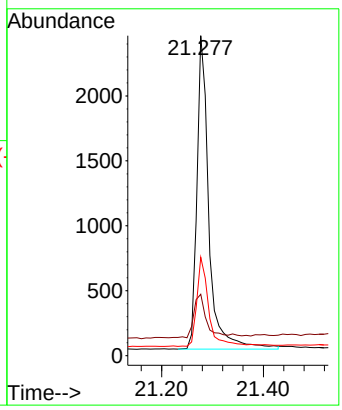


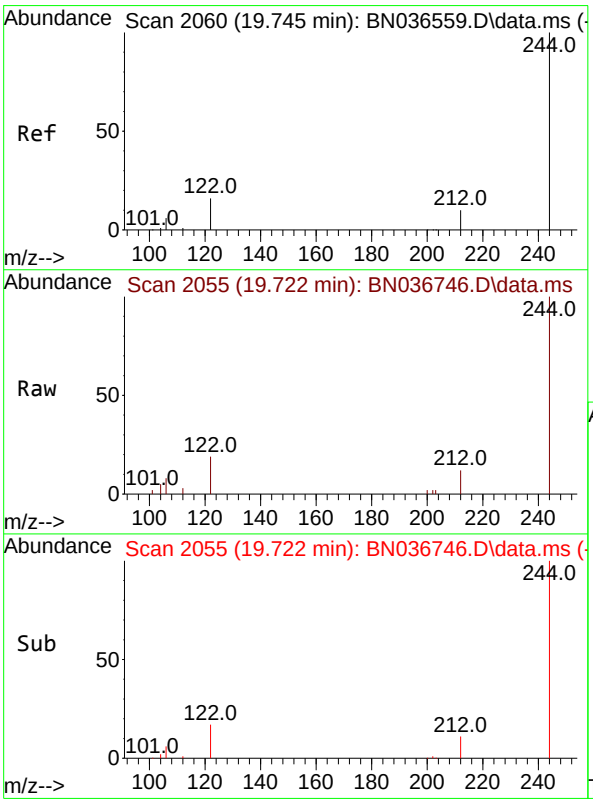
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Tgt Ion:240 Resp: 3924

Ion	Ratio	Lower	Upper
240	100		
120	19.2	14.6	22.0
236	30.8	24.1	36.1

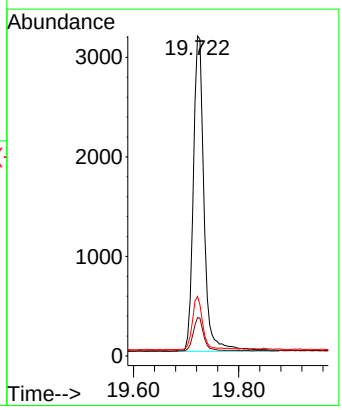


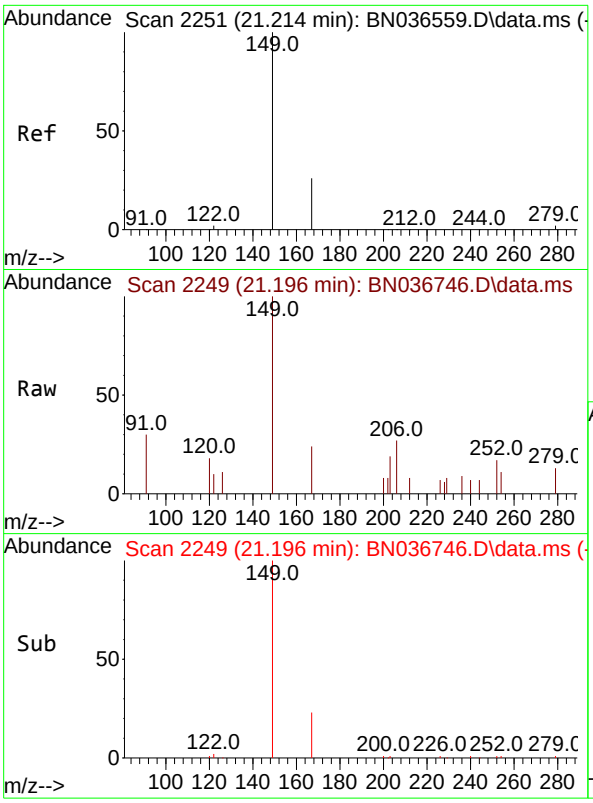


#31
Terphenyl-d14
Concen: 0.480 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Tgt Ion:244 Resp: 4512

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	18.6	13.9	20.9



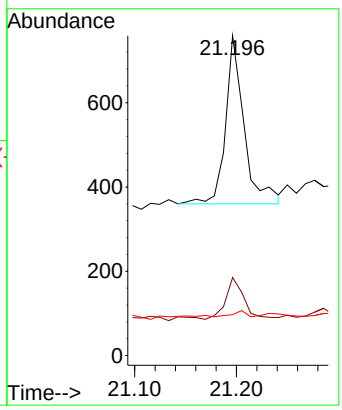


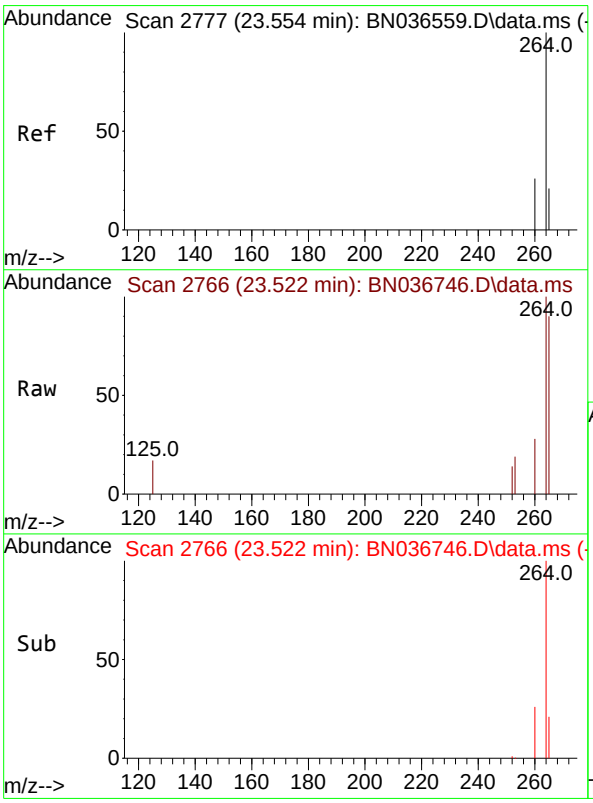
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.052 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Instrument :
BNA_N
ClientSampleId :
TT205S1-20250317

Tgt Ion:149 Resp: 506

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.7	31.1
279	2.8	3.6	5.4#

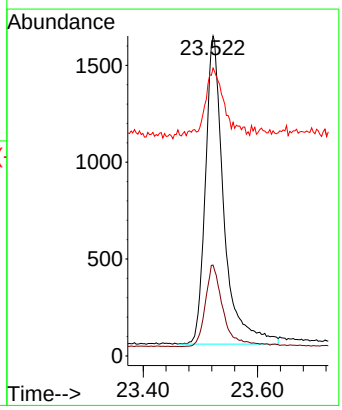




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2766
Delta R.T. -0.032 min
Lab File: BN036746.D
Acq: 27 Mar 2025 20:27

Tgt Ion:264 Resp: 3555

Ion	Ratio	Lower	Upper
264	100		
260	28.4	22.6	33.8
265	90.0	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:	AECOM Technical Services, Inc.	Date Collected:	03/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	DUP07-20250317	SDG No.:	Q1608
Lab Sample ID:	Q1608-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036783.D	1	03/20/25 10:49	03/28/25 21:14	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.53		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		124%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1410	7.695				
1146-65-2	Naphthalene-d8	3530	10.487				
15067-26-2	Acenaphthene-d10	2300	14.334				
1517-22-2	Phenanthrene-d10	4970	17.086				
1719-03-5	Chrysene-d12	4270	21.277				
1520-96-3	Perylene-d12	3490	23.519				

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\BN032825\
Data File : BN036783.D
Acq On : 28 Mar 2025 21:14
Operator : RC/JU
Sample : Q1608-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Quant Time: Mar 28 22:53:09 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

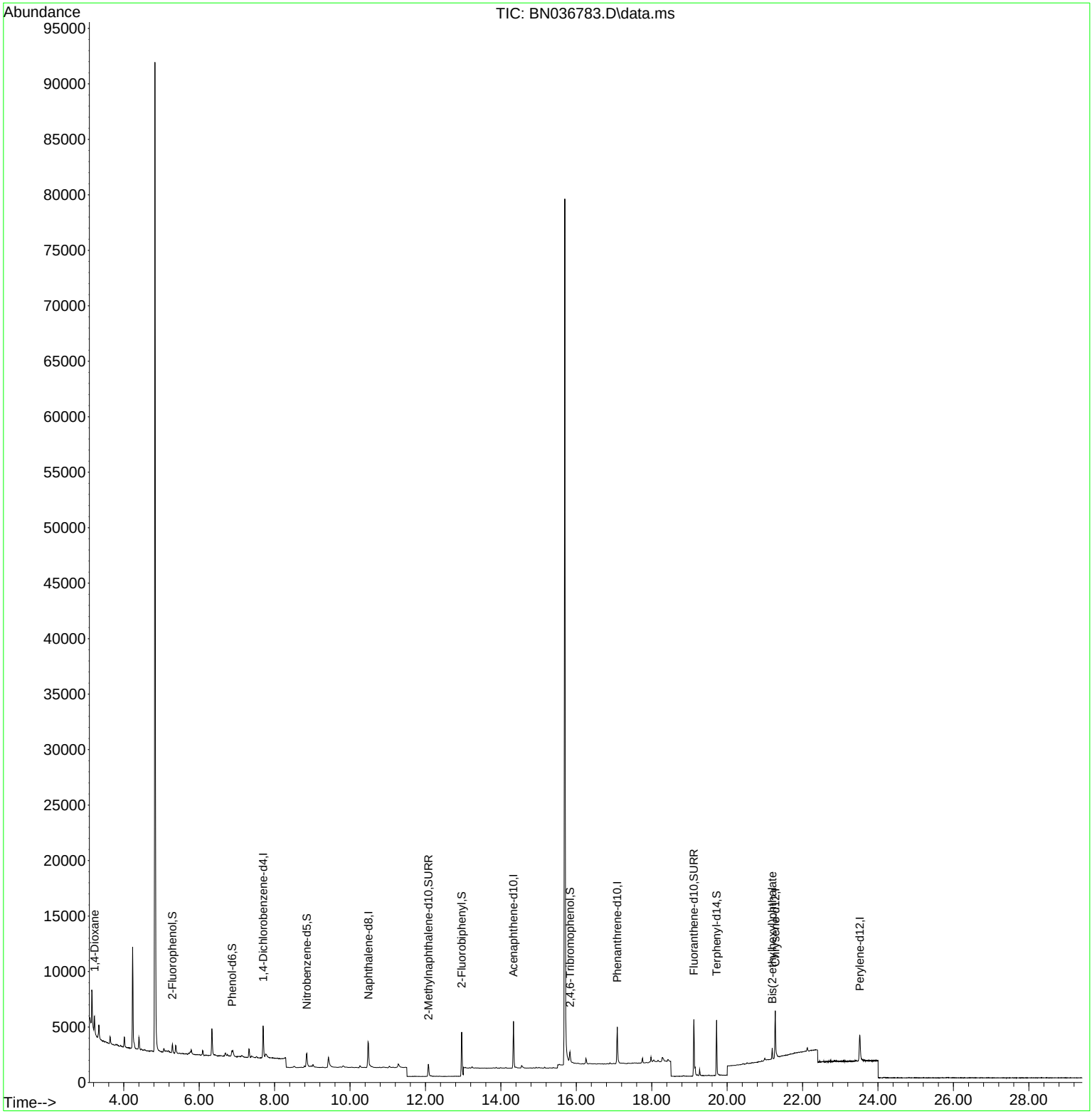
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1407	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3532	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2299	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4965	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4273	0.400	ng	#-0.02
35) Perylene-d12	23.519	264	3489	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	587	0.179	ng	-0.02
5) Phenol-d6	6.872	99	423	0.104	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1330	0.346	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1782	0.339	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	541	0.519	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5324	0.398	ng	-0.03
27) Fluoranthene-d10	19.118	212	6029	0.474	ng	-0.02
31) Terphenyl-d14	19.722	244	5083	0.497	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	822	0.527	ng	# 65
34) Bis(2-ethylhexyl)phtha...	21.196	149	900	0.085	ng	97

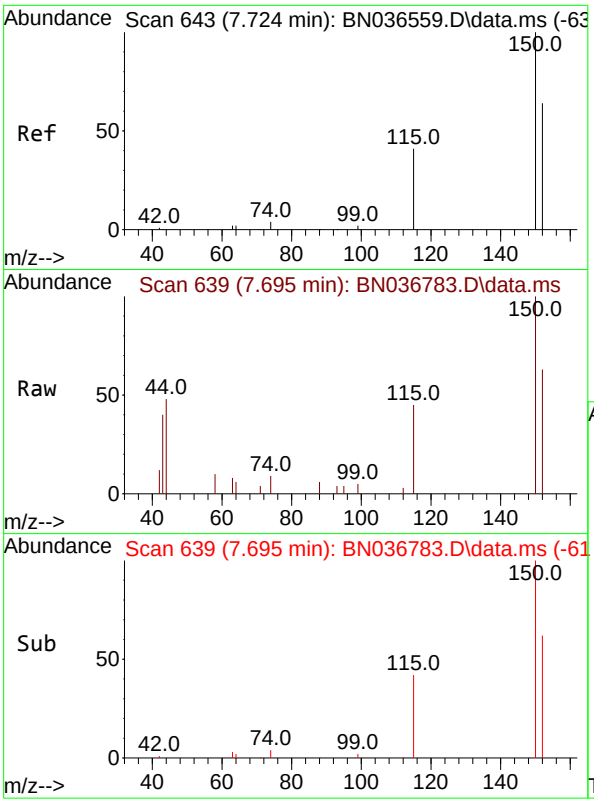
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036783.D
Acq On : 28 Mar 2025 21:14
Operator : RC/JU
Sample : Q1608-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Quant Time: Mar 28 22:53:09 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



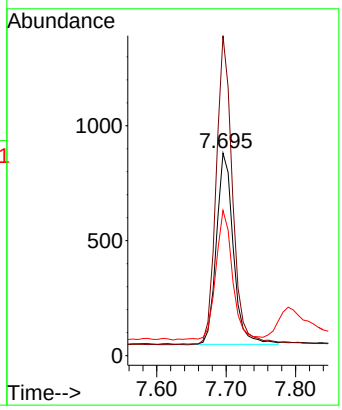


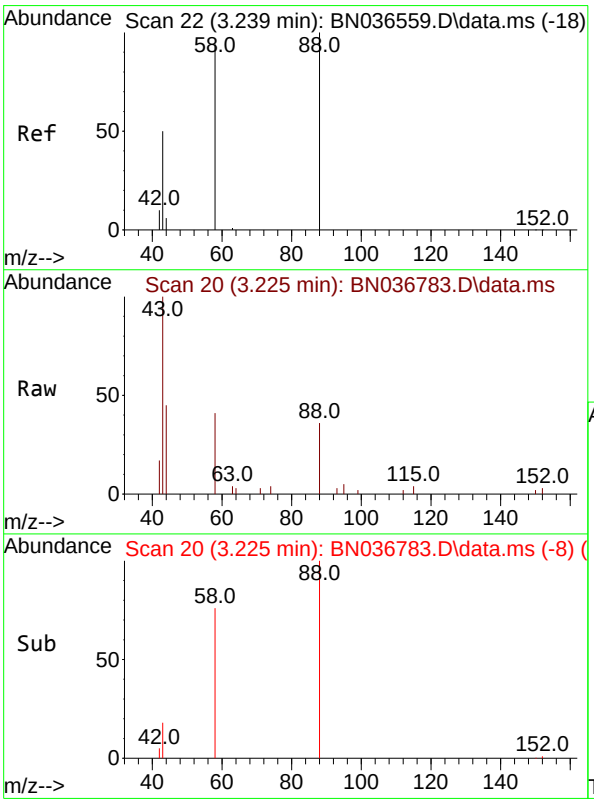
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Tgt Ion:152 Resp: 1407

Ion	Ratio	Lower	Upper
152	100		
150	158.0	123.7	185.5
115	71.7	54.3	81.5

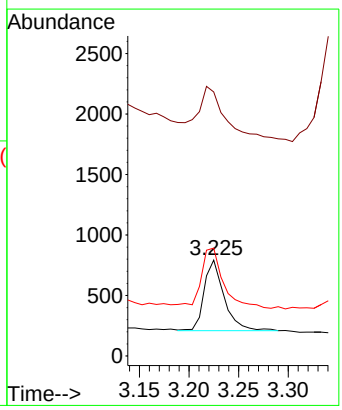


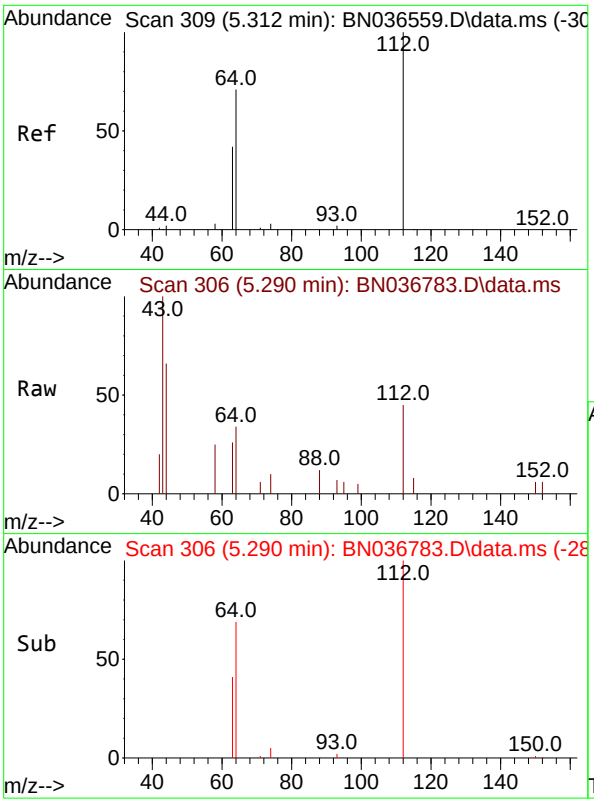


#2
1,4-Dioxane
Concen: 0.527 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Tgt Ion: 88 Resp: 822

Ion	Ratio	Lower	Upper
88	100		
43	98.1	37.8	56.8#
58	95.0	67.4	101.2



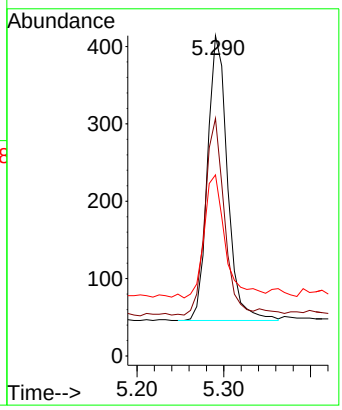


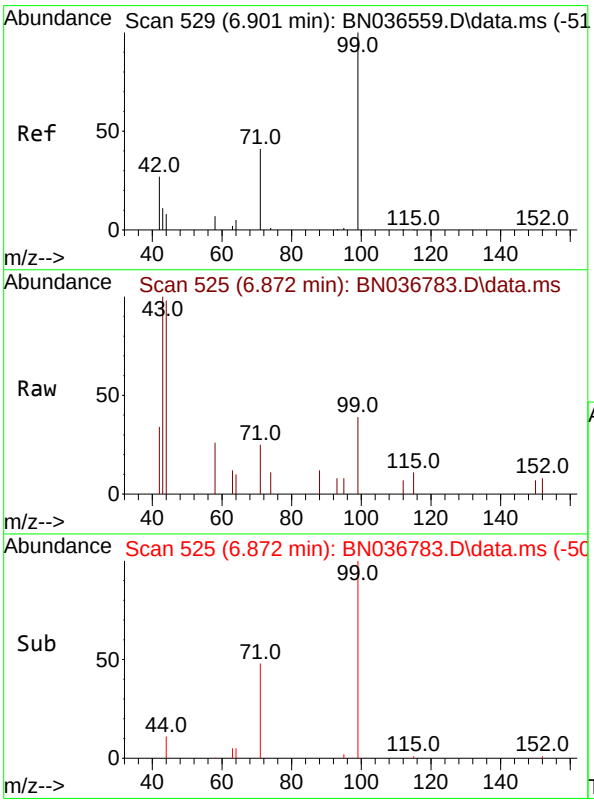
#4
2-Fluorophenol
Concen: 0.179 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Tgt Ion:112 Resp: 587

Ion	Ratio	Lower	Upper
112	100		
64	66.4	53.1	79.7
63	45.3	31.8	47.8

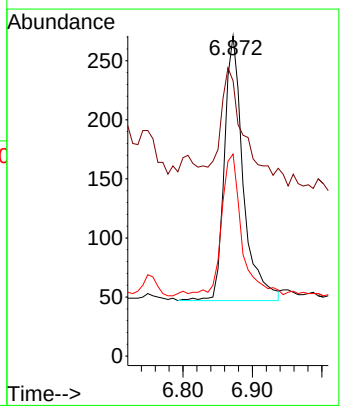


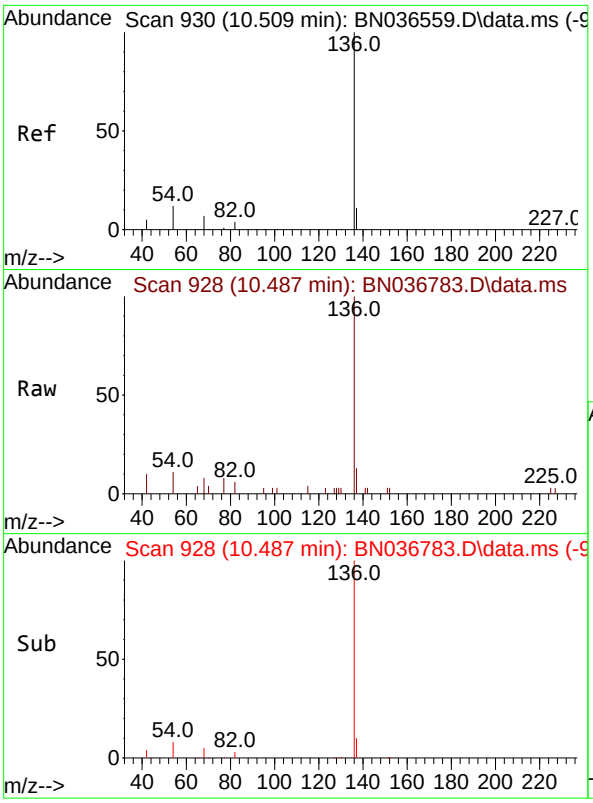


#5
Phenol-d6
Concen: 0.104 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Tgt Ion: 99 Resp: 423

Ion	Ratio	Lower	Upper
99	100		
42	57.4	26.5	39.7#
71	55.6	34.1	51.1#



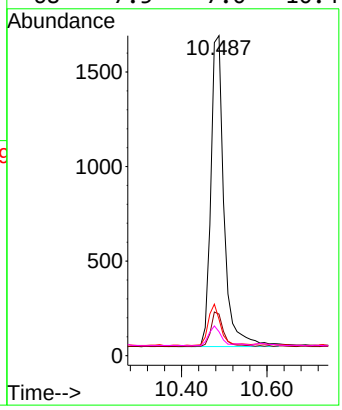


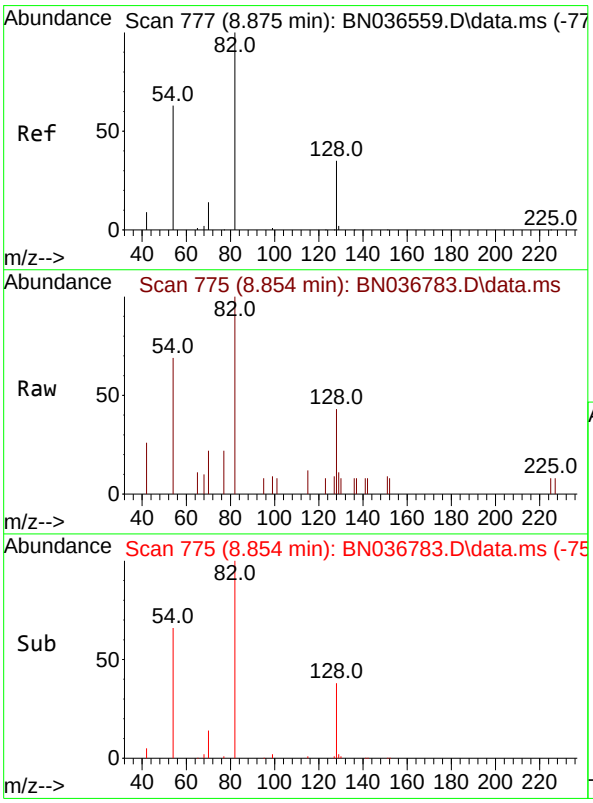
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Tgt Ion:136 Resp: 3532

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	11.4	11.5	17.3#
68	7.5	7.0	10.4

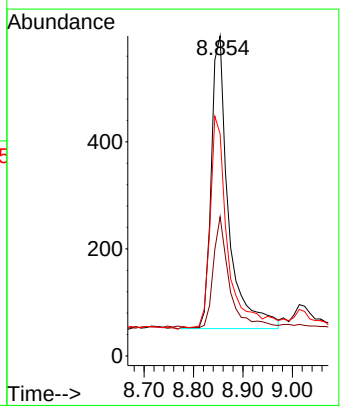


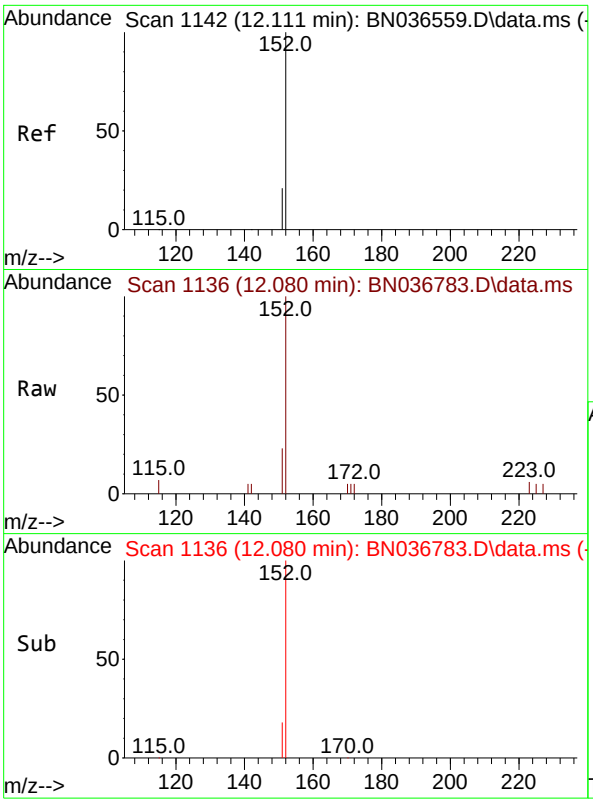


#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Tgt Ion: 82 Resp: 1330

Ion	Ratio	Lower	Upper
82	100		
128	43.5	30.6	45.8
54	69.4	52.2	78.4



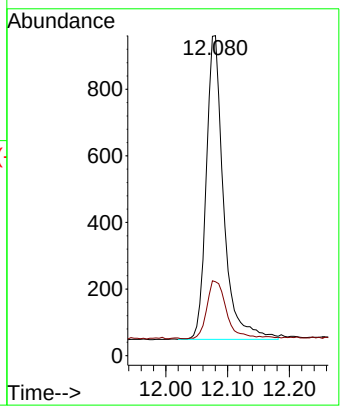


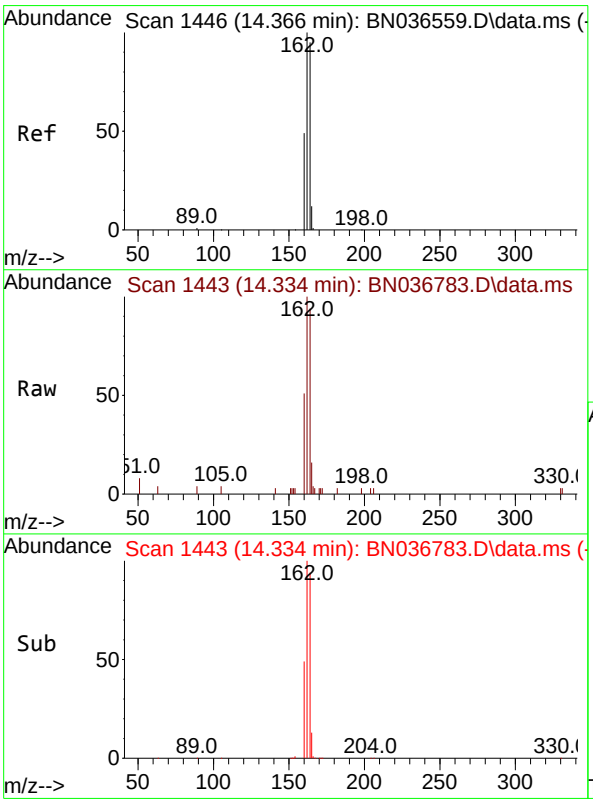
#11
2-Methylnaphthalene-d10
Concen: 0.339 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Tgt Ion:152 Resp: 1782

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

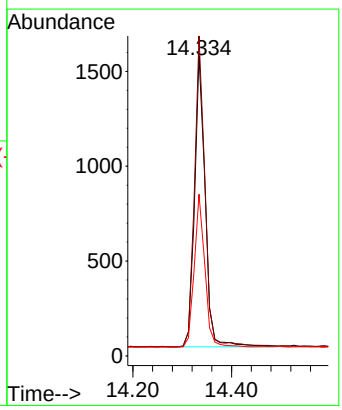


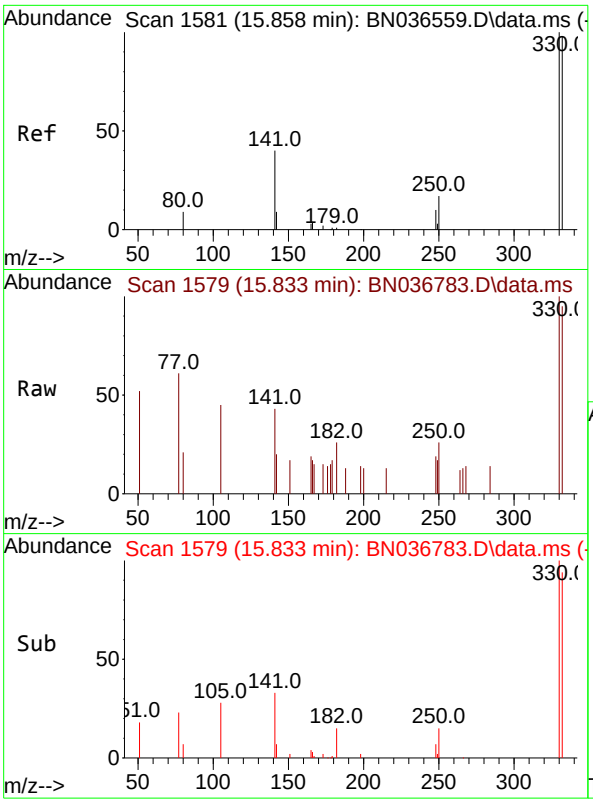


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Tgt Ion:164 Resp: 2299

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.2
160	53.8	42.2	63.2



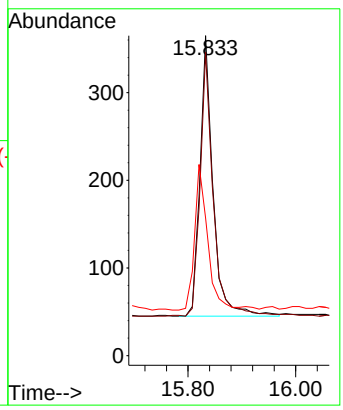


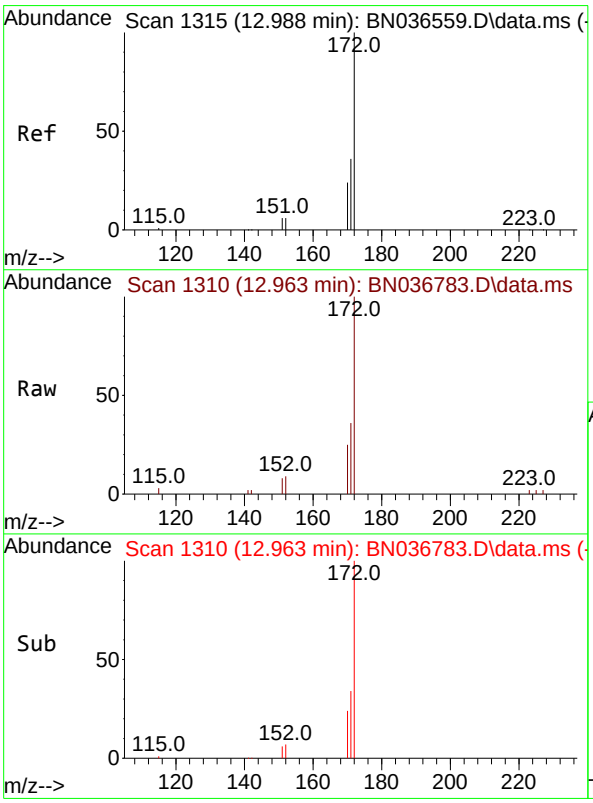
#14
2,4,6-Tribromophenol
Concen: 0.519 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Tgt Ion:330 Resp: 541

Ion	Ratio	Lower	Upper
330	100		
332	94.1	75.2	112.8
141	52.5	43.4	65.2

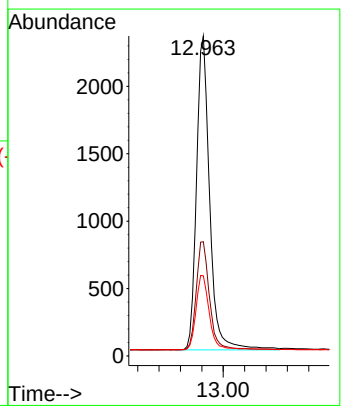


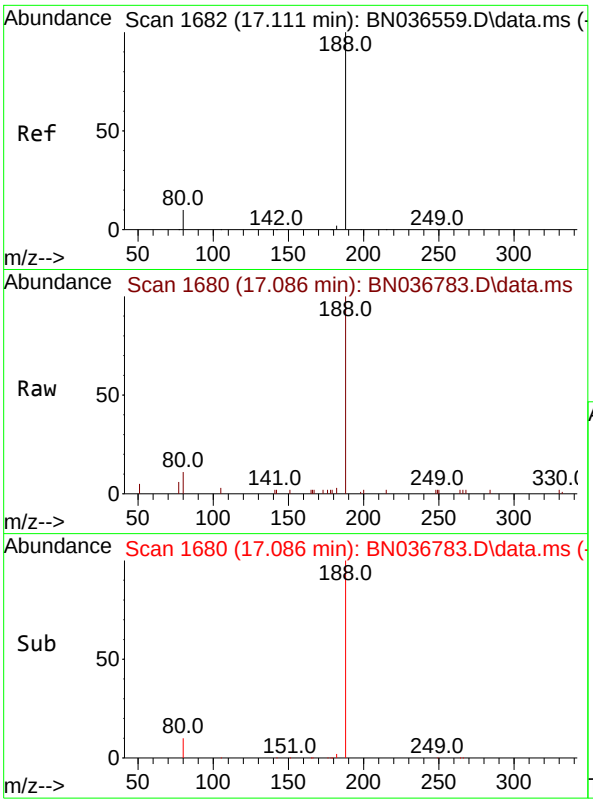


#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Tgt Ion:172 Resp: 5324

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.5	44.3
170	25.1	20.2	30.4



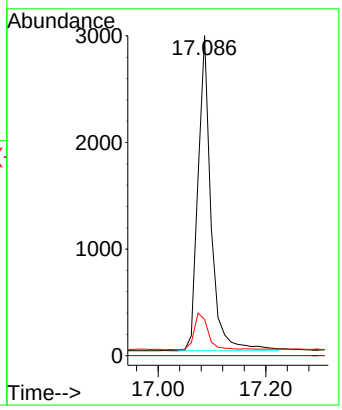


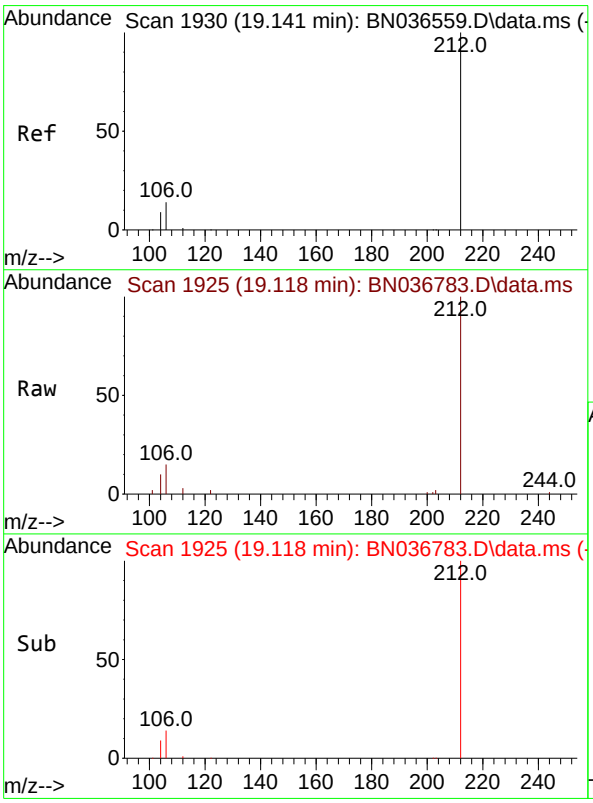
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Tgt Ion:188 Resp: 4965

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.4	8.8	13.2

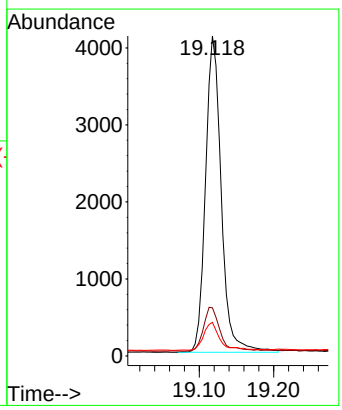


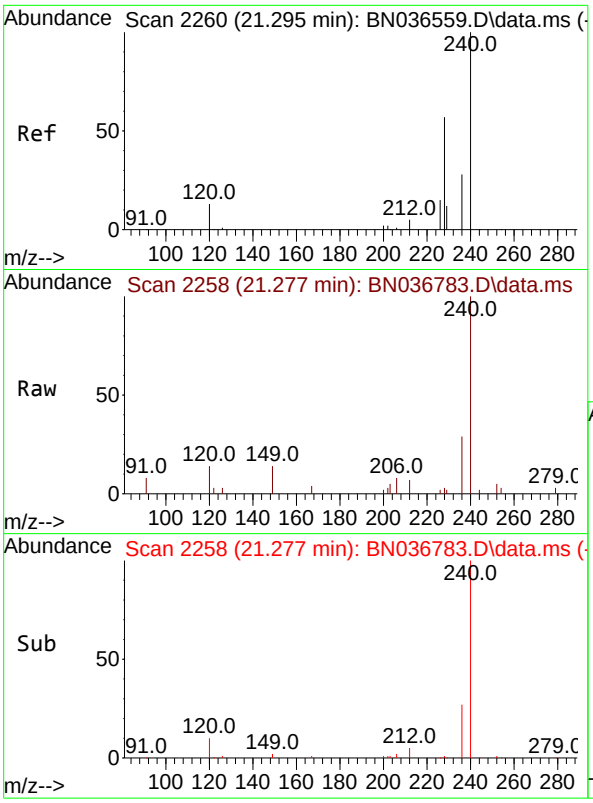


#27
Fluoranthene-d10
Concen: 0.474 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Tgt Ion:212 Resp: 6029

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	9.4	7.3	10.9



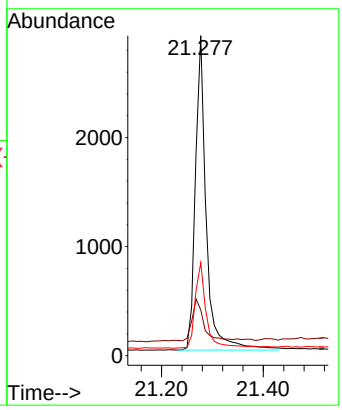


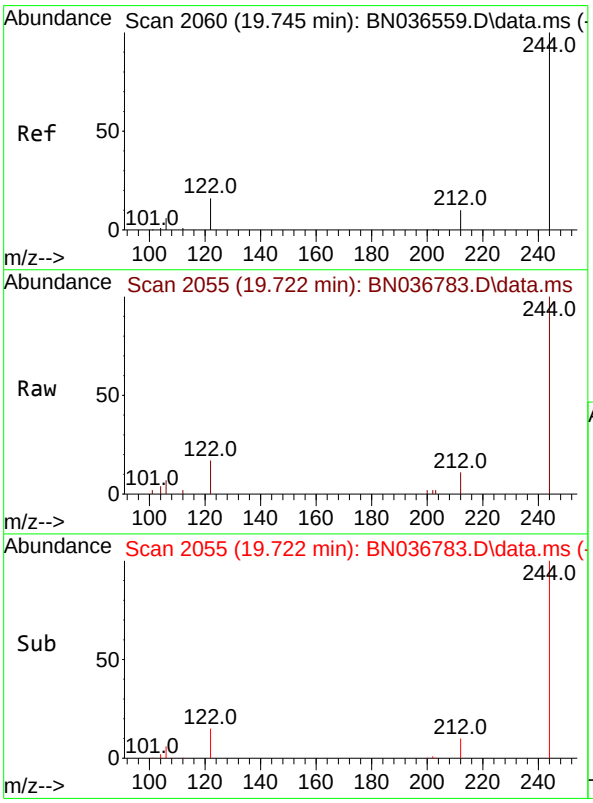
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Tgt Ion:240 Resp: 4273

Ion	Ratio	Lower	Upper
240	100		
120	14.3	14.6	22.0#
236	29.0	24.1	36.1

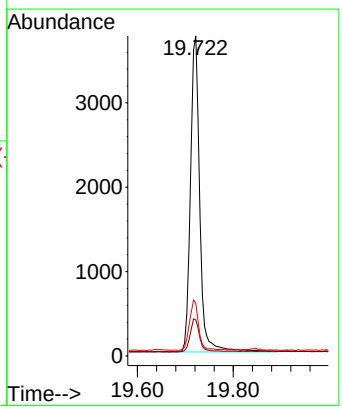


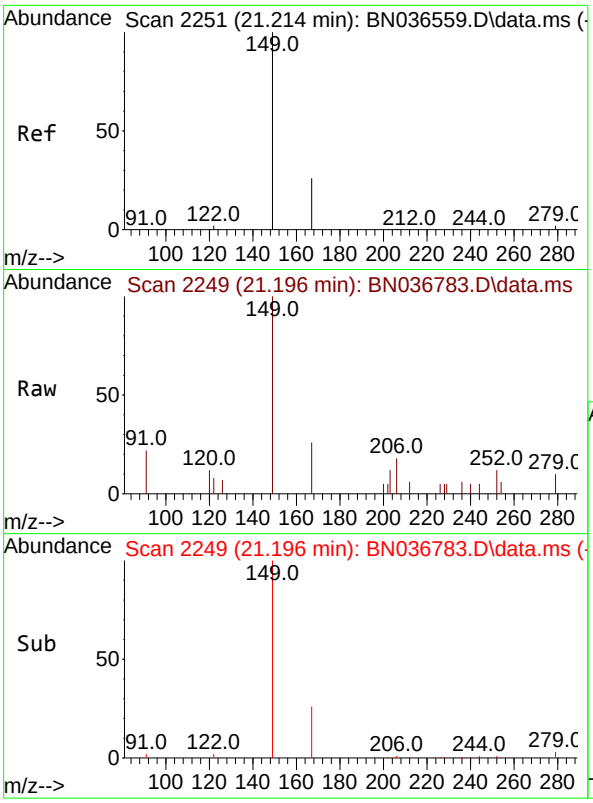


#31
Terphenyl-d14
Concen: 0.497 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Tgt Ion:244 Resp: 5083

Ion	Ratio	Lower	Upper
244	100		
212	11.2	9.6	14.4
122	16.5	13.9	20.9



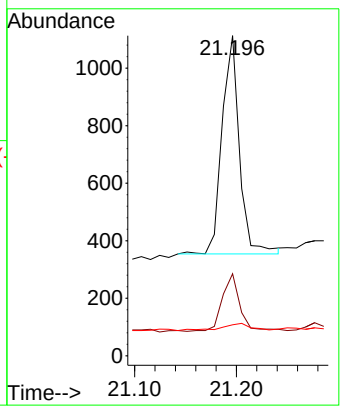


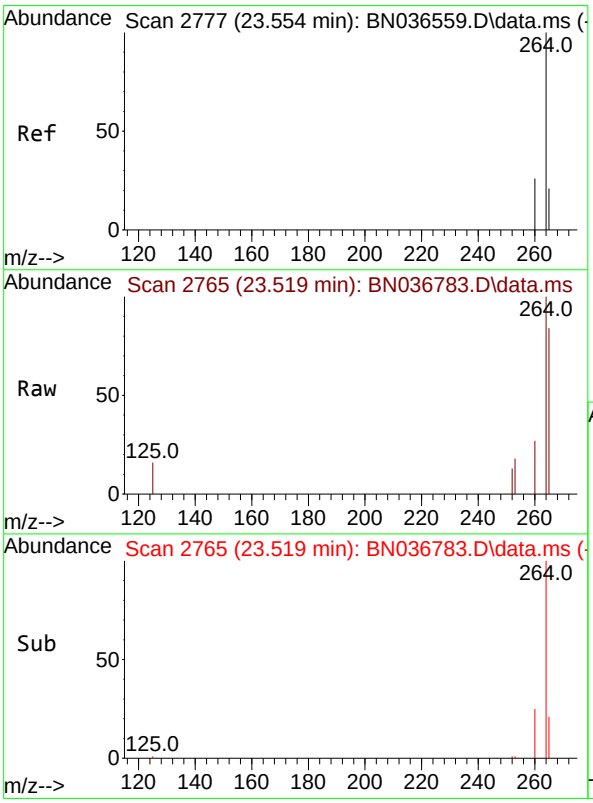
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.085 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Instrument :
BNA_N
ClientSampleId :
DUP07-20250317

Tgt Ion:149 Resp: 900

Ion	Ratio	Lower	Upper
149	100		
167	27.2	20.7	31.1
279	5.3	3.6	5.4

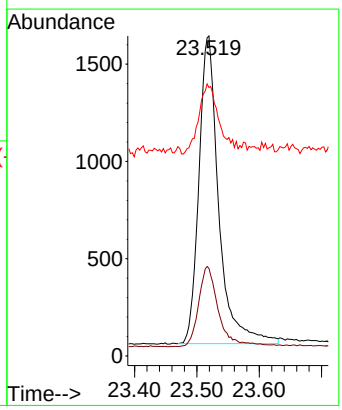




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036783.D
Acq: 28 Mar 2025 21:14

Tgt Ion:264 Resp: 3489

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	83.9	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:	AECOM Technical Services, Inc.	Date Collected:	03/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	TT163S1-20250317	SDG No.:	Q1608
Lab Sample ID:	Q1608-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036784.D	1	03/20/25 10:49	03/28/25 21:51	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1740	7.696				
1146-65-2	Naphthalene-d8	4220	10.487				
15067-26-2	Acenaphthene-d10	2600	14.334				
1517-22-2	Phenanthrene-d10	5470	17.086				
1719-03-5	Chrysene-d12	4420	21.277				
1520-96-3	Perylene-d12	3770	23.519				

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\BN032825\
Data File : BN036784.D
Acq On : 28 Mar 2025 21:51
Operator : RC/JU
Sample : Q1608-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Quant Time: Mar 28 22:53:21 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 16:06:28 2025
Response via : Initial Calibration

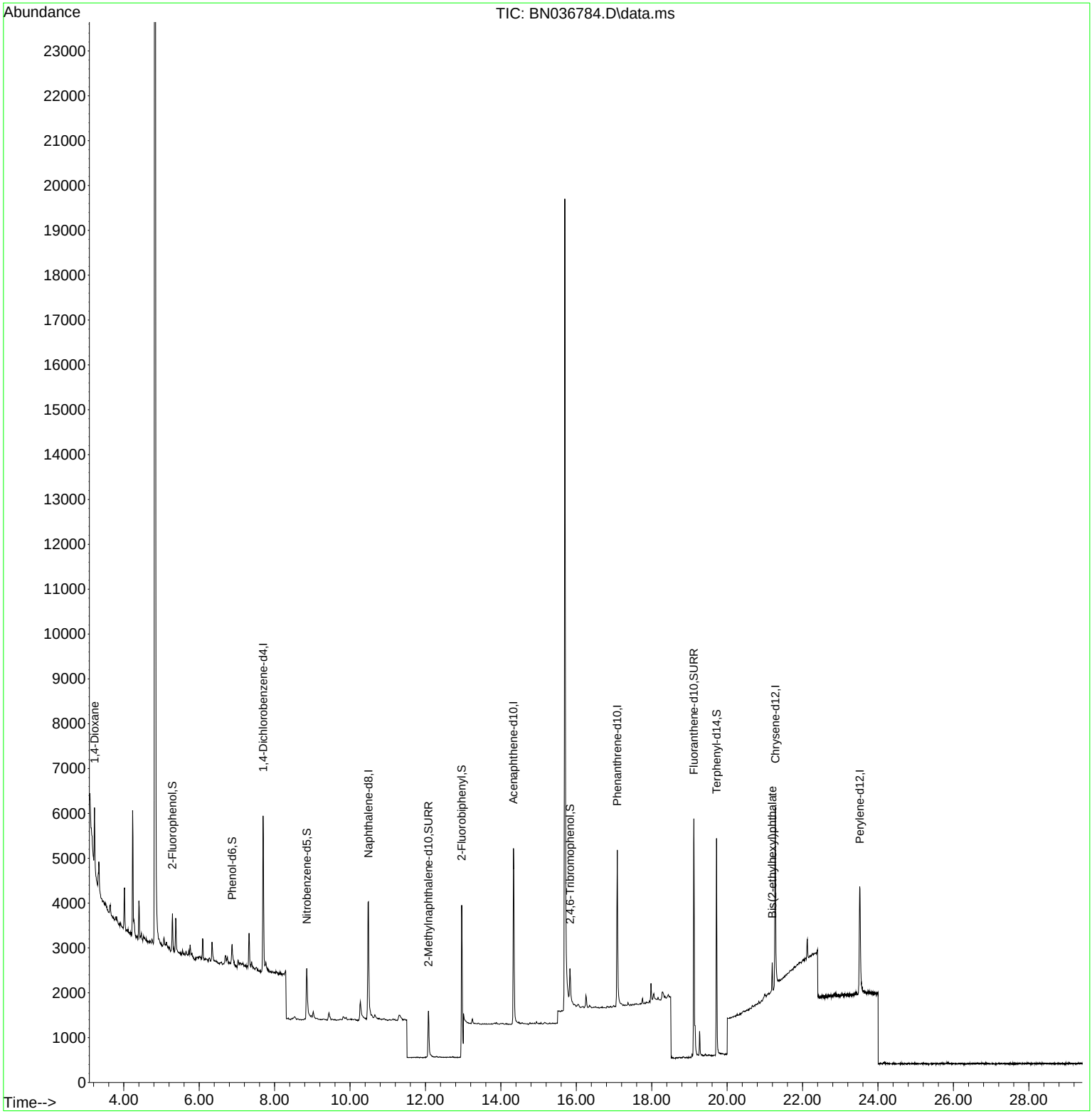
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1736	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	4215	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2595	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5466	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4415	0.400	ng	#-0.02
35) Perylene-d12	23.519	264	3766	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	587	0.145	ng	-0.02
5) Phenol-d6	6.872	99	405	0.081	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1298	0.283	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1769	0.282	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	466	0.396	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5174	0.343	ng	-0.03
27) Fluoranthene-d10	19.118	212	6371	0.455	ng	-0.02
31) Terphenyl-d14	19.717	244	4860	0.459	ng	-0.03
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	700	0.363	ng	# 63
34) Bis(2-ethylhexyl)phtha...	21.196	149	645	0.059	ng	# 98

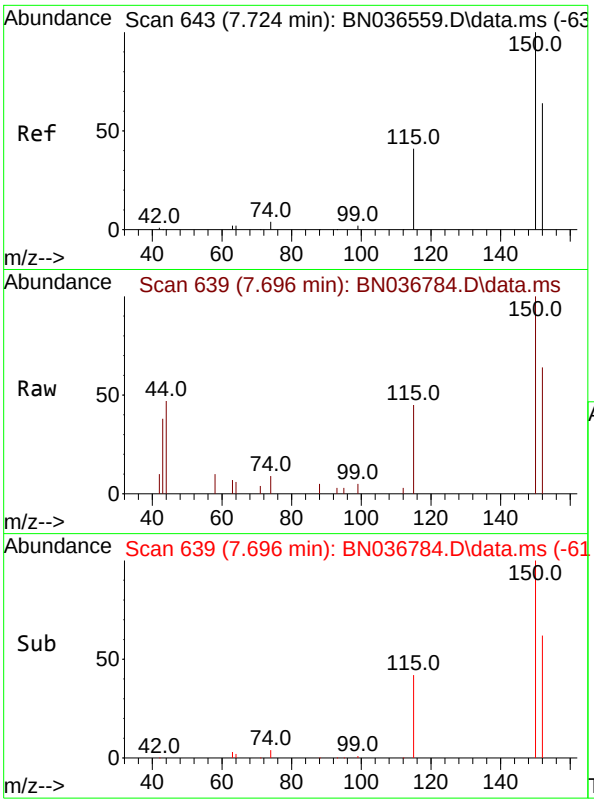
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Data File : BN036784.D
Acq On : 28 Mar 2025 21:51
Operator : RC/JU
Sample : Q1608-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Quant Time: Mar 28 22:53:21 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 16:06:28 2025
Response via : Initial Calibration



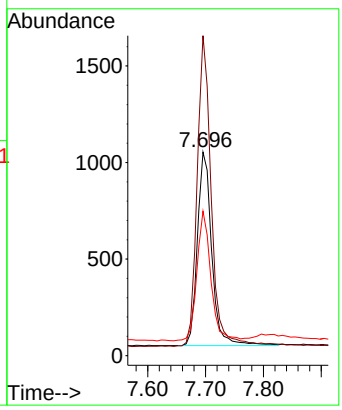


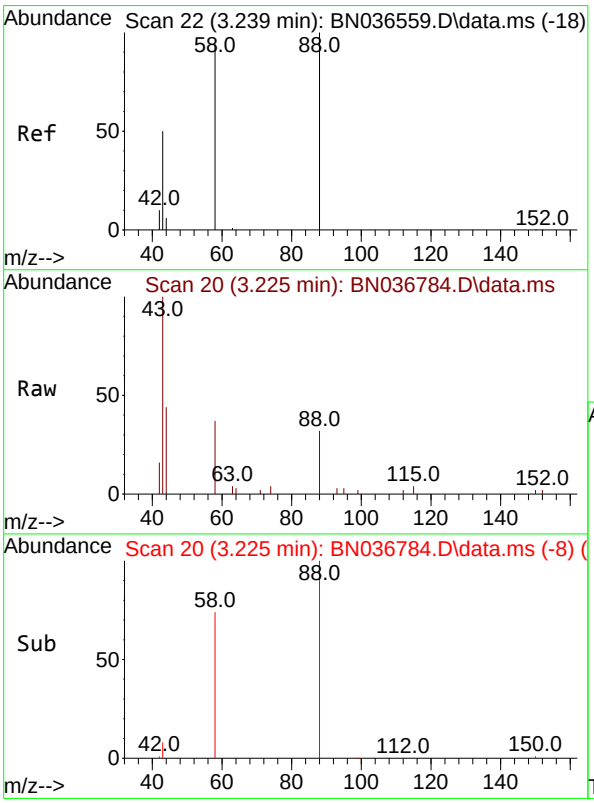
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Tgt Ion:152 Resp: 1736

Ion	Ratio	Lower	Upper
152	100		
150	157.2	123.7	185.5
115	71.0	54.3	81.5

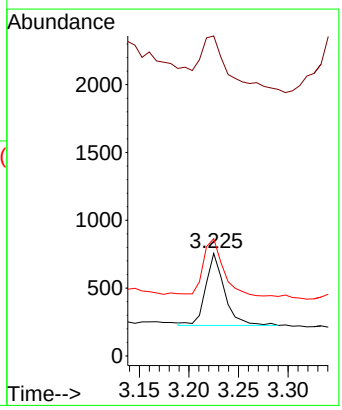


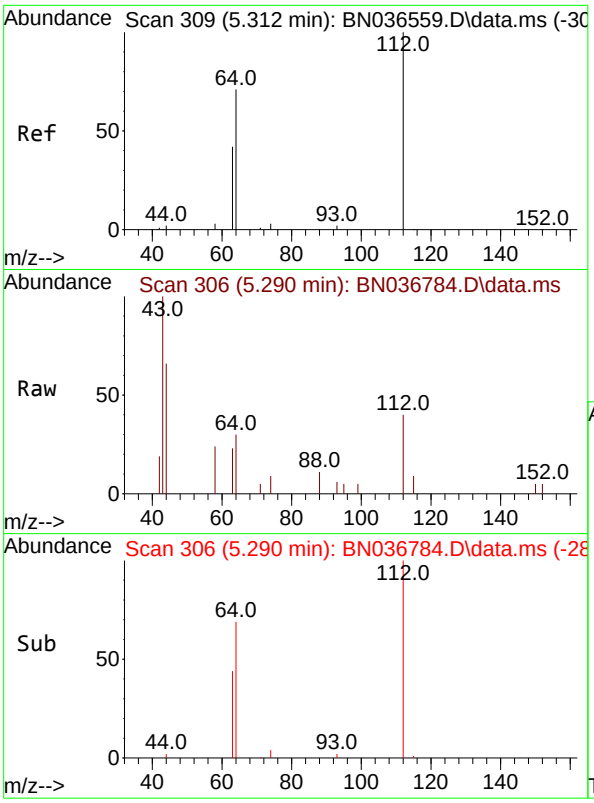


#2
1,4-Dioxane
Concen: 0.363 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Tgt Ion: 88 Resp: 700

Ion	Ratio	Lower	Upper
88	100		
43	116.6	37.8	56.8#
58	84.4	67.4	101.2



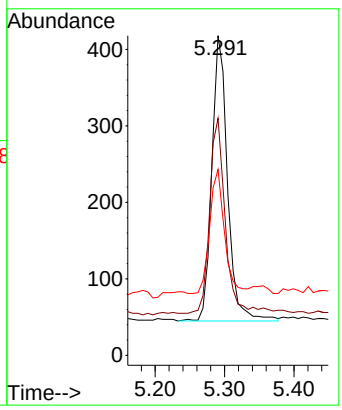


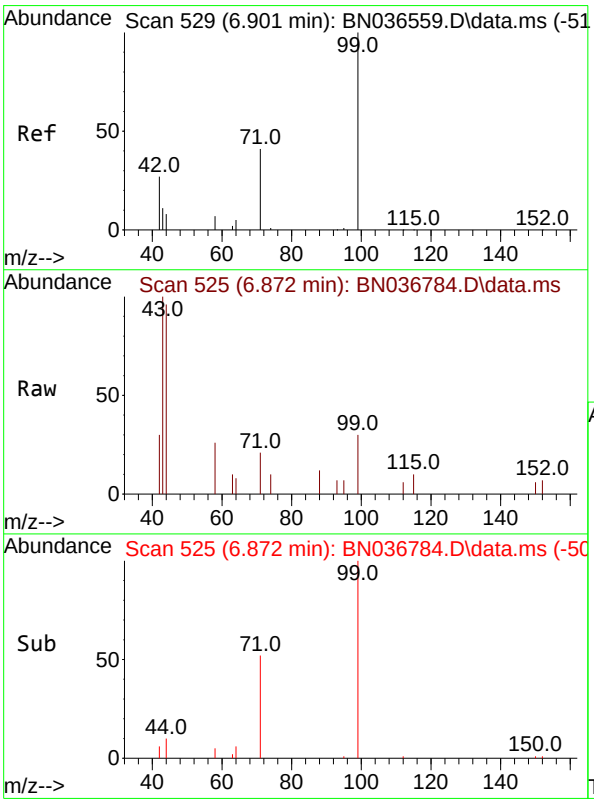
#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Tgt Ion:112 Resp: 587

Ion	Ratio	Lower	Upper
112	100		
64	68.7	53.1	79.7
63	41.7	31.8	47.8

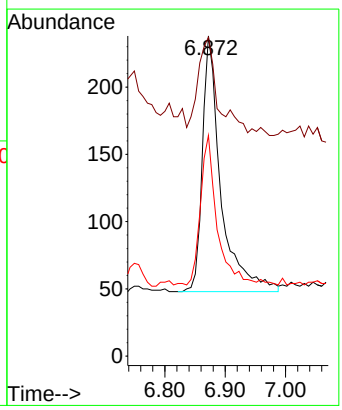


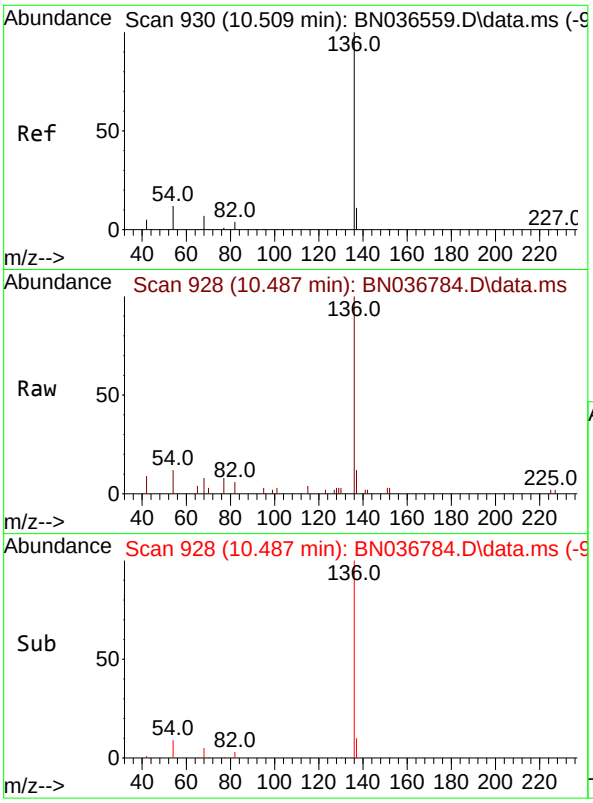


#5
Phenol-d6
Concen: 0.081 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Tgt Ion: 99 Resp: 405

Ion	Ratio	Lower	Upper
99	100		
42	30.4	26.5	39.7
71	50.9	34.1	51.1



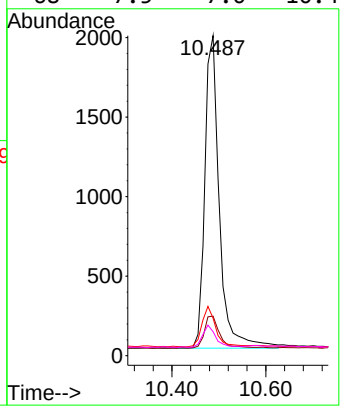


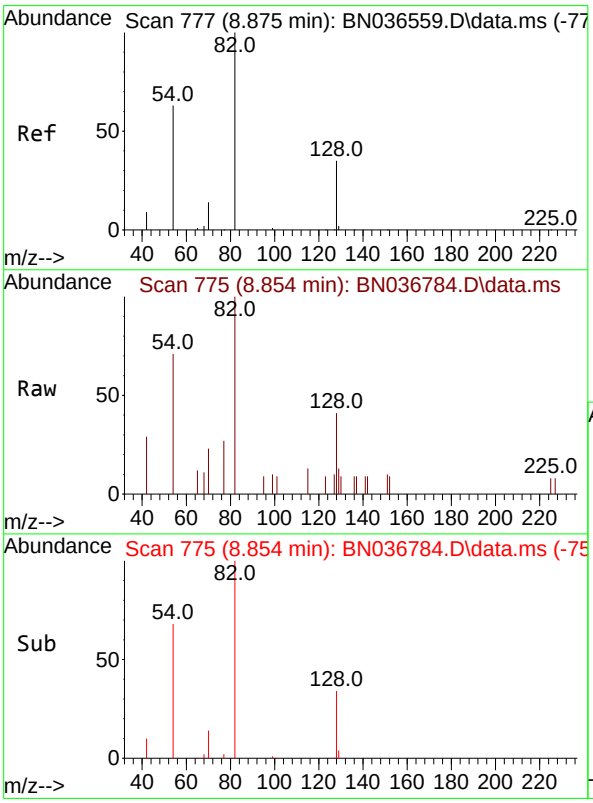
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Tgt Ion:136 Resp: 4215

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.7	11.5	17.3
68	7.5	7.0	10.4

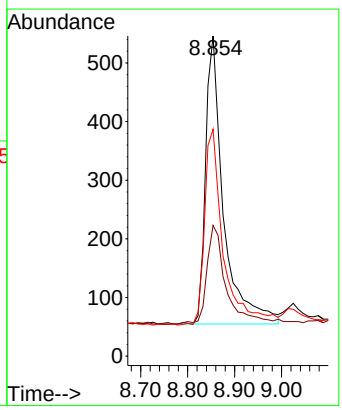


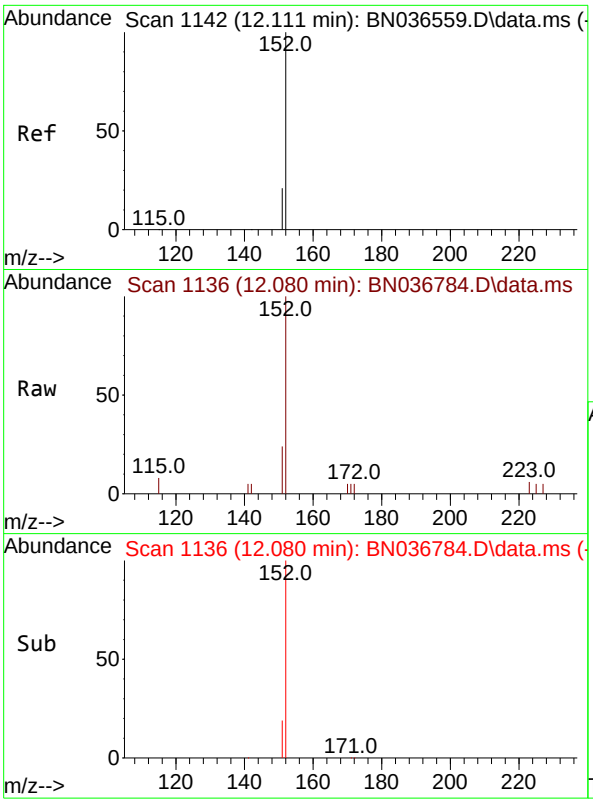


#8
Nitrobenzene-d5
Concen: 0.283 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Tgt Ion: 82 Resp: 1298

Ion	Ratio	Lower	Upper
82	100		
128	40.8	30.6	45.8
54	70.9	52.2	78.4



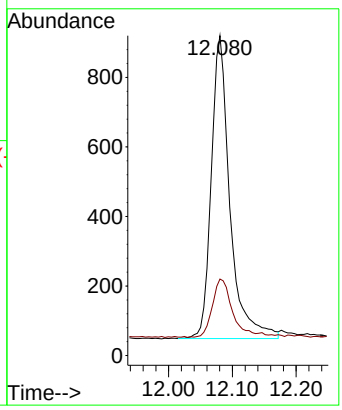


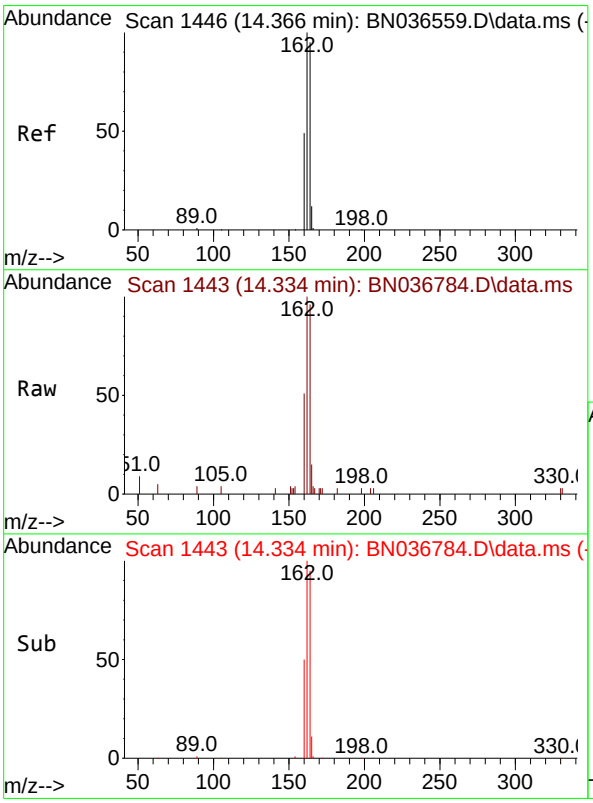
#11
2-Methylnaphthalene-d10
Concen: 0.282 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Tgt Ion:152 Resp: 1769

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

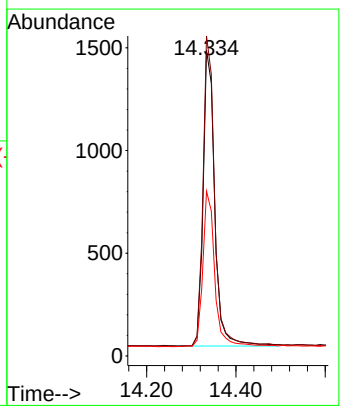


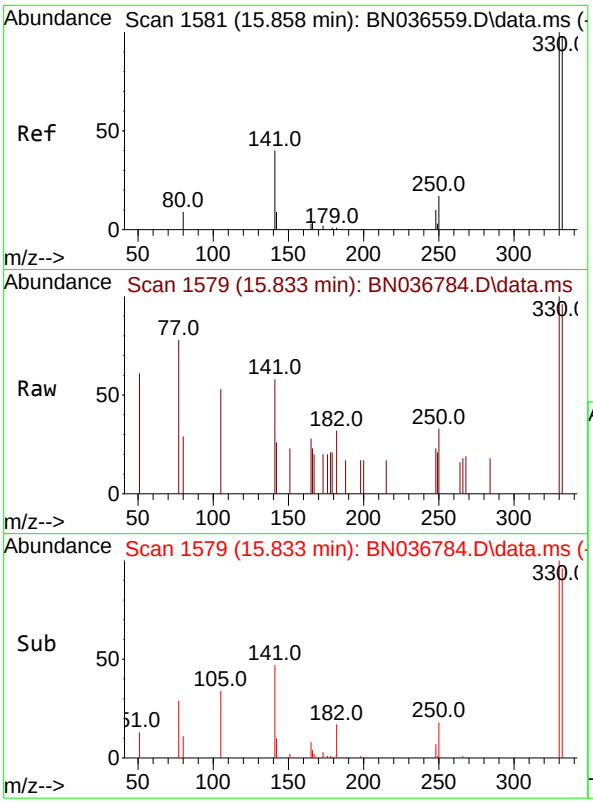


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Tgt Ion:164 Resp: 2595

Ion	Ratio	Lower	Upper
164	100		
162	104.6	84.2	126.2
160	53.9	42.2	63.2



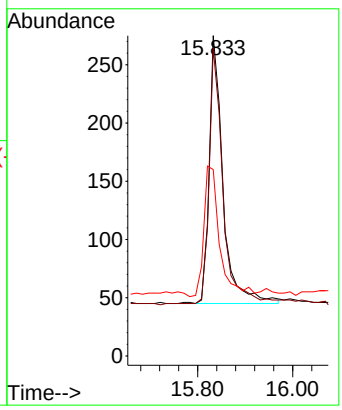


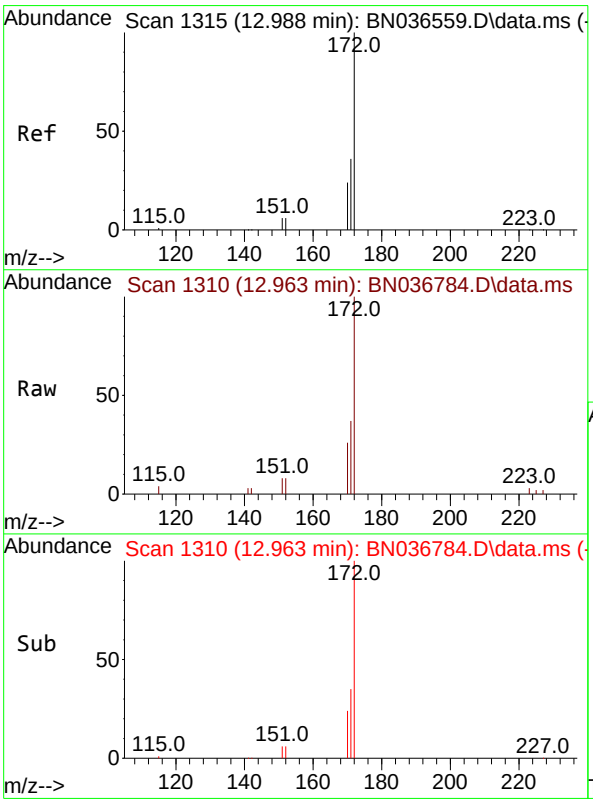
#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Tgt Ion:330 Resp: 466

Ion	Ratio	Lower	Upper
330	100		
332	93.8	75.2	112.8
141	56.2	43.4	65.2

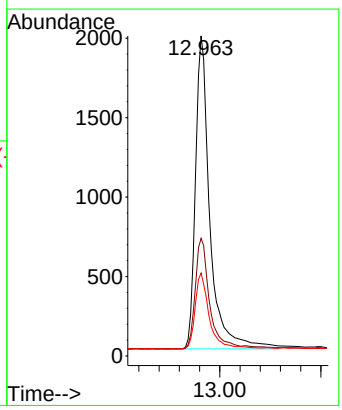


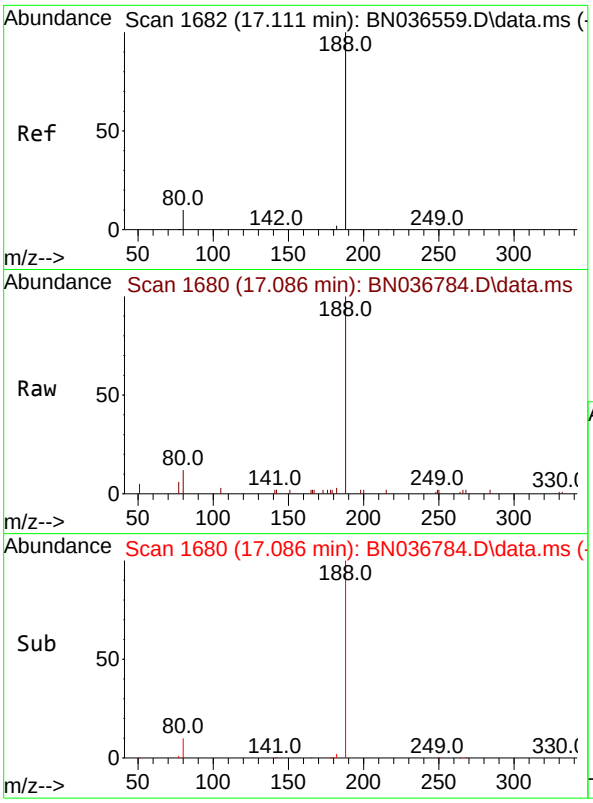


#15
2-Fluorobiphenyl
Concen: 0.343 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Tgt Ion:172 Resp: 5174

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.5	44.3
170	25.9	20.2	30.4



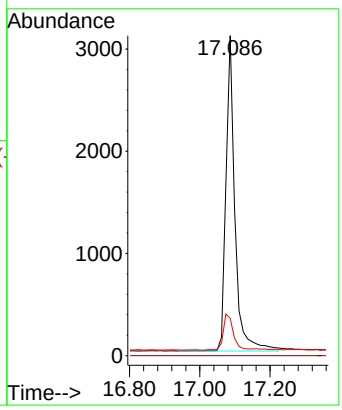


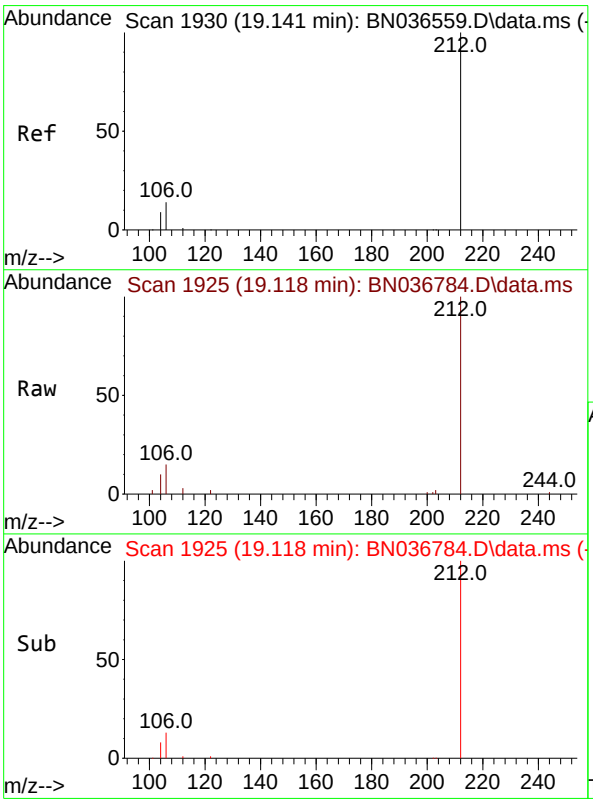
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Tgt Ion:188 Resp: 5466

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	8.8	13.2

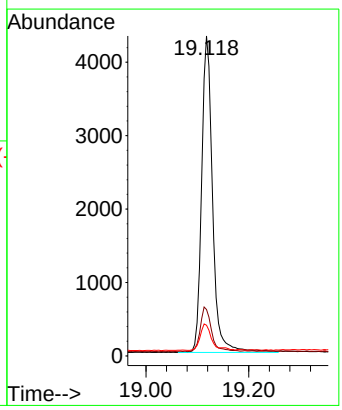


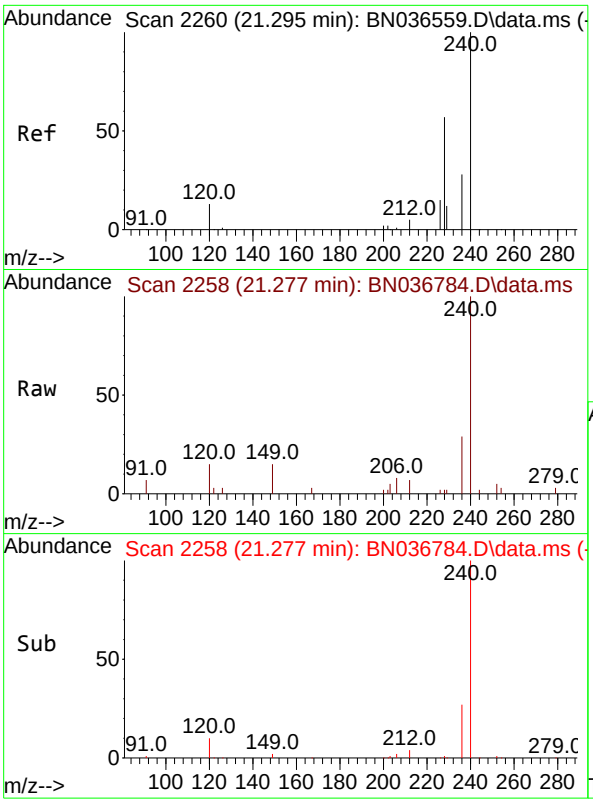


#27
Fluoranthene-d10
Concen: 0.455 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Tgt Ion:212 Resp: 6371

Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.8	17.6
104	8.8	7.3	10.9



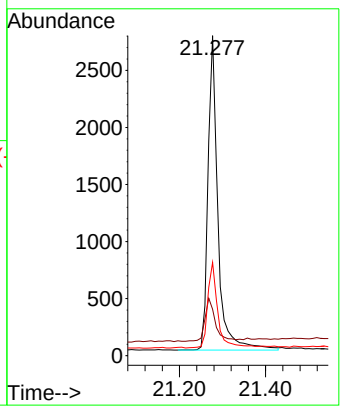


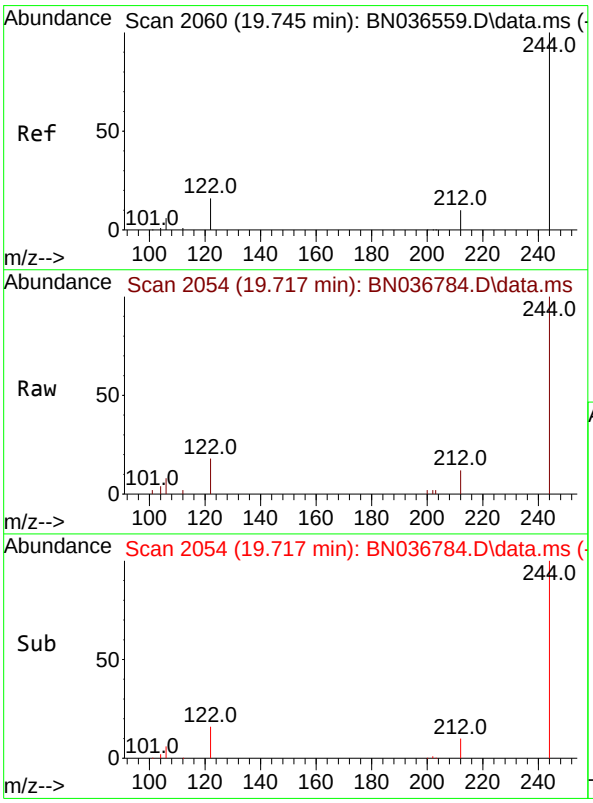
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Tgt Ion:240 Resp: 4415

Ion	Ratio	Lower	Upper
240	100		
120	14.5	14.6	22.0#
236	29.1	24.1	36.1

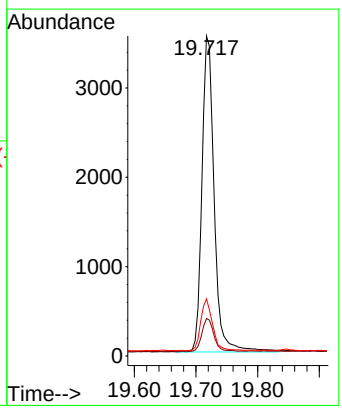


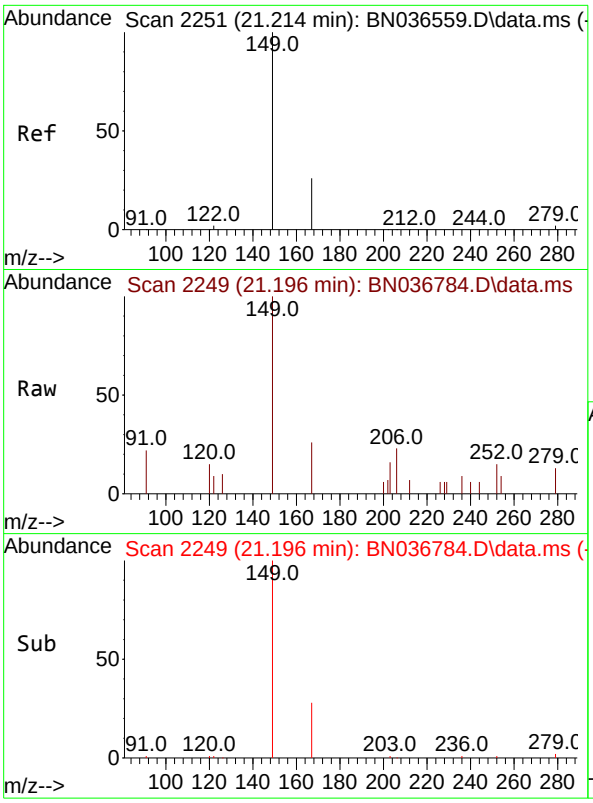


#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.028 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Tgt Ion:244 Resp: 4860

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	17.8	13.9	20.9



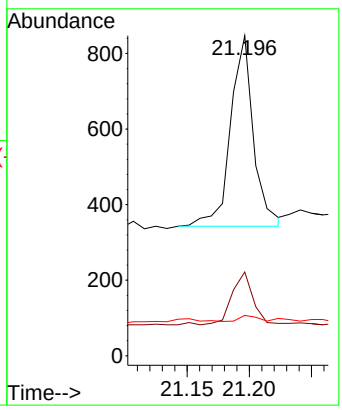


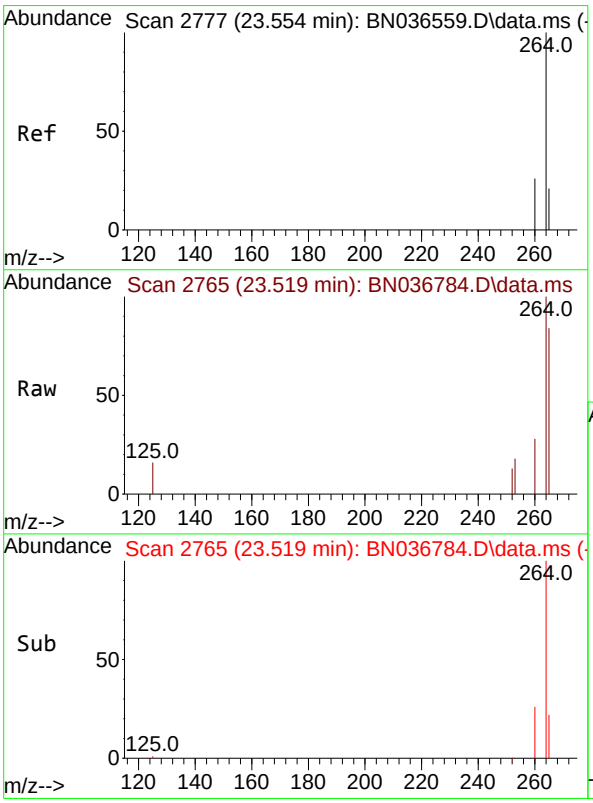
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.059 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250317

Tgt Ion:149 Resp: 645

Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.7	31.1
279	3.6	3.6	5.4#

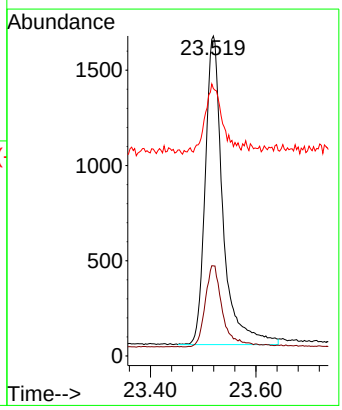




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036784.D
Acq: 28 Mar 2025 21:51

Tgt Ion:264 Resp: 3766

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	83.6	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:	AECOM Technical Services, Inc.	Date Collected:	03/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RW11-MW01S-20250317	SDG No.:	Q1608
Lab Sample ID:	Q1608-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036785.D	1	03/20/25 10:49	03/28/25 22:26	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.14	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1340	7.695				
1146-65-2	Naphthalene-d8	3440	10.487				
15067-26-2	Acenaphthene-d10	2110	14.334				
1517-22-2	Phenanthrene-d10	4720	17.086				
1719-03-5	Chrysene-d12	3920	21.277				
1520-96-3	Perylene-d12	3290	23.519				

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\BN032825\
Data File : BN036785.D
Acq On : 28 Mar 2025 22:26
Operator : RC/JU
Sample : Q1608-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Quant Time: Mar 28 22:53:35 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

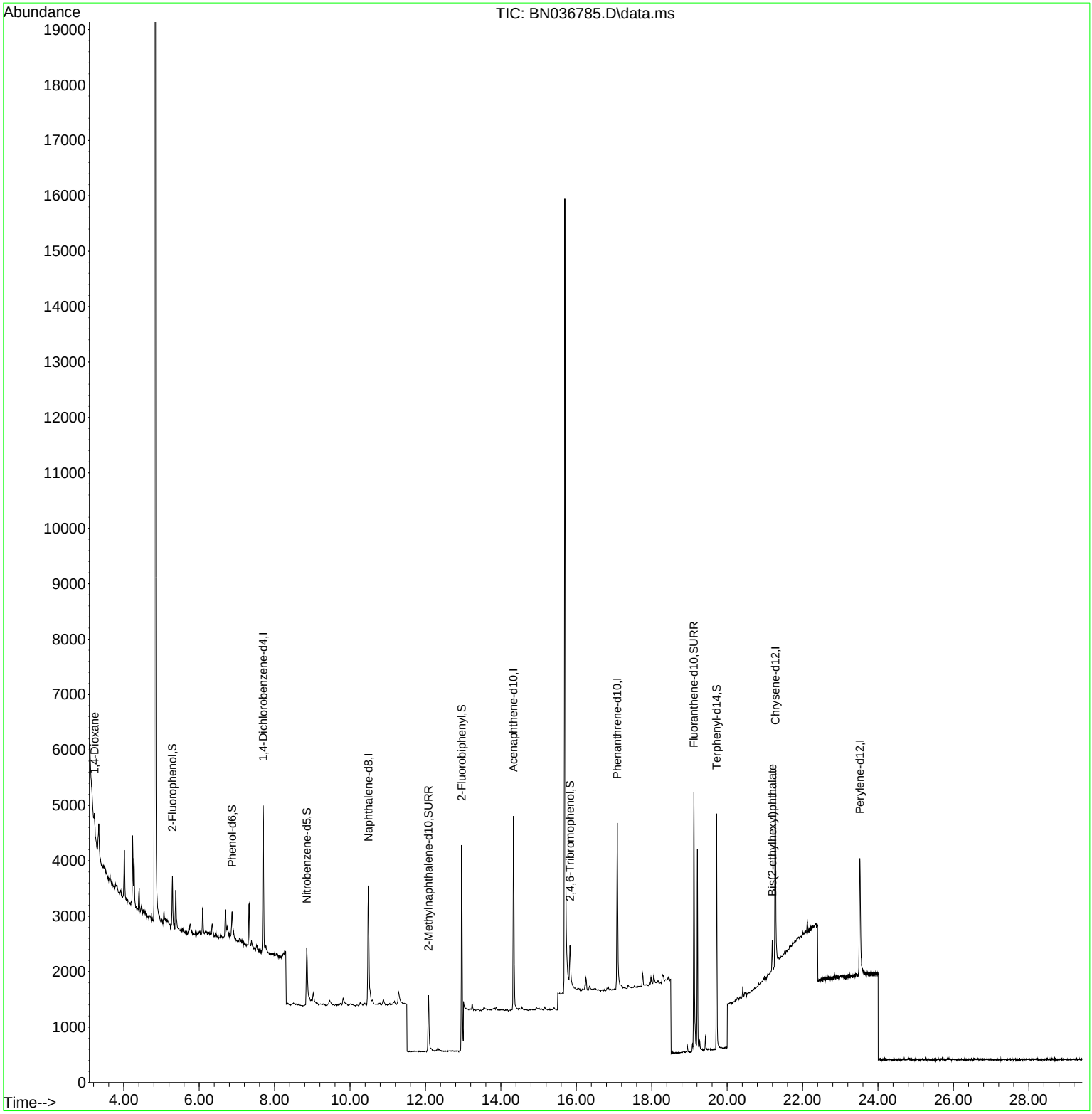
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1339	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3438	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2108	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4716	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3918	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3294	0.400	ng	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	664	0.213	ng	-0.02
5) Phenol-d6	6.872	99	497	0.129	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1262	0.337	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1779	0.348	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	462	0.483	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5155	0.420	ng	-0.03
27) Fluoranthene-d10	19.118	212	5629	0.466	ng	-0.02
31) Terphenyl-d14	19.722	244	4283	0.456	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	206	0.139	ng	# 72
34) Bis(2-ethylhexyl)phtha...	21.196	149	589	0.061	ng	# 95

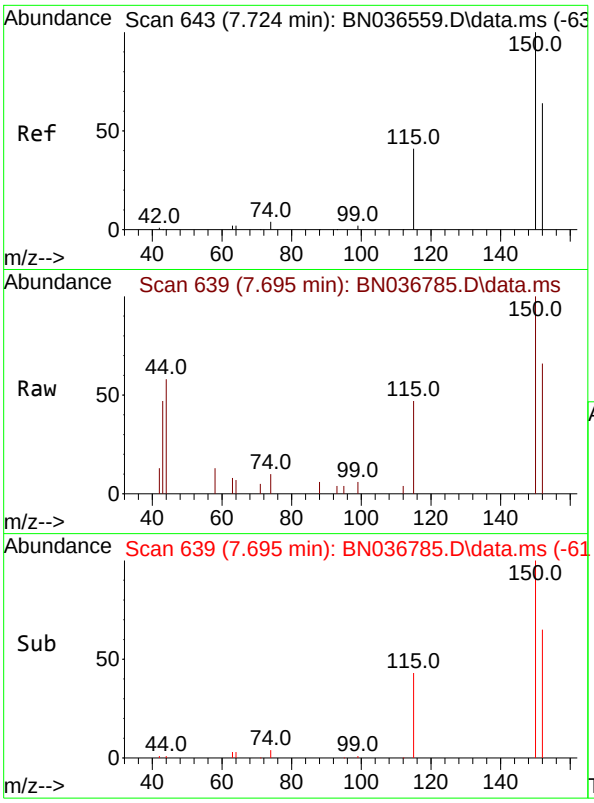
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036785.D
Acq On : 28 Mar 2025 22:26
Operator : RC/JU
Sample : Q1608-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Quant Time: Mar 28 22:53:35 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



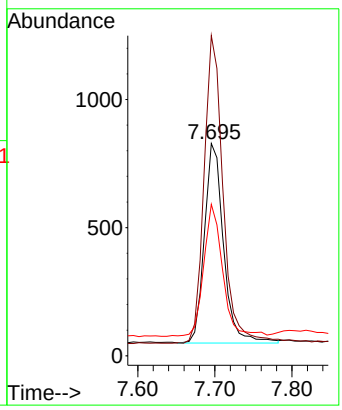


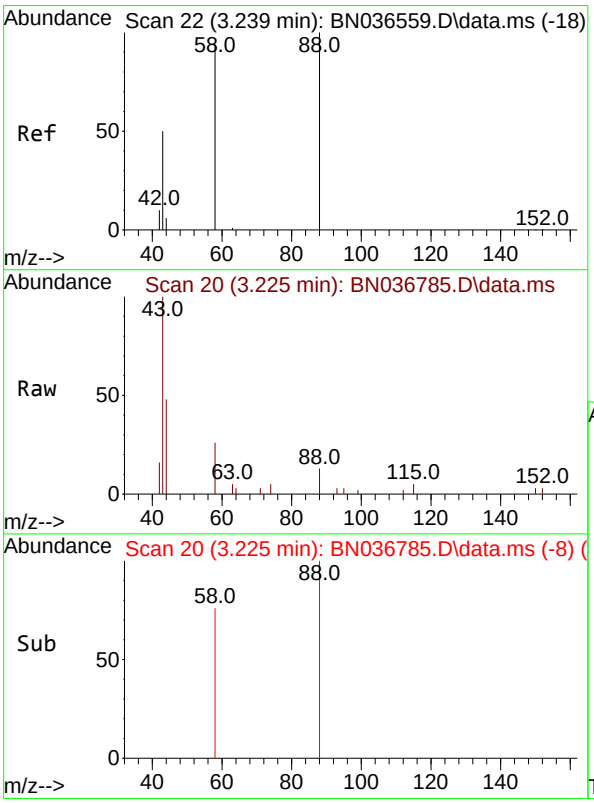
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Tgt Ion:152 Resp: 1339

Ion	Ratio	Lower	Upper
152	100		
150	150.8	123.7	185.5
115	71.4	54.3	81.5

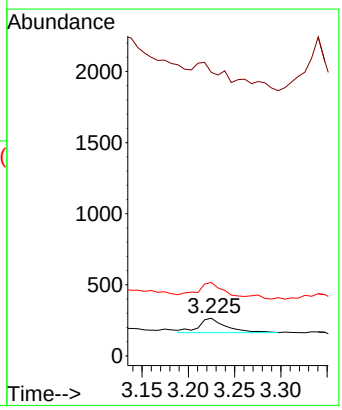


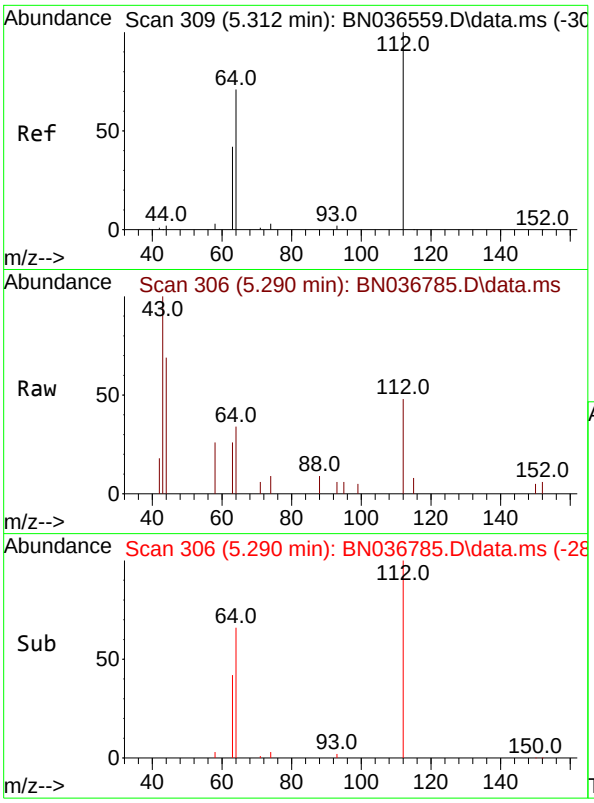


#2
1,4-Dioxane
Concen: 0.139 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Tgt Ion: 88 Resp: 206

Ion	Ratio	Lower	Upper
88	100		
43	0.0	37.8	56.8#
58	80.6	67.4	101.2



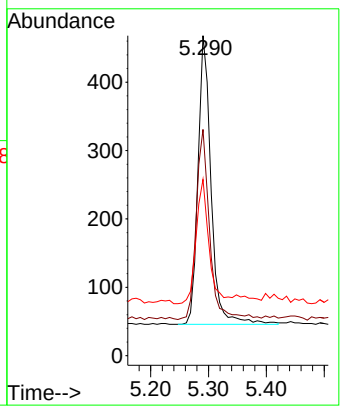


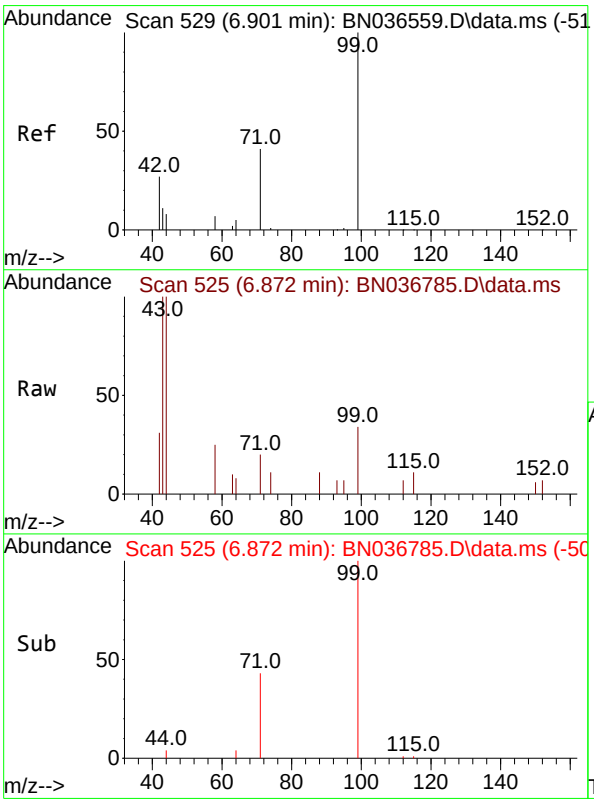
#4
2-Fluorophenol
Concen: 0.213 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Tgt Ion:112 Resp: 664

Ion	Ratio	Lower	Upper
112	100		
64	67.8	53.1	79.7
63	42.8	31.8	47.8

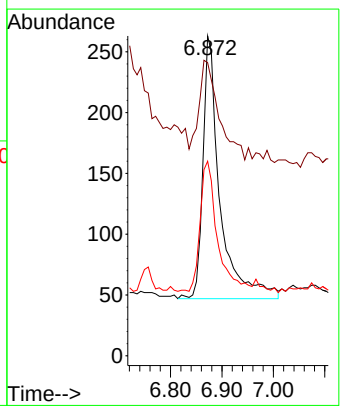


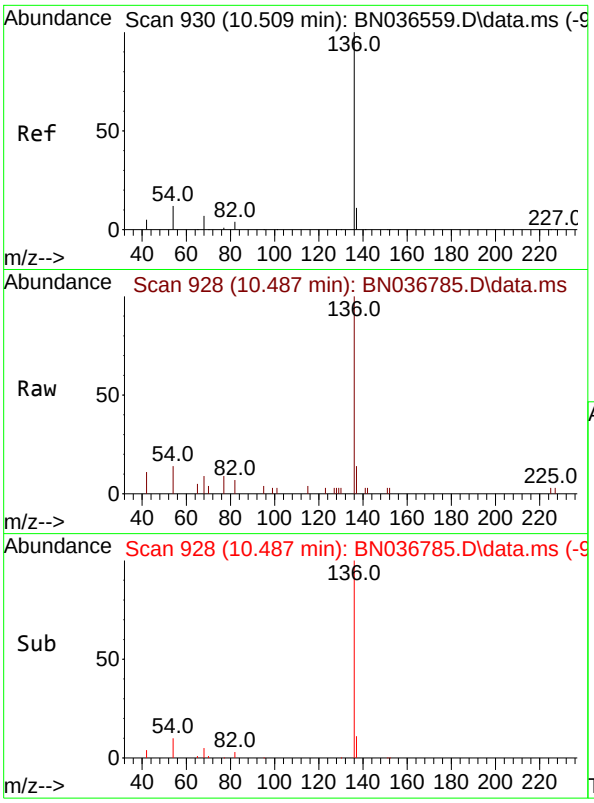


#5
Phenol-d6
Concen: 0.129 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Tgt Ion: 99 Resp: 497

Ion	Ratio	Lower	Upper
99	100		
42	44.9	26.5	39.7#
71	48.3	34.1	51.1



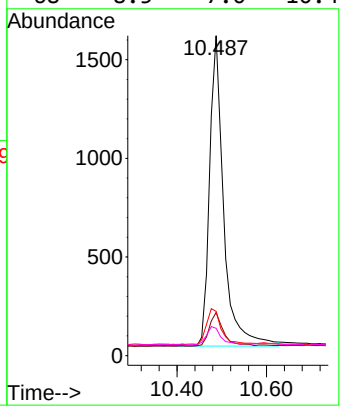


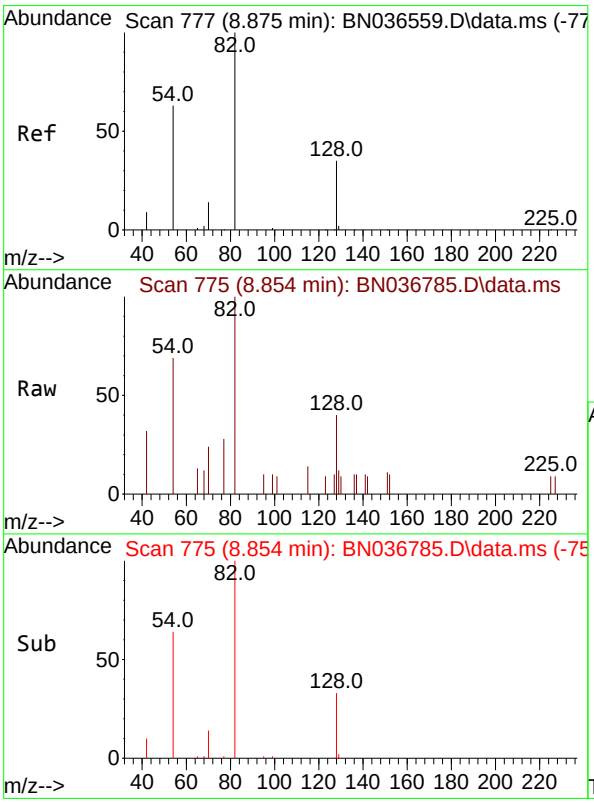
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Tgt Ion:136 Resp: 3438

Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.3	15.5
54	13.8	11.5	17.3
68	8.5	7.0	10.4

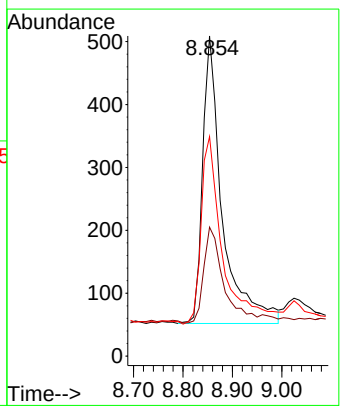


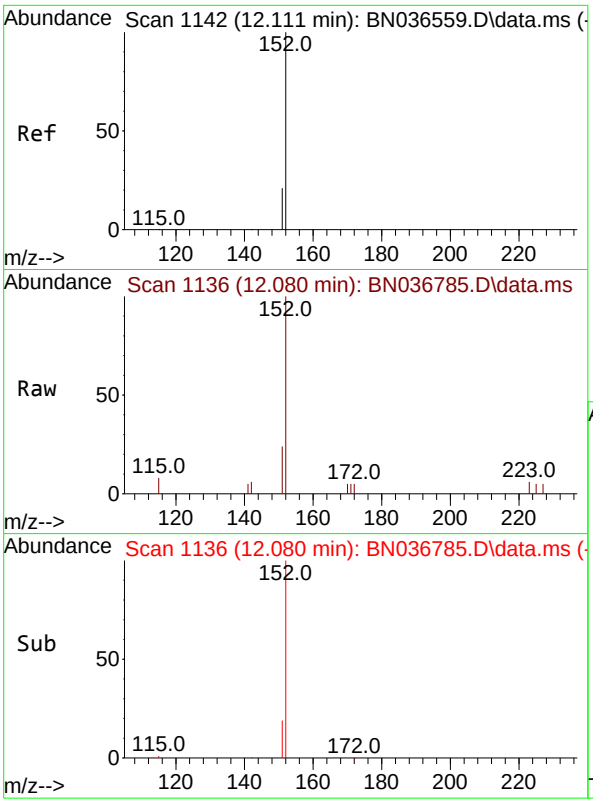


#8
Nitrobenzene-d5
Concen: 0.337 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Tgt Ion: 82 Resp: 1262

Ion	Ratio	Lower	Upper
82	100		
128	40.3	30.6	45.8
54	68.6	52.2	78.4



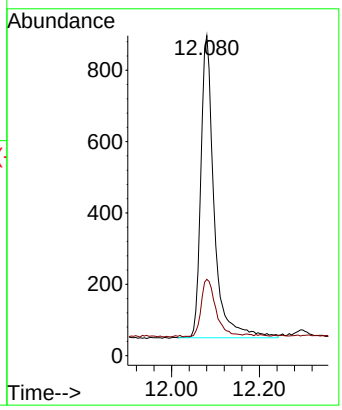


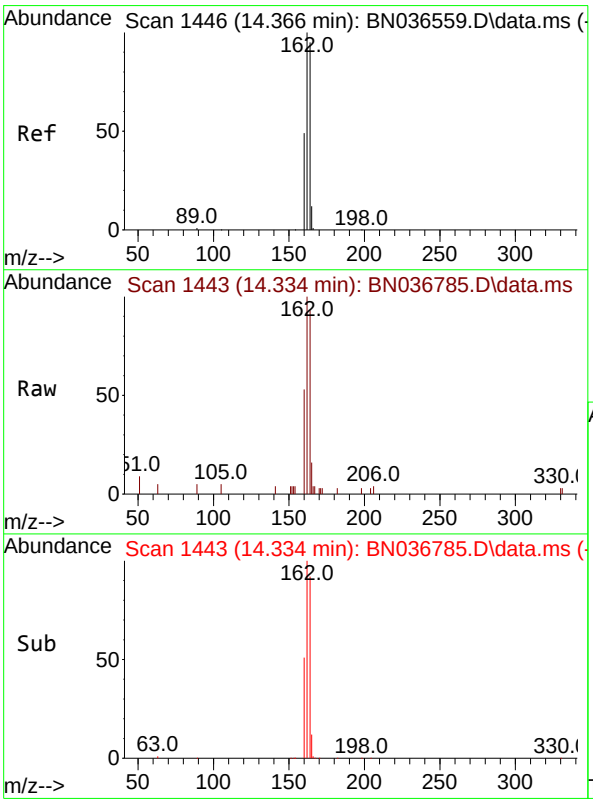
#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Tgt Ion:152 Resp: 1779

Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.0	25.6

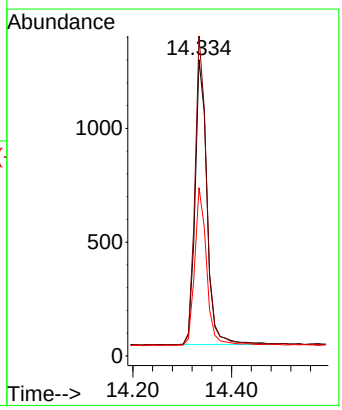


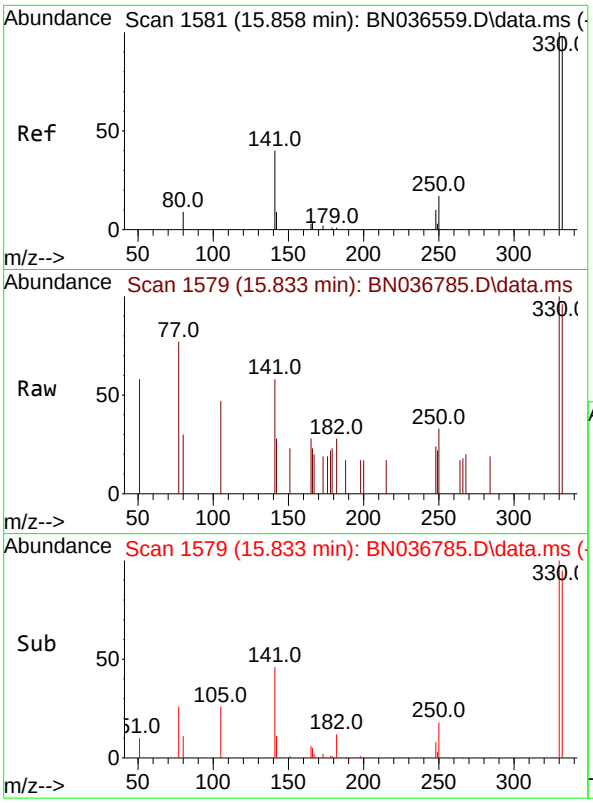


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Tgt Ion:164 Resp: 2108

Ion	Ratio	Lower	Upper
164	100		
162	108.0	84.2	126.2
160	56.8	42.2	63.2



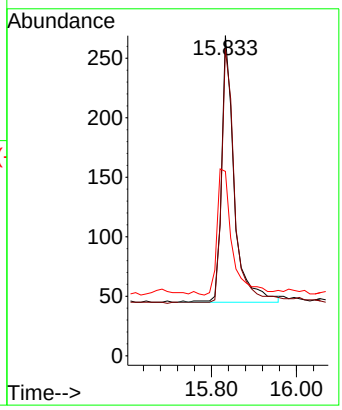


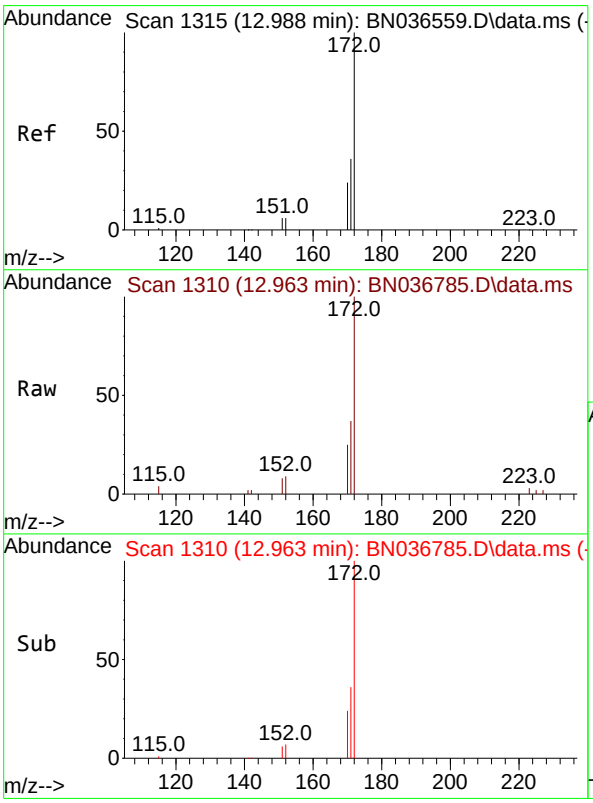
#14
2,4,6-Tribromophenol
Concen: 0.483 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Tgt Ion:330 Resp: 462

Ion	Ratio	Lower	Upper
330	100		
332	96.3	75.2	112.8
141	56.9	43.4	65.2

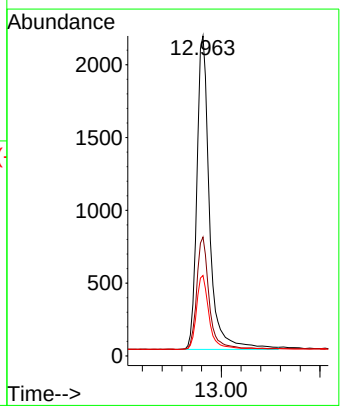


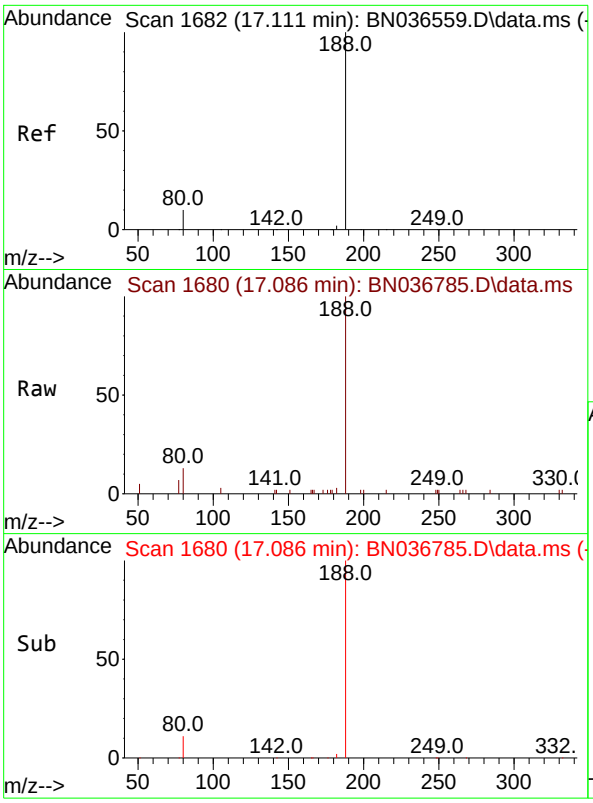


#15
2-Fluorobiphenyl
Concen: 0.420 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Tgt Ion:172 Resp: 5155

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.2	20.2	30.4



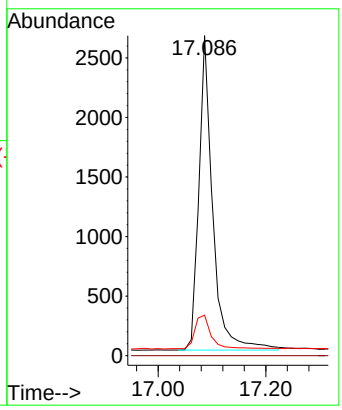


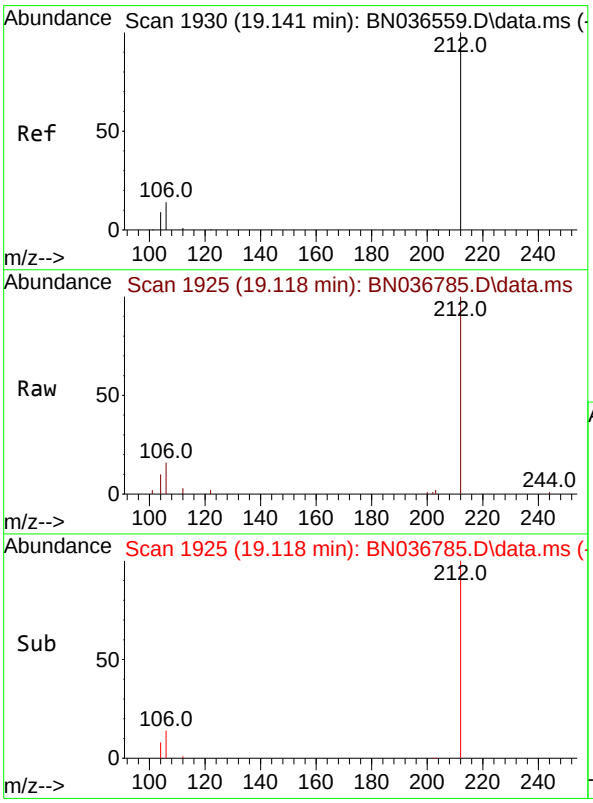
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Tgt Ion:188 Resp: 4716

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	8.8	13.2

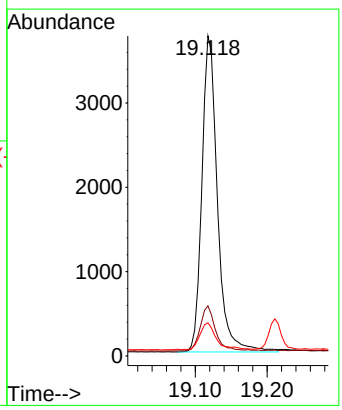


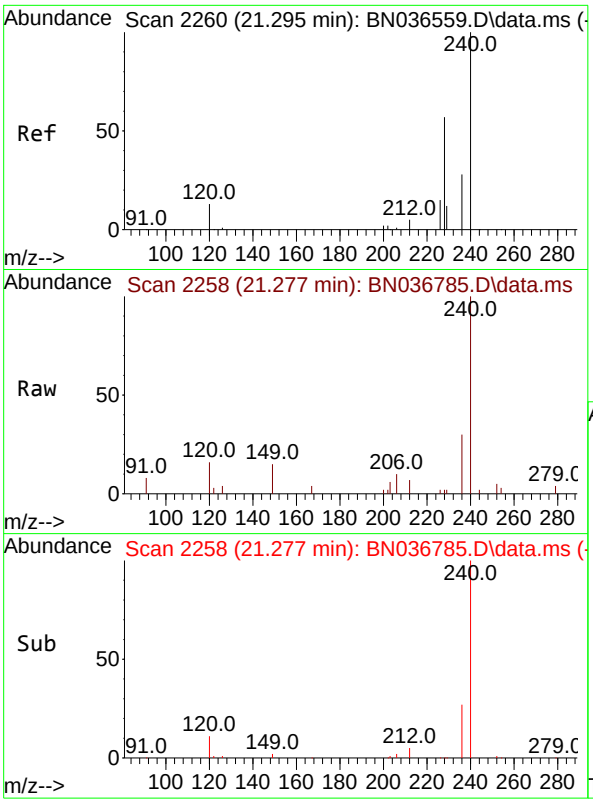


#27
Fluoranthene-d10
Concen: 0.466 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Tgt Ion:212 Resp: 5629

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	9.0	7.3	10.9



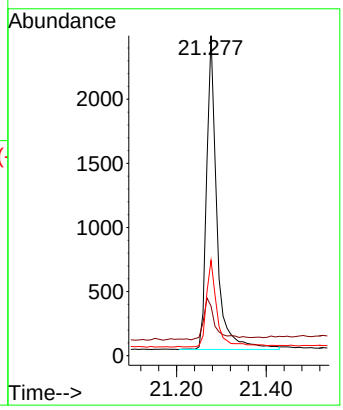


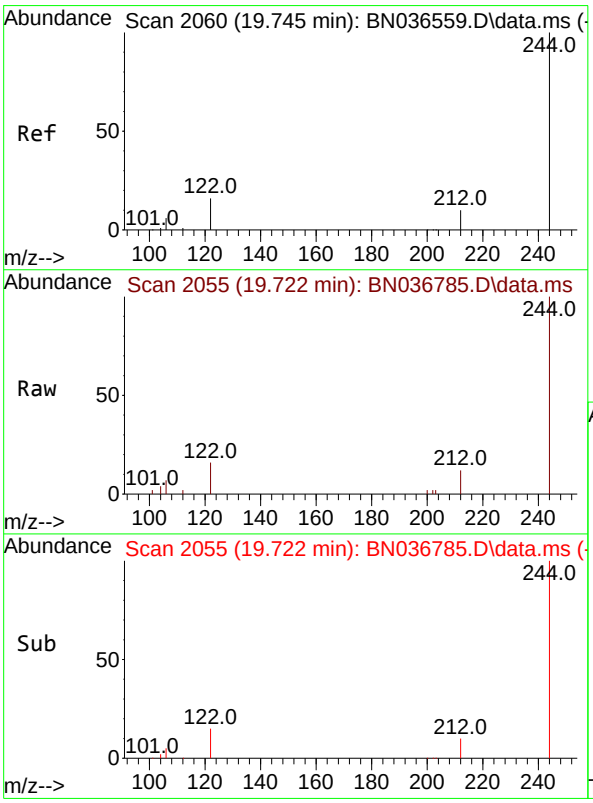
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Tgt Ion:240 Resp: 3918

Ion	Ratio	Lower	Upper
240	100		
120	15.5	14.6	22.0
236	29.8	24.1	36.1

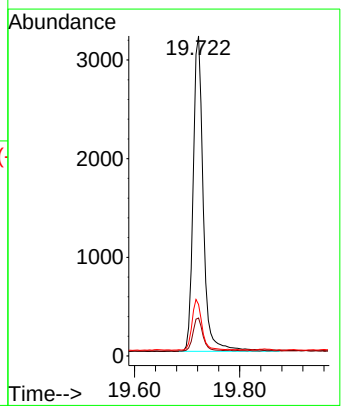


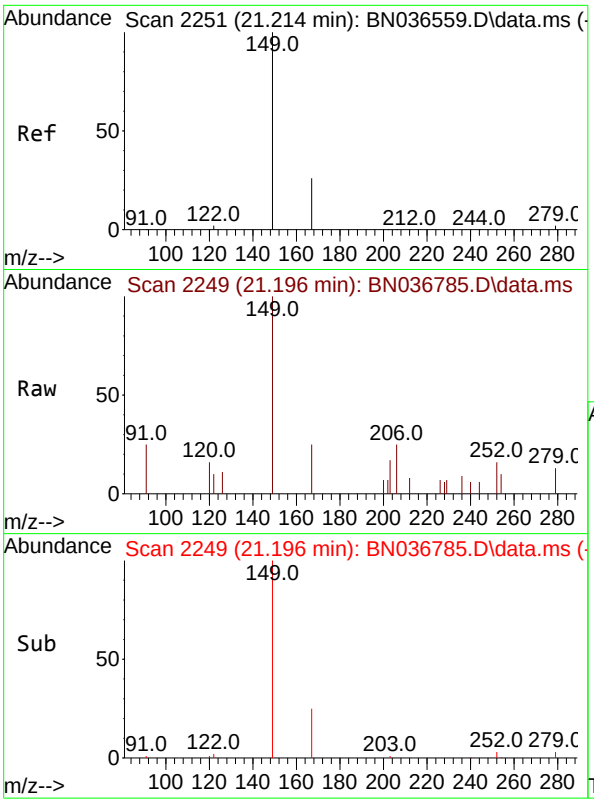


#31
Terphenyl-d14
Concen: 0.456 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Tgt Ion:244 Resp: 4283

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	16.1	13.9	20.9



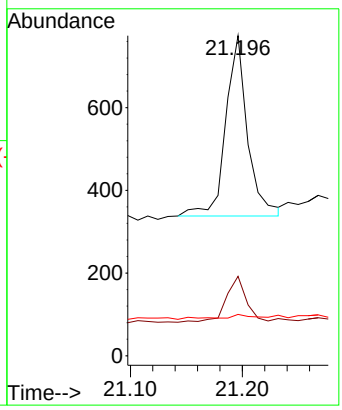


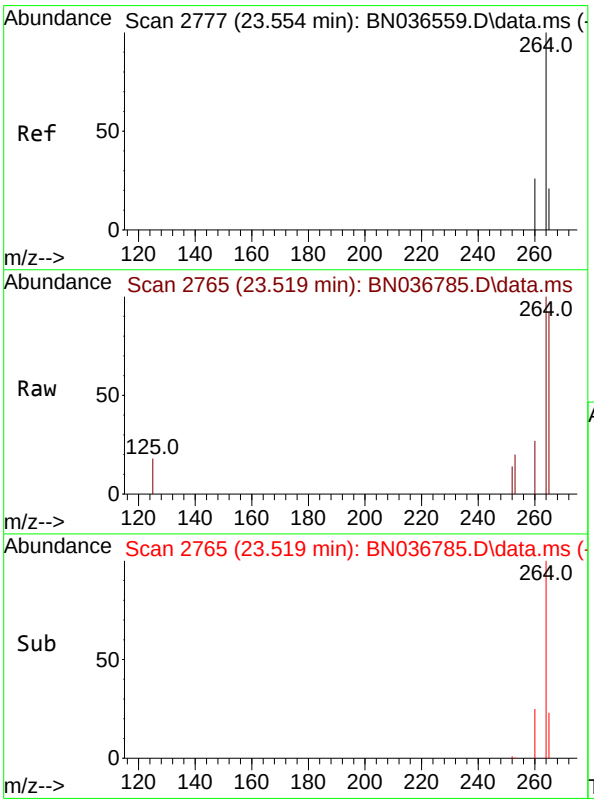
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.061 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Instrument :
BNA_N
ClientSampleId :
RW11-MW01S-20250317

Tgt Ion:149 Resp: 589

Ion	Ratio	Lower	Upper
149	100		
167	23.6	20.7	31.1
279	2.0	3.6	5.4#

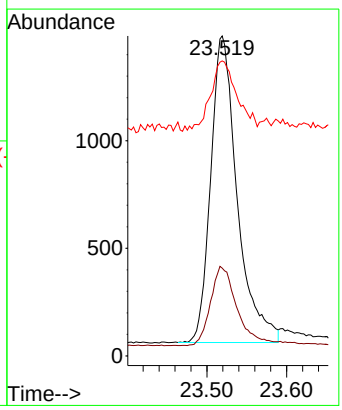




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036785.D
Acq: 28 Mar 2025 22:26

Tgt Ion:264 Resp: 3294

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	92.2	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:	AECOM Technical Services, Inc.	Date Collected:	03/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RW11-MW01I-20250317	SDG No.:	Q1608
Lab Sample ID:	Q1608-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036786.D	1	03/20/25 10:49	03/28/25 23:02	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1260	7.696				
1146-65-2	Naphthalene-d8	3180	10.488				
15067-26-2	Acenaphthene-d10	2020	14.334				
1517-22-2	Phenanthrene-d10	4340	17.087				
1719-03-5	Chrysene-d12	3800	21.277				
1520-96-3	Perylene-d12	3360	23.516				

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\BN032825\
Data File : BN036786.D
Acq On : 28 Mar 2025 23:02
Operator : RC/JU
Sample : Q1608-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Quant Time: Mar 28 23:44:46 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

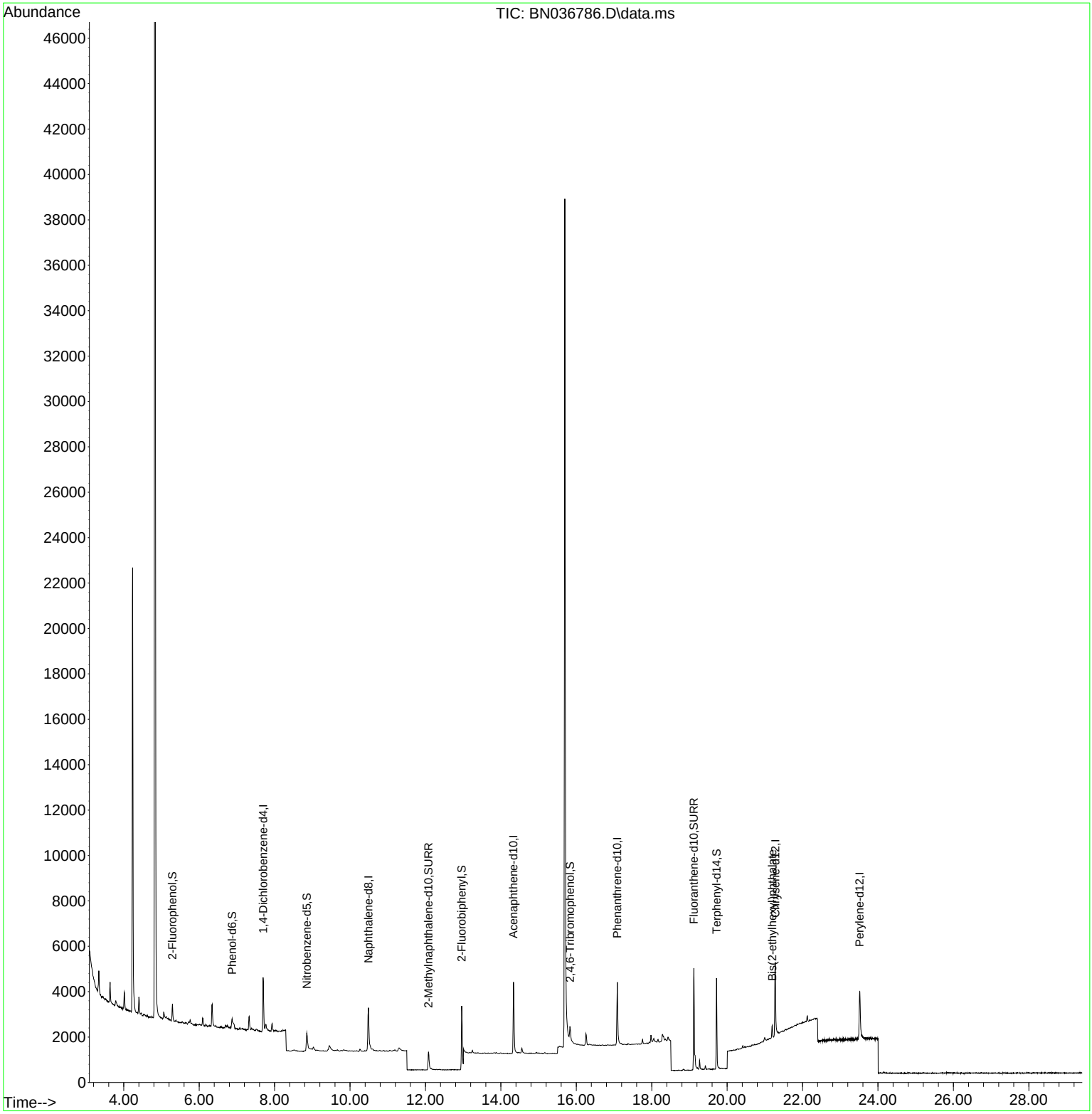
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1258	0.400	ng	-0.03
7) Naphthalene-d8	10.488	136	3175	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2022	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	4337	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3802	0.400	ng	-0.02
35) Perylene-d12	23.516	264	3357	0.400	ng	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	521	0.178	ng	-0.02
5) Phenol-d6	6.872	99	398	0.110	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1052	0.305	ng	-0.02
11) 2-Methylnaphthalene-d10	12.081	152	1474	0.312	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	416	0.453	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4167	0.354	ng	-0.03
27) Fluoranthene-d10	19.118	212	5443	0.490	ng	-0.02
31) Terphenyl-d14	19.717	244	4098	0.450	ng	-0.03
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.196	149	602	0.064	ng	99

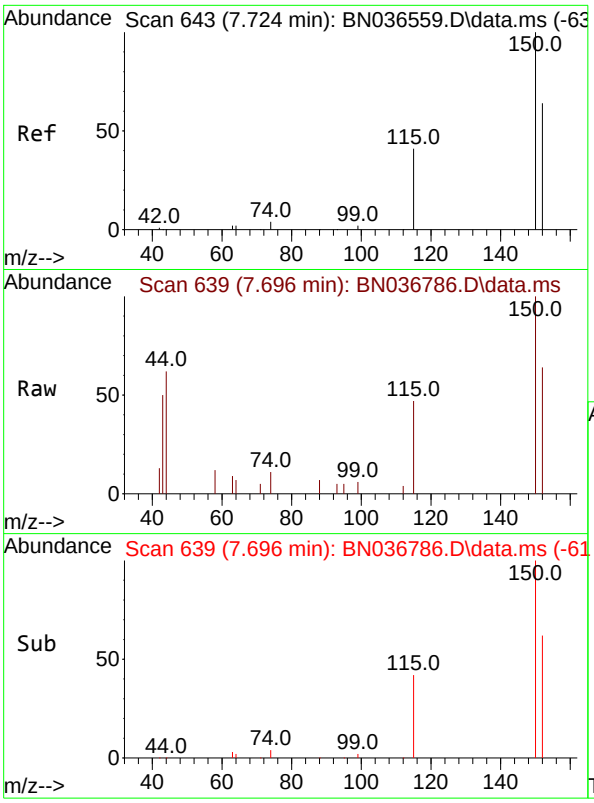
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036786.D
Acq On : 28 Mar 2025 23:02
Operator : RC/JU
Sample : Q1608-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Quant Time: Mar 28 23:44:46 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



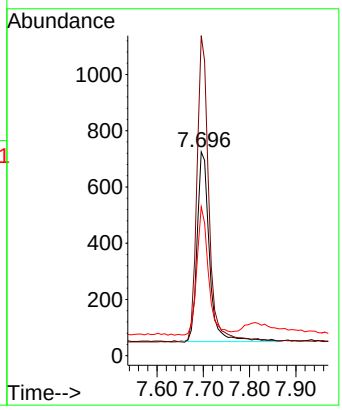


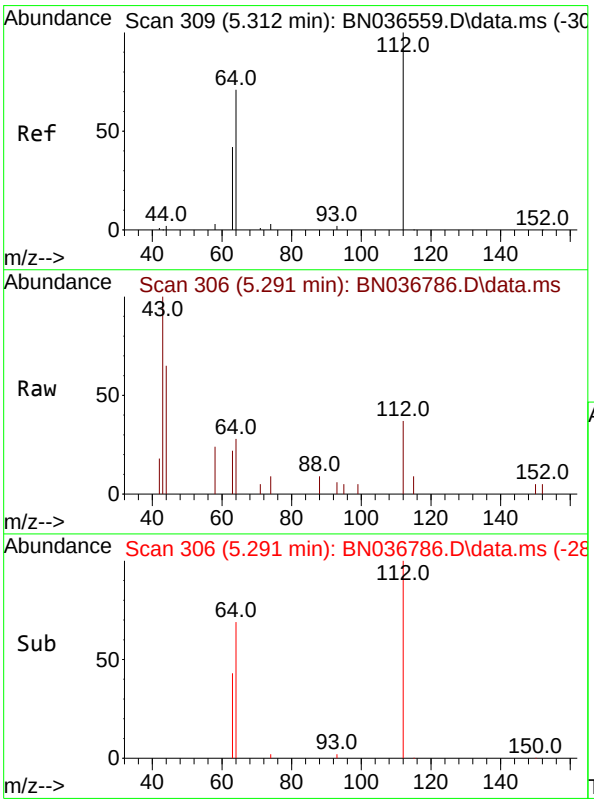
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Tgt Ion:152 Resp: 1258

Ion	Ratio	Lower	Upper
152	100		
150	157.0	123.7	185.5
115	73.1	54.3	81.5

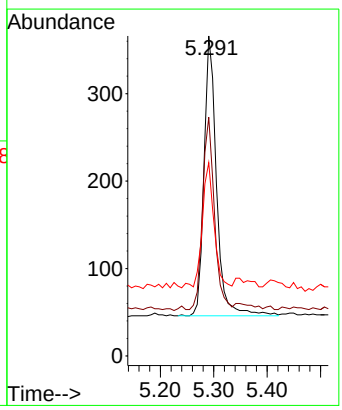


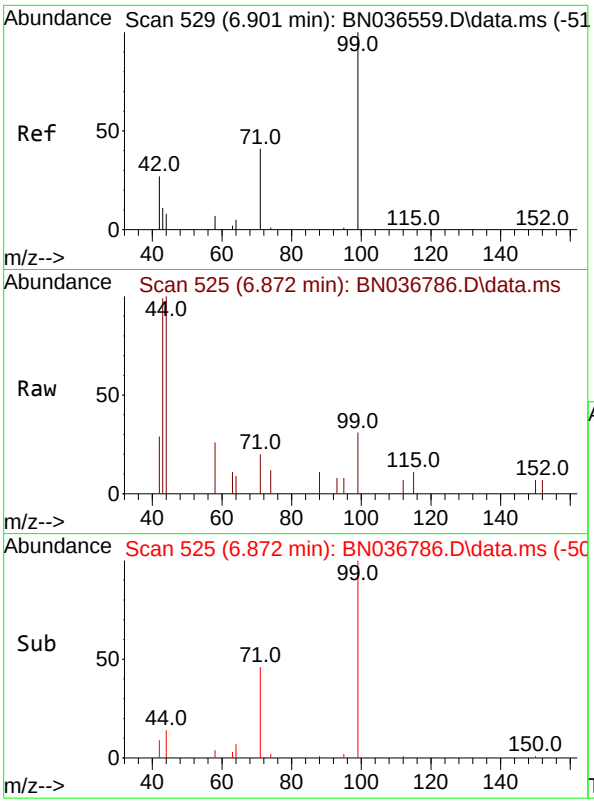


#4
2-Fluorophenol
Concen: 0.178 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Tgt Ion:112 Resp: 521

Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.1	79.7
63	42.0	31.8	47.8



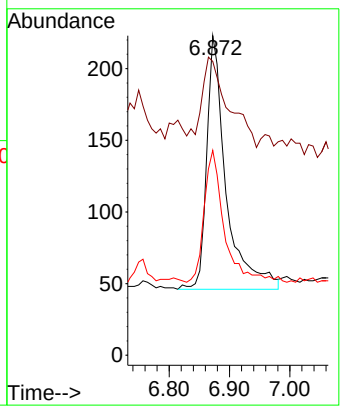


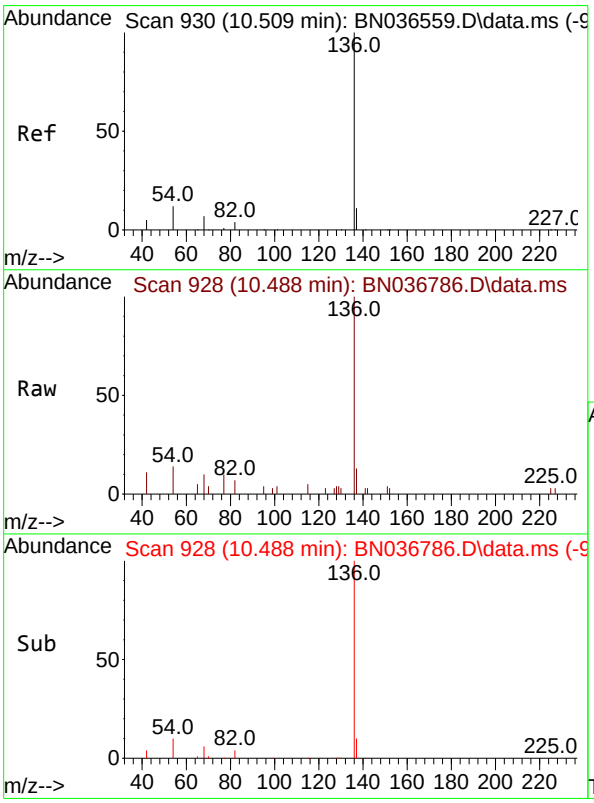
#5
Phenol-d6
Concen: 0.110 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Tgt Ion: 99 Resp: 398

Ion	Ratio	Lower	Upper
99	100		
42	49.0	26.5	39.7#
71	54.5	34.1	51.1#

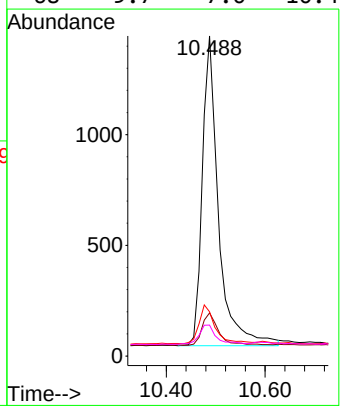


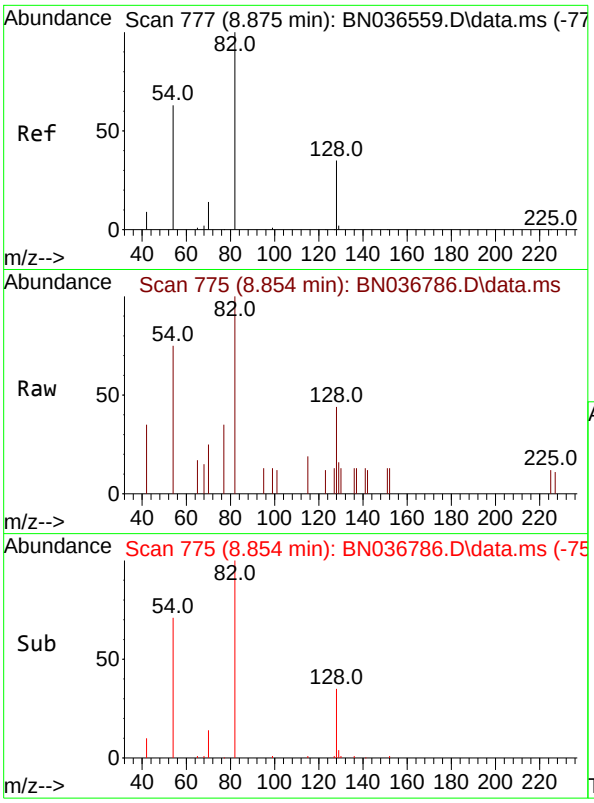


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Tgt Ion:136 Resp: 3175

Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.3	15.5
54	13.8	11.5	17.3
68	9.7	7.0	10.4



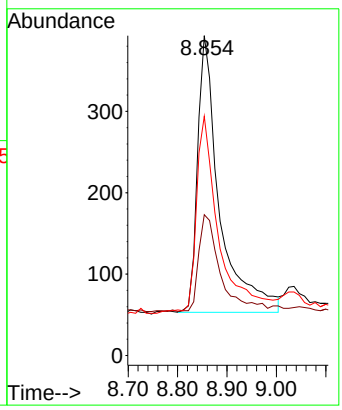


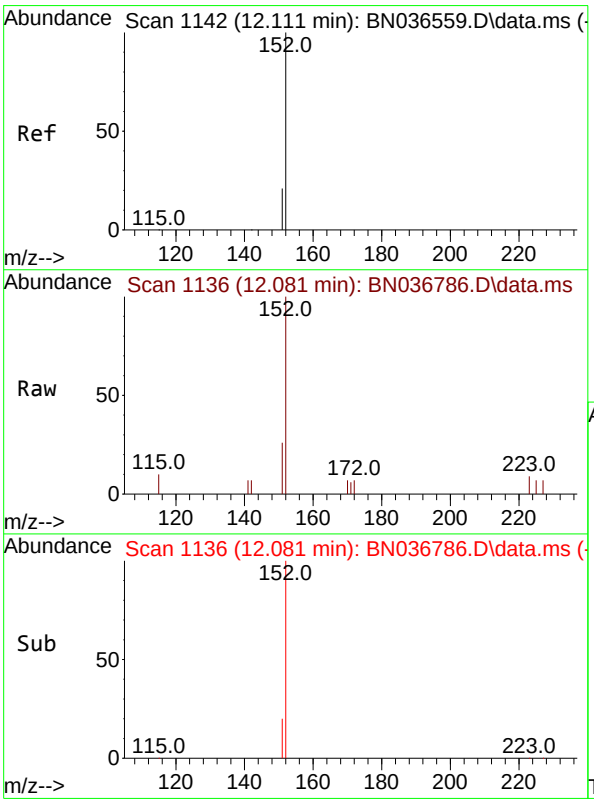
#8
Nitrobenzene-d5
Concen: 0.305 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Tgt Ion: 82 Resp: 1052

Ion	Ratio	Lower	Upper
82	100		
128	44.0	30.6	45.8
54	74.8	52.2	78.4

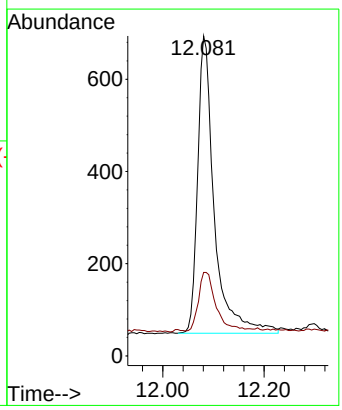


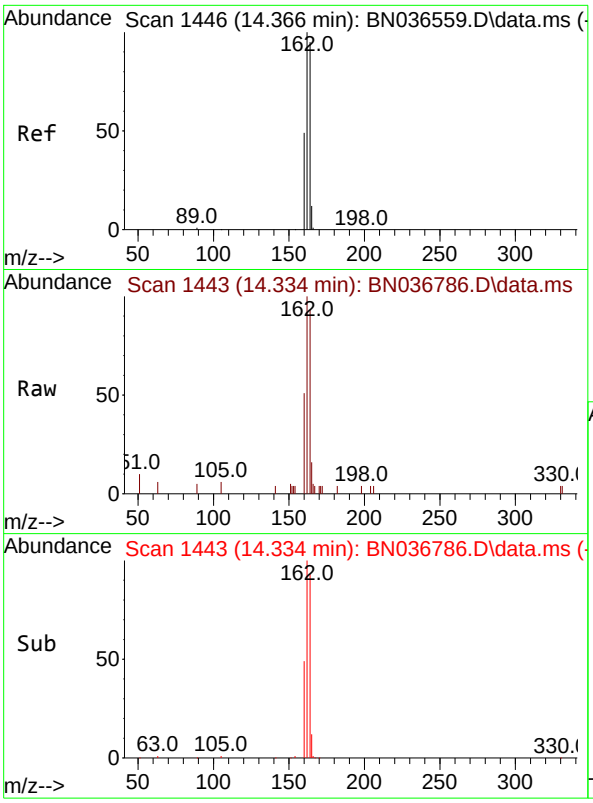


#11
2-Methylnaphthalene-d10
Concen: 0.312 ng
RT: 12.081 min Scan# 1136
Delta R.T. -0.030 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Tgt Ion:152 Resp: 1474

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



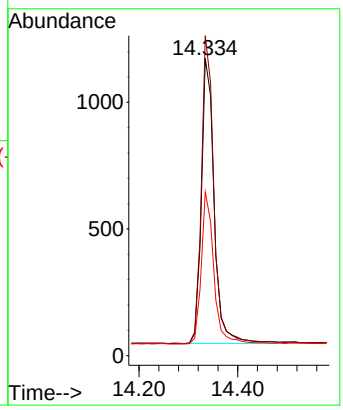


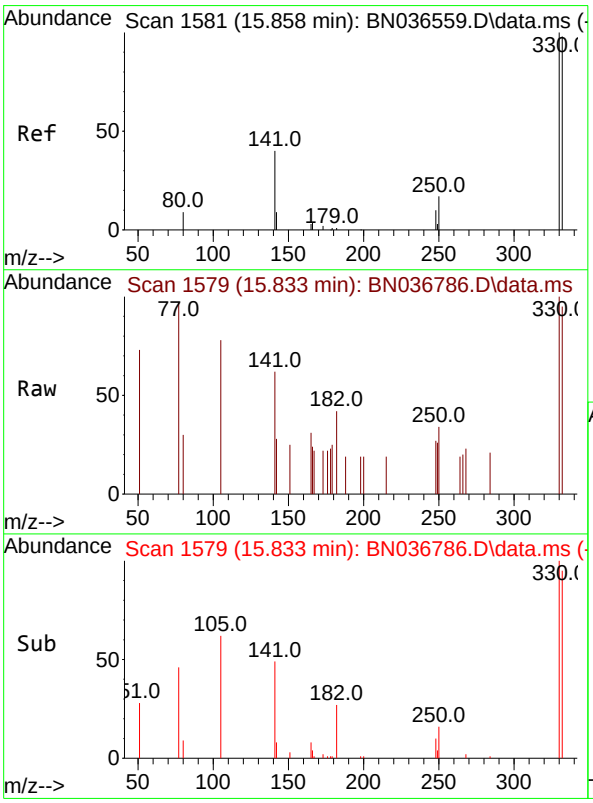
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Tgt Ion:164 Resp: 2022

Ion	Ratio	Lower	Upper
164	100		
162	107.7	84.2	126.2
160	55.1	42.2	63.2

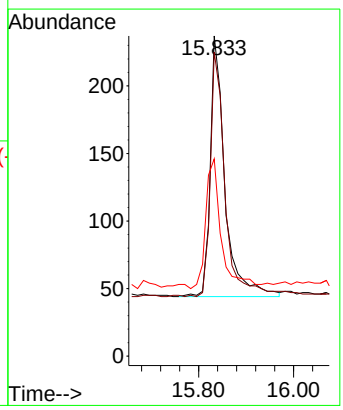


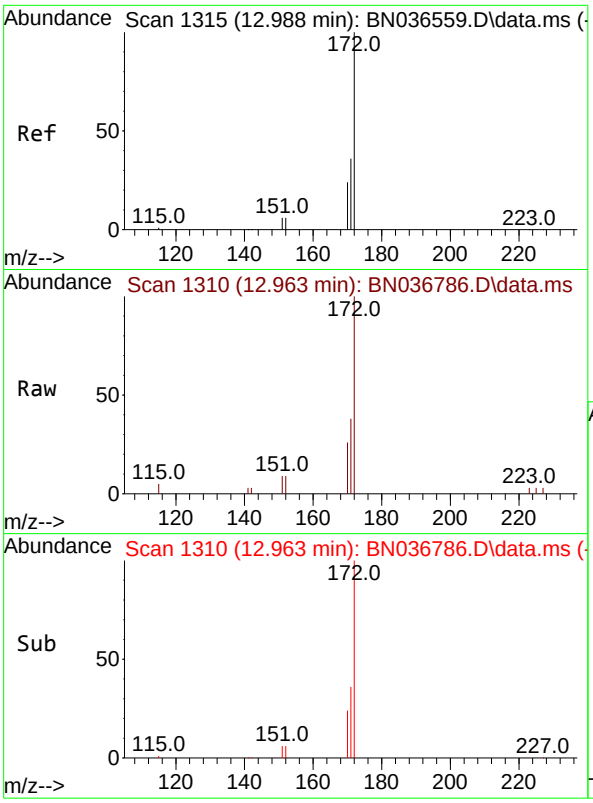


#14
2,4,6-Tribromophenol
Concen: 0.453 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Tgt Ion:330 Resp: 416

Ion	Ratio	Lower	Upper
330	100		
332	93.5	75.2	112.8
141	52.9	43.4	65.2



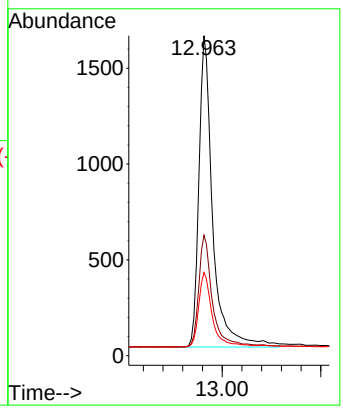


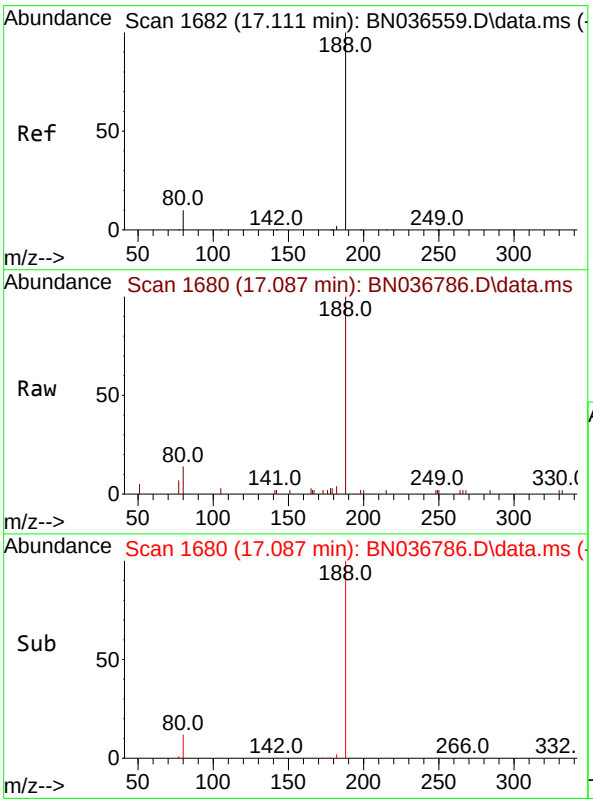
#15
2-Fluorobiphenyl
Concen: 0.354 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Tgt Ion:172 Resp: 4167

Ion	Ratio	Lower	Upper
172	100		
171	37.7	29.5	44.3
170	26.0	20.2	30.4

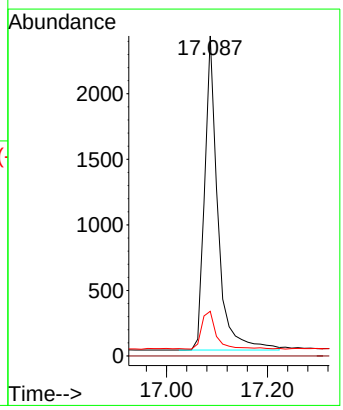


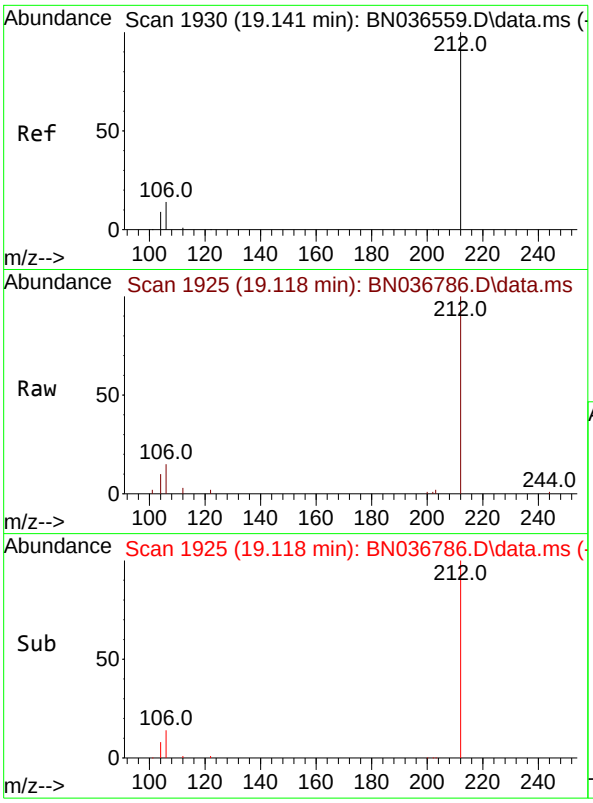


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Tgt Ion:188 Resp: 4337

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	8.8	13.2#



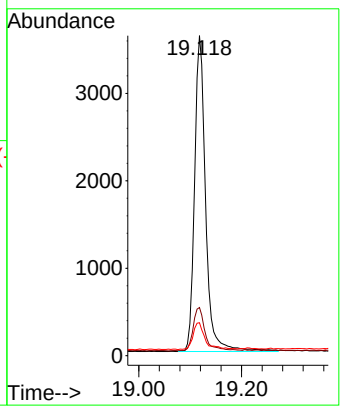


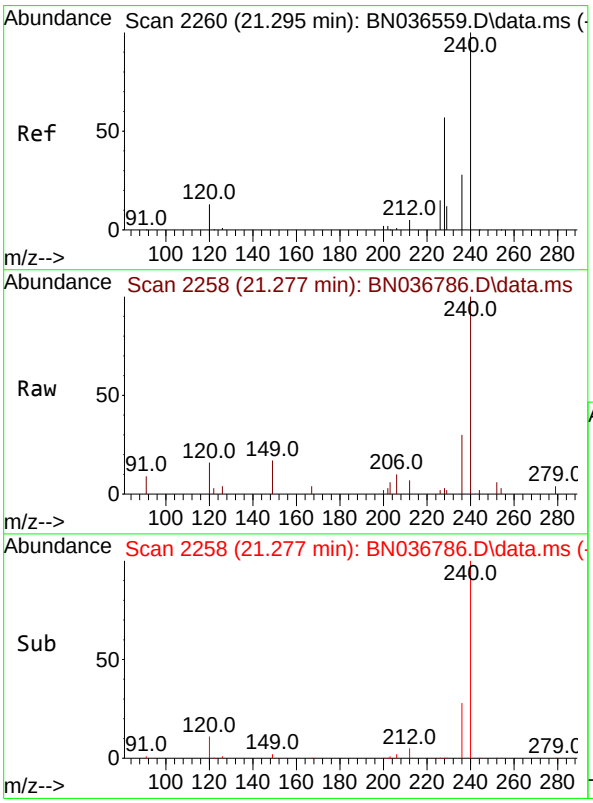
#27
Fluoranthene-d10
Concen: 0.490 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Tgt Ion:212 Resp: 5443

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	9.5	7.3	10.9

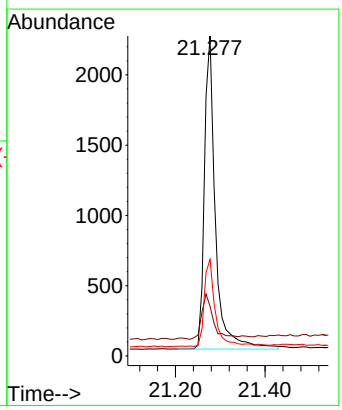


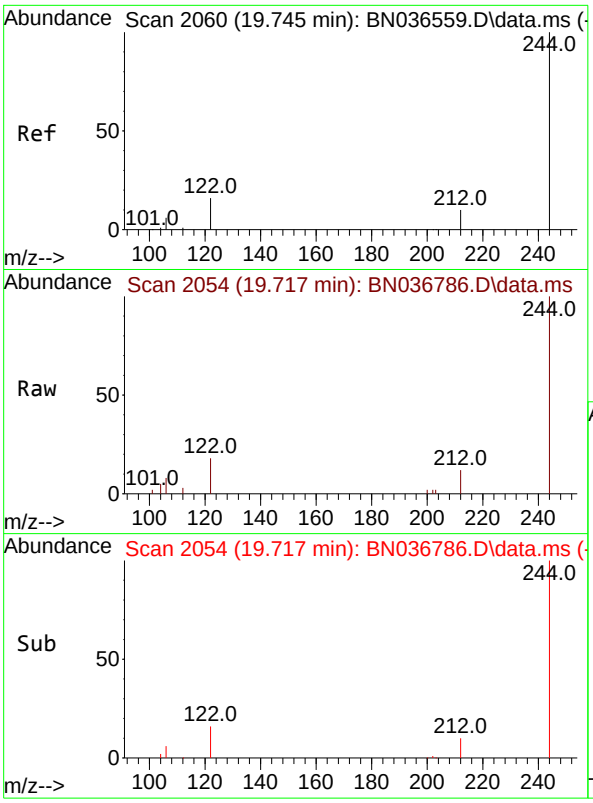


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Tgt Ion:240 Resp: 3802

Ion	Ratio	Lower	Upper
240	100		
120	15.5	14.6	22.0
236	30.2	24.1	36.1



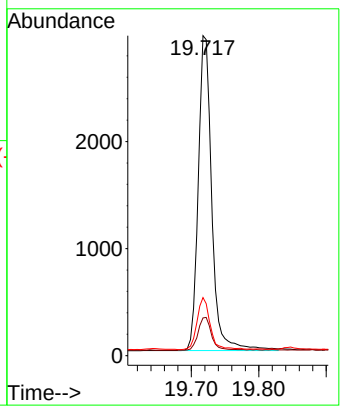


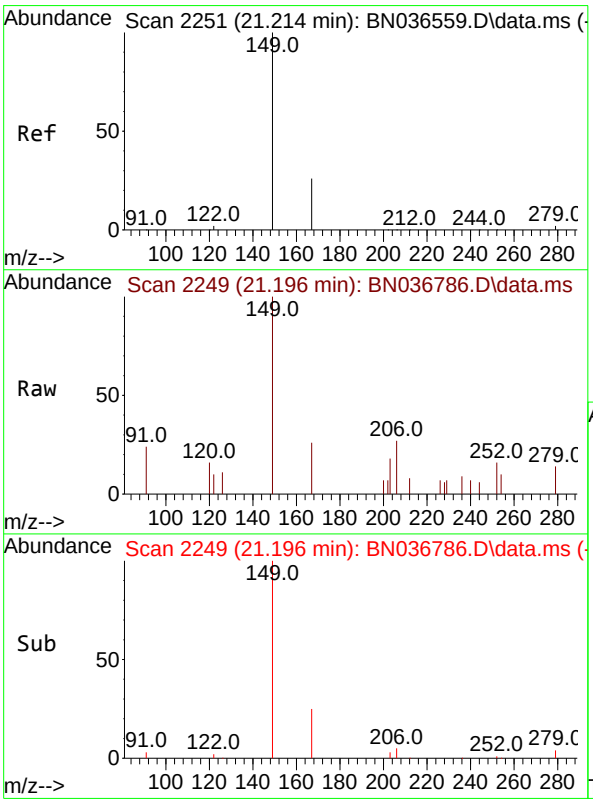
#31
Terphenyl-d14
Concen: 0.450 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Tgt Ion:244 Resp: 4098

Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	18.2	13.9	20.9

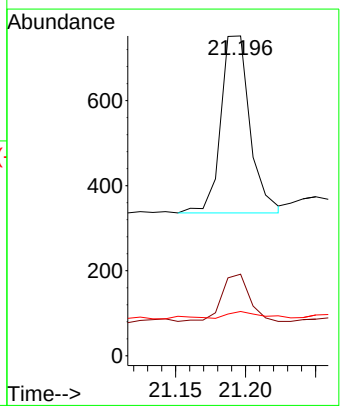


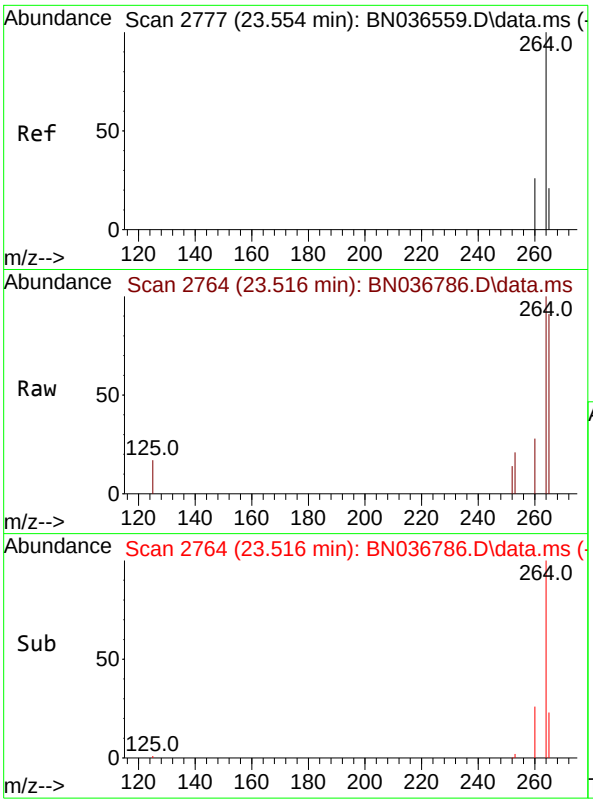


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.064 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Tgt Ion:149 Resp: 602

Ion	Ratio	Lower	Upper
149	100		
167	25.2	20.7	31.1
279	4.3	3.6	5.4



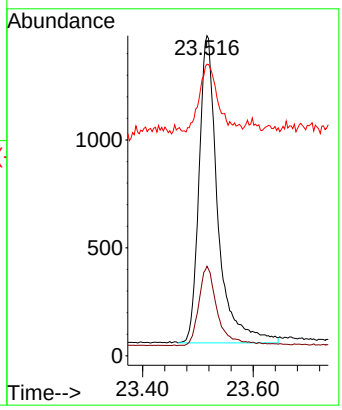


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036786.D
Acq: 28 Mar 2025 23:02

Instrument :
BNA_N
ClientSampleId :
RW11-MW01I-20250317

Tgt Ion:264 Resp: 3357

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.6	33.8
265	91.1	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	GM38-RW3-MW1-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-09	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036743.D	1	03/20/25 10:49	03/27/25 18:39	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.50		30 - 150		124%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1620	7.703				
1146-65-2	Naphthalene-d8	3790	10.487				
15067-26-2	Acenaphthene-d10	2340	14.345				
1517-22-2	Phenanthrene-d10	5100	17.086				
1719-03-5	Chrysene-d12	4220	21.277				
1520-96-3	Perylene-d12	3690	23.522				

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\BN032725\
Data File : BN036743.D
Acq On : 27 Mar 2025 18:39
Operator : RC/JU
Sample : Q1608-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Quant Time: Mar 28 00:57:32 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

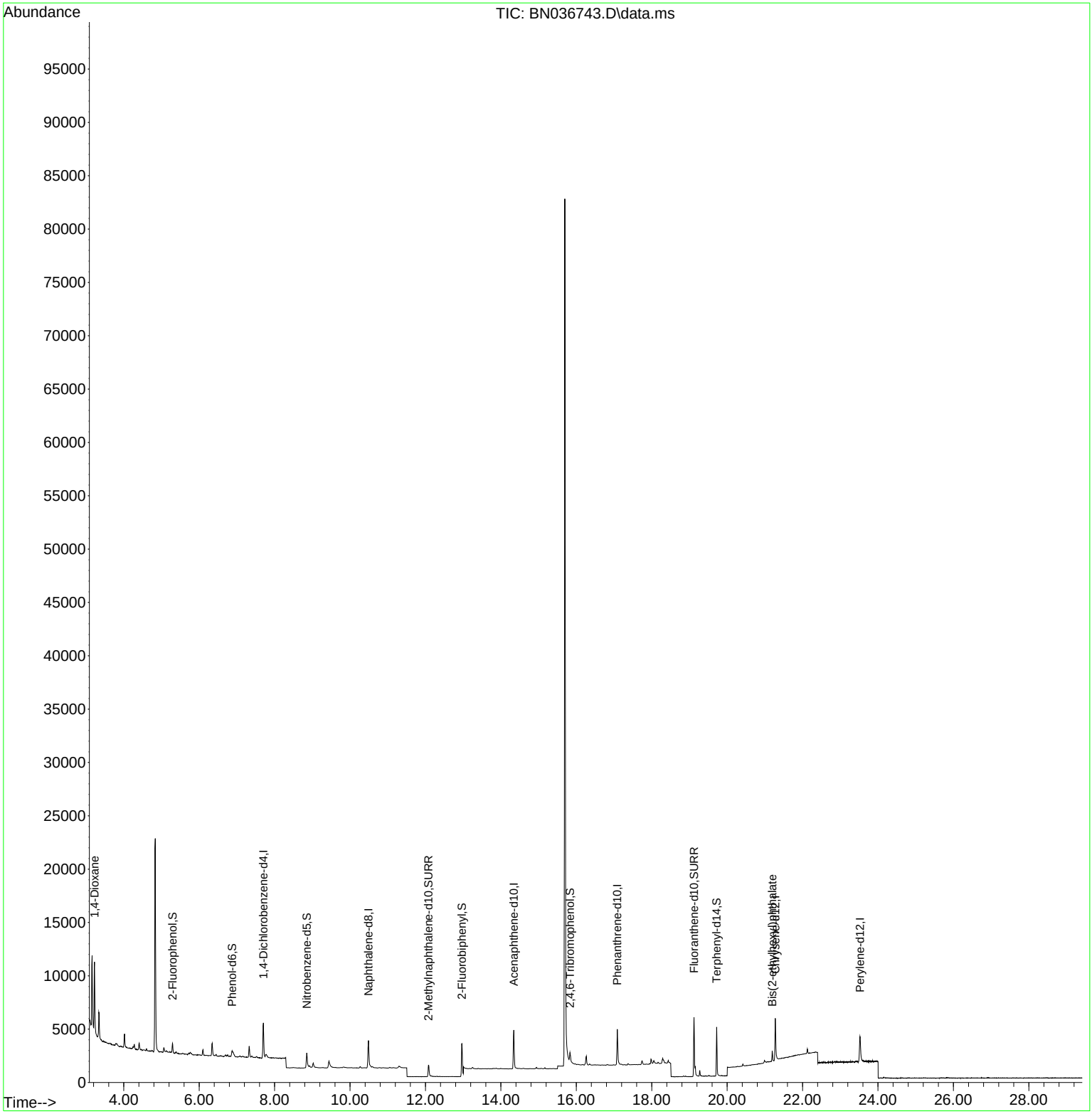
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1616	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3792	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2336	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5096	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4215	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3687	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	669	0.178	ng	-0.01
5) Phenol-d6	6.872	99	458	0.098	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1399	0.339	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1898	0.337	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	528	0.498	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	4705	0.346	ng	-0.02
27) Fluoranthene-d10	19.122	212	6486	0.497	ng	-0.02
31) Terphenyl-d14	19.722	244	4537	0.449	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	3681	2.053	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.196	149	932	0.089	ng	# 99

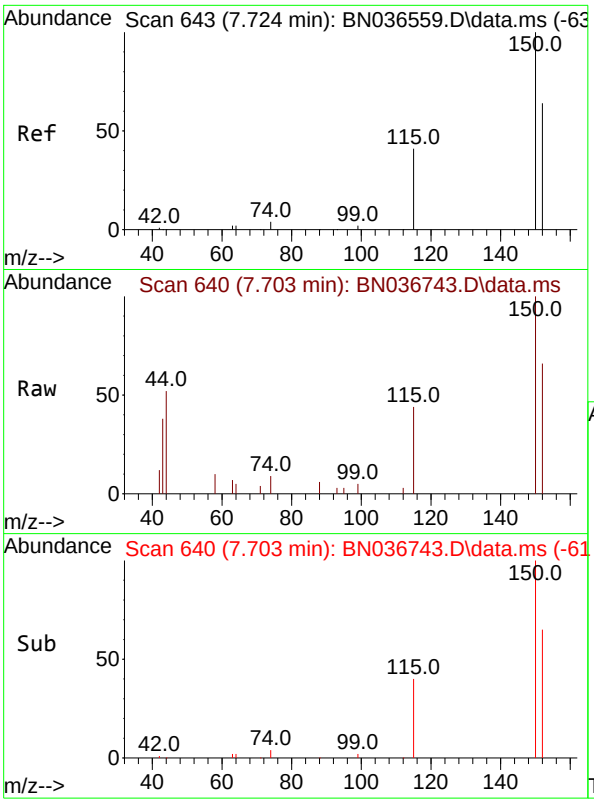
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036743.D
Acq On : 27 Mar 2025 18:39
Operator : RC/JU
Sample : Q1608-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Quant Time: Mar 28 00:57:32 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



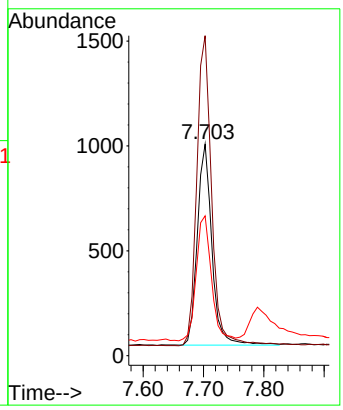


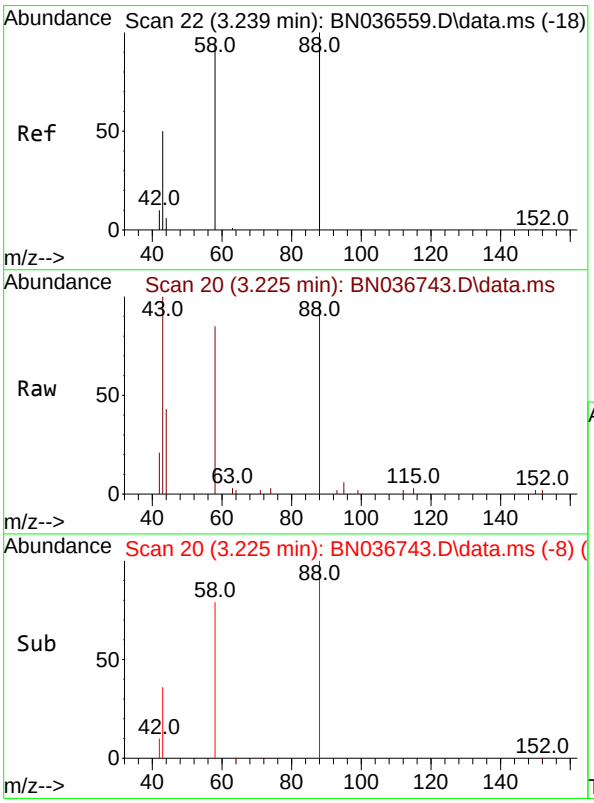
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Tgt Ion:152 Resp: 1616

Ion	Ratio	Lower	Upper
152	100		
150	151.2	123.7	185.5
115	66.1	54.3	81.5

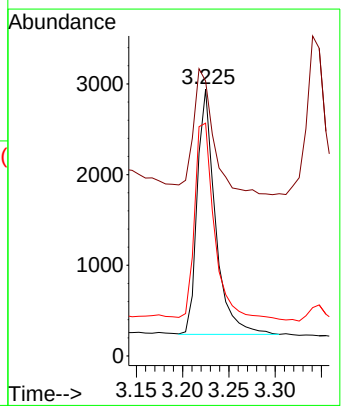


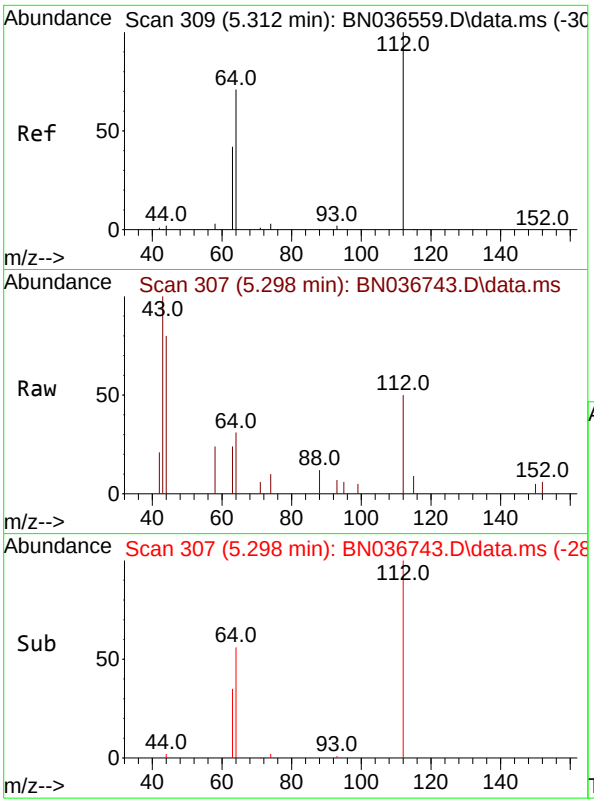


#2
1,4-Dioxane
Concen: 2.053 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Tgt Ion: 88 Resp: 3681

Ion	Ratio	Lower	Upper
88	100		
43	56.9	37.8	56.8#
58	87.3	67.4	101.2



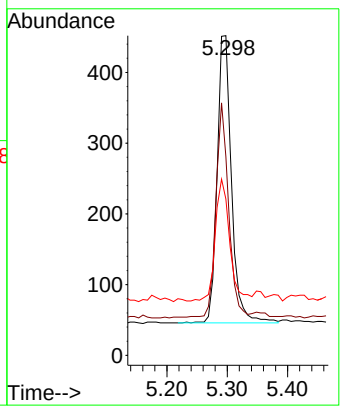


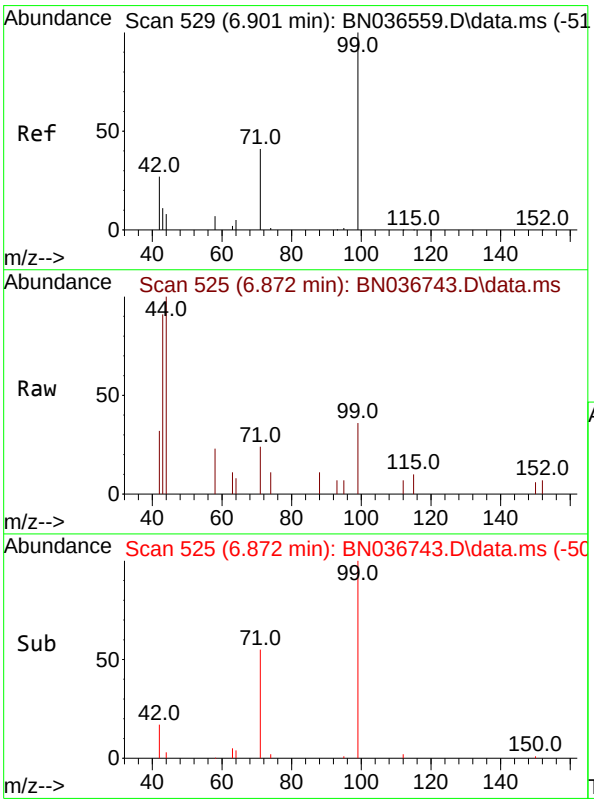
#4
2-Fluorophenol
Concen: 0.178 ng
RT: 5.298 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Tgt Ion:112 Resp: 669

Ion	Ratio	Lower	Upper
112	100		
64	67.1	53.1	79.7
63	42.2	31.8	47.8

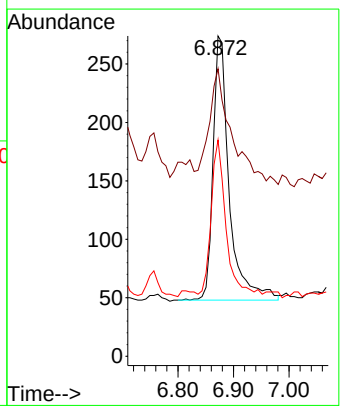


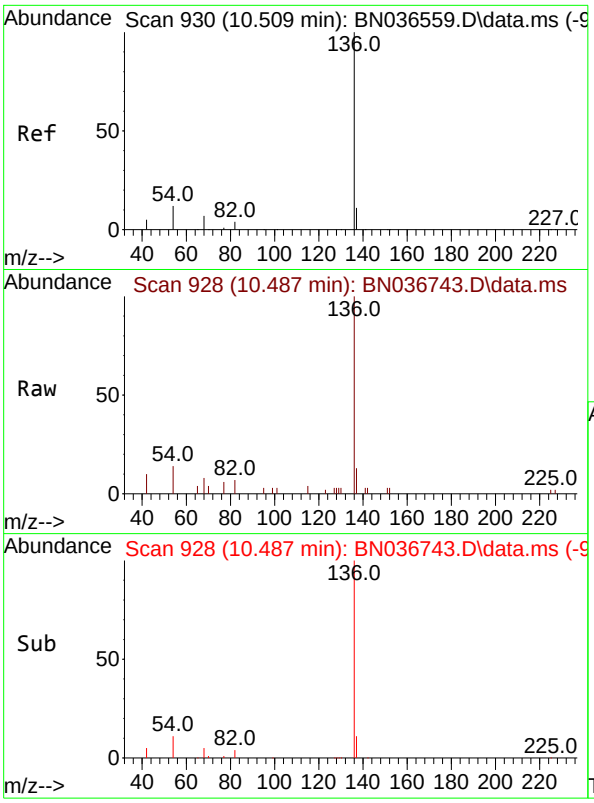


#5
Phenol-d6
Concen: 0.098 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Tgt Ion: 99 Resp: 458

Ion	Ratio	Lower	Upper
99	100		
42	62.4	26.5	39.7#
71	52.4	34.1	51.1#



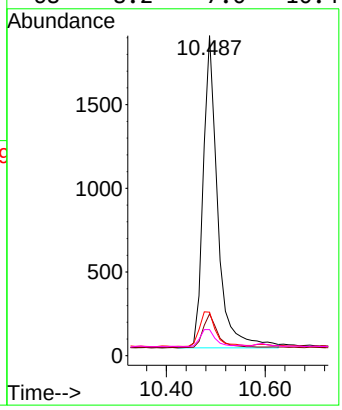


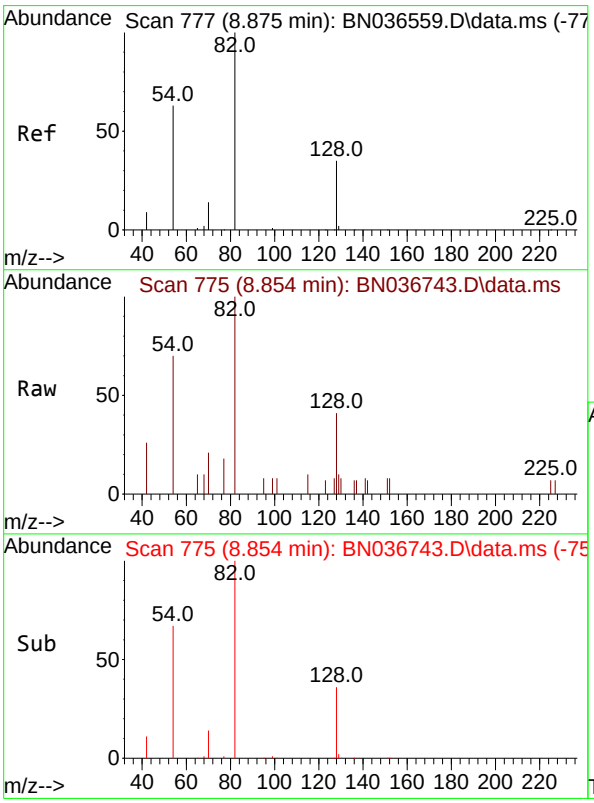
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Tgt Ion:136 Resp: 3792

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	13.6	11.5	17.3
68	8.2	7.0	10.4

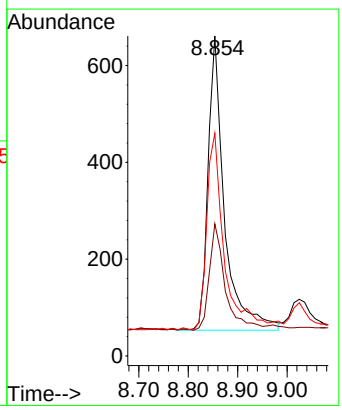


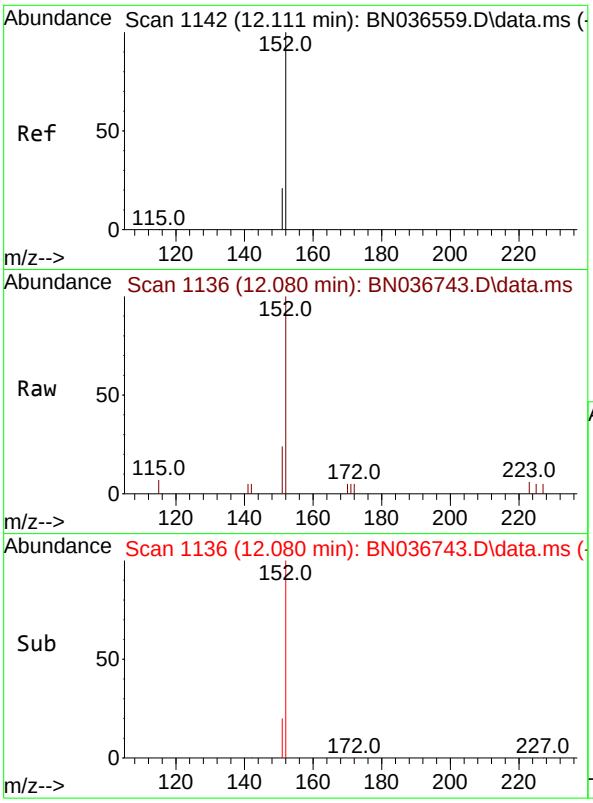


#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Tgt Ion: 82 Resp: 1399

Ion	Ratio	Lower	Upper
82	100		
128	41.3	30.6	45.8
54	69.6	52.2	78.4



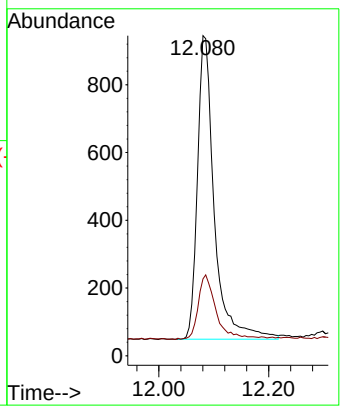


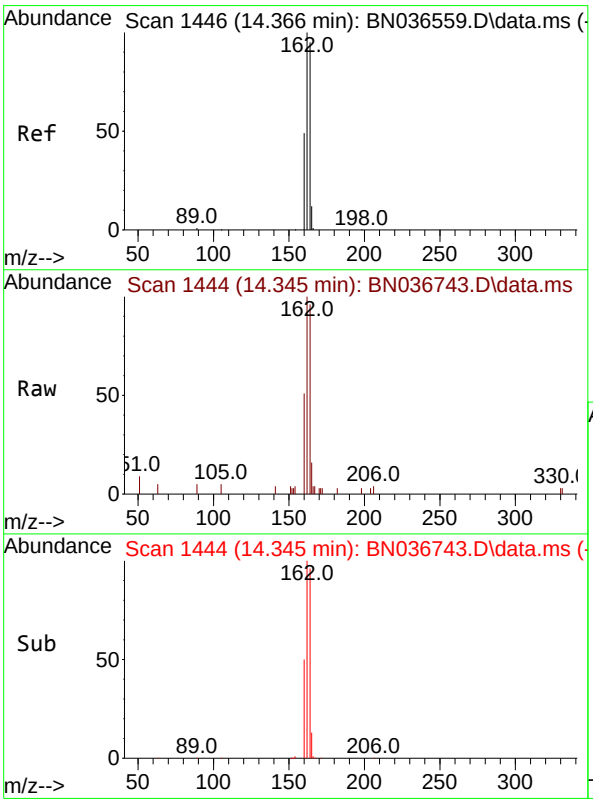
#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Tgt Ion:152 Resp: 1898

Ion	Ratio	Lower	Upper
152	100		
151	22.4	17.0	25.6

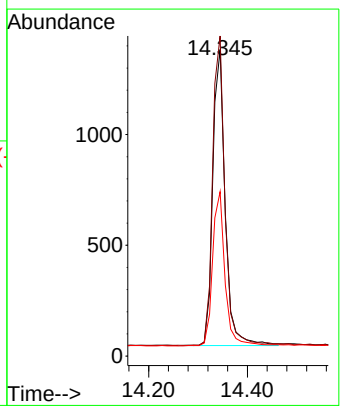


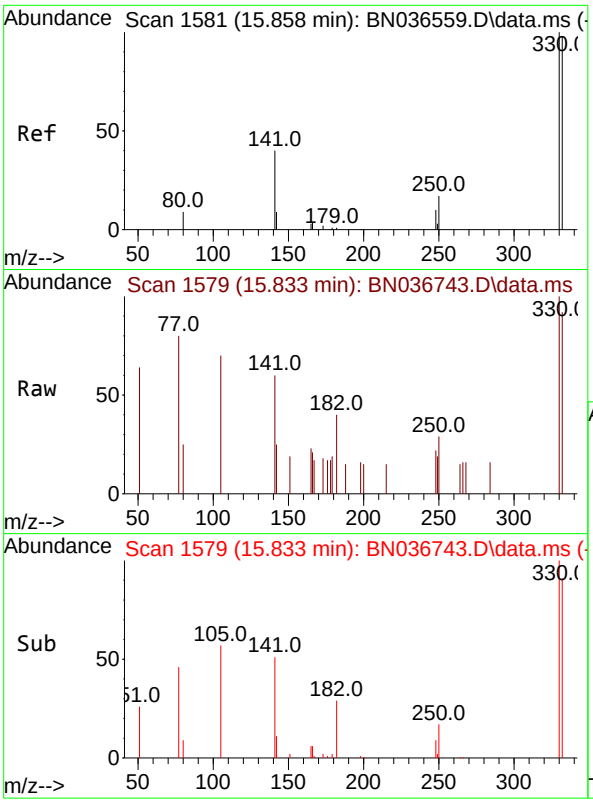


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Tgt Ion:164 Resp: 2336

Ion	Ratio	Lower	Upper
164	100		
162	104.4	84.2	126.2
160	53.6	42.2	63.2



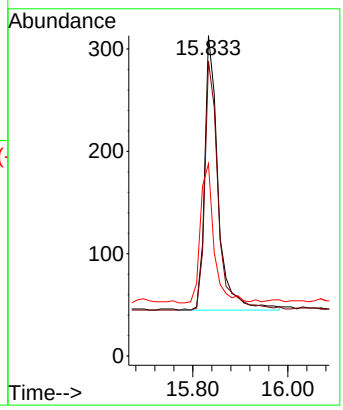


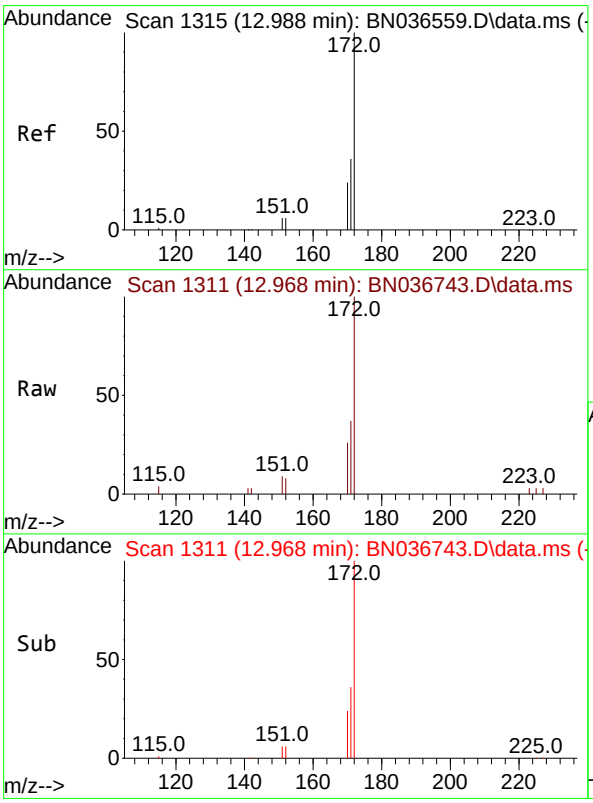
#14
2,4,6-Tribromophenol
Concen: 0.498 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Tgt Ion:330 Resp: 528

Ion	Ratio	Lower	Upper
330	100		
332	91.3	75.2	112.8
141	50.9	43.4	65.2

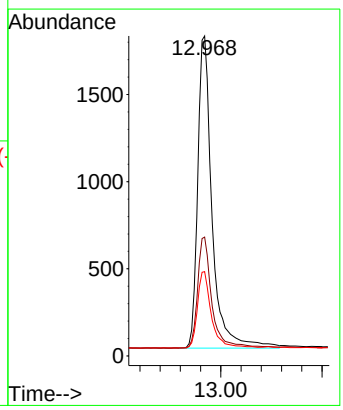


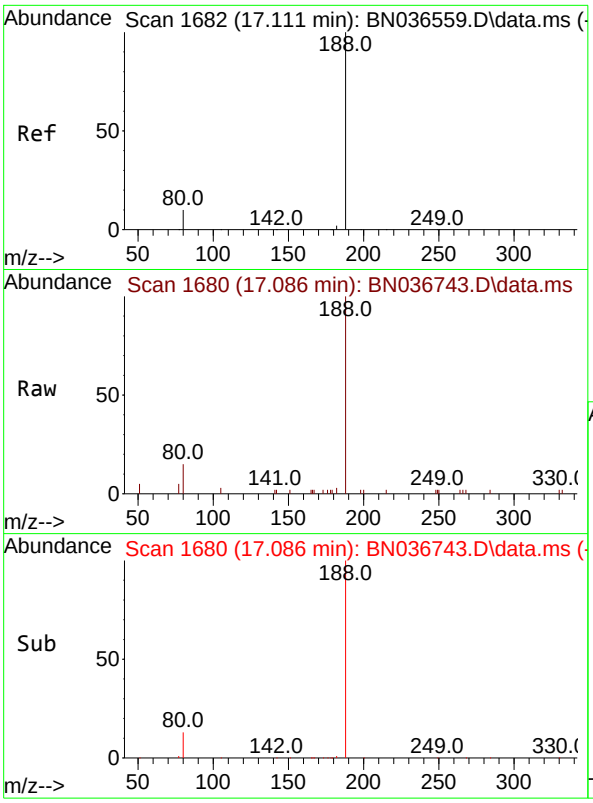


#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Tgt Ion:172 Resp: 4705

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	26.4	20.2	30.4



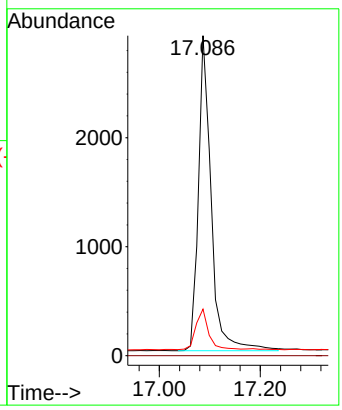


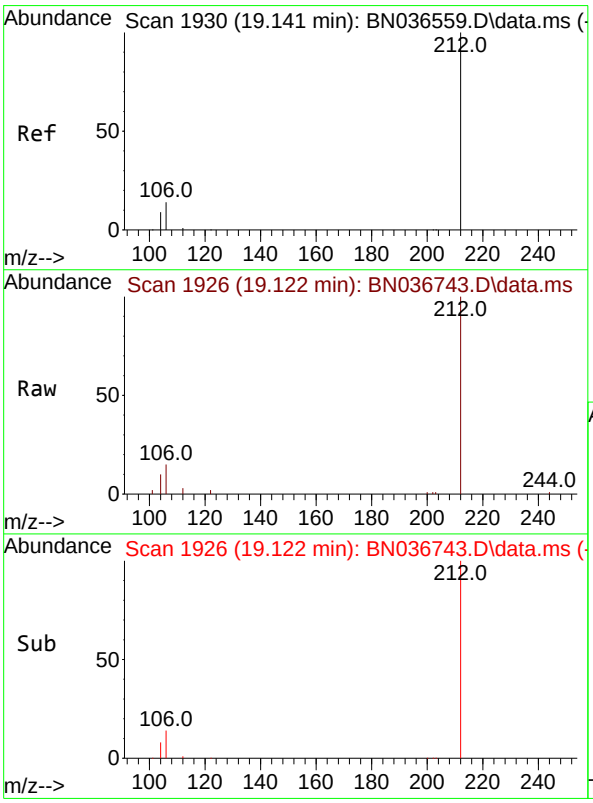
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Tgt Ion:188 Resp: 5096

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	8.8	13.2#

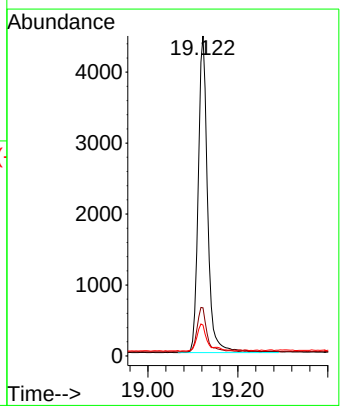


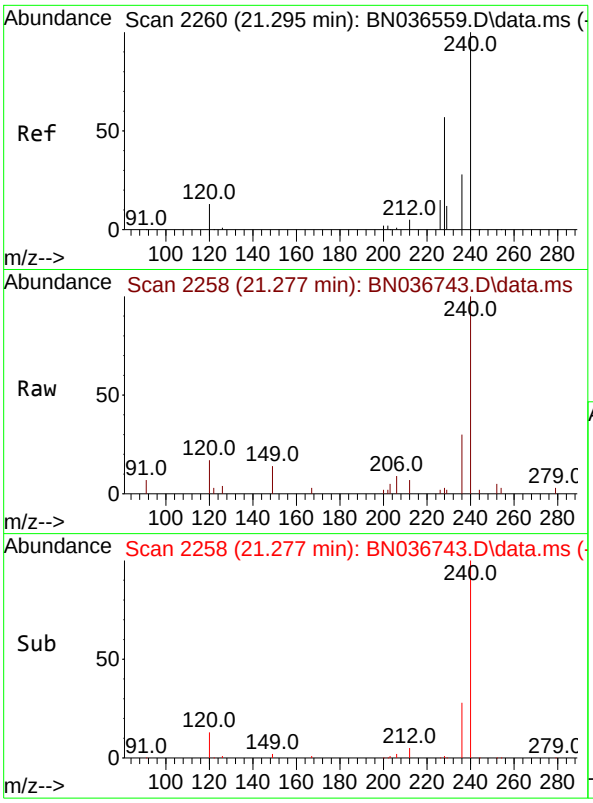


#27
Fluoranthene-d10
Concen: 0.497 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.019 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Tgt Ion:212 Resp: 6486

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.3	7.3	10.9



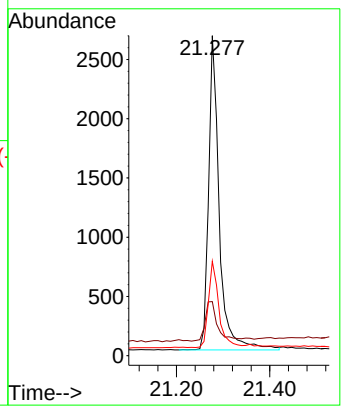


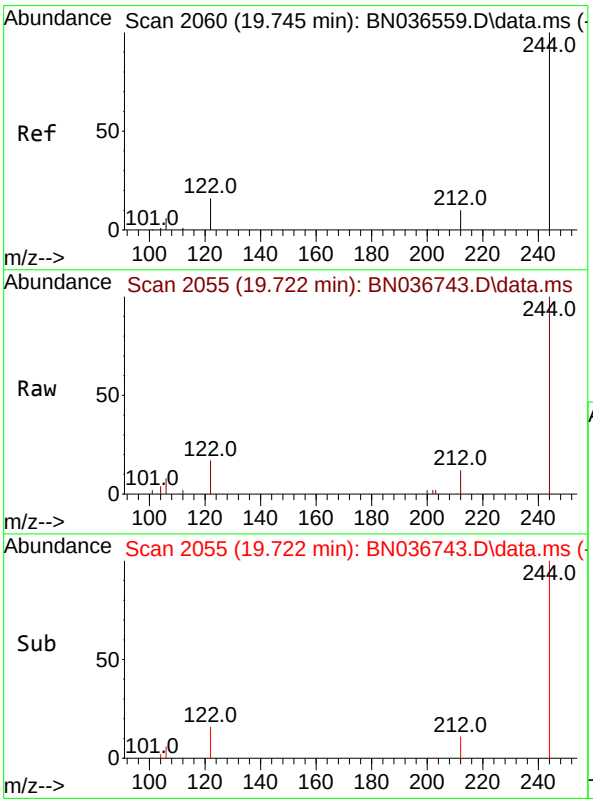
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Tgt Ion:240 Resp: 4215

Ion	Ratio	Lower	Upper
240	100		
120	16.9	14.6	22.0
236	29.5	24.1	36.1

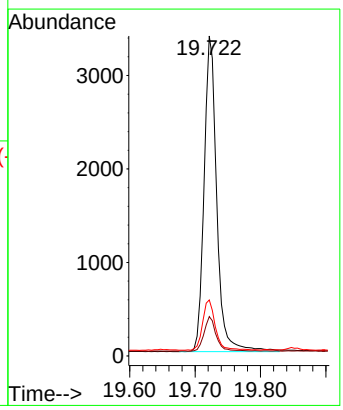


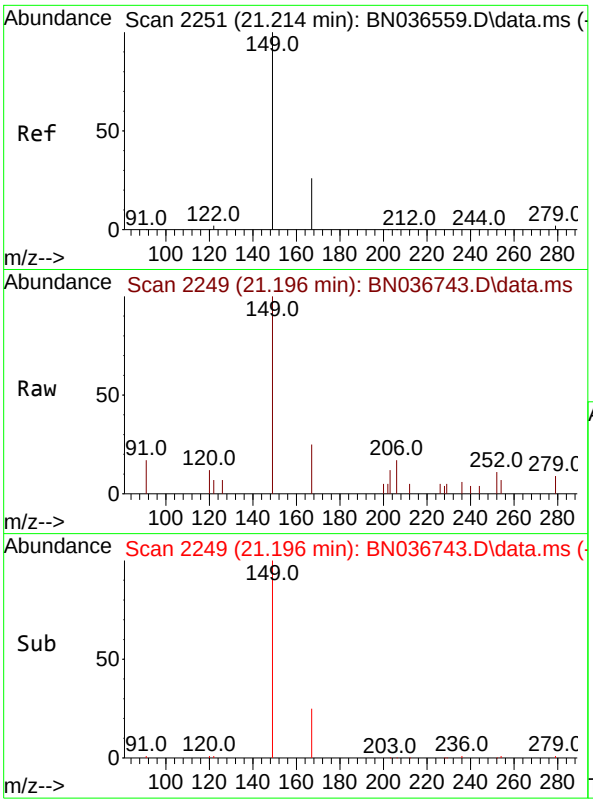


#31
Terphenyl-d14
Concen: 0.449 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Tgt Ion:244 Resp: 4537

Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.6	14.4
122	17.5	13.9	20.9



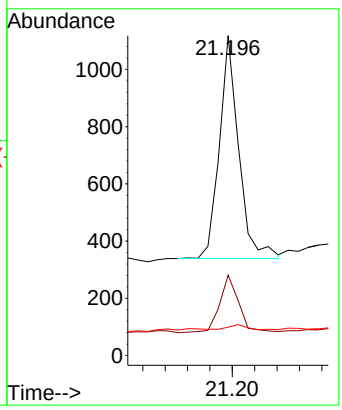


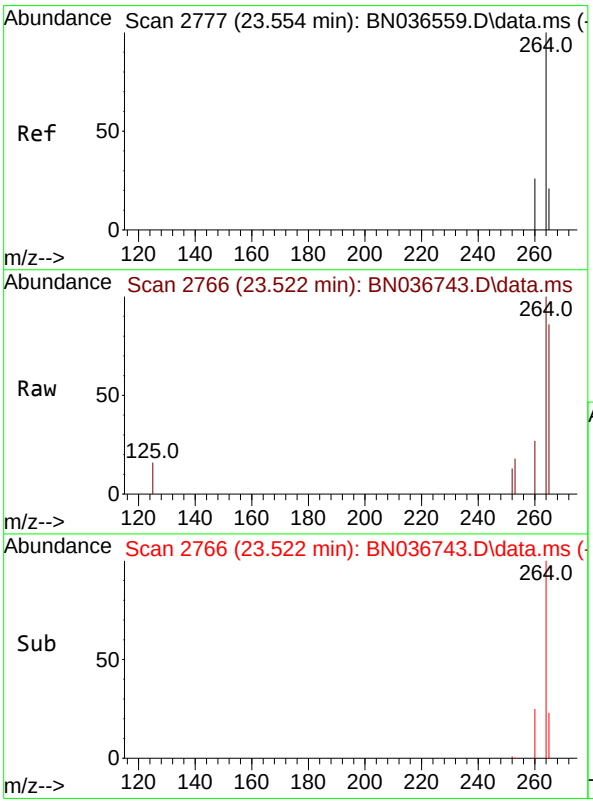
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.089 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Instrument :
BNA_N
ClientSampleId :
GM38-RW3-MW1-20250318

Tgt Ion:149 Resp: 932

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	3.3	3.6	5.4#

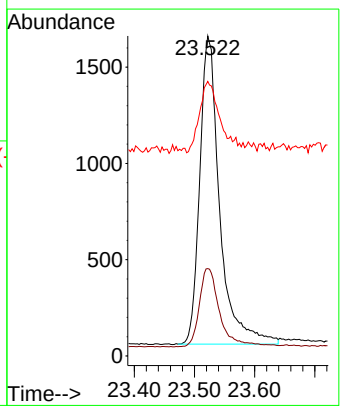




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2766
Delta R.T. -0.032 min
Lab File: BN036743.D
Acq: 27 Mar 2025 18:39

Tgt Ion:264 Resp: 3687

Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.6	33.8
265	85.8	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	DUP08-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036744.D	1	03/20/25 10:49	03/27/25 19:15	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.20	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		71%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1500	7.703				
1146-65-2	Naphthalene-d8	3630	10.487				
15067-26-2	Acenaphthene-d10	2230	14.345				
1517-22-2	Phenanthrene-d10	5170	17.086				
1719-03-5	Chrysene-d12	4660	21.277				
1520-96-3	Perylene-d12	4210	23.522				

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\BN032725\
Data File : BN036744.D
Acq On : 27 Mar 2025 19:15
Operator : RC/JU
Sample : Q1608-10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Quant Time: Mar 28 00:57:46 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

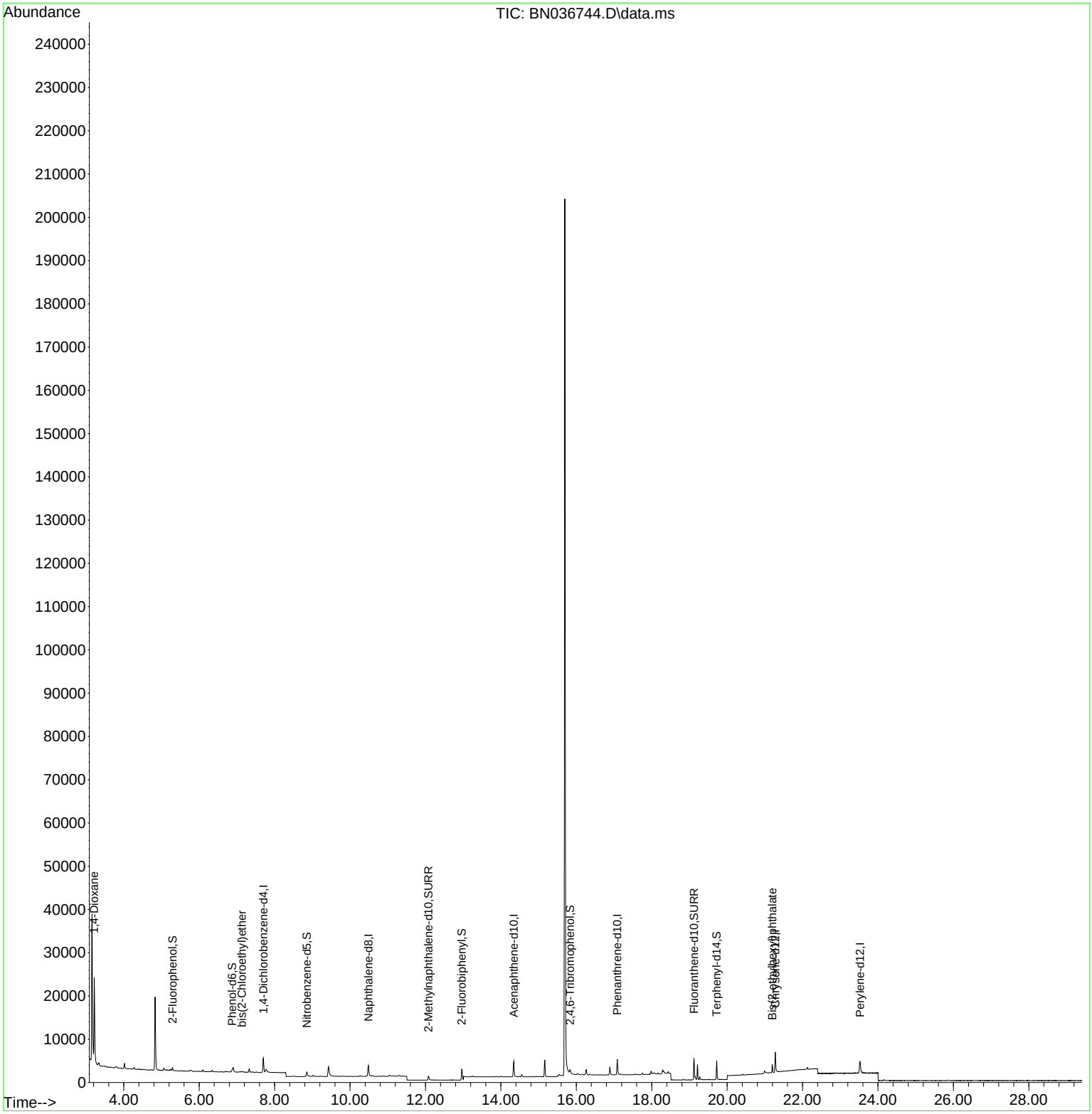
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1495	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3627	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2226	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5166	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4662	0.400	ng	-0.02
35) Perylene-d12	23.522	264	4214	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	520	0.149	ng	-0.01
5) Phenol-d6	6.872	99	394	0.092	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1069	0.271	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1468	0.272	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	457	0.452	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	3667	0.283	ng	-0.03
27) Fluoranthene-d10	19.122	212	5822	0.440	ng	-0.02
31) Terphenyl-d14	19.722	244	4214	0.377	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	10214	6.159	ng	97
6) bis(2-Chloroethyl)ether	7.132	93	110	0.025	ng	# 84
34) Bis(2-ethylhexyl)phtha...	21.196	149	1736	0.150	ng	# 98

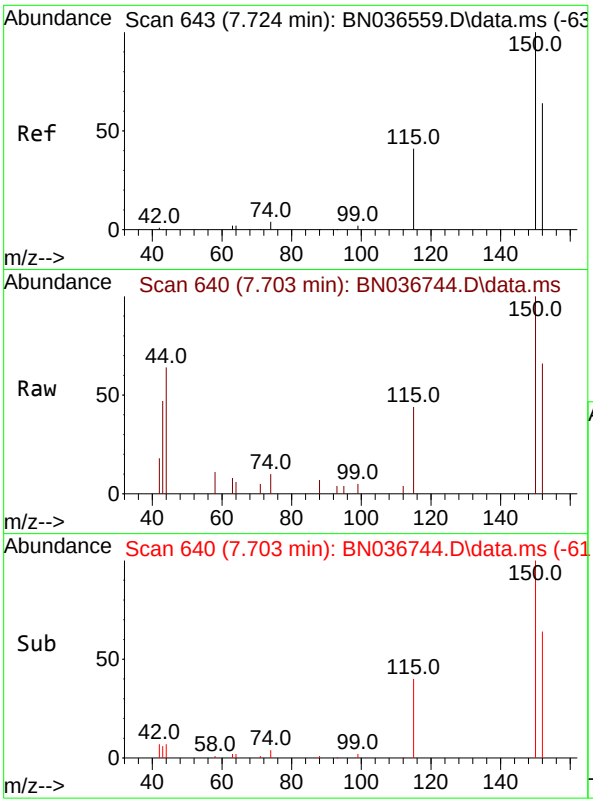
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036744.D
Acq On : 27 Mar 2025 19:15
Operator : RC/JU
Sample : Q1608-10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Quant Time: Mar 28 00:57:46 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



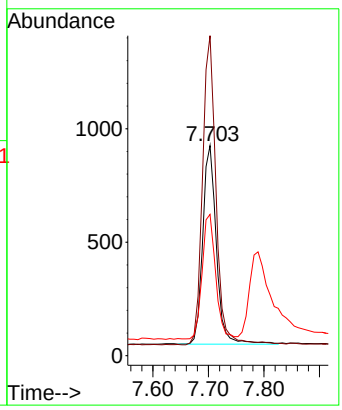


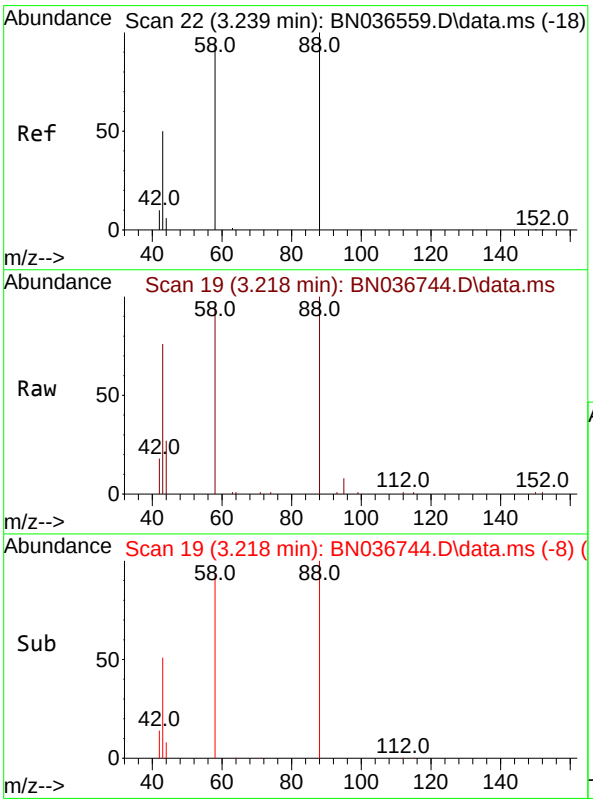
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion:152 Resp: 1495

Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.7	185.5
115	67.3	54.3	81.5

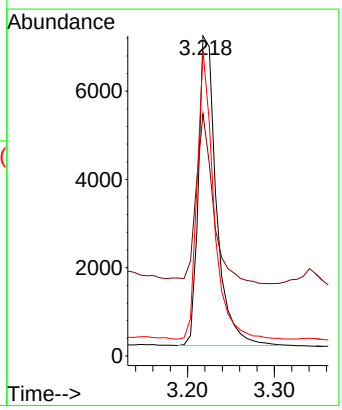


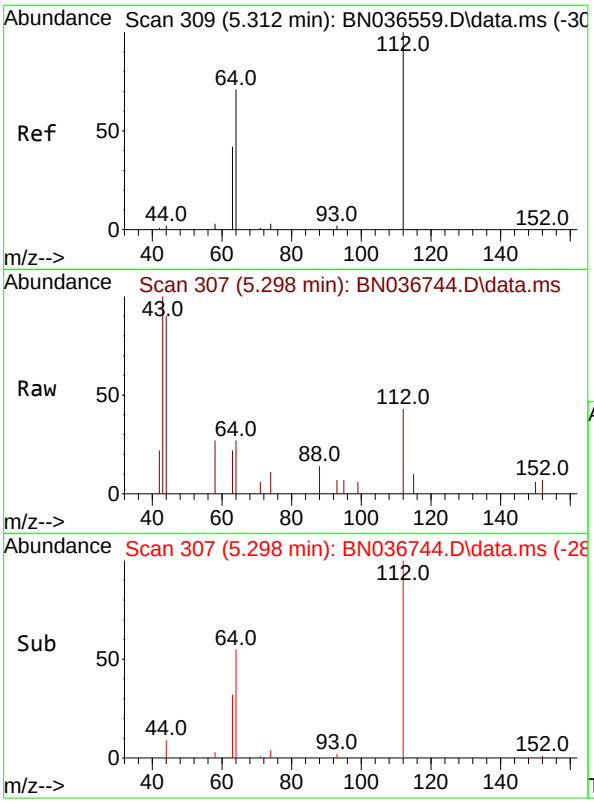


#2
1,4-Dioxane
Concen: 6.159 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Tgt Ion: 88 Resp: 10214

Ion	Ratio	Lower	Upper
88	100		
43	51.7	37.8	56.8
58	85.7	67.4	101.2



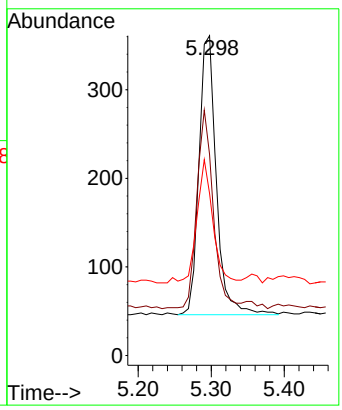


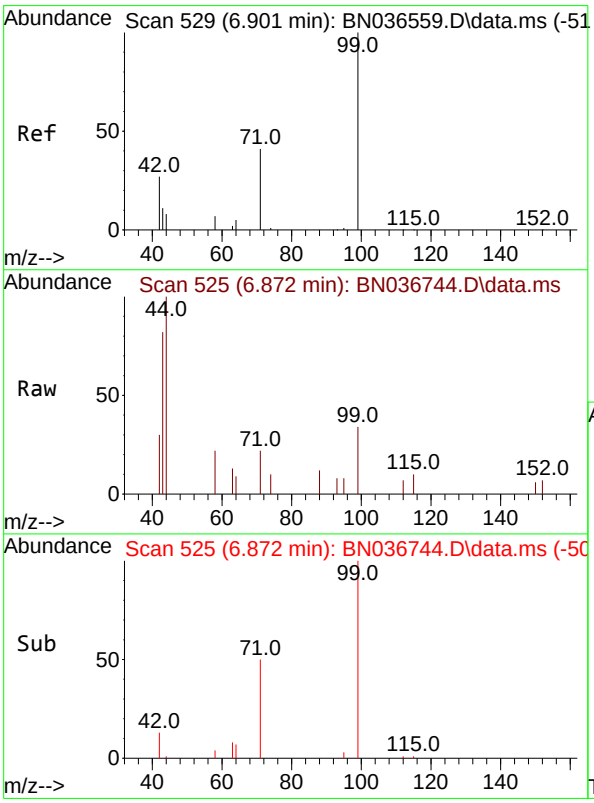
#4
2-Fluorophenol
Concen: 0.149 ng
RT: 5.298 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion:112 Resp: 520

Ion	Ratio	Lower	Upper
112	100		
64	66.0	53.1	79.7
63	42.1	31.8	47.8

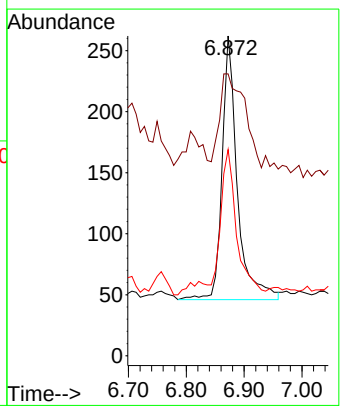


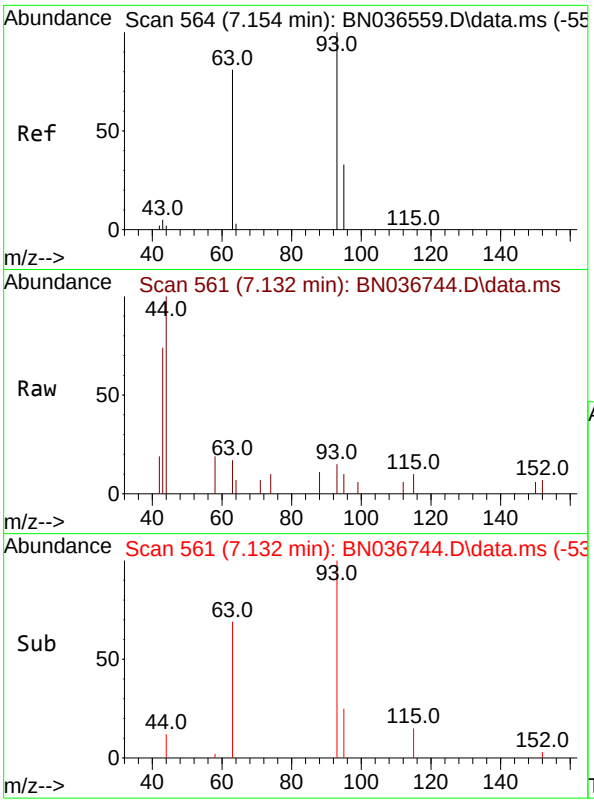


#5
Phenol-d6
Concen: 0.092 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Tgt Ion: 99 Resp: 394

Ion	Ratio	Lower	Upper
99	100		
42	57.9	26.5	39.7#
71	55.1	34.1	51.1#



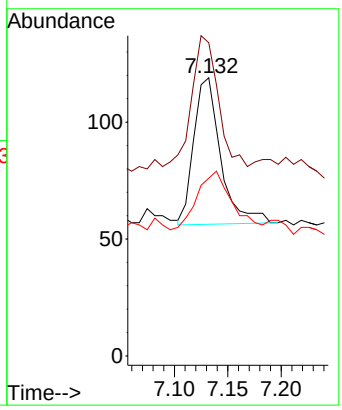


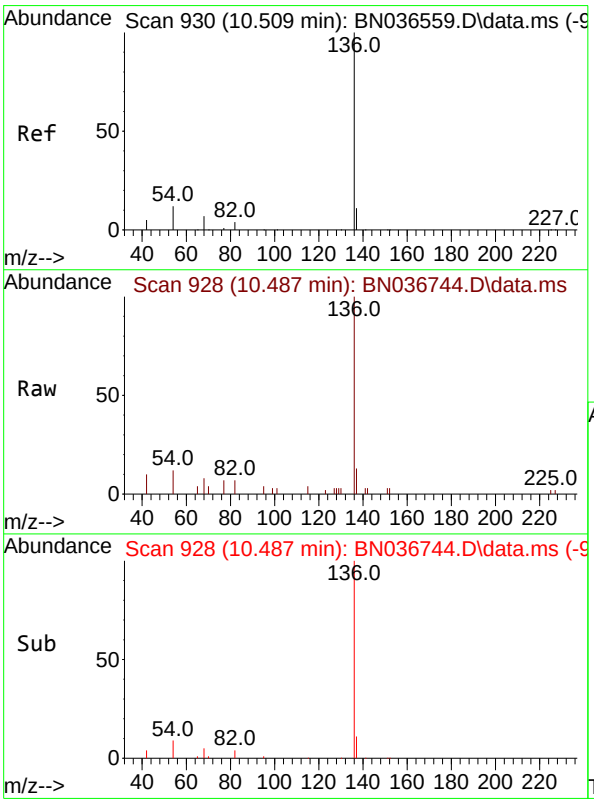
#6
bis(2-Chloroethyl)ether
Concen: 0.025 ng
RT: 7.132 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion: 93 Resp: 110

Ion	Ratio	Lower	Upper
93	100		
63	92.7	67.7	101.5
95	50.9	25.6	38.4#

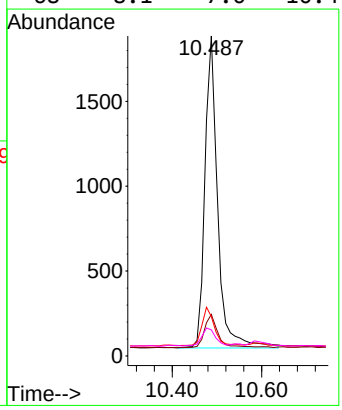


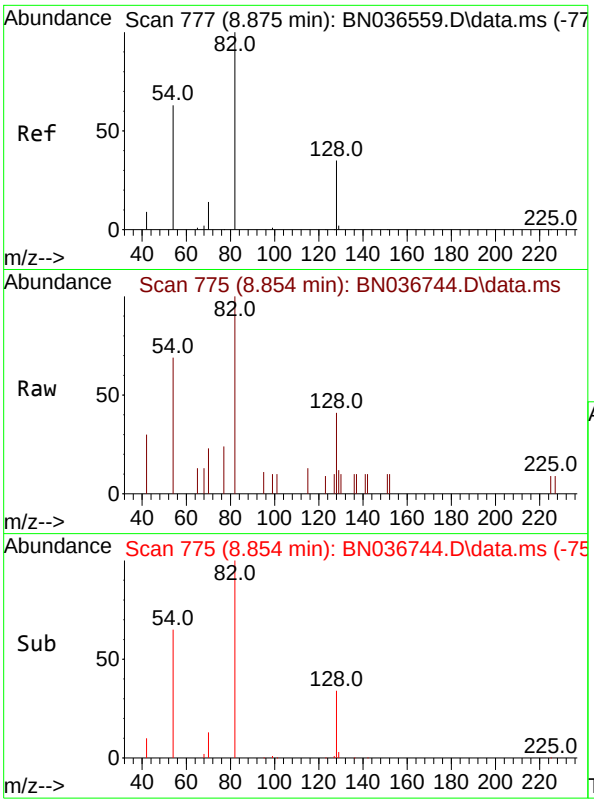


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Tgt Ion:136 Resp: 3627

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	12.3	11.5	17.3
68	8.1	7.0	10.4



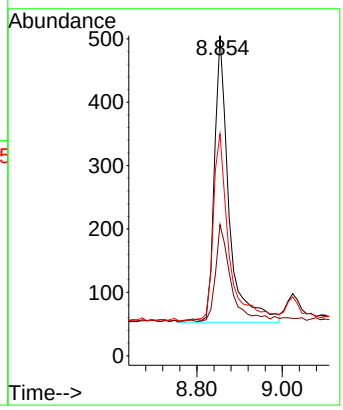


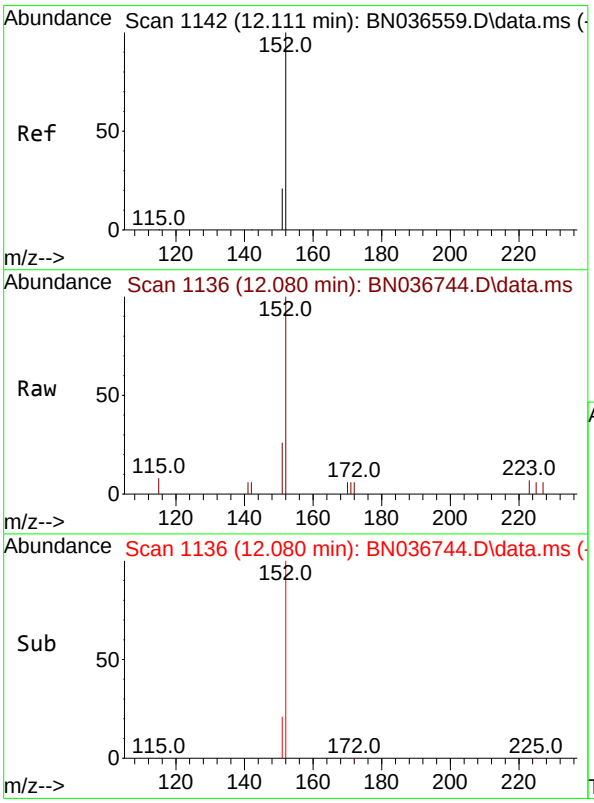
#8
Nitrobenzene-d5
Concen: 0.271 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion: 82 Resp: 1069

Ion	Ratio	Lower	Upper
82	100		
128	41.0	30.6	45.8
54	69.3	52.2	78.4

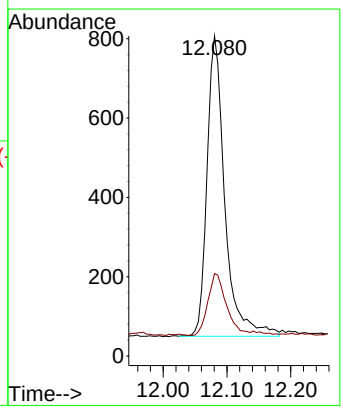


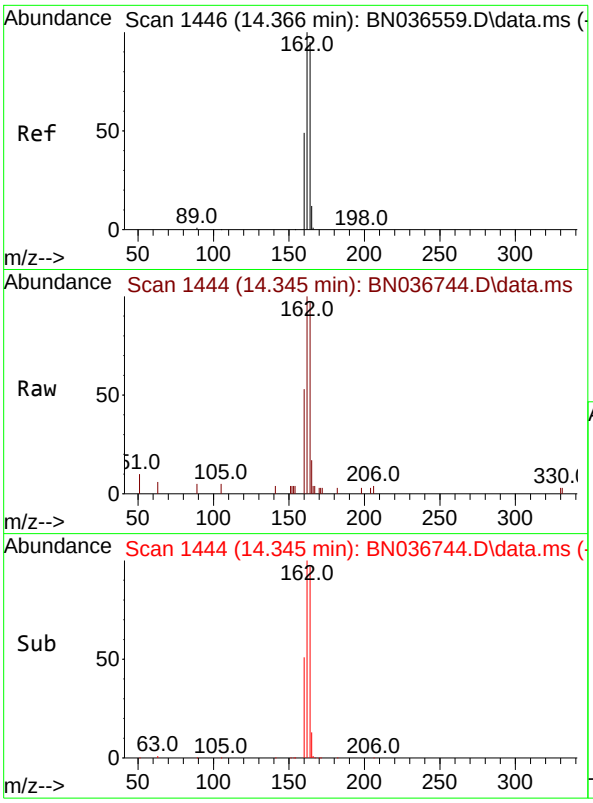


#11
2-Methylnaphthalene-d10
Concen: 0.272 ng
RT: 12.080 min Scan# 1136
Delta R.T. -0.030 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Tgt Ion:152 Resp: 1468

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6



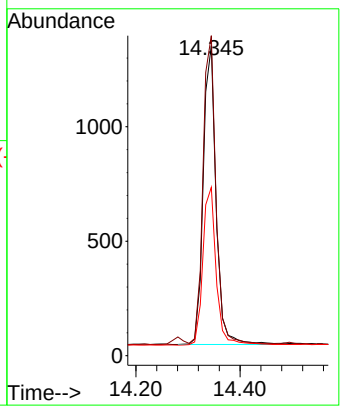


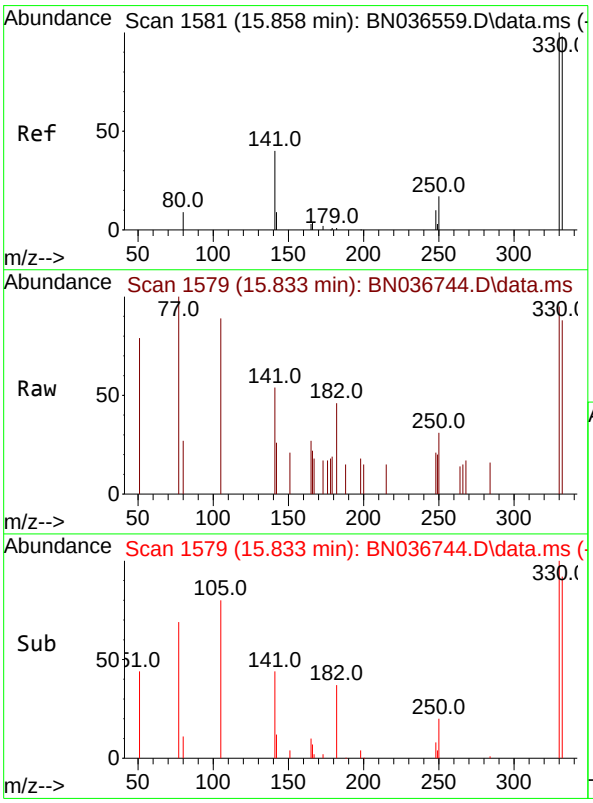
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion:164 Resp: 2226

Ion	Ratio	Lower	Upper
164	100		
162	103.2	84.2	126.2
160	54.2	42.2	63.2

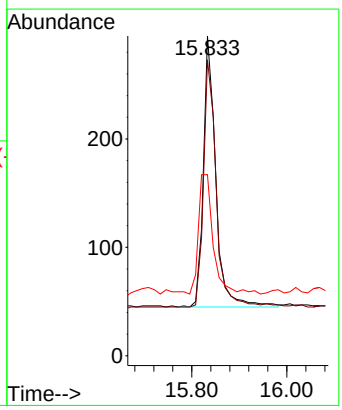


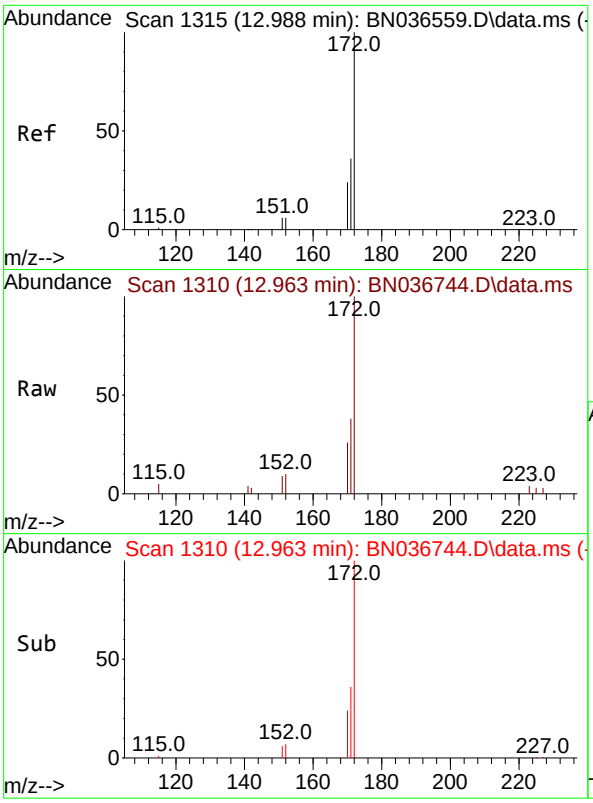


#14
2,4,6-Tribromophenol
Concen: 0.452 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Tgt Ion:330 Resp: 457

Ion	Ratio	Lower	Upper
330	100		
332	93.0	75.2	112.8
141	52.1	43.4	65.2



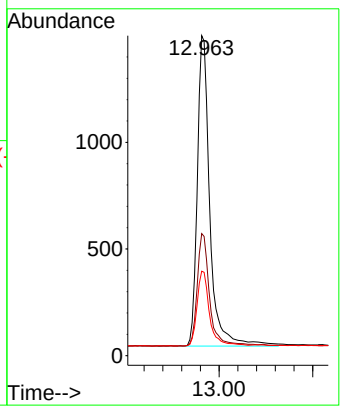


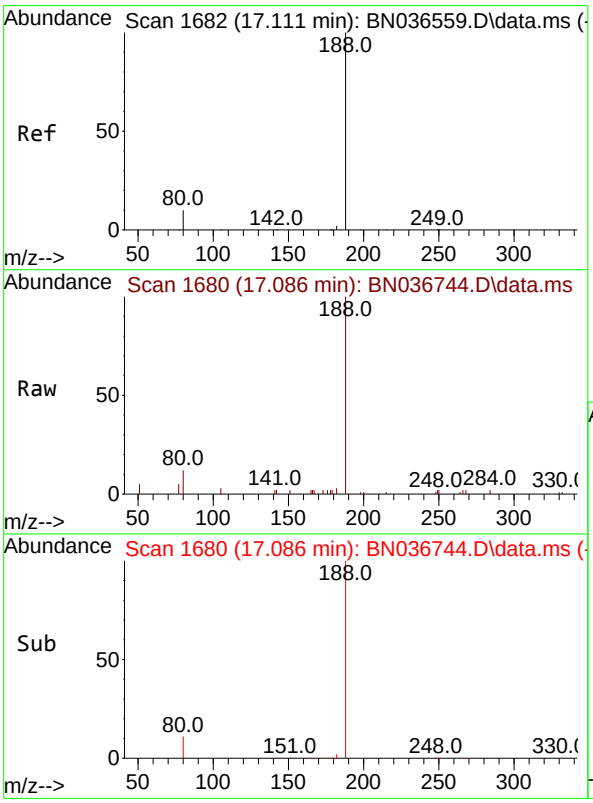
#15
2-Fluorobiphenyl
Concen: 0.283 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion:172 Resp: 3667

Ion	Ratio	Lower	Upper
172	100		
171	38.1	29.5	44.3
170	26.4	20.2	30.4

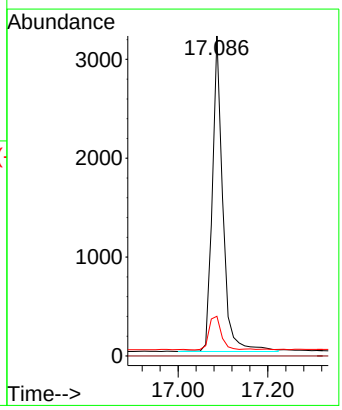


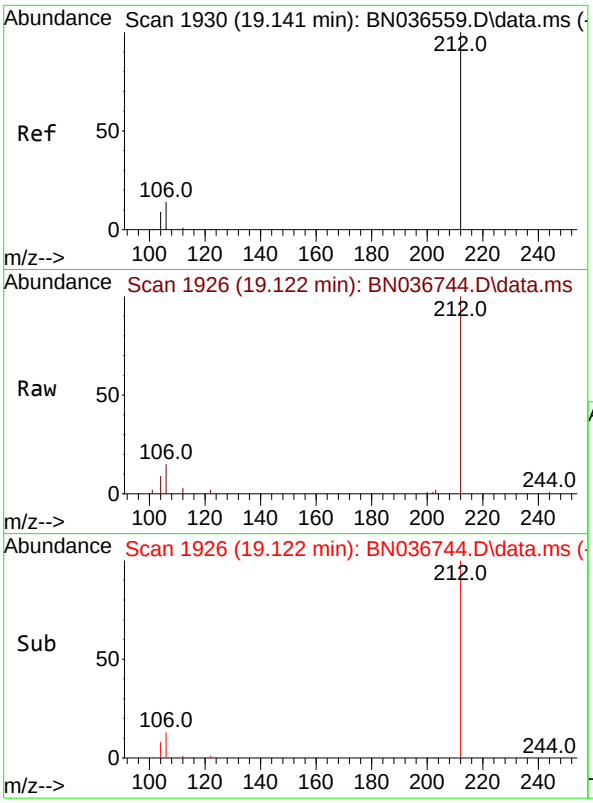


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Tgt Ion:188 Resp: 5166

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.4	8.8	13.2



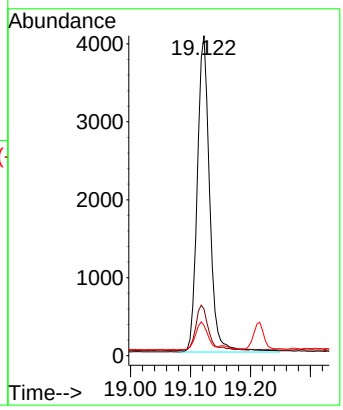


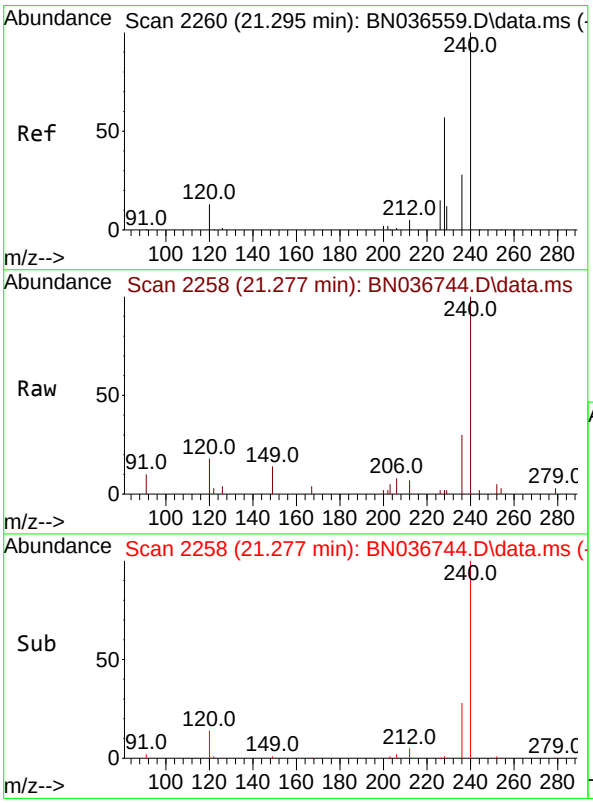
#27
Fluoranthene-d10
Concen: 0.440 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion:212 Resp: 5822

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	8.6	7.3	10.9

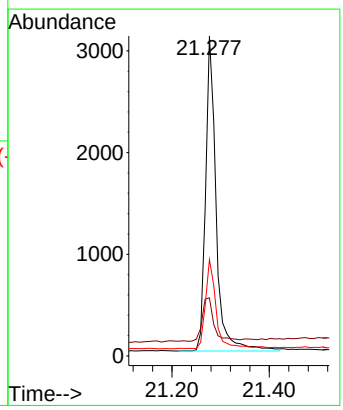


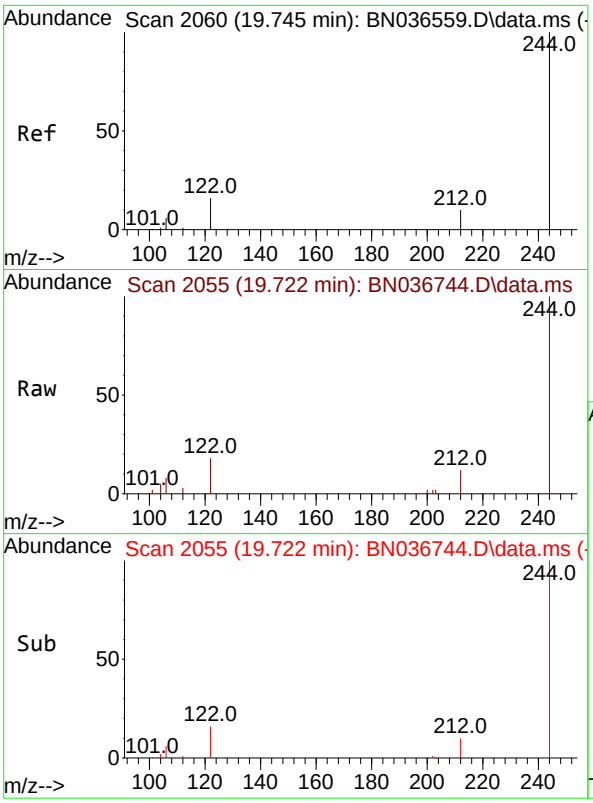


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Tgt Ion:240 Resp: 4662

Ion	Ratio	Lower	Upper
240	100		
120	18.1	14.6	22.0
236	30.1	24.1	36.1



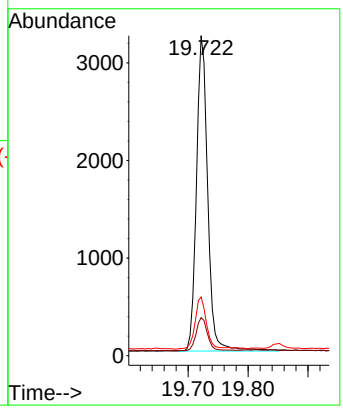


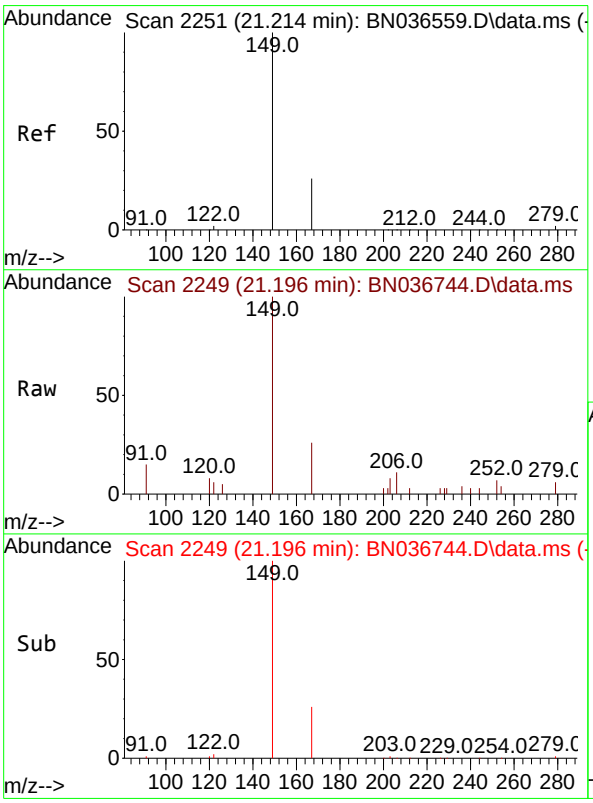
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion:244 Resp: 4214

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	18.4	13.9	20.9

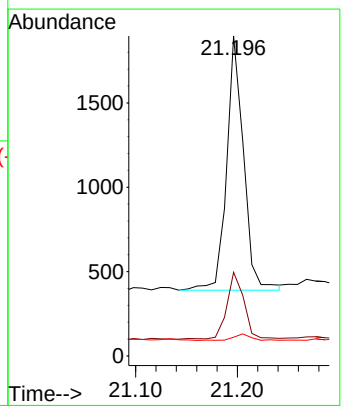


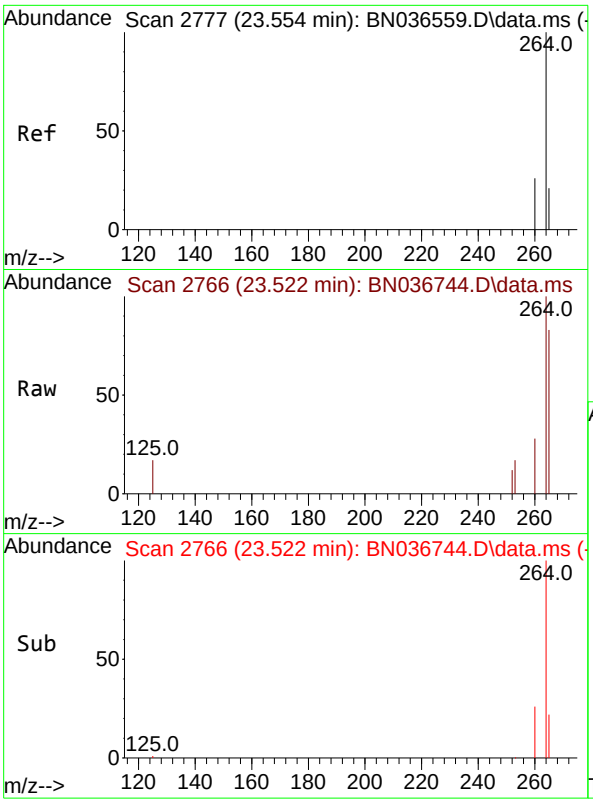


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.150 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Tgt Ion:149 Resp: 1736

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.7	31.1
279	2.4	3.6	5.4#



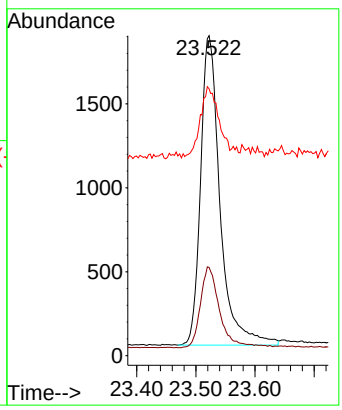


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036744.D
Acq: 27 Mar 2025 19:15

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318

Tgt Ion:264 Resp: 4214

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.6	33.8
265	83.4	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	DUP08-20250318DL	SDG No.:	Q1608
Lab Sample ID:	Q1608-10DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036775.D	2	03/20/25 10:49	03/28/25 16:25	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1380	7.696				
1146-65-2	Naphthalene-d8	3370	10.488				
15067-26-2	Acenaphthene-d10	2320	14.334				
1517-22-2	Phenanthrene-d10	5120	17.087				
1719-03-5	Chrysene-d12	4330	21.277				
1520-96-3	Perylene-d12	3810	23.519				

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\BN032825\
Data File : BN036775.D
Acq On : 28 Mar 2025 16:25
Operator : RC/JU
Sample : Q1608-10DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Quant Time: Mar 28 18:22:37 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

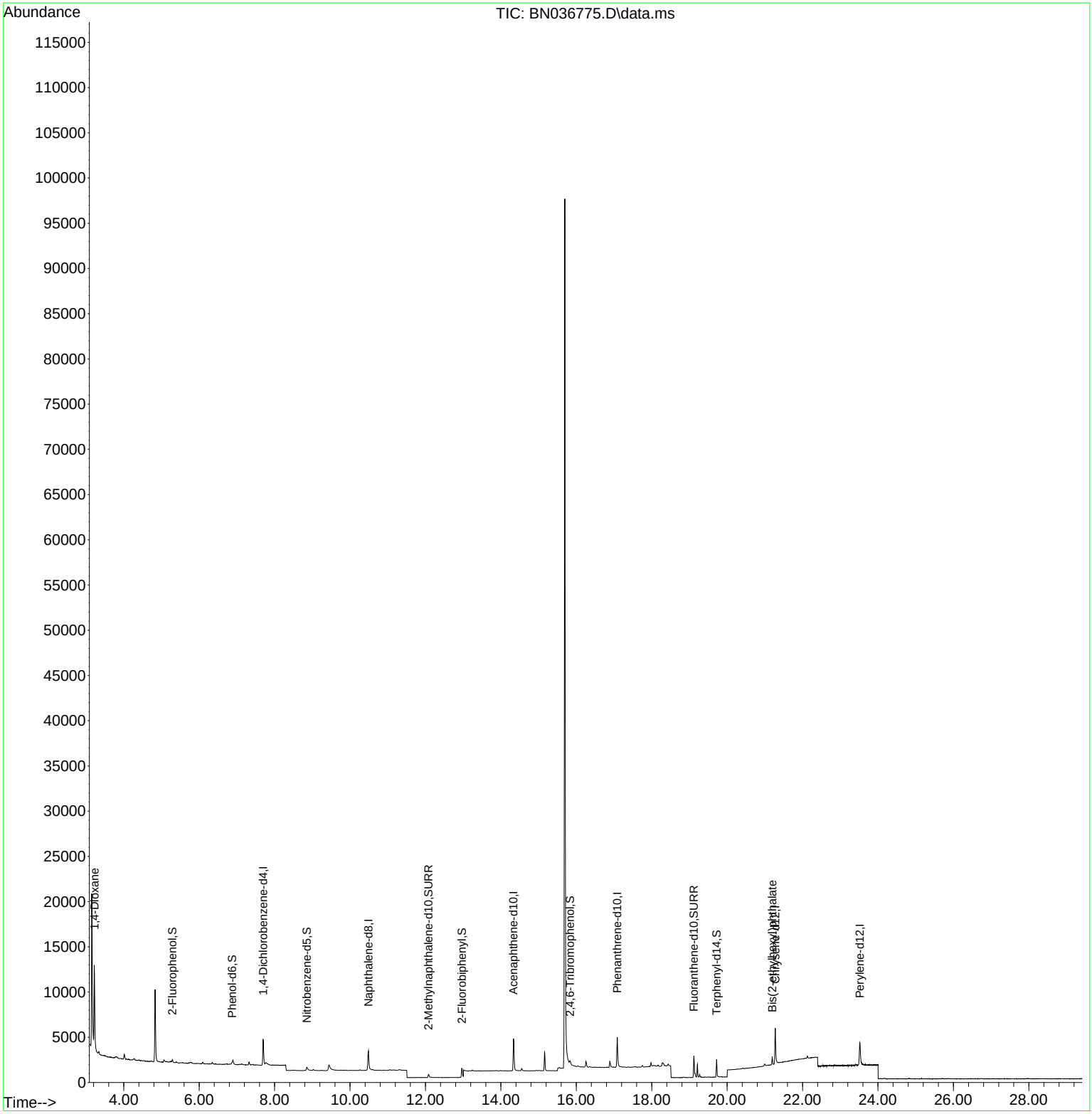
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1382	0.400	ng	-0.03
7) Naphthalene-d8	10.488	136	3369	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2315	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	5117	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4327	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3811	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	232	0.072	ng	-0.02
5) Phenol-d6	6.872	99	179	0.045	ng	-0.03
8) Nitrobenzene-d5	8.854	82	495	0.135	ng	-0.02
11) 2-Methylnaphthalene-d10	12.081	152	687	0.137	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	221	0.210	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	1690	0.125	ng	-0.02
27) Fluoranthene-d10	19.118	212	2923	0.223	ng	-0.02
31) Terphenyl-d14	19.722	244	2026	0.195	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	5106	3.331	ng	95
34) Bis(2-ethylhexyl)phtha...	21.196	149	926	0.086	ng	# 94

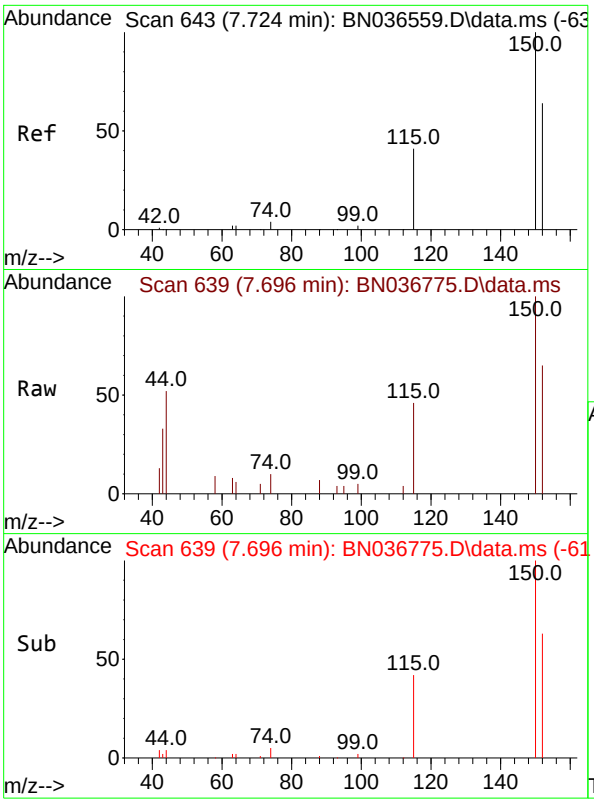
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036775.D
Acq On : 28 Mar 2025 16:25
Operator : RC/JU
Sample : Q1608-10DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Quant Time: Mar 28 18:22:37 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



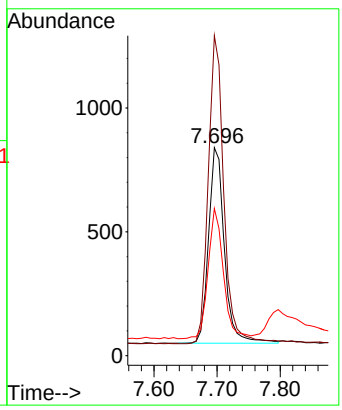


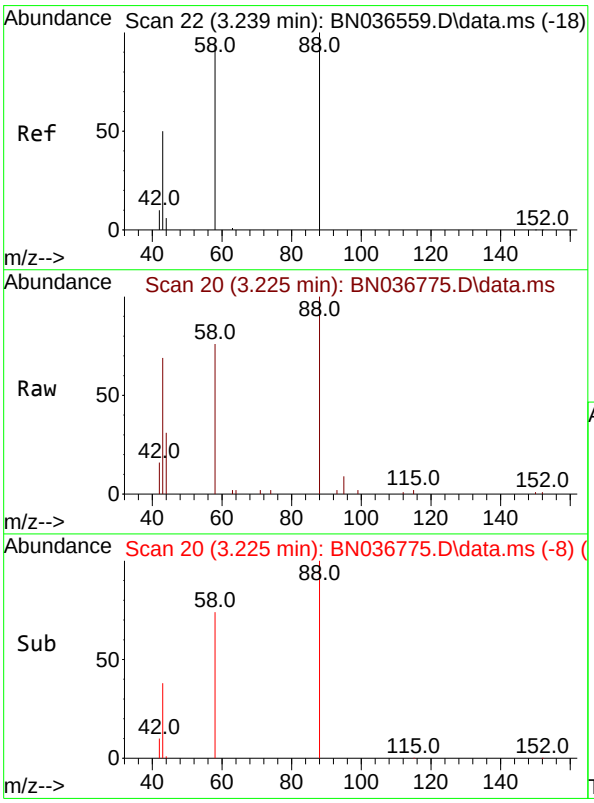
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Tgt Ion:152 Resp: 1382

Ion	Ratio	Lower	Upper
152	100		
150	153.8	123.7	185.5
115	70.7	54.3	81.5

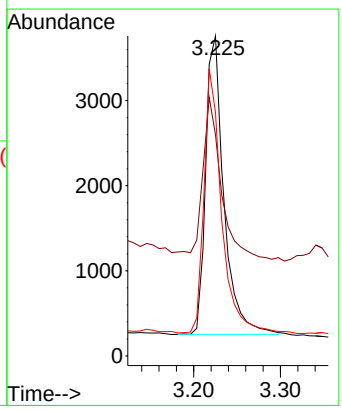


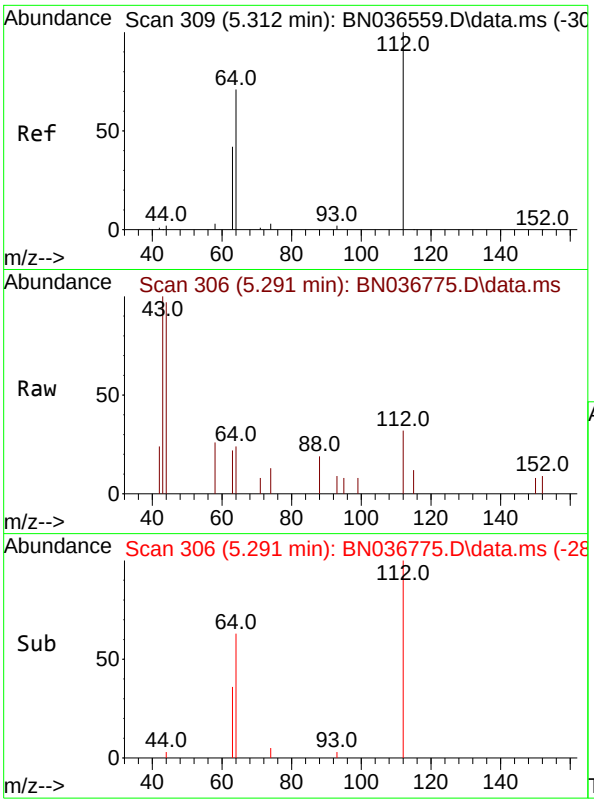


#2
1,4-Dioxane
Concen: 3.331 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Tgt Ion: 88 Resp: 5106

Ion	Ratio	Lower	Upper
88	100		
43	55.4	37.8	56.8
58	85.7	67.4	101.2



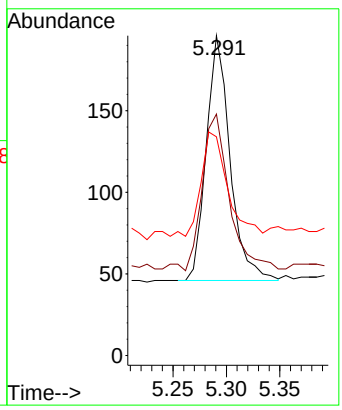


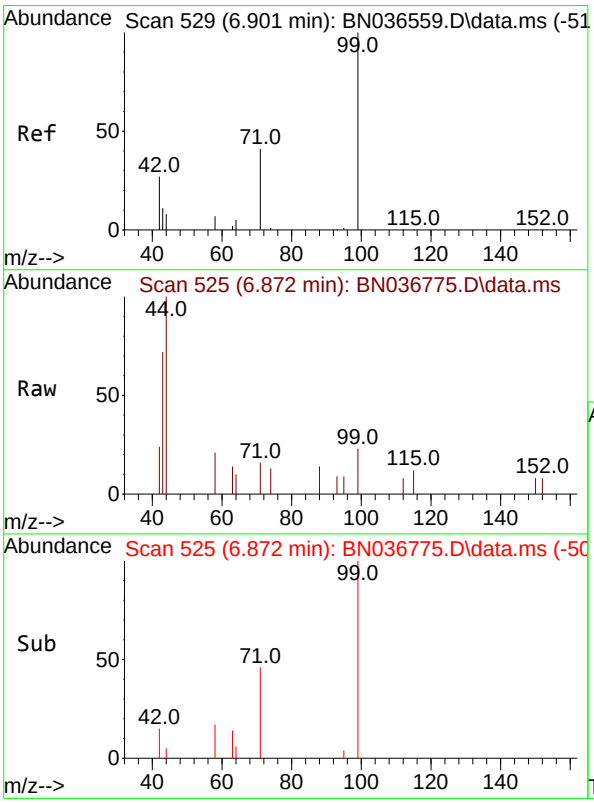
#4
2-Fluorophenol
Concen: 0.072 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Tgt Ion:112 Resp: 232

Ion	Ratio	Lower	Upper
112	100		
64	71.6	53.1	79.7
63	47.4	31.8	47.8

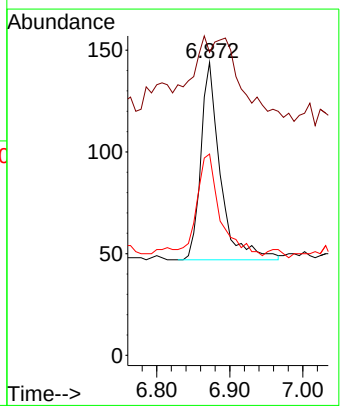


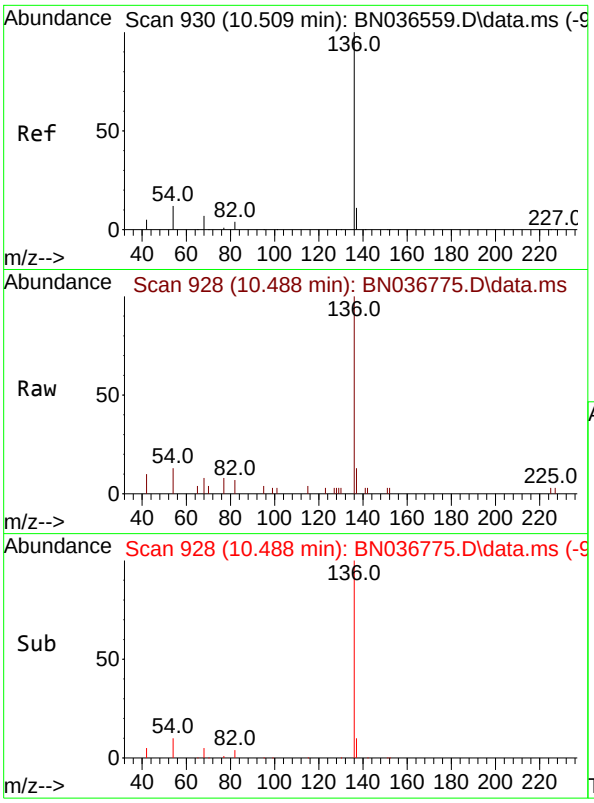


#5
Phenol-d6
Concen: 0.045 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Tgt Ion: 99 Resp: 179

Ion	Ratio	Lower	Upper
99	100		
42	16.2	26.5	39.7#
71	60.9	34.1	51.1#



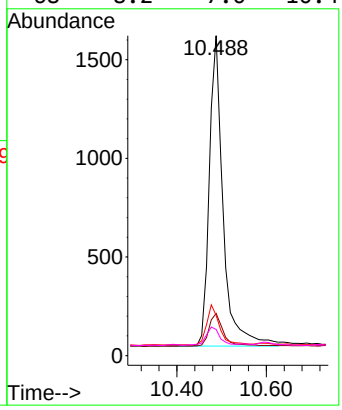


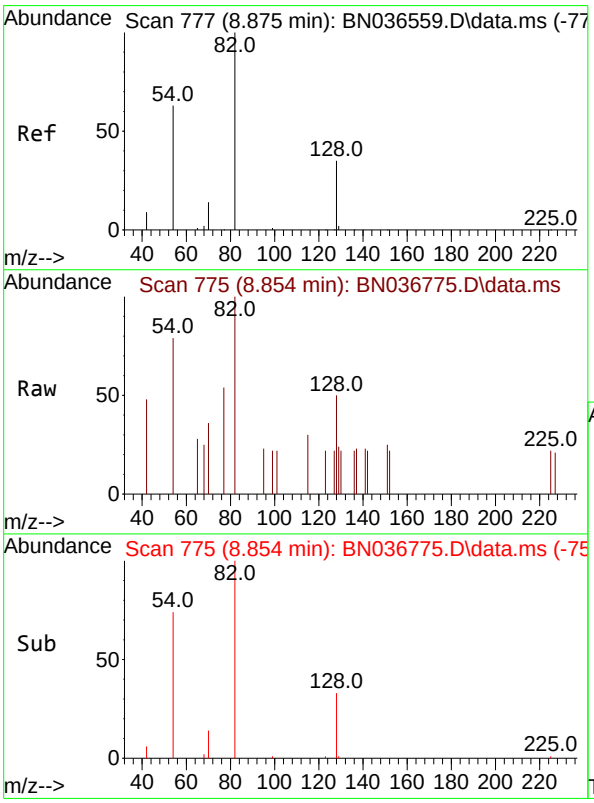
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Tgt Ion:136 Resp: 3369

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	12.6	11.5	17.3
68	8.2	7.0	10.4

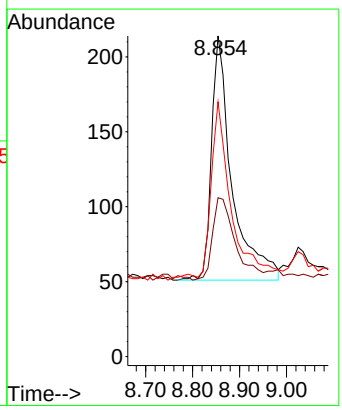


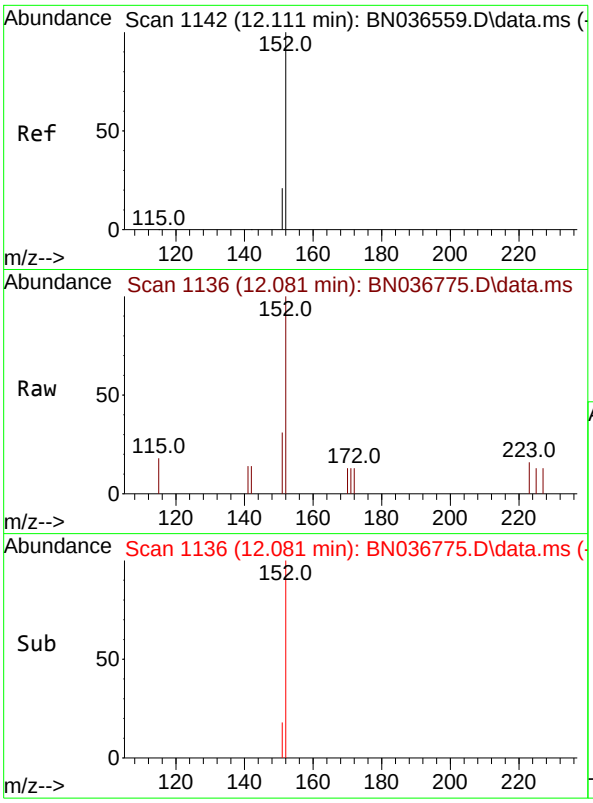


#8
Nitrobenzene-d5
Concen: 0.135 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Tgt Ion: 82 Resp: 495

Ion	Ratio	Lower	Upper
82	100		
128	49.5	30.6	45.8#
54	79.4	52.2	78.4#



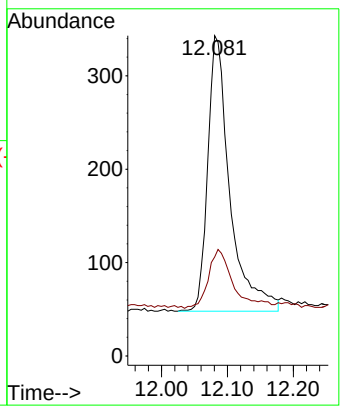


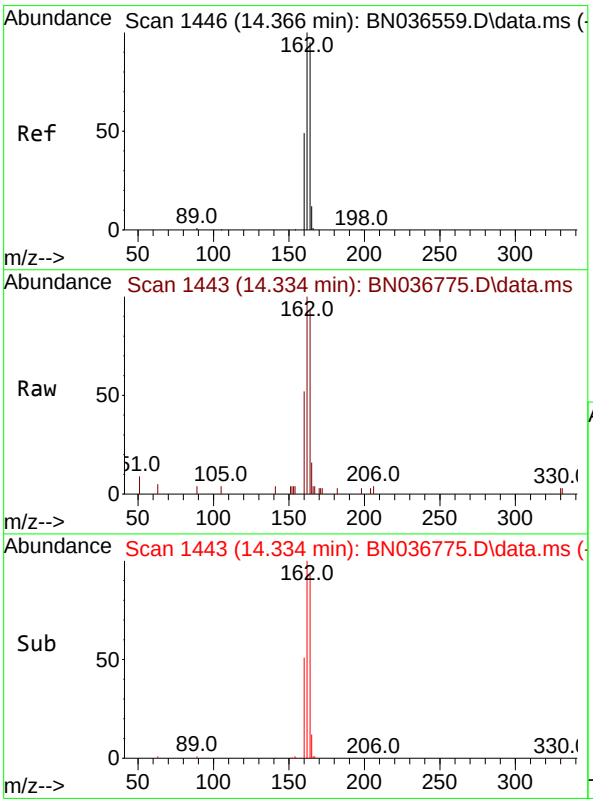
#11
2-Methylnaphthalene-d10
Concen: 0.137 ng
RT: 12.081 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Tgt Ion:152 Resp: 687

Ion	Ratio	Lower	Upper
152	100		
151	24.2	17.0	25.6

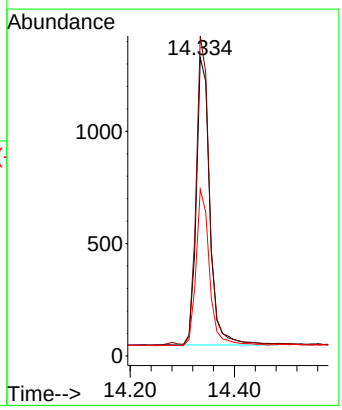


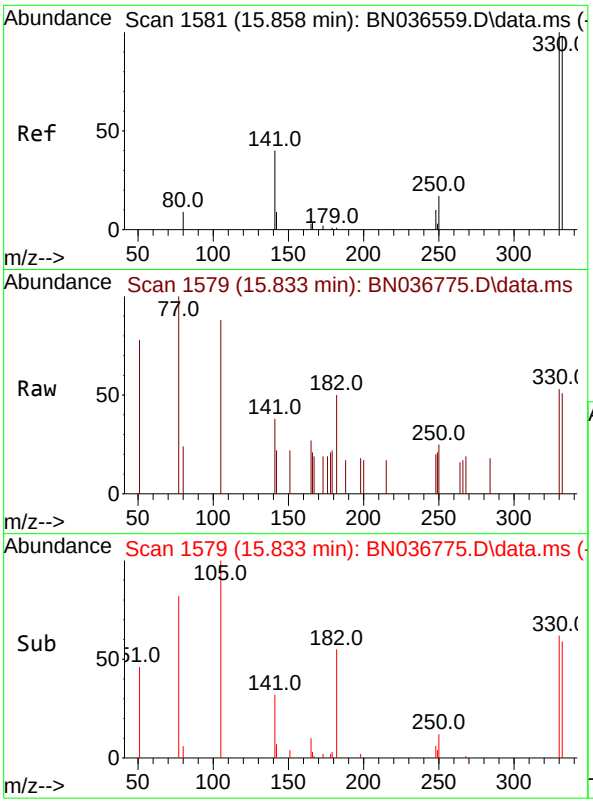


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Tgt Ion:164 Resp: 2315

Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.2
160	55.8	42.2	63.2



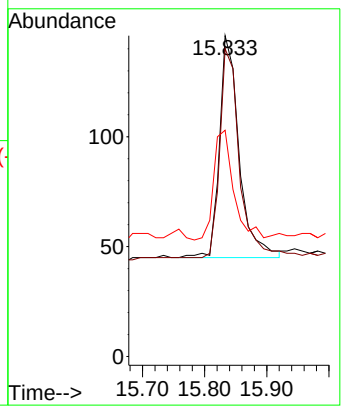


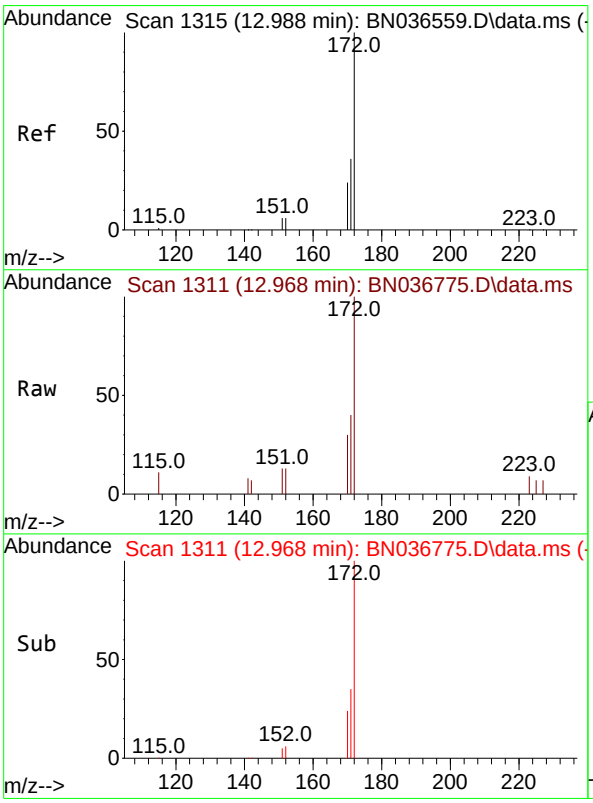
#14
2,4,6-Tribromophenol
Concen: 0.210 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Tgt Ion:330 Resp: 221

Ion	Ratio	Lower	Upper
330	100		
332	95.0	75.2	112.8
141	51.1	43.4	65.2

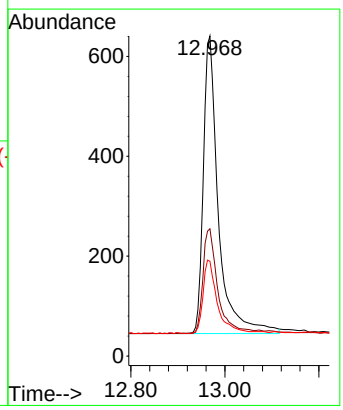


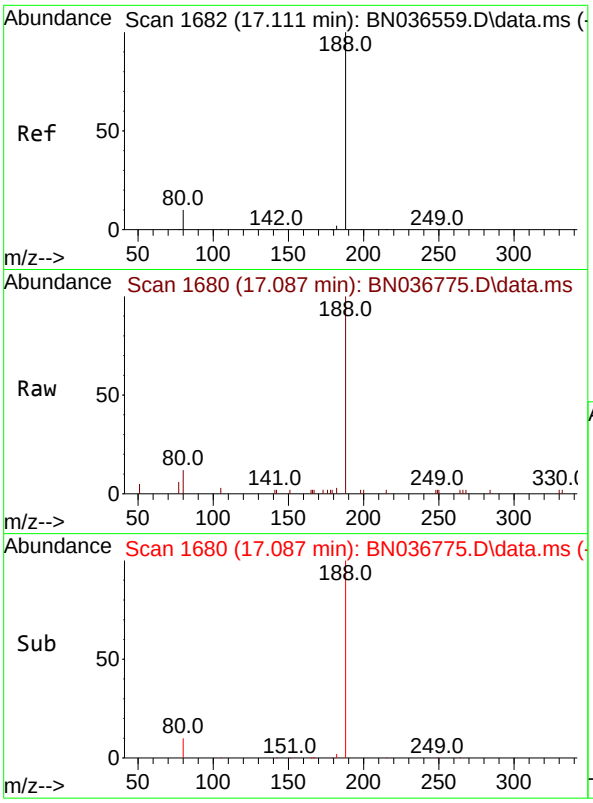


#15
2-Fluorobiphenyl
Concen: 0.125 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Tgt Ion:172 Resp: 1690

Ion	Ratio	Lower	Upper
172	100		
171	39.8	29.5	44.3
170	29.6	20.2	30.4



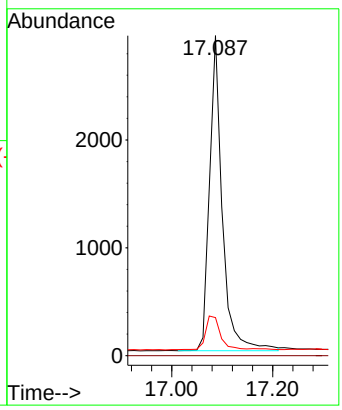


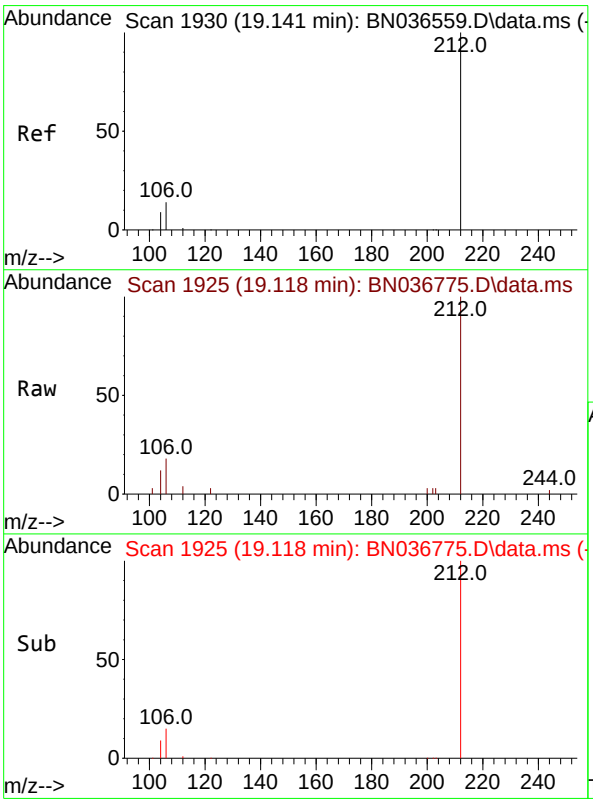
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Tgt Ion:188 Resp: 5117

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

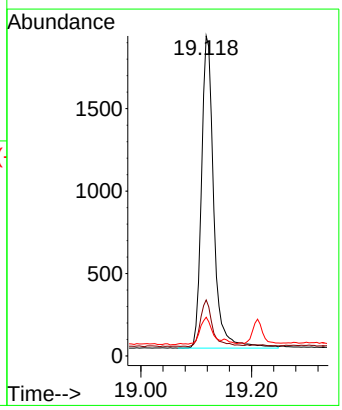


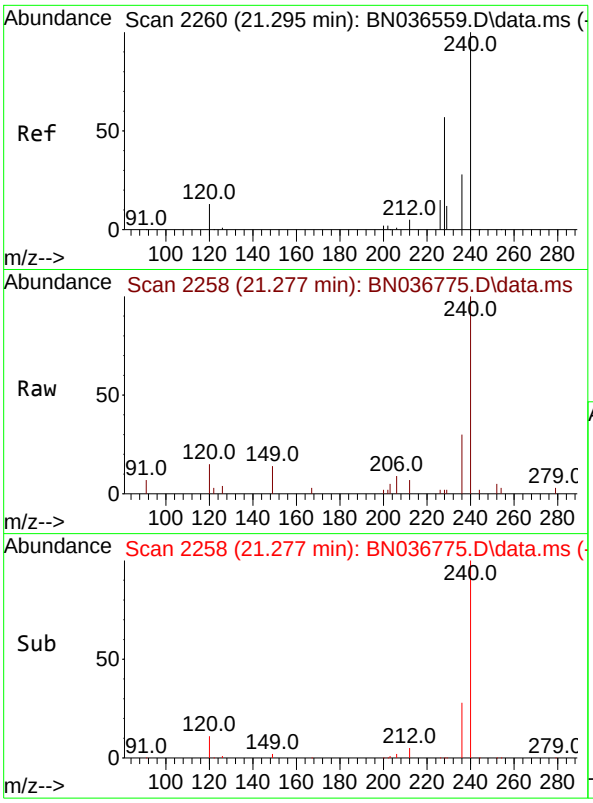


#27
Fluoranthene-d10
Concen: 0.223 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Tgt Ion:212 Resp: 2923

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.3	7.3	10.9



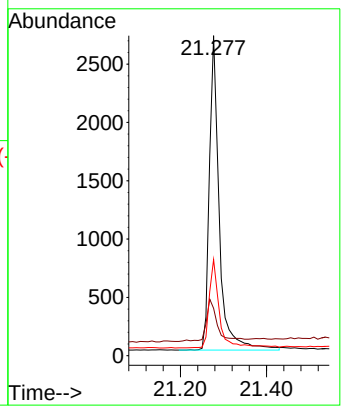


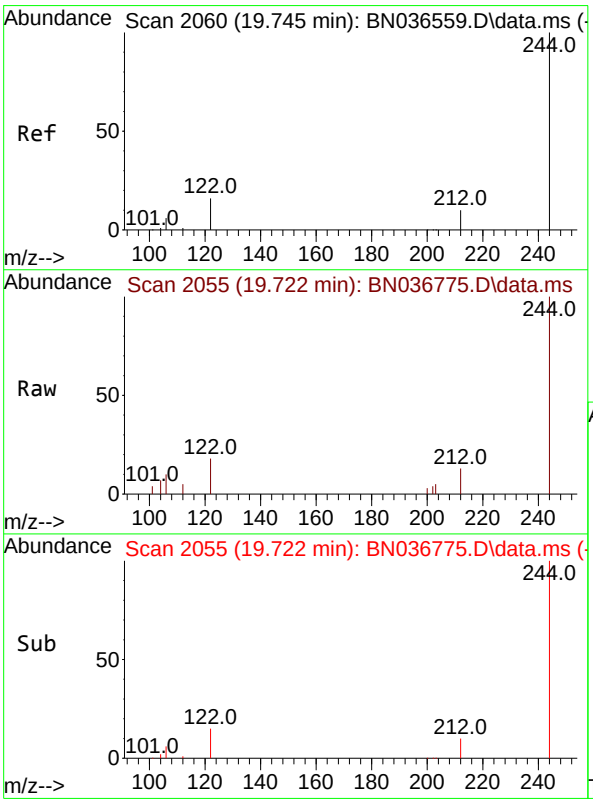
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Tgt Ion:240 Resp: 4327

Ion	Ratio	Lower	Upper
240	100		
120	14.8	14.6	22.0
236	30.1	24.1	36.1

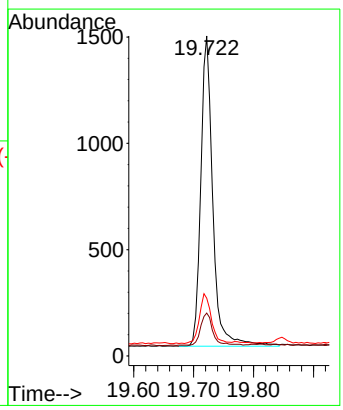


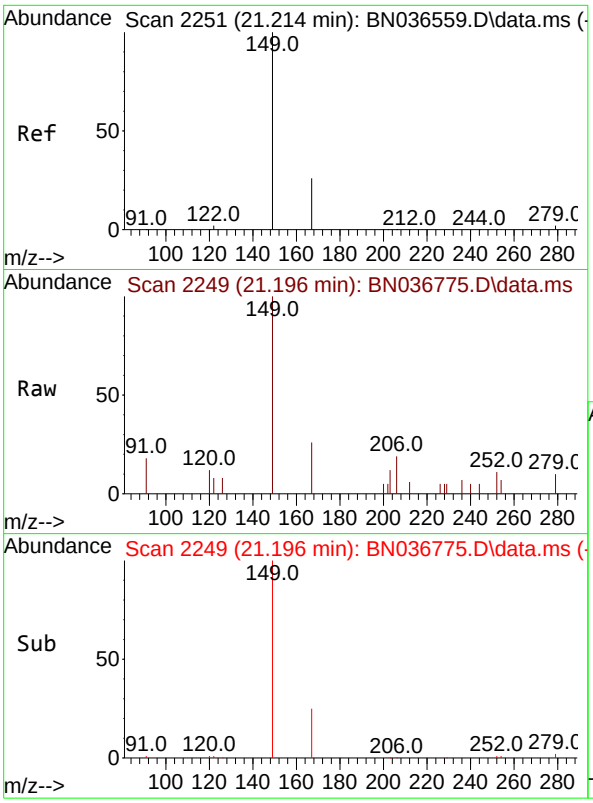


#31
Terphenyl-d14
Concen: 0.195 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Tgt Ion:244 Resp: 2026

Ion	Ratio	Lower	Upper
244	100		
212	13.4	9.6	14.4
122	18.1	13.9	20.9



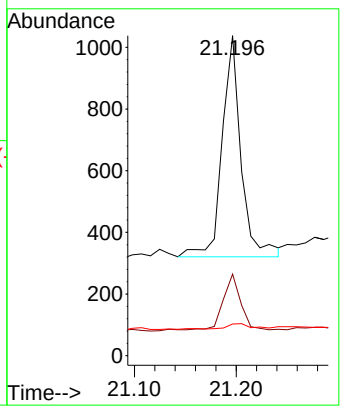


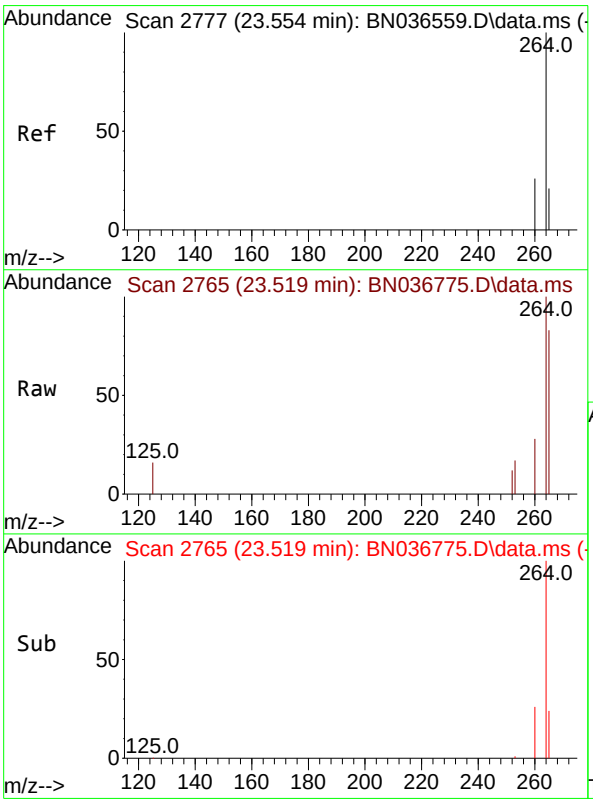
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.086 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Instrument :
BNA_N
ClientSampleId :
DUP08-20250318DL

Tgt Ion:149 Resp: 926

Ion	Ratio	Lower	Upper
149	100		
167	22.8	20.7	31.1
279	3.6	3.6	5.4#

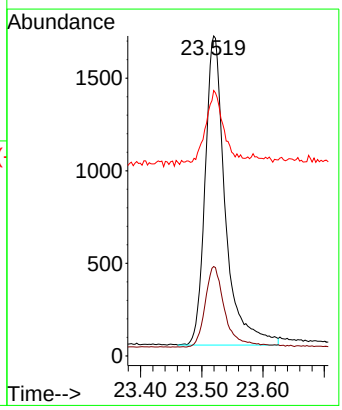




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036775.D
Acq: 28 Mar 2025 16:25

Tgt Ion:264 Resp: 3811

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.6	33.8
265	82.9	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D1-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-11	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036765.D	1	03/20/25 10:49	03/28/25 08:34	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.60		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		103%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.52		30 - 150		130%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1110	7.703				
1146-65-2	Naphthalene-d8	2730	10.488				
15067-26-2	Acenaphthene-d10	1740	14.334				
1517-22-2	Phenanthrene-d10	3890	17.087				
1719-03-5	Chrysene-d12	3480	21.277				
1520-96-3	Perylene-d12	3030	23.519				

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\BN032725\
Data File : BN036765.D
Acq On : 28 Mar 2025 08:34
Operator : RC/JU
Sample : Q1608-11
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Quant Time: Mar 28 09:00:06 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

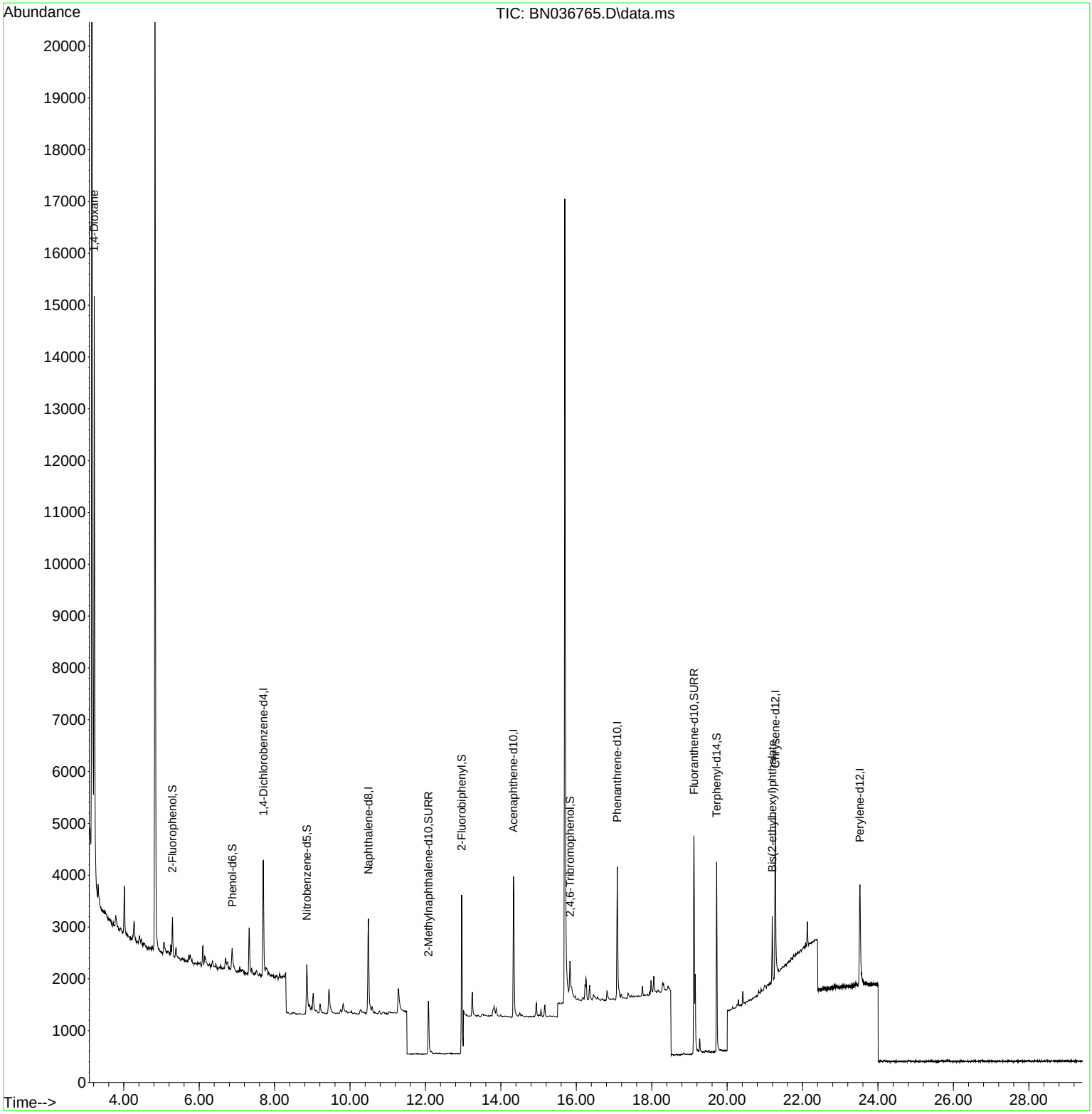
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1105	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	2727	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	1743	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	3887	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3482	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3032	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	548	0.213	ng	-0.02
5) Phenol-d6	6.879	99	388	0.122	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1039	0.350	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1673	0.412	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	433	0.547	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4070	0.401	ng	-0.03
27) Fluoranthene-d10	19.122	212	5184	0.520	ng	-0.02
31) Terphenyl-d14	19.722	244	3691	0.442	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	5626	4.590	ng	93
34) Bis(2-ethylhexyl)phtha...	21.196	149	1205	0.140	ng	97

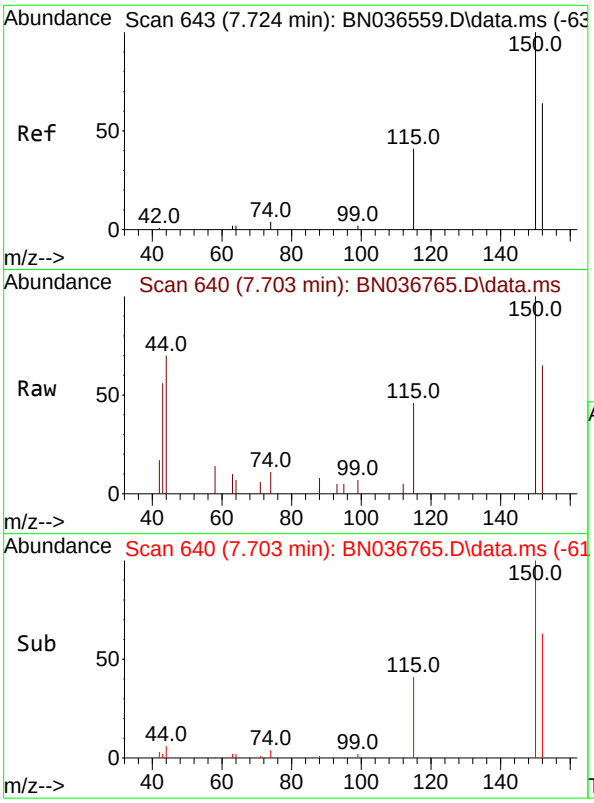
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036765.D
Acq On : 28 Mar 2025 08:34
Operator : RC/JU
Sample : Q1608-11
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Quant Time: Mar 28 09:00:06 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



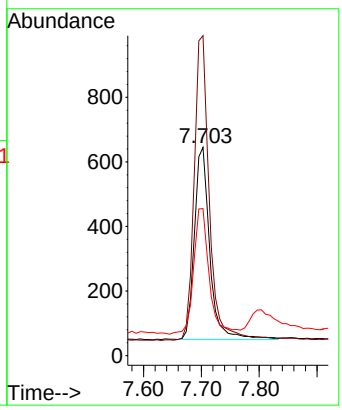


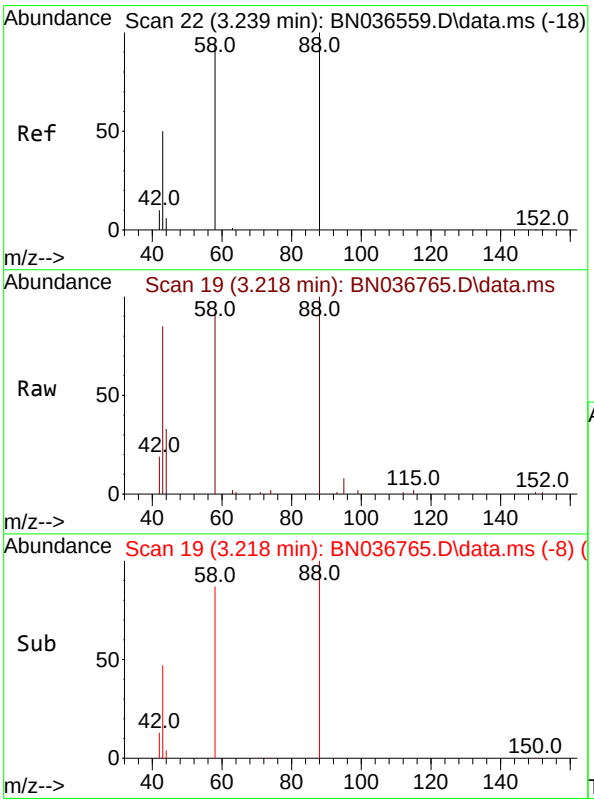
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Tgt Ion:152 Resp: 1105

Ion	Ratio	Lower	Upper
152	100		
150	153.6	123.7	185.5
115	70.5	54.3	81.5

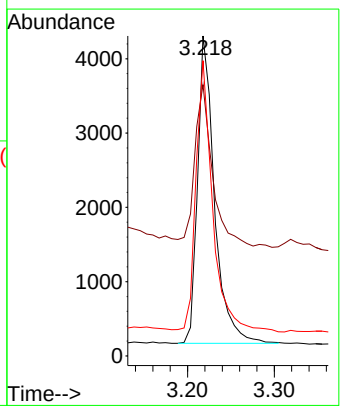


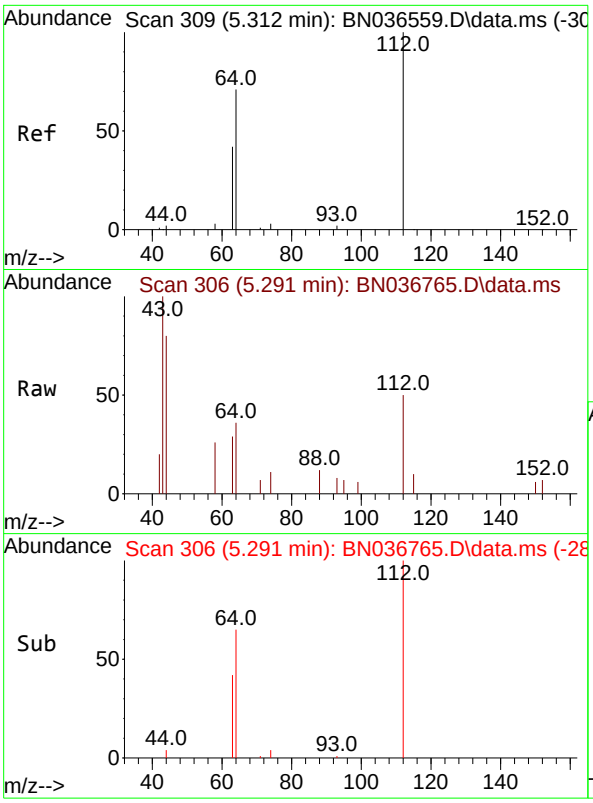


#2
1,4-Dioxane
Concen: 4.590 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Tgt Ion: 88 Resp: 5626

Ion	Ratio	Lower	Upper
88	100		
43	56.6	37.8	56.8
58	87.7	67.4	101.2



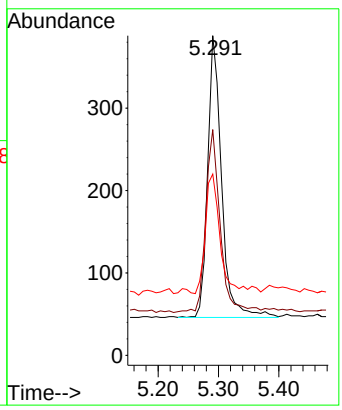


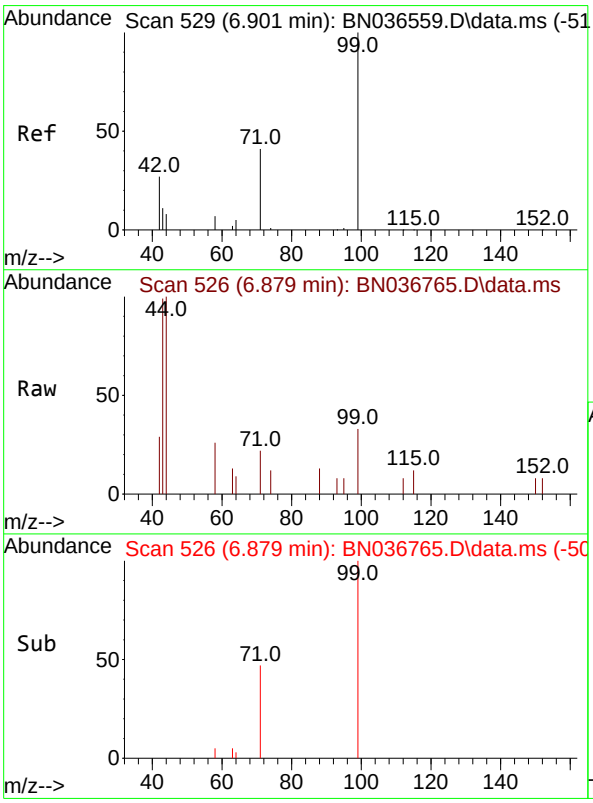
#4
2-Fluorophenol
Concen: 0.213 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Tgt Ion:112 Resp: 548

Ion	Ratio	Lower	Upper
112	100		
64	67.3	53.1	79.7
63	46.4	31.8	47.8

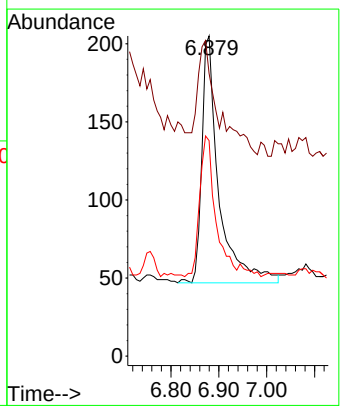


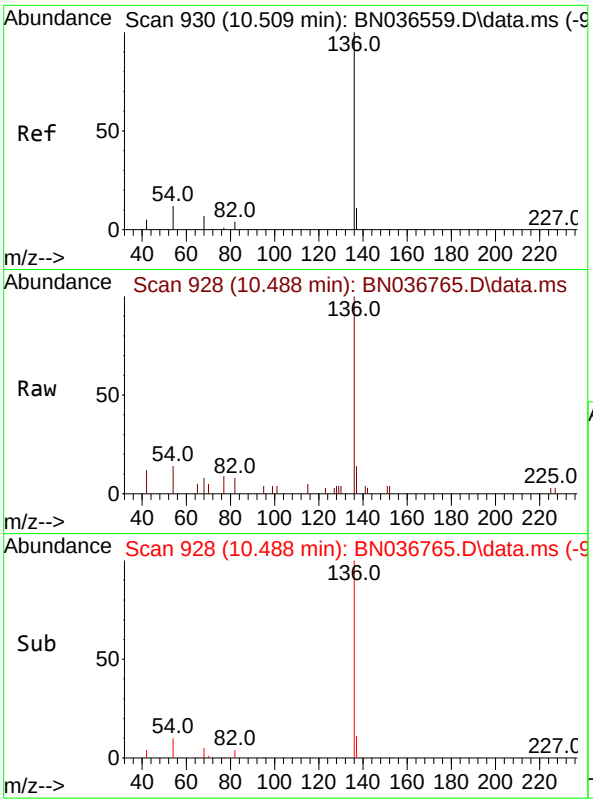


#5
Phenol-d6
Concen: 0.122 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Tgt Ion: 99 Resp: 388

Ion	Ratio	Lower	Upper
99	100		
42	54.9	26.5	39.7#
71	52.8	34.1	51.1#



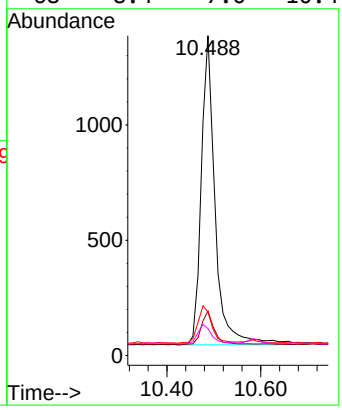


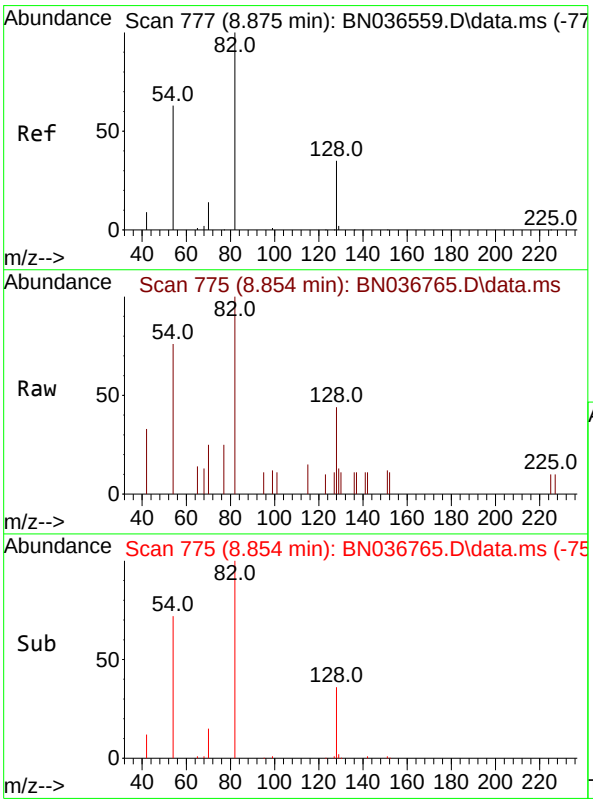
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Tgt Ion:136 Resp: 2727

Ion	Ratio	Lower	Upper
136	100		
137	13.9	10.3	15.5
54	13.6	11.5	17.3
68	8.4	7.0	10.4

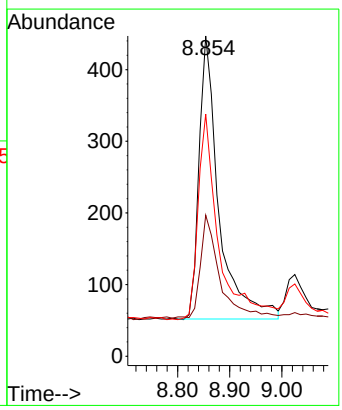


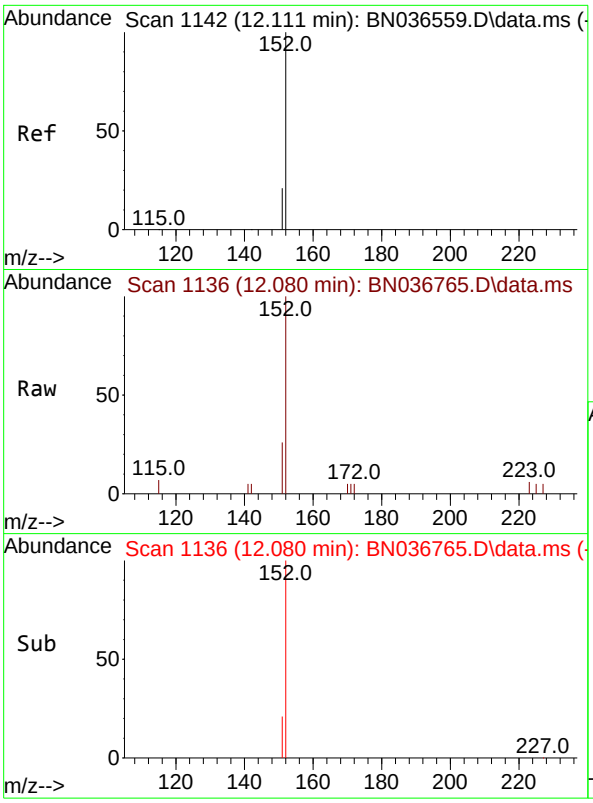


#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Tgt Ion: 82 Resp: 1039

Ion	Ratio	Lower	Upper
82	100		
128	44.1	30.6	45.8
54	75.6	52.2	78.4



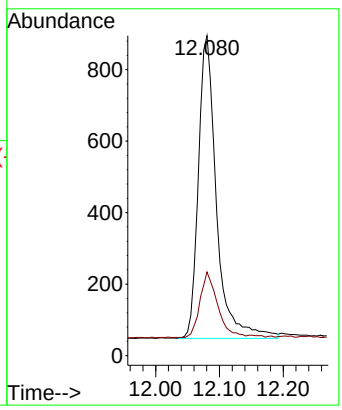


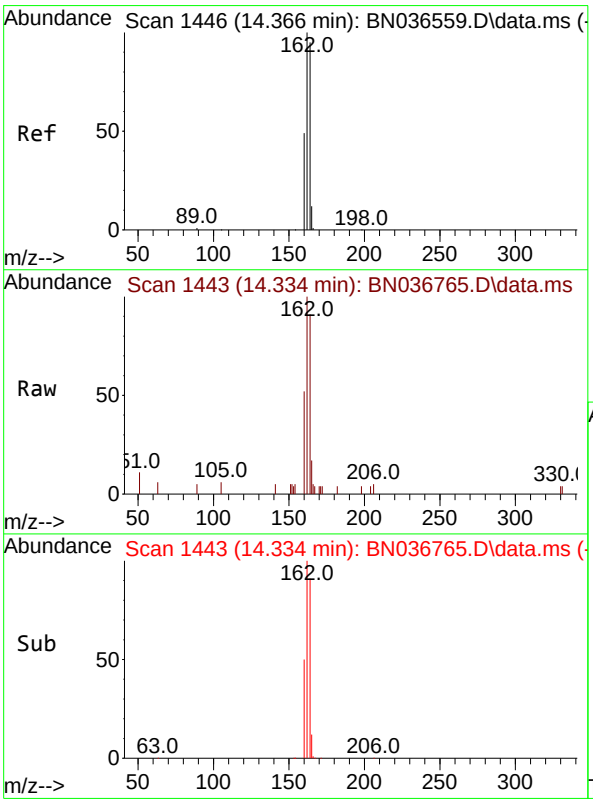
#11
2-Methylnaphthalene-d10
Concen: 0.412 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Tgt Ion:152 Resp: 1673

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

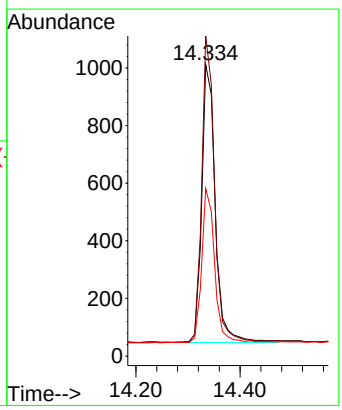


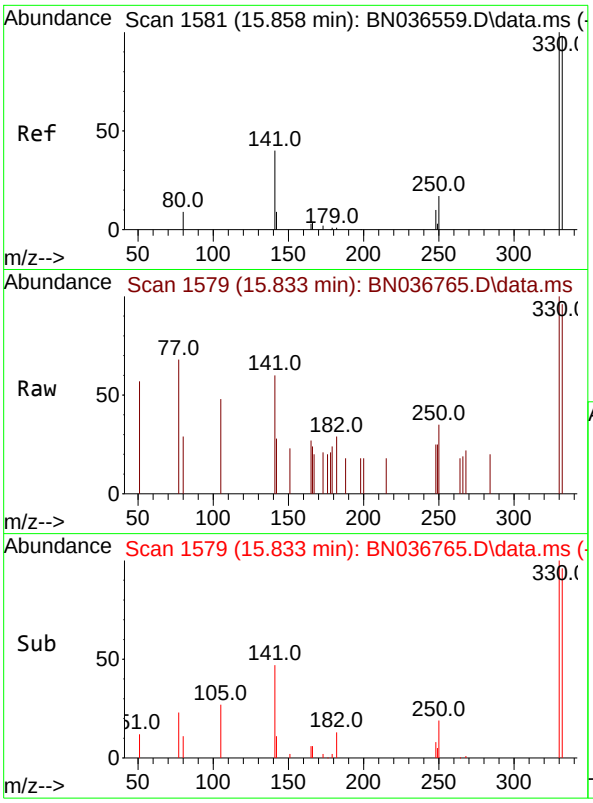


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Tgt Ion:164 Resp: 1743

Ion	Ratio	Lower	Upper
164	100		
162	109.9	84.2	126.2
160	57.6	42.2	63.2



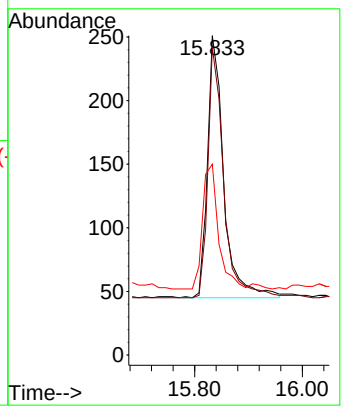


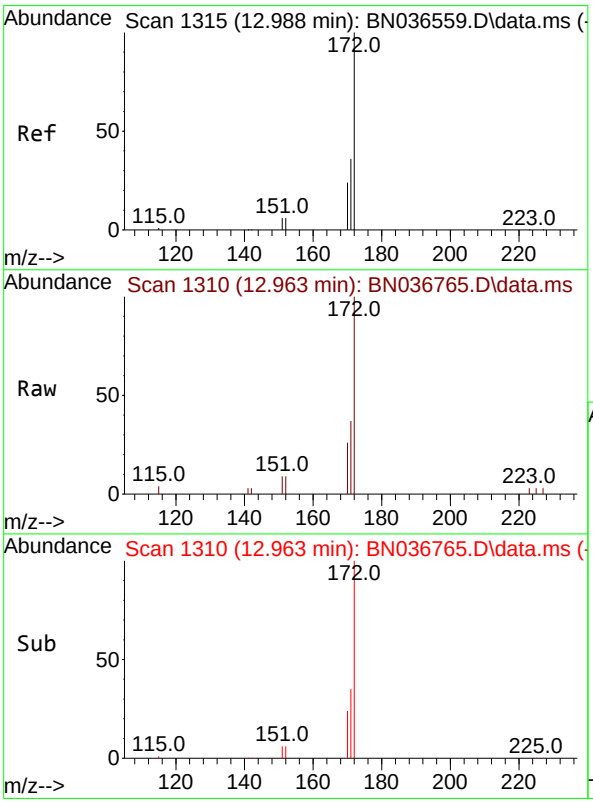
#14
2,4,6-Tribromophenol
Concen: 0.547 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Tgt Ion:330 Resp: 433

Ion	Ratio	Lower	Upper
330	100		
332	92.6	75.2	112.8
141	46.2	43.4	65.2

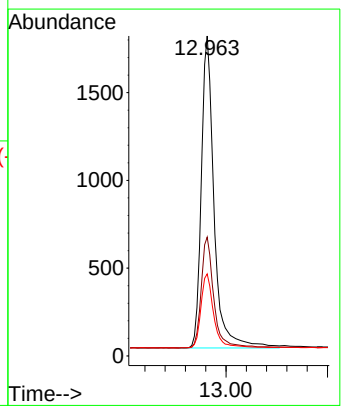


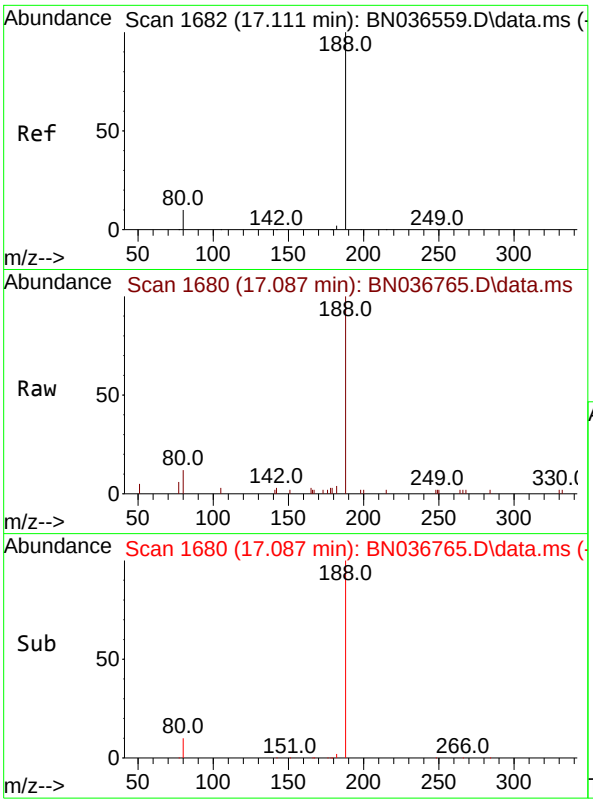


#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Tgt Ion:172 Resp: 4070

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	25.6	20.2	30.4



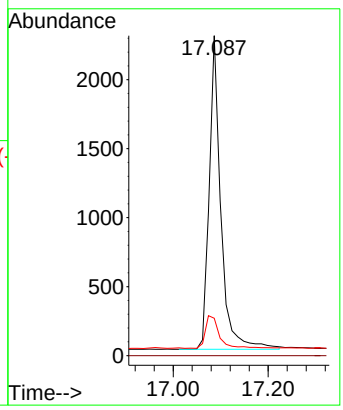


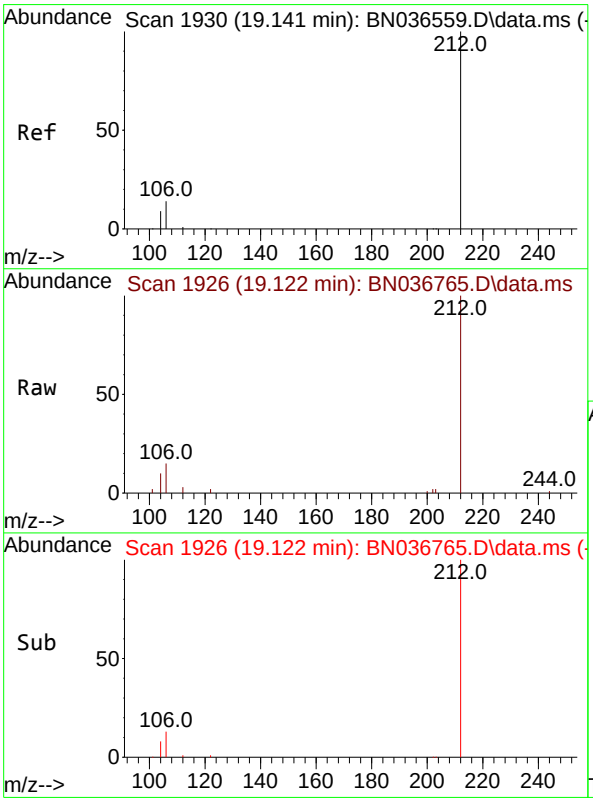
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Tgt Ion:188 Resp: 3887

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

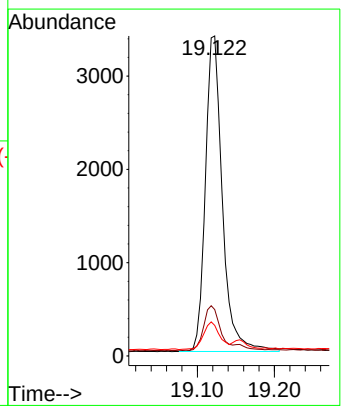


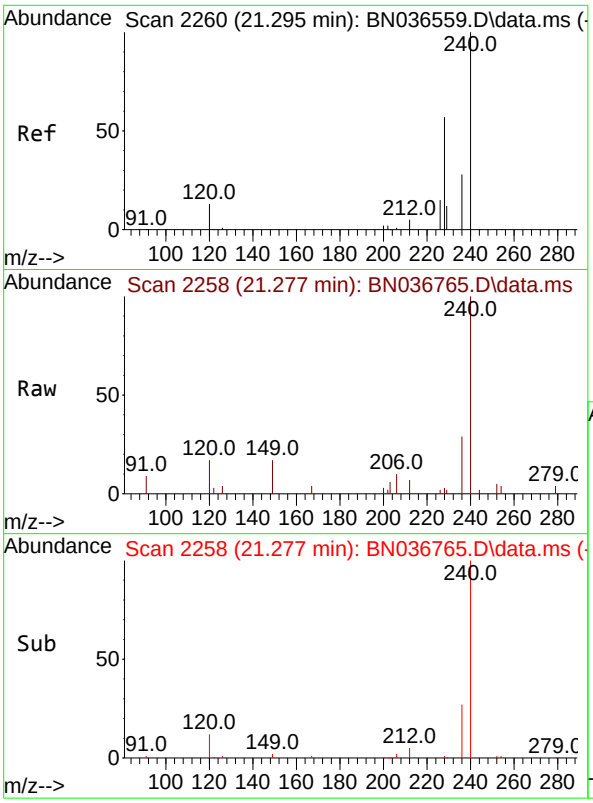


#27
Fluoranthene-d10
Concen: 0.520 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Tgt Ion:212 Resp: 5184

Ion	Ratio	Lower	Upper
212	100		
106	15.3	11.8	17.6
104	8.3	7.3	10.9



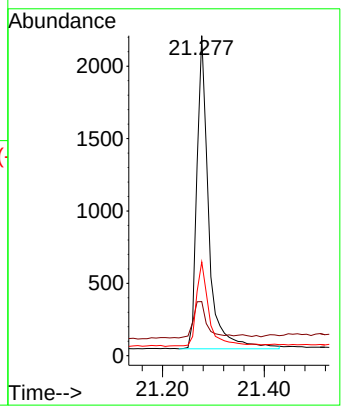


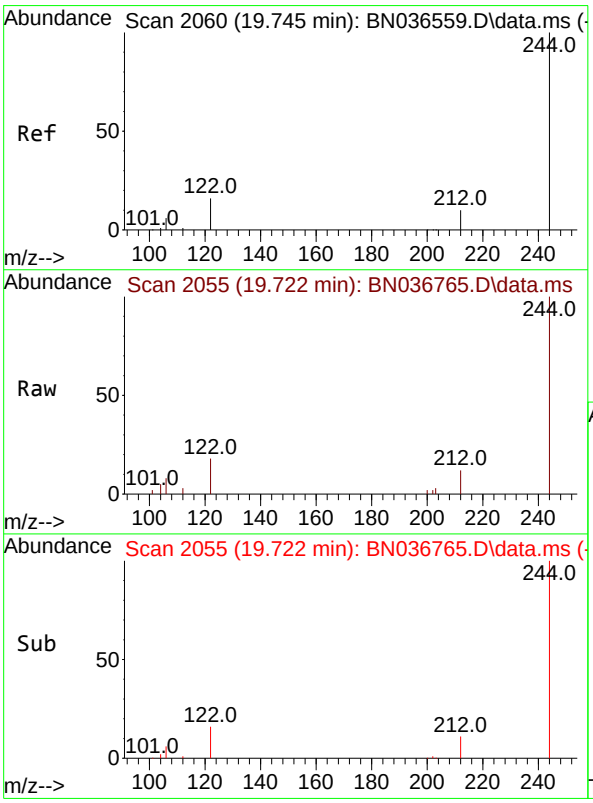
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Tgt Ion:240 Resp: 3482

Ion	Ratio	Lower	Upper
240	100		
120	16.9	14.6	22.0
236	29.3	24.1	36.1

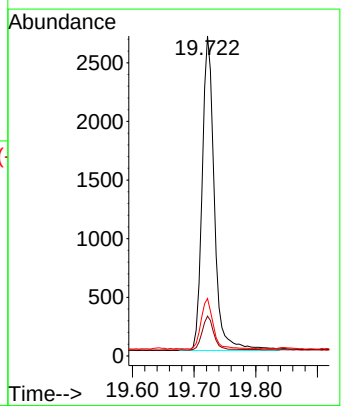


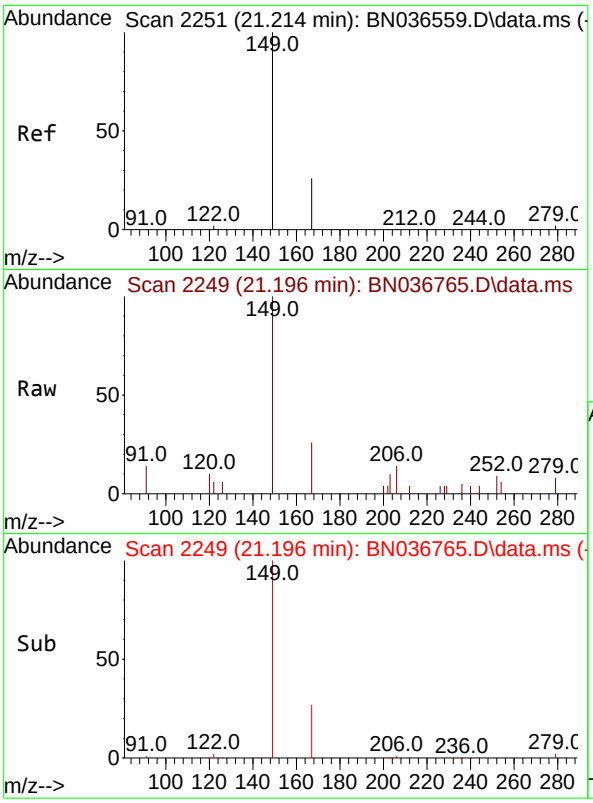


#31
Terphenyl-d14
Concen: 0.442 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Tgt Ion:244 Resp: 3691

Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.6	14.4
122	18.0	13.9	20.9



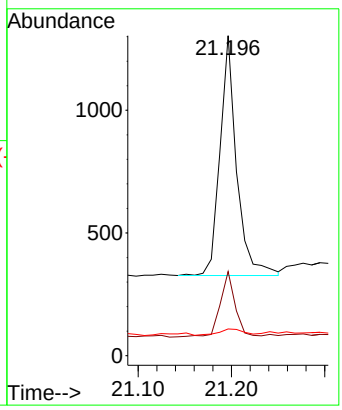


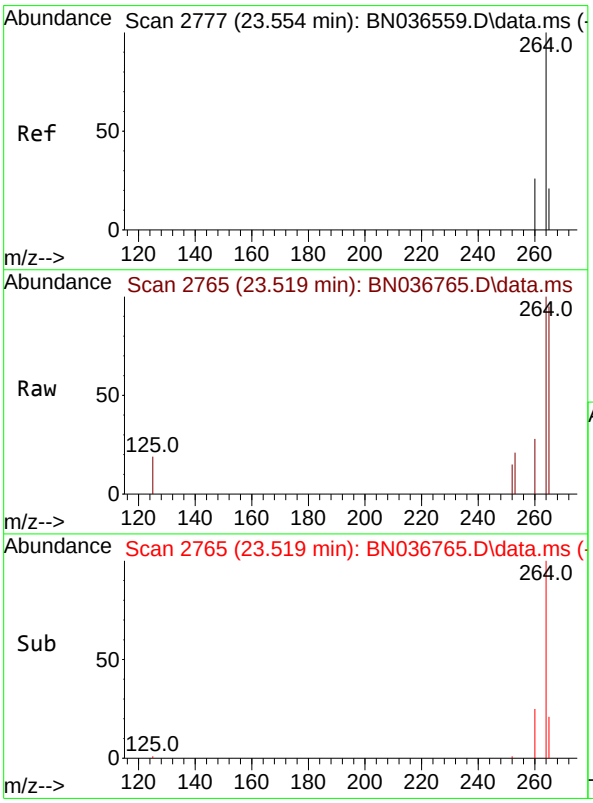
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.140 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318

Tgt Ion:149 Resp: 1205

Ion	Ratio	Lower	Upper
149	100		
167	24.2	20.7	31.1
279	3.9	3.6	5.4

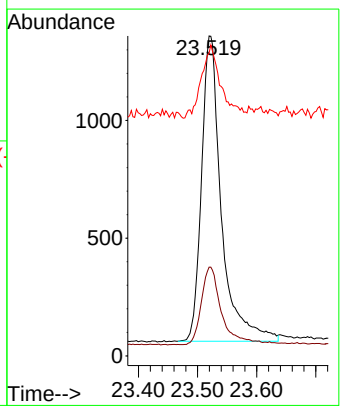




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036765.D
Acq: 28 Mar 2025 08:34

Tgt Ion:264 Resp: 3032

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	94.6	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D2-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-14	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036747.D	1	03/20/25 10:49	03/27/25 21:03	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1500	7.703				
1146-65-2	Naphthalene-d8	3630	10.487				
15067-26-2	Acenaphthene-d10	2260	14.345				
1517-22-2	Phenanthrene-d10	5080	17.086				
1719-03-5	Chrysene-d12	4410	21.277				
1520-96-3	Perylene-d12	3910	23.522				

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\BN032725\
Data File : BN036747.D
Acq On : 27 Mar 2025 21:03
Operator : RC/JU
Sample : Q1608-14
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Quant Time: Mar 28 00:58:24 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

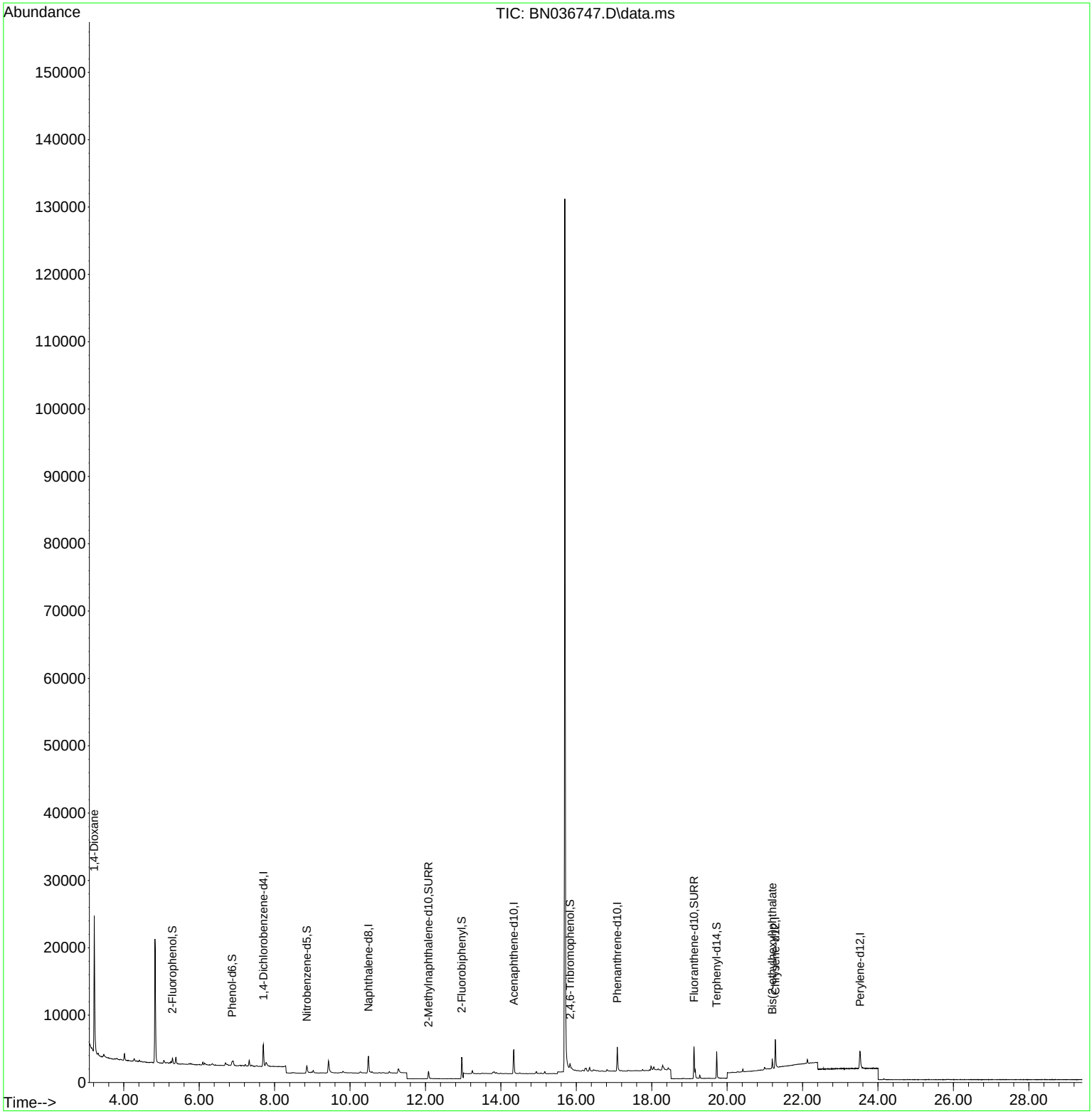
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1503	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3626	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2260	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5080	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4409	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3909	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	604	0.172	ng	-0.02
5) Phenol-d6	6.872	99	464	0.107	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1149	0.291	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1680	0.311	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	459	0.448	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4409	0.335	ng	-0.03
27) Fluoranthene-d10	19.122	212	5663	0.435	ng	-0.02
31) Terphenyl-d14	19.722	244	3962	0.375	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	10775	6.463	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	1295	0.119	ng	99

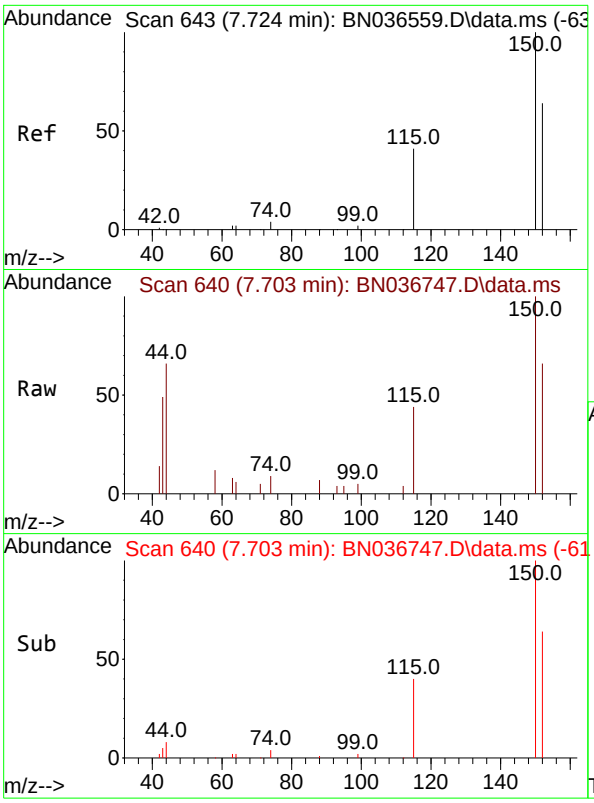
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036747.D
Acq On : 27 Mar 2025 21:03
Operator : RC/JU
Sample : Q1608-14
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Quant Time: Mar 28 00:58:24 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



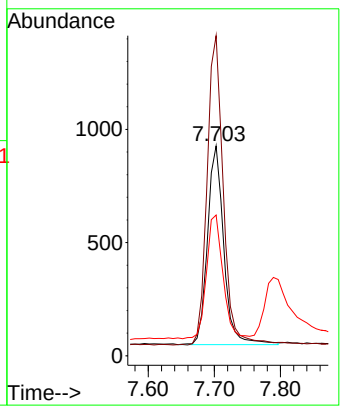


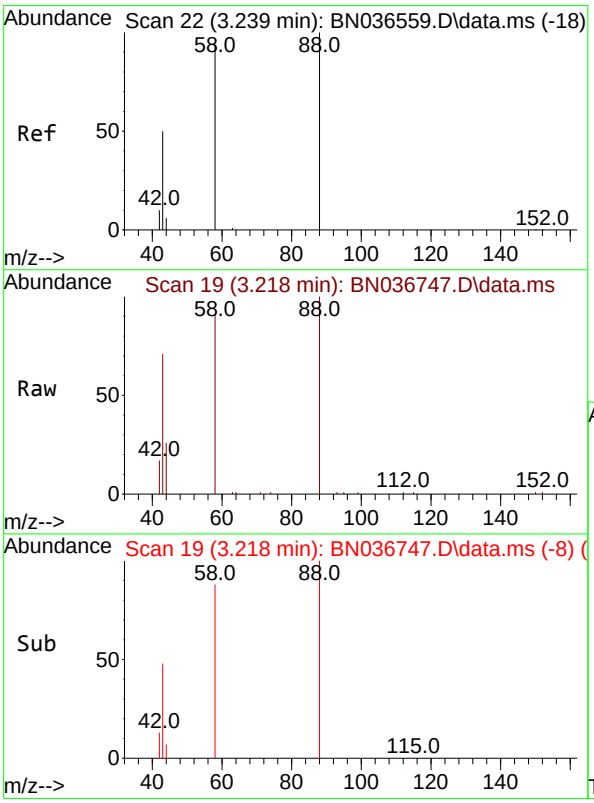
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Tgt Ion:152 Resp: 1503

Ion	Ratio	Lower	Upper
152	100		
150	152.5	123.7	185.5
115	67.1	54.3	81.5

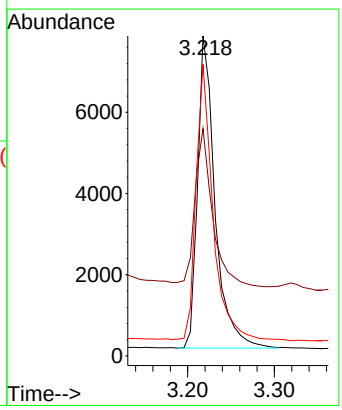


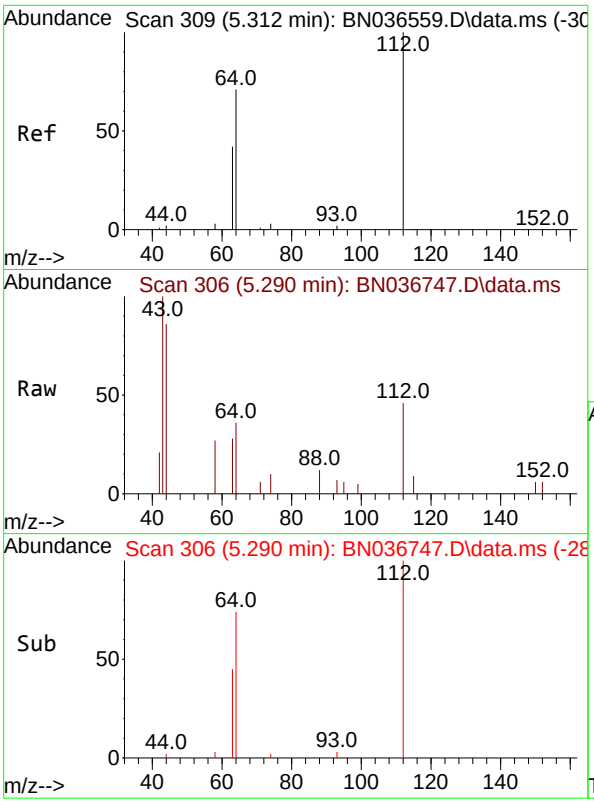


#2
1,4-Dioxane
Concen: 6.463 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Tgt Ion: 88 Resp: 10775

Ion	Ratio	Lower	Upper
88	100		
43	51.2	37.8	56.8
58	84.4	67.4	101.2



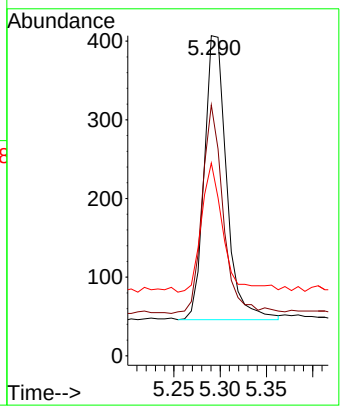


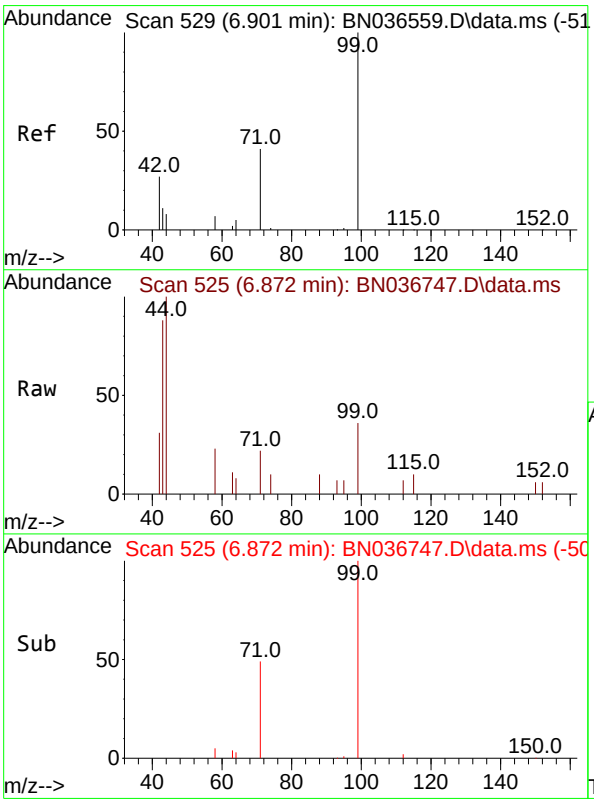
#4
2-Fluorophenol
Concen: 0.172 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Tgt Ion:112 Resp: 604

Ion	Ratio	Lower	Upper
112	100		
64	69.4	53.1	79.7
63	45.2	31.8	47.8

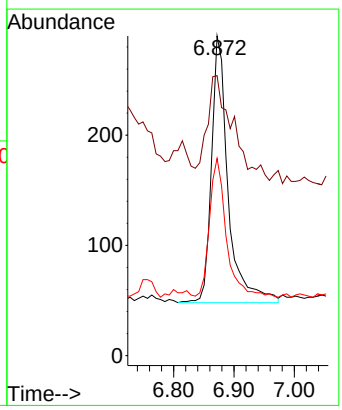


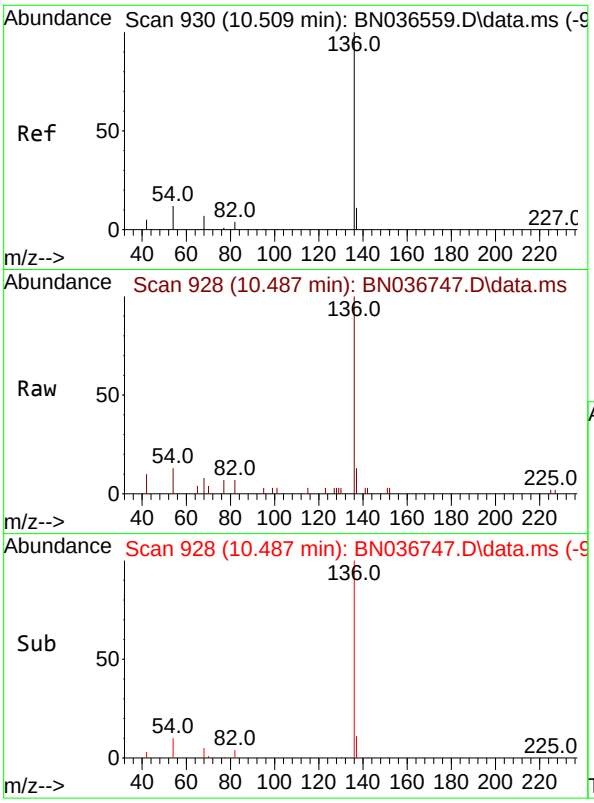


#5
Phenol-d6
Concen: 0.107 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Tgt Ion: 99 Resp: 464

Ion	Ratio	Lower	Upper
99	100		
42	59.7	26.5	39.7#
71	52.6	34.1	51.1#



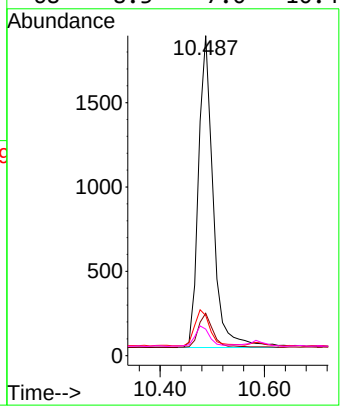


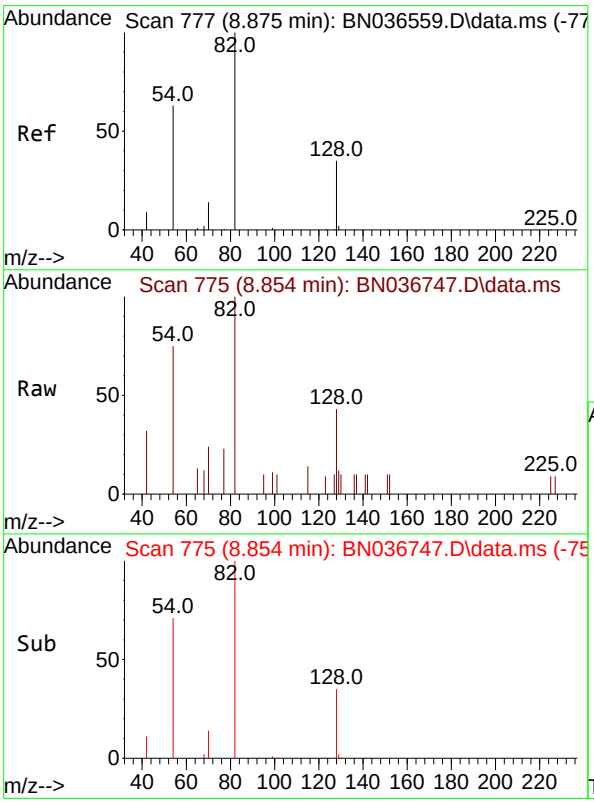
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Tgt Ion:136 Resp: 3626

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	12.5	11.5	17.3
68	8.3	7.0	10.4

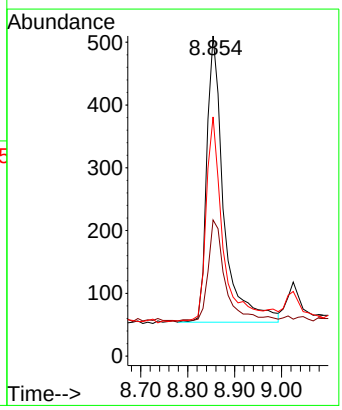


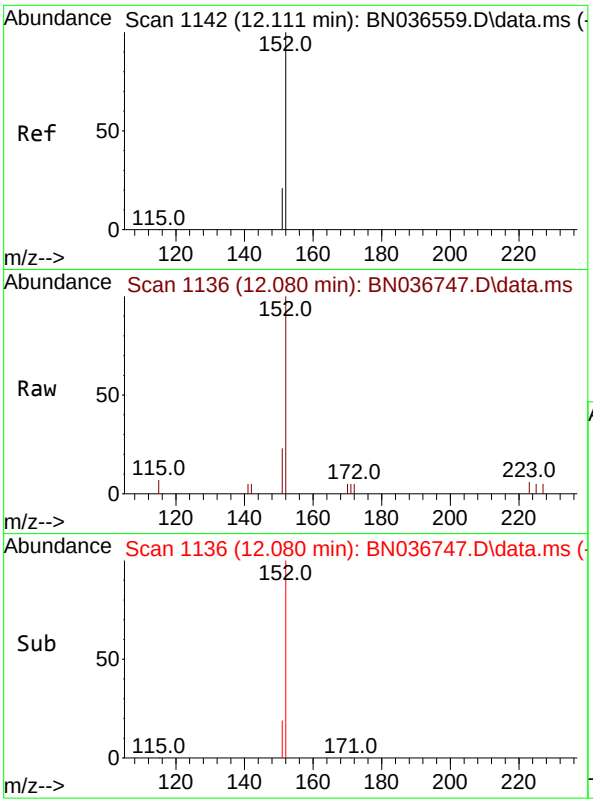


#8
Nitrobenzene-d5
Concen: 0.291 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Tgt Ion: 82 Resp: 1149

Ion	Ratio	Lower	Upper
82	100		
128	42.5	30.6	45.8
54	74.7	52.2	78.4



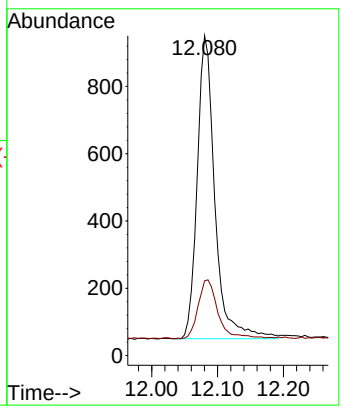


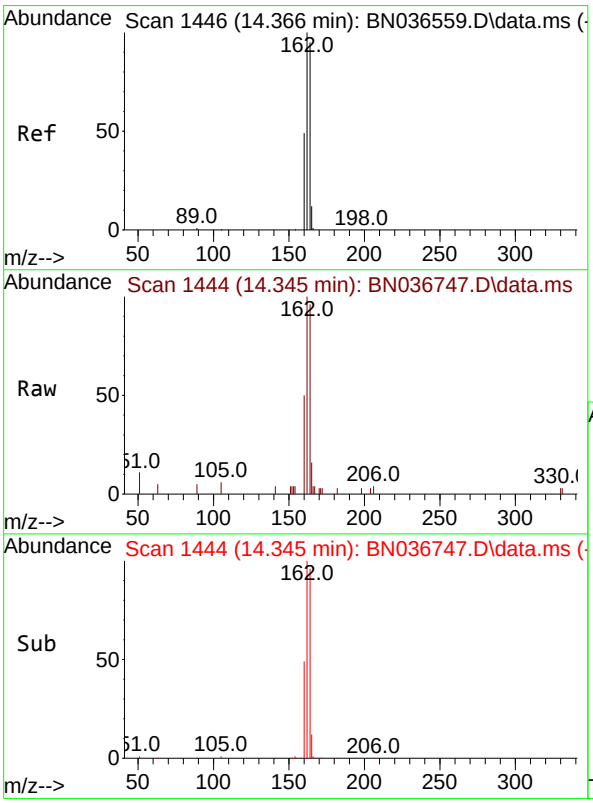
#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Tgt Ion:152 Resp: 1680

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

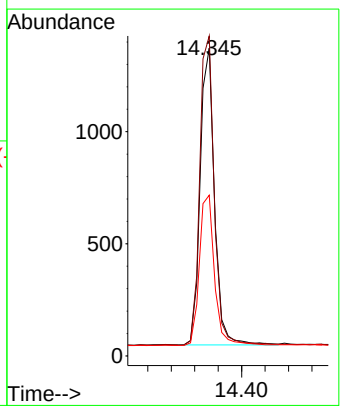


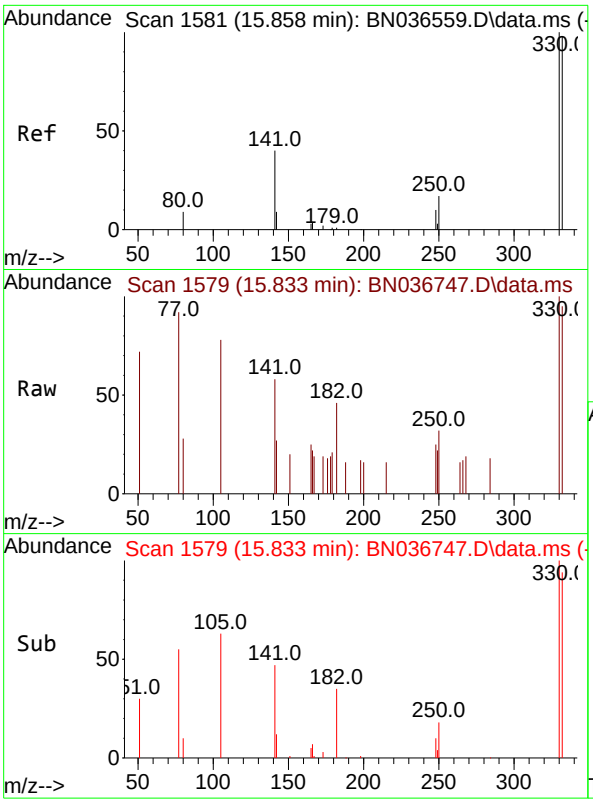


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Tgt Ion:164 Resp: 2260

Ion	Ratio	Lower	Upper
164	100		
162	103.9	84.2	126.2
160	52.2	42.2	63.2



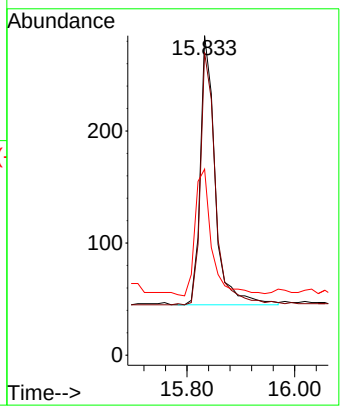


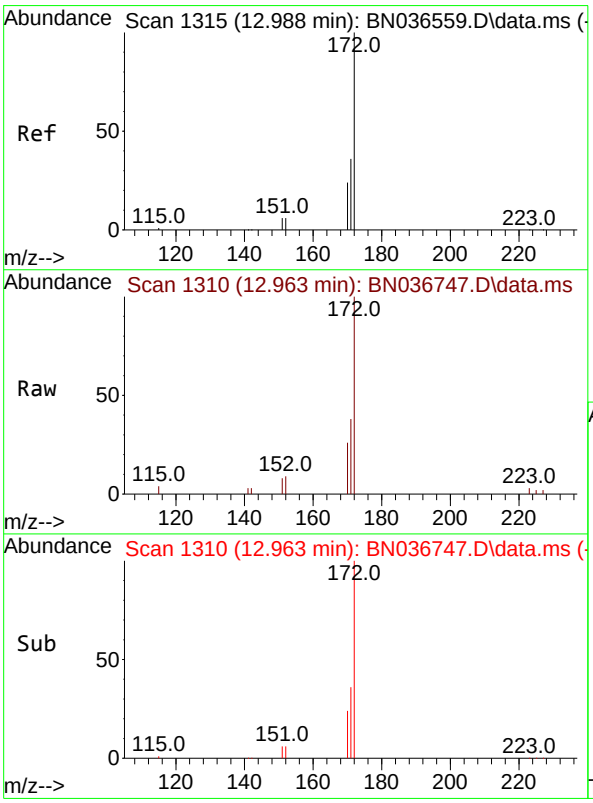
#14
2,4,6-Tribromophenol
Concen: 0.448 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Tgt Ion:330 Resp: 459

Ion	Ratio	Lower	Upper
330	100		
332	95.2	75.2	112.8
141	51.4	43.4	65.2

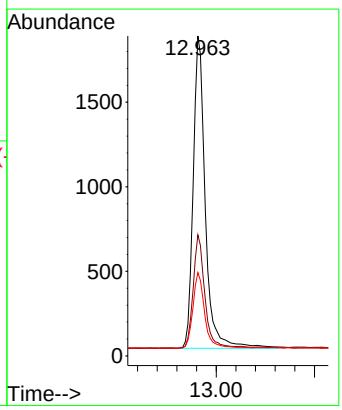


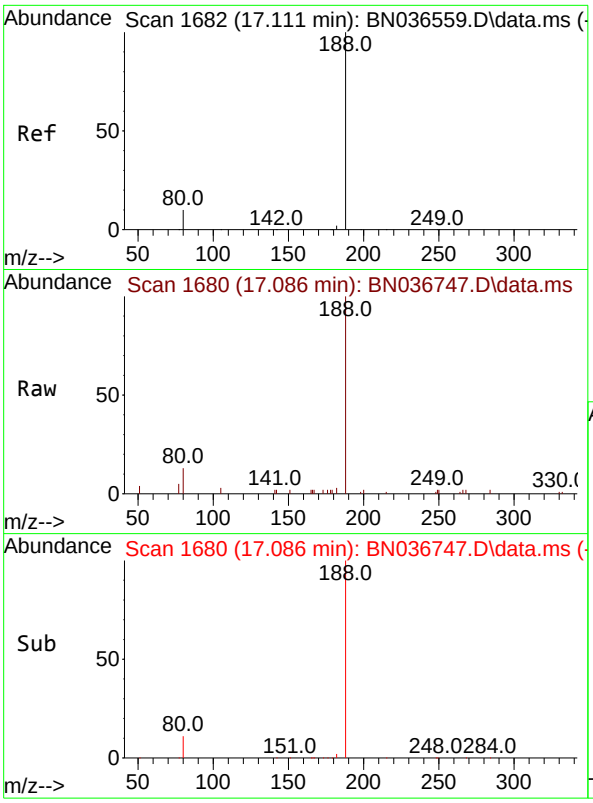


#15
2-Fluorobiphenyl
Concen: 0.335 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Tgt Ion:172 Resp: 4409

Ion	Ratio	Lower	Upper
172	100		
171	37.8	29.5	44.3
170	26.1	20.2	30.4



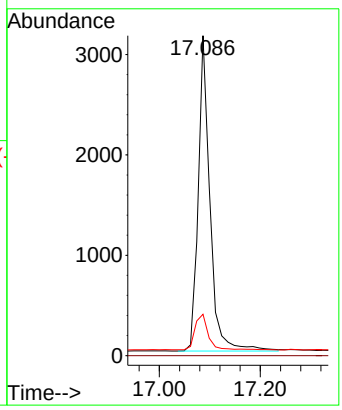


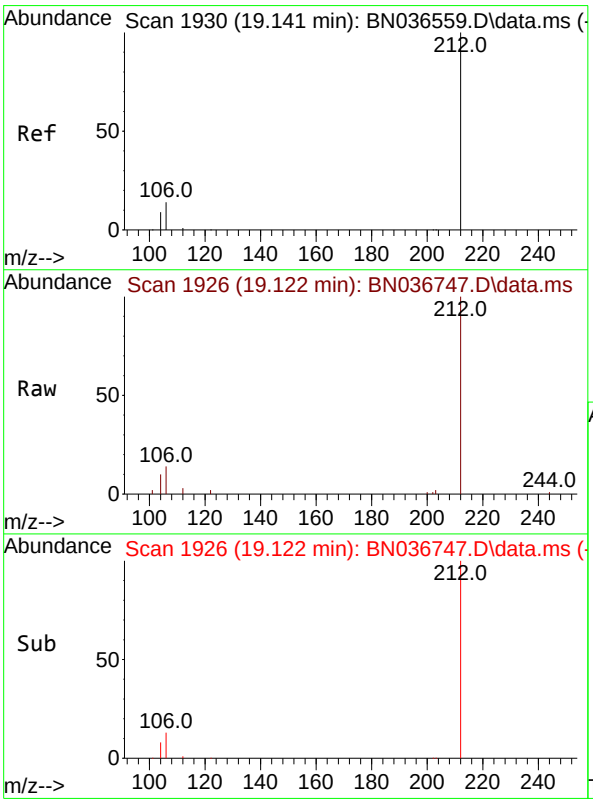
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Tgt Ion:188 Resp: 5080

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.9	8.8	13.2

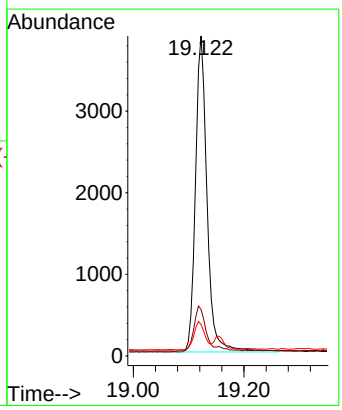


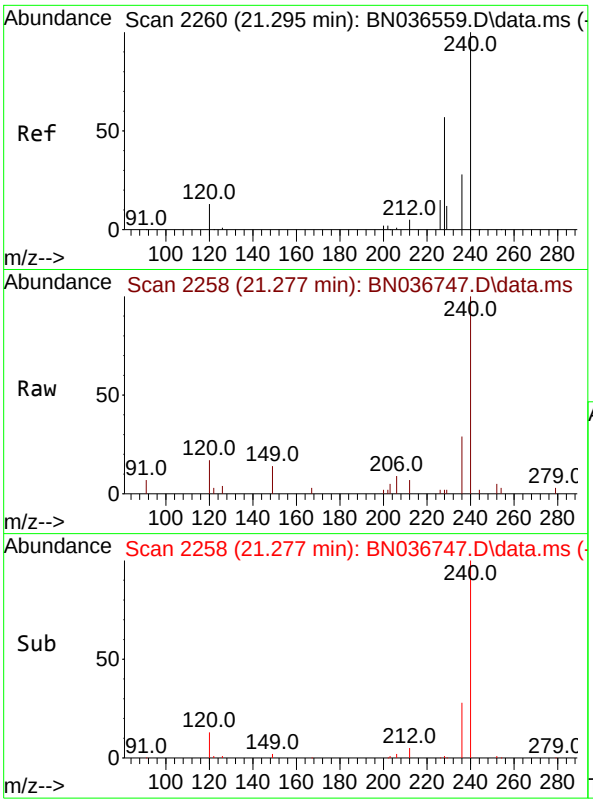


#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.019 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Tgt Ion:212 Resp: 5663

Ion	Ratio	Lower	Upper
212	100		
106	15.3	11.8	17.6
104	8.6	7.3	10.9



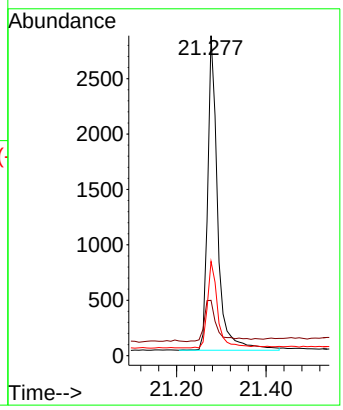


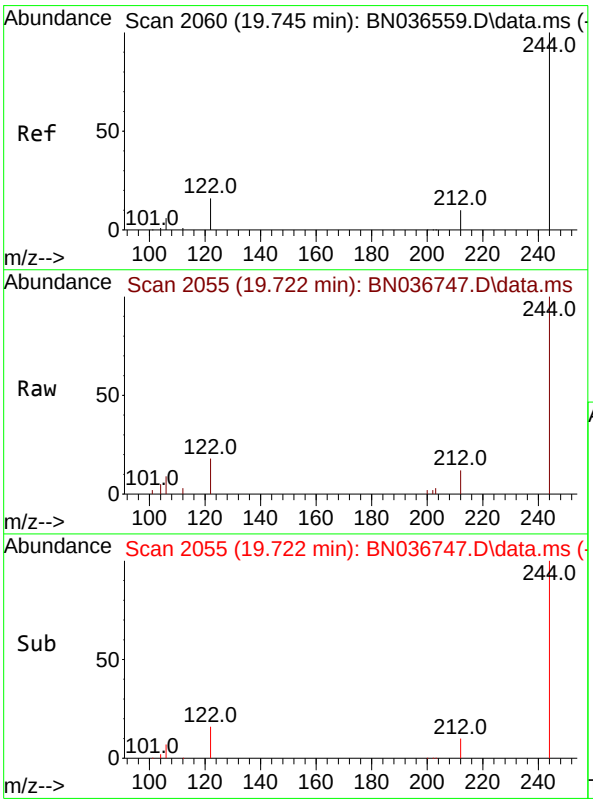
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Tgt Ion:240 Resp: 4409

Ion	Ratio	Lower	Upper
240	100		
120	17.3	14.6	22.0
236	29.5	24.1	36.1

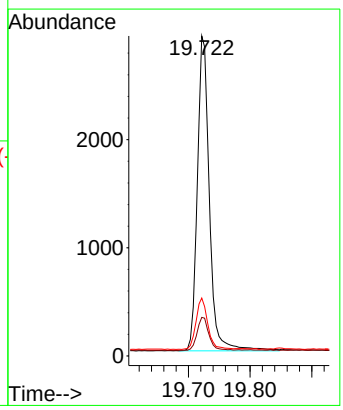


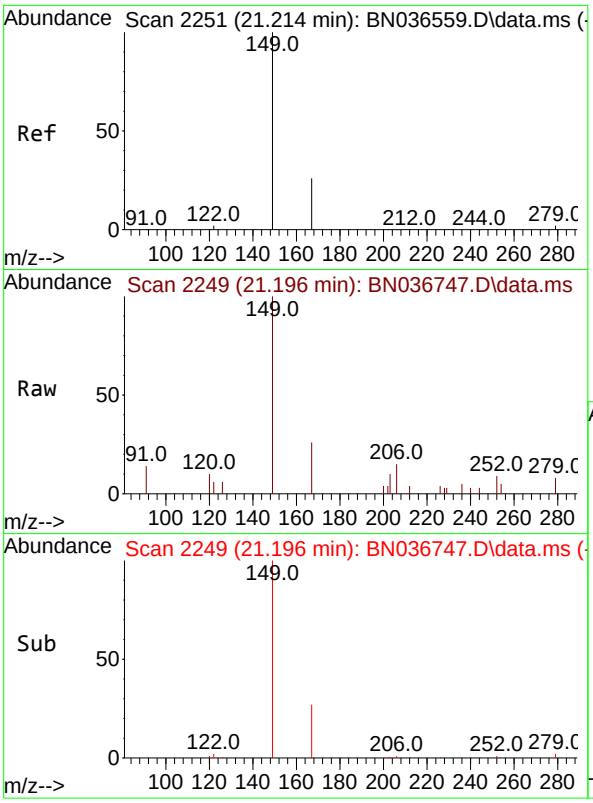


#31
Terphenyl-d14
Concen: 0.375 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Tgt Ion:244 Resp: 3962

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	18.1	13.9	20.9



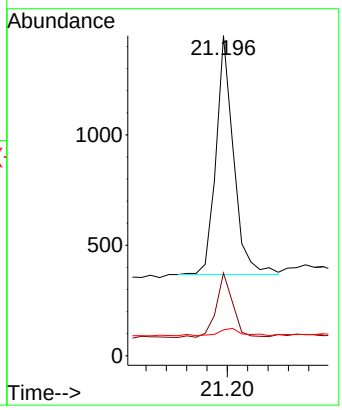


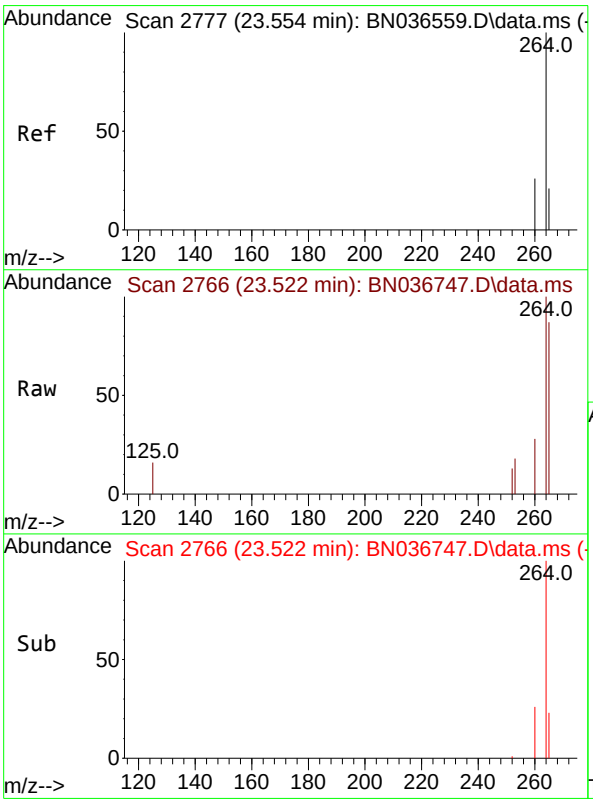
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.119 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318

Tgt Ion:149 Resp: 1295

Ion	Ratio	Lower	Upper
149	100		
167	25.6	20.7	31.1
279	3.6	3.6	5.4

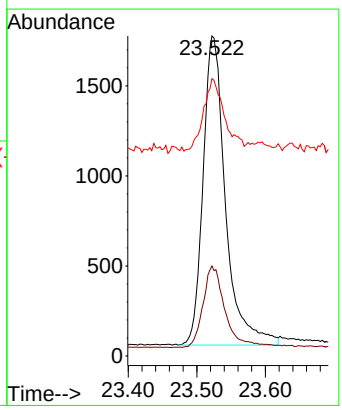




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2766
Delta R.T. -0.032 min
Lab File: BN036747.D
Acq: 27 Mar 2025 21:03

Tgt Ion:264 Resp: 3909

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.6	33.8
265	86.7	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D2-20250318DL	SDG No.:	Q1608
Lab Sample ID:	Q1608-14DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036776.D	2	03/20/25 10:49	03/28/25 17:02	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.70	D	0.14	0.42	0.42	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		71%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1410	7.696				
1146-65-2	Naphthalene-d8	3420	10.487				
15067-26-2	Acenaphthene-d10	2410	14.334				
1517-22-2	Phenanthrene-d10	5430	17.086				
1719-03-5	Chrysene-d12	4280	21.277				
1520-96-3	Perylene-d12	3740	23.519				

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\BN032825\
Data File : BN036776.D
Acq On : 28 Mar 2025 17:02
Operator : RC/JU
Sample : Q1608-14DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Quant Time: Mar 28 18:22:55 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

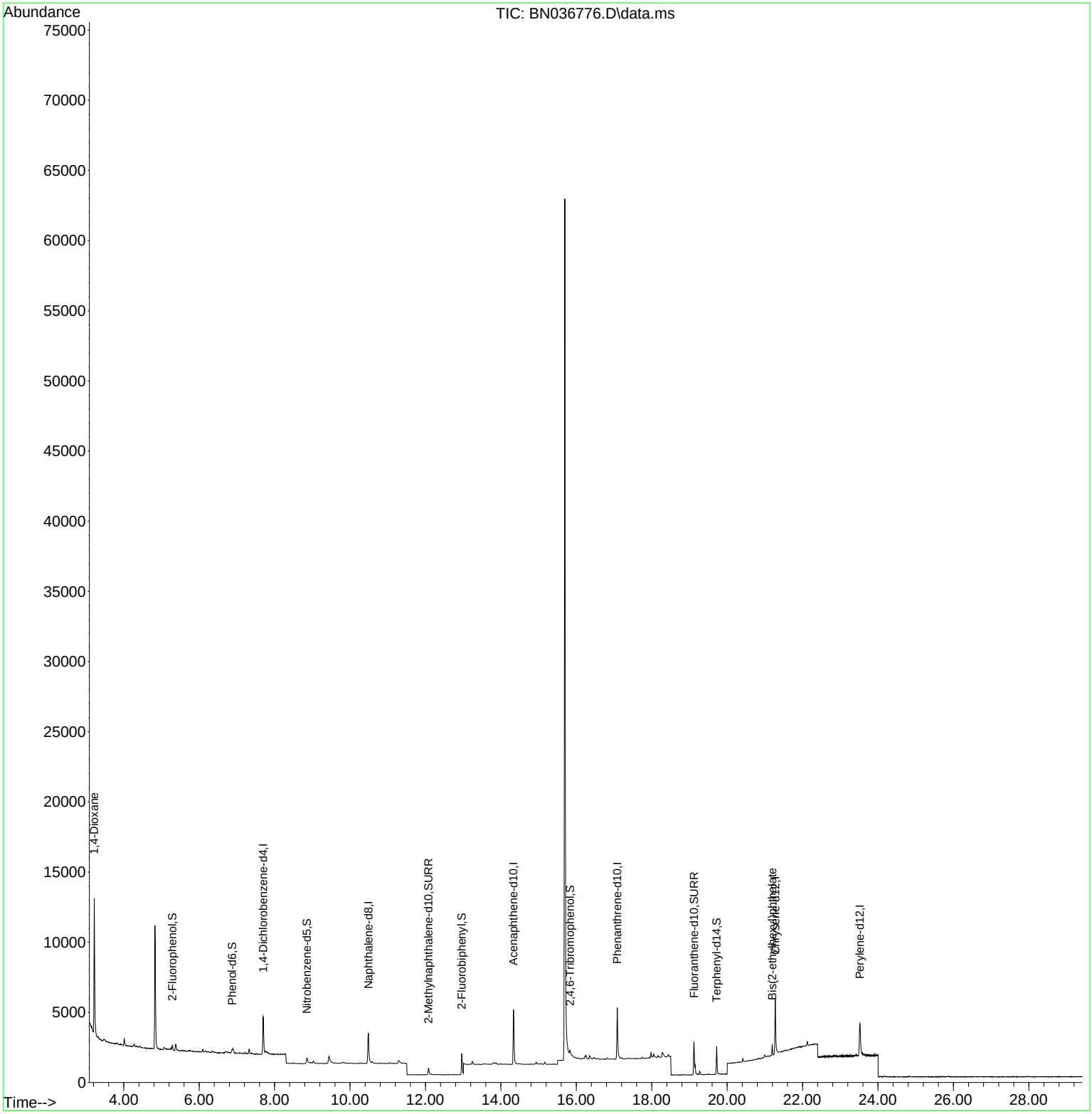
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1407	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3418	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2412	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5434	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4284	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3735	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	281	0.086	ng	-0.02
5) Phenol-d6	6.872	99	214	0.053	ng	-0.03
8) Nitrobenzene-d5	8.854	82	518	0.139	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	826	0.162	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	238	0.217	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	1986	0.142	ng	-0.03
27) Fluoranthene-d10	19.122	212	2855	0.205	ng	-0.02
31) Terphenyl-d14	19.722	244	2030	0.198	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	5017	3.214	ng	93
34) Bis(2-ethylhexyl)phtha...	21.196	149	798	0.075	ng	99

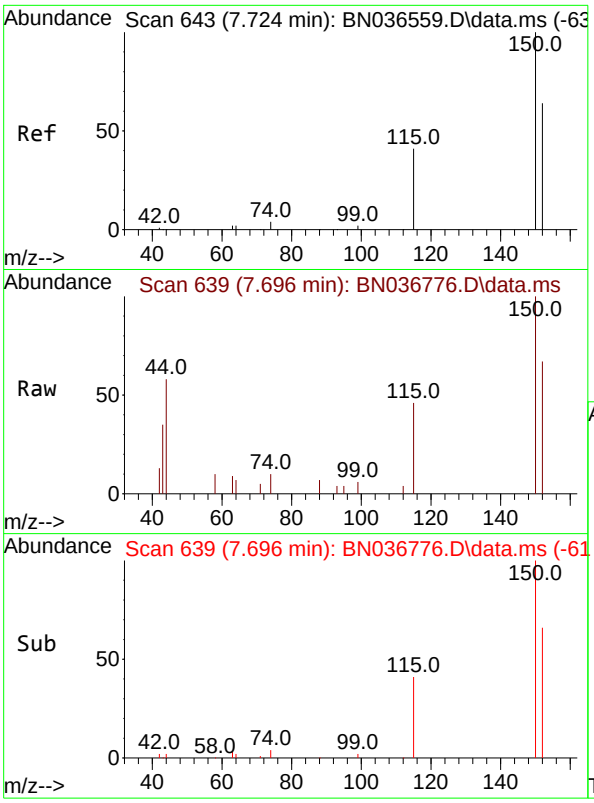
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036776.D
Acq On : 28 Mar 2025 17:02
Operator : RC/JU
Sample : Q1608-14DL 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Quant Time: Mar 28 18:22:55 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



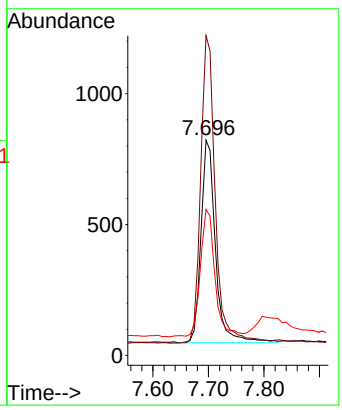


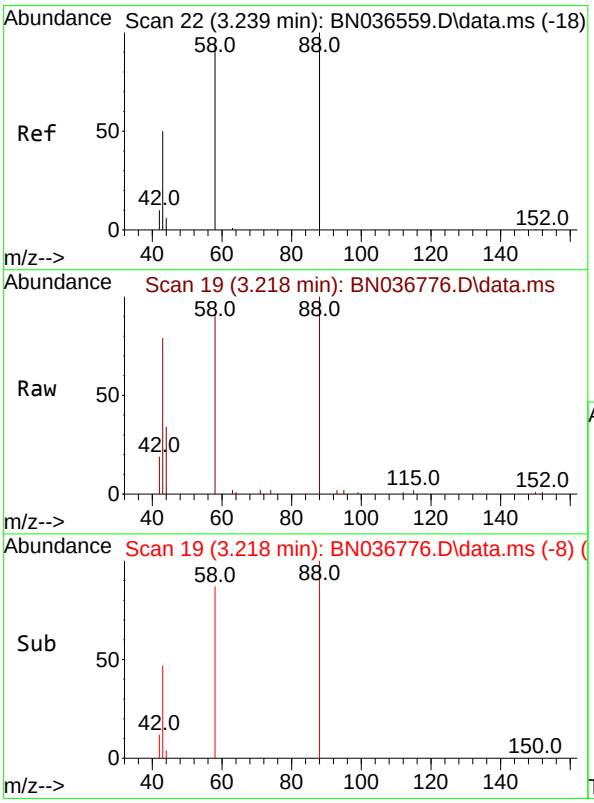
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Tgt Ion:152 Resp: 1407

Ion	Ratio	Lower	Upper
152	100		
150	148.5	123.7	185.5
115	67.9	54.3	81.5

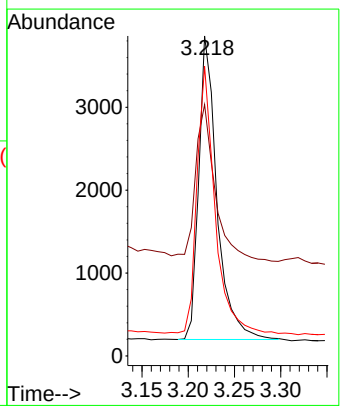


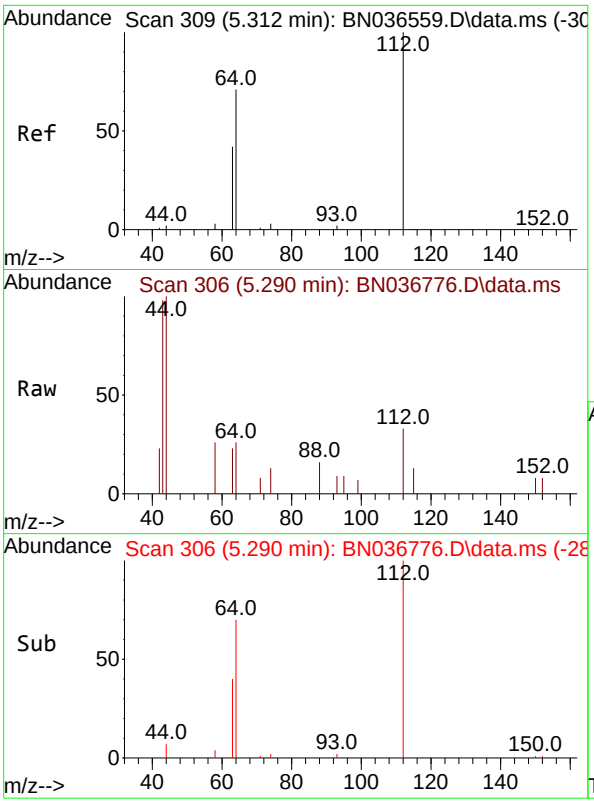


#2
1,4-Dioxane
Concen: 3.214 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Tgt Ion: 88 Resp: 5017

Ion	Ratio	Lower	Upper
88	100		
43	56.5	37.8	56.8
58	87.0	67.4	101.2



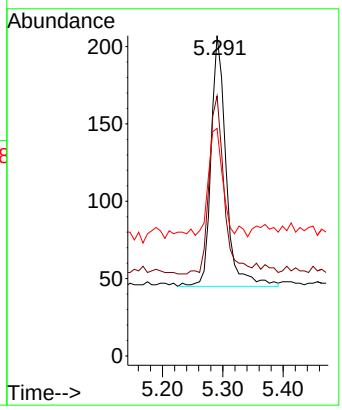


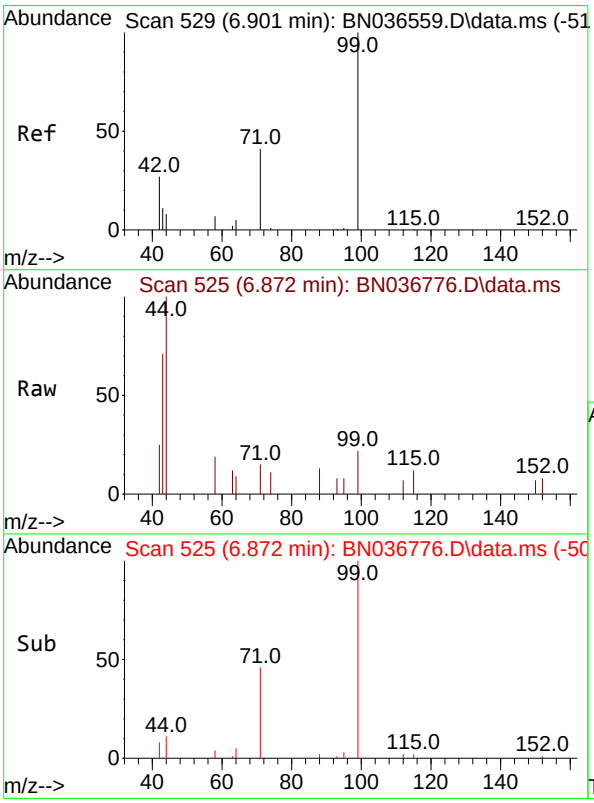
#4
2-Fluorophenol
Concen: 0.086 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Tgt Ion:112 Resp: 281

Ion	Ratio	Lower	Upper
112	100		
64	70.5	53.1	79.7
63	40.6	31.8	47.8

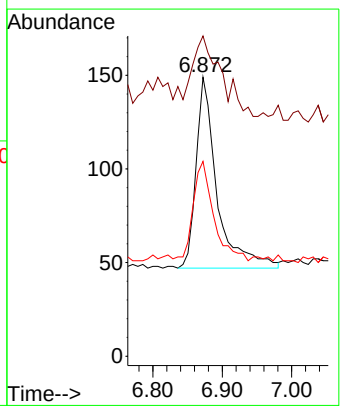


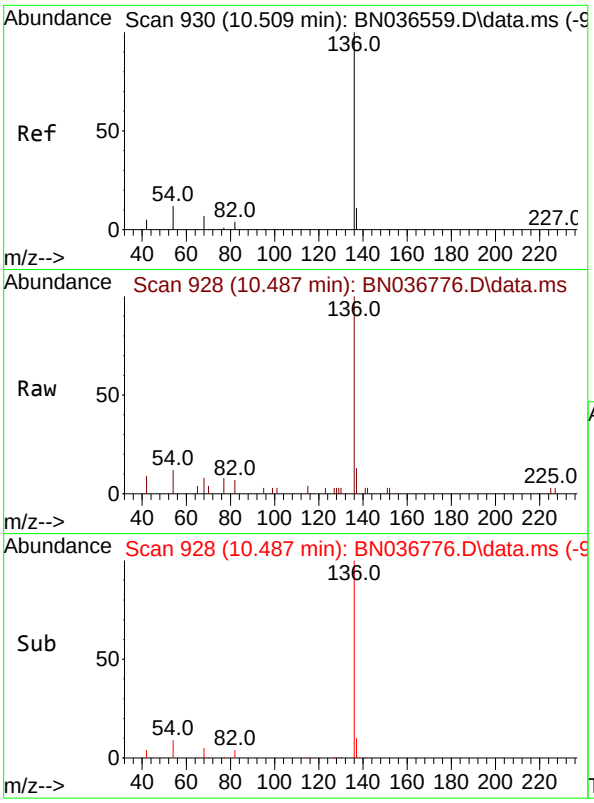


#5
Phenol-d6
Concen: 0.053 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Tgt Ion: 99 Resp: 214

Ion	Ratio	Lower	Upper
99	100		
42	57.9	26.5	39.7#
71	50.5	34.1	51.1



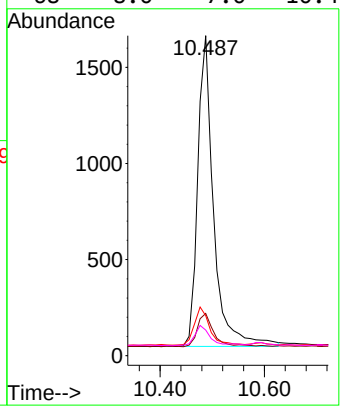


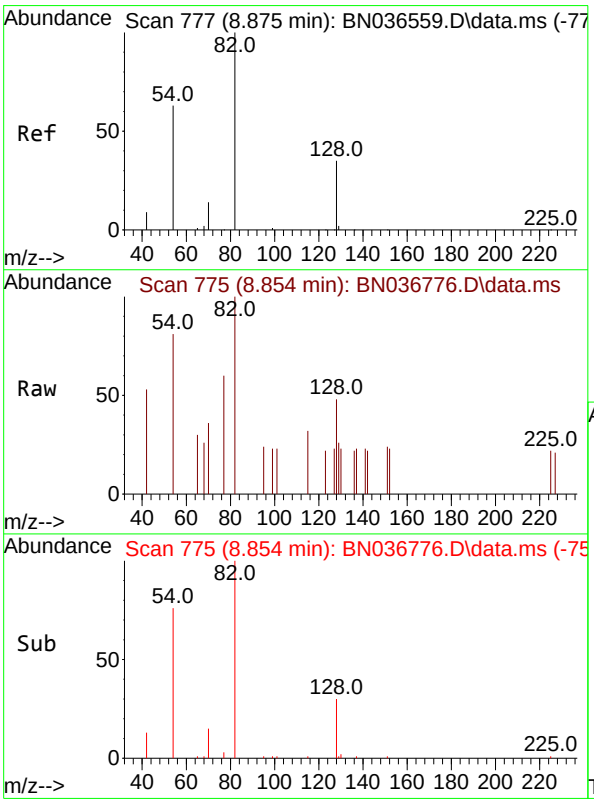
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Tgt Ion:136 Resp: 3418

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	12.5	11.5	17.3
68	8.0	7.0	10.4

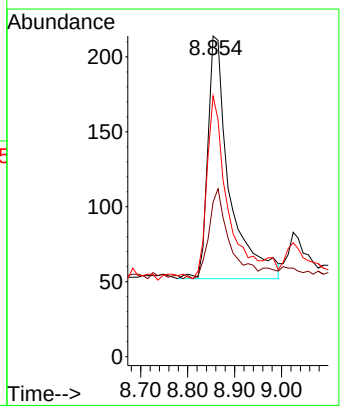


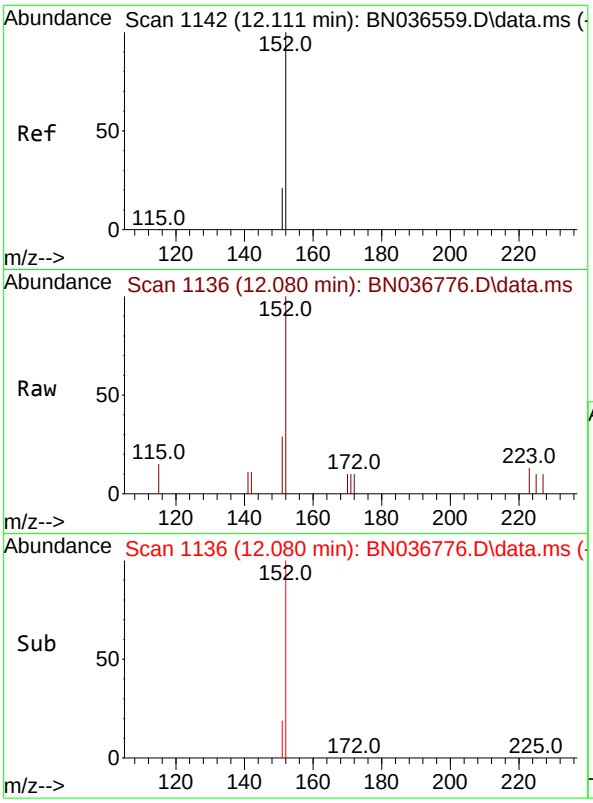


#8
Nitrobenzene-d5
Concen: 0.139 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Tgt Ion: 82 Resp: 518

Ion	Ratio	Lower	Upper
82	100		
128	48.1	30.6	45.8#
54	81.3	52.2	78.4#



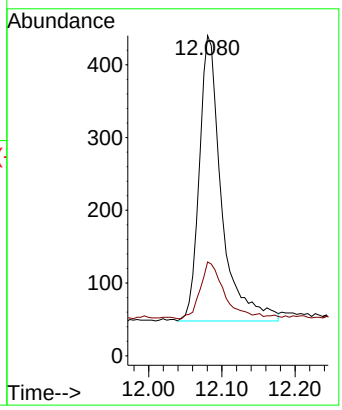


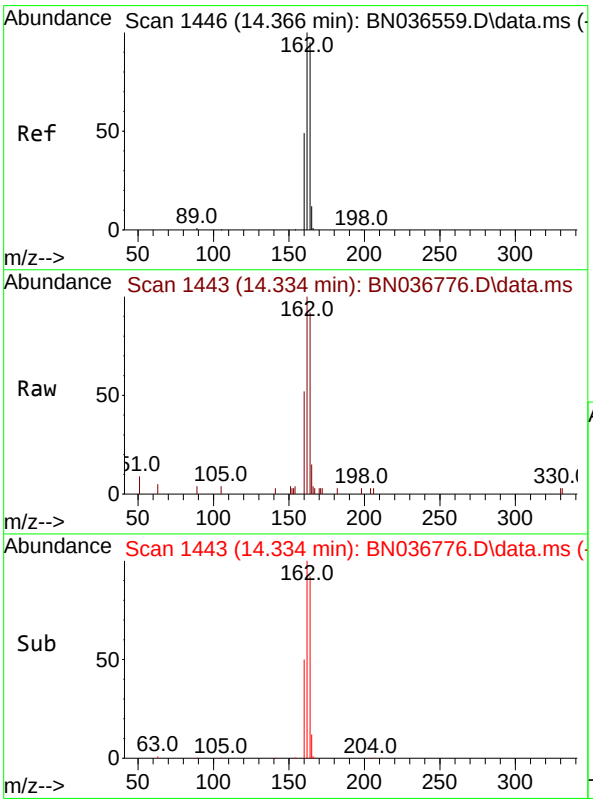
#11
2-Methylnaphthalene-d10
Concen: 0.162 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Tgt Ion:152 Resp: 826

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

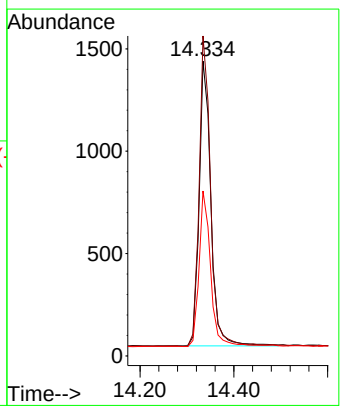


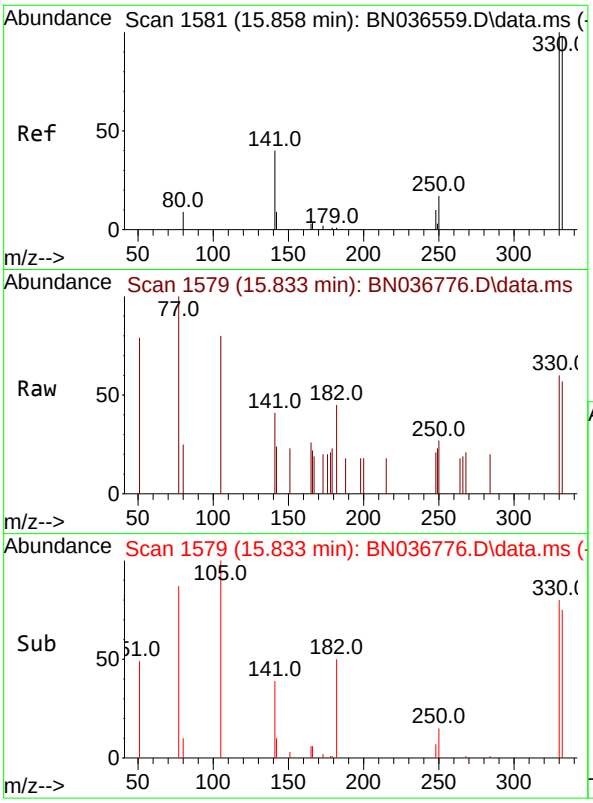


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Tgt Ion:164 Resp: 2412

Ion	Ratio	Lower	Upper
164	100		
162	108.5	84.2	126.2
160	56.0	42.2	63.2



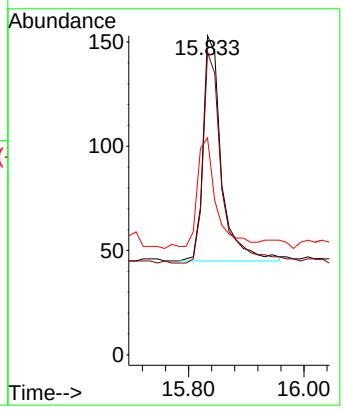


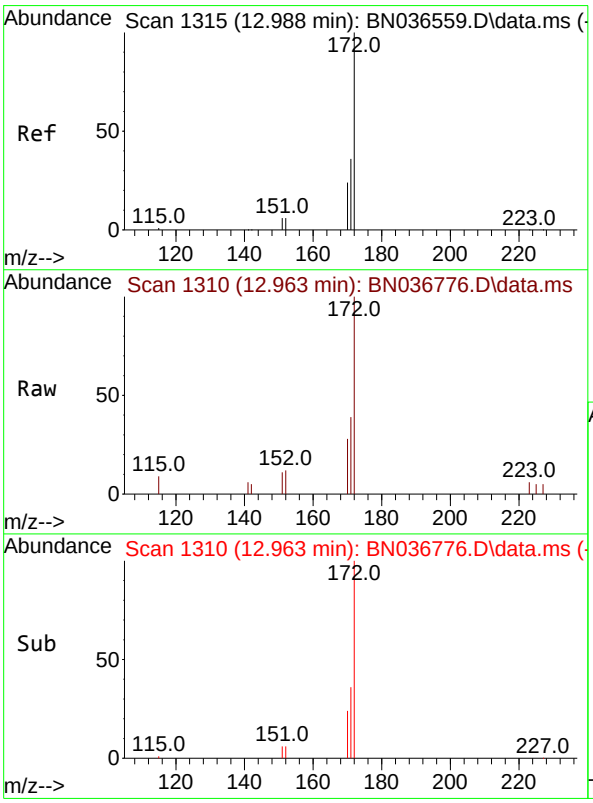
#14
2,4,6-Tribromophenol
Concen: 0.217 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Tgt Ion:330 Resp: 238

Ion	Ratio	Lower	Upper
330	100		
332	96.6	75.2	112.8
141	53.4	43.4	65.2

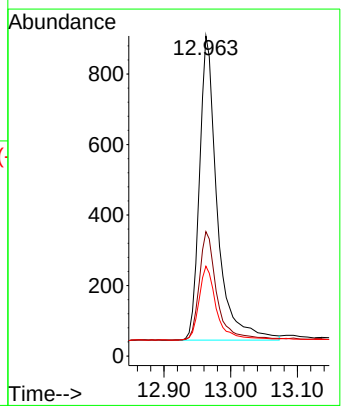


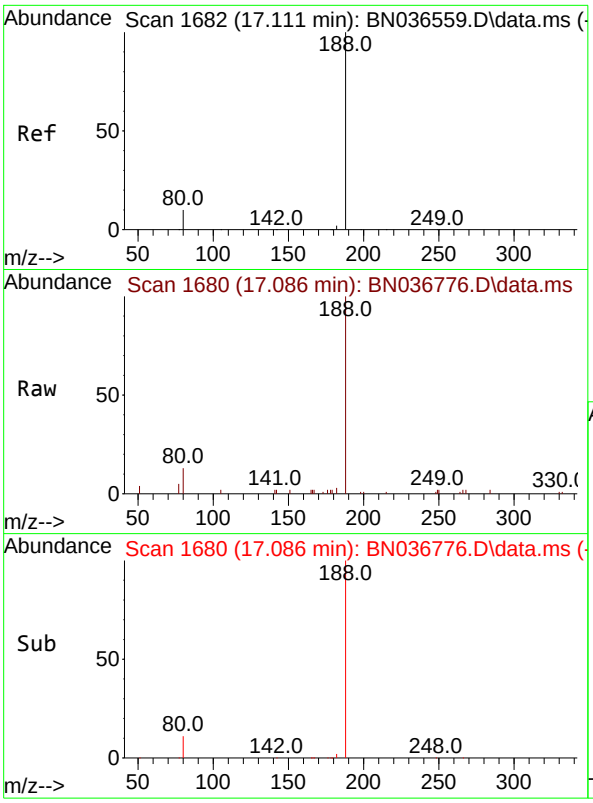


#15
2-Fluorobiphenyl
Concen: 0.142 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Tgt Ion:172 Resp: 1986

Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.1	20.2	30.4



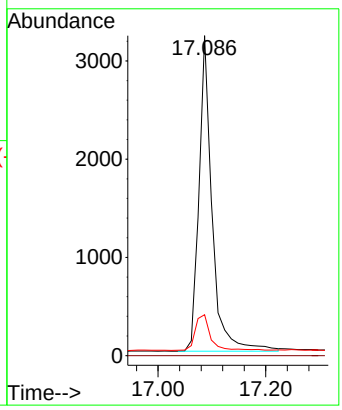


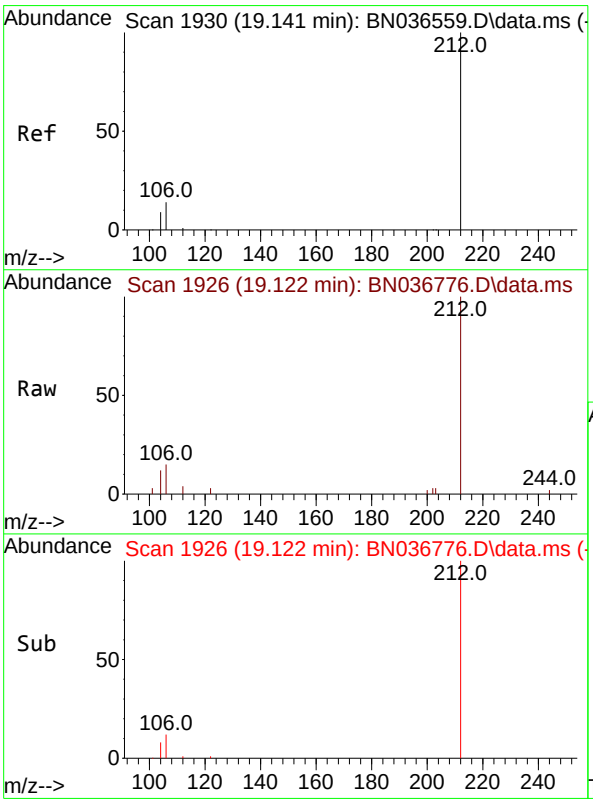
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Tgt Ion:188 Resp: 5434

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.8	8.8	13.2

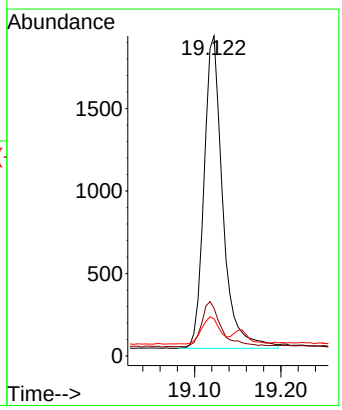


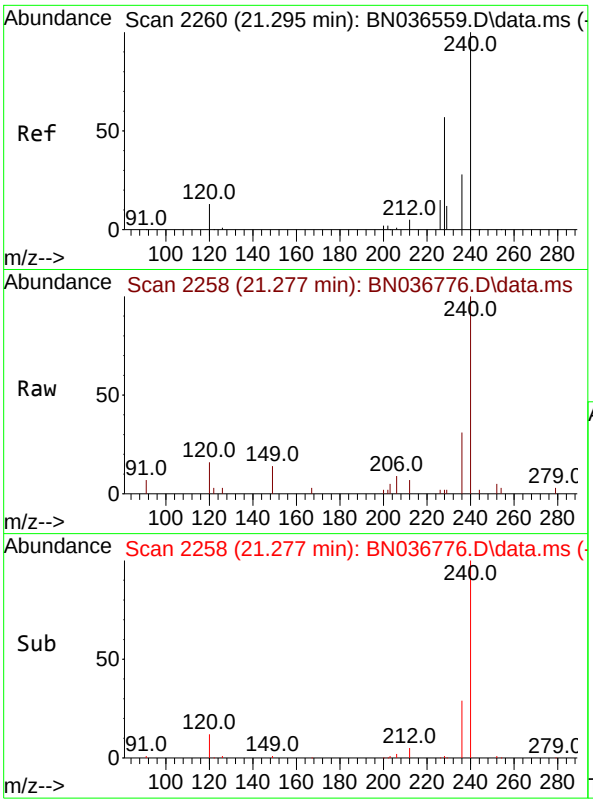


#27
Fluoranthene-d10
Concen: 0.205 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Tgt Ion:212 Resp: 2855

Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	8.4	7.3	10.9



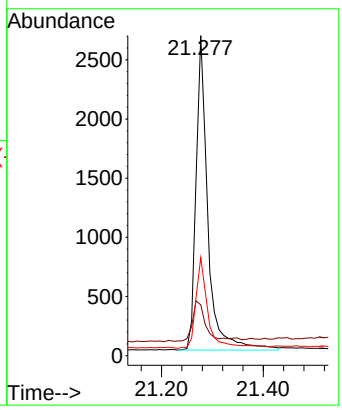


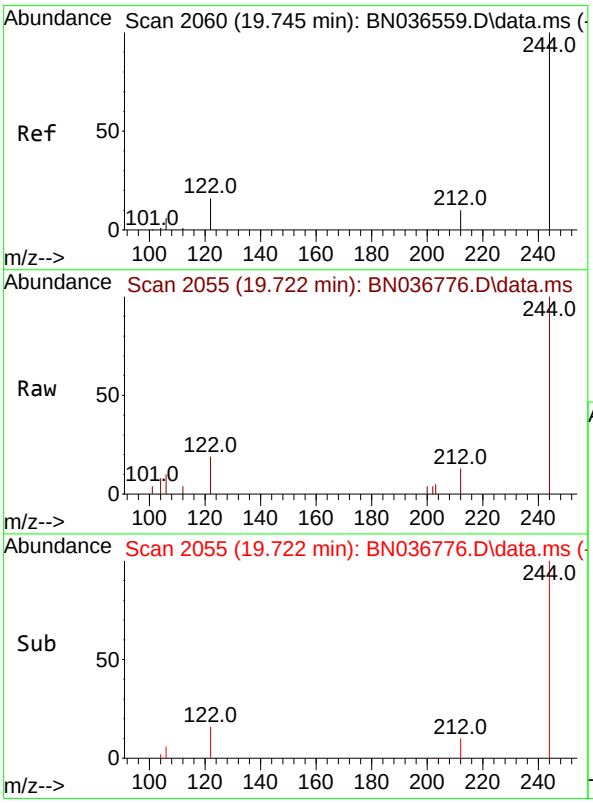
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Tgt Ion:240 Resp: 4284

Ion	Ratio	Lower	Upper
240	100		
120	15.9	14.6	22.0
236	30.7	24.1	36.1

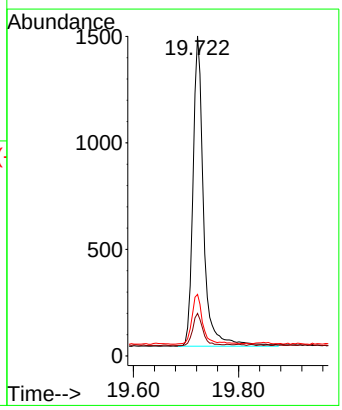


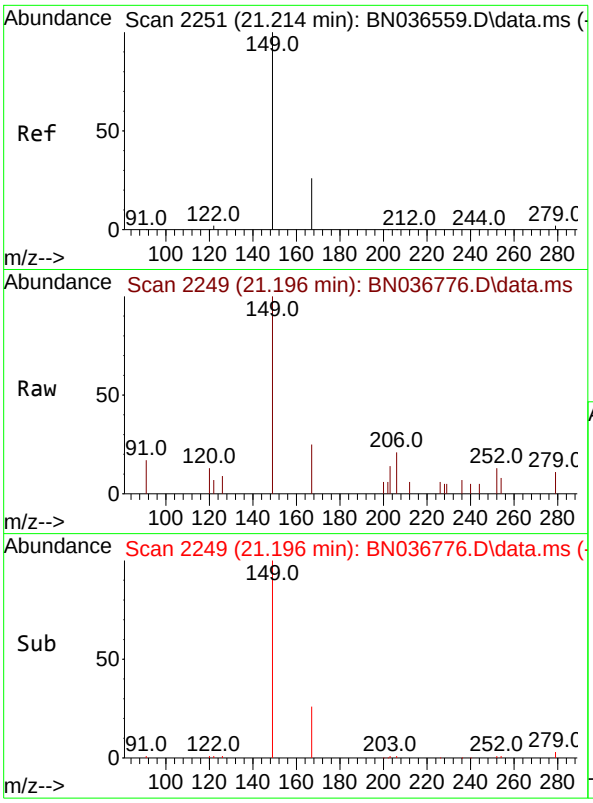


#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Tgt Ion:244 Resp: 2030

Ion	Ratio	Lower	Upper
244	100		
212	13.3	9.6	14.4
122	19.2	13.9	20.9



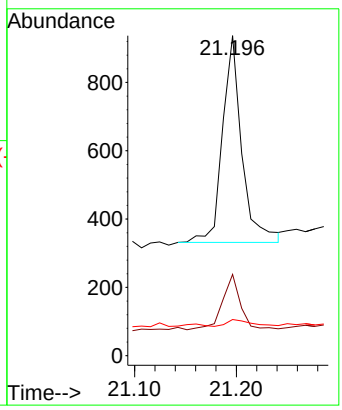


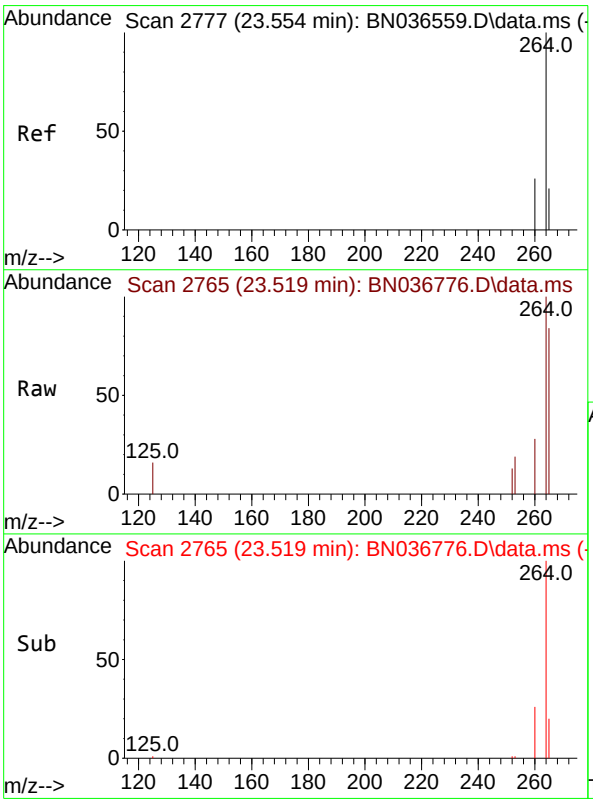
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.075 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Instrument :
BNA_N
ClientSampleId :
RE132D2-20250318DL

Tgt Ion:149 Resp: 798

Ion	Ratio	Lower	Upper
149	100		
167	25.3	20.7	31.1
279	4.1	3.6	5.4

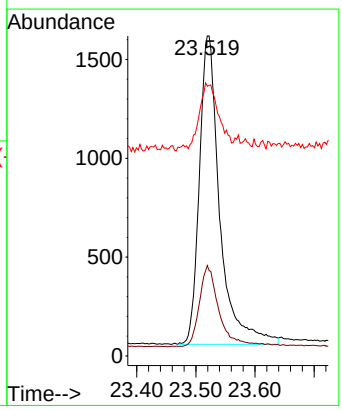




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036776.D
Acq: 28 Mar 2025 17:02

Tgt Ion:264 Resp: 3735

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	84.3	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D3-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-15	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036748.D	1	03/20/25 10:49	03/27/25 21:39	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.30	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1490	7.703				
1146-65-2	Naphthalene-d8	3650	10.487				
15067-26-2	Acenaphthene-d10	2300	14.345				
1517-22-2	Phenanthrene-d10	5200	17.086				
1719-03-5	Chrysene-d12	4670	21.277				
1520-96-3	Perylene-d12	4010	23.525				

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\BN032725\
Data File : BN036748.D
Acq On : 27 Mar 2025 21:39
Operator : RC/JU
Sample : Q1608-15
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Quant Time: Mar 28 00:58:37 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

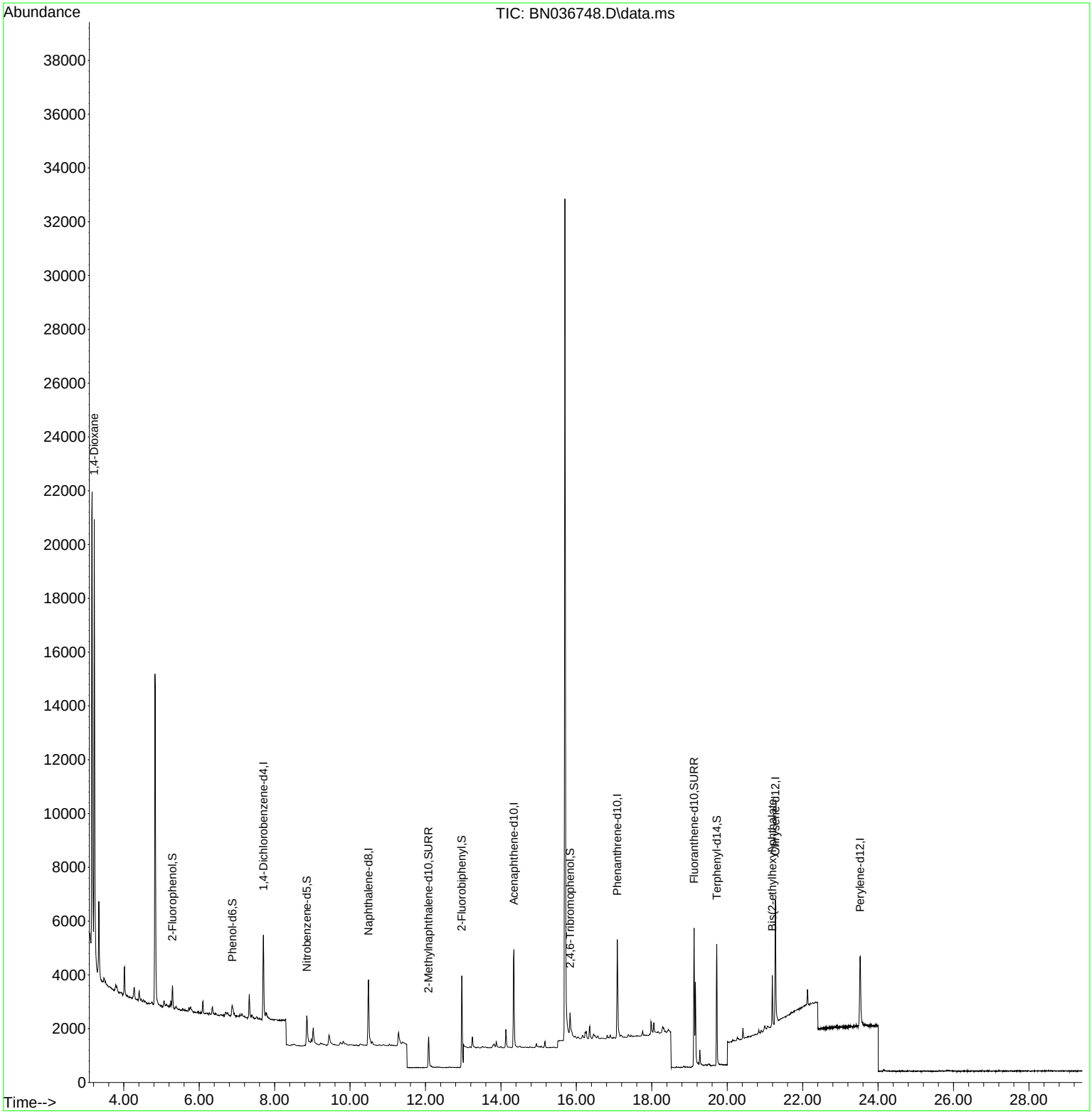
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1486	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3645	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2300	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5196	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4674	0.400	ng	-0.02
35) Perylene-d12	23.525	264	4006	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	628	0.181	ng	-0.02
5) Phenol-d6	6.879	99	428	0.100	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1245	0.314	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1865	0.344	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	497	0.476	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4702	0.351	ng	-0.03
27) Fluoranthene-d10	19.122	212	6055	0.455	ng	-0.02
31) Terphenyl-d14	19.722	244	4388	0.392	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	8752	5.309	ng	96
34) Bis(2-ethylhexyl)phtha...	21.196	149	1807	0.156	ng	# 96

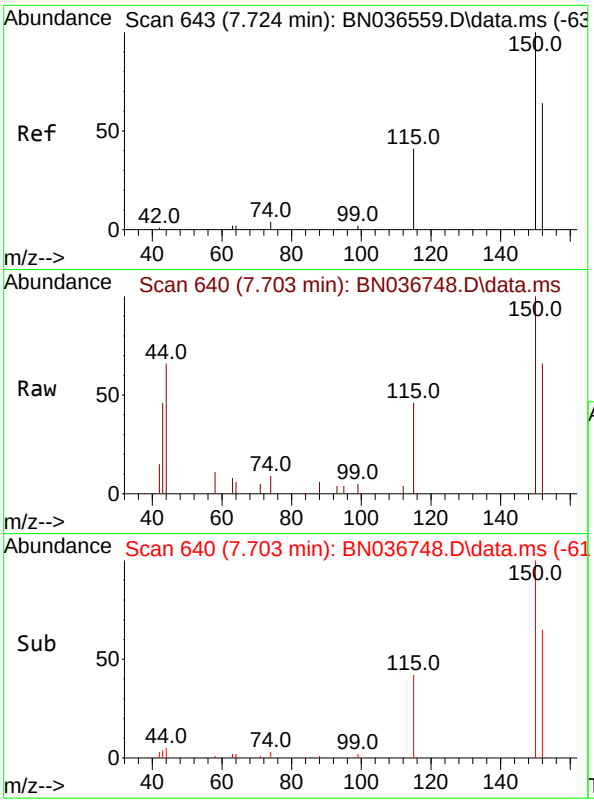
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036748.D
Acq On : 27 Mar 2025 21:39
Operator : RC/JU
Sample : Q1608-15
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Quant Time: Mar 28 00:58:37 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



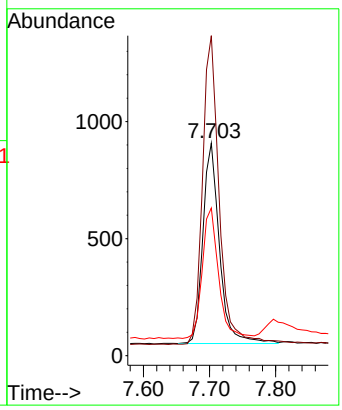


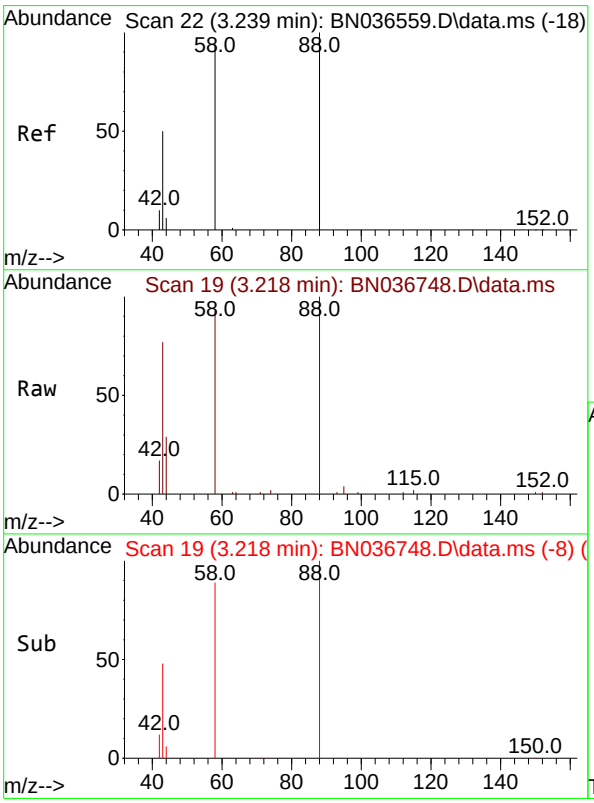
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Tgt Ion:152 Resp: 1486

Ion	Ratio	Lower	Upper
152	100		
150	150.6	123.7	185.5
115	69.5	54.3	81.5

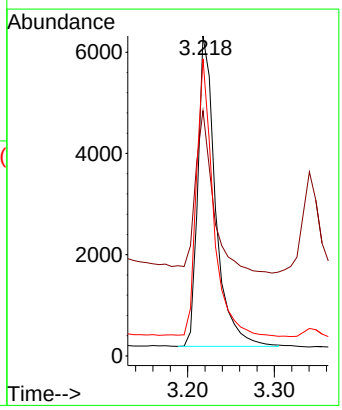


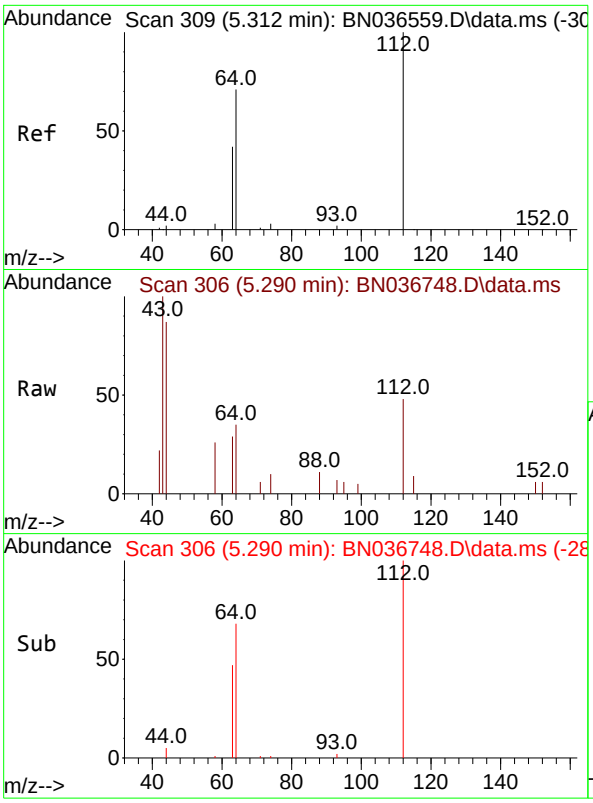


#2
1,4-Dioxane
Concen: 5.309 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Tgt Ion: 88 Resp: 8752

Ion	Ratio	Lower	Upper
88	100		
43	53.2	37.8	56.8
58	84.9	67.4	101.2



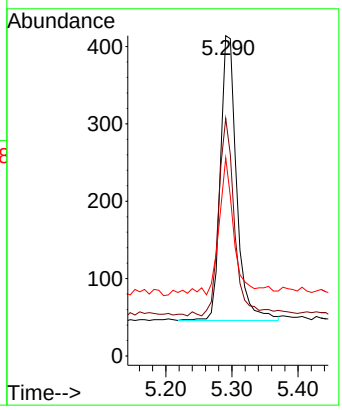


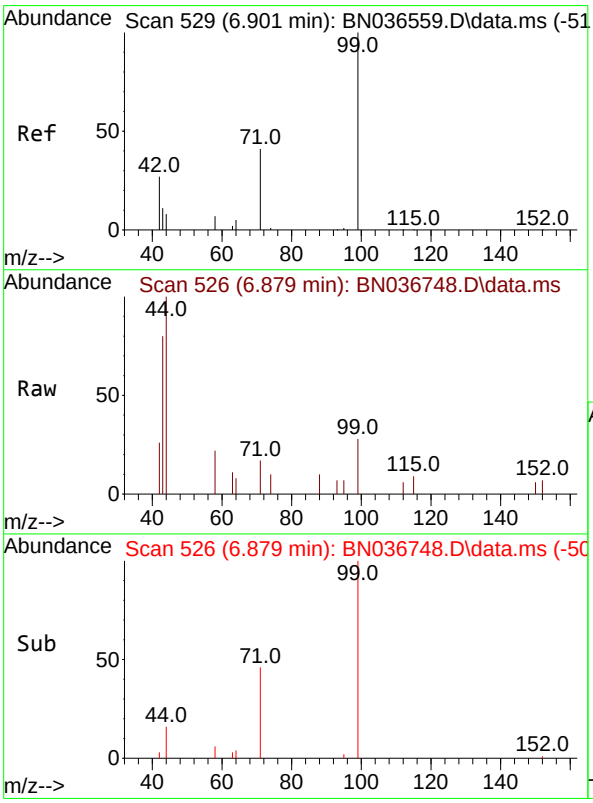
#4
2-Fluorophenol
Concen: 0.181 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Tgt Ion:112 Resp: 628

Ion	Ratio	Lower	Upper
112	100		
64	69.6	53.1	79.7
63	42.7	31.8	47.8

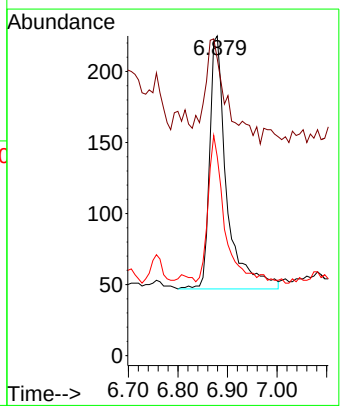


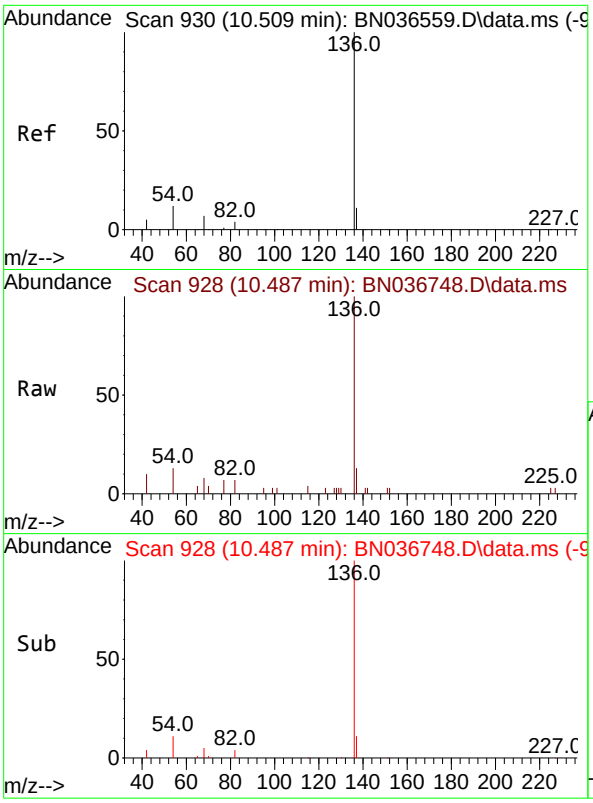


#5
Phenol-d6
Concen: 0.100 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Tgt Ion: 99 Resp: 428

Ion	Ratio	Lower	Upper
99	100		
42	32.5	26.5	39.7
71	57.7	34.1	51.1#



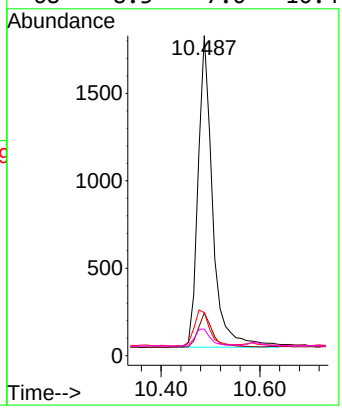


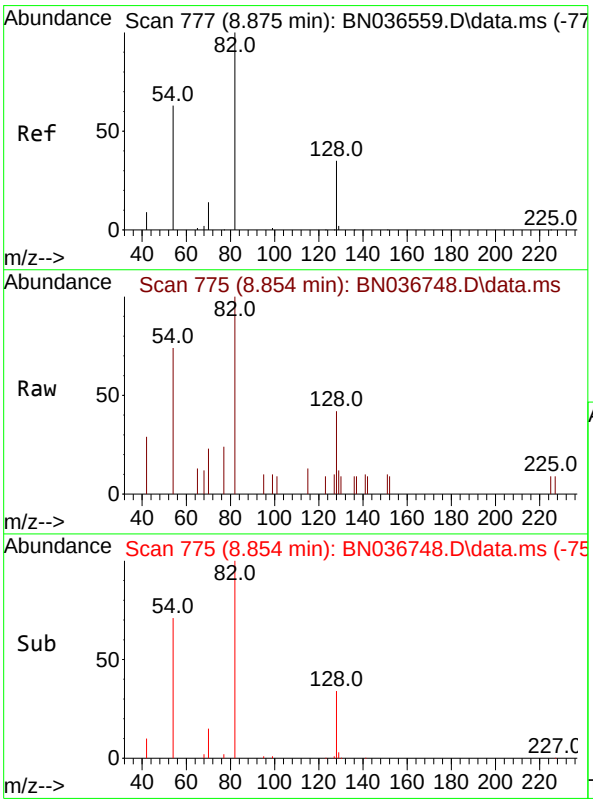
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Tgt Ion:136 Resp: 3645

Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	13.4	11.5	17.3
68	8.3	7.0	10.4

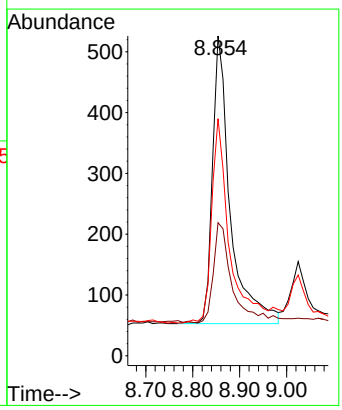


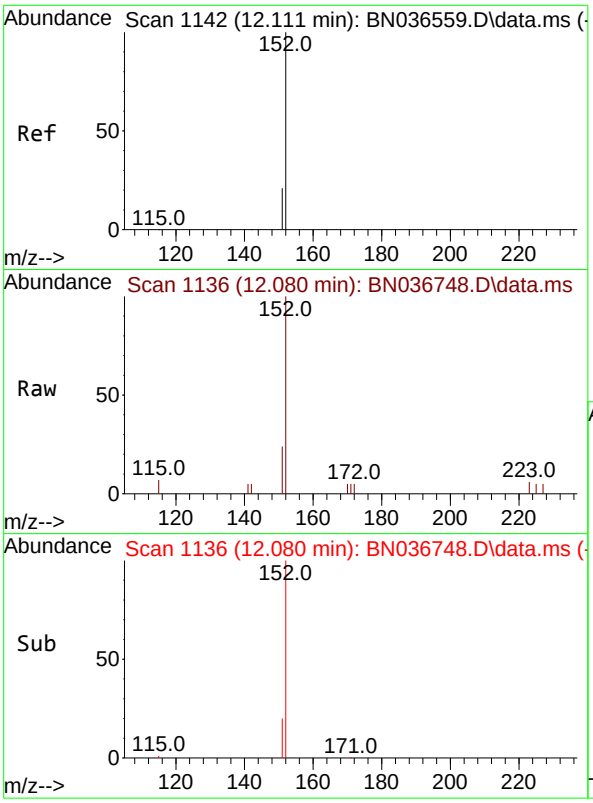


#8
Nitrobenzene-d5
Concen: 0.314 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Tgt Ion: 82 Resp: 1245

Ion	Ratio	Lower	Upper
82	100		
128	41.6	30.6	45.8
54	74.1	52.2	78.4



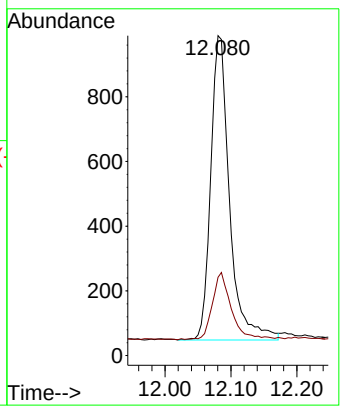


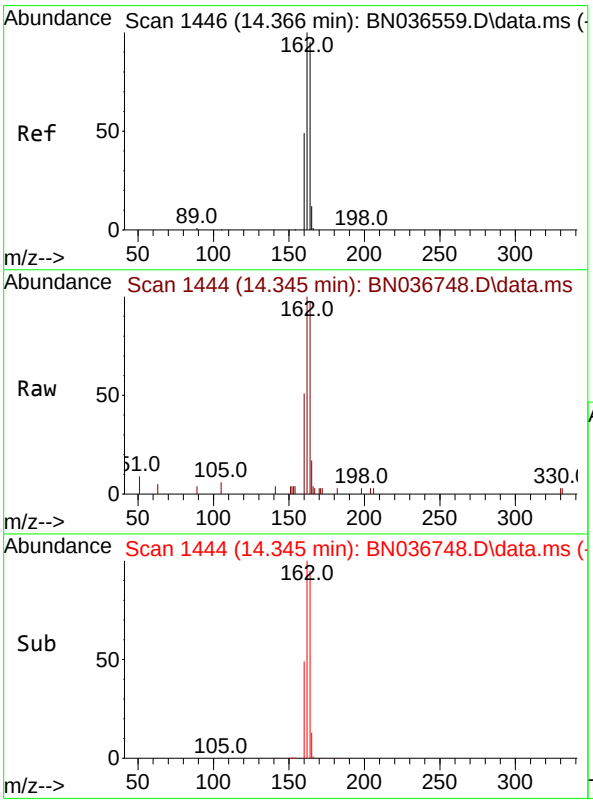
#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Tgt Ion:152 Resp: 1865

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

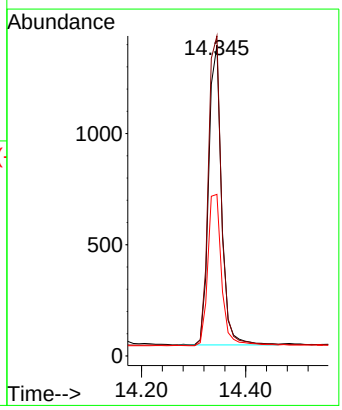


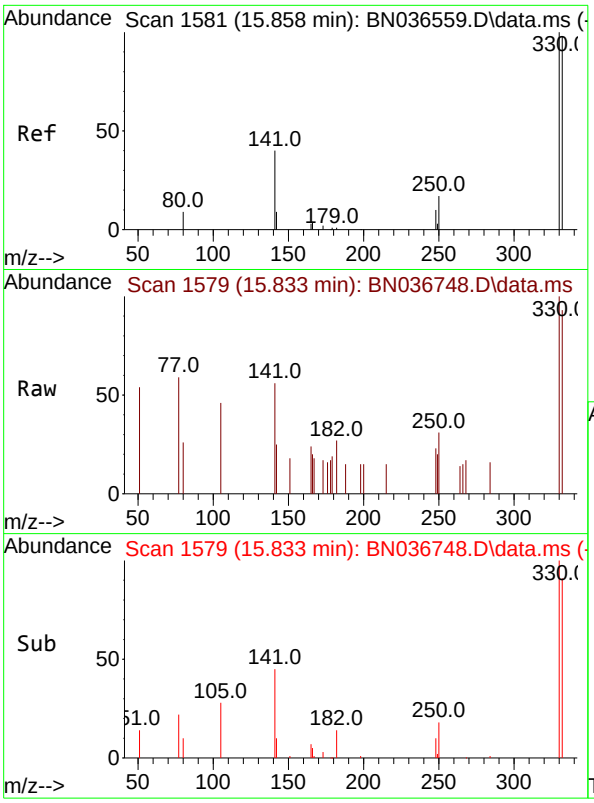


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Tgt Ion:164 Resp: 2300

Ion	Ratio	Lower	Upper
164	100		
162	103.0	84.2	126.2
160	52.0	42.2	63.2



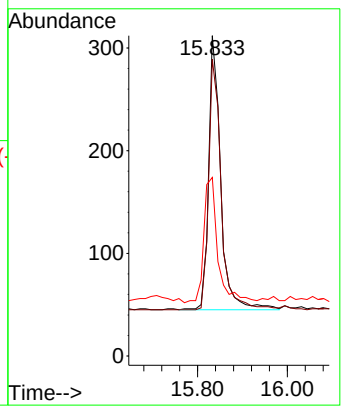


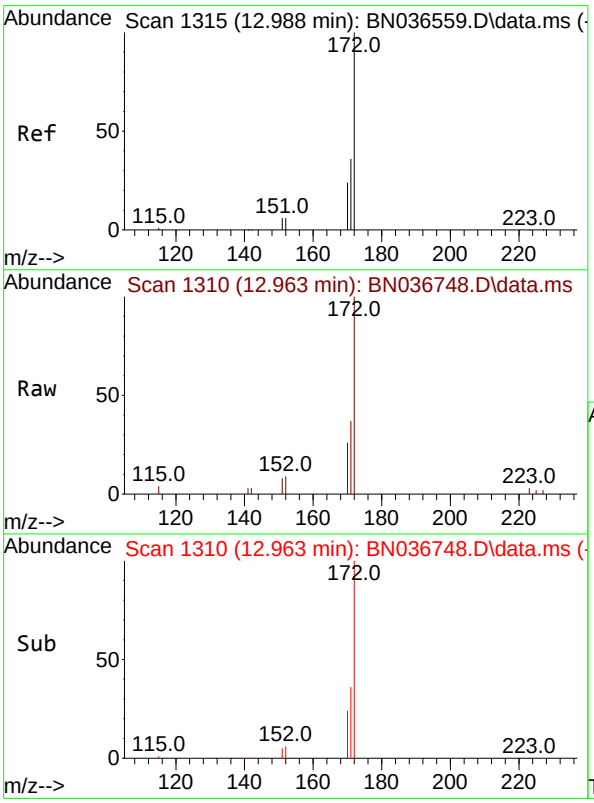
#14
2,4,6-Tribromophenol
Concen: 0.476 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Tgt Ion:330 Resp: 497

Ion	Ratio	Lower	Upper
330	100		
332	94.4	75.2	112.8
141	52.9	43.4	65.2

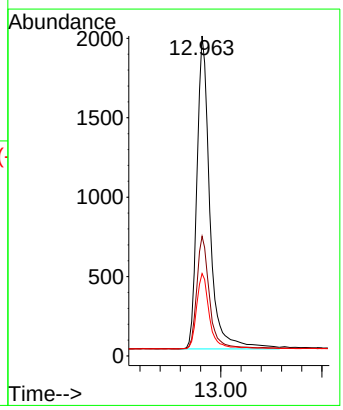


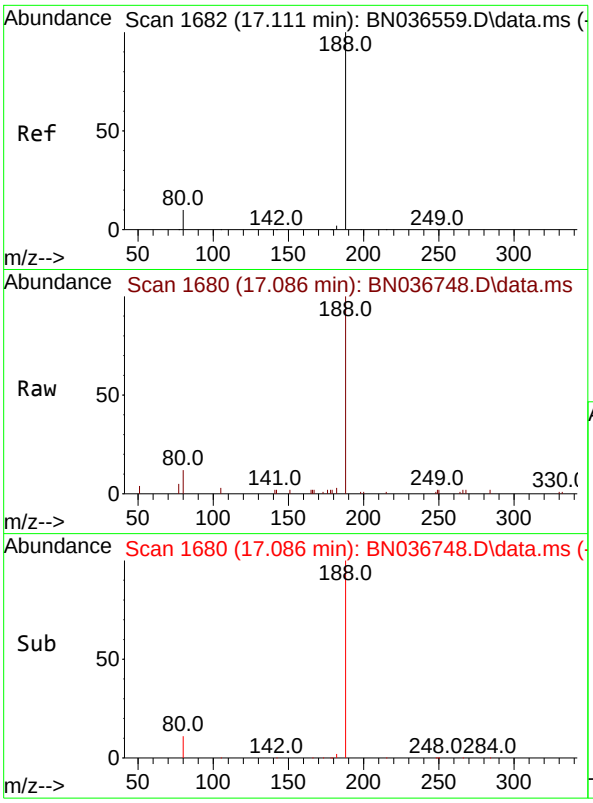


#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Tgt Ion:172 Resp: 4702

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.5	44.3
170	25.8	20.2	30.4



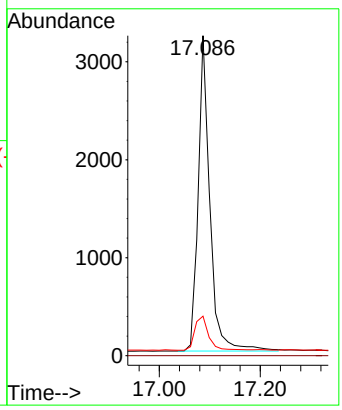


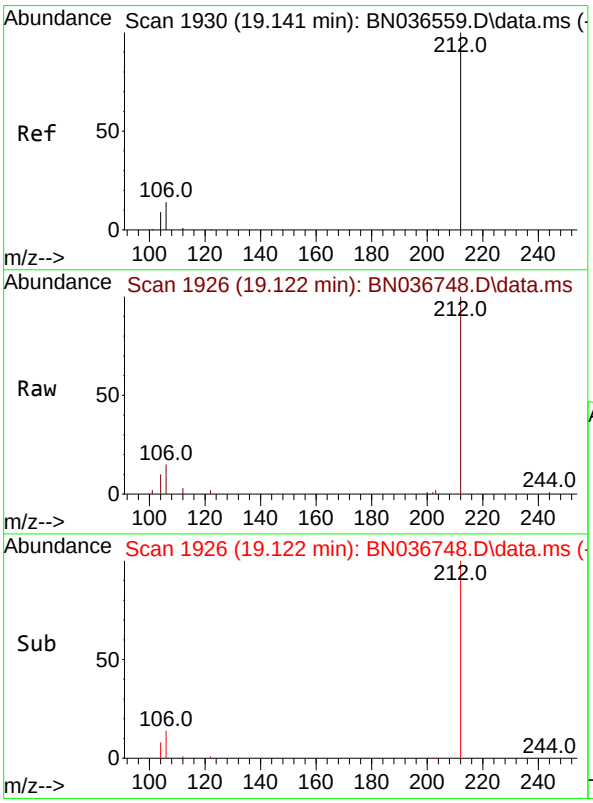
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Tgt Ion:188 Resp: 5196

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.3	8.8	13.2

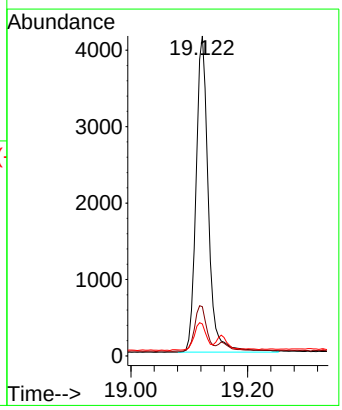


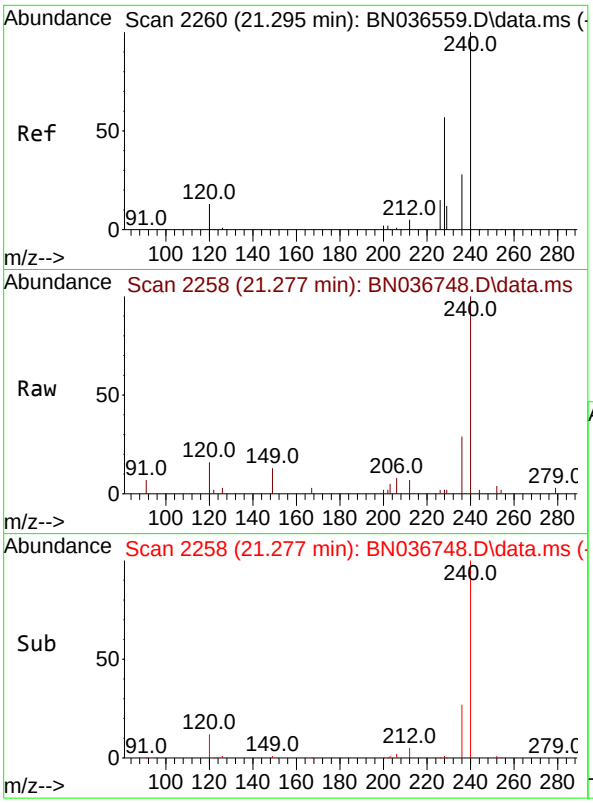


#27
Fluoranthene-d10
Concen: 0.455 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.019 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Tgt Ion:212 Resp: 6055

Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.8	17.6
104	8.5	7.3	10.9



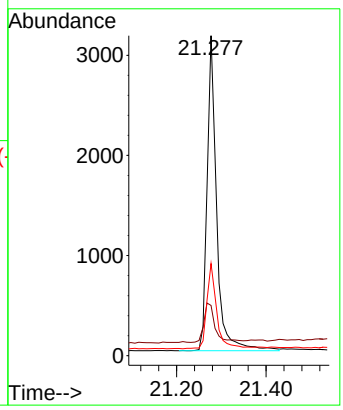


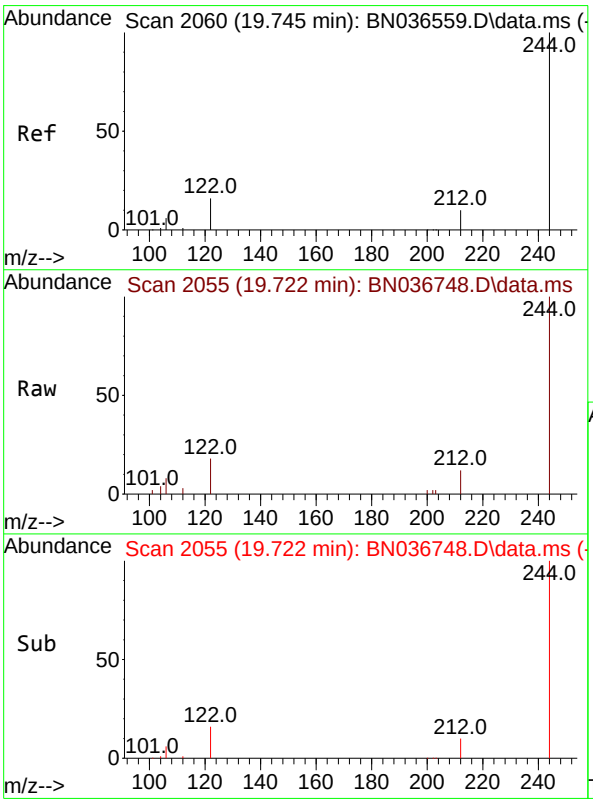
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Tgt Ion:240 Resp: 4674

Ion	Ratio	Lower	Upper
240	100		
120	15.7	14.6	22.0
236	28.8	24.1	36.1

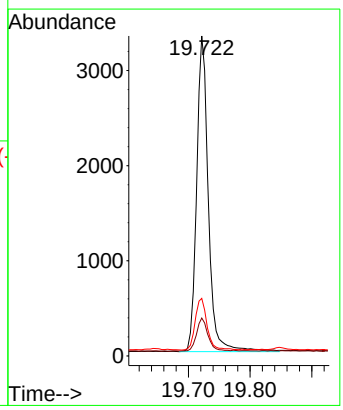


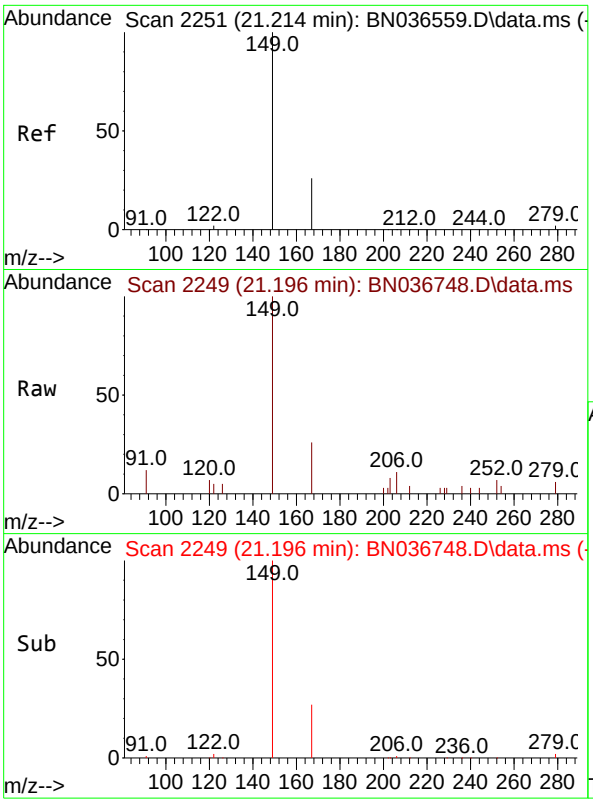


#31
Terphenyl-d14
Concen: 0.392 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Tgt Ion:244 Resp: 4388

Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	18.0	13.9	20.9



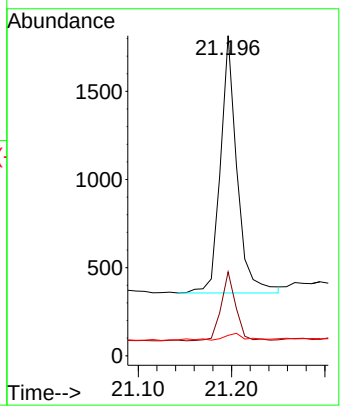


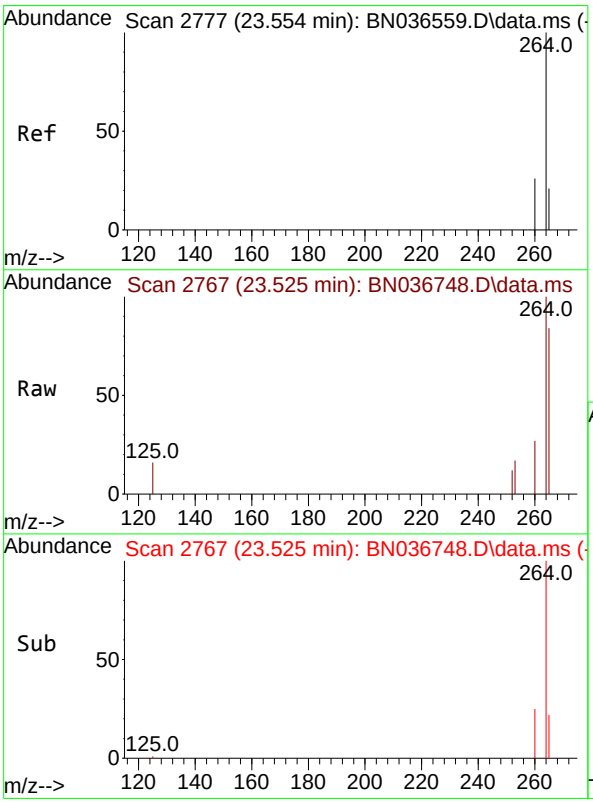
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.156 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318

Tgt Ion:149 Resp: 1807

Ion	Ratio	Lower	Upper
149	100		
167	23.7	20.7	31.1
279	3.0	3.6	5.4#

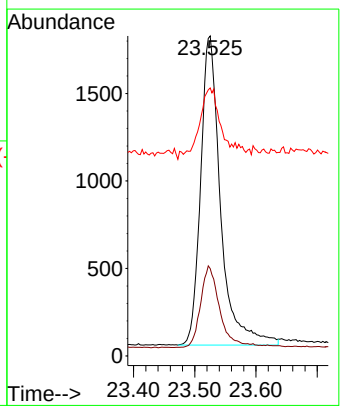




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2767
Delta R.T. -0.029 min
Lab File: BN036748.D
Acq: 27 Mar 2025 21:39

Tgt Ion:264 Resp: 4006

Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.6	33.8
265	83.8	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D3-20250318DL	SDG No.:	Q1608
Lab Sample ID:	Q1608-15DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036777.D	2	03/20/25 10:49	03/28/25 17:38	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.20	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1520	7.703				
1146-65-2	Naphthalene-d8	3590	10.487				
15067-26-2	Acenaphthene-d10	2160	14.334				
1517-22-2	Phenanthrene-d10	5040	17.086				
1719-03-5	Chrysene-d12	3980	21.277				
1520-96-3	Perylene-d12	3470	23.519				

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\BN032825\
Data File : BN036777.D
Acq On : 28 Mar 2025 17:38
Operator : RC/JU
Sample : Q1608-15DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Quant Time: Mar 28 18:23:14 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

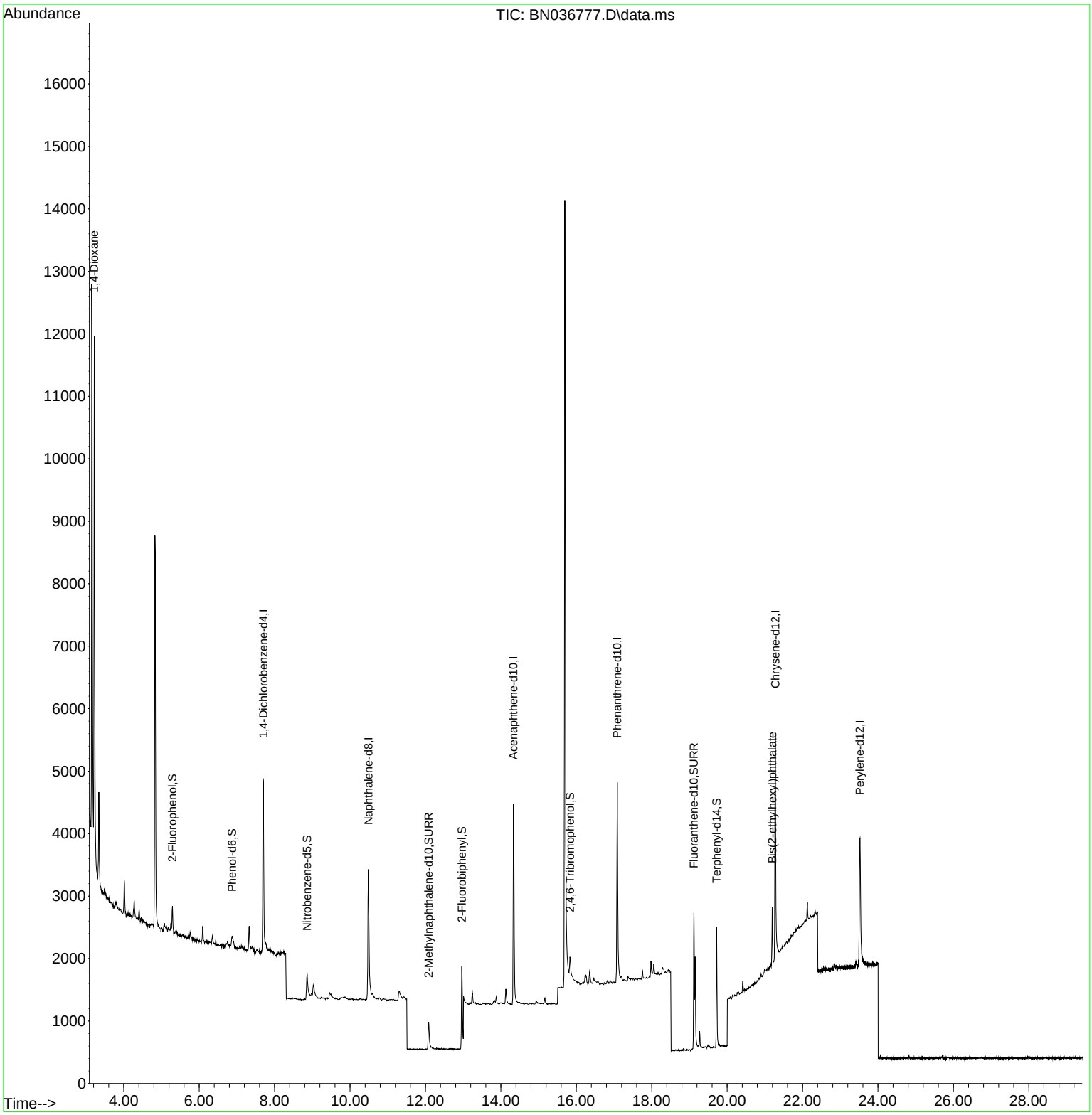
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1524	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3591	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2164	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5035	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3983	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3471	0.400	ng	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	321	0.090	ng	-0.02
5) Phenol-d6	6.872	99	205	0.047	ng	-0.03
8) Nitrobenzene-d5	8.864	82	580	0.148	ng	-0.01
11) 2-Methylnaphthalene-d10	12.085	152	849	0.159	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	221	0.225	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	2066	0.164	ng	-0.02
27) Fluoranthene-d10	19.118	212	2813	0.218	ng	-0.02
31) Terphenyl-d14	19.722	244	1971	0.207	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	4366	2.583	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.196	149	912	0.092	ng	95

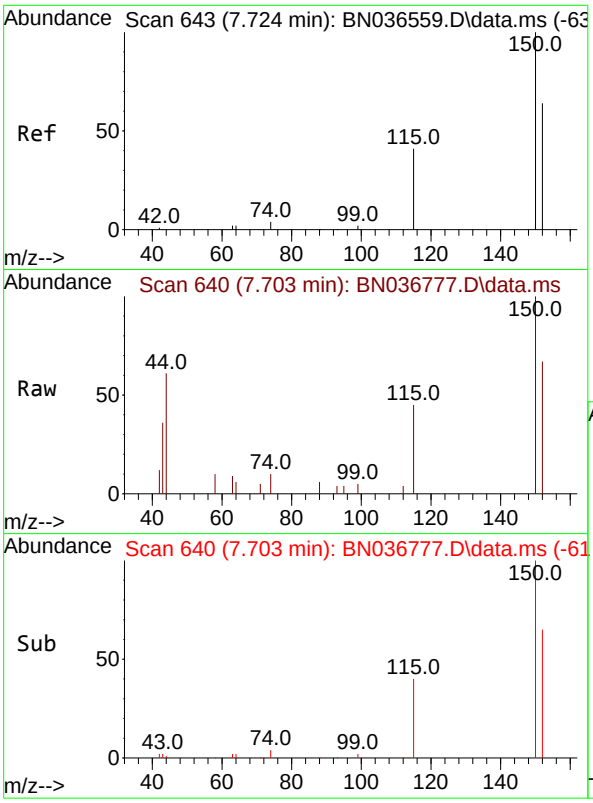
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036777.D
Acq On : 28 Mar 2025 17:38
Operator : RC/JU
Sample : Q1608-15DL 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Quant Time: Mar 28 18:23:14 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



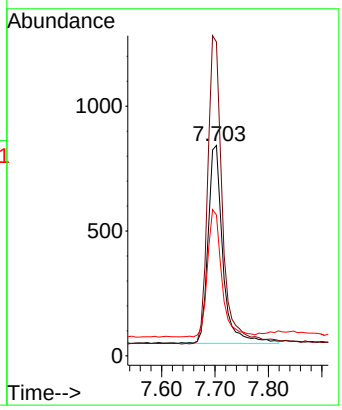


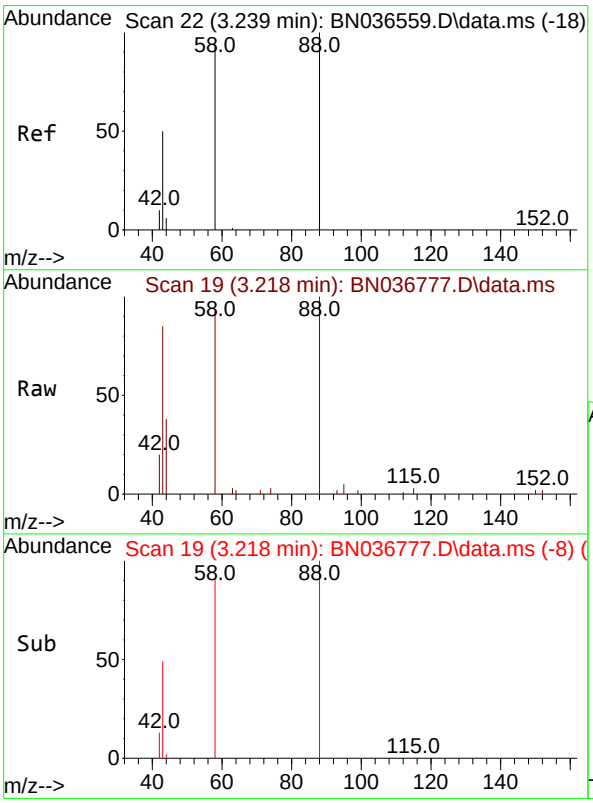
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Tgt Ion:152 Resp: 1524

Ion	Ratio	Lower	Upper
152	100		
150	149.2	123.7	185.5
115	66.9	54.3	81.5

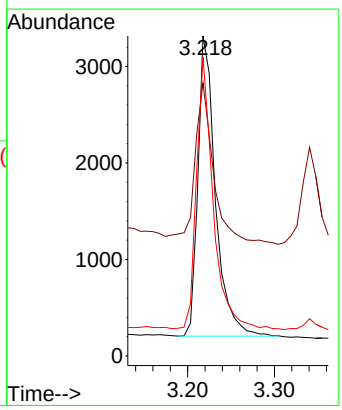


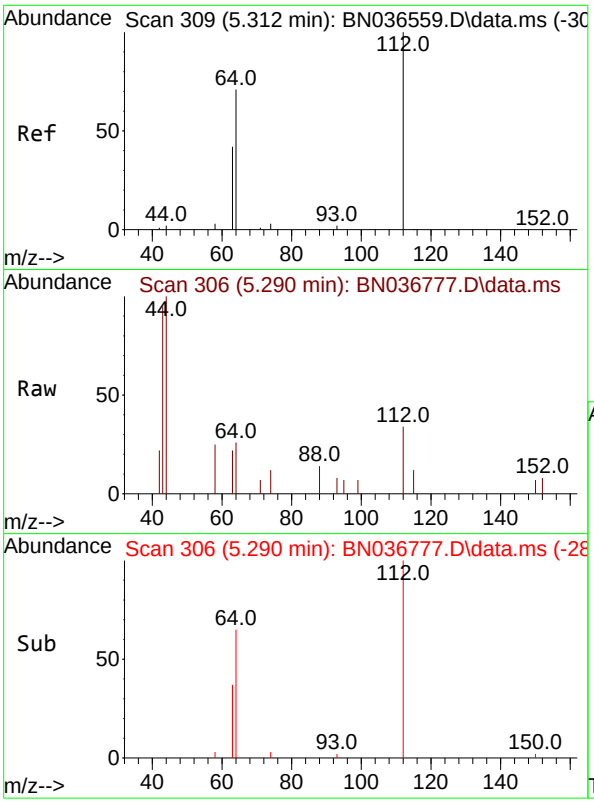


#2
1,4-Dioxane
Concen: 2.583 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Tgt Ion: 88 Resp: 4366

Ion	Ratio	Lower	Upper
88	100		
43	57.8	37.8	56.8#
58	86.0	67.4	101.2



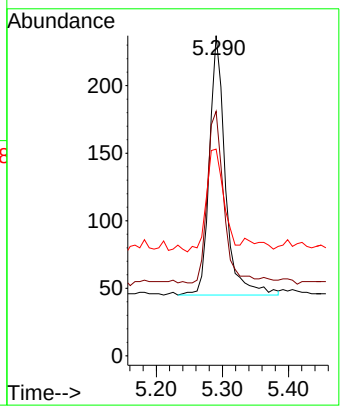


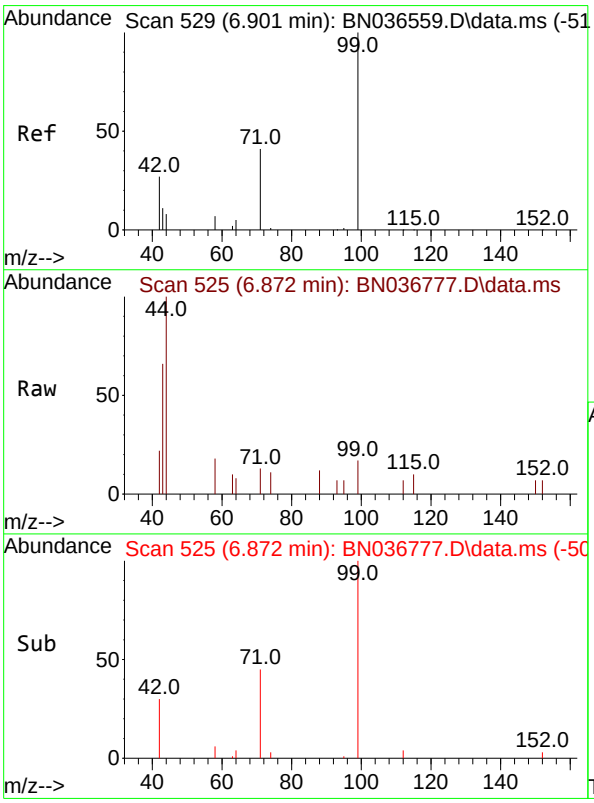
#4
2-Fluorophenol
Concen: 0.090 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Tgt Ion:112 Resp: 321

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.1	79.7
63	43.6	31.8	47.8

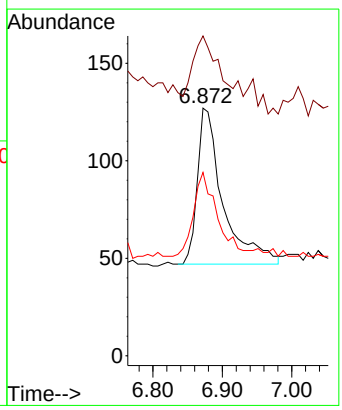


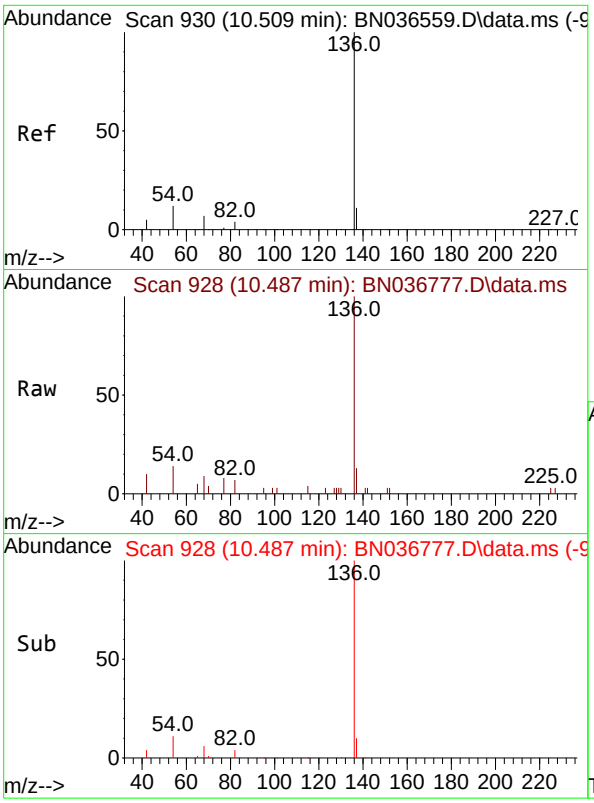


#5
Phenol-d6
Concen: 0.047 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Tgt Ion: 99 Resp: 205

Ion	Ratio	Lower	Upper
99	100		
42	36.1	26.5	39.7
71	49.8	34.1	51.1



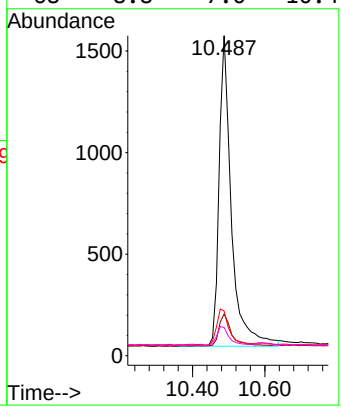


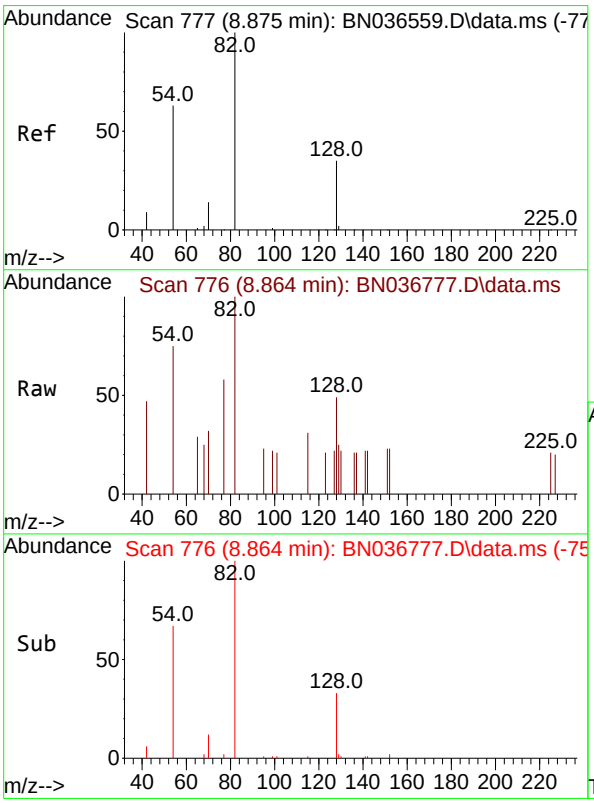
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Tgt Ion:136 Resp: 3591

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	14.0	11.5	17.3
68	8.8	7.0	10.4

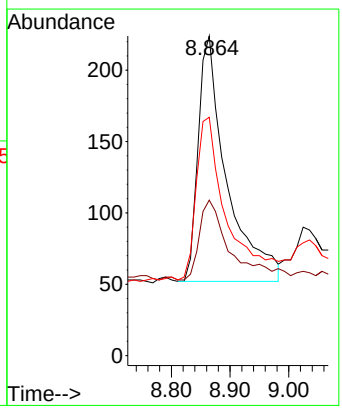


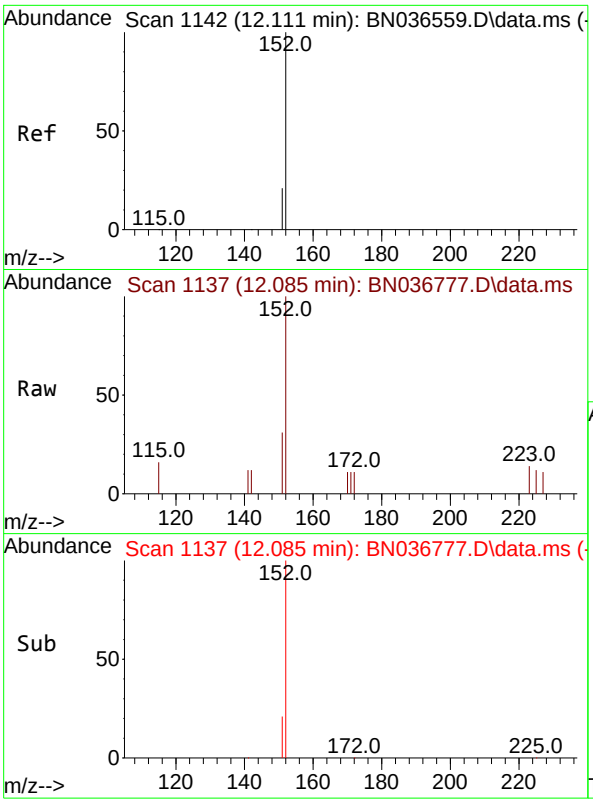


#8
Nitrobenzene-d5
Concen: 0.148 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Tgt Ion: 82 Resp: 580

Ion	Ratio	Lower	Upper
82	100		
128	48.7	30.6	45.8#
54	74.6	52.2	78.4



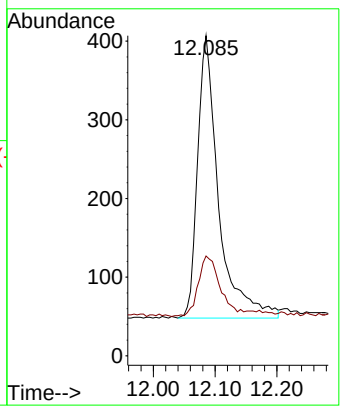


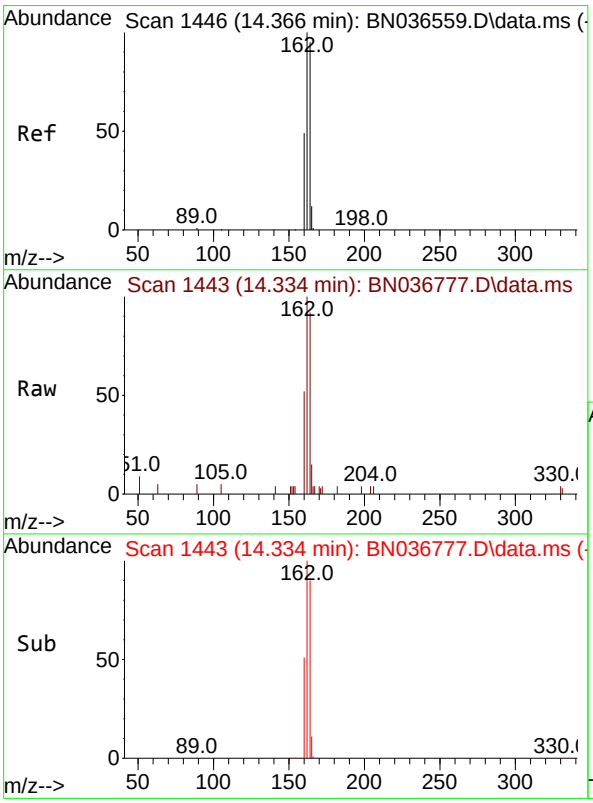
#11
2-Methylnaphthalene-d10
Concen: 0.159 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Tgt Ion:152 Resp: 849

Ion	Ratio	Lower	Upper
152	100		
151	22.7	17.0	25.6

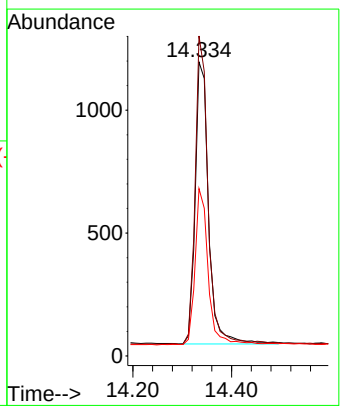


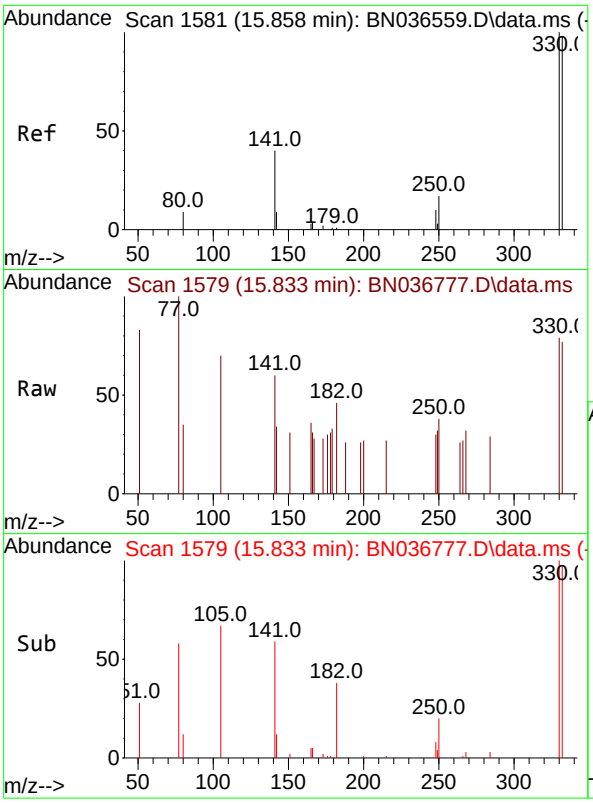


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Tgt Ion:164 Resp: 2164

Ion	Ratio	Lower	Upper
164	100		
162	108.9	84.2	126.2
160	56.9	42.2	63.2



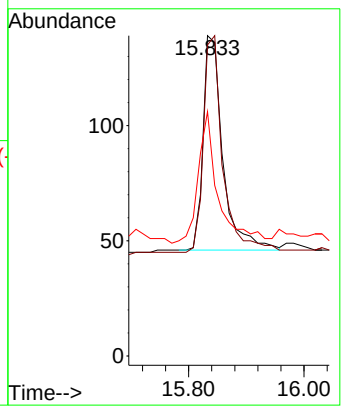


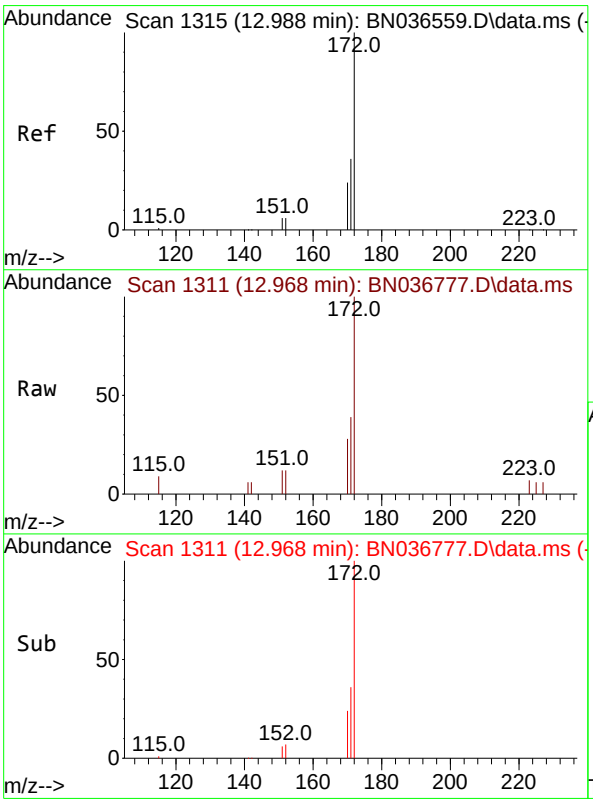
#14
2,4,6-Tribromophenol
Concen: 0.225 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Tgt Ion:330 Resp: 221

Ion	Ratio	Lower	Upper
330	100		
332	99.5	75.2	112.8
141	61.5	43.4	65.2

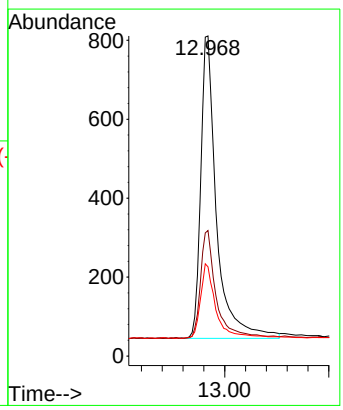


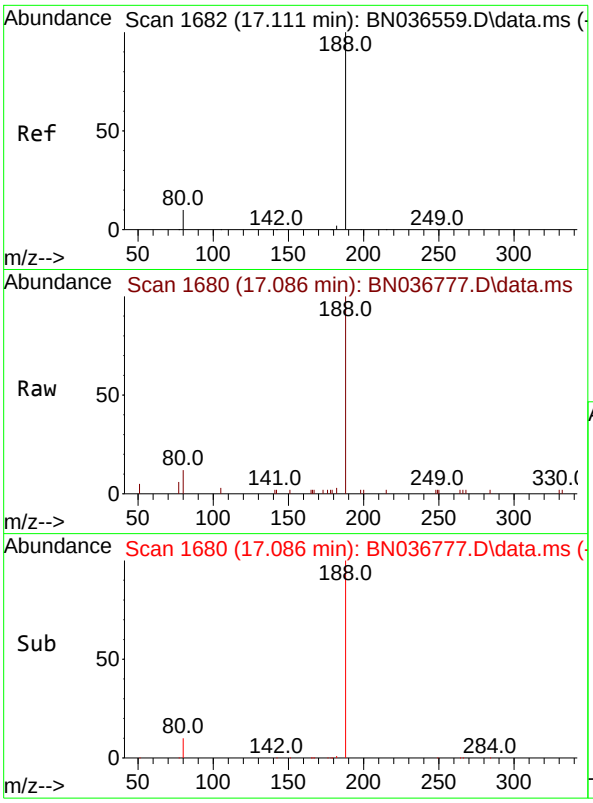


#15
2-Fluorobiphenyl
Concen: 0.164 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Tgt Ion:172 Resp: 2066

Ion	Ratio	Lower	Upper
172	100		
171	39.2	29.5	44.3
170	27.9	20.2	30.4



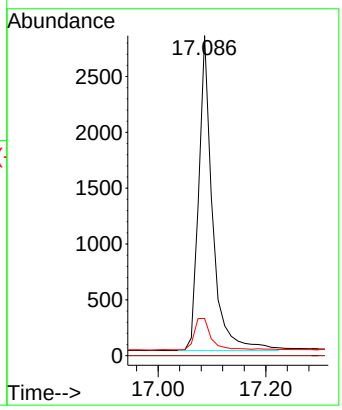


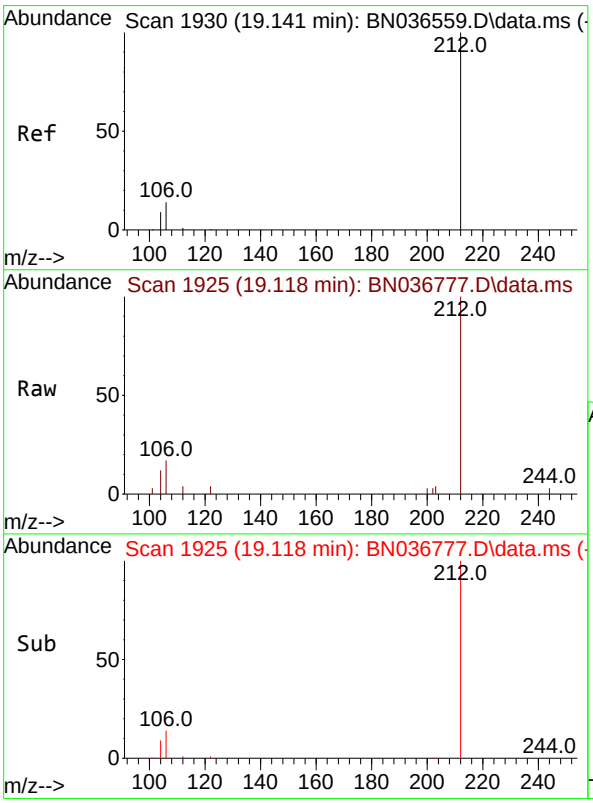
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Tgt Ion:188 Resp: 5035

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

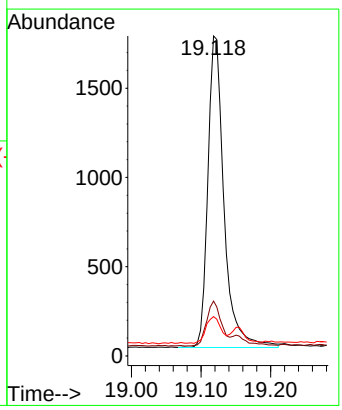


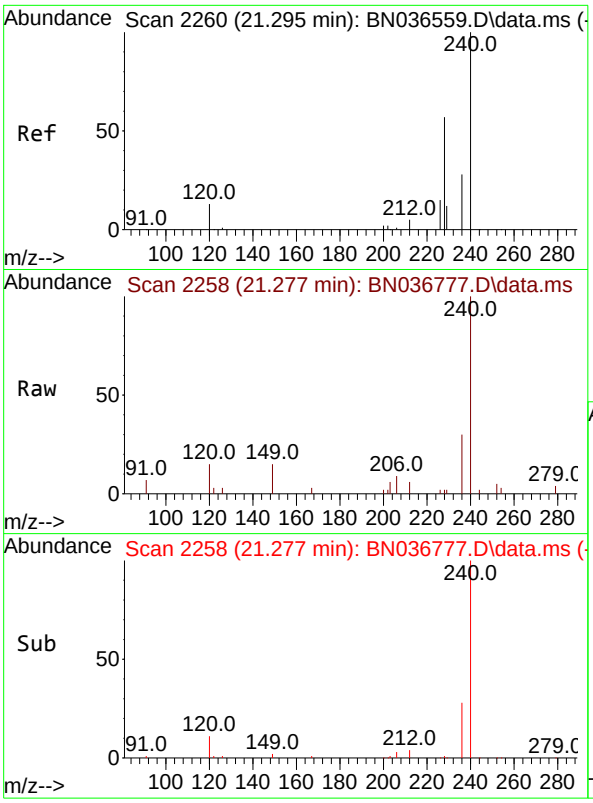


#27
Fluoranthene-d10
Concen: 0.218 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Tgt Ion:212 Resp: 2813

Ion	Ratio	Lower	Upper
212	100		
106	13.1	11.8	17.6
104	7.8	7.3	10.9



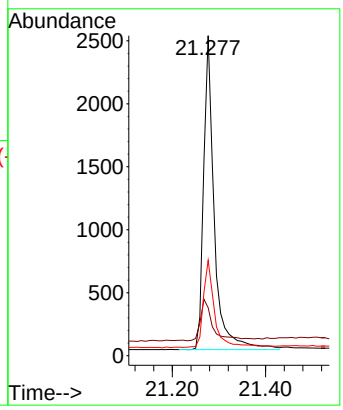


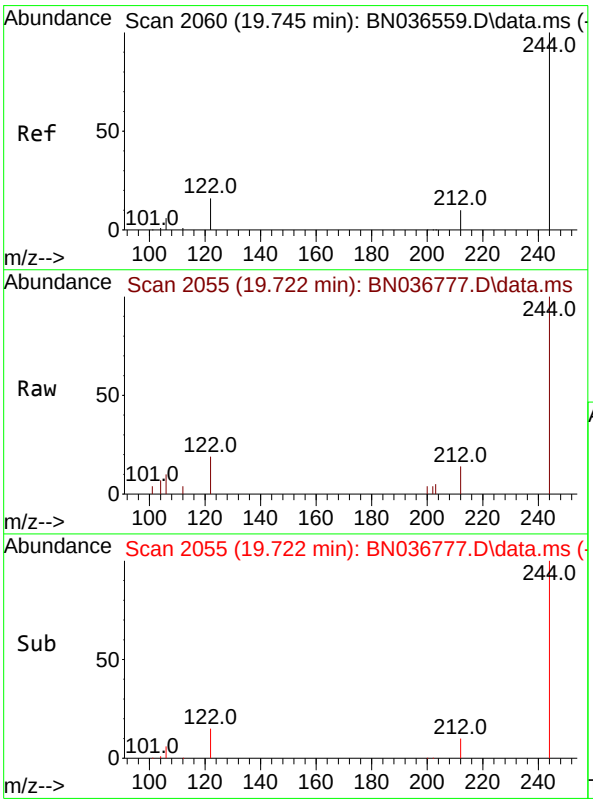
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Tgt Ion:240 Resp: 3983

Ion	Ratio	Lower	Upper
240	100		
120	15.0	14.6	22.0
236	29.8	24.1	36.1

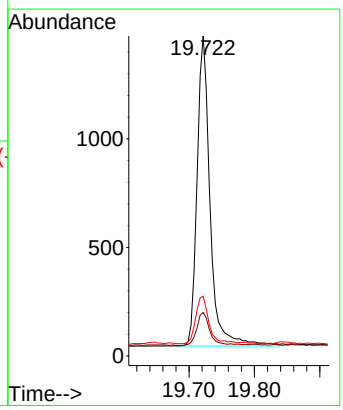


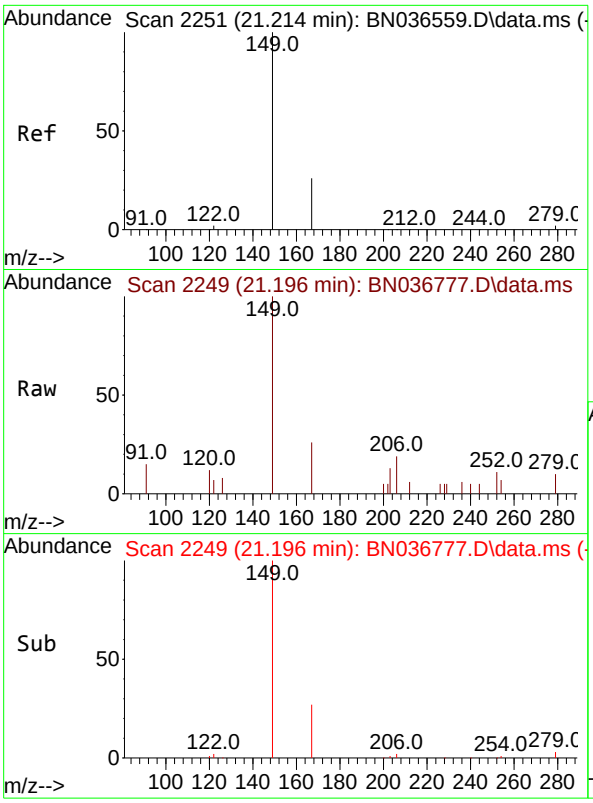


#31
Terphenyl-d14
Concen: 0.207 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Tgt Ion:244 Resp: 1971

Ion	Ratio	Lower	Upper
244	100		
212	13.6	9.6	14.4
122	18.7	13.9	20.9



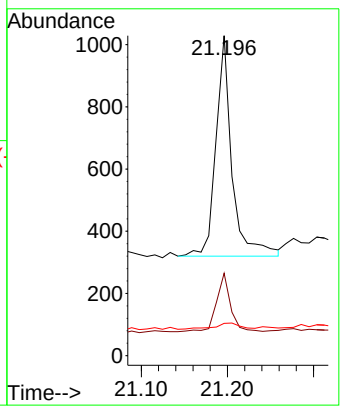


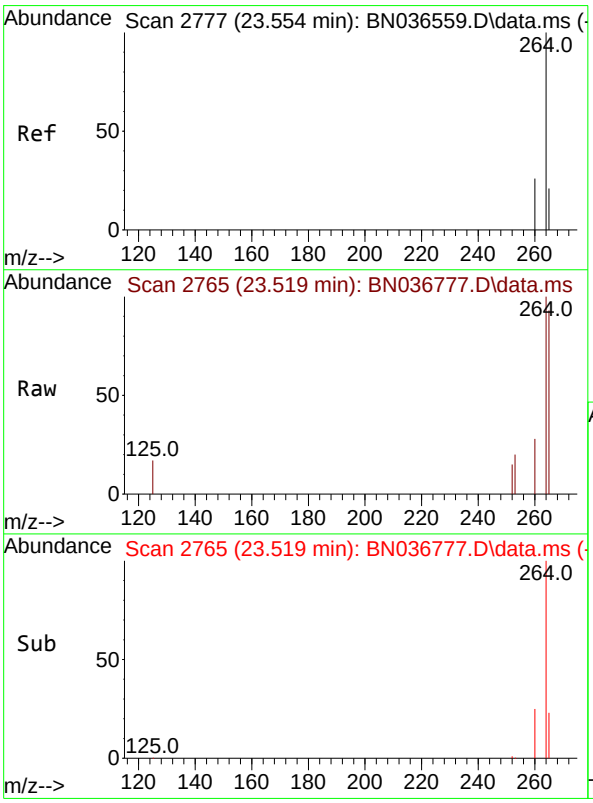
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.092 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Instrument :
BNA_N
ClientSampleId :
RE132D3-20250318DL

Tgt Ion:149 Resp: 912

Ion	Ratio	Lower	Upper
149	100		
167	23.1	20.7	31.1
279	4.5	3.6	5.4

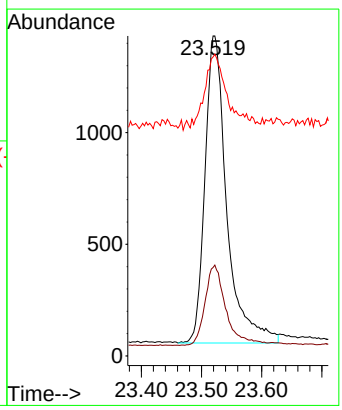




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036777.D
Acq: 28 Mar 2025 17:38

Tgt Ion:264 Resp: 3471

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.6	33.8
265	93.4	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D4-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-16	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036749.D	1	03/20/25 10:49	03/27/25 22:15	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.90		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.48		30 - 150		120%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1860	7.703				
1146-65-2	Naphthalene-d8	4600	10.488				
15067-26-2	Acenaphthene-d10	2950	14.334				
1517-22-2	Phenanthrene-d10	6370	17.087				
1719-03-5	Chrysene-d12	5660	21.277				
1520-96-3	Perylene-d12	5000	23.522				

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\BN032725\
Data File : BN036749.D
Acq On : 27 Mar 2025 22:15
Operator : RC/JU
Sample : Q1608-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Quant Time: Mar 28 00:58:52 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

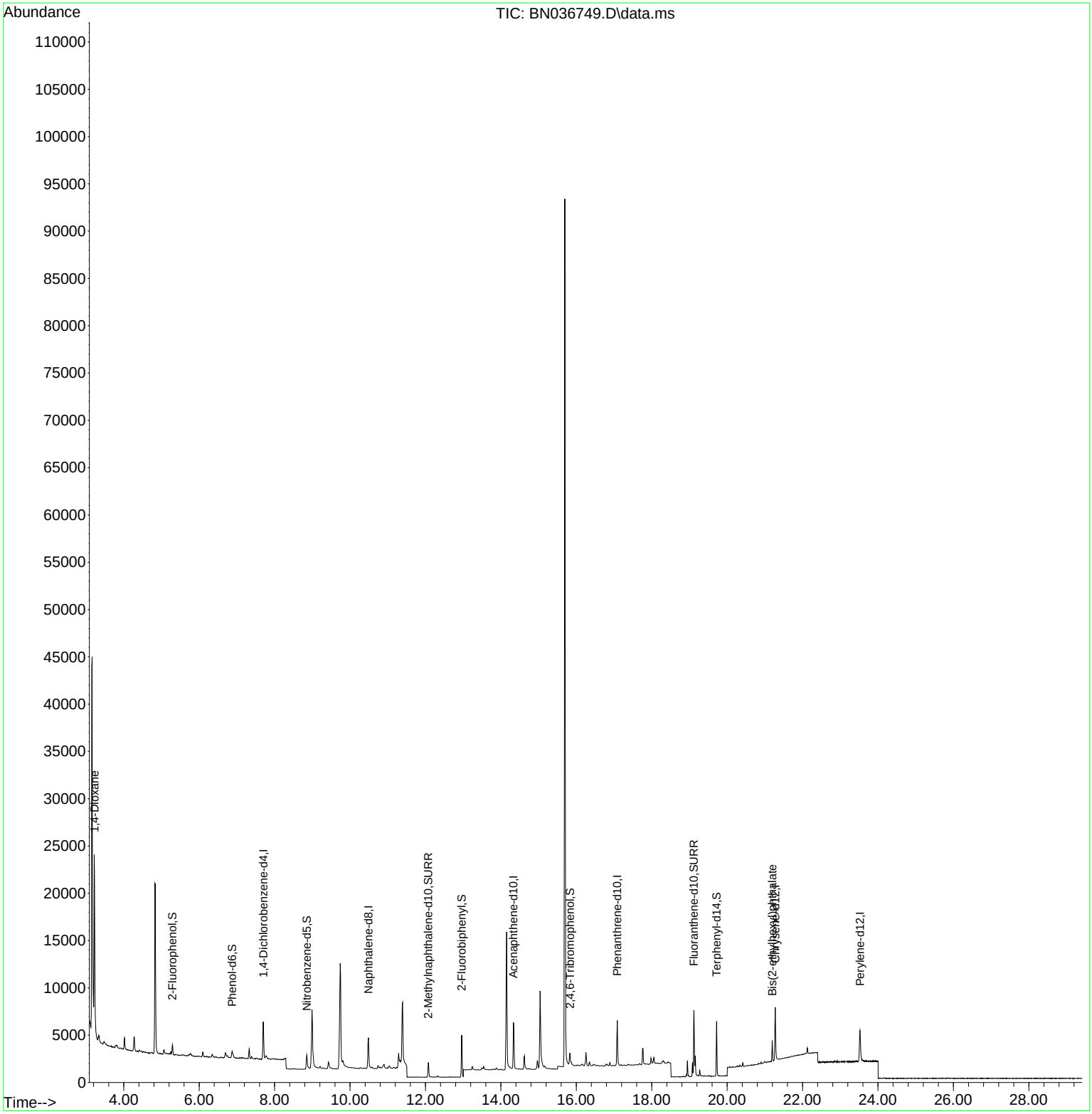
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1863	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	4600	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2953	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	6367	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	5663	0.400	ng	-0.02
35) Perylene-d12	23.522	264	4996	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	769	0.177	ng	-0.02
5) Phenol-d6	6.872	99	567	0.106	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1430	0.286	ng	-0.02
11) 2-Methylnaphthalene-d10	12.075	152	2127	0.311	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	623	0.465	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5365	0.312	ng	-0.03
27) Fluoranthene-d10	19.118	212	7825	0.480	ng	-0.02
31) Terphenyl-d14	19.722	244	5510	0.406	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	10113	4.893	ng	96
34) Bis(2-ethylhexyl)phtha...	21.196	149	2009	0.143	ng	# 98

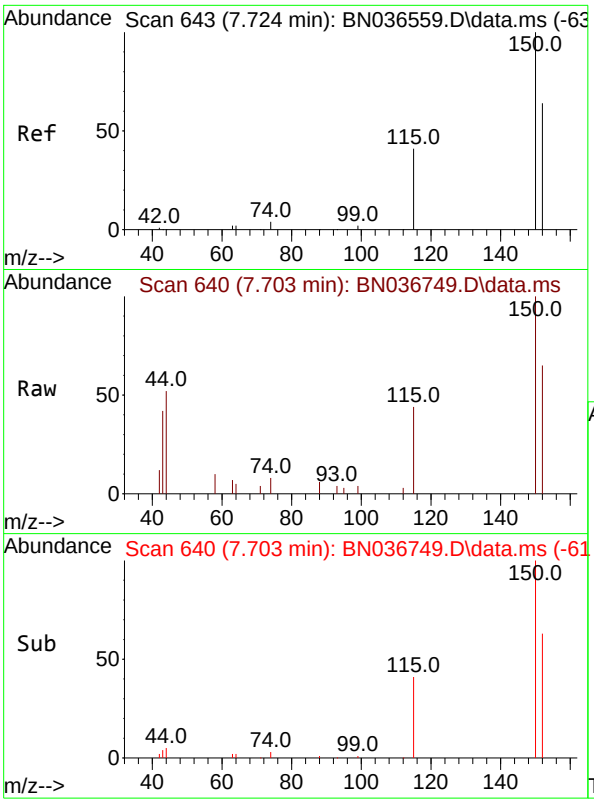
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036749.D
Acq On : 27 Mar 2025 22:15
Operator : RC/JU
Sample : Q1608-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Quant Time: Mar 28 00:58:52 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



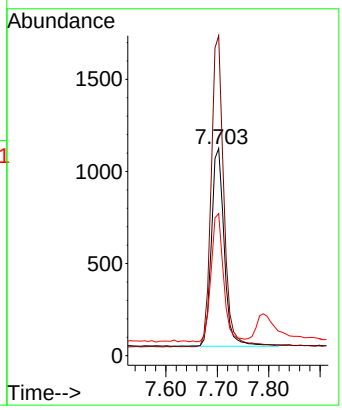


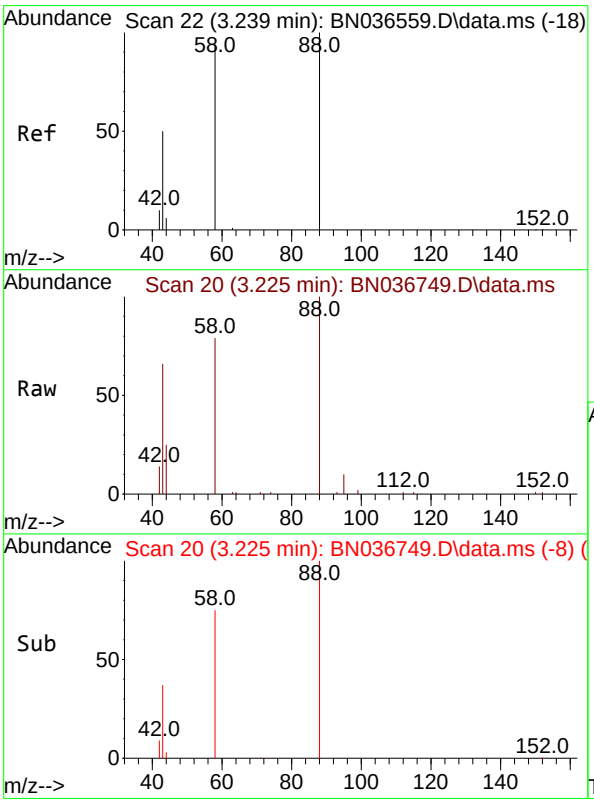
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Tgt Ion:152 Resp: 1863

Ion	Ratio	Lower	Upper
152	100		
150	154.4	123.7	185.5
115	68.5	54.3	81.5

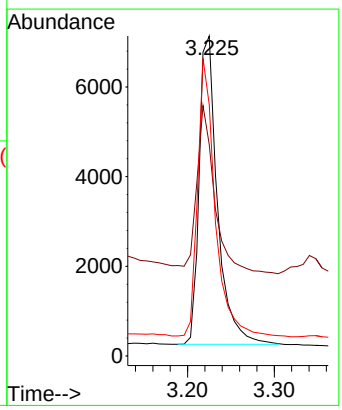


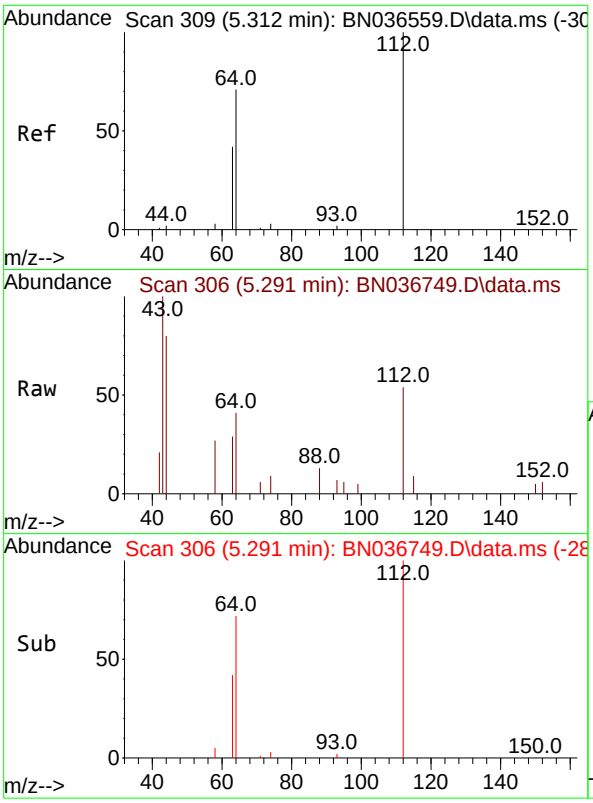


#2
1,4-Dioxane
Concen: 4.893 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Tgt Ion: 88 Resp: 10113

Ion	Ratio	Lower	Upper
88	100		
43	54.4	37.8	56.8
58	85.2	67.4	101.2



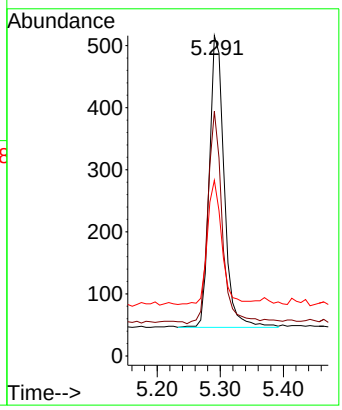


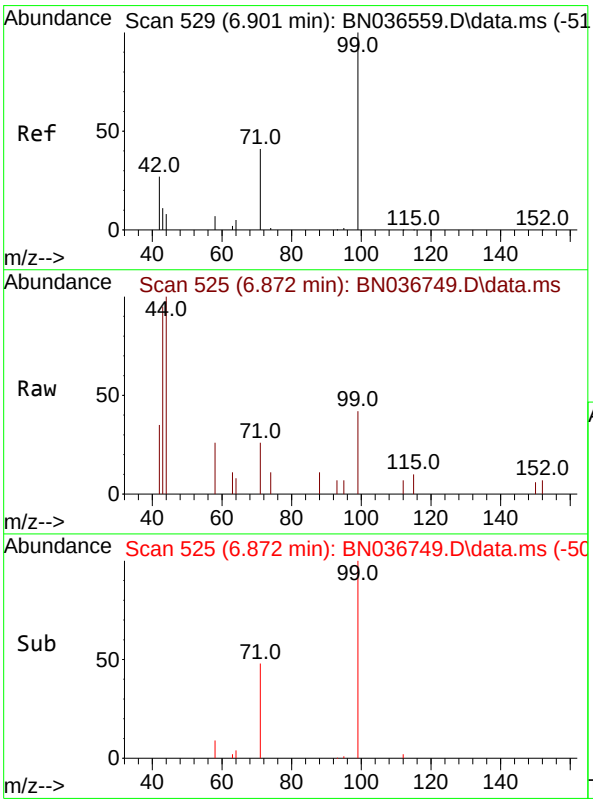
#4
2-Fluorophenol
Concen: 0.177 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Tgt Ion:112 Resp: 769

Ion	Ratio	Lower	Upper
112	100		
64	70.2	53.1	79.7
63	40.3	31.8	47.8

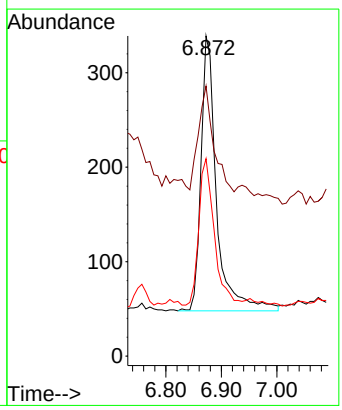


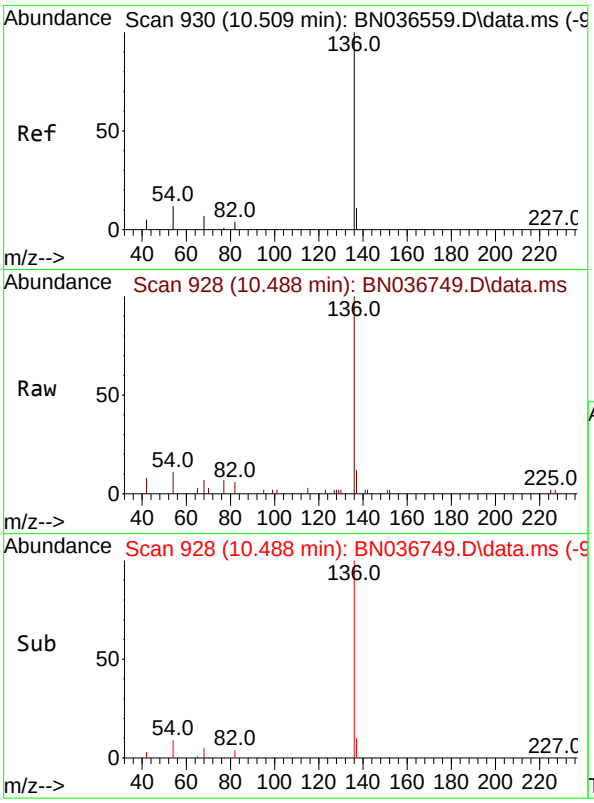


#5
Phenol-d6
Concen: 0.106 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Tgt Ion: 99 Resp: 567

Ion	Ratio	Lower	Upper
99	100		
42	39.0	26.5	39.7
71	52.9	34.1	51.1#



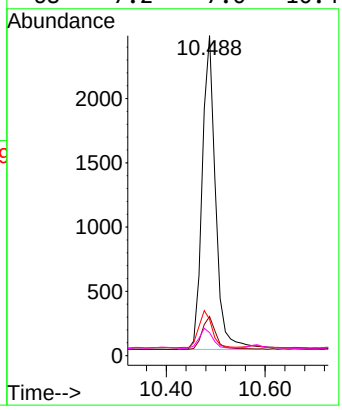


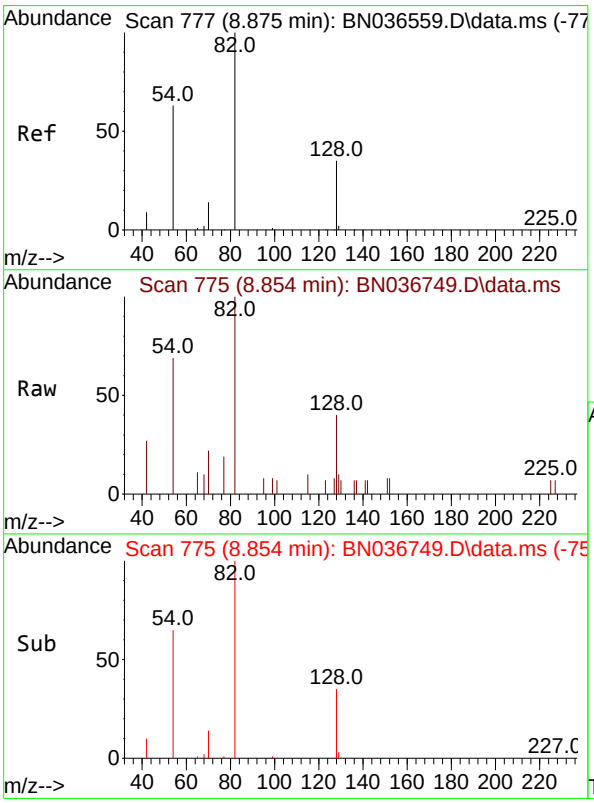
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Tgt Ion:136 Resp: 4600

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.3	15.5
54	11.3	11.5	17.3#
68	7.2	7.0	10.4

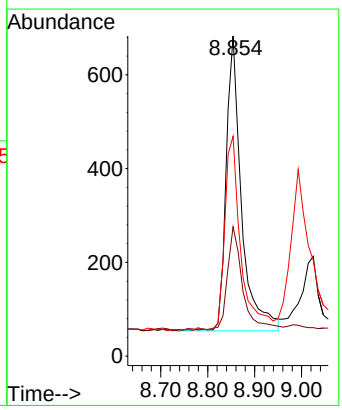


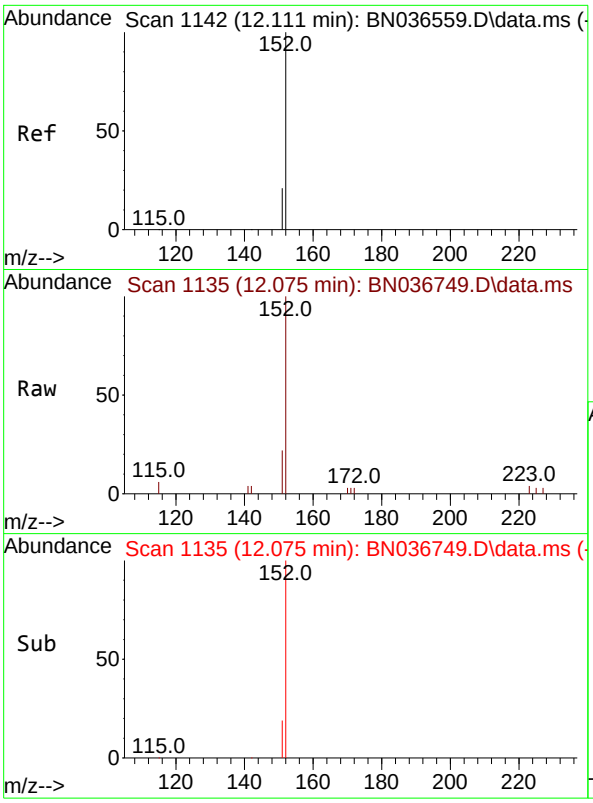


#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Tgt Ion: 82 Resp: 1430

Ion	Ratio	Lower	Upper
82	100		
128	40.4	30.6	45.8
54	68.7	52.2	78.4



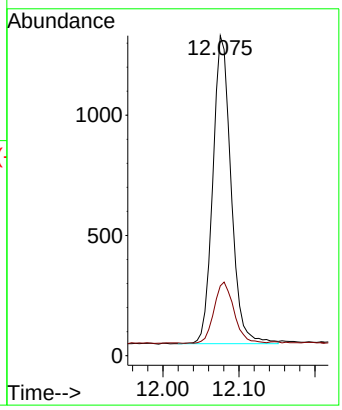


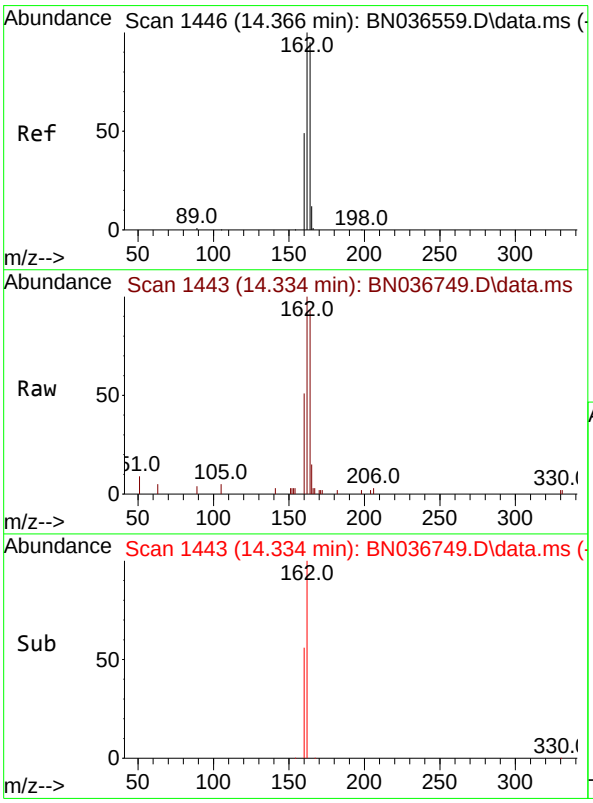
#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Tgt Ion:152 Resp: 2127

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

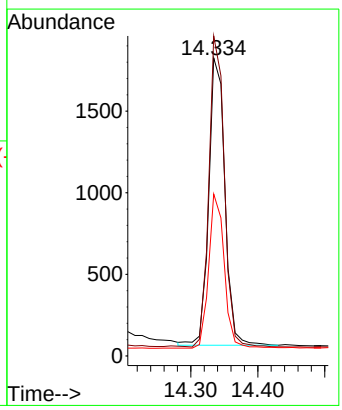


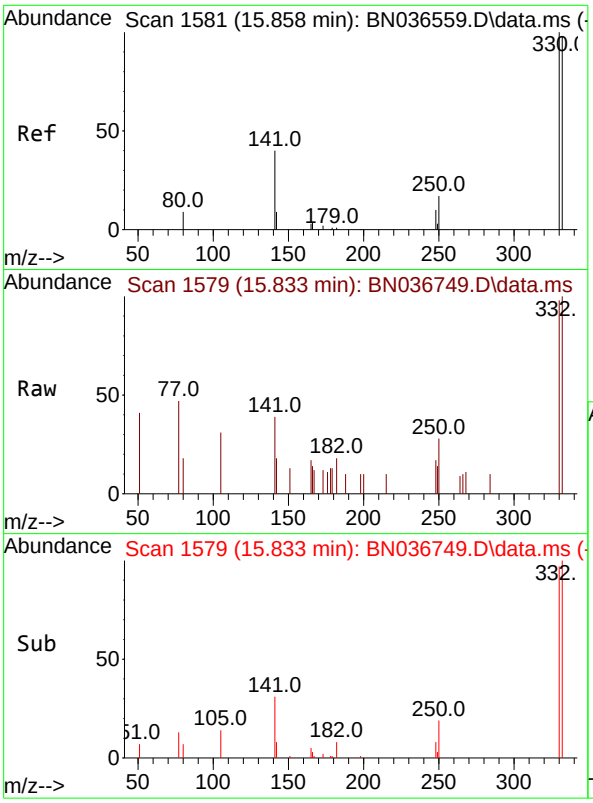


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Tgt Ion:164 Resp: 2953

Ion	Ratio	Lower	Upper
164	100		
162	107.3	84.2	126.2
160	54.3	42.2	63.2



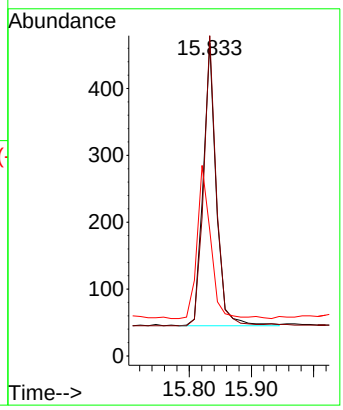


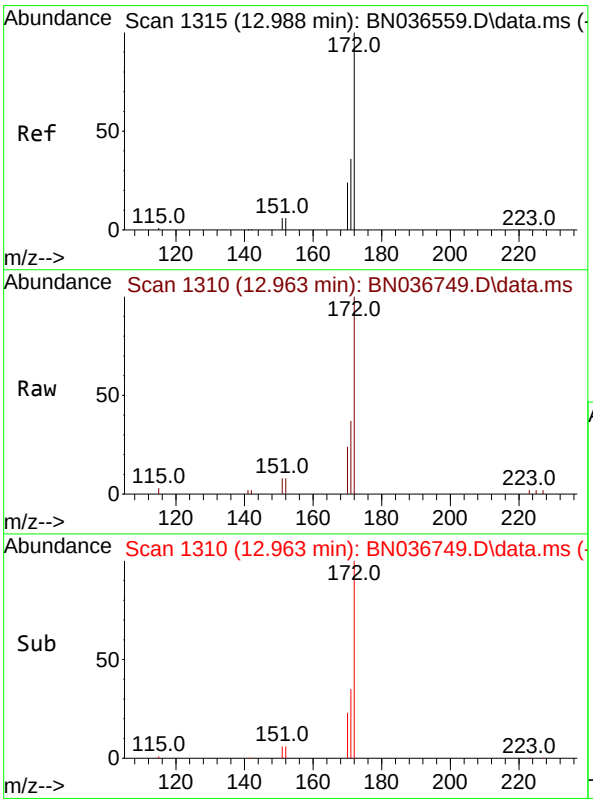
#14
2,4,6-Tribromophenol
Concen: 0.465 ng
RT: 15.833 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Tgt Ion:330 Resp: 623

Ion	Ratio	Lower	Upper
330	100		
332	97.8	75.2	112.8
141	57.0	43.4	65.2

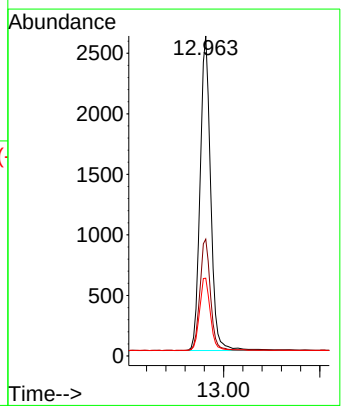


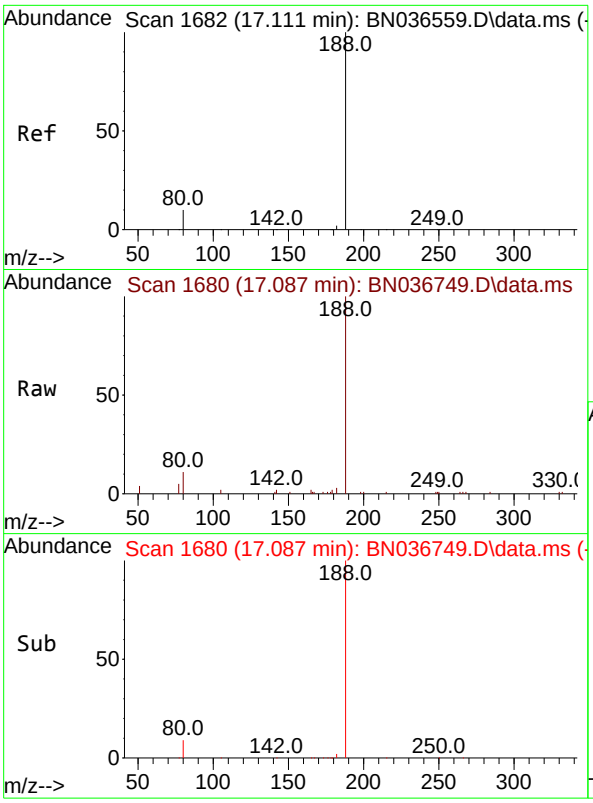


#15
2-Fluorobiphenyl
Concen: 0.312 ng
RT: 12.963 min Scan# 1310
Delta R.T. -0.025 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Tgt Ion:172 Resp: 5365

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	24.3	20.2	30.4



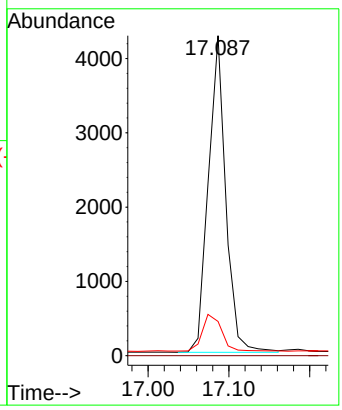


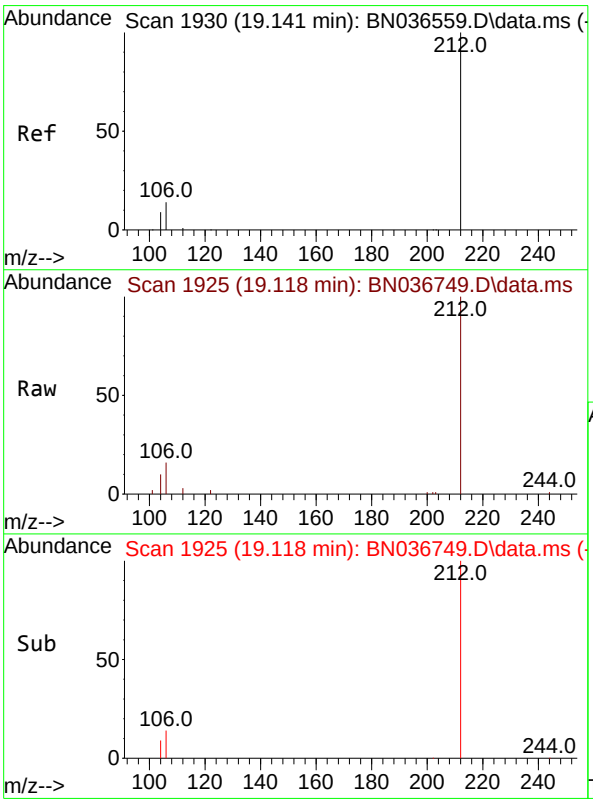
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Tgt Ion:188 Resp: 6367

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.7	8.8	13.2

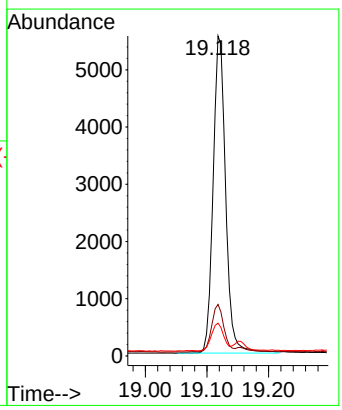


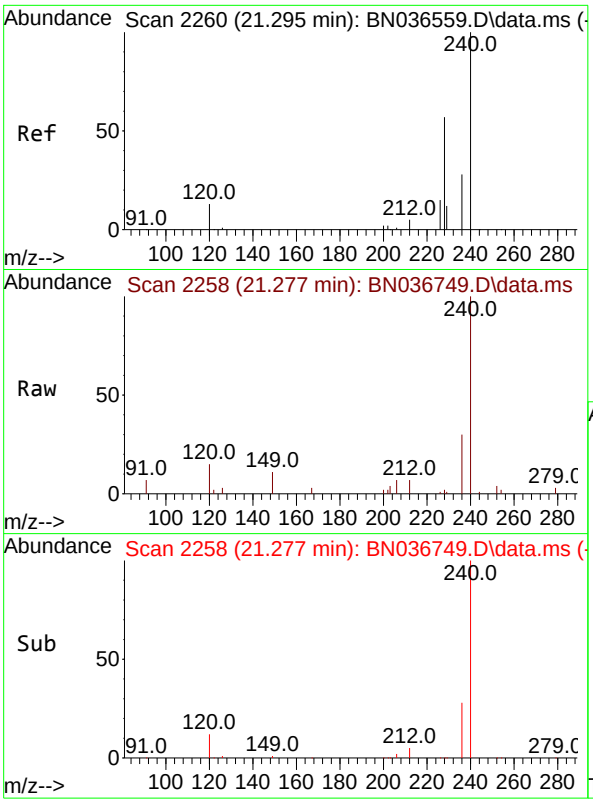


#27
Fluoranthene-d10
Concen: 0.480 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Tgt Ion:212 Resp: 7825

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.8	17.6
104	8.4	7.3	10.9



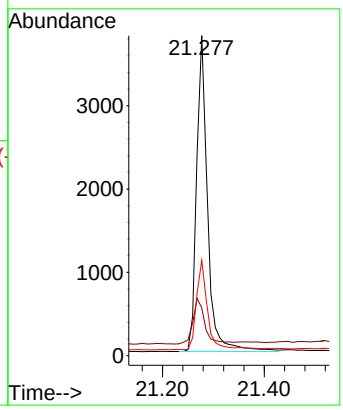


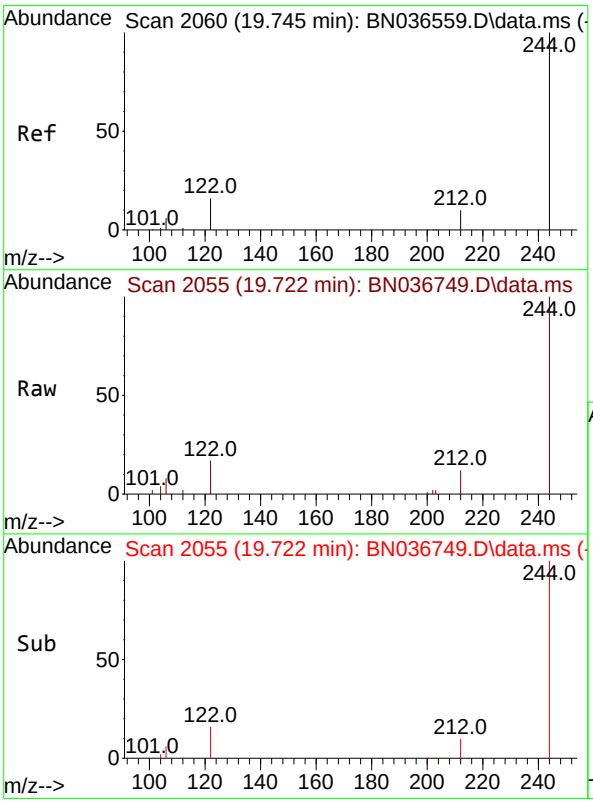
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Tgt Ion:240 Resp: 5663

Ion	Ratio	Lower	Upper
240	100		
120	14.9	14.6	22.0
236	29.8	24.1	36.1

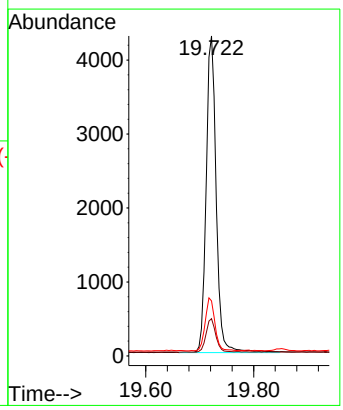


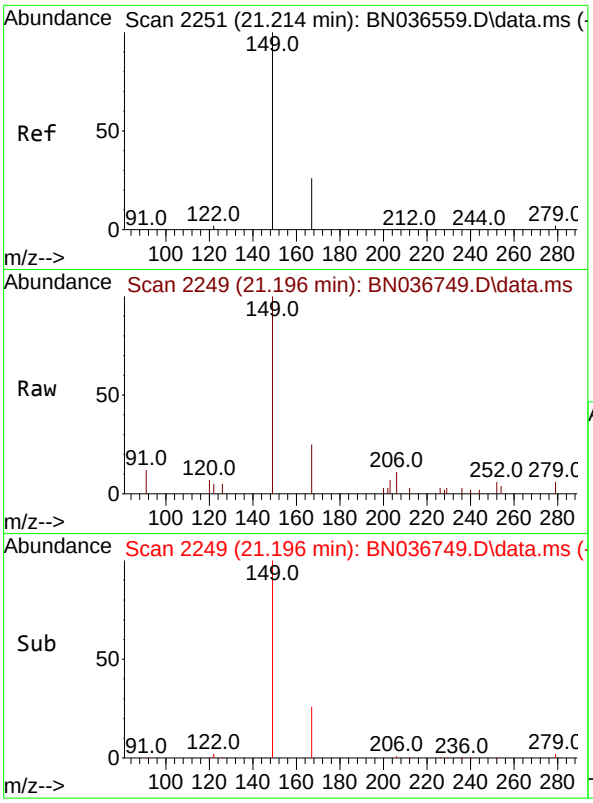


#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Tgt Ion:244 Resp: 5510

Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.6	14.4
122	17.2	13.9	20.9



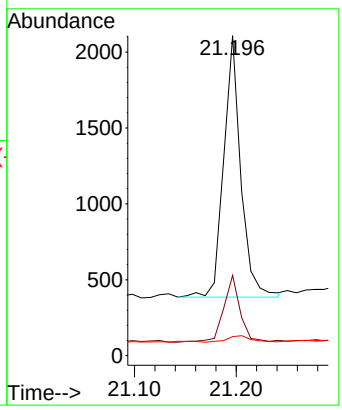


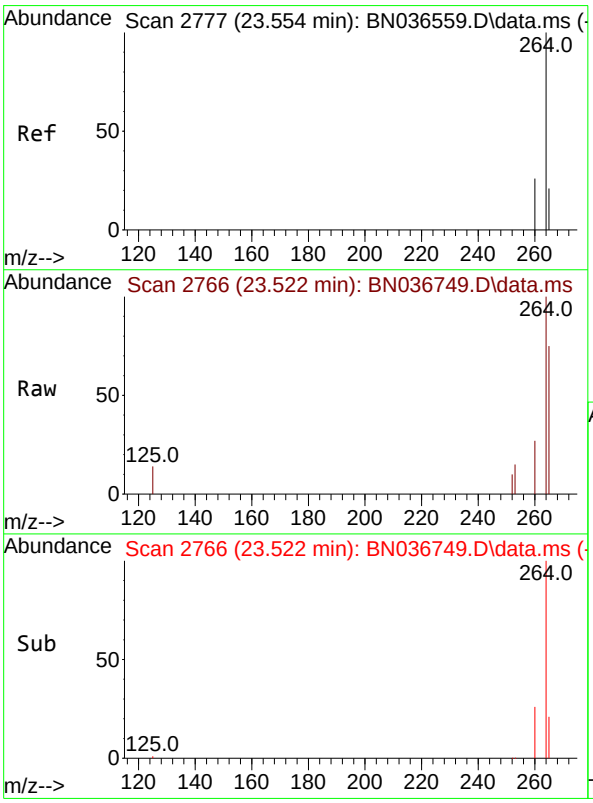
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.143 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE132D4-20250318

Tgt Ion:149 Resp: 2009

Ion	Ratio	Lower	Upper
149	100		
167	25.0	20.7	31.1
279	3.5	3.6	5.4#

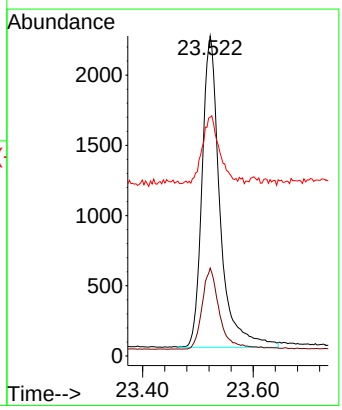




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2766
Delta R.T. -0.032 min
Lab File: BN036749.D
Acq: 27 Mar 2025 22:15

Tgt Ion:264 Resp: 4996

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.6	33.8
265	74.6	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D5-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-17	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036750.D	1	03/20/25 10:49	03/27/25 22:51	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.70	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		55 - 111		59%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1590	7.703				
1146-65-2	Naphthalene-d8	3890	10.487				
15067-26-2	Acenaphthene-d10	2370	14.345				
1517-22-2	Phenanthrene-d10	5420	17.086				
1719-03-5	Chrysene-d12	4980	21.277				
1520-96-3	Perylene-d12	4460	23.522				

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\BN032725\
Data File : BN036750.D
Acq On : 27 Mar 2025 22:51
Operator : RC/JU
Sample : Q1608-17
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Quant Time: Mar 28 00:59:06 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

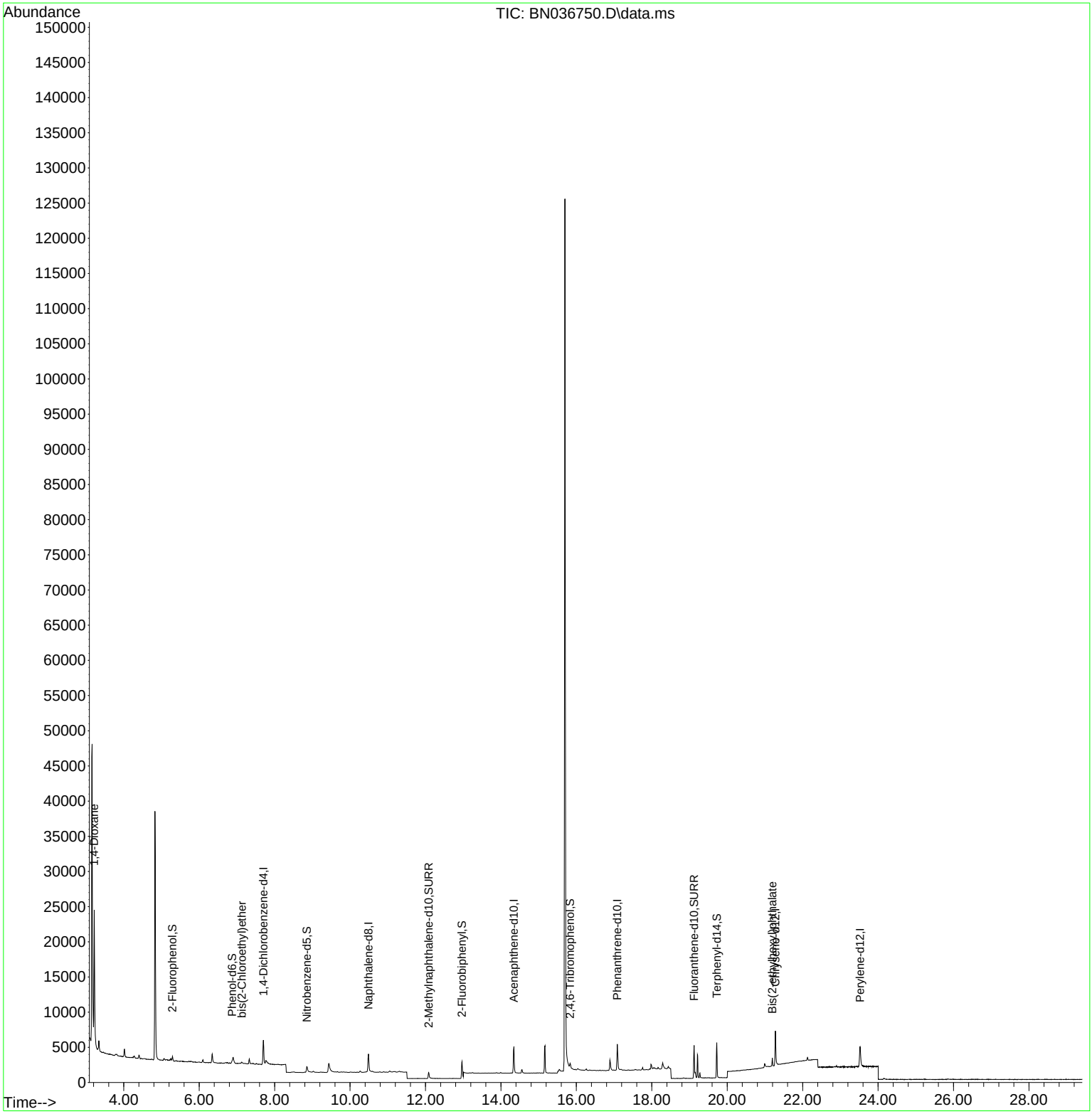
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1585	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3885	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2369	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5421	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4977	0.400	ng	-0.02
35) Perylene-d12	23.522	264	4460	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	455	0.123	ng	-0.02
5) Phenol-d6	6.872	99	340	0.075	ng	-0.03
8) Nitrobenzene-d5	8.854	82	999	0.236	ng	-0.02
11) 2-Methylnaphthalene-d10	12.085	152	1563	0.270	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	388	0.361	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	3673	0.267	ng	-0.02
27) Fluoranthene-d10	19.122	212	5673	0.408	ng	-0.02
31) Terphenyl-d14	19.722	244	4849	0.407	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	10029	5.704	ng	97
6) bis(2-Chloroethyl)ether	7.132	93	130	0.028	ng	# 86
34) Bis(2-ethylhexyl)phtha...	21.196	149	1041	0.084	ng	98

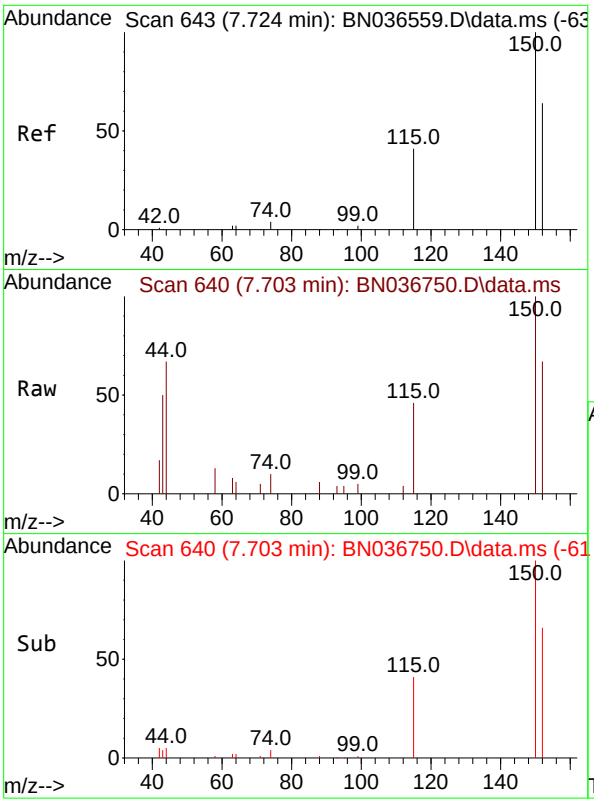
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036750.D
Acq On : 27 Mar 2025 22:51
Operator : RC/JU
Sample : Q1608-17
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Quant Time: Mar 28 00:59:06 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



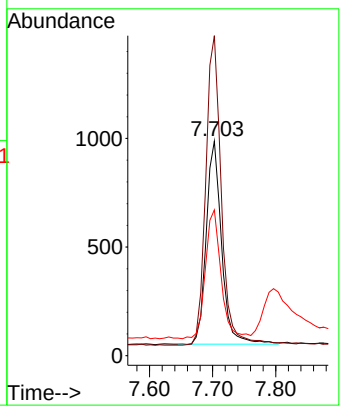


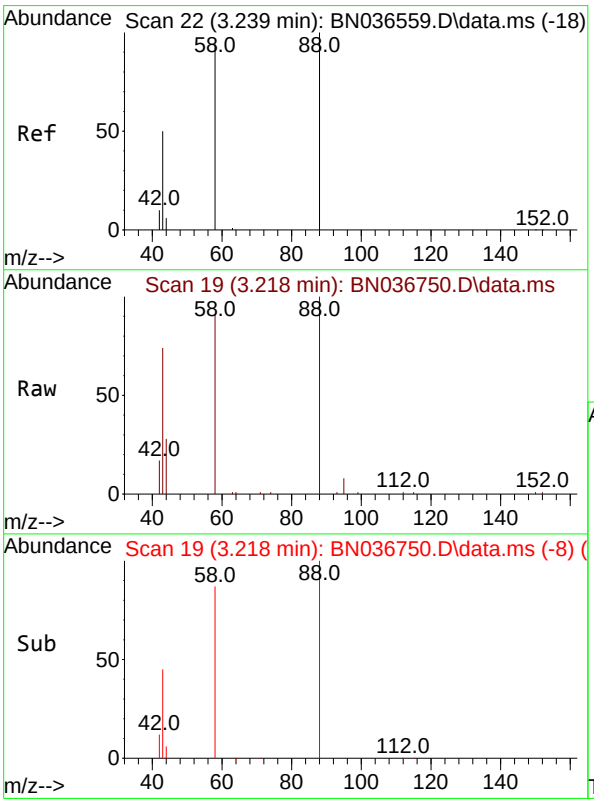
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion:152 Resp: 1585

Ion	Ratio	Lower	Upper
152	100		
150	149.1	123.7	185.5
115	67.9	54.3	81.5

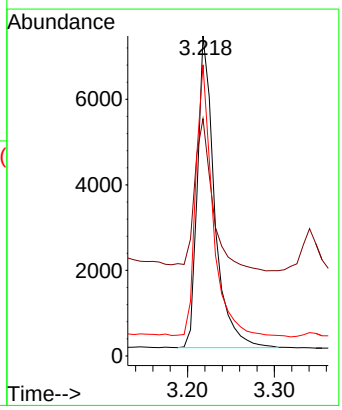


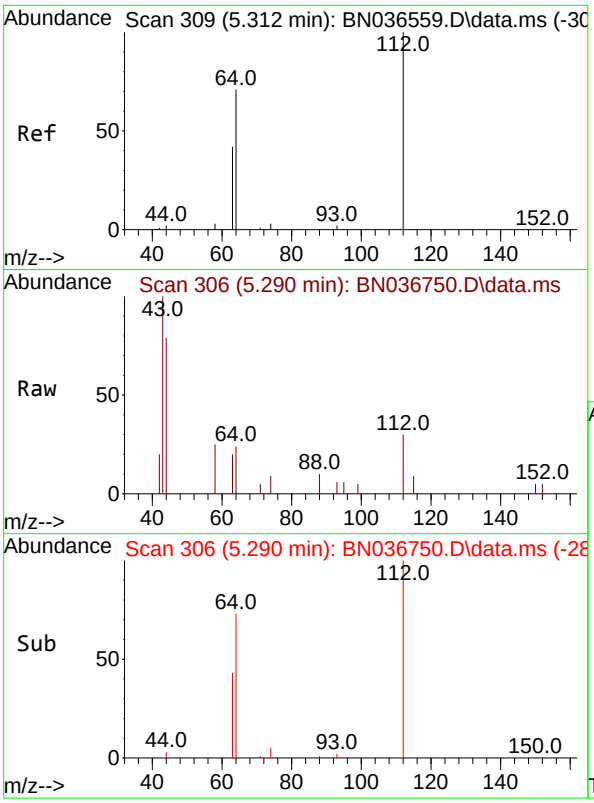


#2
1,4-Dioxane
Concen: 5.704 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Tgt Ion: 88 Resp: 10029

Ion	Ratio	Lower	Upper
88	100		
43	51.8	37.8	56.8
58	84.9	67.4	101.2



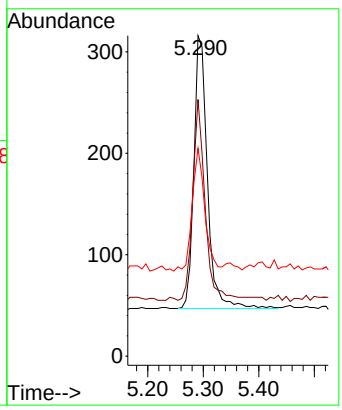


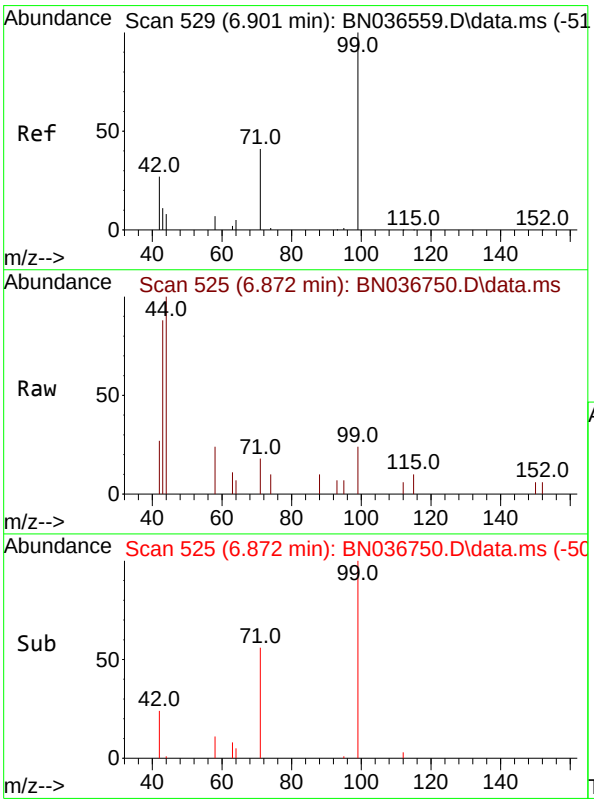
#4
2-Fluorophenol
Concen: 0.123 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion:112 Resp: 455

Ion	Ratio	Lower	Upper
112	100		
64	67.3	53.1	79.7
63	41.5	31.8	47.8

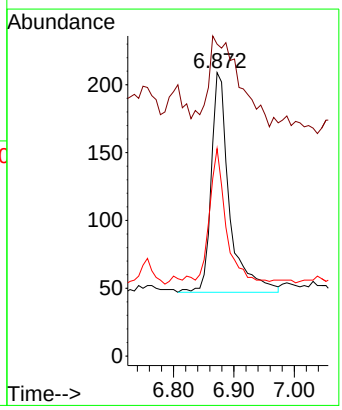


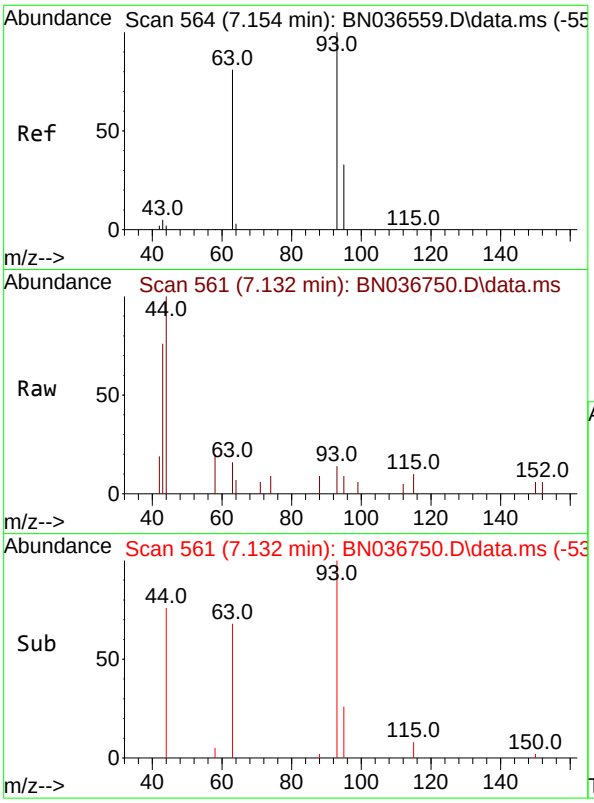


#5
Phenol-d6
Concen: 0.075 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Tgt Ion: 99 Resp: 340

Ion	Ratio	Lower	Upper
99	100		
42	67.6	26.5	39.7#
71	55.0	34.1	51.1#



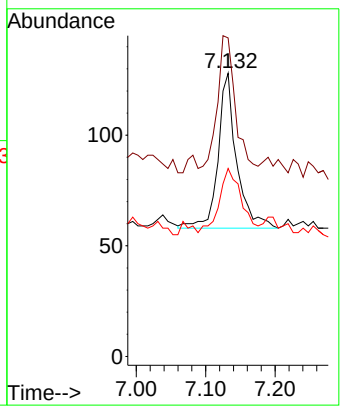


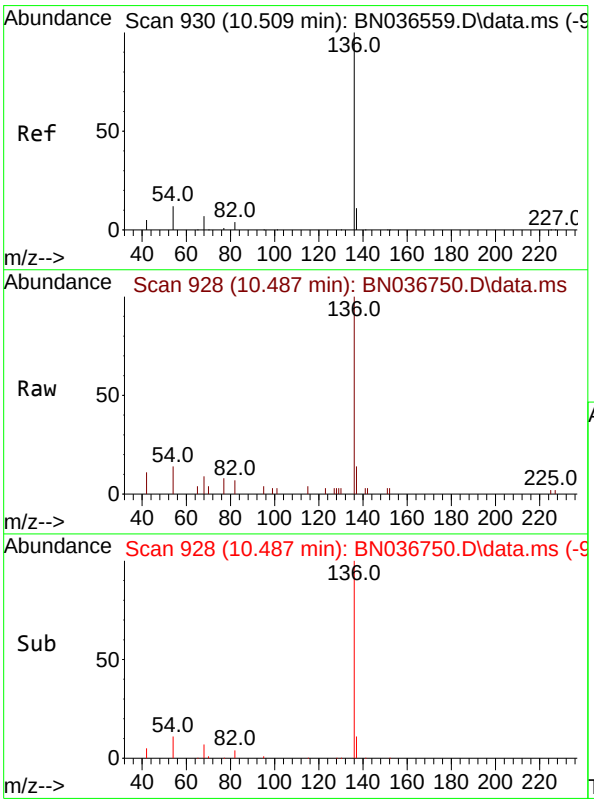
#6
bis(2-Chloroethyl)ether
Concen: 0.028 ng
RT: 7.132 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion: 93 Resp: 130

Ion	Ratio	Lower	Upper
93	100		
63	90.0	67.7	101.5
95	52.3	25.6	38.4#

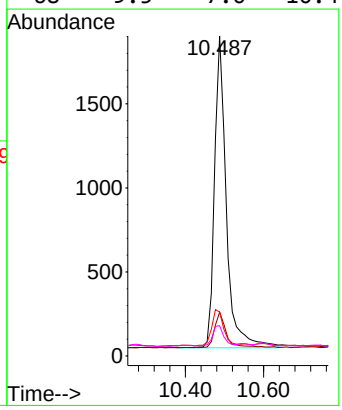


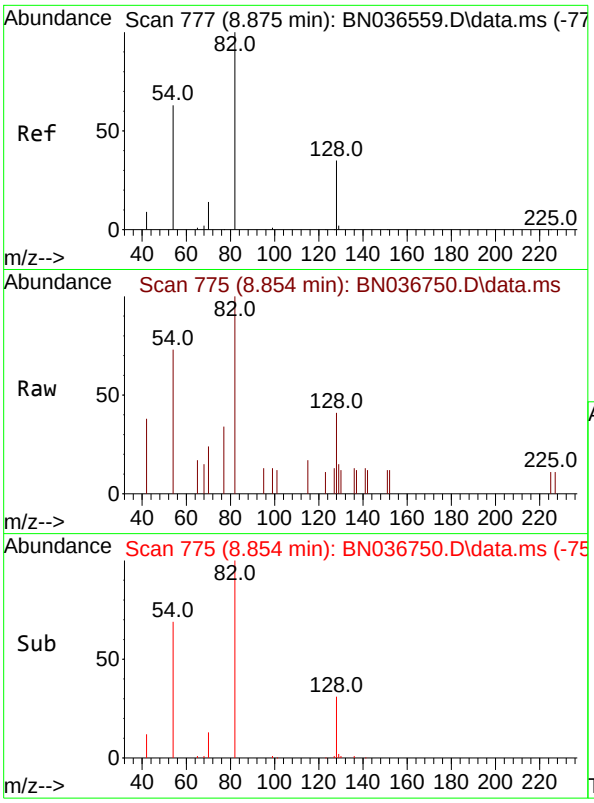


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Tgt Ion:136 Resp: 3885

Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.3	15.5
54	13.7	11.5	17.3
68	9.5	7.0	10.4



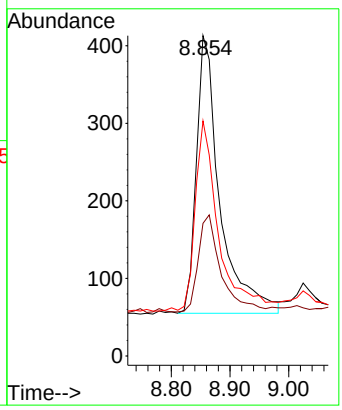


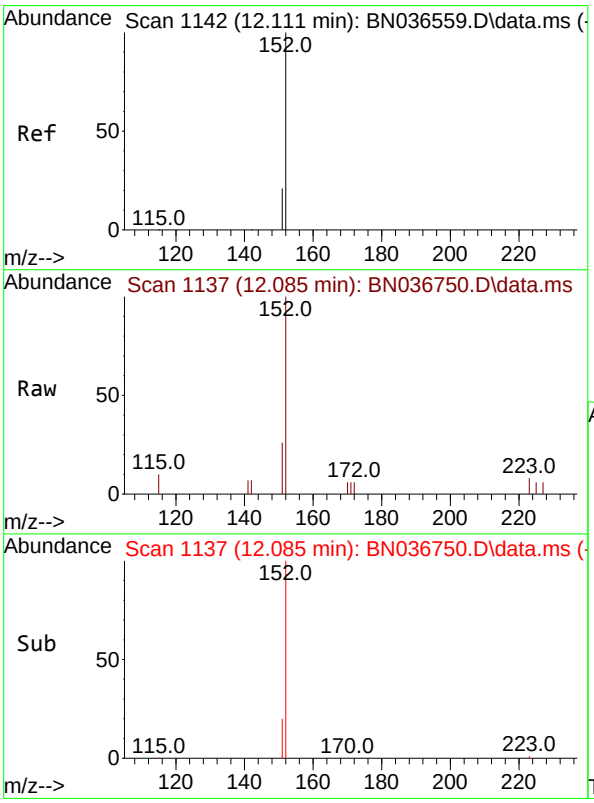
#8
Nitrobenzene-d5
Concen: 0.236 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion: 82 Resp: 999

Ion	Ratio	Lower	Upper
82	100		
128	41.4	30.6	45.8
54	73.4	52.2	78.4

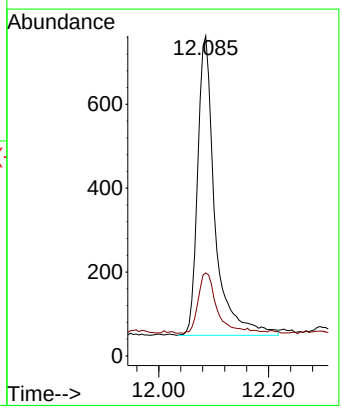


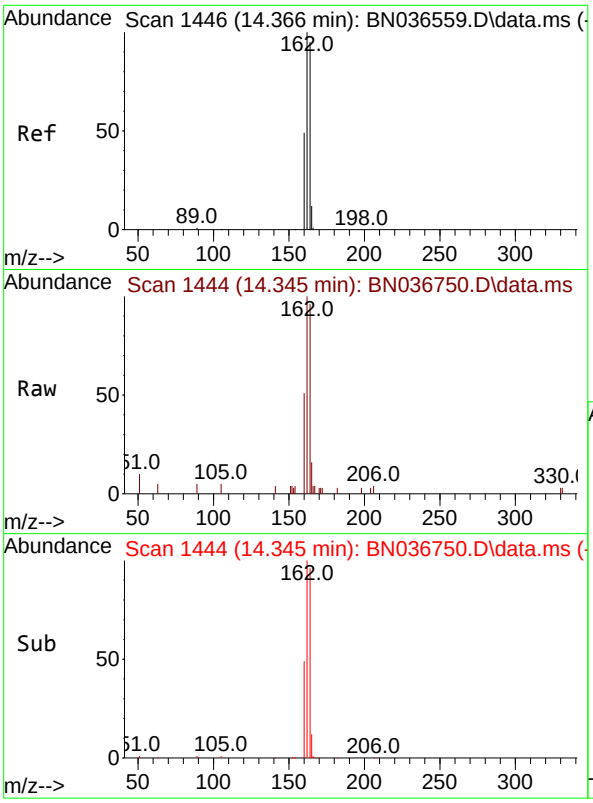


#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.025 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Tgt Ion:152 Resp: 1563

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6



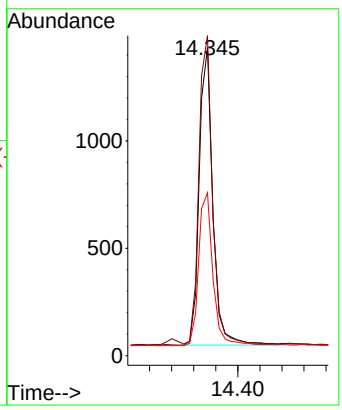


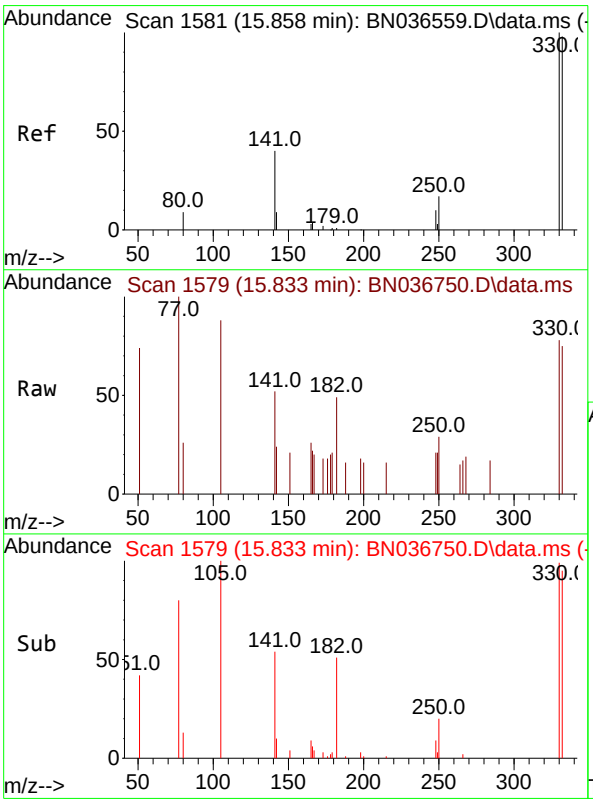
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion:164 Resp: 2369

Ion	Ratio	Lower	Upper
164	100		
162	103.9	84.2	126.2
160	52.9	42.2	63.2

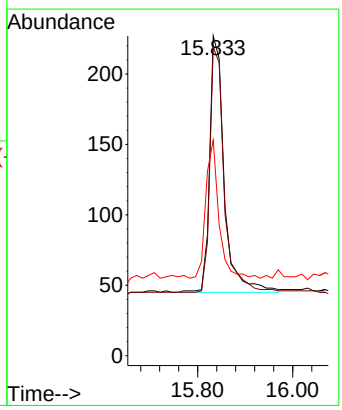


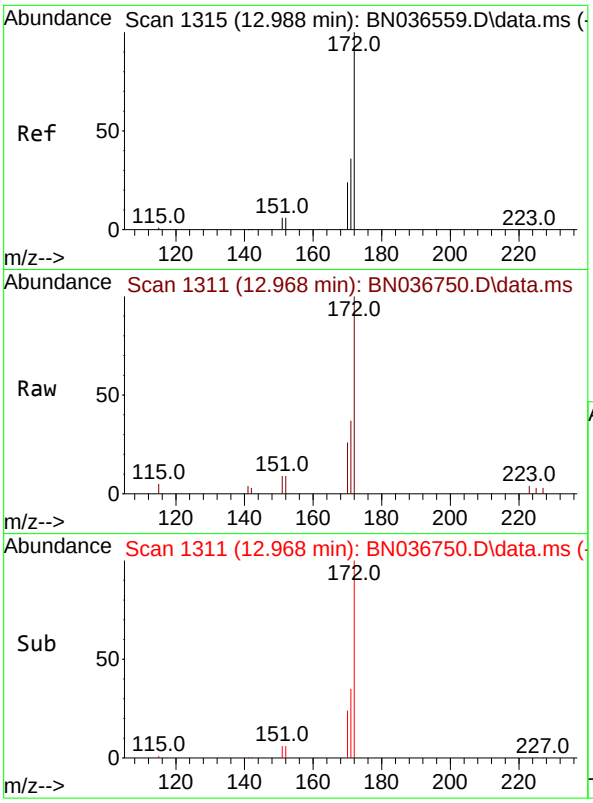


#14
2,4,6-Tribromophenol
Concen: 0.361 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Tgt Ion:330 Resp: 388

Ion	Ratio	Lower	Upper
330	100		
332	93.8	75.2	112.8
141	48.5	43.4	65.2



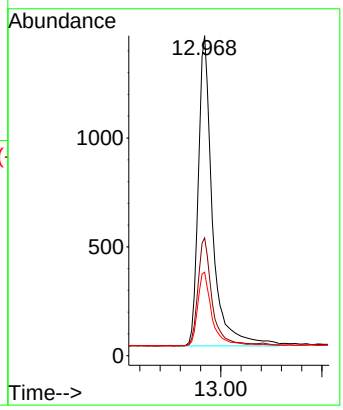


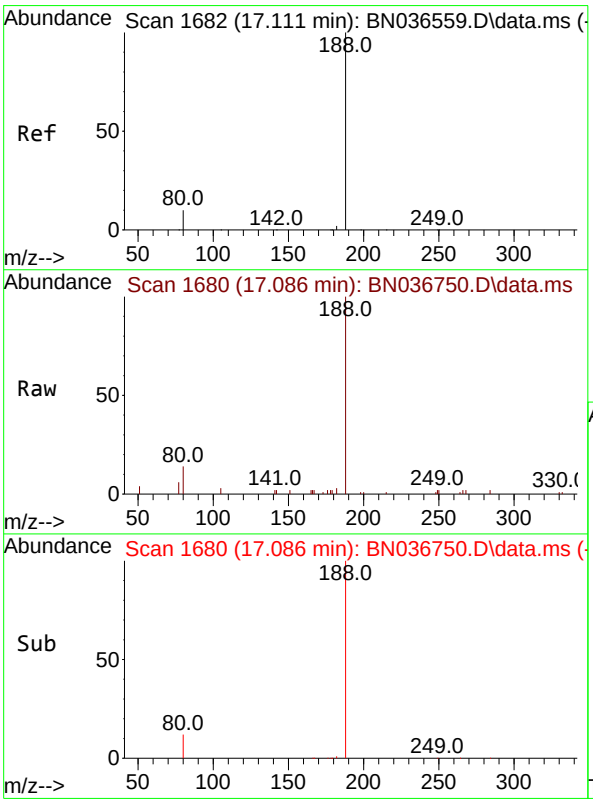
#15
2-Fluorobiphenyl
Concen: 0.267 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion:172 Resp: 3673

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.5	44.3
170	26.1	20.2	30.4

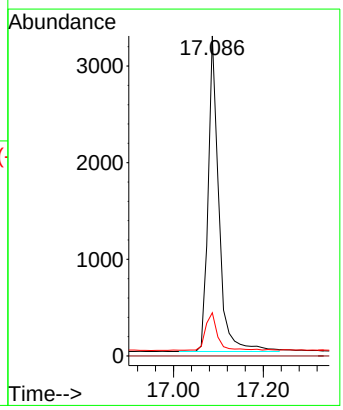


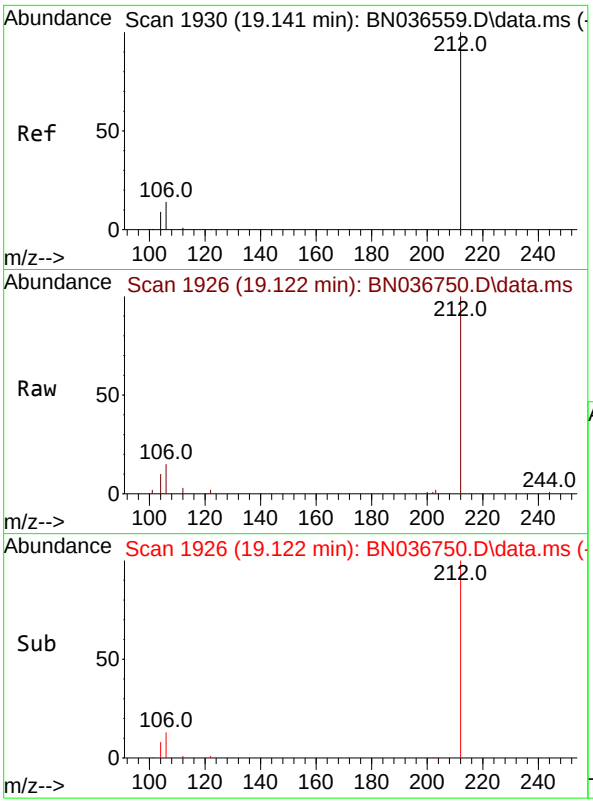


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Tgt Ion:188 Resp: 5421

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.5	8.8	13.2#



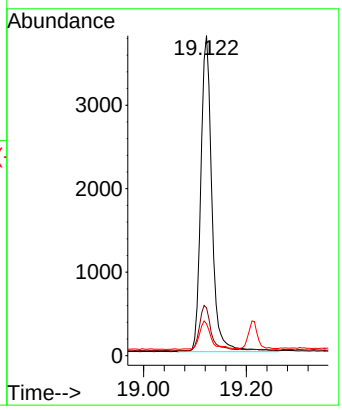


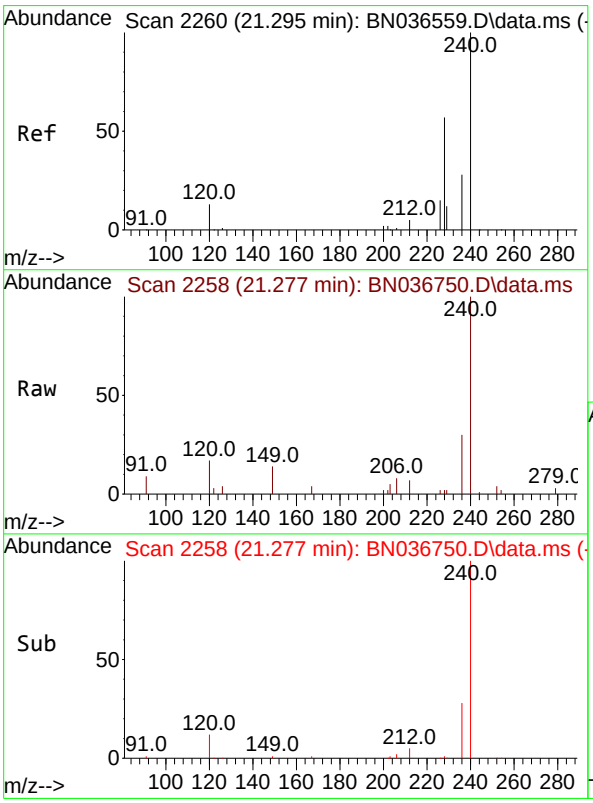
#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion:212 Resp: 5673

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.0	7.3	10.9

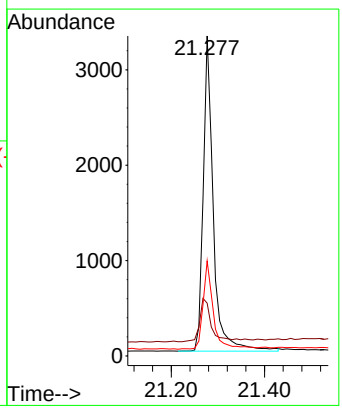


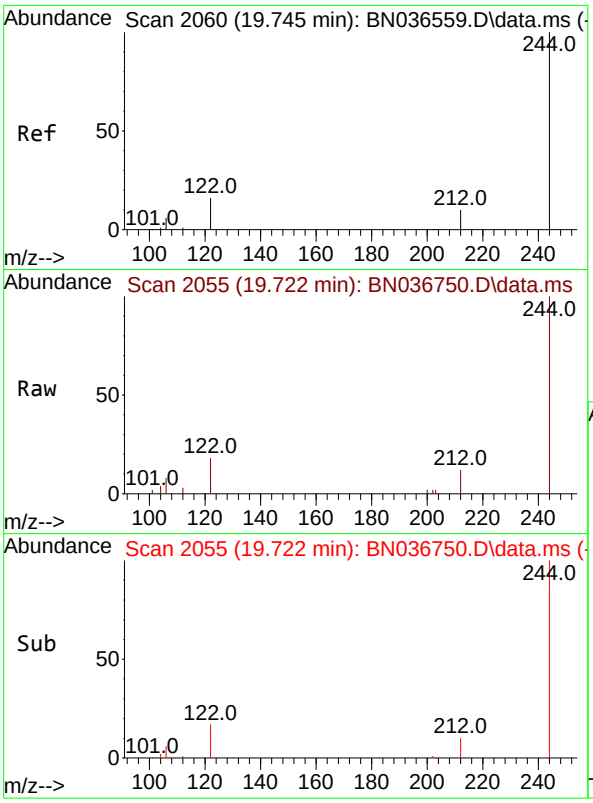


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Tgt Ion:240 Resp: 4977

Ion	Ratio	Lower	Upper
240	100		
120	16.5	14.6	22.0
236	29.7	24.1	36.1



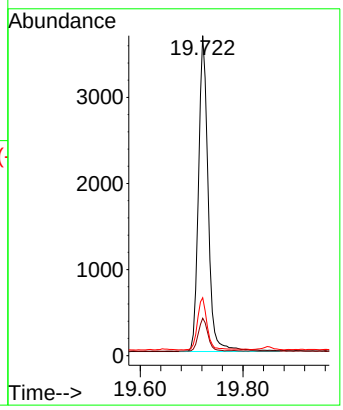


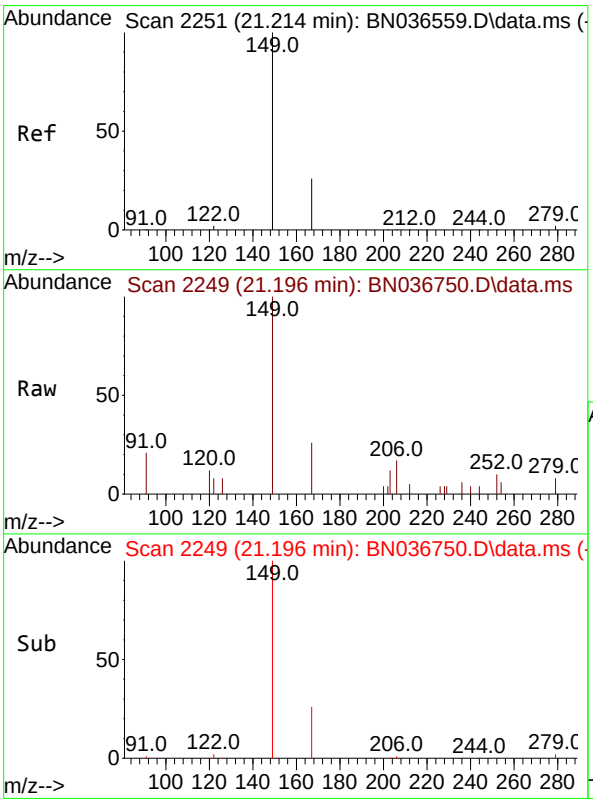
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion:244 Resp: 4849

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	18.1	13.9	20.9

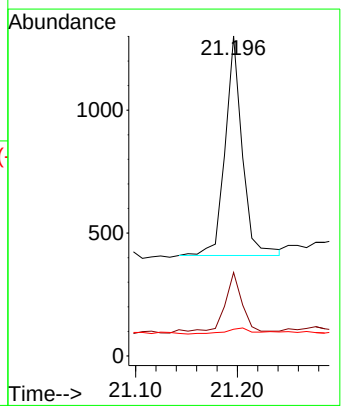


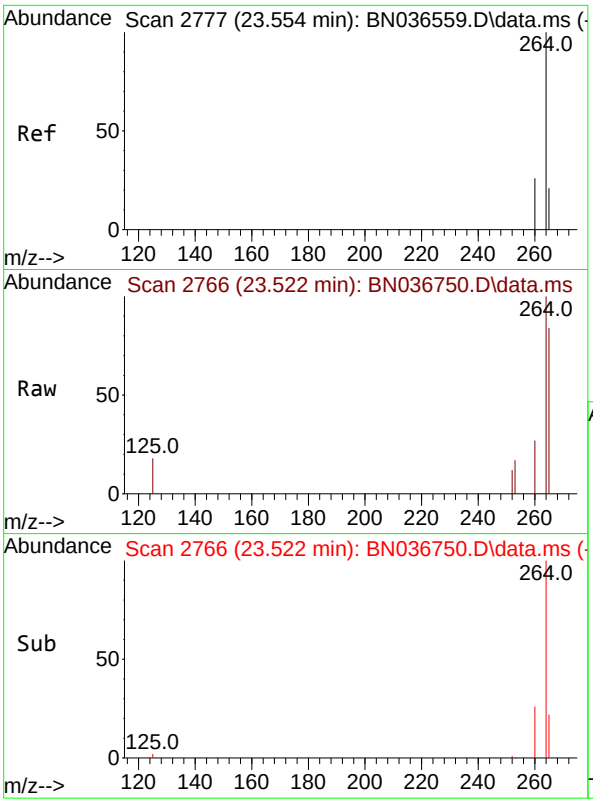


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.084 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Tgt Ion:149 Resp: 1041

Ion	Ratio	Lower	Upper
149	100		
167	25.0	20.7	31.1
279	4.2	3.6	5.4



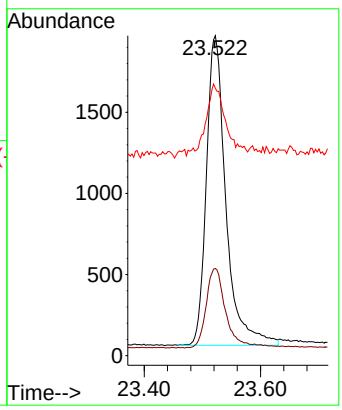


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036750.D
Acq: 27 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318

Tgt Ion:264 Resp: 4460

Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.6	33.8
265	83.6	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D5-20250318DL	SDG No.:	Q1608
Lab Sample ID:	Q1608-17DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036778.D	2	03/20/25 10:49	03/28/25 18:14	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.10	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		55 - 111		60%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		62%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		109%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1470	7.696				
1146-65-2	Naphthalene-d8	3310	10.487				
15067-26-2	Acenaphthene-d10	2290	14.334				
1517-22-2	Phenanthrene-d10	5170	17.086				
1719-03-5	Chrysene-d12	4190	21.277				
1520-96-3	Perylene-d12	3840	23.519				

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\BN032825\
Data File : BN036778.D
Acq On : 28 Mar 2025 18:14
Operator : RC/JU
Sample : Q1608-17DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Quant Time: Mar 28 18:36:29 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

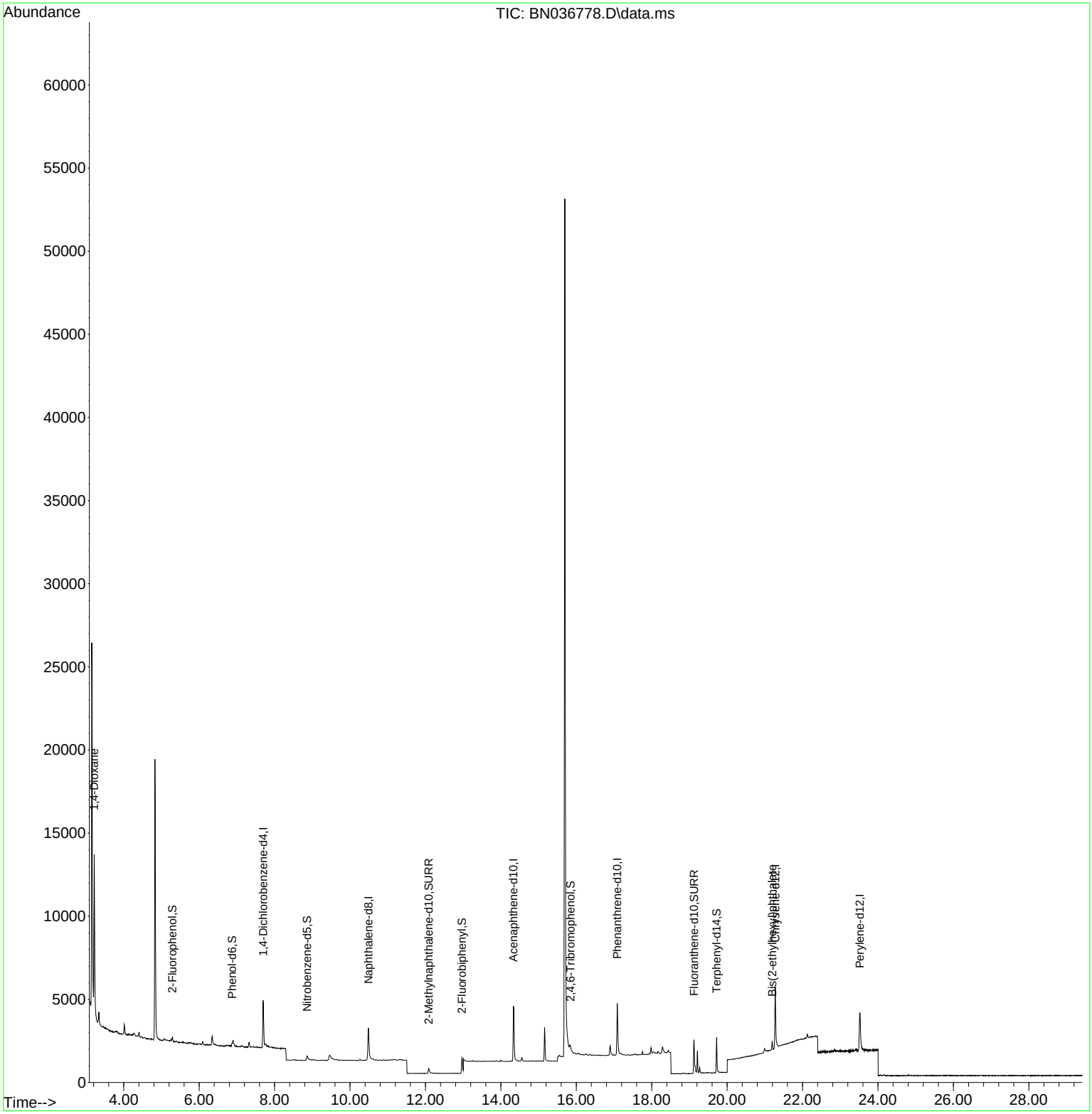
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1470	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3305	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2288	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5170	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4192	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3839	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	226	0.066	ng	-0.02
5) Phenol-d6	6.872	99	143	0.034	ng	-0.03
8) Nitrobenzene-d5	8.865	82	427	0.119	ng	-0.01
11) 2-Methylnaphthalene-d10	12.086	152	672	0.137	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	189	0.182	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	1648	0.124	ng	-0.02
27) Fluoranthene-d10	19.122	212	2604	0.197	ng	-0.02
31) Terphenyl-d14	19.722	244	2189	0.218	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	4993	3.062	ng	94
34) Bis(2-ethylhexyl)phtha...	21.196	149	572	0.055	ng	# 97

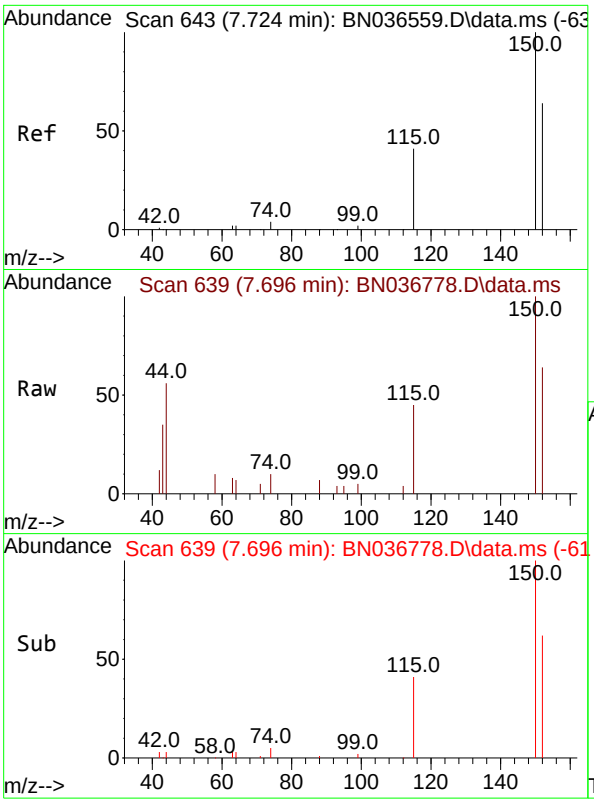
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036778.D
Acq On : 28 Mar 2025 18:14
Operator : RC/JU
Sample : Q1608-17DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Quant Time: Mar 28 18:36:29 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



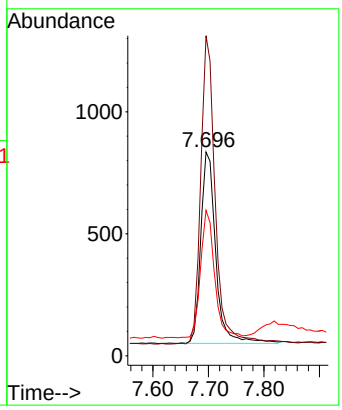


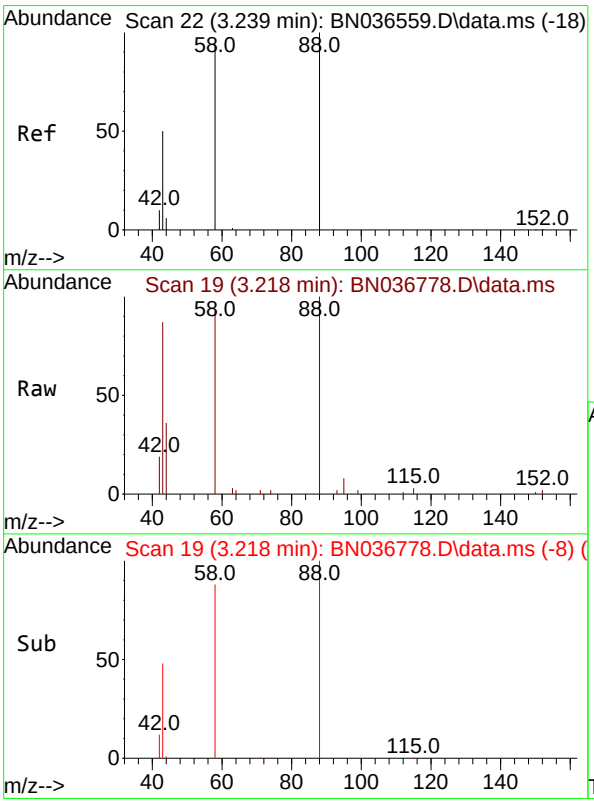
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Tgt Ion:152 Resp: 1470

Ion	Ratio	Lower	Upper
152	100		
150	157.1	123.7	185.5
115	71.4	54.3	81.5

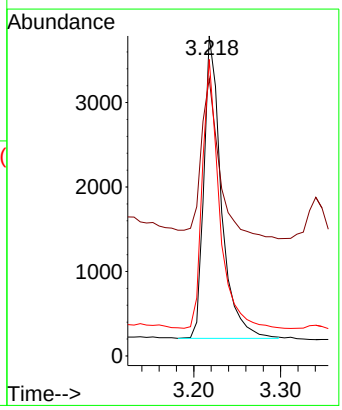


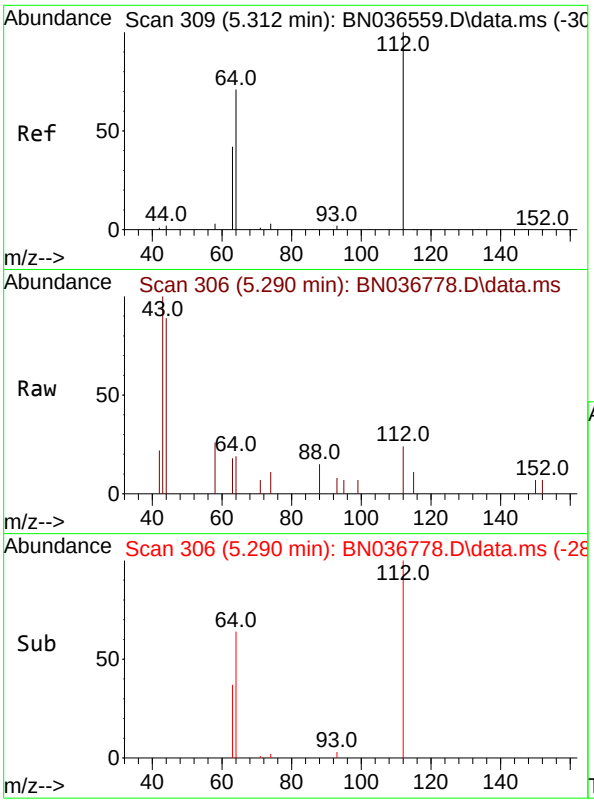


#2
1,4-Dioxane
Concen: 3.062 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Tgt Ion: 88 Resp: 4993

Ion	Ratio	Lower	Upper
88	100		
43	56.2	37.8	56.8
58	86.6	67.4	101.2



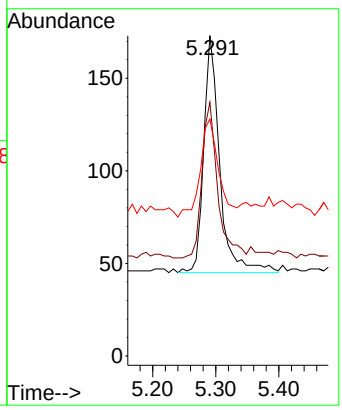


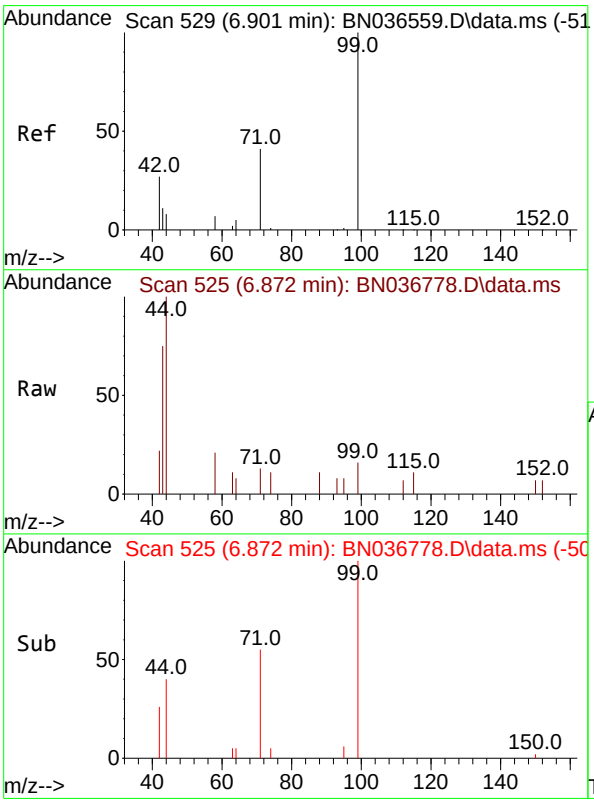
#4
2-Fluorophenol
Concen: 0.066 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Tgt Ion:112 Resp: 226

Ion	Ratio	Lower	Upper
112	100		
64	64.2	53.1	79.7
63	47.3	31.8	47.8

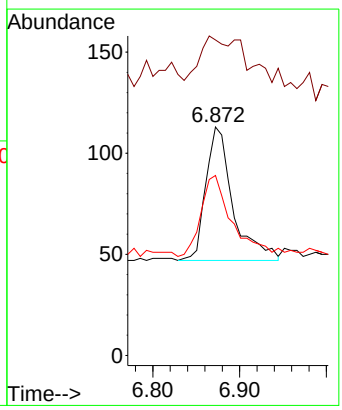


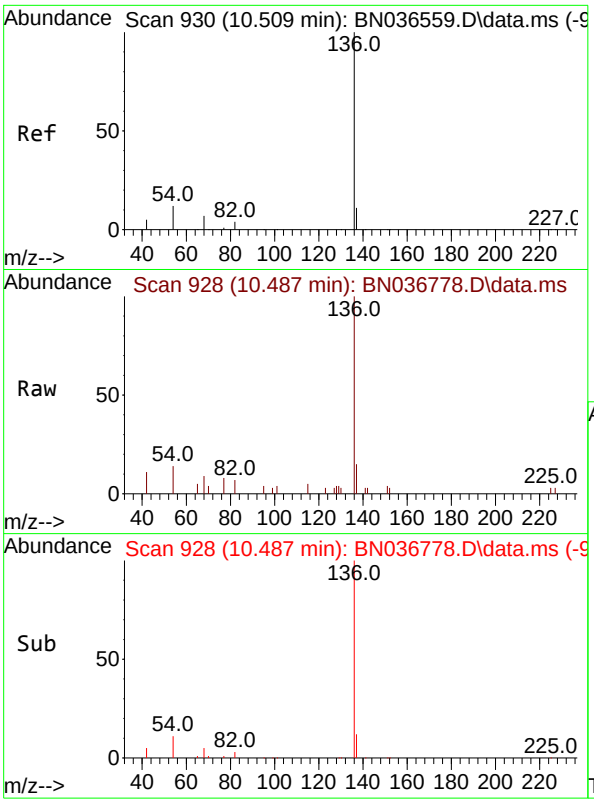


#5
Phenol-d6
Concen: 0.034 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Tgt Ion: 99 Resp: 143

Ion	Ratio	Lower	Upper
99	100		
42	31.5	26.5	39.7
71	72.0	34.1	51.1#



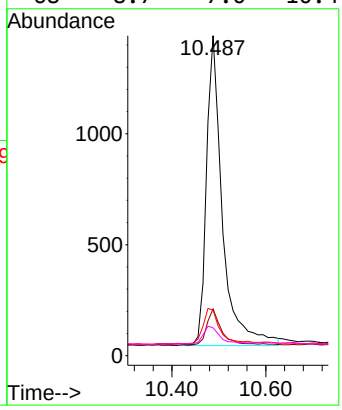


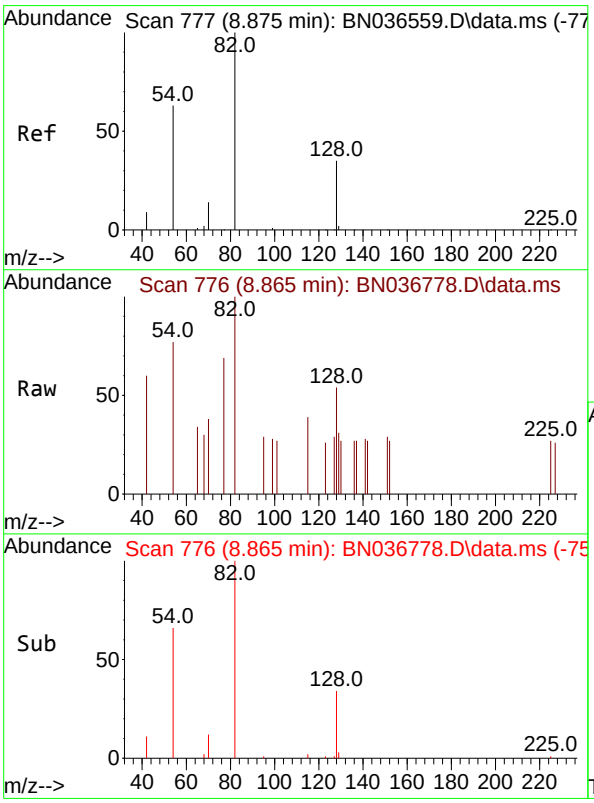
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Tgt Ion:136 Resp: 3305

Ion	Ratio	Lower	Upper
136	100		
137	14.6	10.3	15.5
54	14.3	11.5	17.3
68	8.7	7.0	10.4

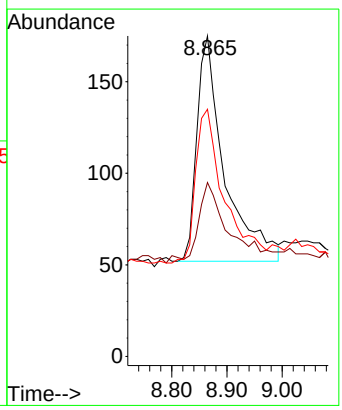


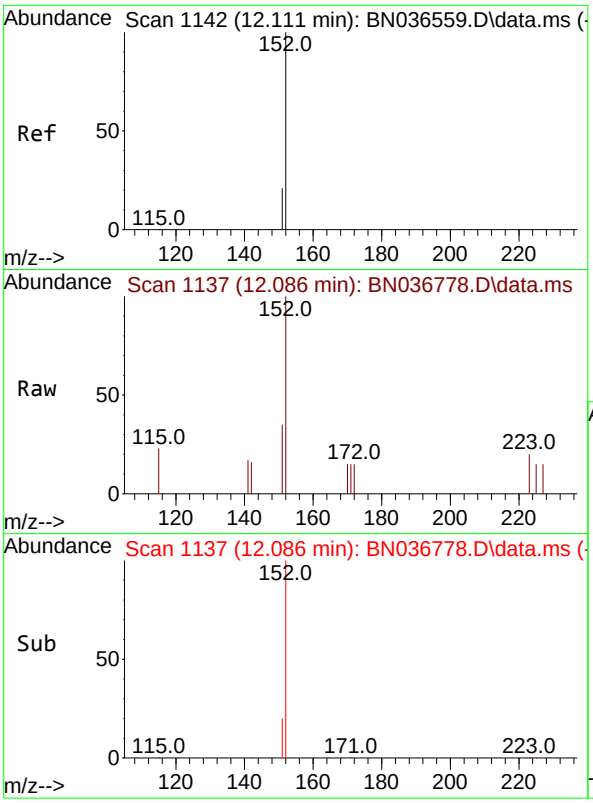


#8
Nitrobenzene-d5
Concen: 0.119 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Tgt Ion: 82 Resp: 427

Ion	Ratio	Lower	Upper
82	100		
128	54.3	30.6	45.8#
54	77.1	52.2	78.4



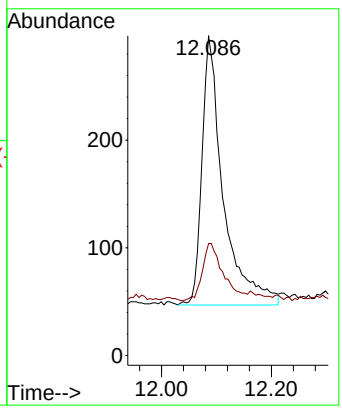


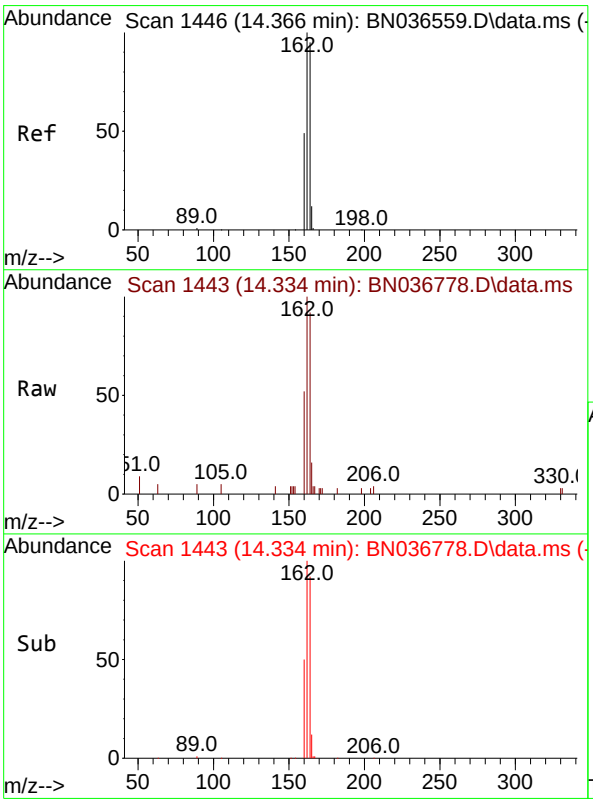
#11
2-Methylnaphthalene-d10
Concen: 0.137 ng
RT: 12.086 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Tgt Ion:152 Resp: 672

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

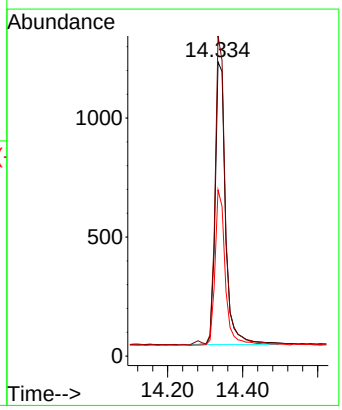


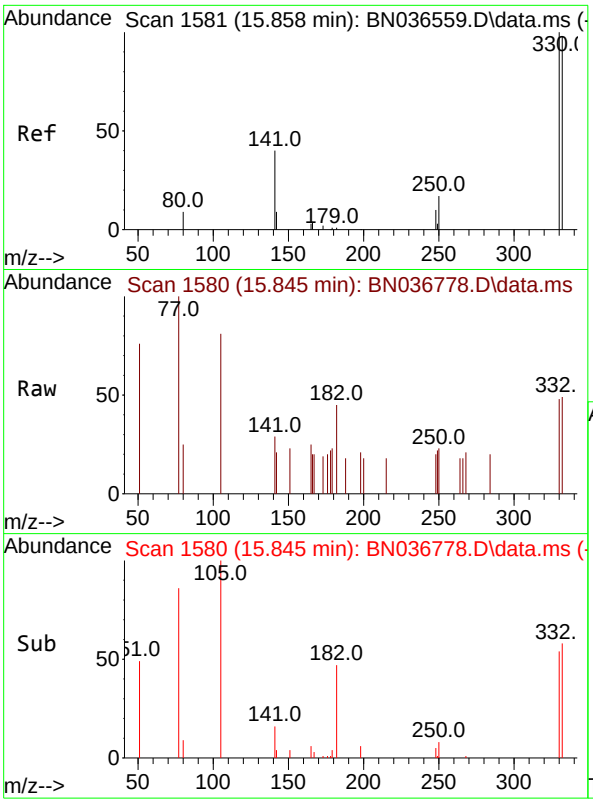


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Tgt Ion:164 Resp: 2288

Ion	Ratio	Lower	Upper
164	100		
162	108.8	84.2	126.2
160	56.5	42.2	63.2



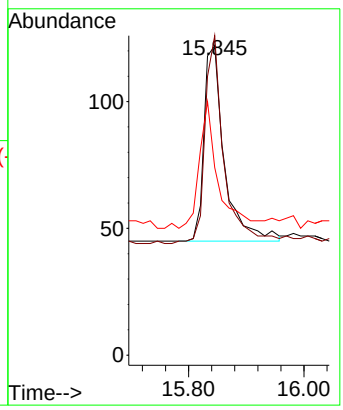


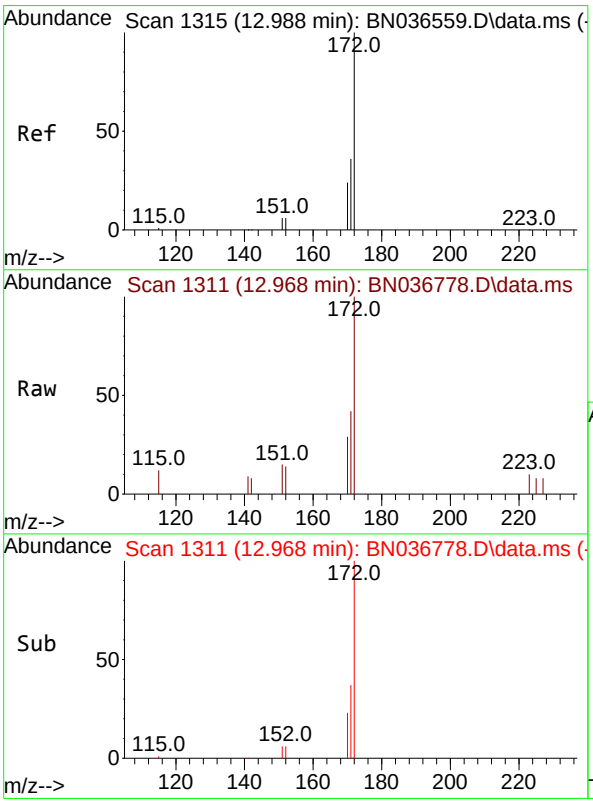
#14
2,4,6-Tribromophenol
Concen: 0.182 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Tgt Ion:330 Resp: 189

Ion	Ratio	Lower	Upper
330	100		
332	98.9	75.2	112.8
141	59.8	43.4	65.2

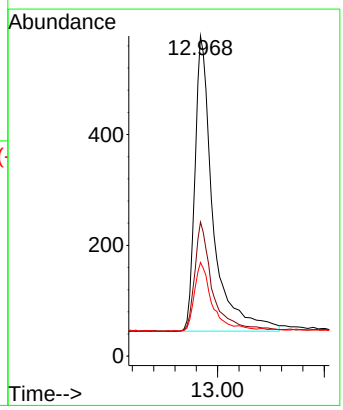


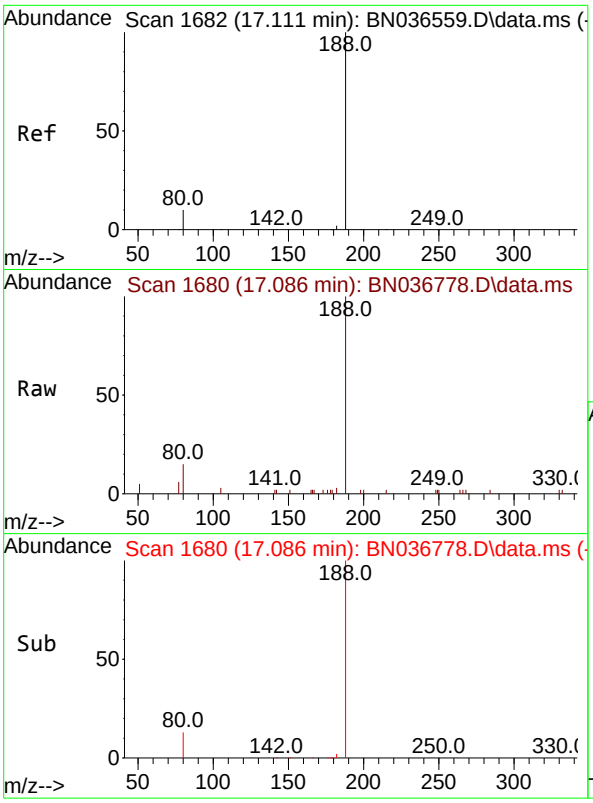


#15
2-Fluorobiphenyl
Concen: 0.124 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Tgt Ion:172 Resp: 1648

Ion	Ratio	Lower	Upper
172	100		
171	41.9	29.5	44.3
170	29.2	20.2	30.4



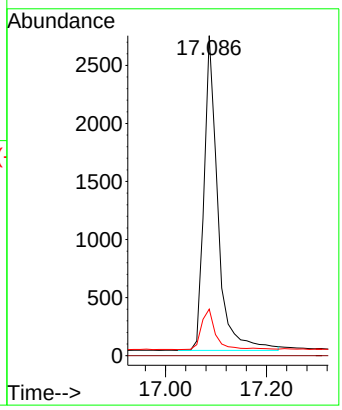


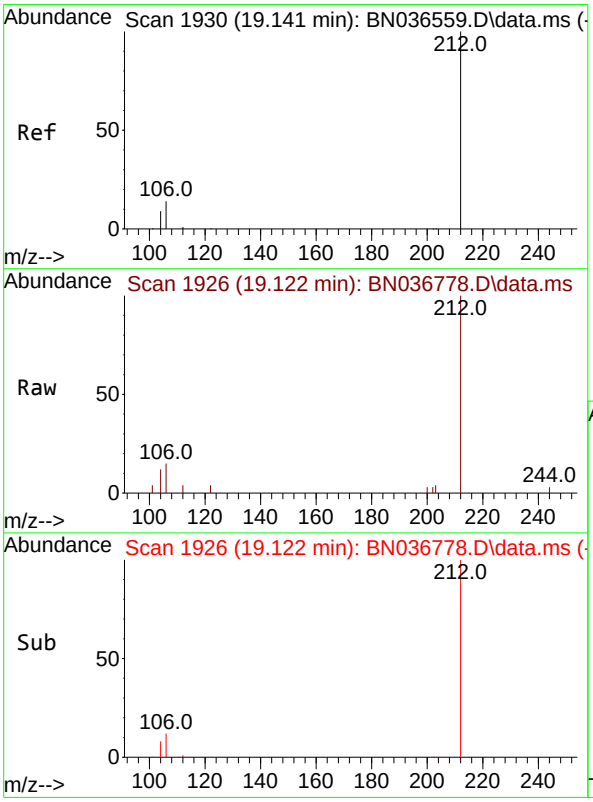
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Tgt Ion:188 Resp: 5170

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.6	8.8	13.2#

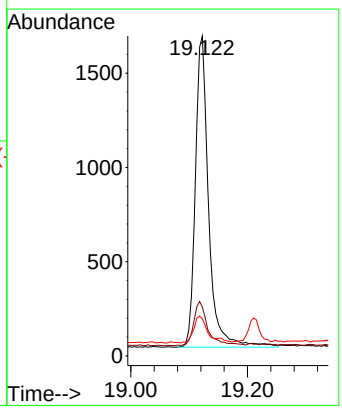


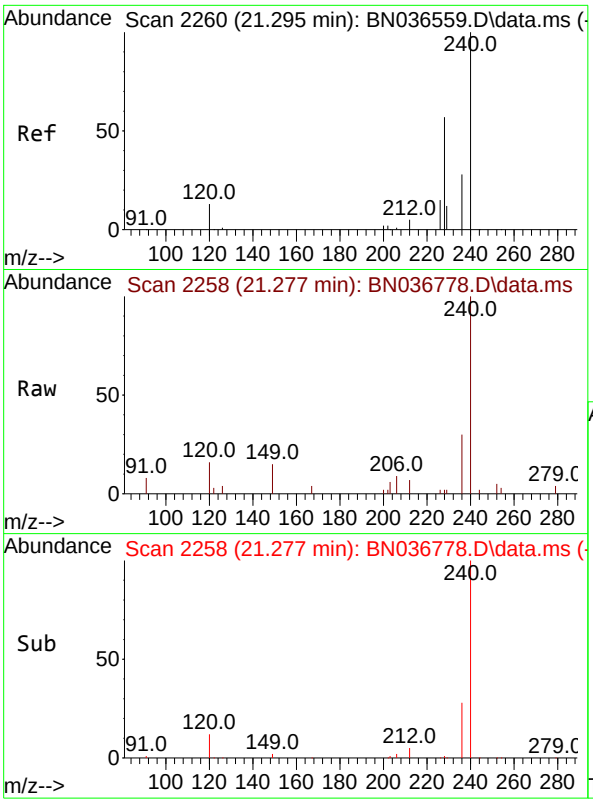


#27
Fluoranthene-d10
Concen: 0.197 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Tgt Ion:212 Resp: 2604

Ion	Ratio	Lower	Upper
212	100		
106	14.9	11.8	17.6
104	9.1	7.3	10.9



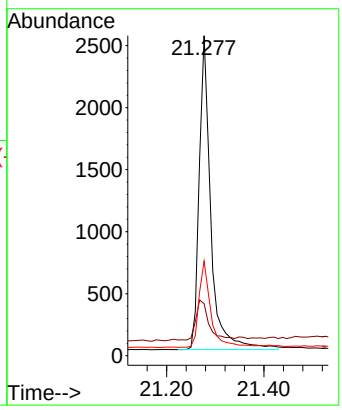


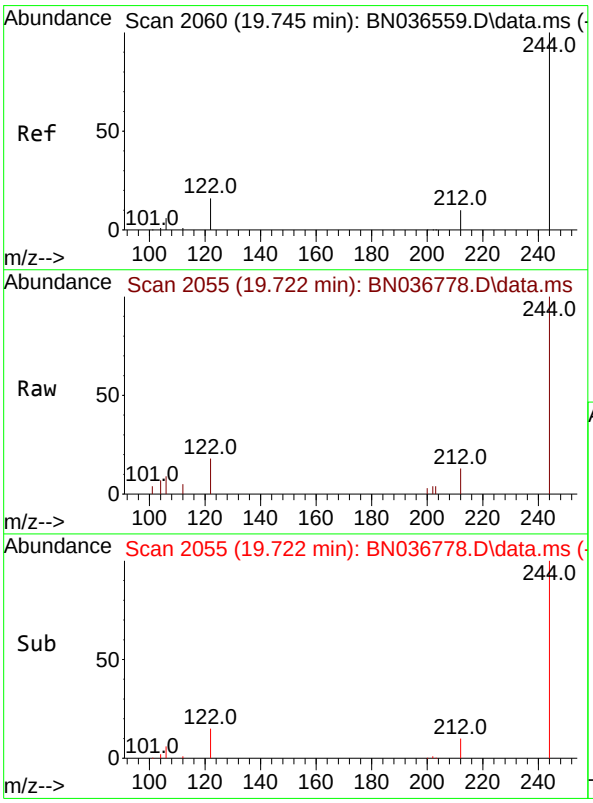
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Tgt Ion:240 Resp: 4192

Ion	Ratio	Lower	Upper
240	100		
120	16.3	14.6	22.0
236	29.6	24.1	36.1

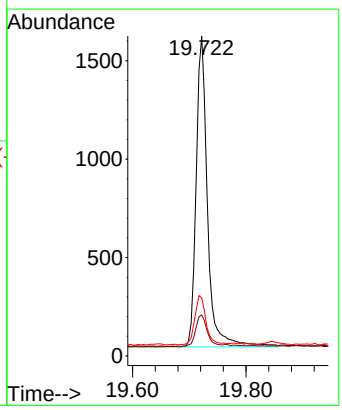


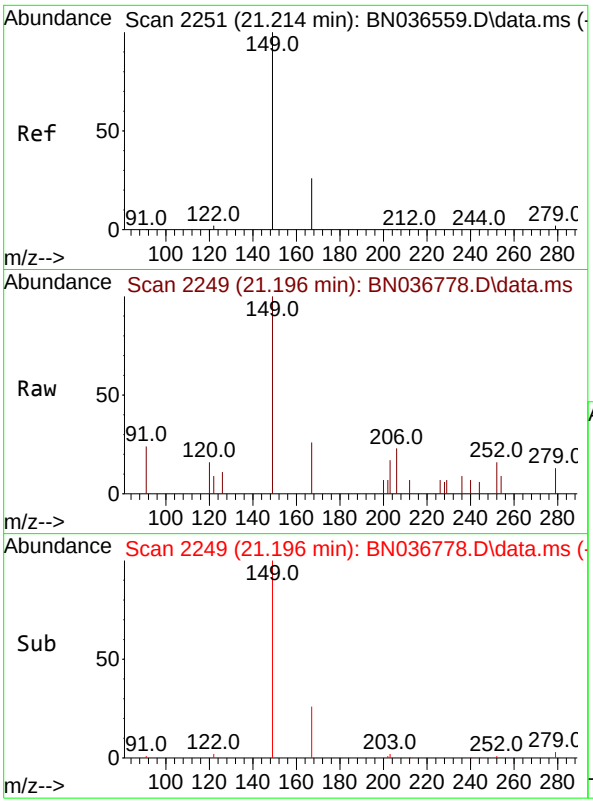


#31
Terphenyl-d14
Concen: 0.218 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Tgt Ion:244 Resp: 2189

Ion	Ratio	Lower	Upper
244	100		
212	12.8	9.6	14.4
122	18.1	13.9	20.9



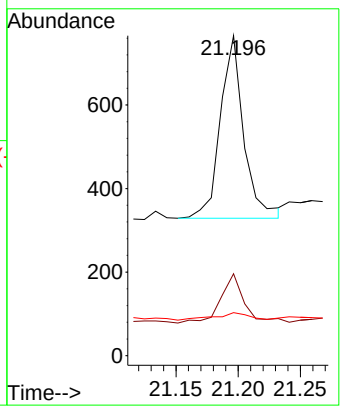


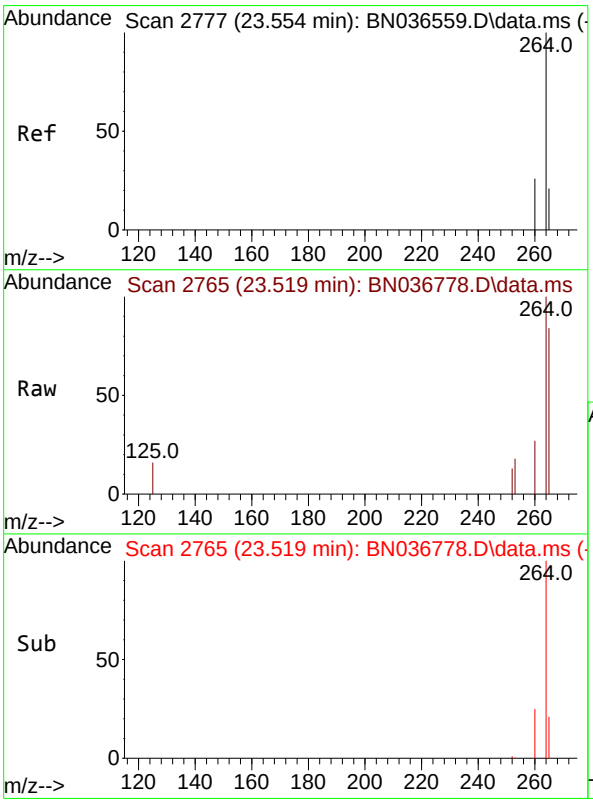
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.055 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Instrument :
BNA_N
ClientSampleId :
RE132D5-20250318DL

Tgt Ion:149 Resp: 572

Ion	Ratio	Lower	Upper
149	100		
167	27.3	20.7	31.1
279	5.9	3.6	5.4#

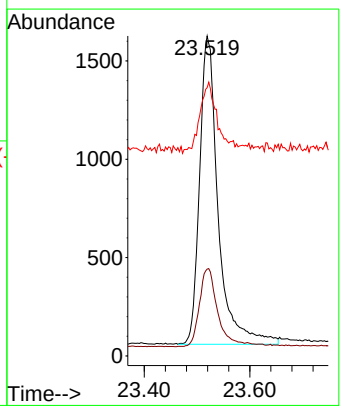




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036778.D
Acq: 28 Mar 2025 18:14

Tgt Ion:264 Resp: 3839

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.6	33.8
265	83.8	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D6-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-18	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036751.D	1	03/20/25 10:49	03/27/25 23:27	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.90	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1580	7.703				
1146-65-2	Naphthalene-d8	3760	10.487				
15067-26-2	Acenaphthene-d10	2380	14.345				
1517-22-2	Phenanthrene-d10	5300	17.086				
1719-03-5	Chrysene-d12	4610	21.277				
1520-96-3	Perylene-d12	3990	23.522				

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\BN032725\
Data File : BN036751.D
Acq On : 27 Mar 2025 23:27
Operator : RC/JU
Sample : Q1608-18
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Quant Time: Mar 28 00:59:19 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

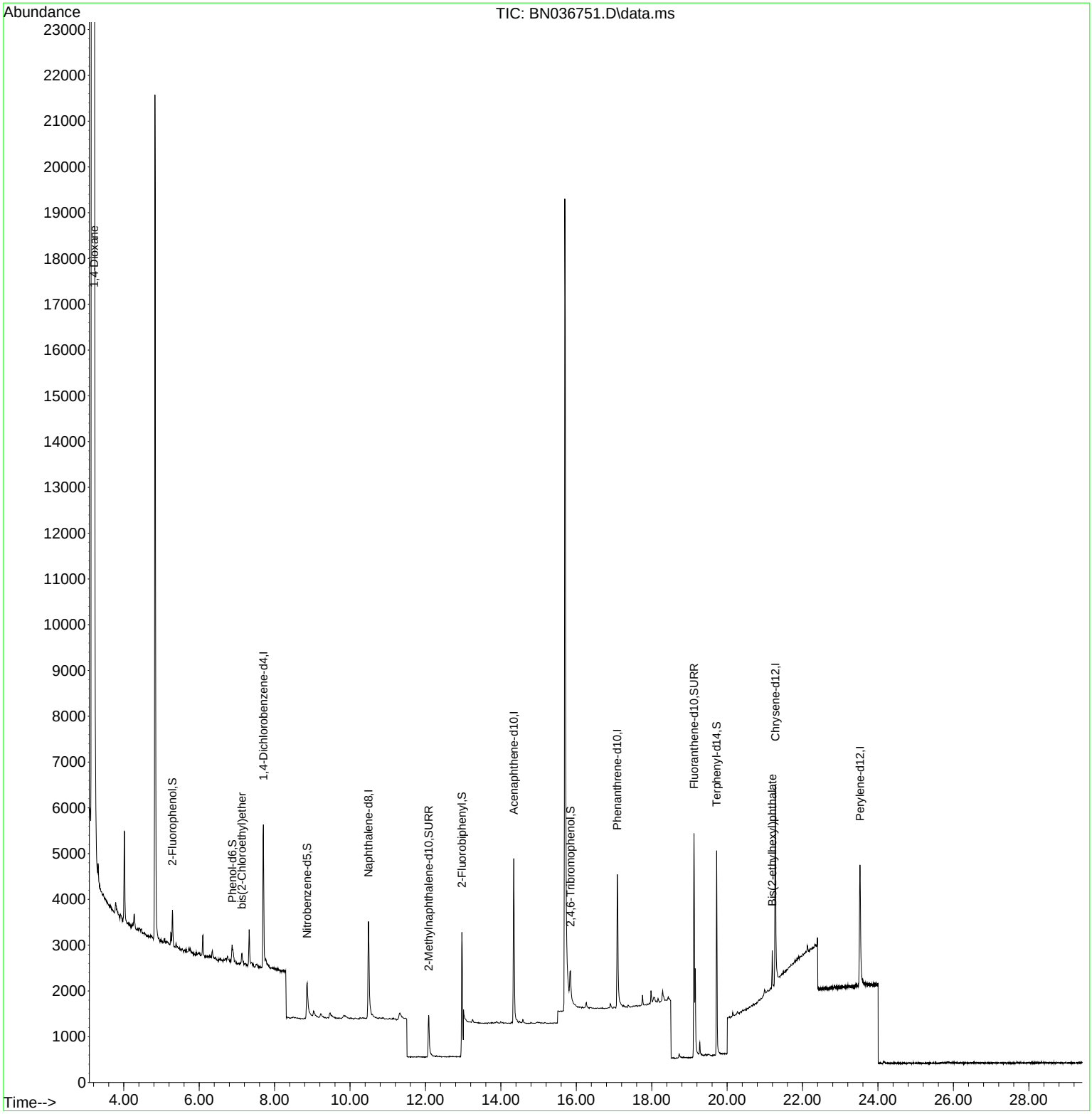
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1580	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3758	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2377	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5303	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4607	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3992	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	597	0.162	ng	-0.02
5) Phenol-d6	6.879	99	400	0.088	ng	-0.02
8) Nitrobenzene-d5	8.865	82	1136	0.278	ng	-0.01
11) 2-Methylnaphthalene-d10	12.086	152	1705	0.305	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	468	0.434	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	4327	0.313	ng	-0.02
27) Fluoranthene-d10	19.122	212	5926	0.436	ng	-0.02
31) Terphenyl-d14	19.722	244	4479	0.406	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	11515	6.570	ng	97
6) bis(2-Chloroethyl)ether	7.132	93	229	0.049	ng	# 94
34) Bis(2-ethylhexyl)phtha...	21.196	149	750	0.066	ng	98

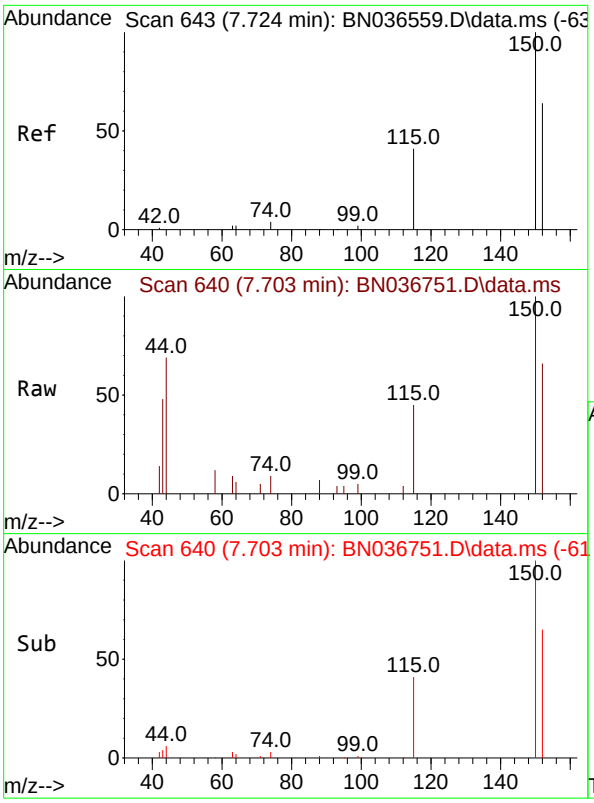
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036751.D
Acq On : 27 Mar 2025 23:27
Operator : RC/JU
Sample : Q1608-18
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Quant Time: Mar 28 00:59:19 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



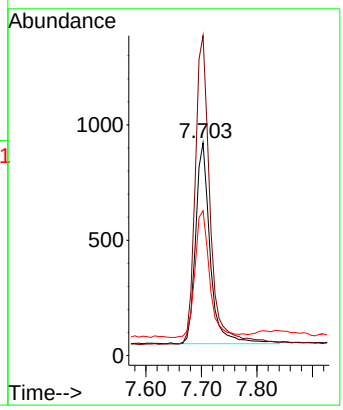


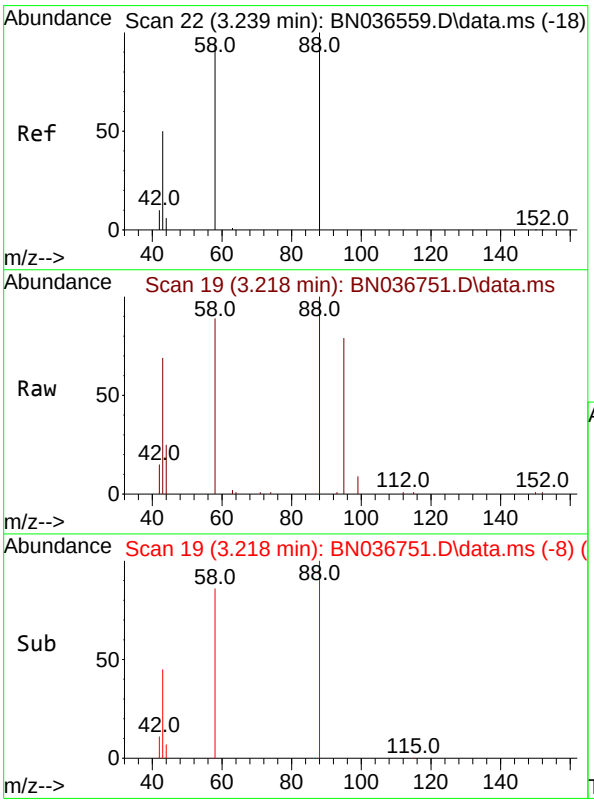
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion:152 Resp: 1580

Ion	Ratio	Lower	Upper
152	100		
150	150.4	123.7	185.5
115	68.1	54.3	81.5

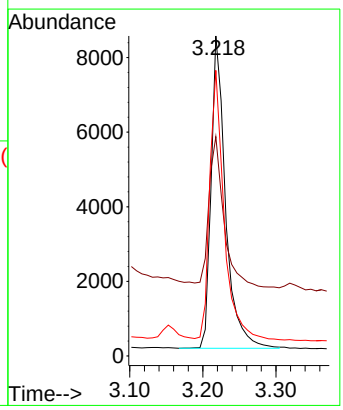


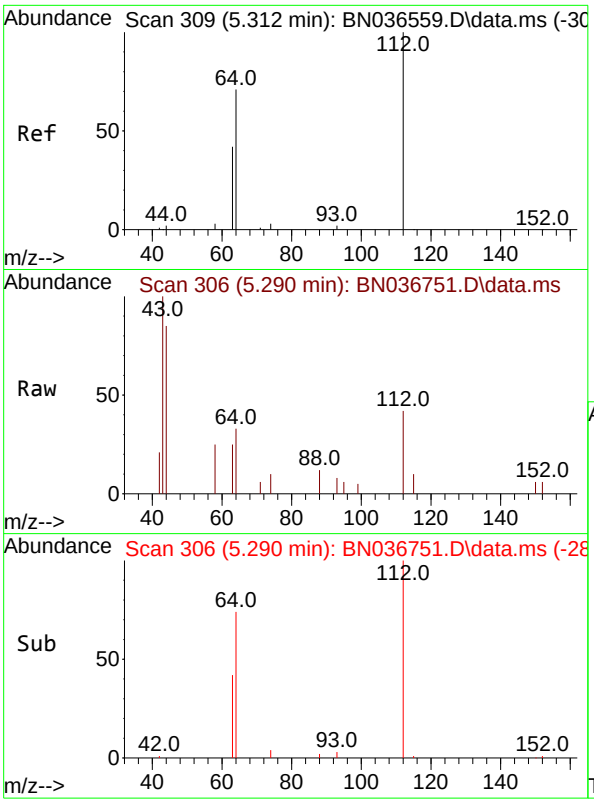


#2
1,4-Dioxane
Concen: 6.570 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Tgt Ion: 88 Resp: 11515

Ion	Ratio	Lower	Upper
88	100		
43	50.7	37.8	56.8
58	85.7	67.4	101.2



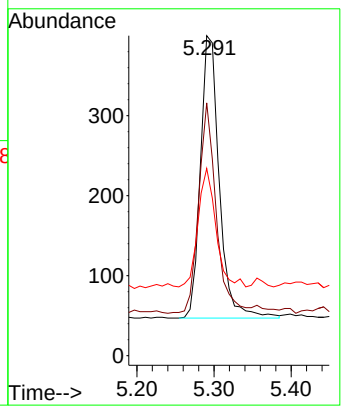


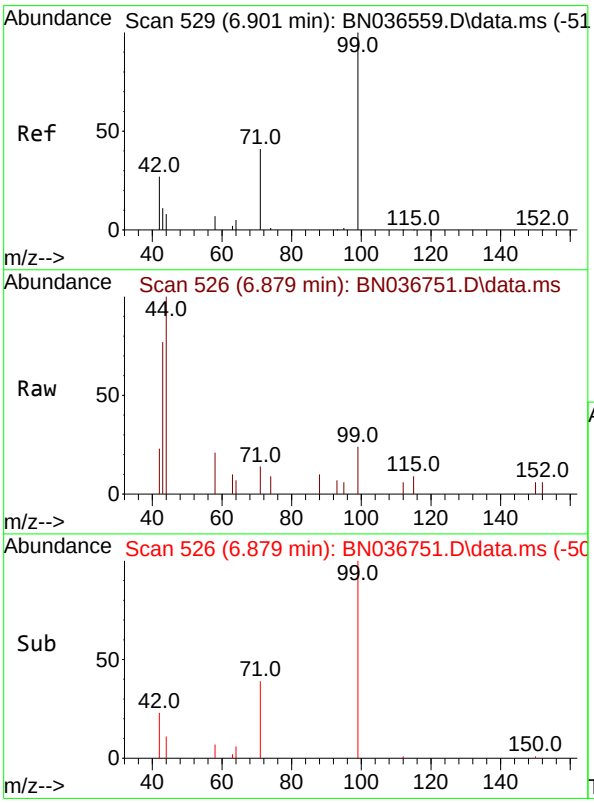
#4
2-Fluorophenol
Concen: 0.162 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion:112 Resp: 597

Ion	Ratio	Lower	Upper
112	100		
64	69.0	53.1	79.7
63	39.4	31.8	47.8

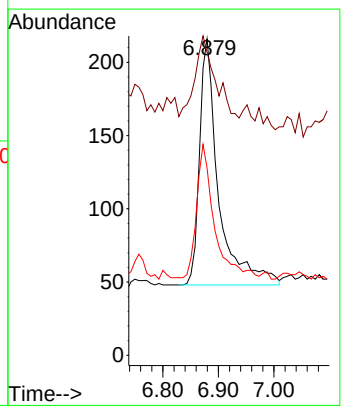


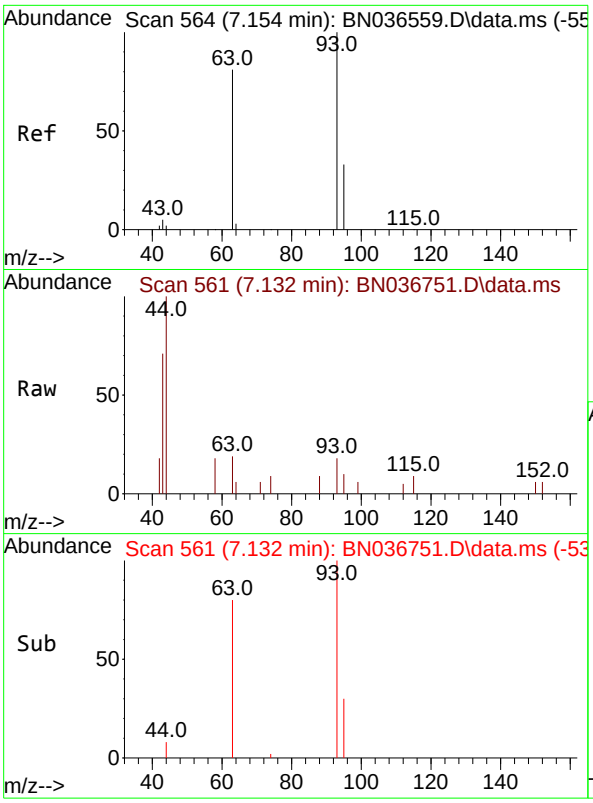


#5
Phenol-d6
Concen: 0.088 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Tgt Ion: 99 Resp: 400

Ion	Ratio	Lower	Upper
99	100		
42	34.8	26.5	39.7
71	49.5	34.1	51.1



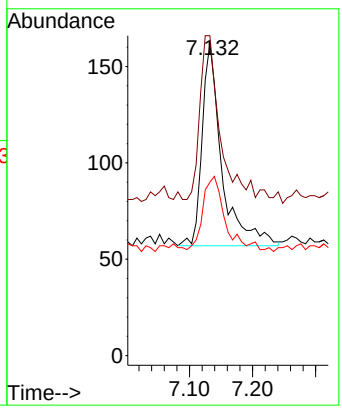


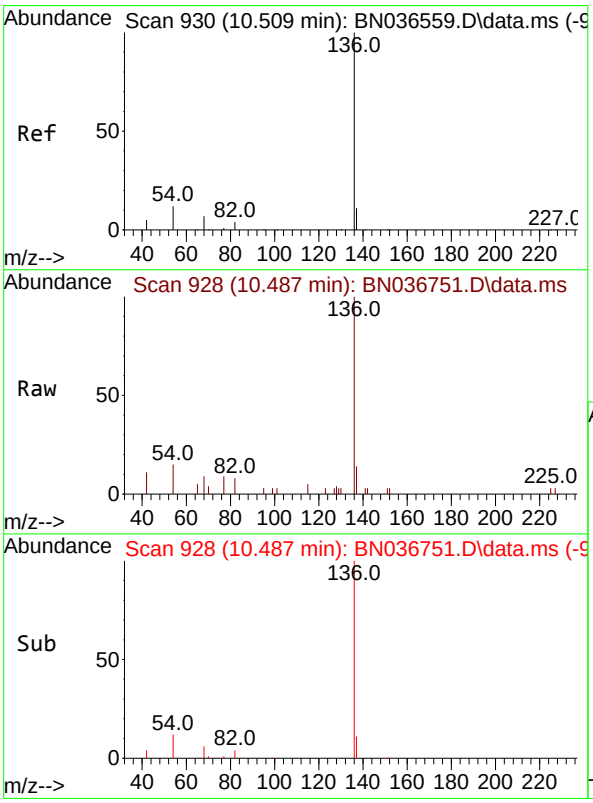
#6
bis(2-Chloroethyl)ether
Concen: 0.049 ng
RT: 7.132 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion: 93 Resp: 229

Ion	Ratio	Lower	Upper
93	100		
63	83.0	67.7	101.5
95	40.6	25.6	38.4#

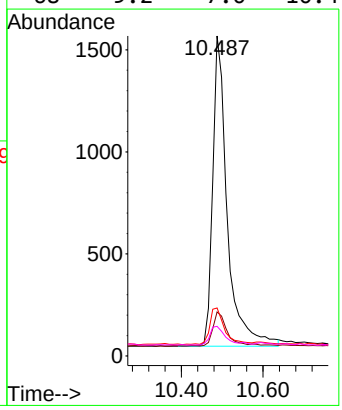


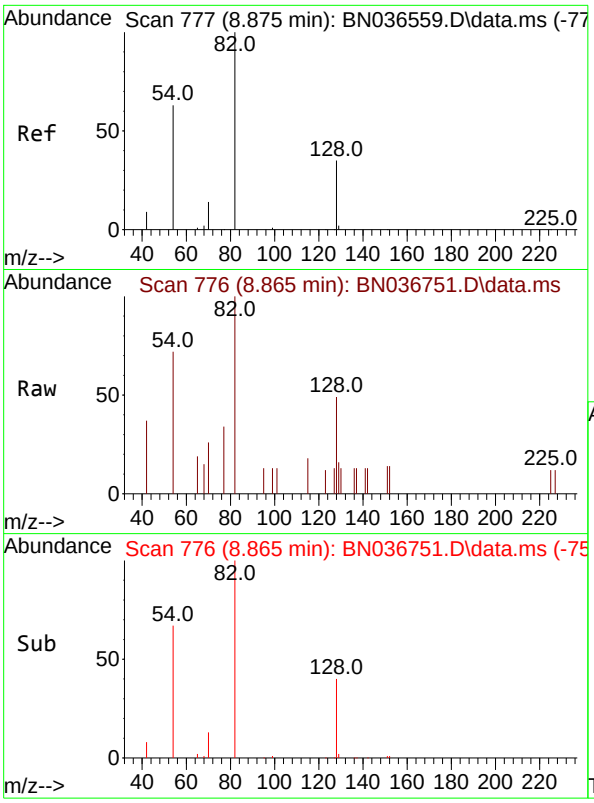


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Tgt Ion:136 Resp: 3758

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.0	11.5	17.3
68	9.2	7.0	10.4



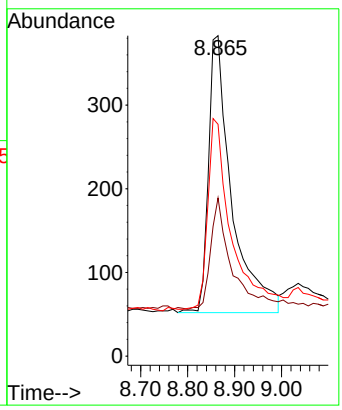


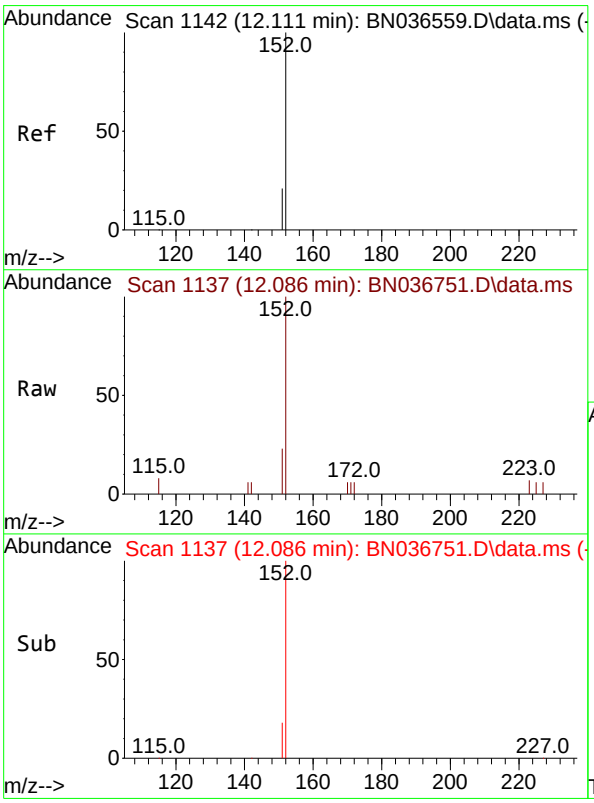
#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion: 82 Resp: 1136

Ion	Ratio	Lower	Upper
82	100		
128	49.3	30.6	45.8#
54	72.3	52.2	78.4

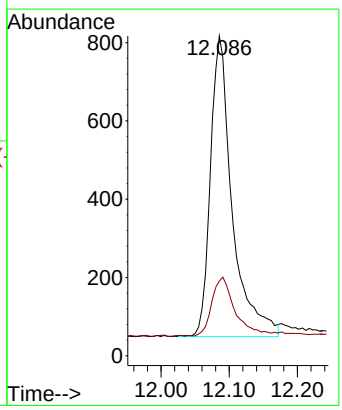


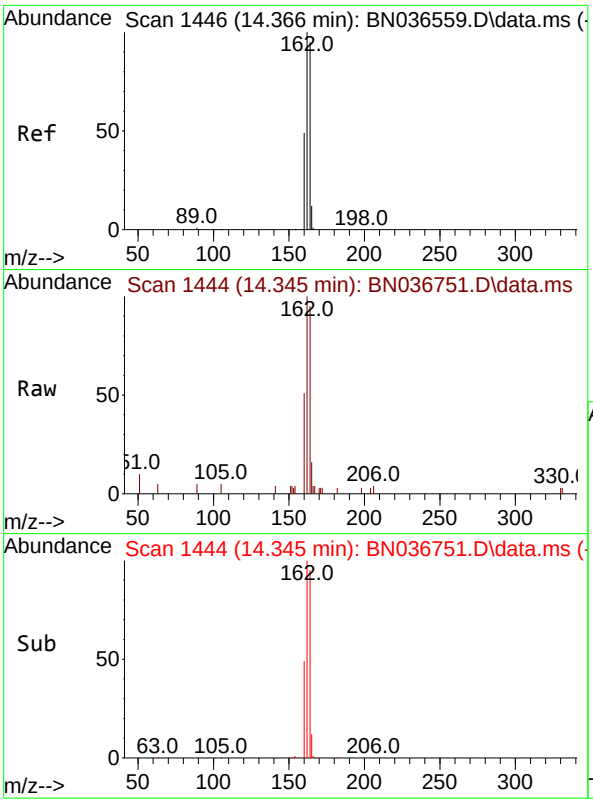


#11
2-Methylnaphthalene-d10
Concen: 0.305 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.025 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Tgt Ion:152 Resp: 1705

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



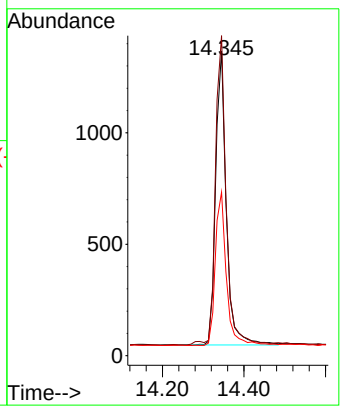


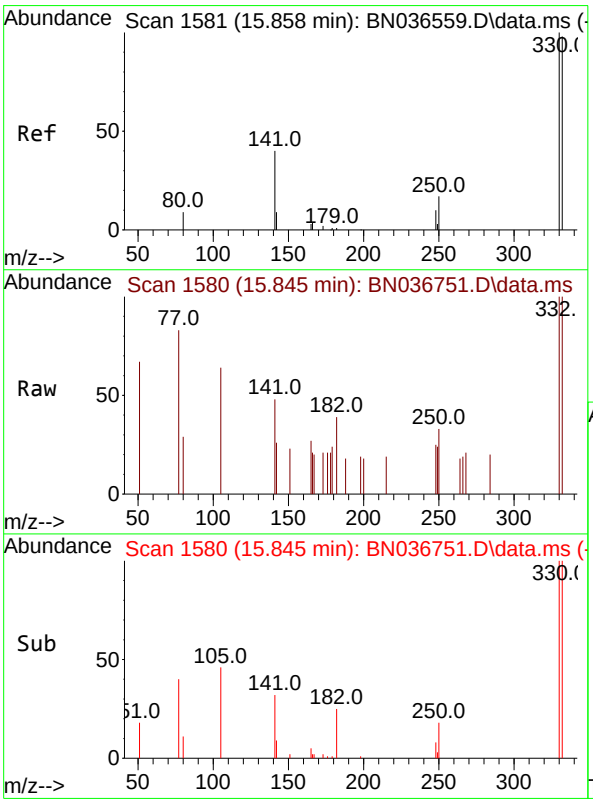
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion:164 Resp: 2377

Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	53.7	42.2	63.2

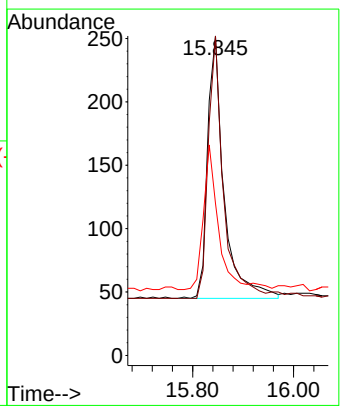


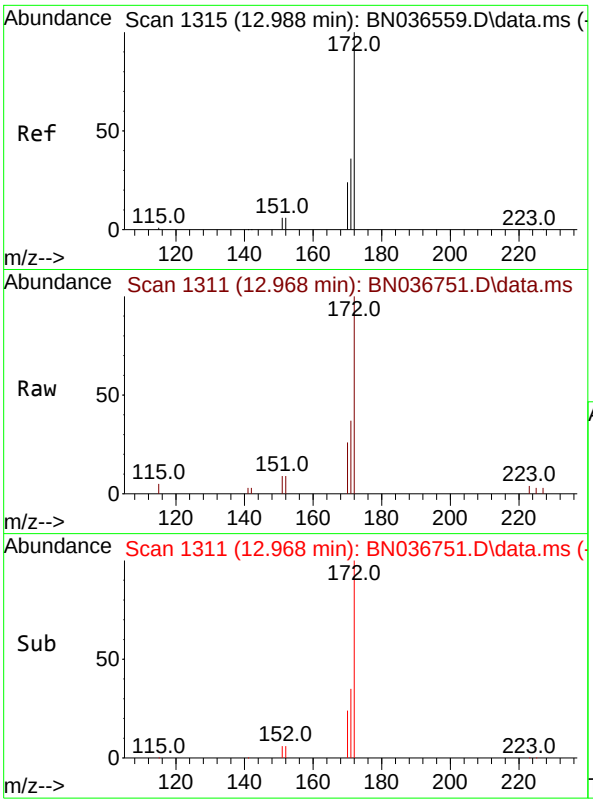


#14
2,4,6-Tribromophenol
Concen: 0.434 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Tgt Ion:330 Resp: 468

Ion	Ratio	Lower	Upper
330	100		
332	94.2	75.2	112.8
141	50.9	43.4	65.2



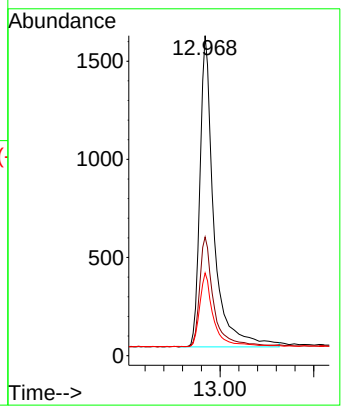


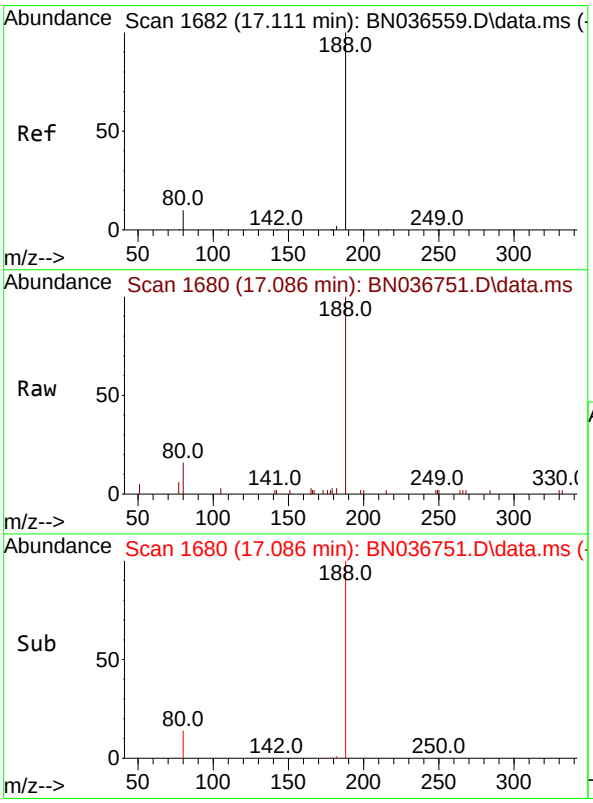
#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion:172 Resp: 4327

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	25.8	20.2	30.4

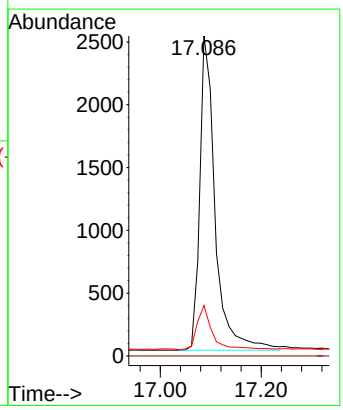


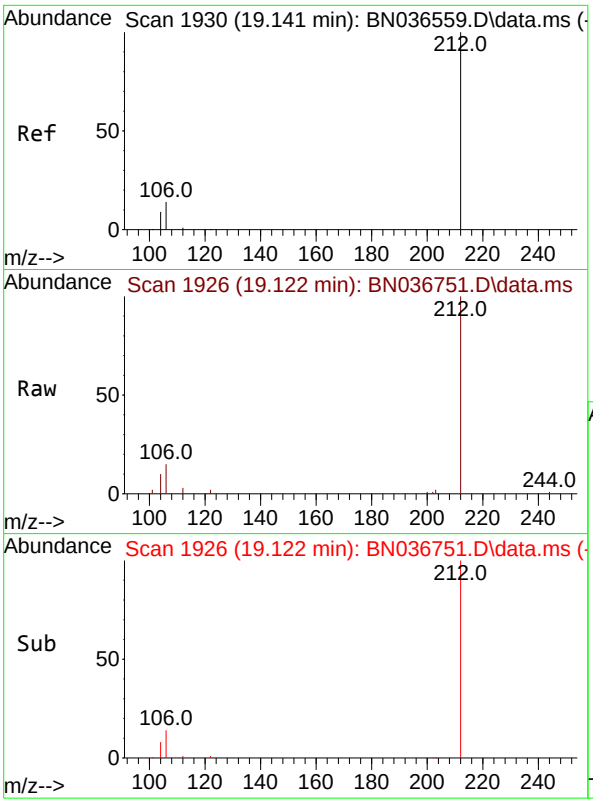


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Tgt Ion:188 Resp: 5303

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.8	8.8	13.2#



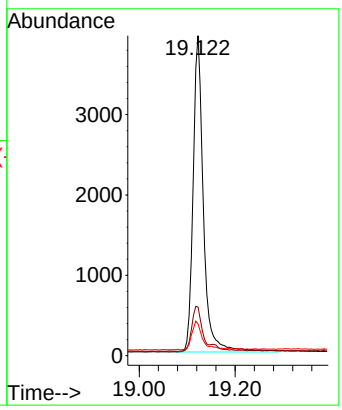


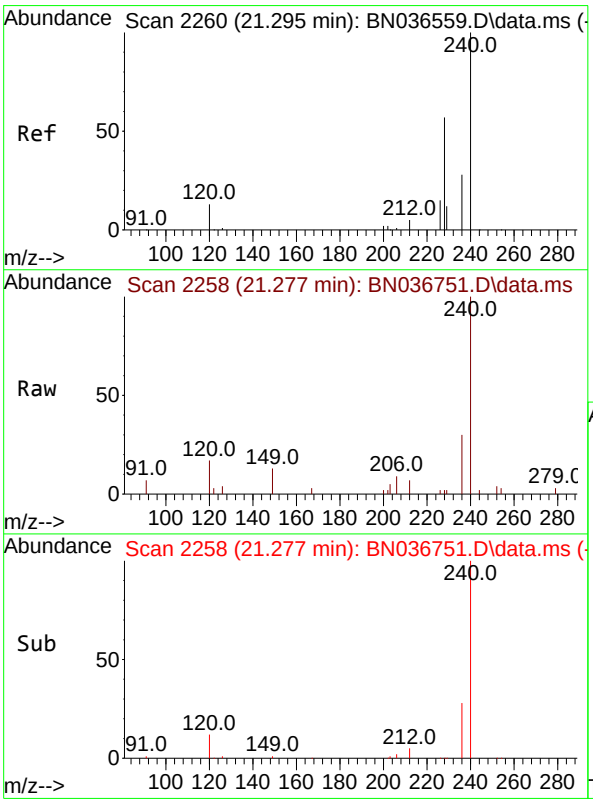
#27
Fluoranthene-d10
Concen: 0.436 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion:212 Resp: 5926

Ion	Ratio	Lower	Upper
212	100		
106	14.0	11.8	17.6
104	9.7	7.3	10.9

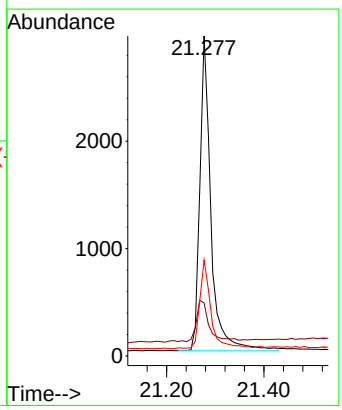


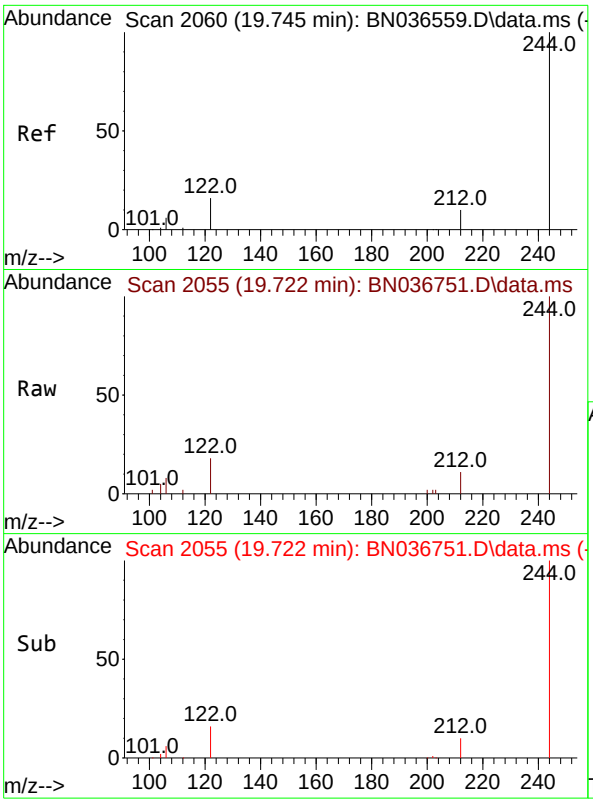


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Tgt Ion:240 Resp: 4607

Ion	Ratio	Lower	Upper
240	100		
120	16.5	14.6	22.0
236	30.0	24.1	36.1



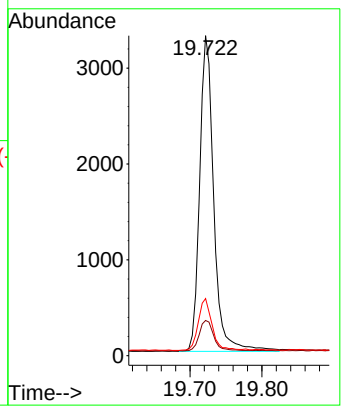


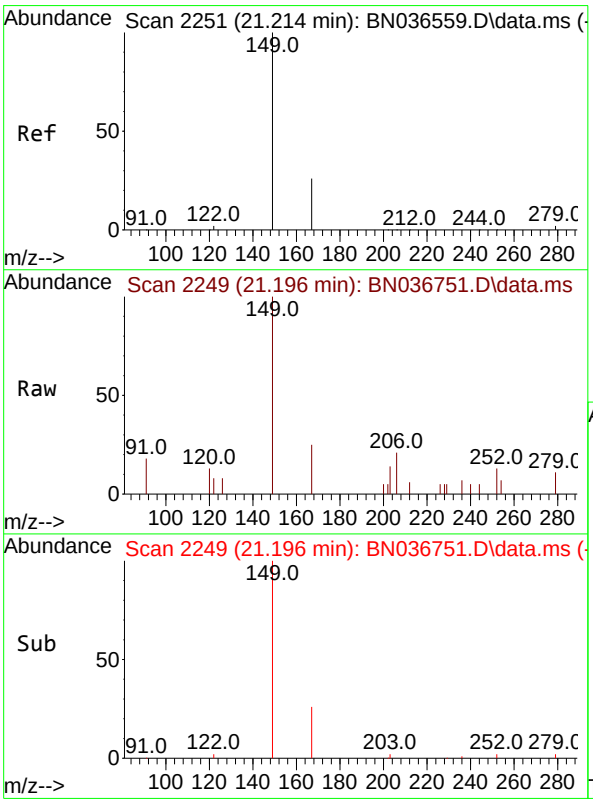
#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion:244 Resp: 4479

Ion	Ratio	Lower	Upper
244	100		
212	11.0	9.6	14.4
122	17.8	13.9	20.9

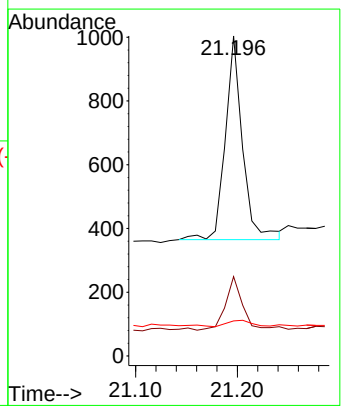


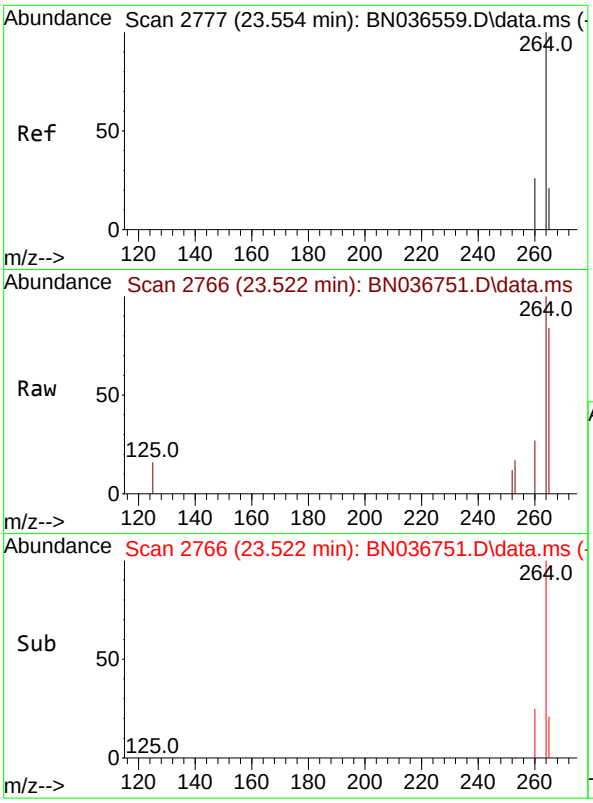


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.066 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Tgt Ion:149 Resp: 750

Ion	Ratio	Lower	Upper
149	100		
167	26.9	20.7	31.1
279	4.4	3.6	5.4



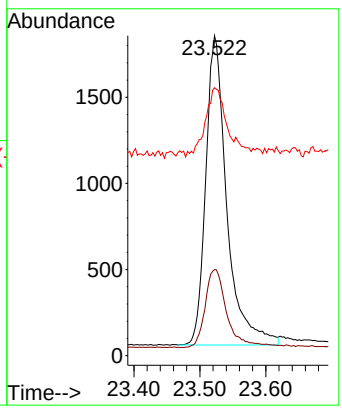


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036751.D
Acq: 27 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318

Tgt Ion:264 Resp: 3992

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.6	33.8
265	83.7	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D6-20250318DL	SDG No.:	Q1608
Lab Sample ID:	Q1608-18DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036779.D	2	03/20/25 10:49	03/28/25 18:50	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.80	D	0.15	0.42	0.42	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1530	7.703				
1146-65-2	Naphthalene-d8	3510	10.487				
15067-26-2	Acenaphthene-d10	2350	14.345				
1517-22-2	Phenanthrene-d10	5160	17.086				
1719-03-5	Chrysene-d12	4130	21.277				
1520-96-3	Perylene-d12	3580	23.519				

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\BN032825\
Data File : BN036779.D
Acq On : 28 Mar 2025 18:50
Operator : RC/JU
Sample : Q1608-18DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Quant Time: Mar 28 22:52:16 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

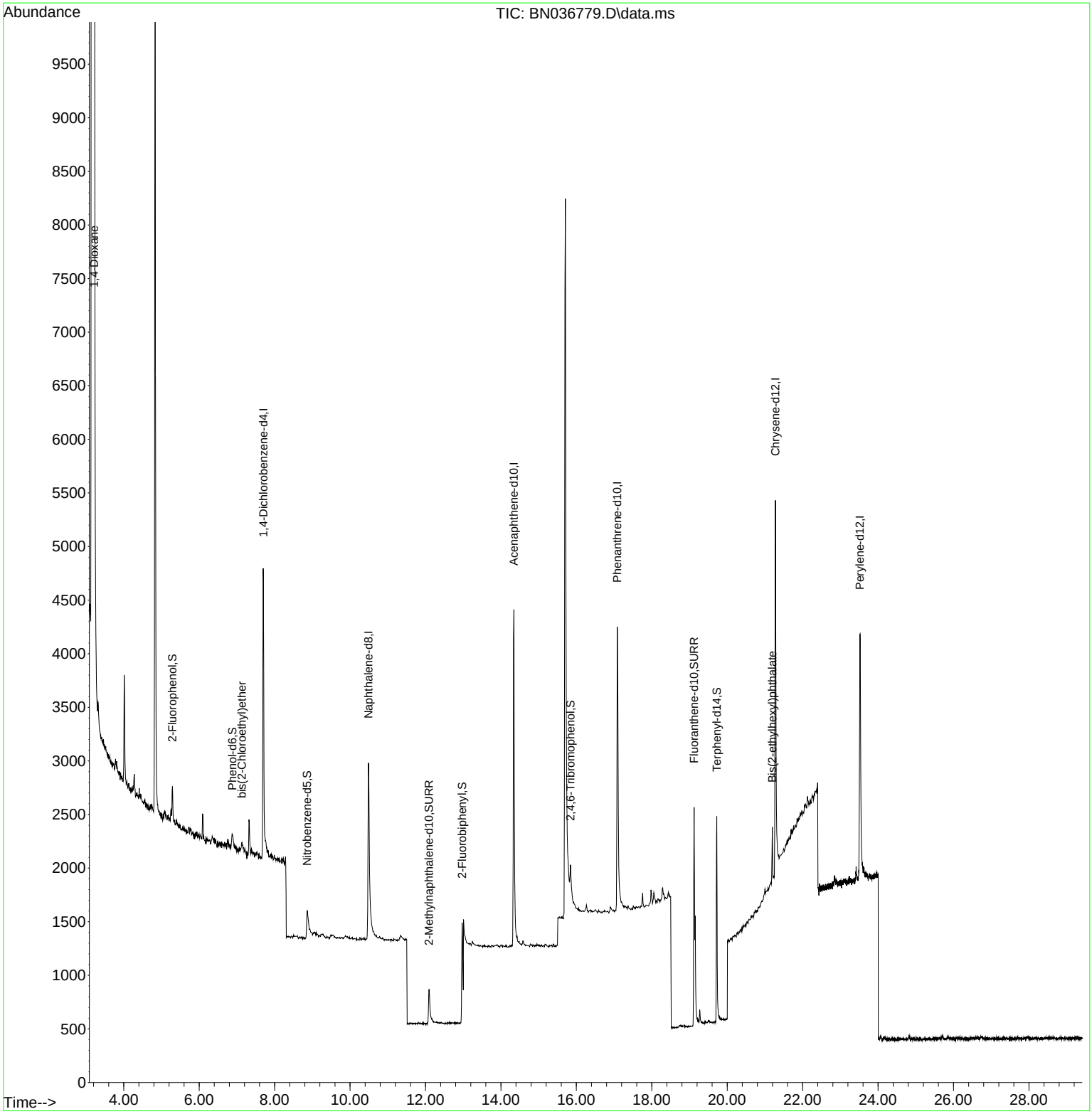
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1528	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3509	0.400	ng	#-0.02
13) Acenaphthene-d10	14.345	164	2347	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5155	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4127	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3575	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	273	0.077	ng	-0.02
5) Phenol-d6	6.879	99	172	0.039	ng	-0.02
8) Nitrobenzene-d5	8.865	82	512	0.134	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	796	0.153	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	218	0.205	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	1877	0.137	ng	-0.02
27) Fluoranthene-d10	19.122	212	2836	0.215	ng	-0.02
31) Terphenyl-d14	19.722	244	2064	0.209	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	5470	3.227	ng	96
6) bis(2-Chloroethyl)ether	7.132	93	95	0.021	ng	# 78
34) Bis(2-ethylhexyl)phtha...	21.196	149	505	0.049	ng	94

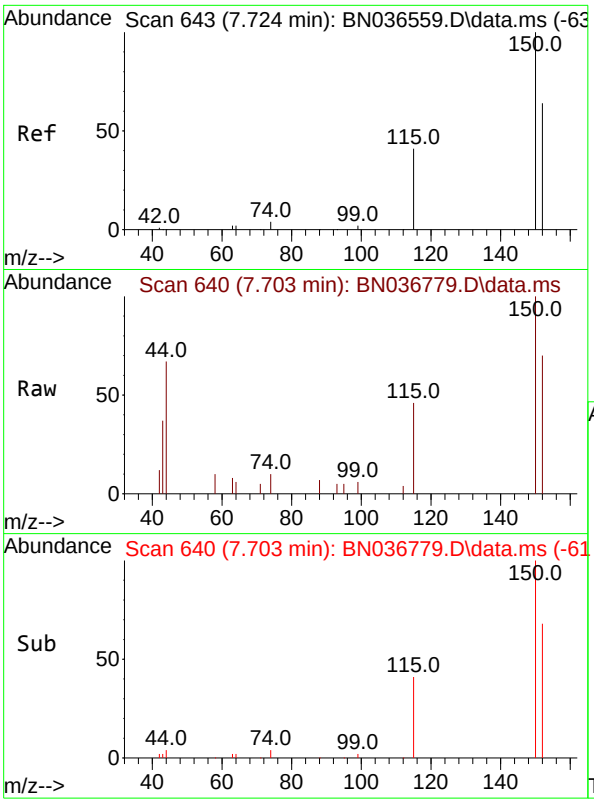
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036779.D
Acq On : 28 Mar 2025 18:50
Operator : RC/JU
Sample : Q1608-18DL 2X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Quant Time: Mar 28 22:52:16 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



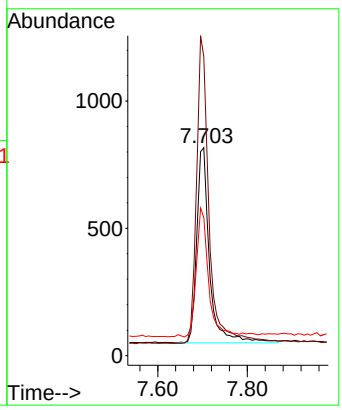


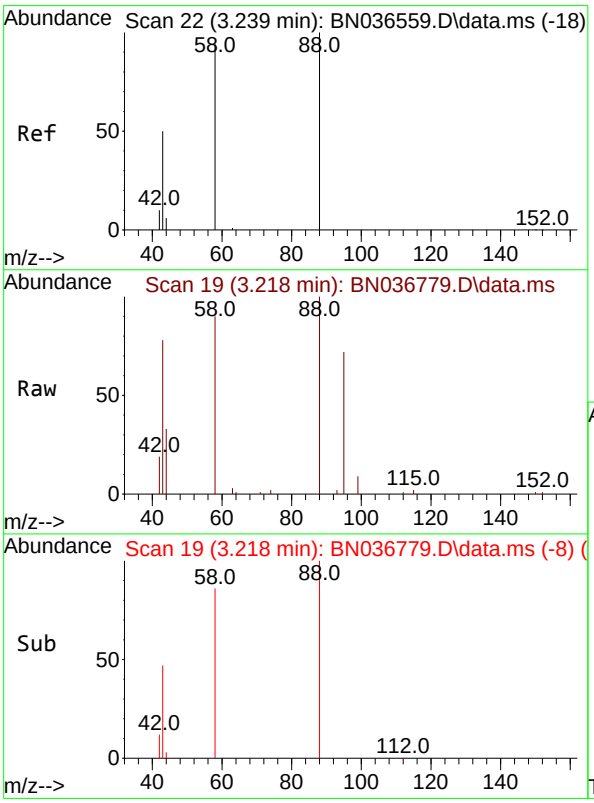
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion:152 Resp: 1528

Ion	Ratio	Lower	Upper
152	100		
150	143.7	123.7	185.5
115	66.3	54.3	81.5

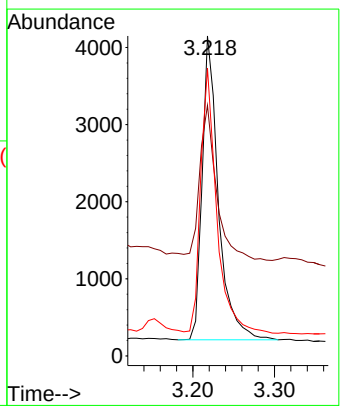


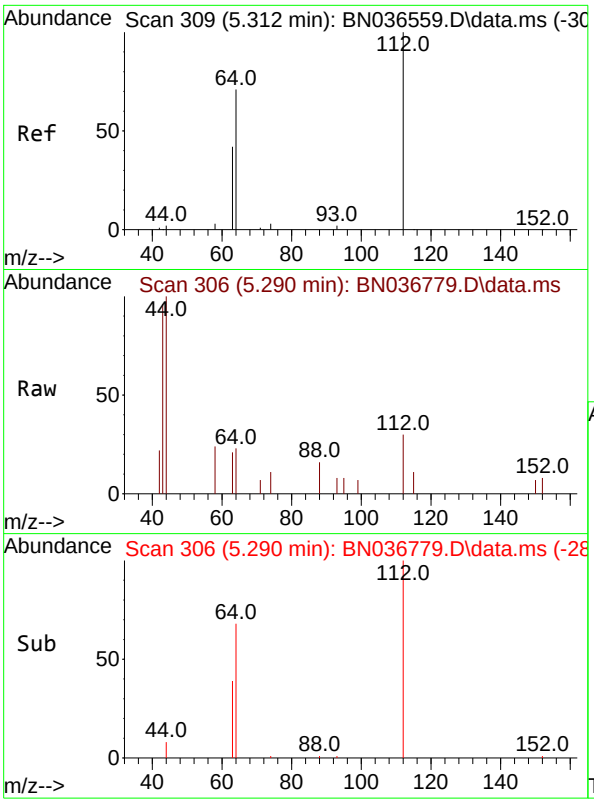


#2
1,4-Dioxane
Concen: 3.227 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Tgt Ion: 88 Resp: 5470

Ion	Ratio	Lower	Upper
88	100		
43	53.0	37.8	56.8
58	86.3	67.4	101.2



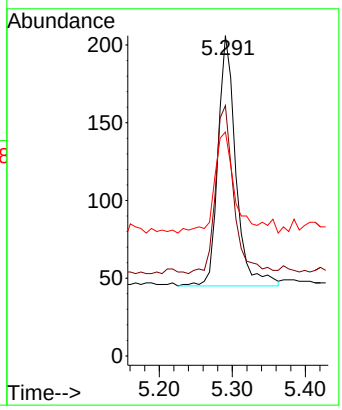


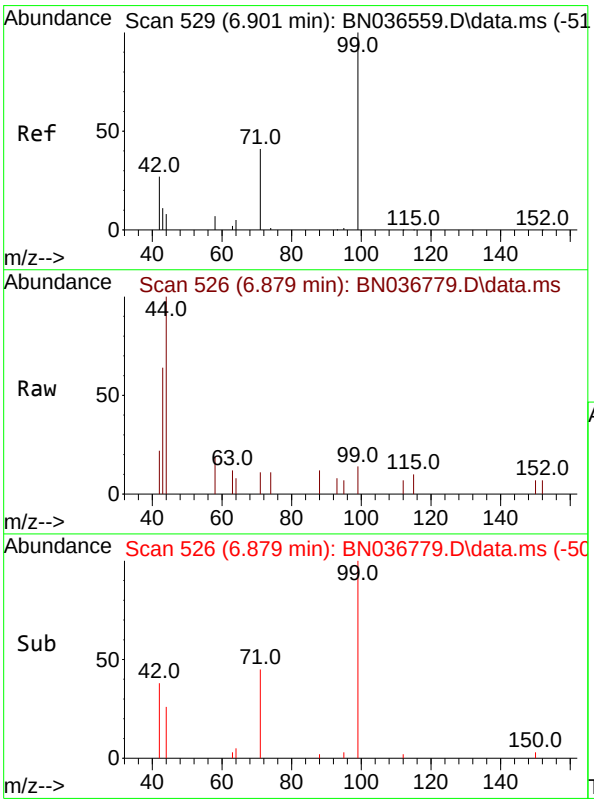
#4
2-Fluorophenol
Concen: 0.077 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion:112 Resp: 273

Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.1	79.7
63	44.3	31.8	47.8

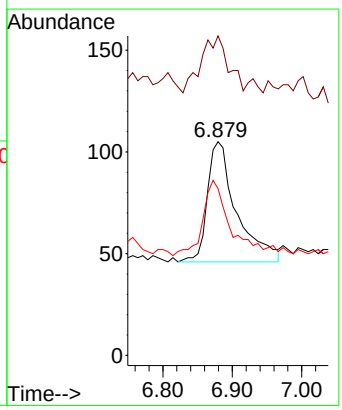


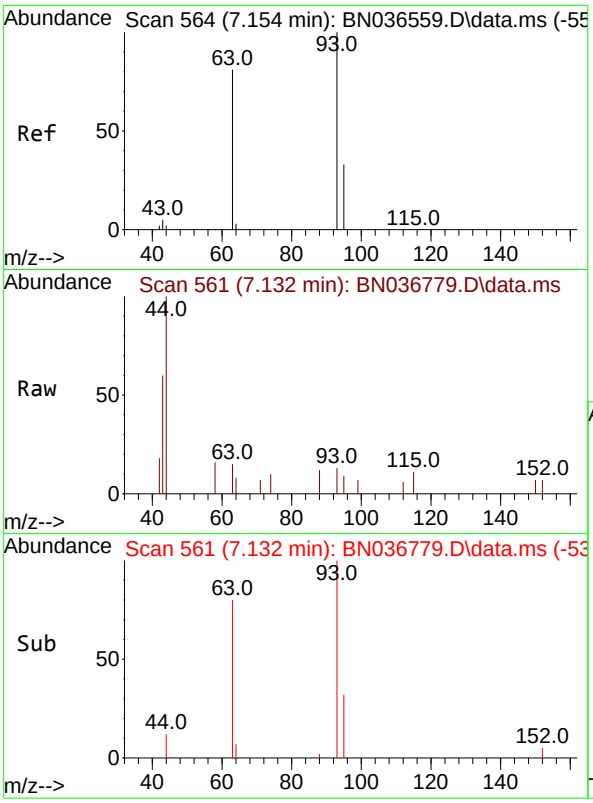


#5
Phenol-d6
Concen: 0.039 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Tgt Ion: 99 Resp: 172

Ion	Ratio	Lower	Upper
99	100		
42	45.3	26.5	39.7#
71	58.1	34.1	51.1#



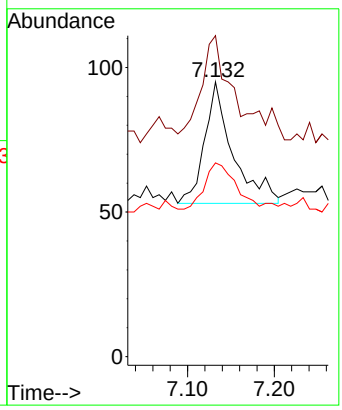


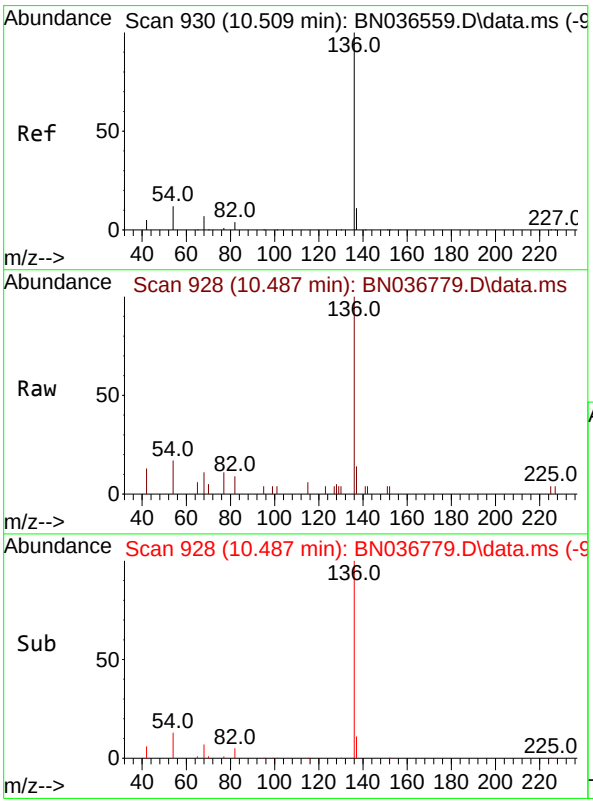
#6
bis(2-Chloroethyl)ether
Concen: 0.021 ng
RT: 7.132 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion: 93 Resp: 95

Ion	Ratio	Lower	Upper
93	100		
63	104.2	67.7	101.5#
95	45.3	25.6	38.4#

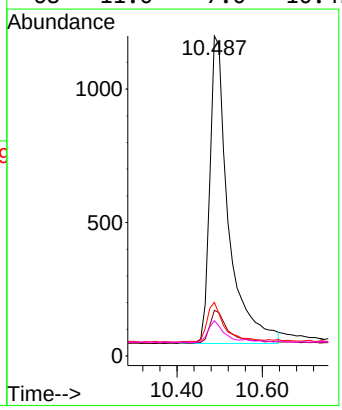


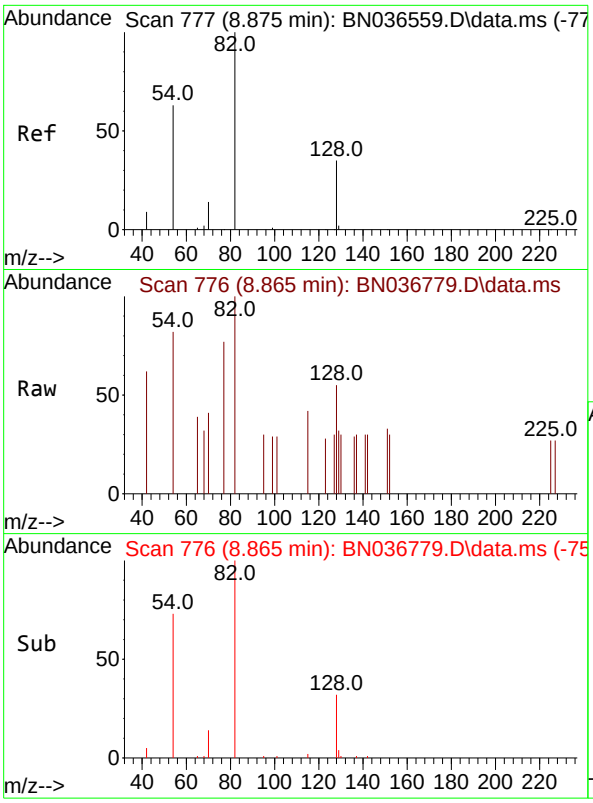


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Tgt Ion:136 Resp: 3509

Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.3	15.5
54	16.8	11.5	17.3
68	11.0	7.0	10.4#



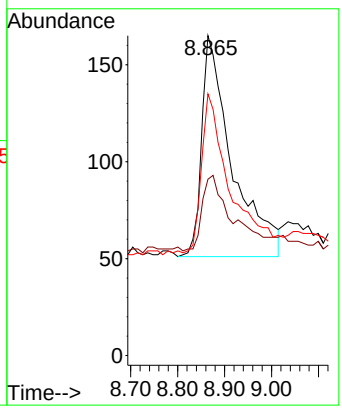


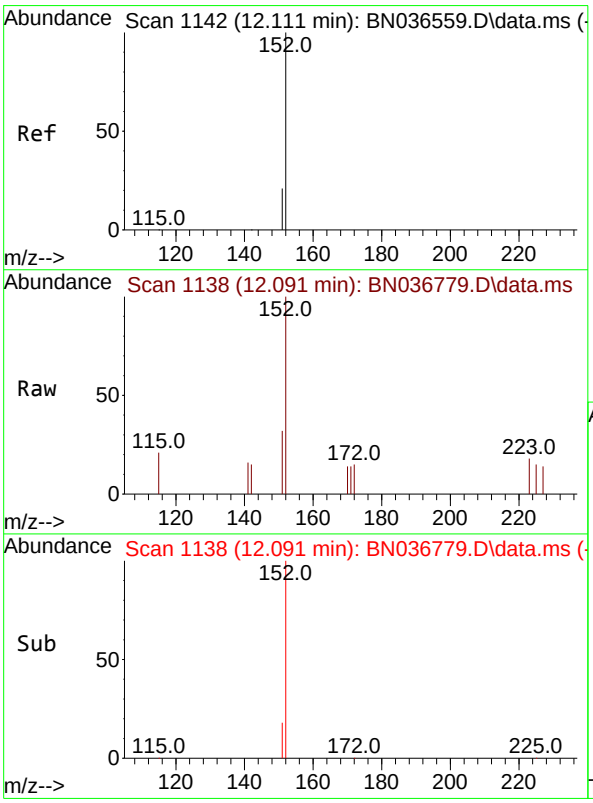
#8
Nitrobenzene-d5
Concen: 0.134 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion: 82 Resp: 512

Ion	Ratio	Lower	Upper
82	100		
128	55.2	30.6	45.8#
54	81.8	52.2	78.4#

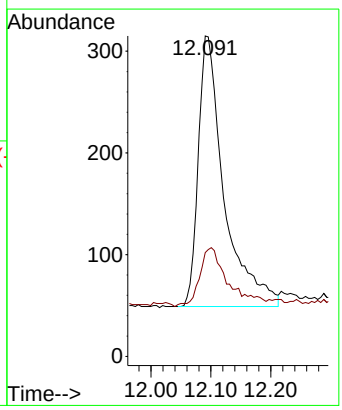


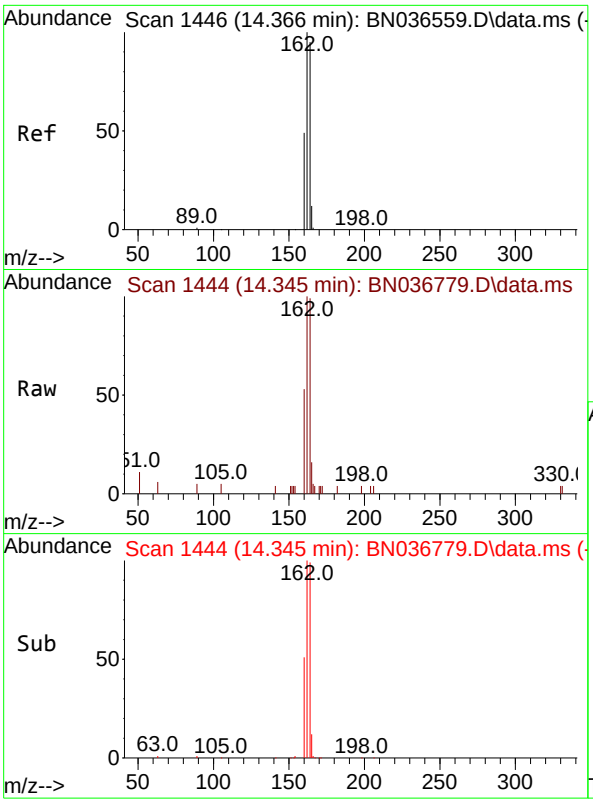


#11
2-Methylnaphthalene-d10
Concen: 0.153 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.020 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Tgt Ion:152 Resp: 796

Ion	Ratio	Lower	Upper
152	100		
151	24.0	17.0	25.6



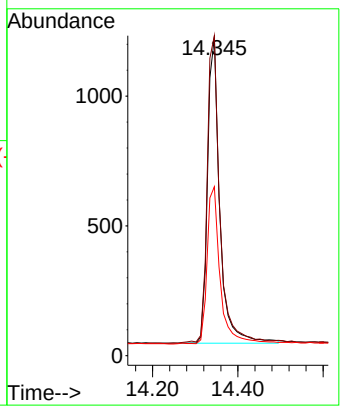


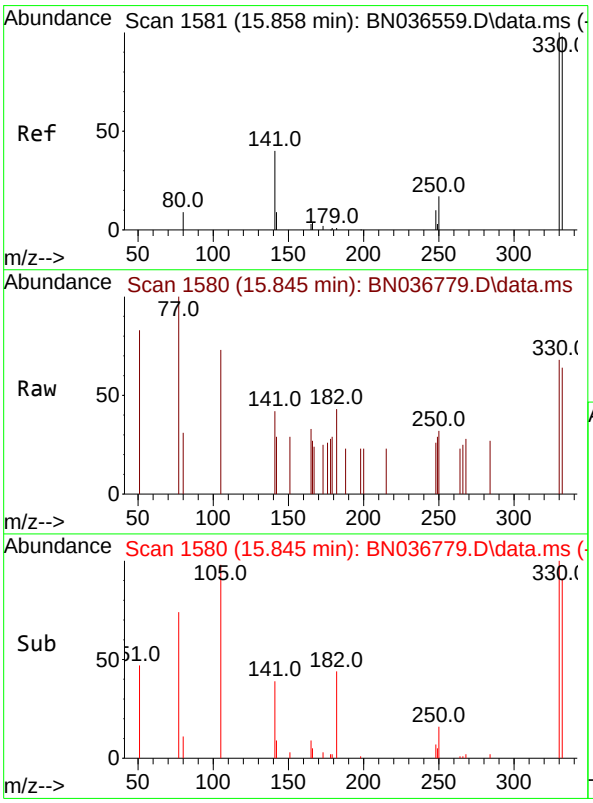
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion:164 Resp: 2347

Ion	Ratio	Lower	Upper
164	100		
162	100.6	84.2	126.2
160	53.1	42.2	63.2

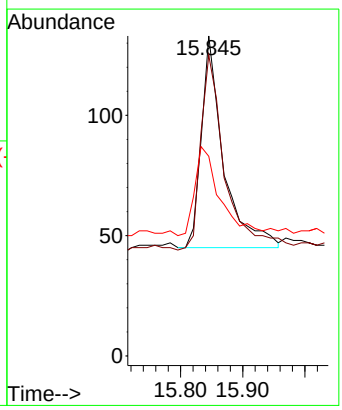


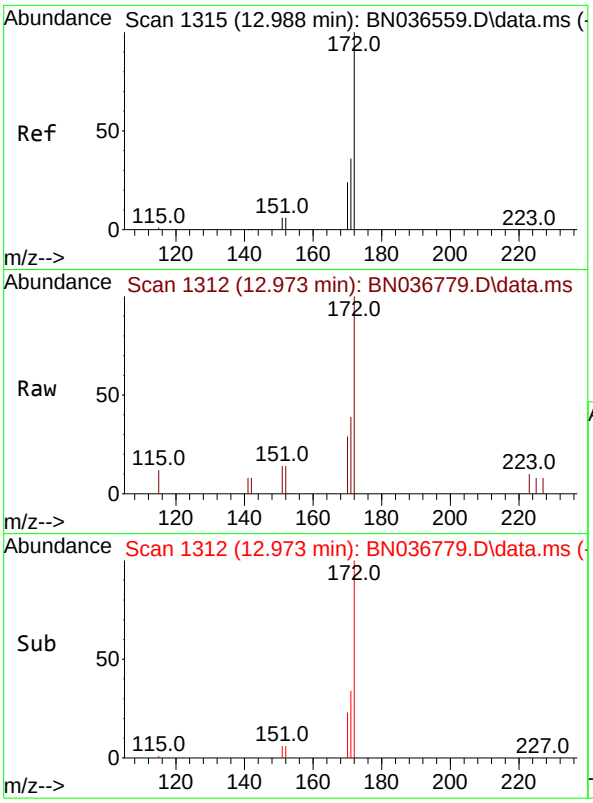


#14
2,4,6-Tribromophenol
Concen: 0.205 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Tgt Ion:330 Resp: 218

Ion	Ratio	Lower	Upper
330	100		
332	101.8	75.2	112.8
141	47.7	43.4	65.2



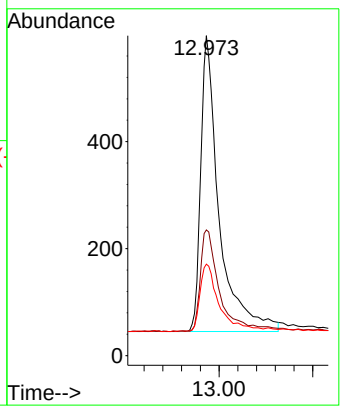


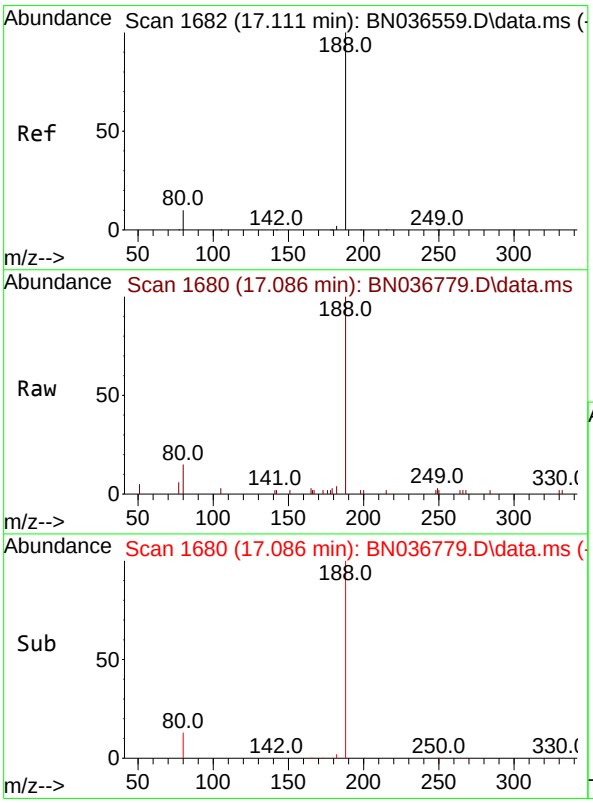
#15
2-Fluorobiphenyl
Concen: 0.137 ng
RT: 12.973 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion:172 Resp: 1877

Ion	Ratio	Lower	Upper
172	100		
171	39.3	29.5	44.3
170	28.6	20.2	30.4

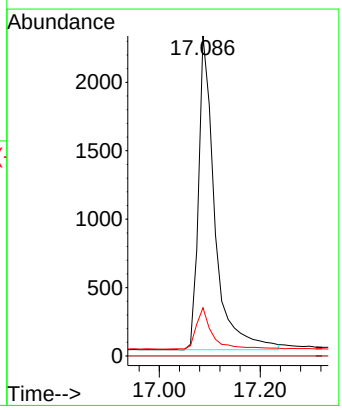


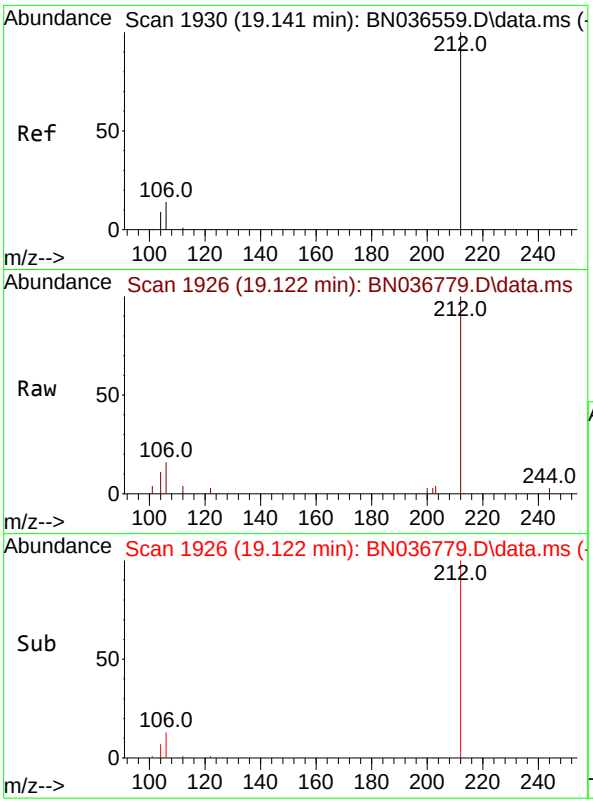


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Tgt Ion:188 Resp: 5155

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.0	8.8	13.2#



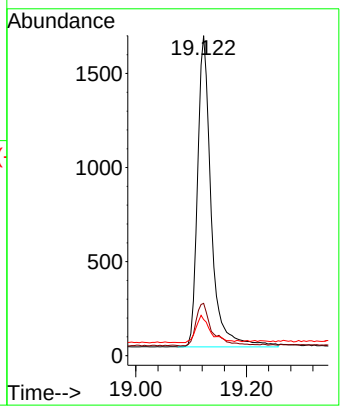


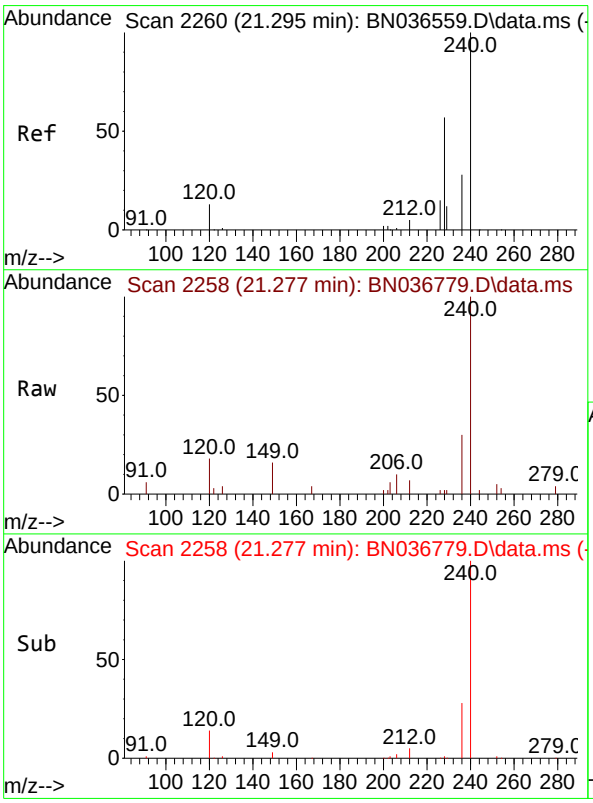
#27
Fluoranthene-d10
Concen: 0.215 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion:212 Resp: 2836

Ion	Ratio	Lower	Upper
212	100		
106	16.3	11.8	17.6
104	9.1	7.3	10.9

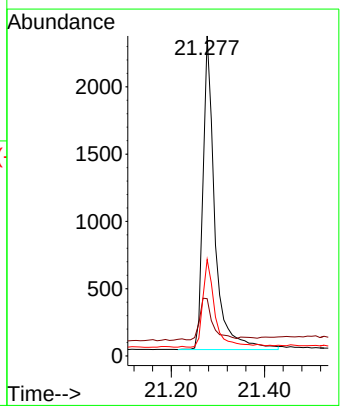


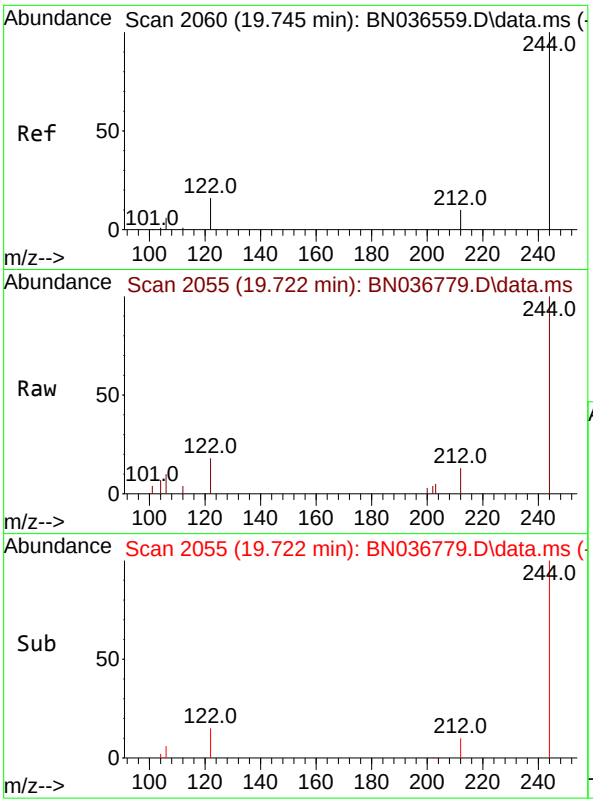


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Tgt Ion:240 Resp: 4127

Ion	Ratio	Lower	Upper
240	100		
120	17.9	14.6	22.0
236	30.2	24.1	36.1



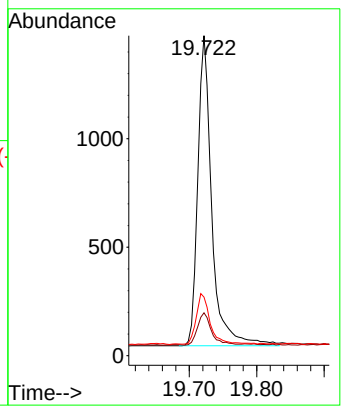


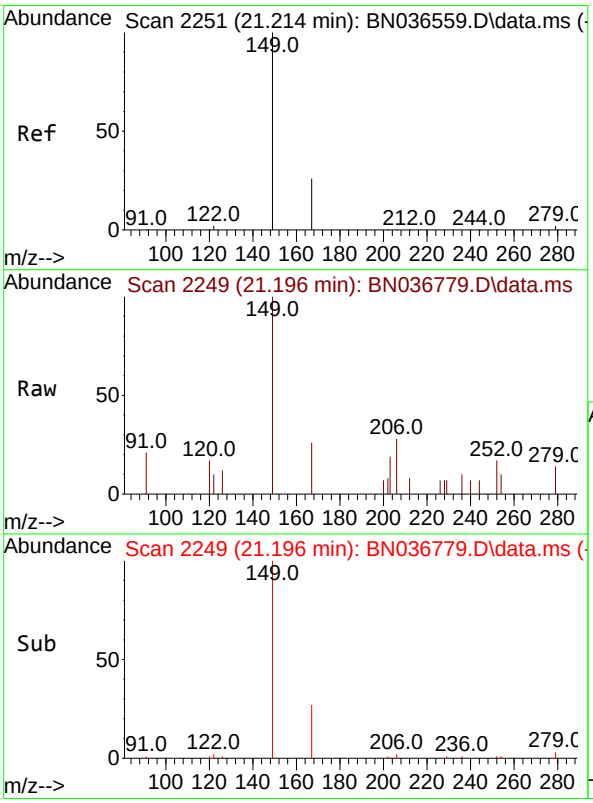
#31
Terphenyl-d14
Concen: 0.209 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion:244 Resp: 2064

Ion	Ratio	Lower	Upper
244	100		
212	13.4	9.6	14.4
122	18.3	13.9	20.9

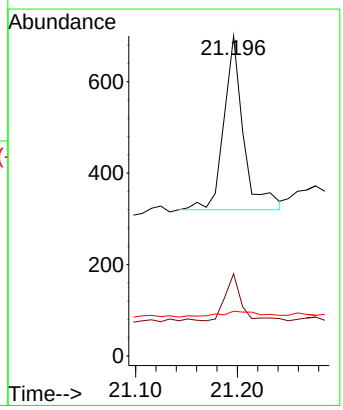


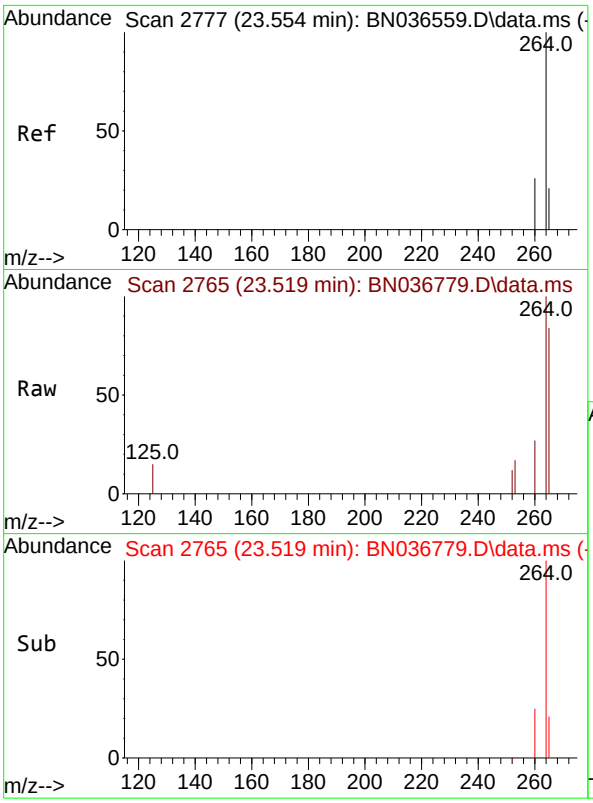


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.049 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Tgt Ion:149 Resp: 505

Ion	Ratio	Lower	Upper
149	100		
167	22.2	20.7	31.1
279	4.8	3.6	5.4



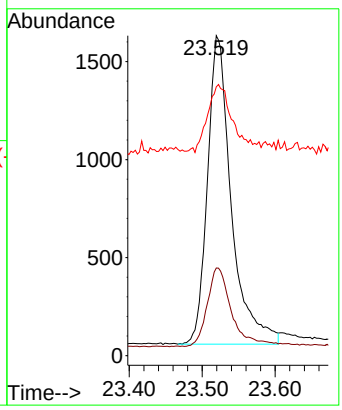


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036779.D
Acq: 28 Mar 2025 18:50

Instrument :
BNA_N
ClientSampleId :
RE132D6-20250318DL

Tgt Ion:264 Resp: 3575

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	84.0	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:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D7-20250318	SDG No.:	Q1608
Lab Sample ID:	Q1608-19	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	880 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036752.D	1	03/20/25 10:49	03/28/25 00:03	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.90		0.080	0.23	0.23	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1470	7.703				
1146-65-2	Naphthalene-d8	3370	10.498				
15067-26-2	Acenaphthene-d10	2180	14.345				
1517-22-2	Phenanthrene-d10	4850	17.086				
1719-03-5	Chrysene-d12	4340	21.277				
1520-96-3	Perylene-d12	3910	23.525				

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\BN032725\
Data File : BN036752.D
Acq On : 28 Mar 2025 00:03
Operator : RC/JU
Sample : Q1608-19
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Quant Time: Mar 28 00:59:32 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

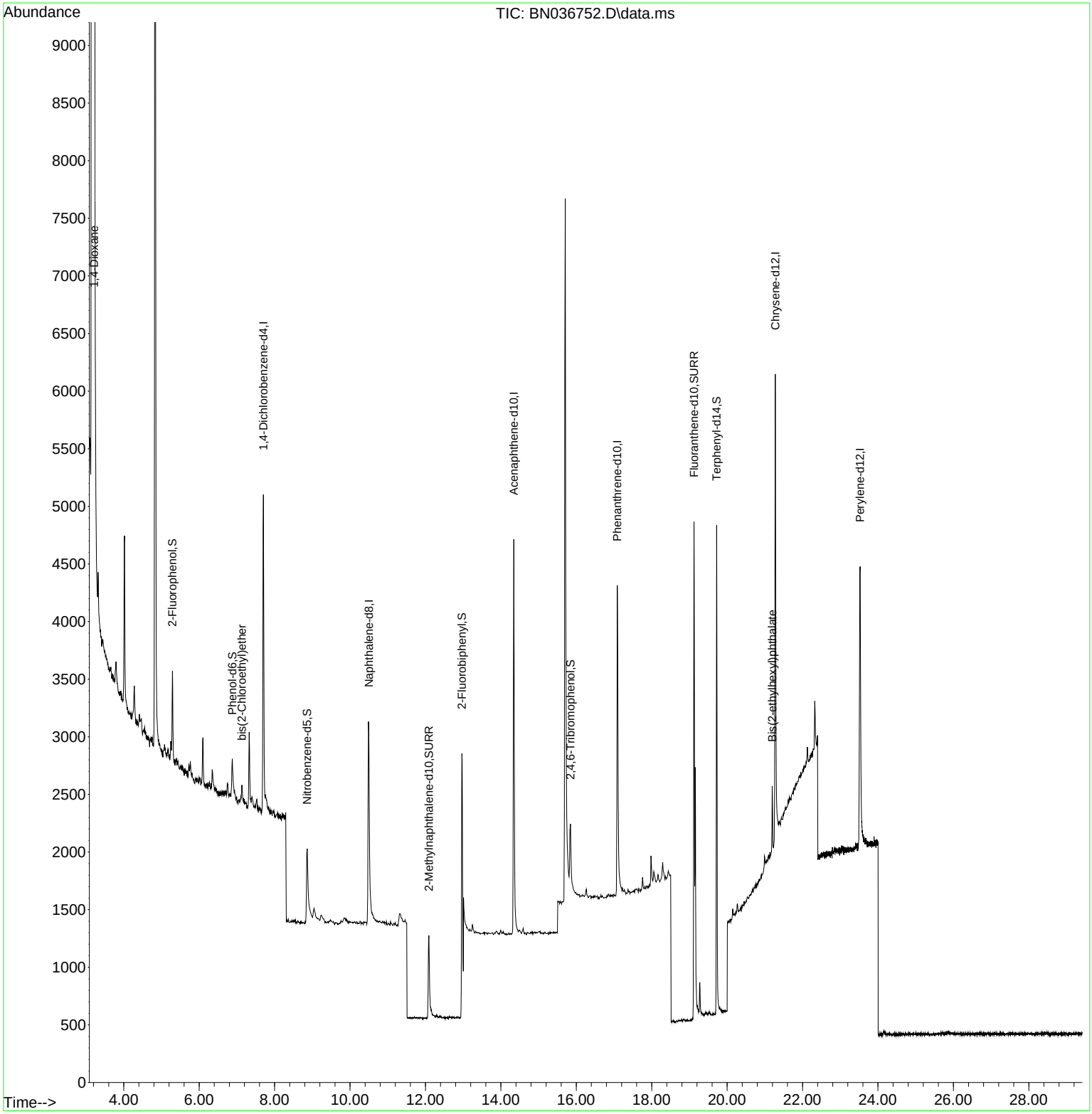
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1467	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	3369	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2179	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4845	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4336	0.400	ng	-0.02
35) Perylene-d12	23.525	264	3908	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	574	0.168	ng	-0.02
5) Phenol-d6	6.879	99	375	0.089	ng	-0.02
8) Nitrobenzene-d5	8.864	82	991	0.270	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1454	0.290	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	413	0.418	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	3905	0.308	ng	-0.02
27) Fluoranthene-d10	19.122	212	5284	0.426	ng	-0.02
31) Terphenyl-d14	19.722	244	4362	0.420	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	5556	3.414	ng	95
6) bis(2-Chloroethyl)ether	7.132	93	117	0.027	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.196	149	571	0.053	ng	96

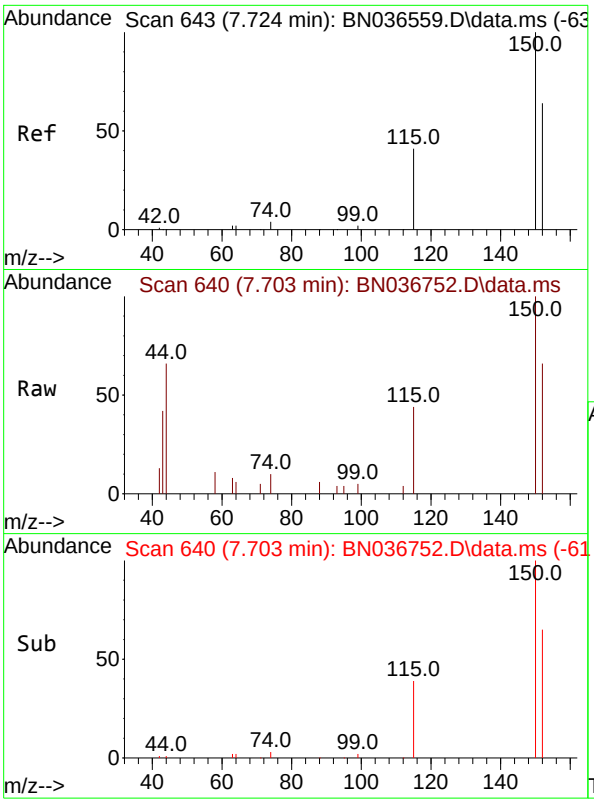
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036752.D
Acq On : 28 Mar 2025 00:03
Operator : RC/JU
Sample : Q1608-19
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Quant Time: Mar 28 00:59:32 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



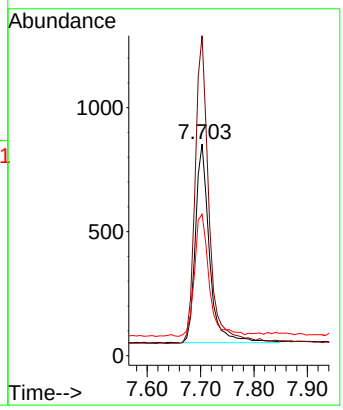


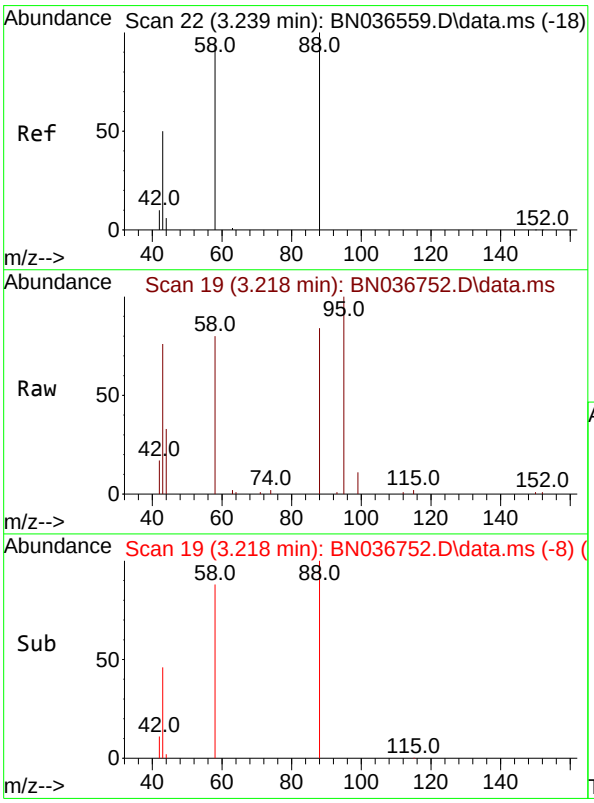
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion:152 Resp: 1467

Ion	Ratio	Lower	Upper
152	100		
150	151.2	123.7	185.5
115	66.8	54.3	81.5

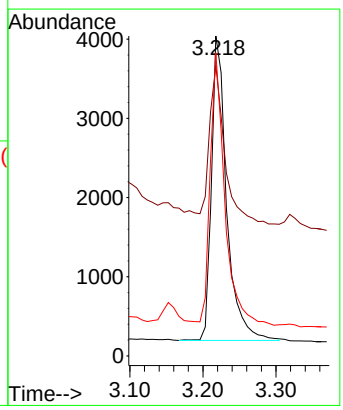


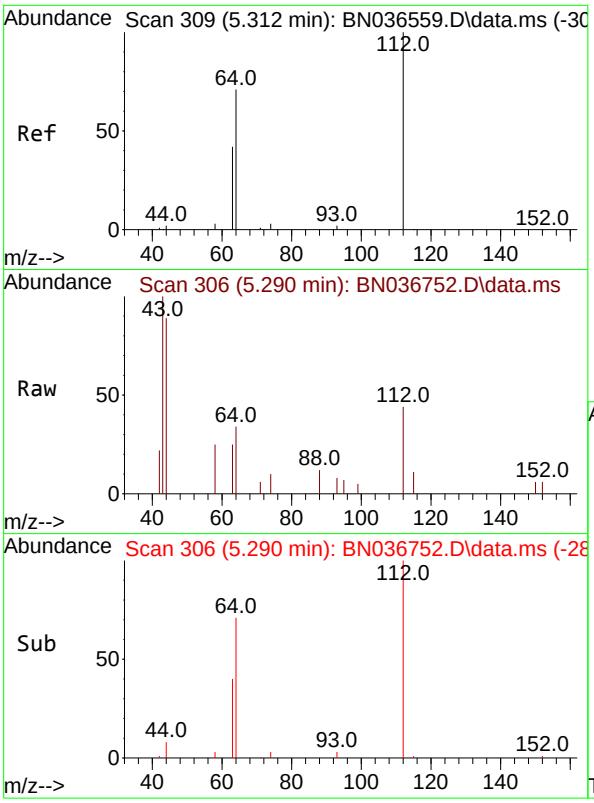


#2
1,4-Dioxane
Concen: 3.414 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Tgt Ion: 88 Resp: 5556

Ion	Ratio	Lower	Upper
88	100		
43	53.8	37.8	56.8
58	86.2	67.4	101.2



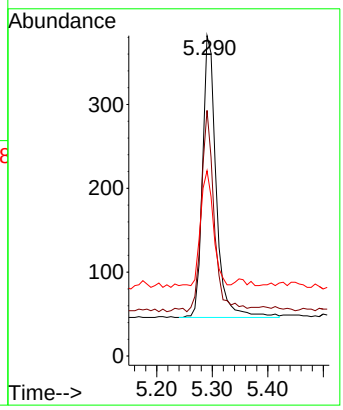


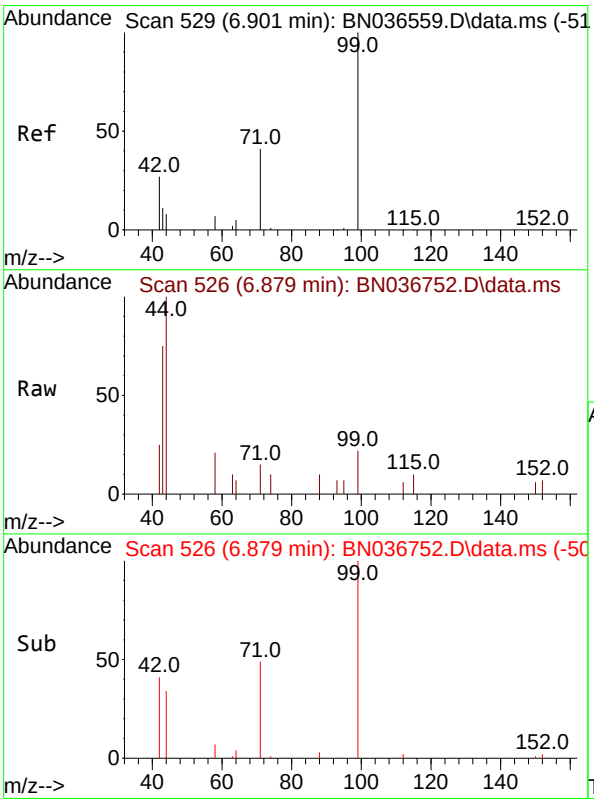
#4
2-Fluorophenol
Concen: 0.168 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion:112 Resp: 574

Ion	Ratio	Lower	Upper
112	100		
64	67.4	53.1	79.7
63	39.0	31.8	47.8

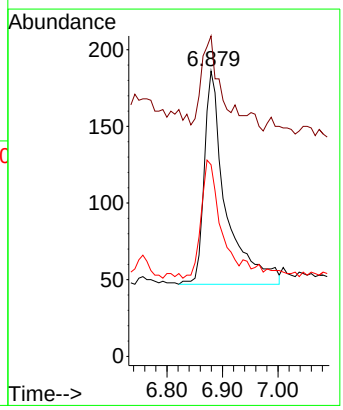


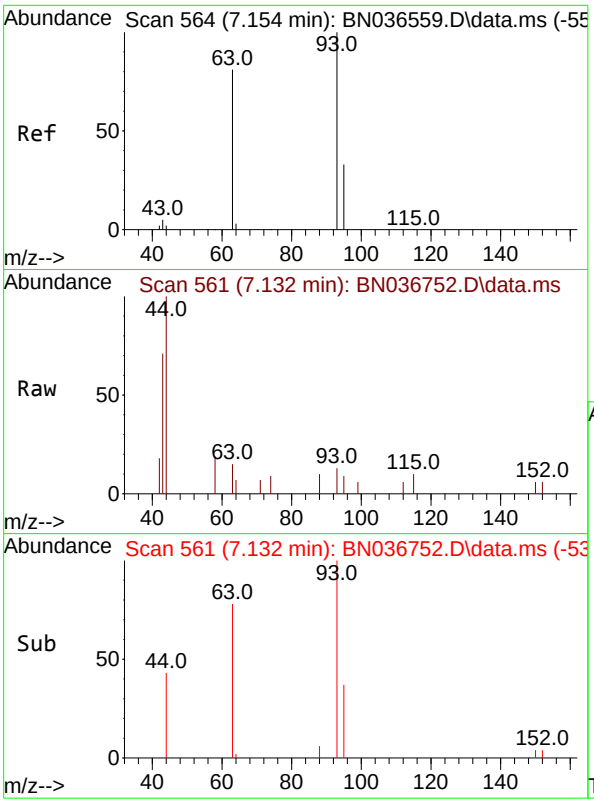


#5
Phenol-d6
Concen: 0.089 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Tgt Ion: 99 Resp: 375

Ion	Ratio	Lower	Upper
99	100		
42	34.1	26.5	39.7
71	49.1	34.1	51.1



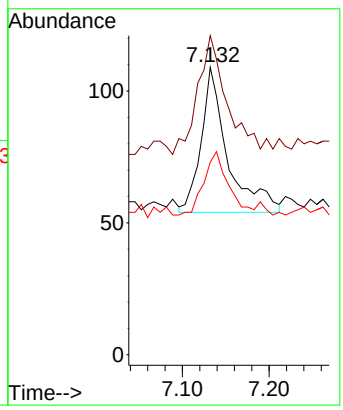


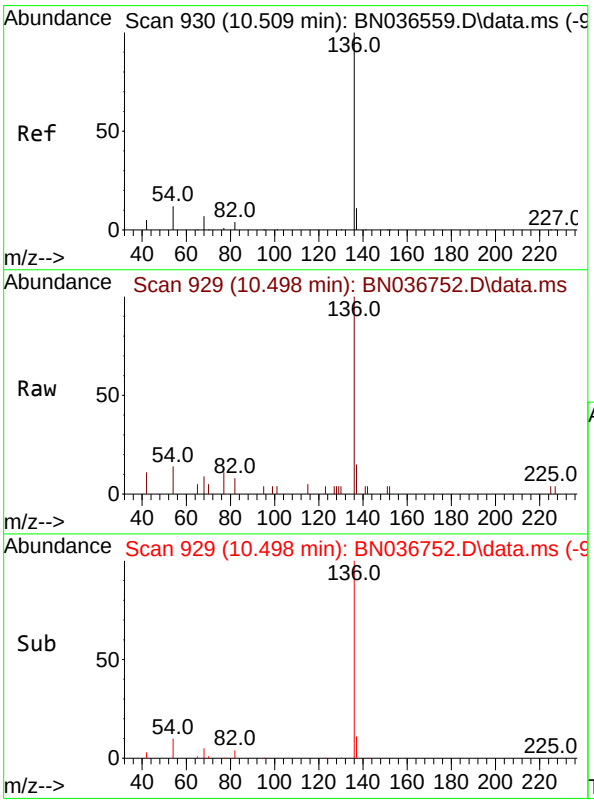
#6
bis(2-Chloroethyl)ether
Concen: 0.027 ng
RT: 7.132 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion: 93 Resp: 117

Ion	Ratio	Lower	Upper
93	100		
63	92.3	67.7	101.5
95	40.2	25.6	38.4#

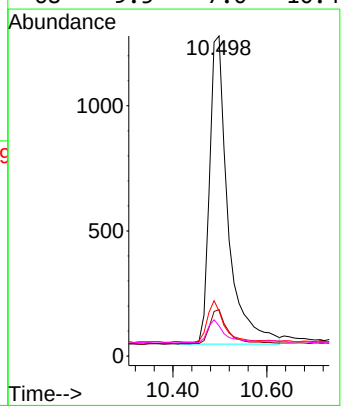


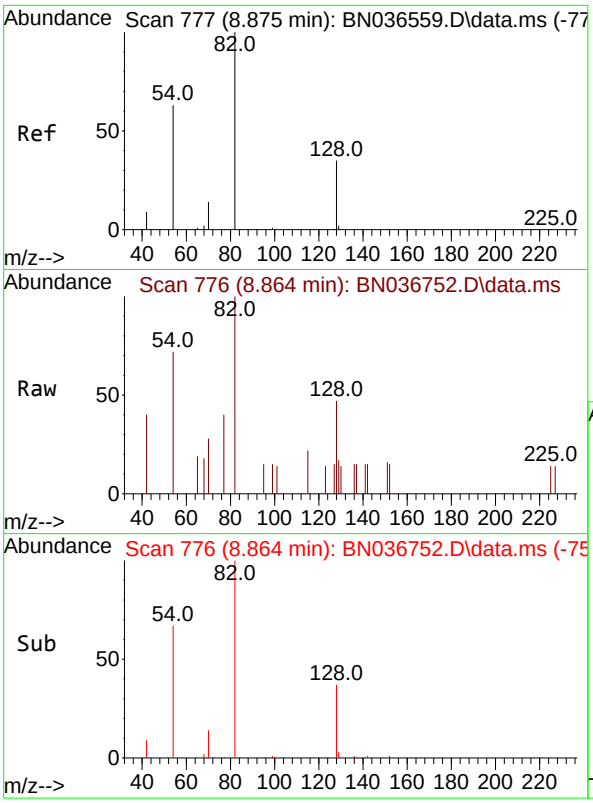


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Tgt Ion:136 Resp: 3369

Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.3	15.5
54	14.1	11.5	17.3
68	9.5	7.0	10.4



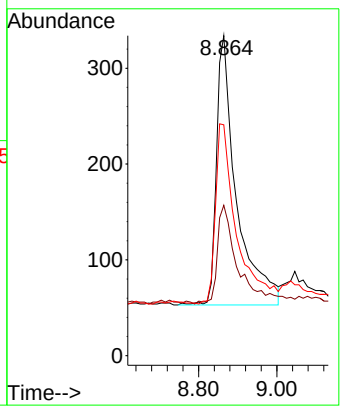


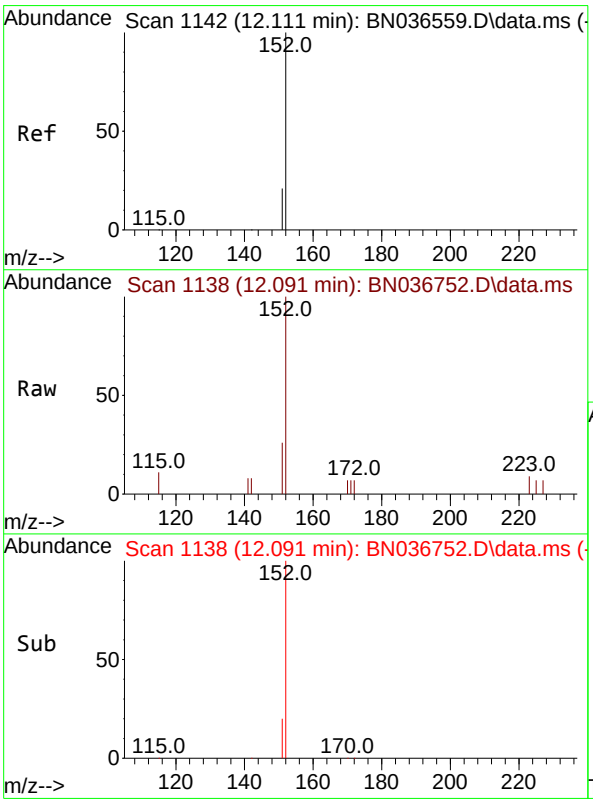
#8
Nitrobenzene-d5
Concen: 0.270 ng
RT: 8.864 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion: 82 Resp: 991

Ion	Ratio	Lower	Upper
82	100		
128	47.0	30.6	45.8#
54	72.2	52.2	78.4

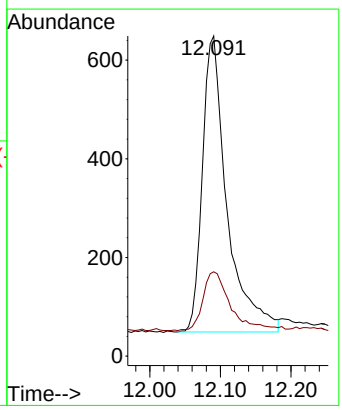


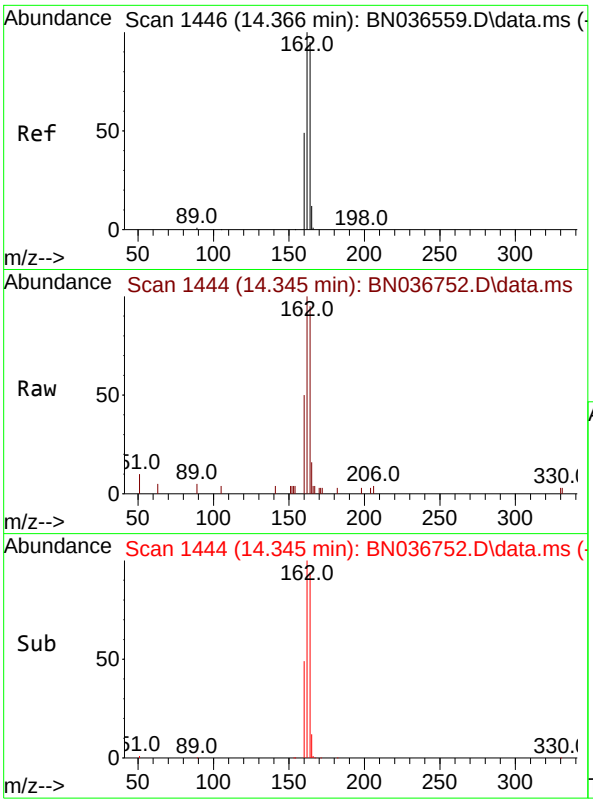


#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.020 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Tgt Ion:152 Resp: 1454

Ion	Ratio	Lower	Upper
152	100		
151	22.2	17.0	25.6



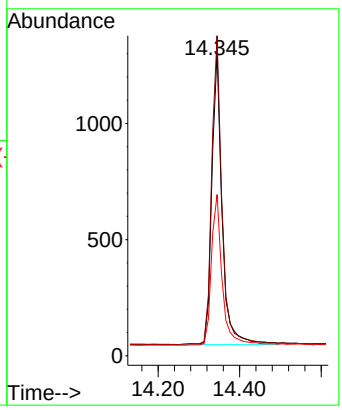


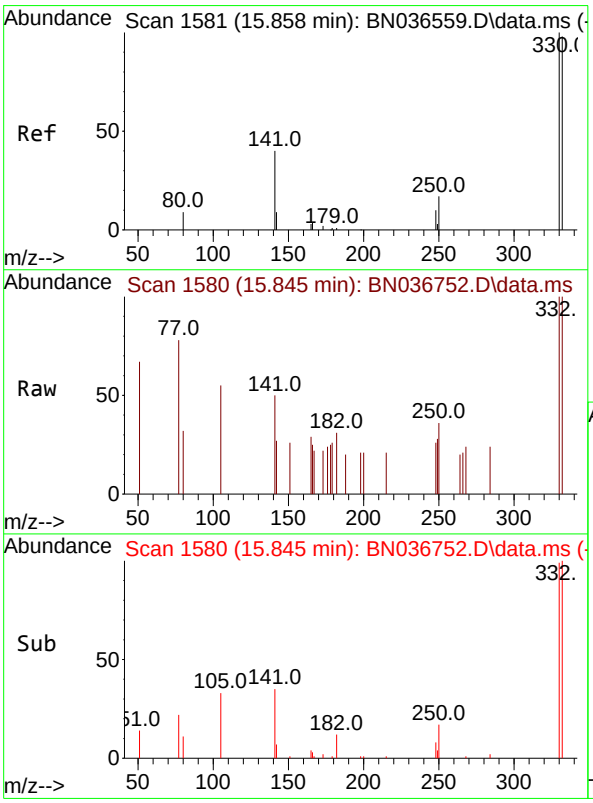
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion:164 Resp: 2179

Ion	Ratio	Lower	Upper
164	100		
162	105.7	84.2	126.2
160	53.2	42.2	63.2

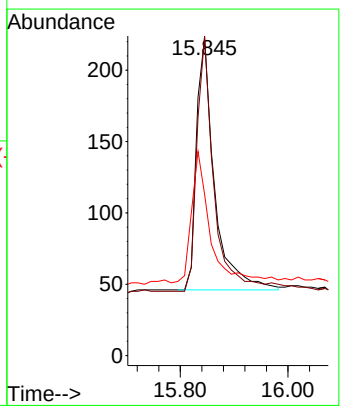


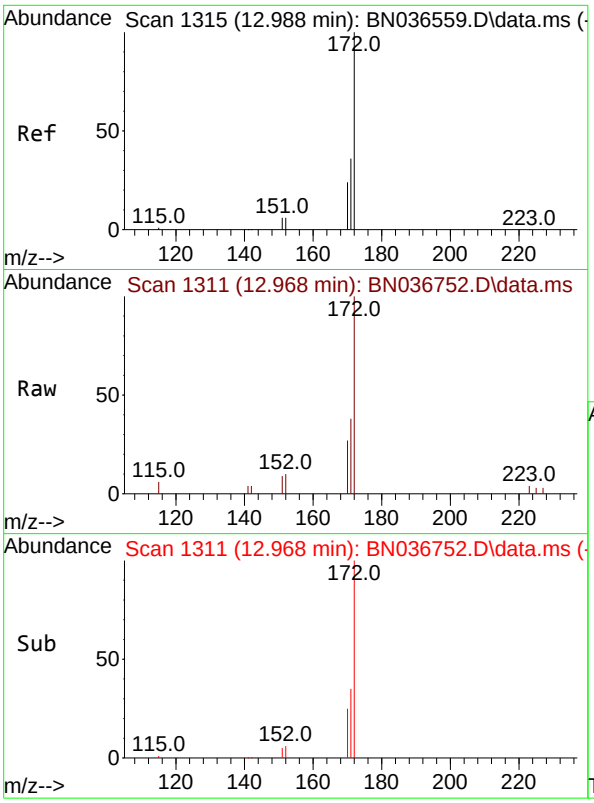


#14
2,4,6-Tribromophenol
Concen: 0.418 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Tgt Ion:330 Resp: 413

Ion	Ratio	Lower	Upper
330	100		
332	96.6	75.2	112.8
141	53.3	43.4	65.2



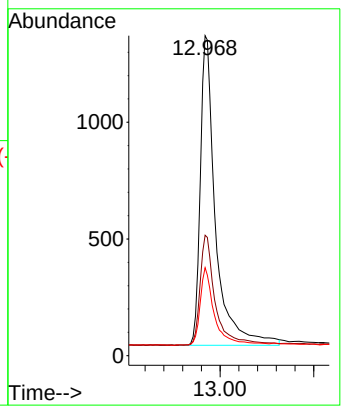


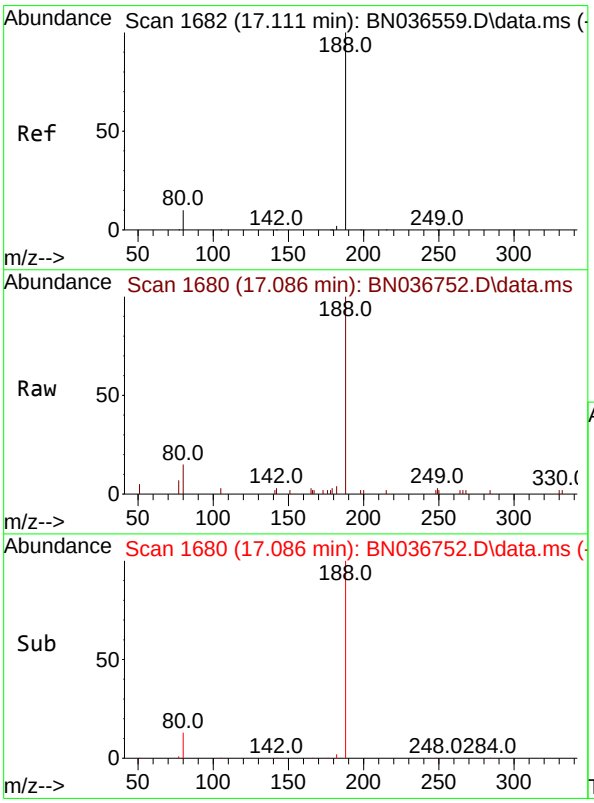
#15
2-Fluorobiphenyl
Concen: 0.308 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion:172 Resp: 3905

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.5	44.3
170	27.5	20.2	30.4

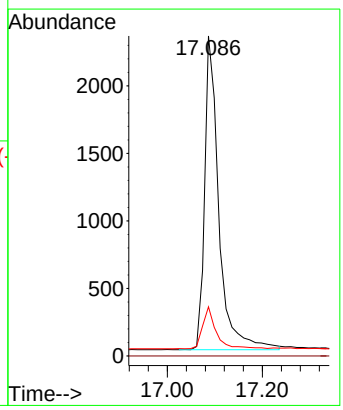


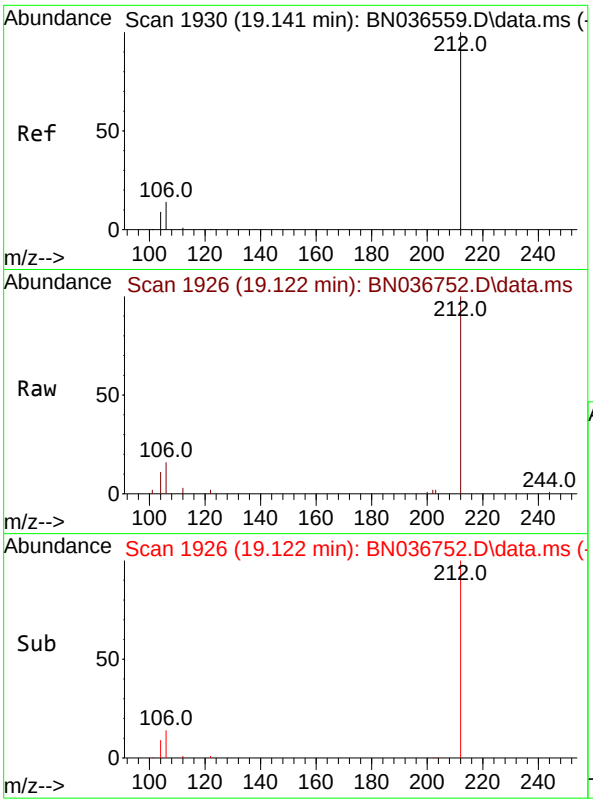


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Tgt Ion:188 Resp: 4845

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.4	8.8	13.2#



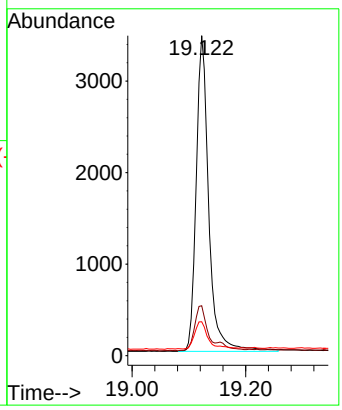


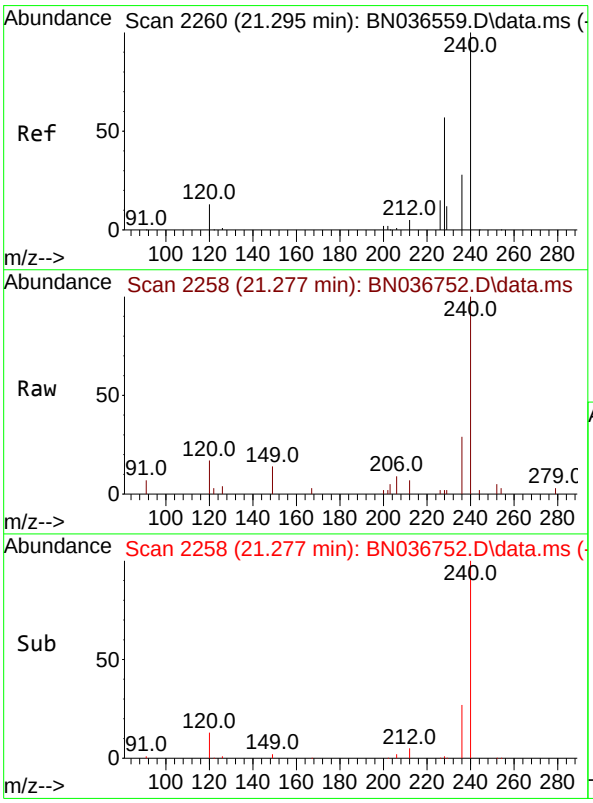
#27
Fluoranthene-d10
Concen: 0.426 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion:212 Resp: 5284

Ion	Ratio	Lower	Upper
212	100		
106	13.9	11.8	17.6
104	9.4	7.3	10.9

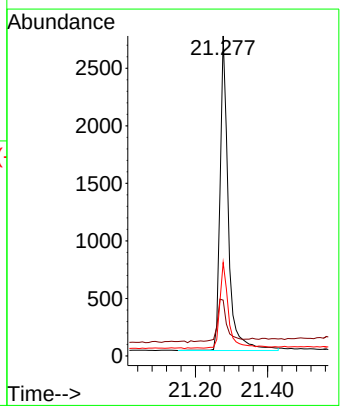


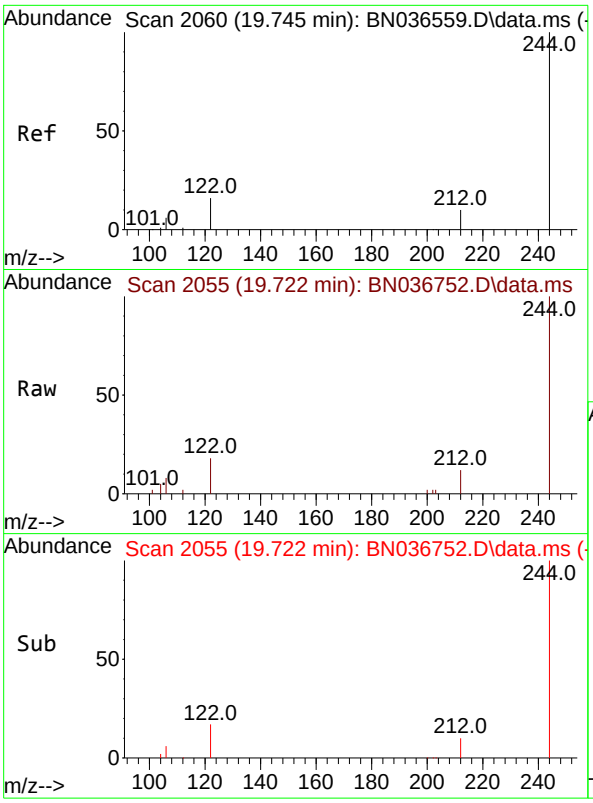


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Tgt Ion:240 Resp: 4336

Ion	Ratio	Lower	Upper
240	100		
120	17.5	14.6	22.0
236	29.2	24.1	36.1



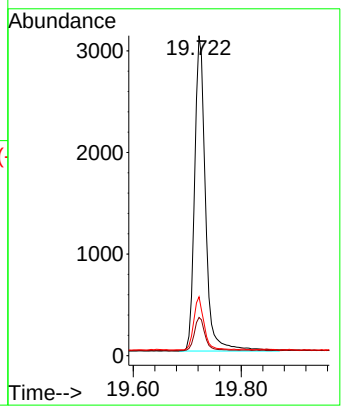


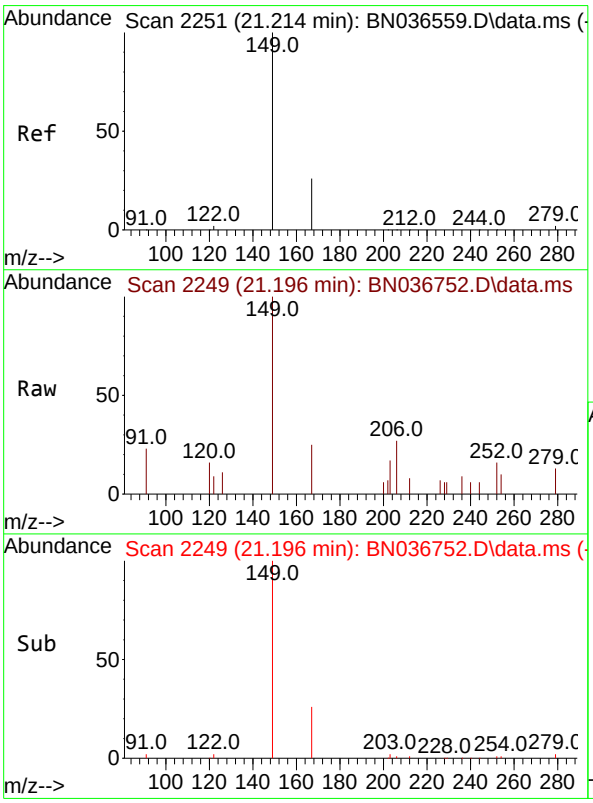
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion:244 Resp: 4362

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	18.4	13.9	20.9

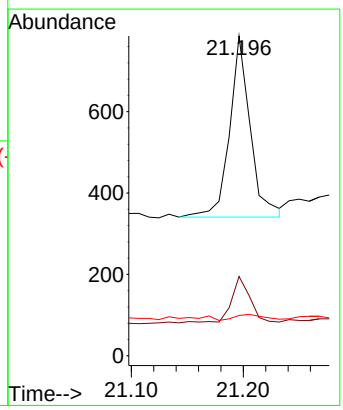


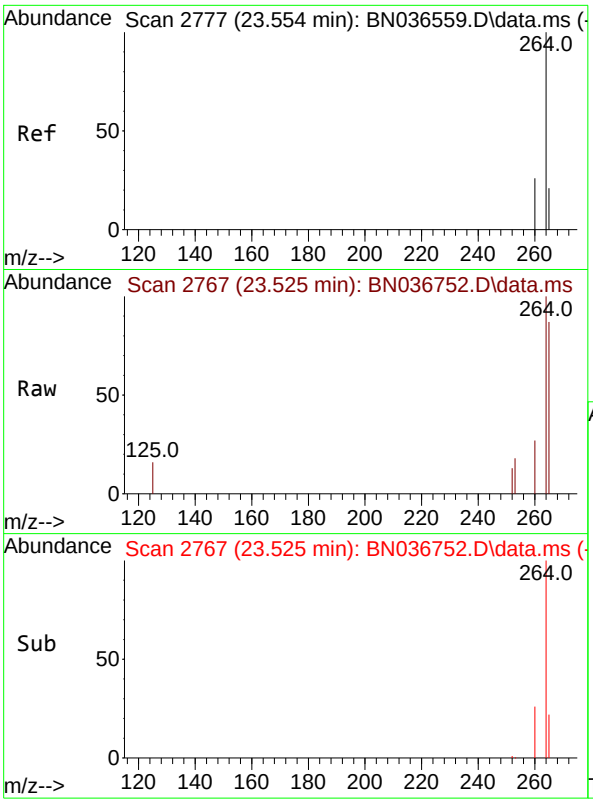


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.053 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Tgt Ion:149 Resp: 571

Ion	Ratio	Lower	Upper
149	100		
167	23.3	20.7	31.1
279	4.7	3.6	5.4



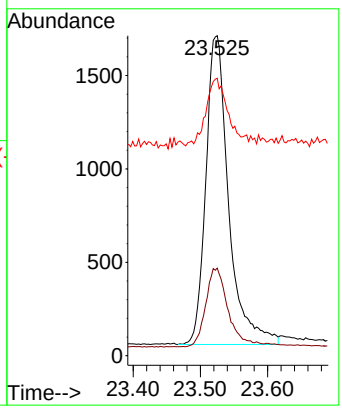


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036752.D
Acq: 28 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE132D7-20250318

Tgt Ion:264 Resp: 3908

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	86.7	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE117D2-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-20	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036753.D	1	03/20/25 10:49	03/28/25 00:39	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1520	7.703				
1146-65-2	Naphthalene-d8	3430	10.498				
15067-26-2	Acenaphthene-d10	2300	14.345				
1517-22-2	Phenanthrene-d10	4870	17.086				
1719-03-5	Chrysene-d12	4220	21.277				
1520-96-3	Perylene-d12	3720	23.522				

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\BN032725\
Data File : BN036753.D
Acq On : 28 Mar 2025 00:39
Operator : RC/JU
Sample : Q1608-20
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 28 01:20:26 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 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1517	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	3430	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2301	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4871	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4219	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3720	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	538	0.152	ng	-0.02
5) Phenol-d6	6.879	99	348	0.080	ng	-0.02
8) Nitrobenzene-d5	8.865	82	1019m	0.273	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1616	0.317	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	430	0.412	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	3874	0.289	ng	-0.02
27) Fluoranthene-d10	19.122	212	5370	0.430	ng	-0.02
31) Terphenyl-d14	19.722	244	4233	0.419	ng	-0.02
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.196	149	518	0.050	ng	95

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

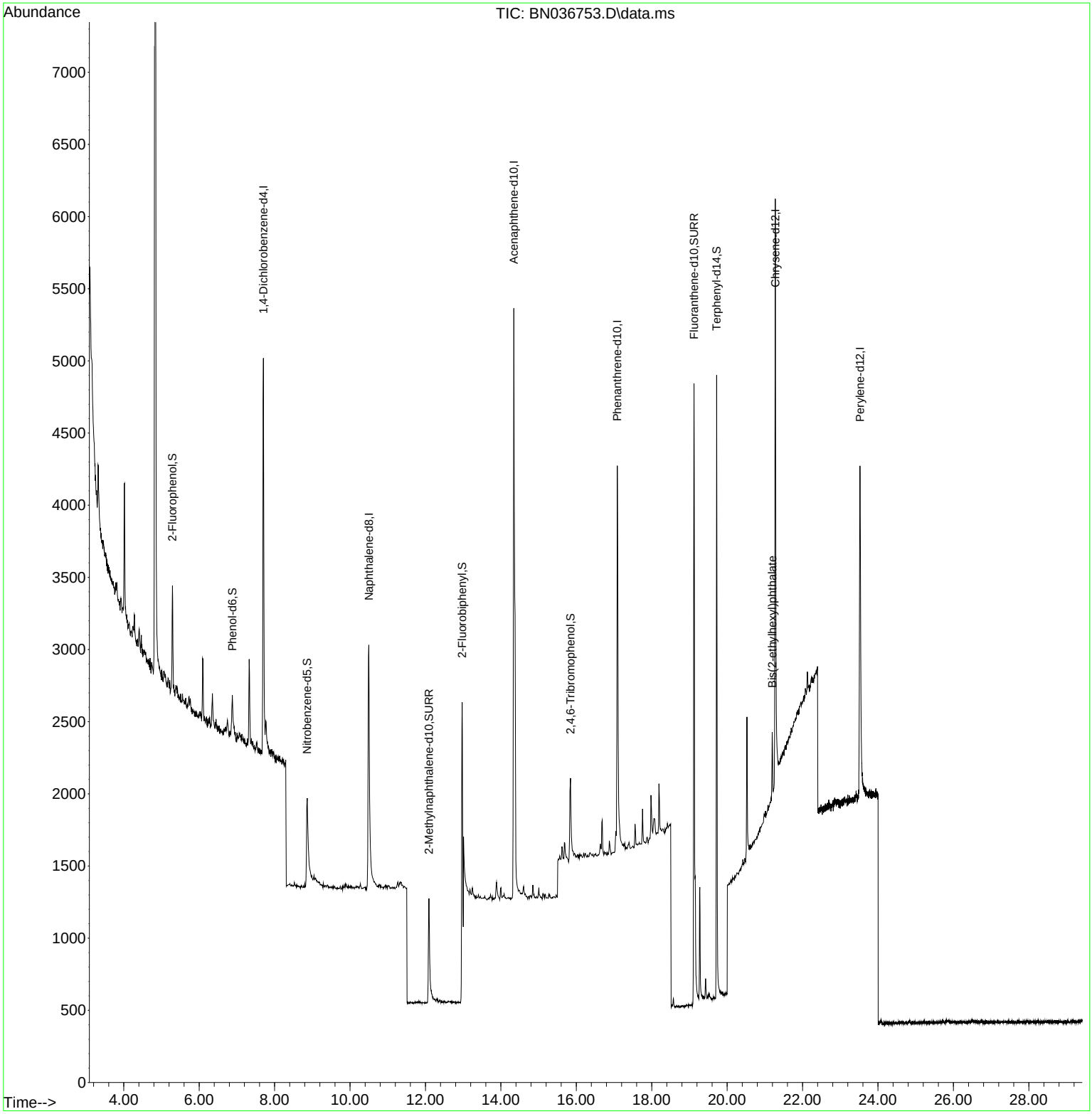
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036753.D
Acq On : 28 Mar 2025 00:39
Operator : RC/JU
Sample : Q1608-20
Misc :
ALS Vial : 17 Sample Multiplier: 1

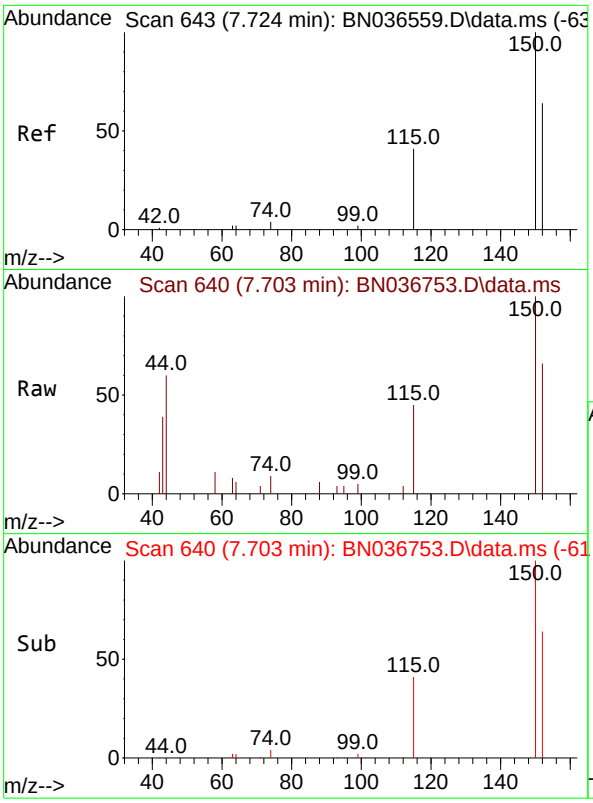
Quant Time: Mar 28 01:20:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
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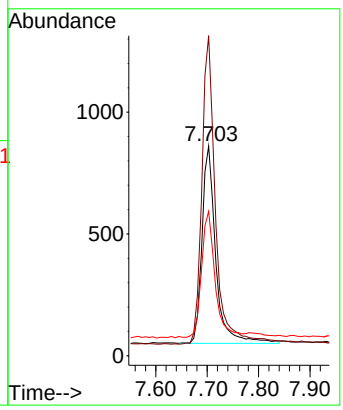




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:152 Resp: 151

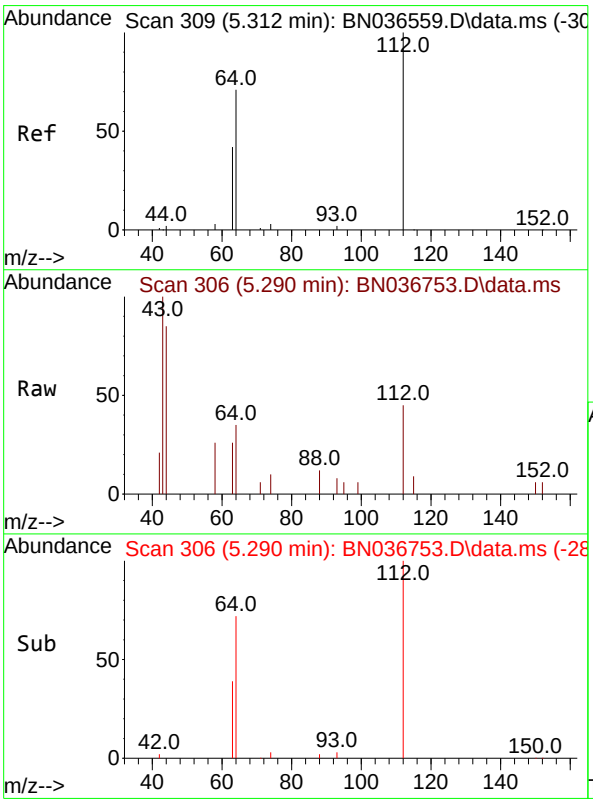
Ion	Ratio	Lower	Upper
152	100		
150	152.6	123.7	185.5
115	68.9	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Manual Integrations
APPROVED

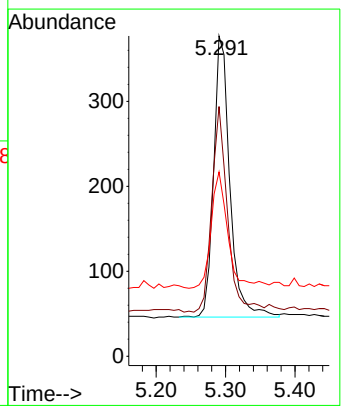
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

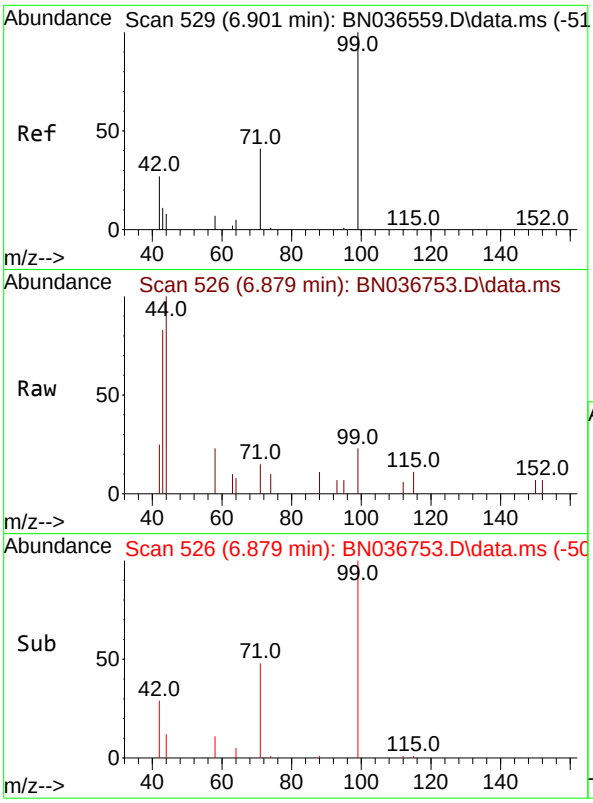


#4
2-Fluorophenol
Concen: 0.152 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:112 Resp: 538

Ion	Ratio	Lower	Upper
112	100		
64	70.6	53.1	79.7
63	42.9	31.8	47.8

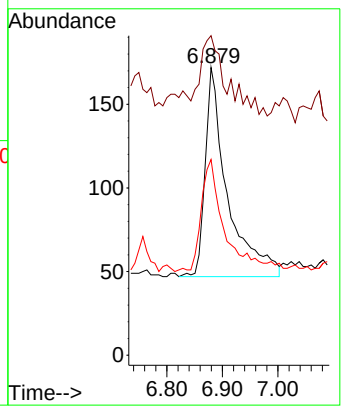




#5
Phenol-d6
Concen: 0.080 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion: 99 Resp: 34

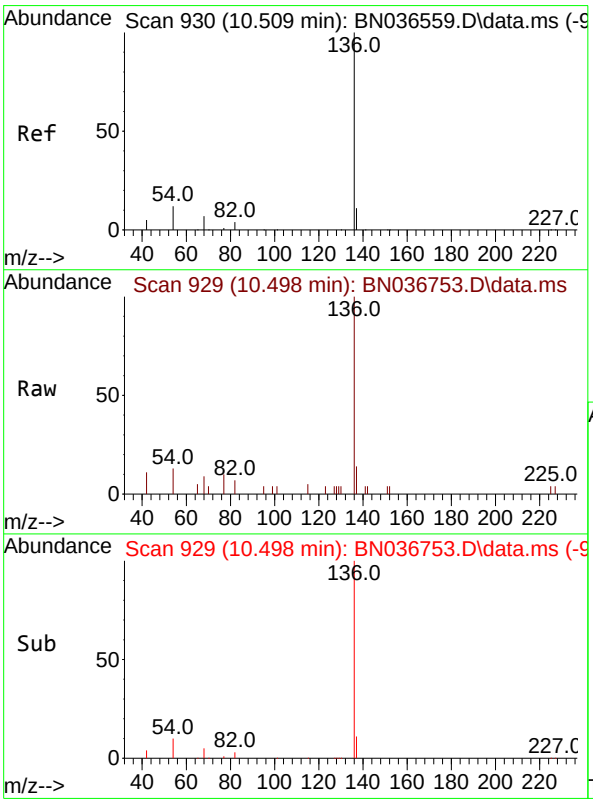
Ion	Ratio	Lower	Upper
99	100		
42	24.1	26.5	39.7#
71	54.6	34.1	51.1#



Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Manual Integrations
APPROVED

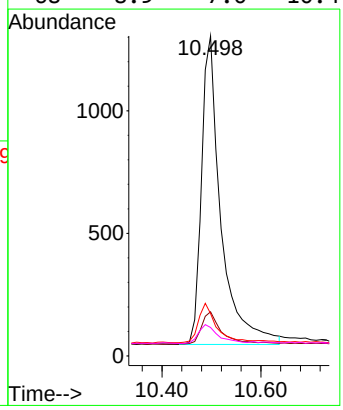
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

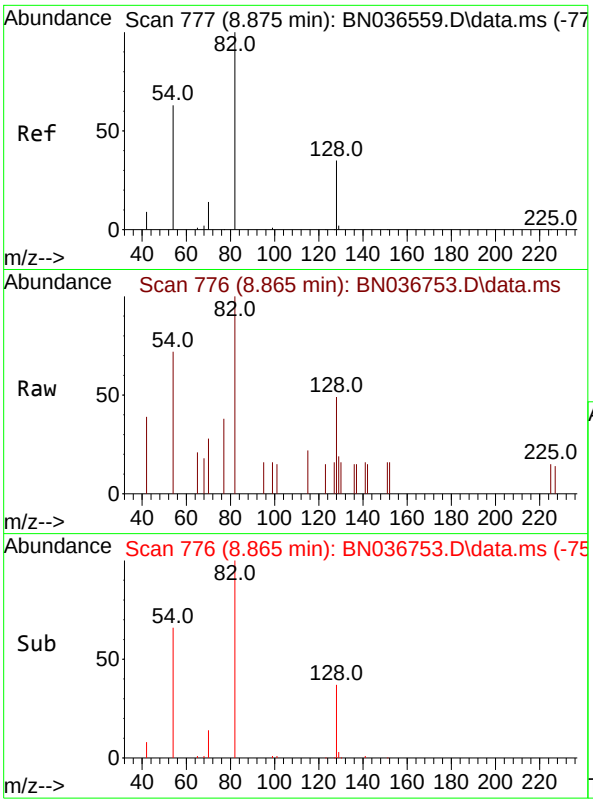


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:136 Resp: 3430

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	13.3	11.5	17.3
68	8.9	7.0	10.4

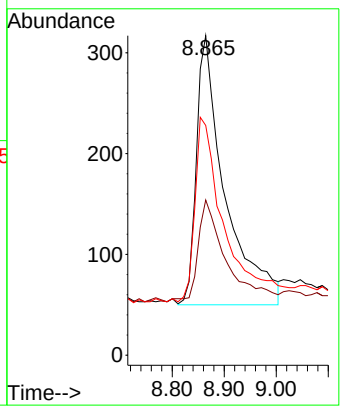




#8
Nitrobenzene-d5
Concen: 0.273 ng m
RT: 8.865 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

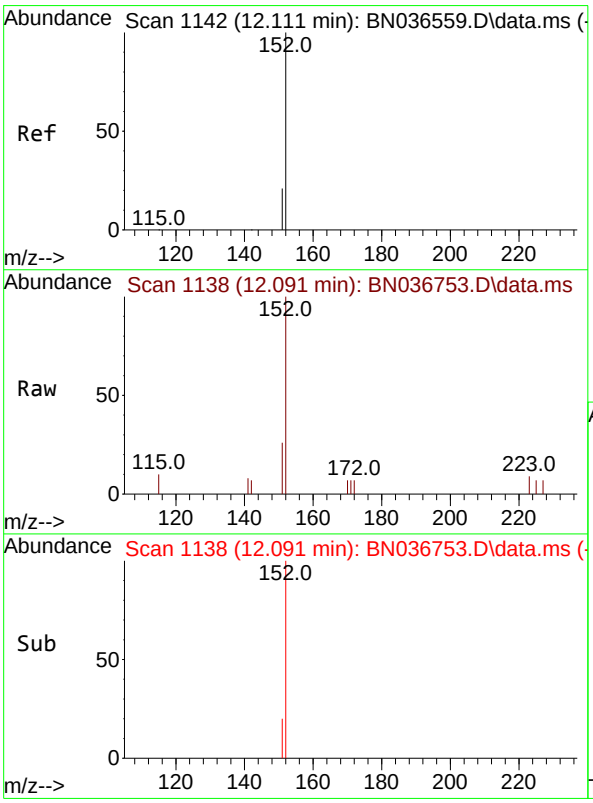
Tgt Ion: 82 Resp: 101

Ion	Ratio	Lower	Upper
82	100		
128	48.6	30.6	45.8
54	71.9	52.2	78.4



Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

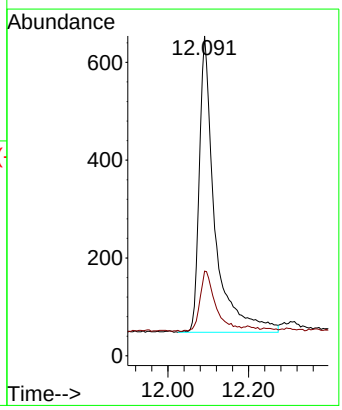
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

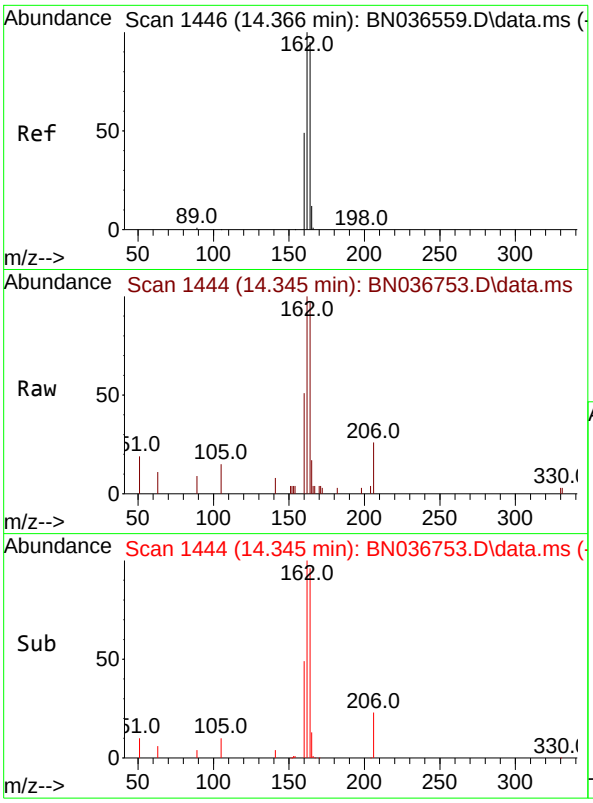


#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.020 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:152 Resp: 1616

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.0	25.6

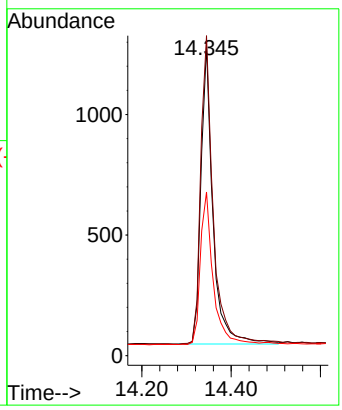




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

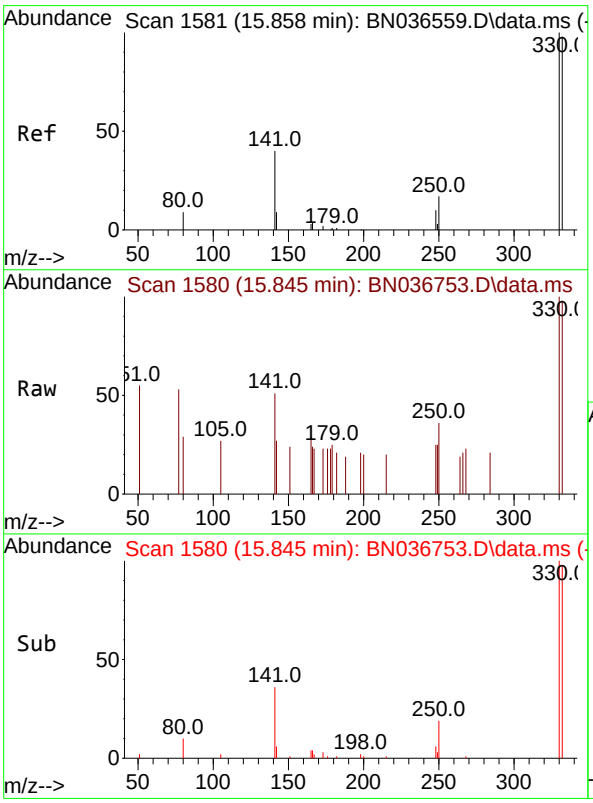
Tgt Ion:164 Resp: 230

Ion	Ratio	Lower	Upper
164	100		
162	103.4	84.2	126.2
160	52.9	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

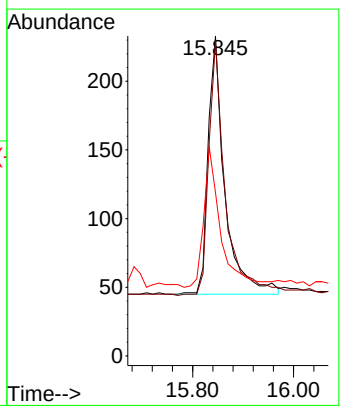
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

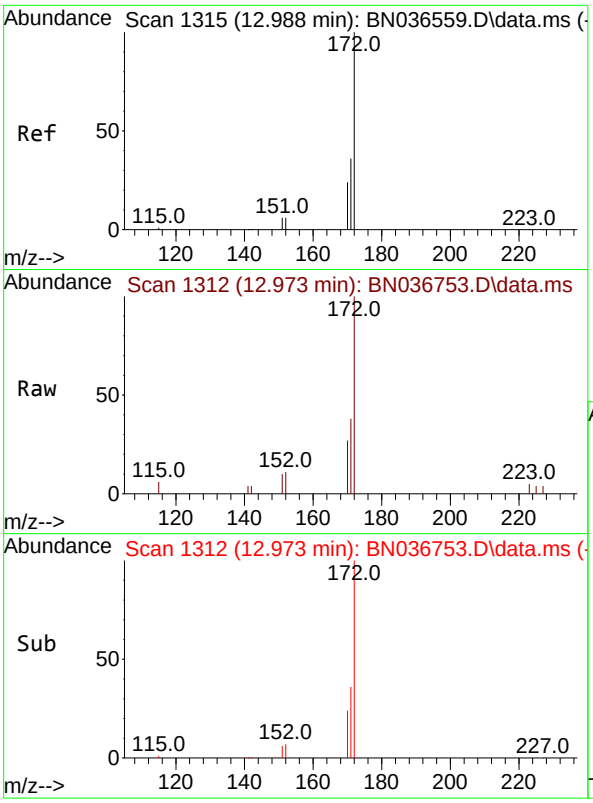


#14
2,4,6-Tribromophenol
Concen: 0.412 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:330 Resp: 430

Ion	Ratio	Lower	Upper
330	100		
332	99.8	75.2	112.8
141	54.7	43.4	65.2

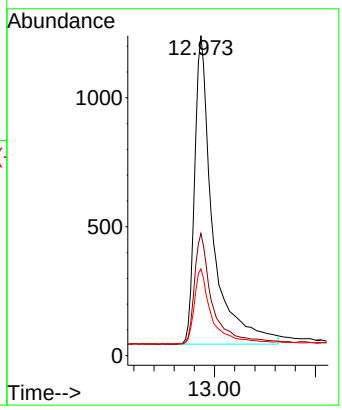




#15
2-Fluorobiphenyl
Concen: 0.289 ng
RT: 12.973 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:172 Resp: 387

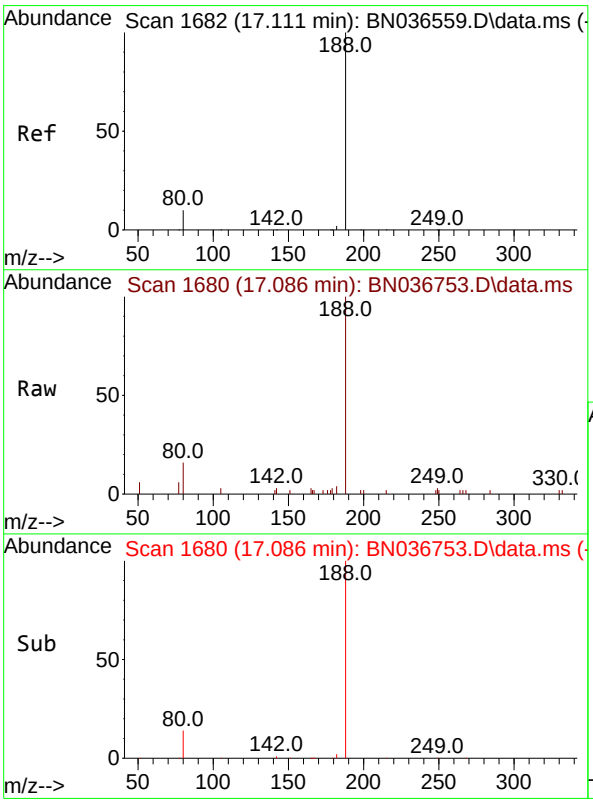
Ion	Ratio	Lower	Upper
172	100		
171	38.2	29.5	44.3
170	27.2	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Manual Integrations
APPROVED

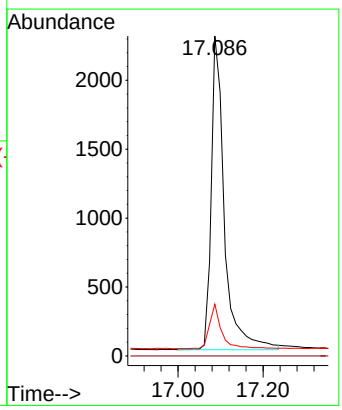
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

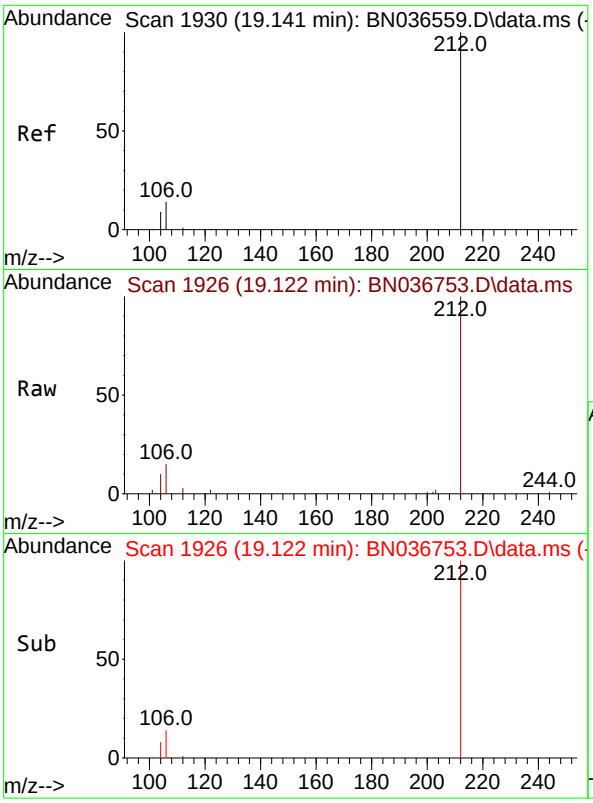


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:188 Resp: 4871

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.2	8.8	13.2#

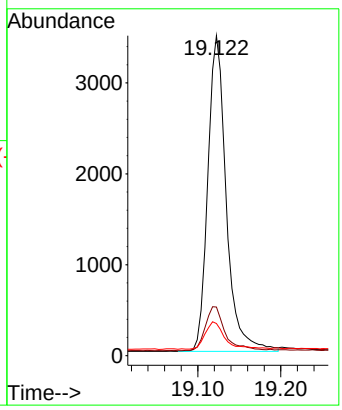




#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:212 Resp: 537

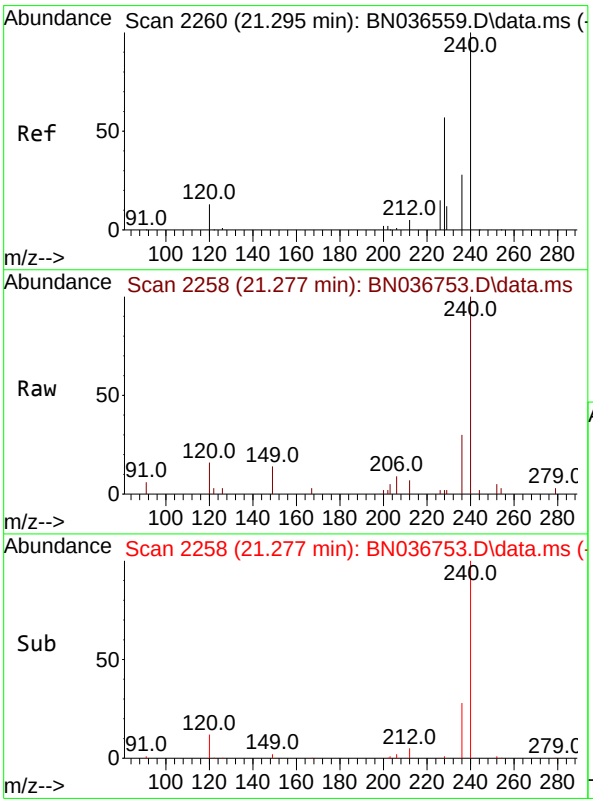
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.2	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Manual Integrations
APPROVED

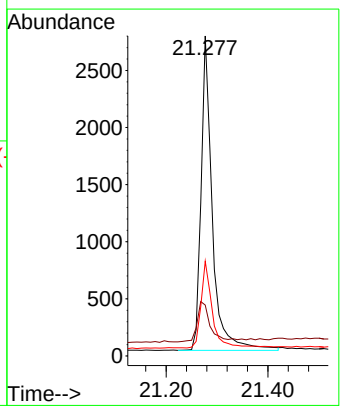
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

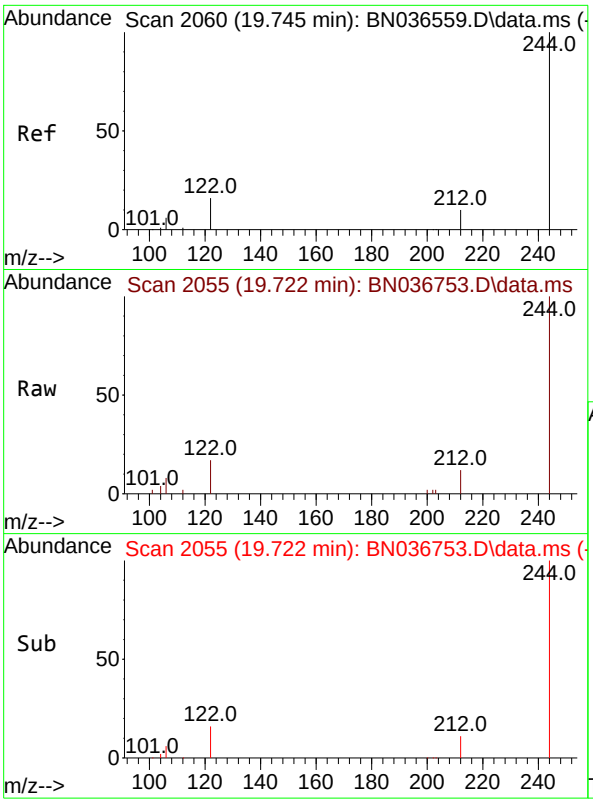


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:240 Resp: 4219

Ion	Ratio	Lower	Upper
240	100		
120	15.9	14.6	22.0
236	29.6	24.1	36.1

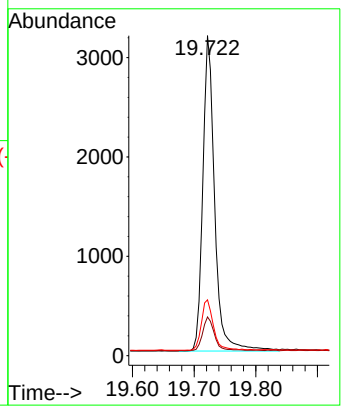




#31
Terphenyl-d14
Concen: 0.419 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:244 Resp: 423

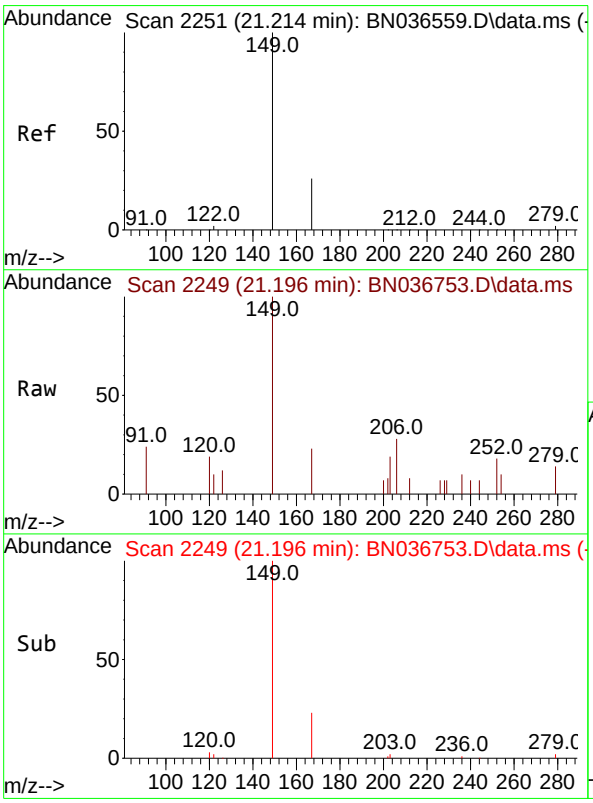
Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	17.4	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Manual Integrations
APPROVED

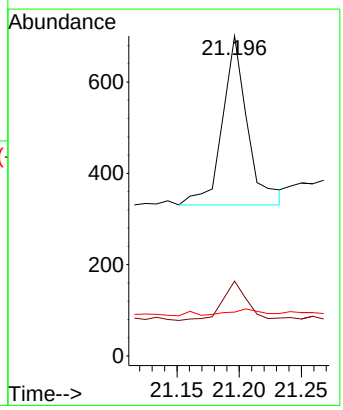
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

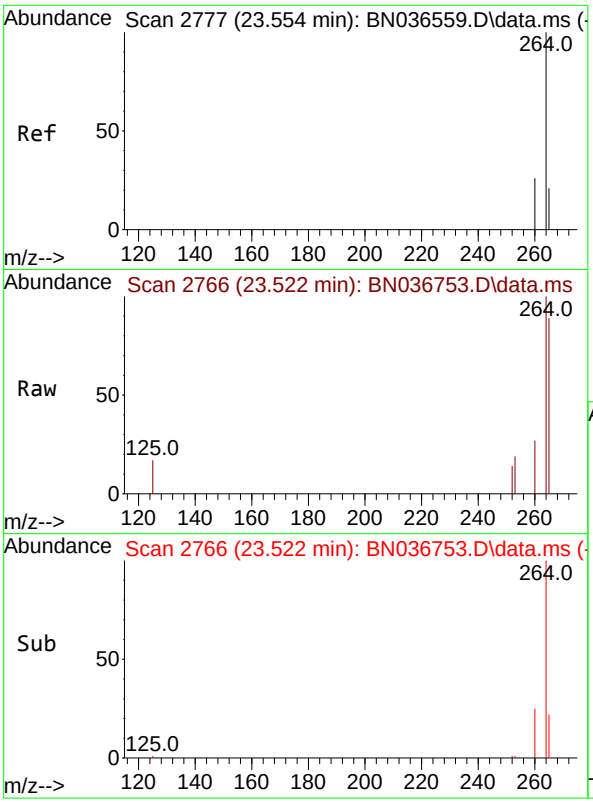


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.050 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:149 Resp: 518

Ion	Ratio	Lower	Upper
149	100		
167	22.8	20.7	31.1
279	4.8	3.6	5.4

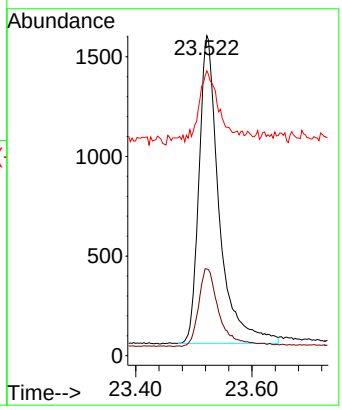




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:264 Resp: 372

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	89.0	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	TT101D2-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-21	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	890 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036759.D	1	03/21/25 08:40	03/28/25 04:58	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.30		0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1530	7.703				
1146-65-2	Naphthalene-d8	3420	10.498				
15067-26-2	Acenaphthene-d10	2100	14.345				
1517-22-2	Phenanthrene-d10	4520	17.086				
1719-03-5	Chrysene-d12	3640	21.277				
1520-96-3	Perylene-d12	3270	23.519				

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\BN032725\
Data File : BN036759.D
Acq On : 28 Mar 2025 04:58
Operator : RC/JU
Sample : Q1608-21
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Quant Time: Mar 28 05:37:35 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

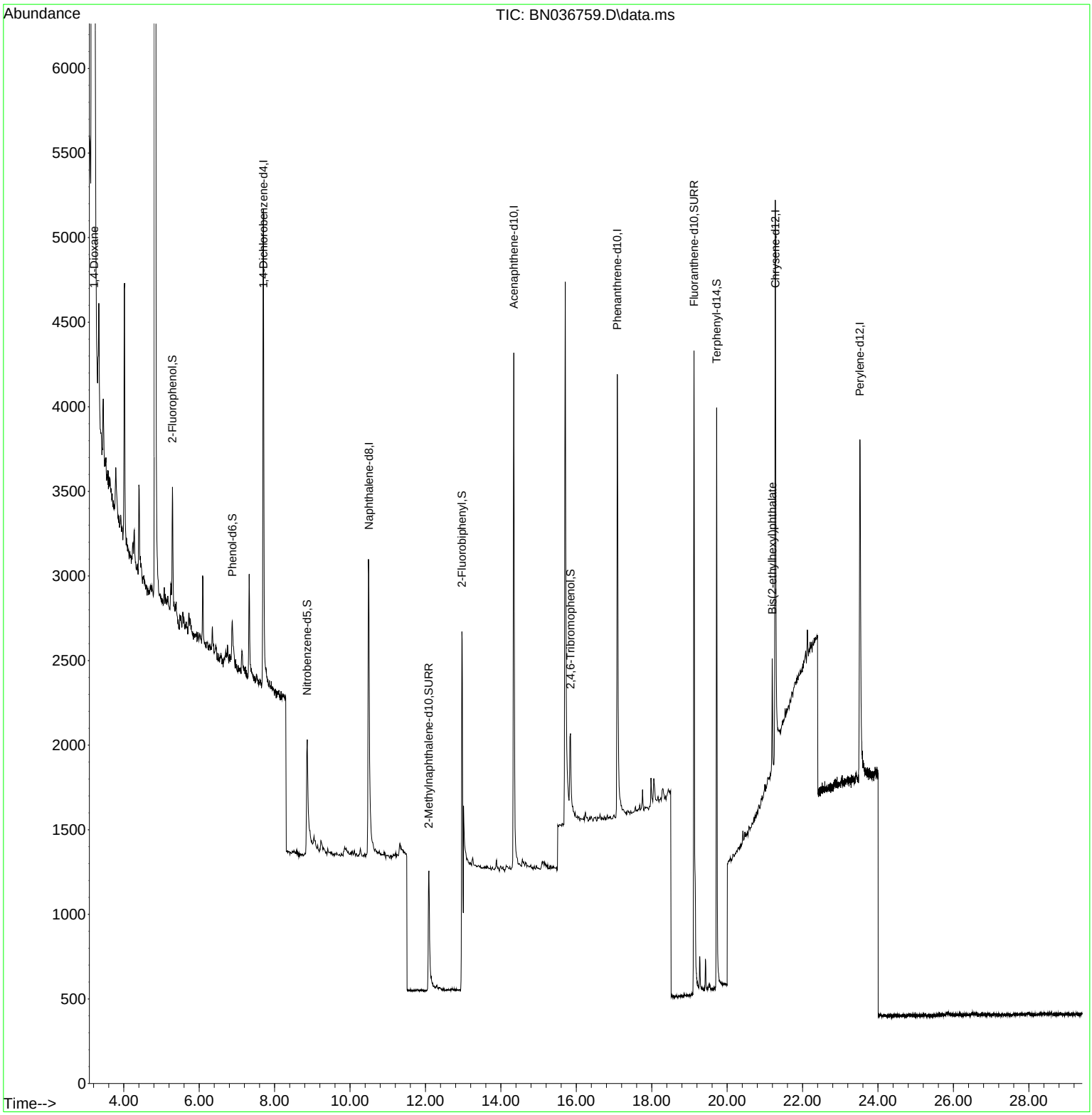
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1526	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	3415	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2100	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4518	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3643	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3268	0.400	ng	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	506	0.142	ng	-0.02
5) Phenol-d6	6.879	99	319	0.073	ng	-0.02
8) Nitrobenzene-d5	8.864	82	1065	0.287	ng	-0.01
11) 2-Methylnaphthalene-d10	12.085	152	1546	0.304	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	372	0.390	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	3790	0.310	ng	-0.02
27) Fluoranthene-d10	19.122	212	4749	0.410	ng	-0.02
31) Terphenyl-d14	19.722	244	3529	0.404	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	6431	3.799	ng	94
34) Bis(2-ethylhexyl)phtha...	21.196	149	667	0.074	ng	94

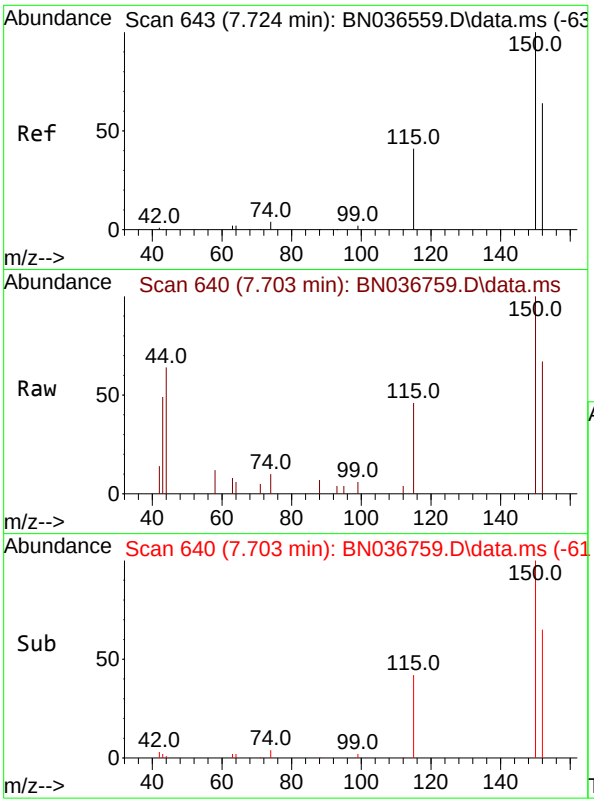
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036759.D
Acq On : 28 Mar 2025 04:58
Operator : RC/JU
Sample : Q1608-21
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Quant Time: Mar 28 05:37:35 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



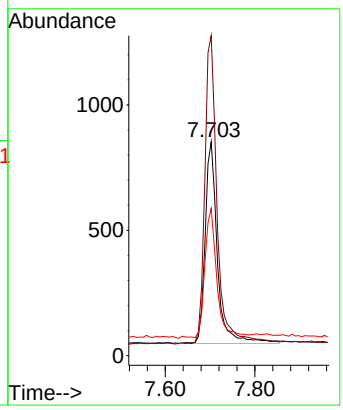


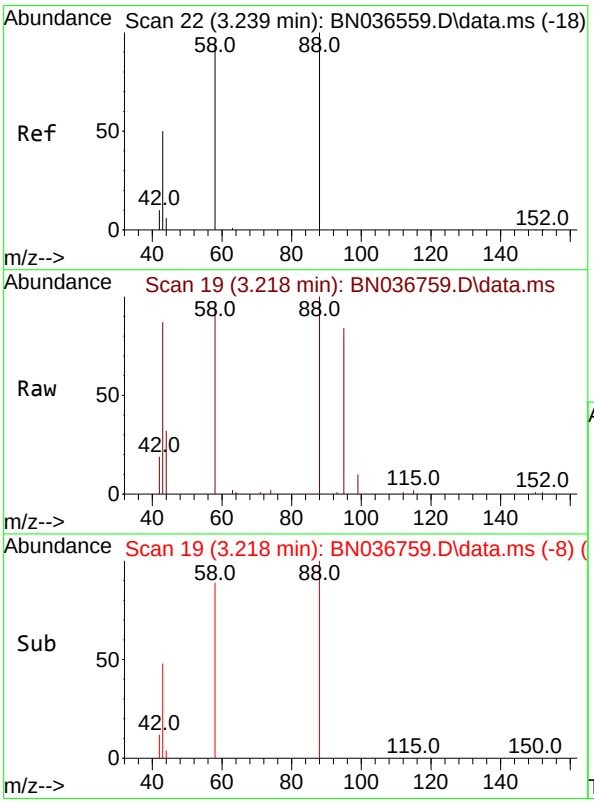
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Tgt Ion:152 Resp: 1526

Ion	Ratio	Lower	Upper
152	100		
150	149.6	123.7	185.5
115	68.9	54.3	81.5

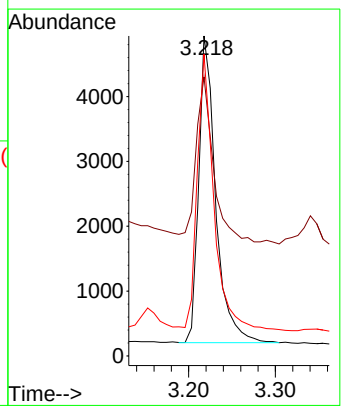


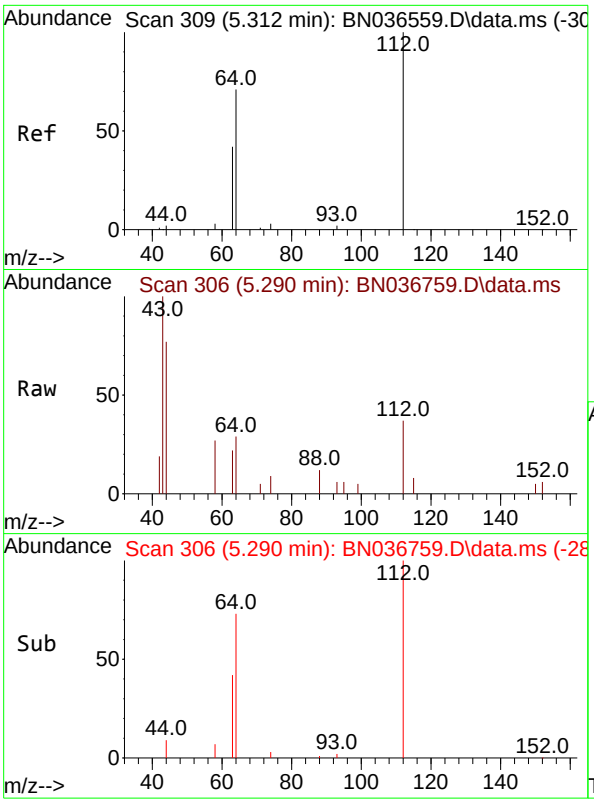


#2
1,4-Dioxane
Concen: 3.799 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Tgt Ion: 88 Resp: 6431

Ion	Ratio	Lower	Upper
88	100		
43	54.7	37.8	56.8
58	87.9	67.4	101.2



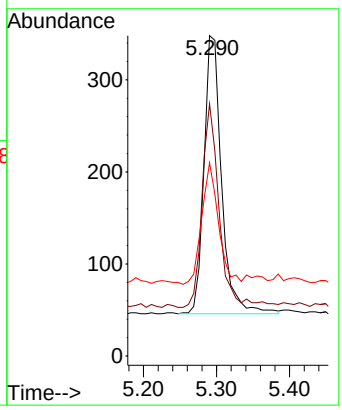


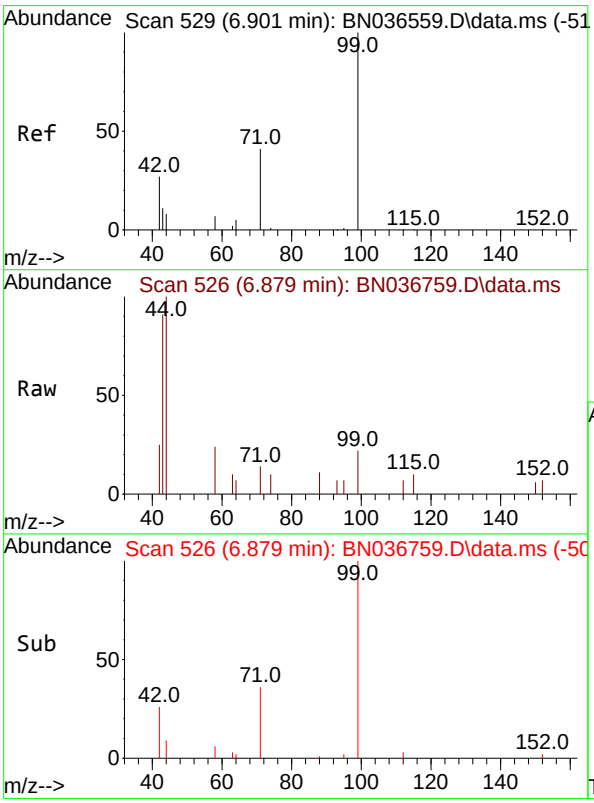
#4
2-Fluorophenol
Concen: 0.142 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Tgt Ion:112 Resp: 506

Ion	Ratio	Lower	Upper
112	100		
64	71.3	53.1	79.7
63	41.5	31.8	47.8

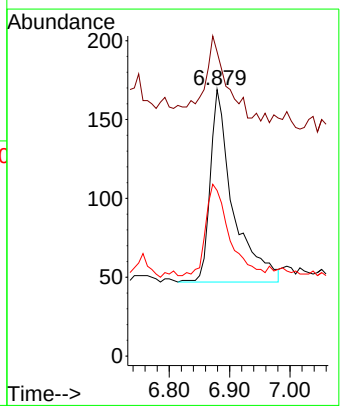


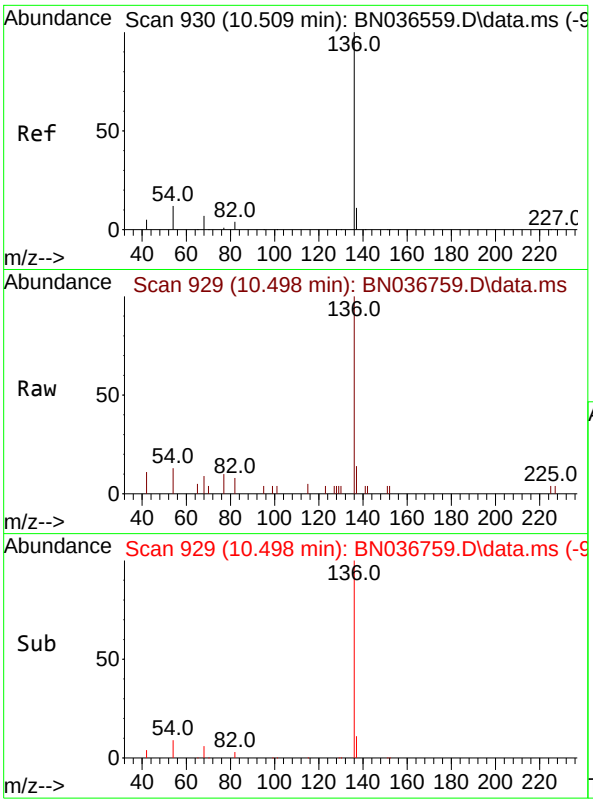


#5
Phenol-d6
Concen: 0.073 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Tgt Ion: 99 Resp: 319

Ion	Ratio	Lower	Upper
99	100		
42	37.9	26.5	39.7
71	48.9	34.1	51.1



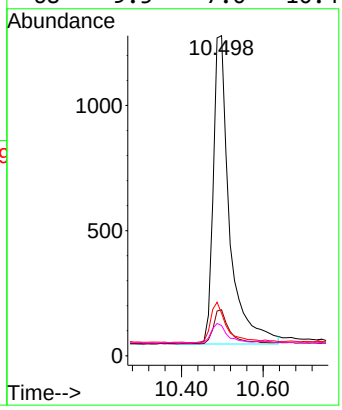


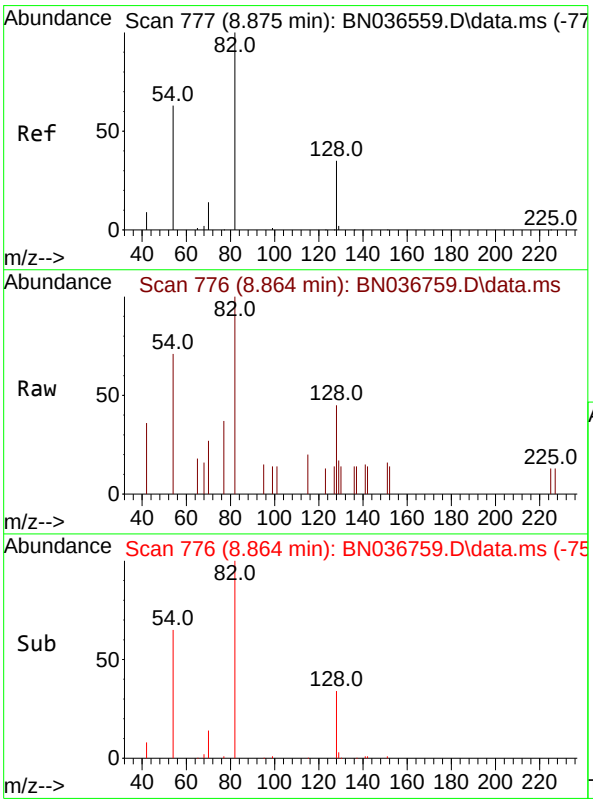
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Tgt Ion:136 Resp: 3415

Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.3	15.5
54	13.3	11.5	17.3
68	9.5	7.0	10.4

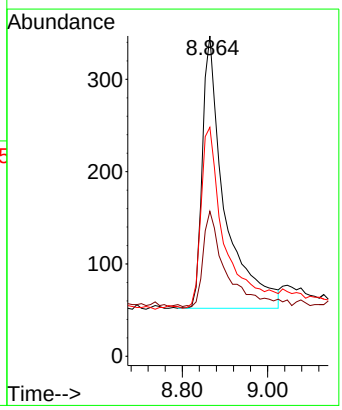


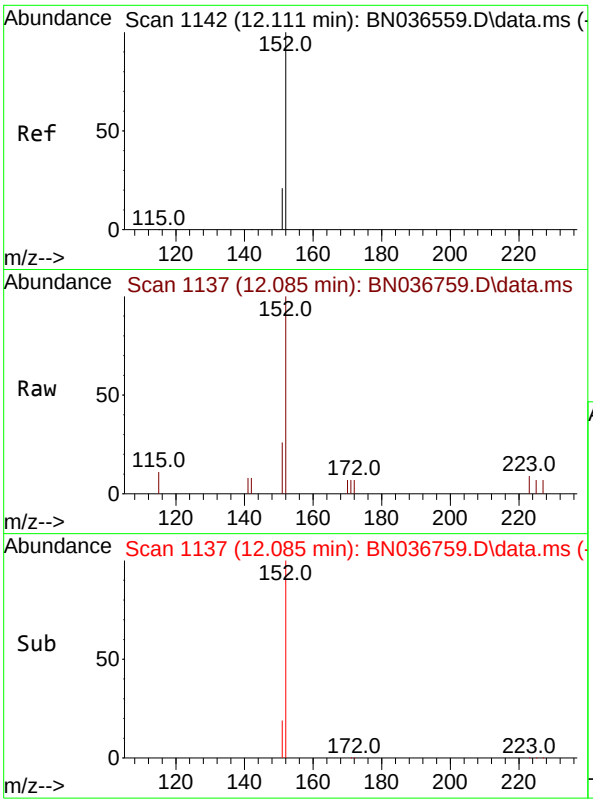


#8
Nitrobenzene-d5
Concen: 0.287 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Tgt Ion: 82 Resp: 1065

Ion	Ratio	Lower	Upper
82	100		
128	45.2	30.6	45.8
54	71.5	52.2	78.4



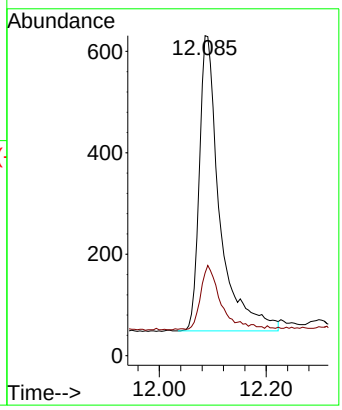


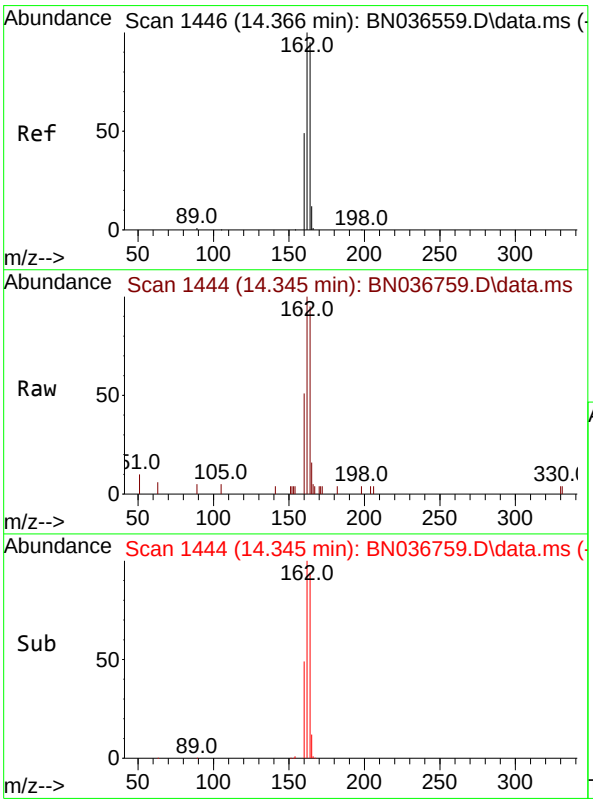
#11
2-Methylnaphthalene-d10
Concen: 0.304 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Tgt Ion:152 Resp: 1546

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

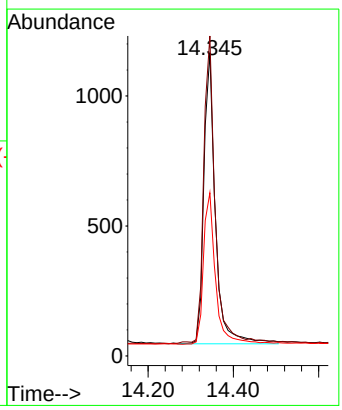


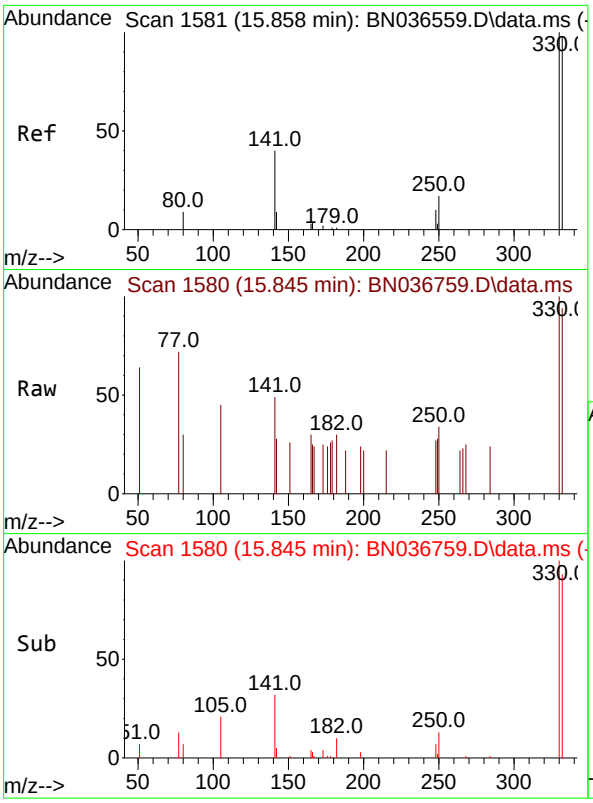


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Tgt Ion:164 Resp: 2100

Ion	Ratio	Lower	Upper
164	100		
162	105.6	84.2	126.2
160	53.9	42.2	63.2



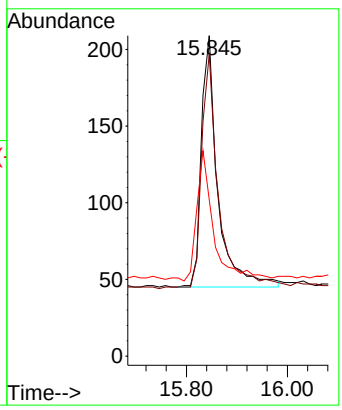


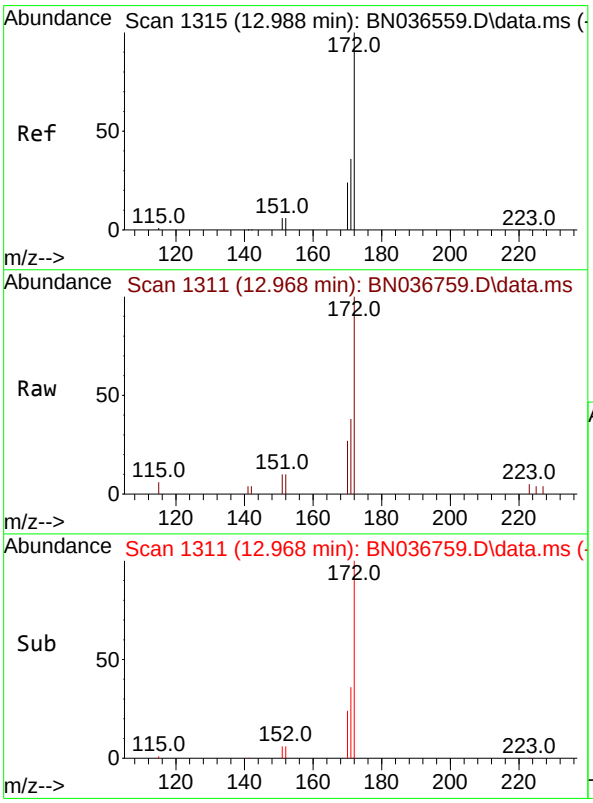
#14
2,4,6-Tribromophenol
Concen: 0.390 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Tgt Ion:330 Resp: 372

Ion	Ratio	Lower	Upper
330	100		
332	93.8	75.2	112.8
141	48.9	43.4	65.2

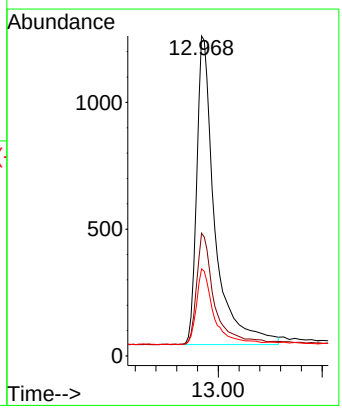


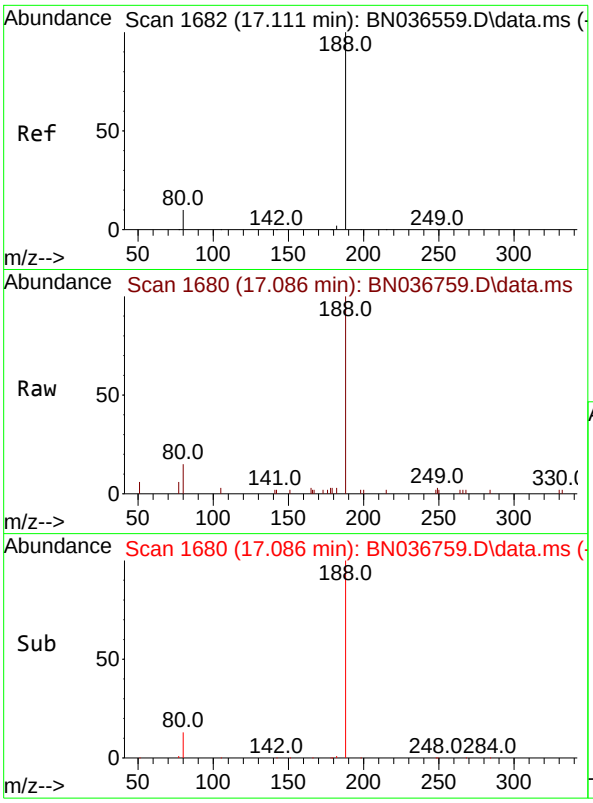


#15
2-Fluorobiphenyl
Concen: 0.310 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Tgt Ion:172 Resp: 3790

Ion	Ratio	Lower	Upper
172	100		
171	38.4	29.5	44.3
170	27.2	20.2	30.4



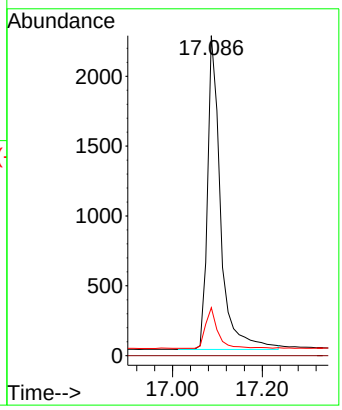


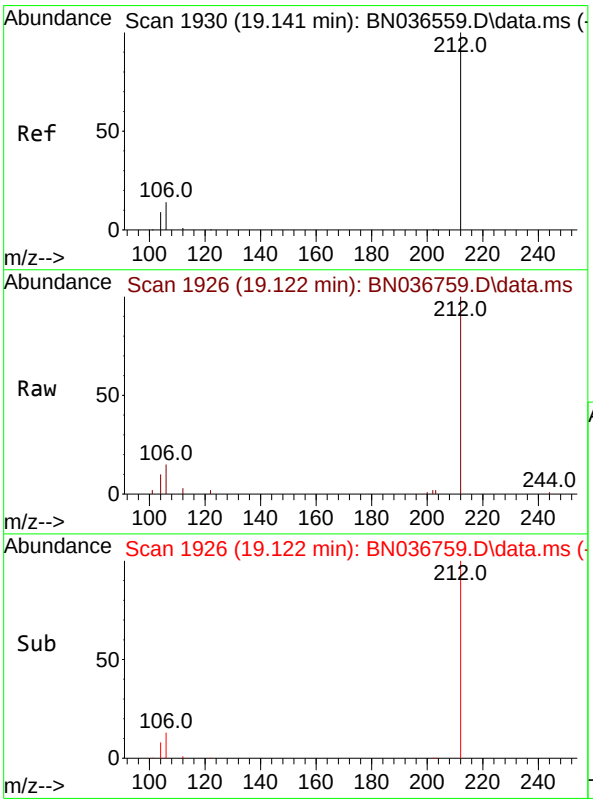
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Tgt Ion:188 Resp: 4518

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.0	8.8	13.2#

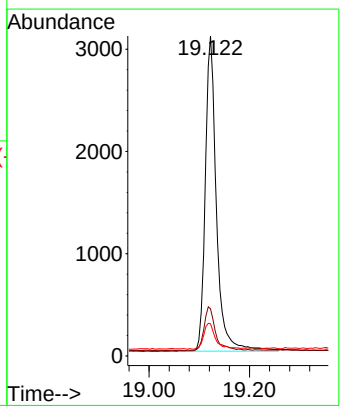


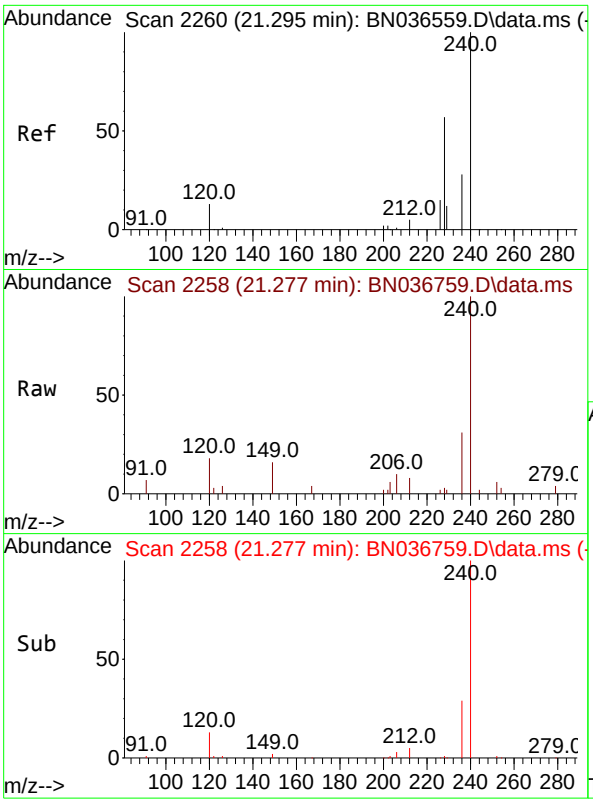


#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.019 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Tgt Ion:212 Resp: 4749

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.7	7.3	10.9



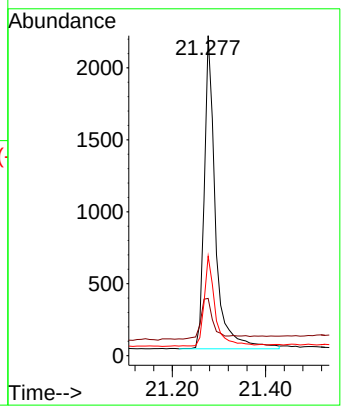


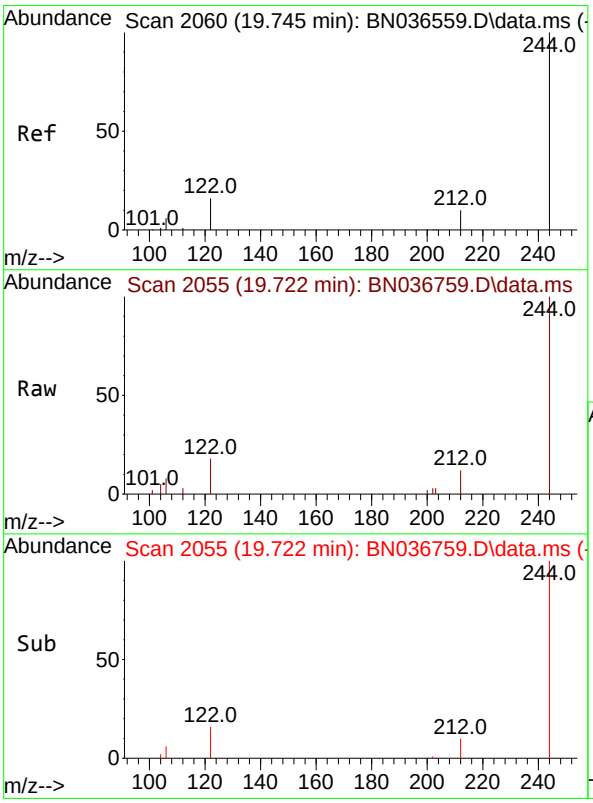
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Tgt Ion:240 Resp: 3643

Ion	Ratio	Lower	Upper
240	100		
120	17.9	14.6	22.0
236	31.1	24.1	36.1

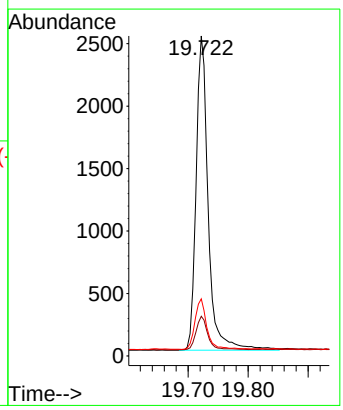


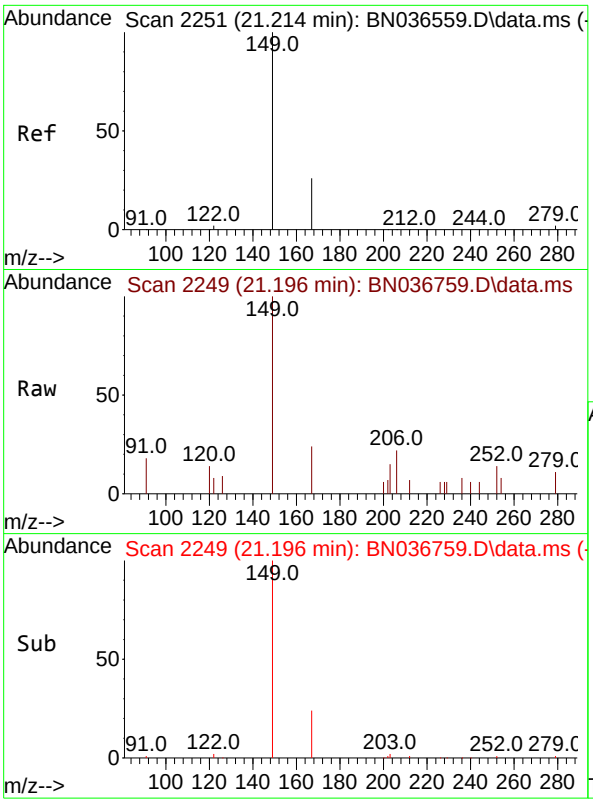


#31
Terphenyl-d14
Concen: 0.404 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Tgt Ion:244 Resp: 3529

Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.6	14.4
122	17.8	13.9	20.9



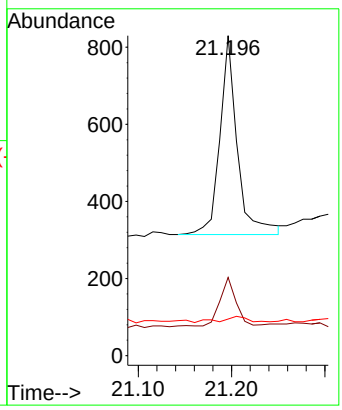


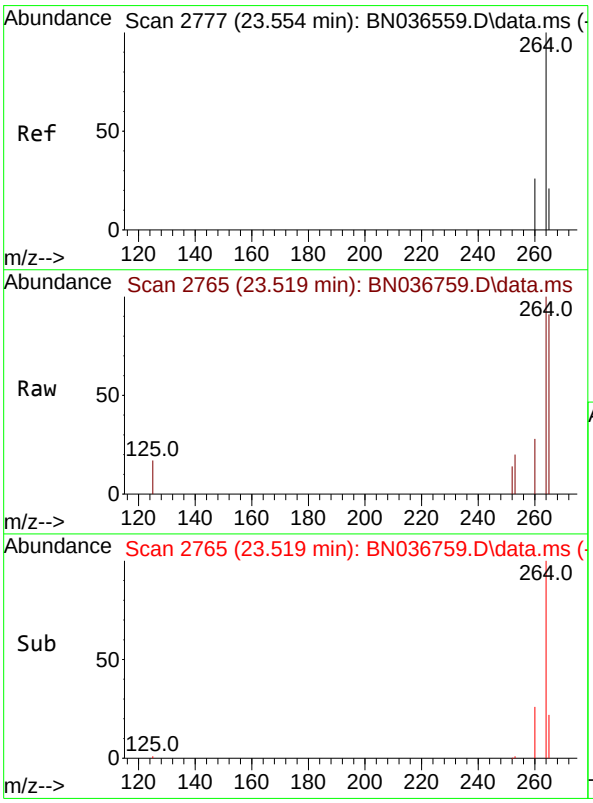
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.074 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Instrument :
BNA_N
ClientSampleId :
TT101D2-20250319

Tgt Ion:149 Resp: 667

Ion	Ratio	Lower	Upper
149	100		
167	22.3	20.7	31.1
279	4.8	3.6	5.4

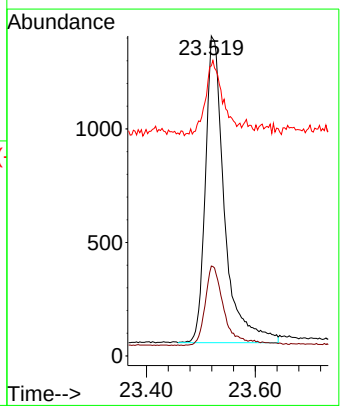




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036759.D
Acq: 28 Mar 2025 04:58

Tgt Ion:264 Resp: 3268

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.6	33.8
265	90.6	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	TT161S1-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-22	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036760.D	1	03/21/25 08:40	03/28/25 05:34	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.34		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		109%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1350	7.703				
1146-65-2	Naphthalene-d8	3230	10.487				
15067-26-2	Acenaphthene-d10	2070	14.345				
1517-22-2	Phenanthrene-d10	4500	17.086				
1719-03-5	Chrysene-d12	3750	21.277				
1520-96-3	Perylene-d12	3370	23.519				

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\BN032725\
Data File : BN036760.D
Acq On : 28 Mar 2025 05:34
Operator : RC/JU
Sample : Q1608-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Quant Time: Mar 28 06:13:56 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

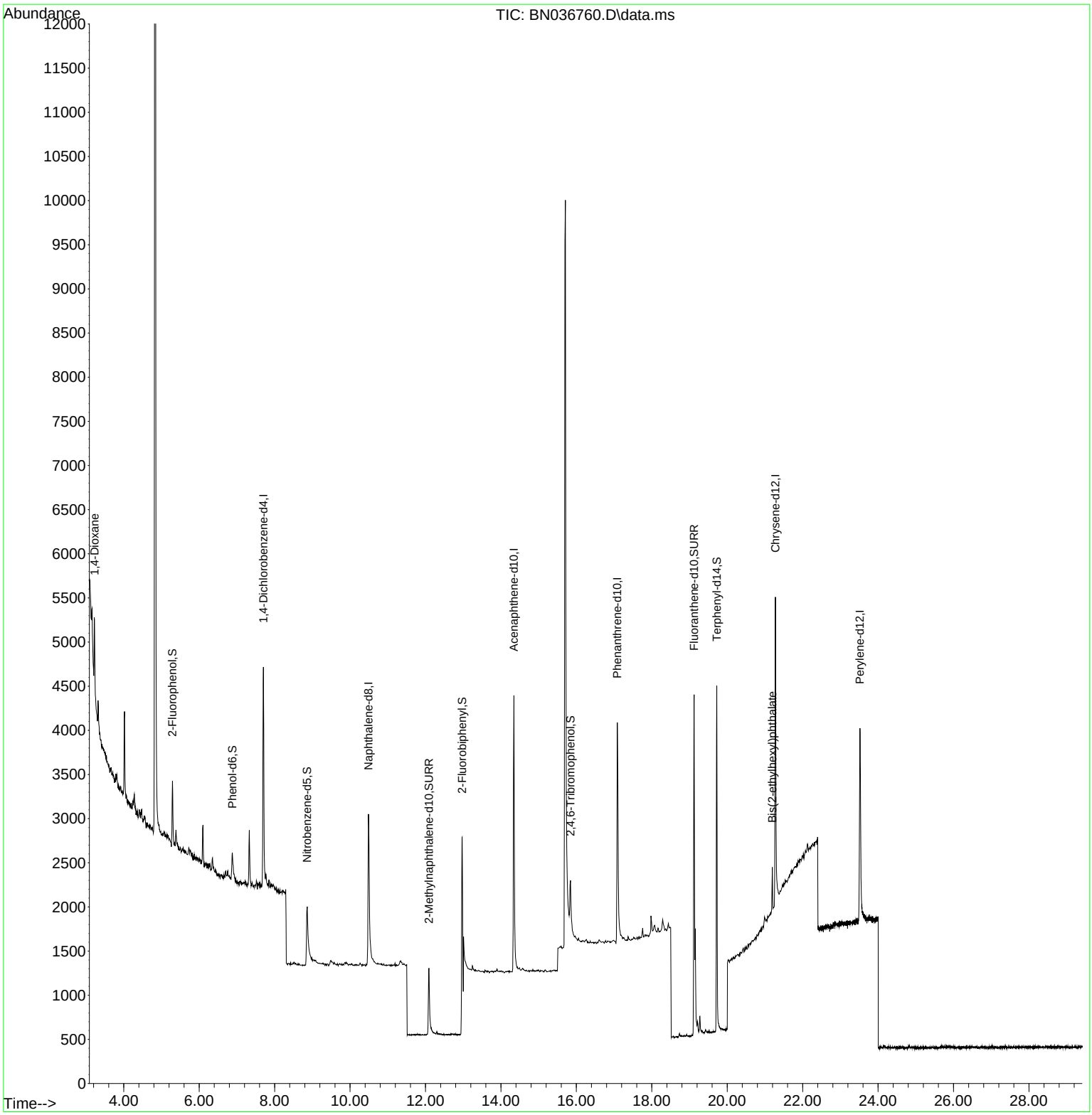
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1354	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3227	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2069	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4501	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3749	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3365	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	514	0.163	ng	-0.02
5) Phenol-d6	6.879	99	338	0.087	ng	-0.02
8) Nitrobenzene-d5	8.865	82	1038	0.296	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1606	0.335	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	439	0.468	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	4144	0.344	ng	-0.02
27) Fluoranthene-d10	19.122	212	4927	0.427	ng	-0.02
31) Terphenyl-d14	19.722	244	3921	0.437	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	494	0.329	ng	# 64
34) Bis(2-ethylhexyl)phtha...	21.196	149	453	0.049	ng	# 96

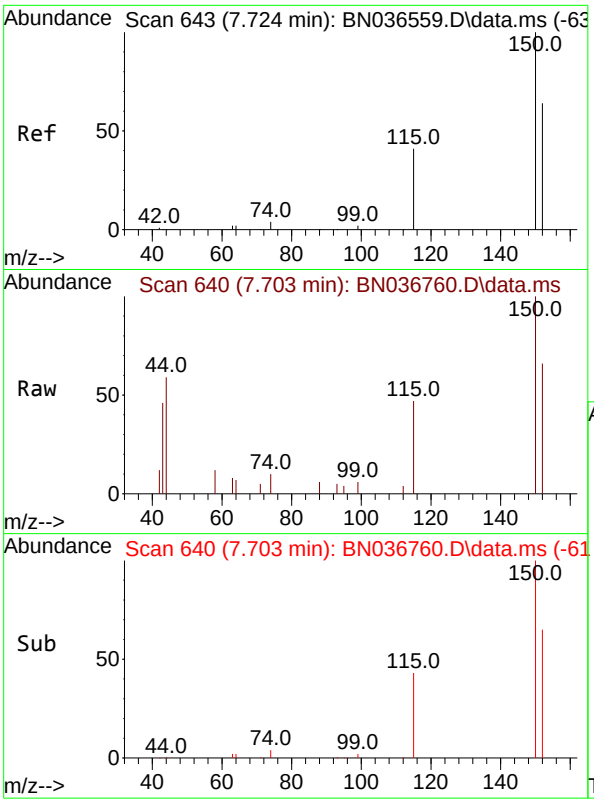
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036760.D
Acq On : 28 Mar 2025 05:34
Operator : RC/JU
Sample : Q1608-22
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Quant Time: Mar 28 06:13:56 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



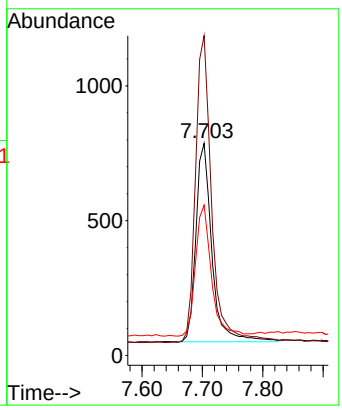


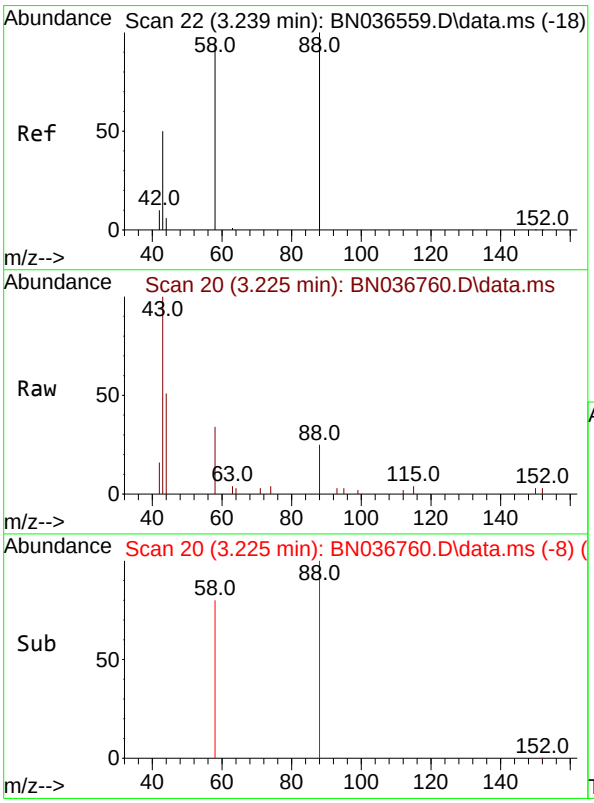
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Tgt Ion:152 Resp: 1354

Ion	Ratio	Lower	Upper
152	100		
150	150.7	123.7	185.5
115	70.9	54.3	81.5

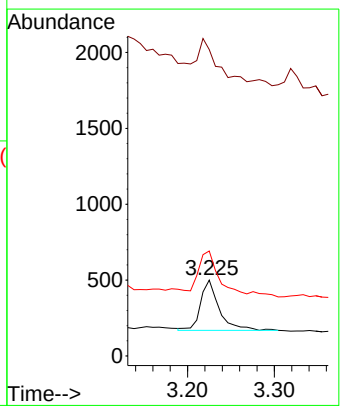


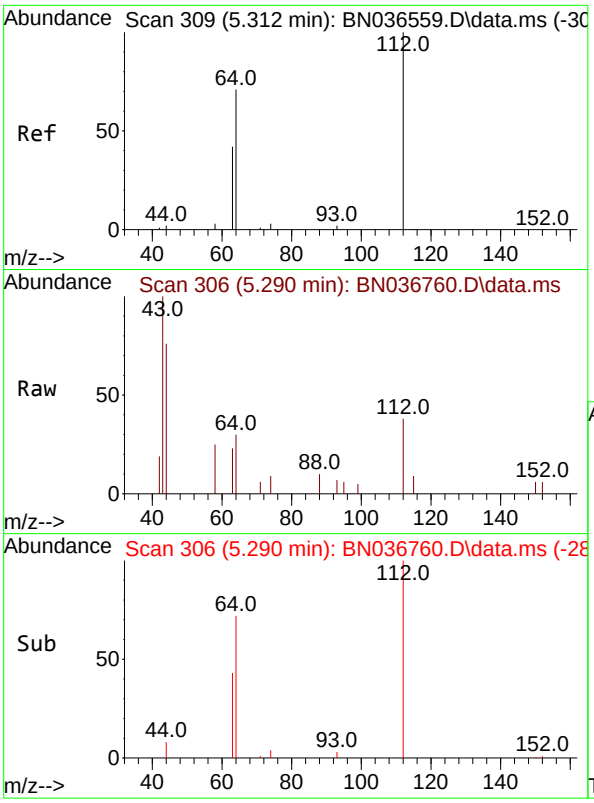


#2
1,4-Dioxane
Concen: 0.329 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Tgt Ion: 88 Resp: 494

Ion	Ratio	Lower	Upper
88	100		
43	111.3	37.8	56.8#
58	86.6	67.4	101.2



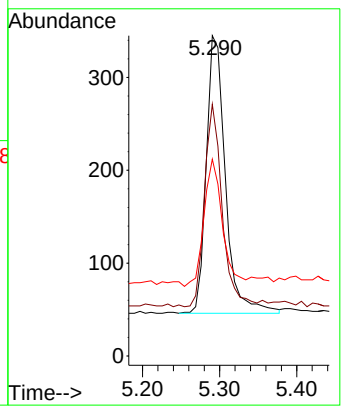


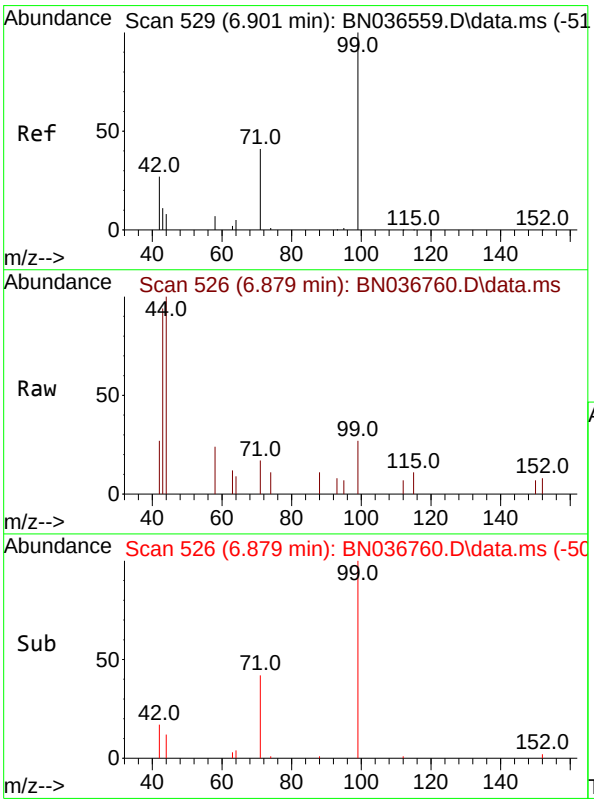
#4
2-Fluorophenol
Concen: 0.163 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Tgt Ion:112 Resp: 514

Ion	Ratio	Lower	Upper
112	100		
64	67.3	53.1	79.7
63	44.2	31.8	47.8

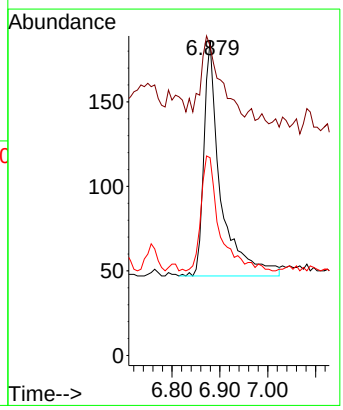


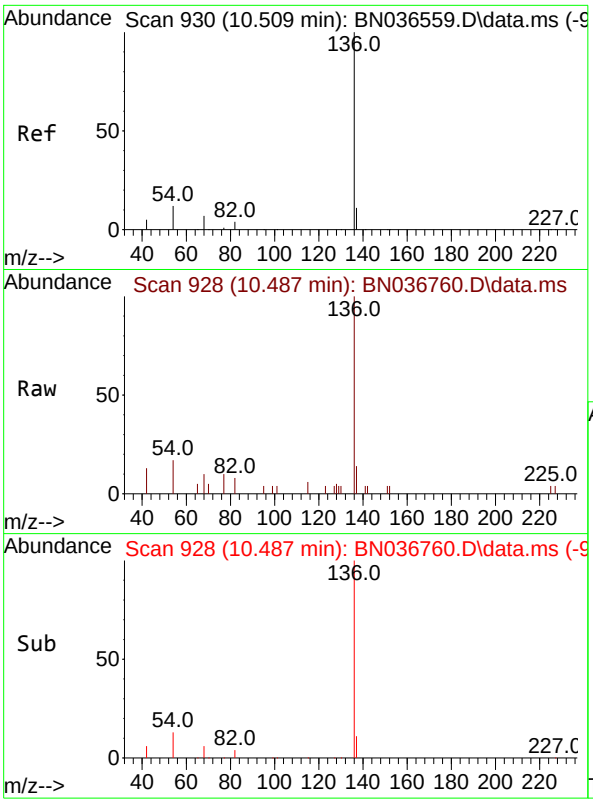


#5
Phenol-d6
Concen: 0.087 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Tgt Ion: 99 Resp: 338

Ion	Ratio	Lower	Upper
99	100		
42	37.3	26.5	39.7
71	53.8	34.1	51.1#



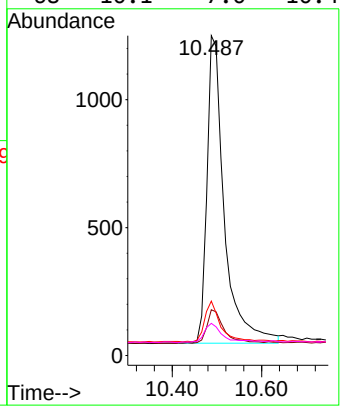


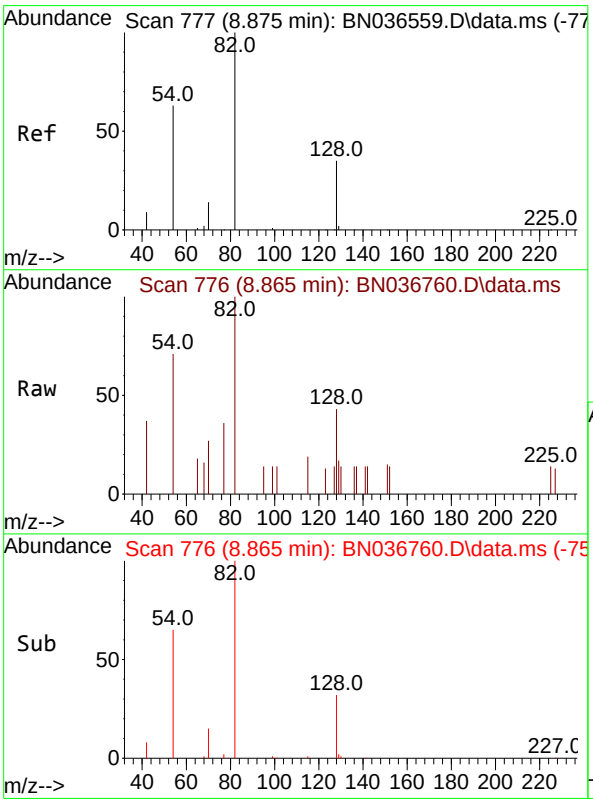
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Tgt Ion:136 Resp: 3227

Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.3	15.5
54	17.0	11.5	17.3
68	10.1	7.0	10.4

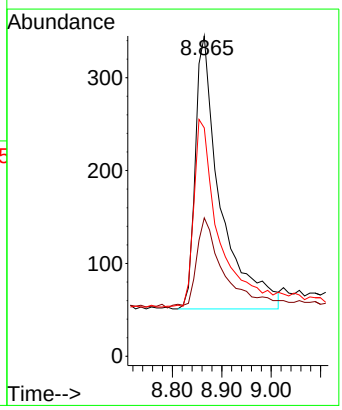


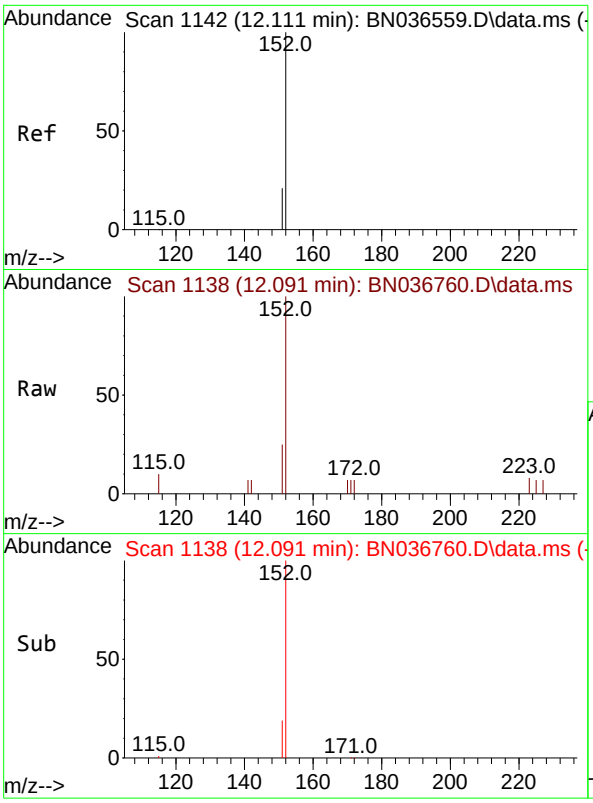


#8
Nitrobenzene-d5
Concen: 0.296 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Tgt Ion: 82 Resp: 1038

Ion	Ratio	Lower	Upper
82	100		
128	43.2	30.6	45.8
54	71.3	52.2	78.4



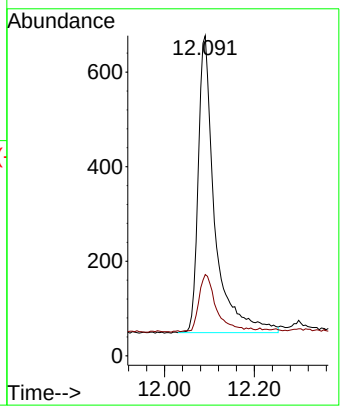


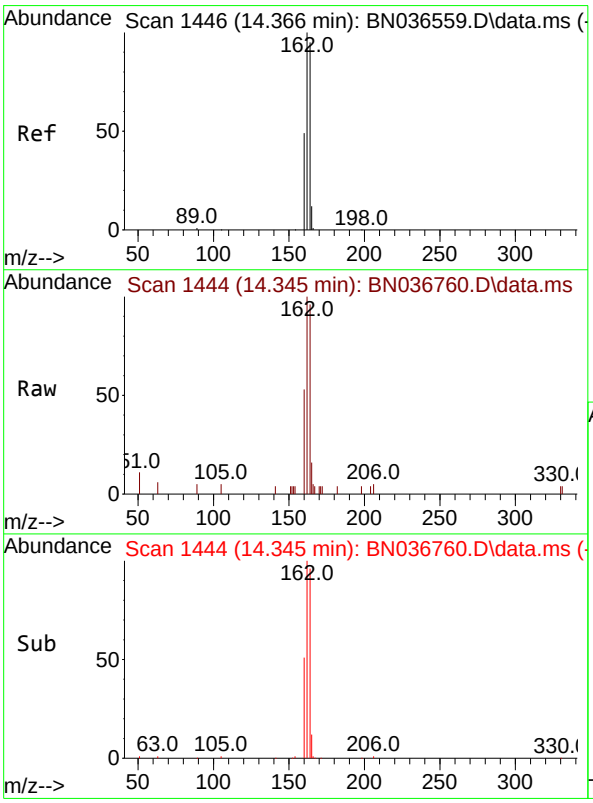
#11
2-Methylnaphthalene-d10
Concen: 0.335 ng
RT: 12.091 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Tgt Ion:152 Resp: 1606

Ion	Ratio	Lower	Upper
152	100		
151	20.0	17.0	25.6

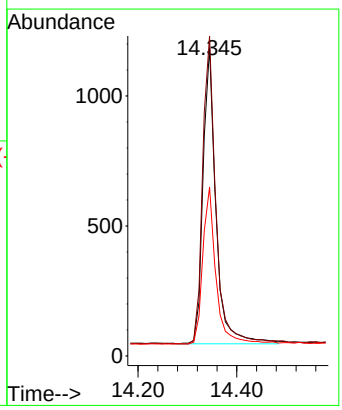


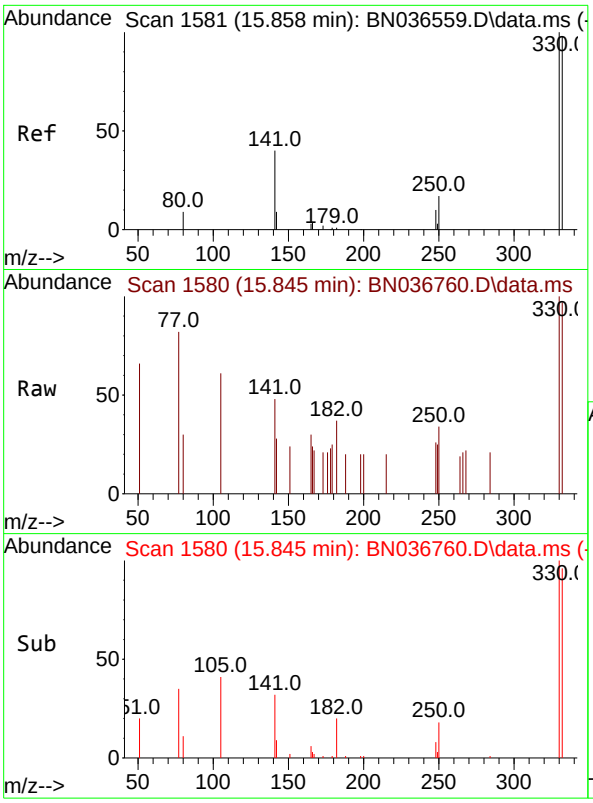


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Tgt Ion:164 Resp: 2069

Ion	Ratio	Lower	Upper
164	100		
162	103.8	84.2	126.2
160	54.8	42.2	63.2



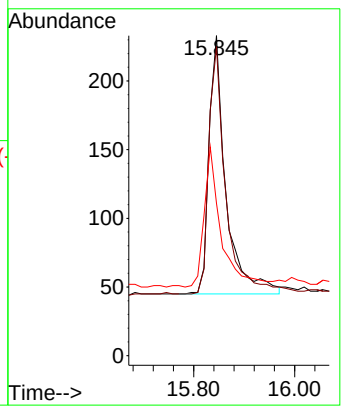


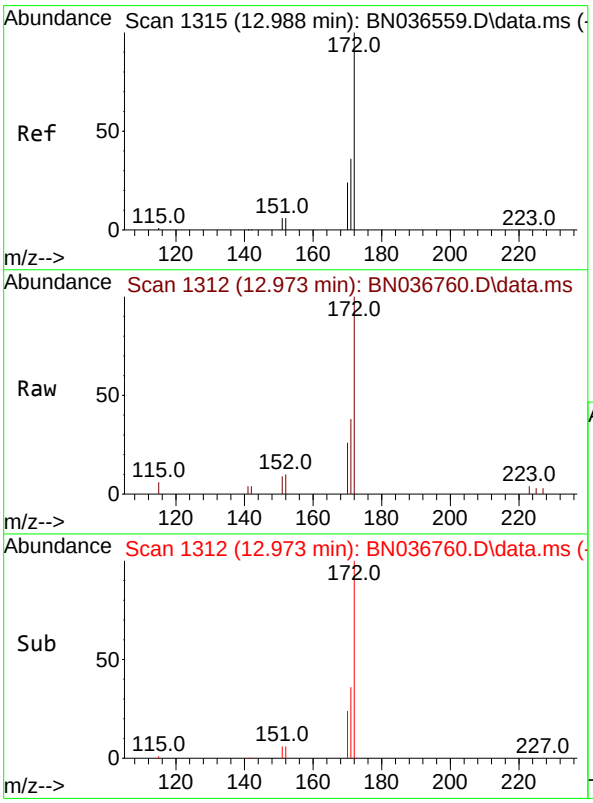
#14
2,4,6-Tribromophenol
Concen: 0.468 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Tgt Ion:330 Resp: 439

Ion	Ratio	Lower	Upper
330	100		
332	96.1	75.2	112.8
141	54.7	43.4	65.2

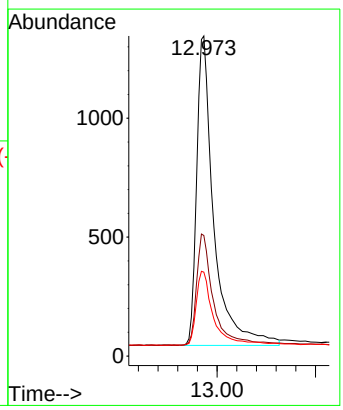


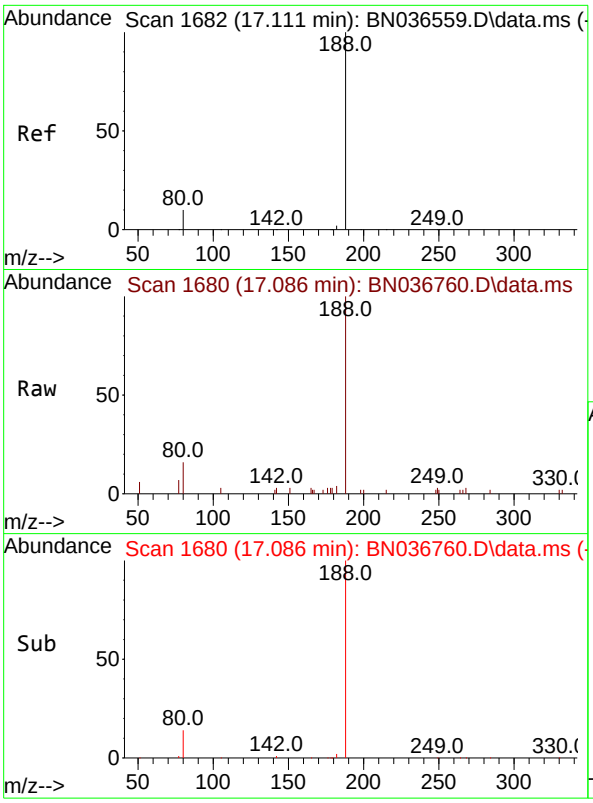


#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.973 min Scan# 1312
Delta R.T. -0.015 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Tgt Ion:172 Resp: 4144

Ion	Ratio	Lower	Upper
172	100		
171	37.7	29.5	44.3
170	26.2	20.2	30.4



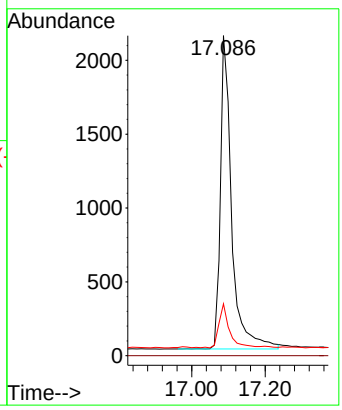


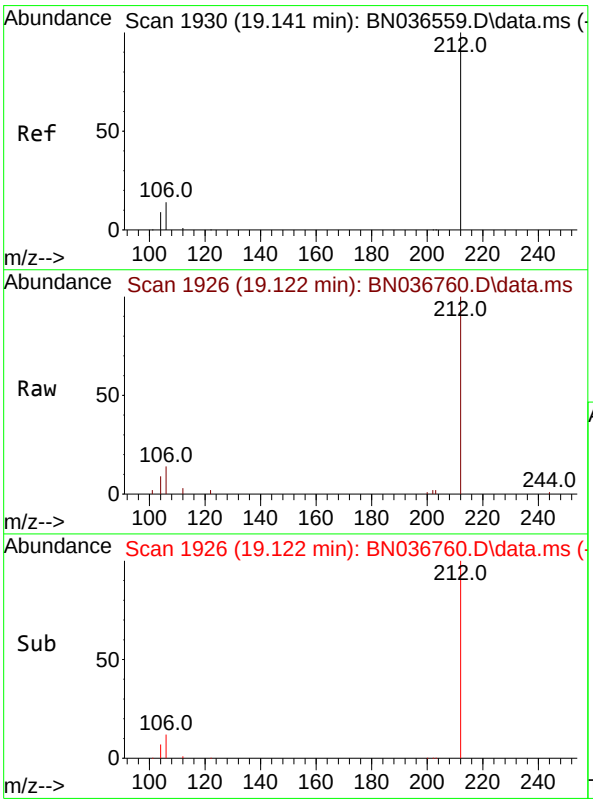
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Tgt Ion:188 Resp: 4501

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.2	8.8	13.2#

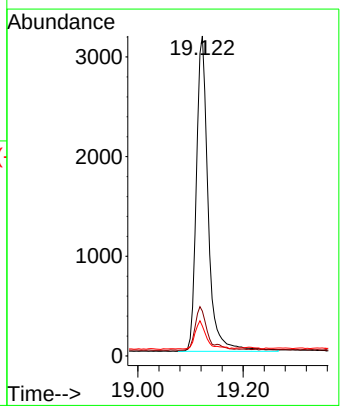


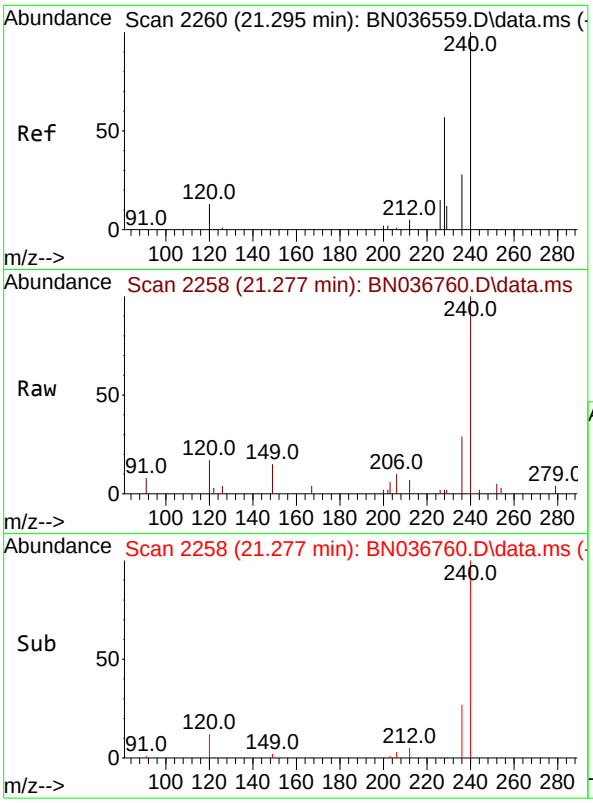


#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Tgt Ion:212 Resp: 4927

Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.8	17.6
104	8.6	7.3	10.9



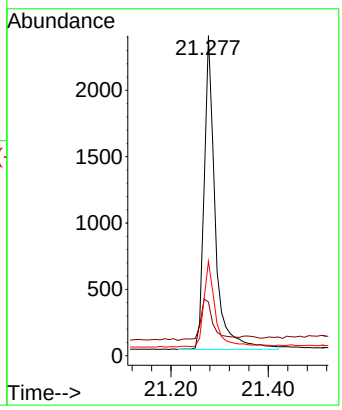


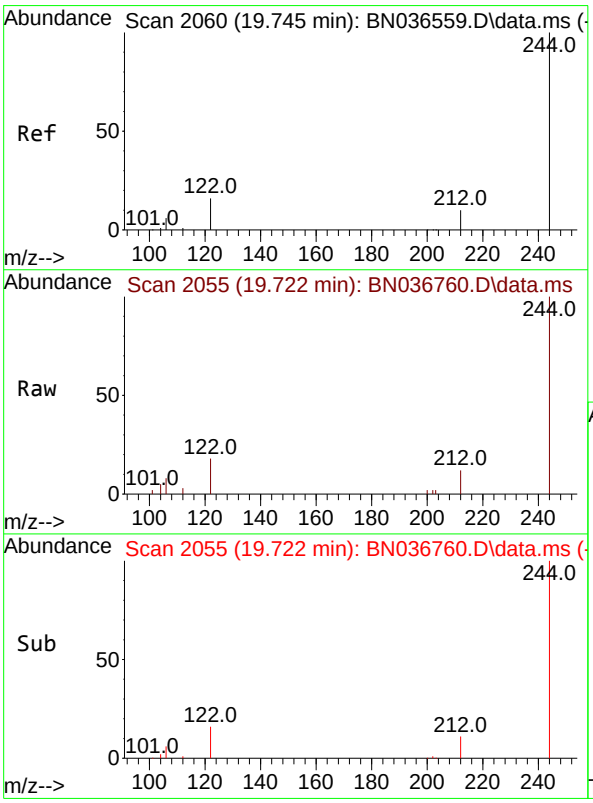
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Tgt Ion:240 Resp: 3749

Ion	Ratio	Lower	Upper
240	100		
120	16.7	14.6	22.0
236	29.5	24.1	36.1

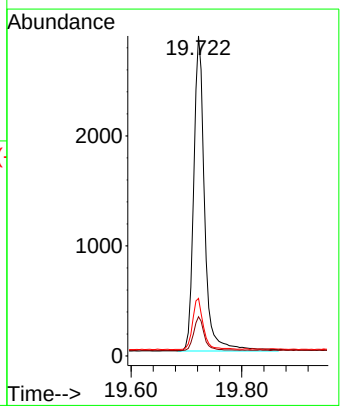


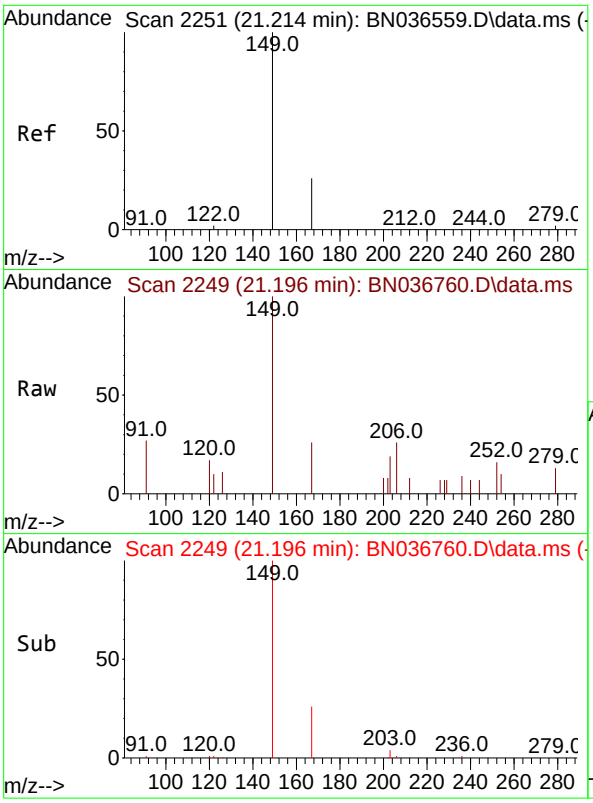


#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Tgt Ion:244 Resp: 3921

Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.6	14.4
122	18.0	13.9	20.9



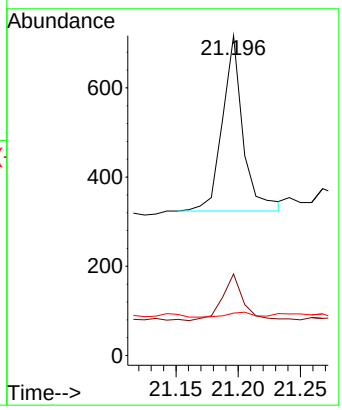


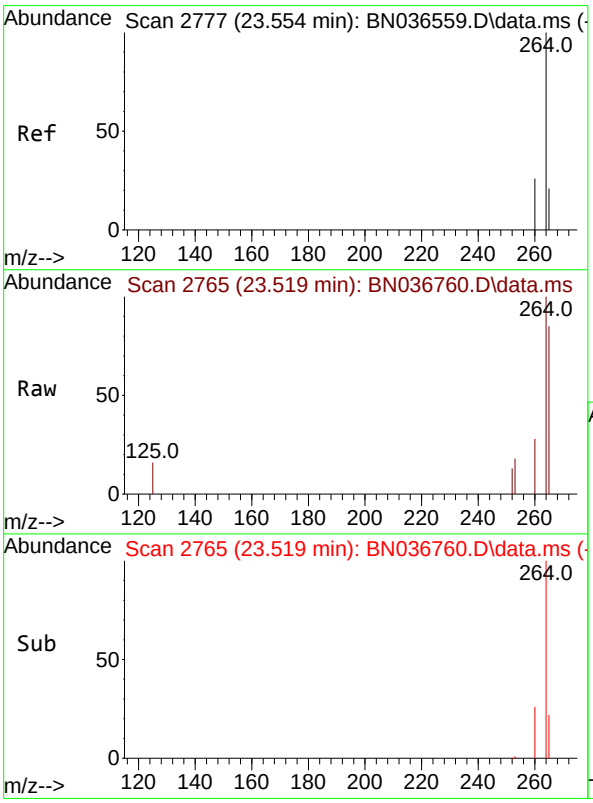
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.049 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Instrument :
BNA_N
ClientSampleId :
TT161S1-20250319

Tgt Ion:149 Resp: 453

Ion	Ratio	Lower	Upper
149	100		
167	28.0	20.7	31.1
279	3.5	3.6	5.4#

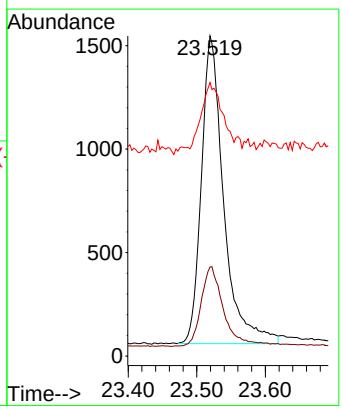




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036760.D
Acq: 28 Mar 2025 05:34

Tgt Ion:264 Resp: 3365

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	85.5	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	TT189D2-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-23	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036761.D	1	03/21/25 08:40	03/28/25 06:10	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.10	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1270	7.703				
1146-65-2	Naphthalene-d8	2960	10.488				
15067-26-2	Acenaphthene-d10	1900	14.345				
1517-22-2	Phenanthrene-d10	4080	17.087				
1719-03-5	Chrysene-d12	3930	21.277				
1520-96-3	Perylene-d12	3630	23.522				

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\BN032725\
Data File : BN036761.D
Acq On : 28 Mar 2025 06:10
Operator : RC/JU
Sample : Q1608-23
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Quant Time: Mar 28 06:38:14 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

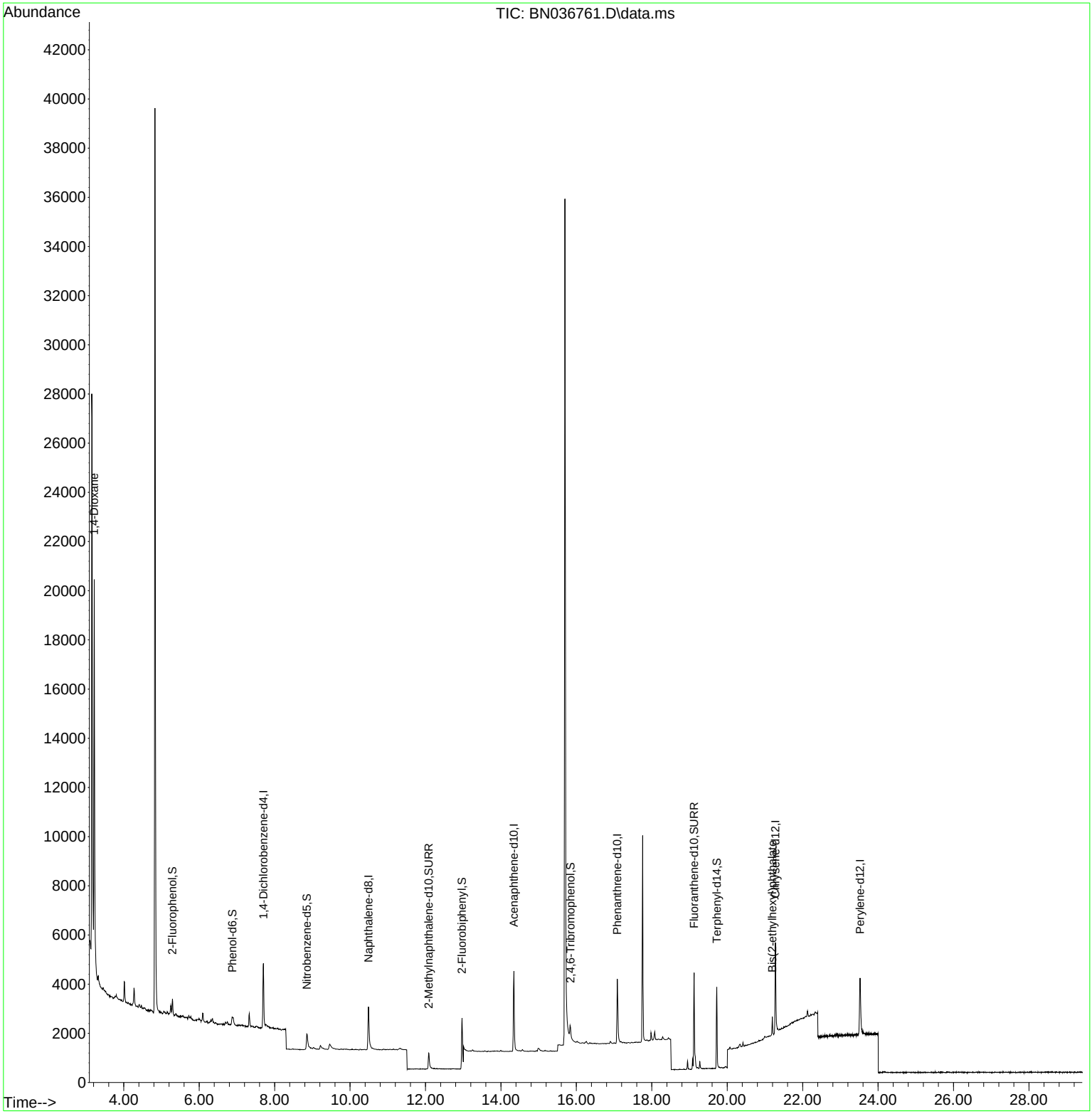
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1268	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	2959	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	1903	0.400	ng	-0.02
19) Phenanthrene-d10	17.087	188	4076	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3929	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3627	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	493	0.167	ng	-0.02
5) Phenol-d6	6.879	99	331	0.091	ng	-0.02
8) Nitrobenzene-d5	8.854	82	903	0.281	ng	-0.02
11) 2-Methylnaphthalene-d10	12.086	152	1293	0.294	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	357	0.413	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	3402	0.307	ng	-0.02
27) Fluoranthene-d10	19.123	212	4643	0.444	ng	-0.02
31) Terphenyl-d14	19.722	244	3383	0.359	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	8208	5.835	ng	94
34) Bis(2-ethylhexyl)phtha...	21.196	149	690	0.071	ng	92

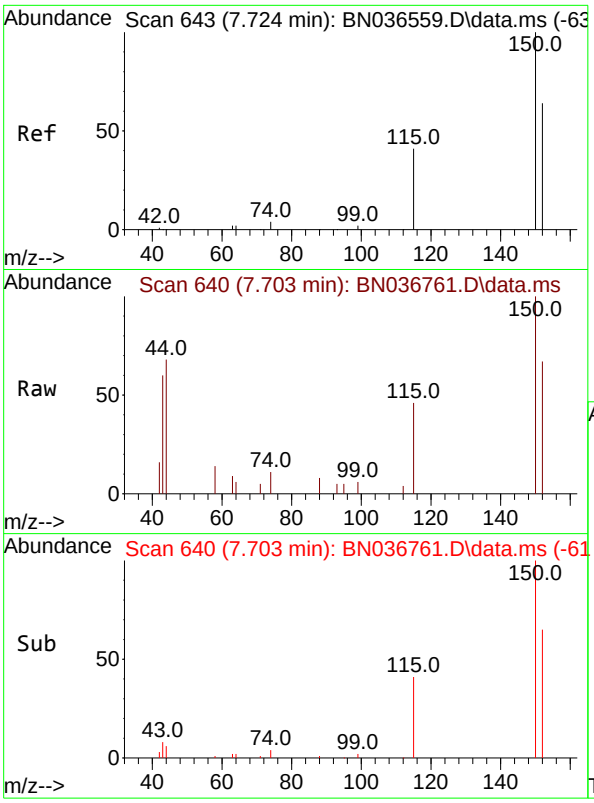
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036761.D
Acq On : 28 Mar 2025 06:10
Operator : RC/JU
Sample : Q1608-23
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Quant Time: Mar 28 06:38:14 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



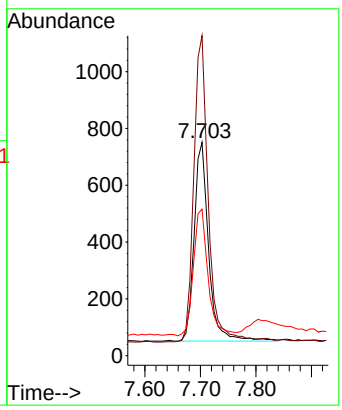


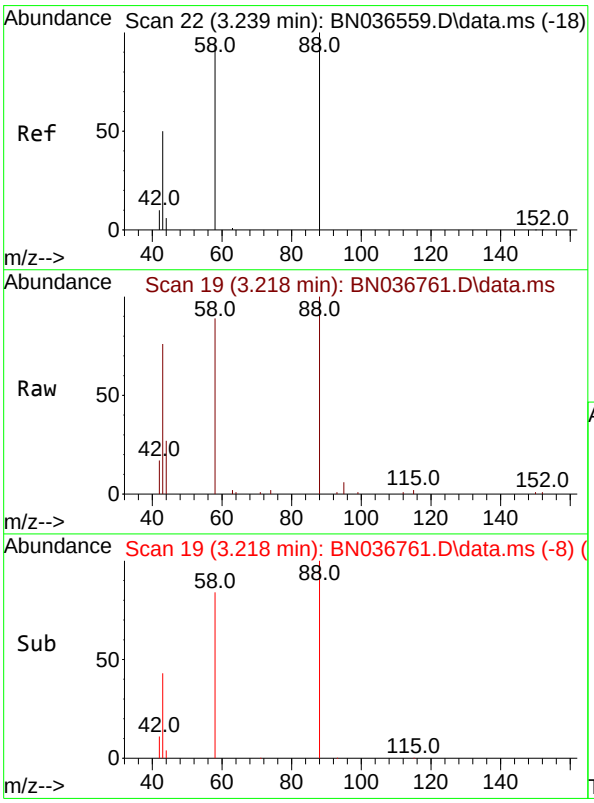
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Tgt Ion:152 Resp: 1268

Ion	Ratio	Lower	Upper
152	100		
150	150.1	123.7	185.5
115	68.7	54.3	81.5

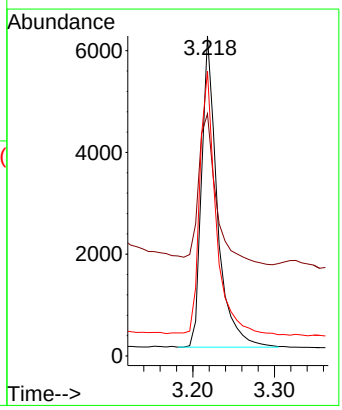


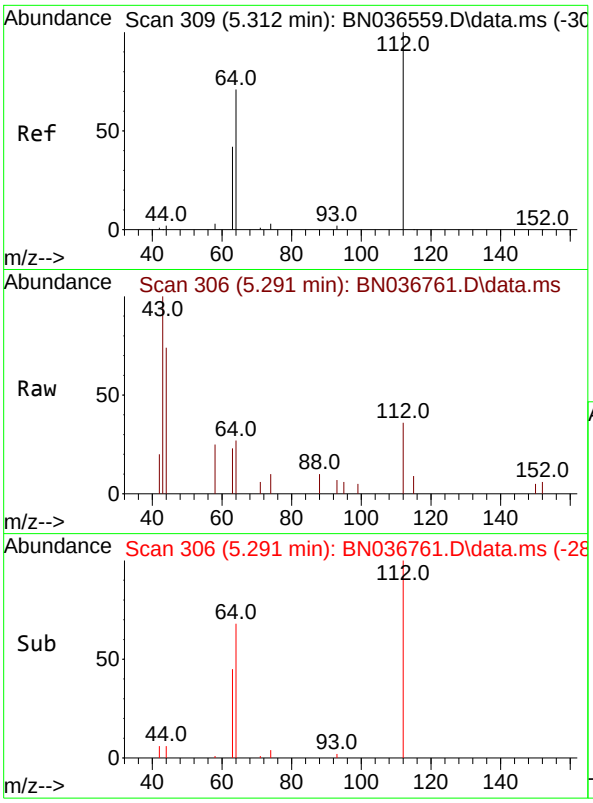


#2
1,4-Dioxane
Concen: 5.835 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Tgt Ion: 88 Resp: 8208

Ion	Ratio	Lower	Upper
88	100		
43	54.9	37.8	56.8
58	87.5	67.4	101.2



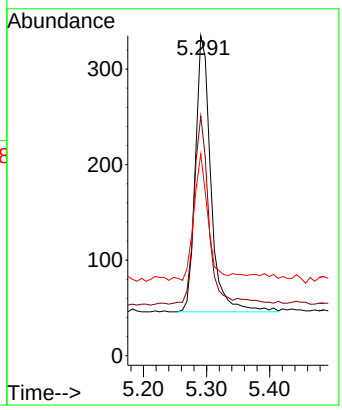


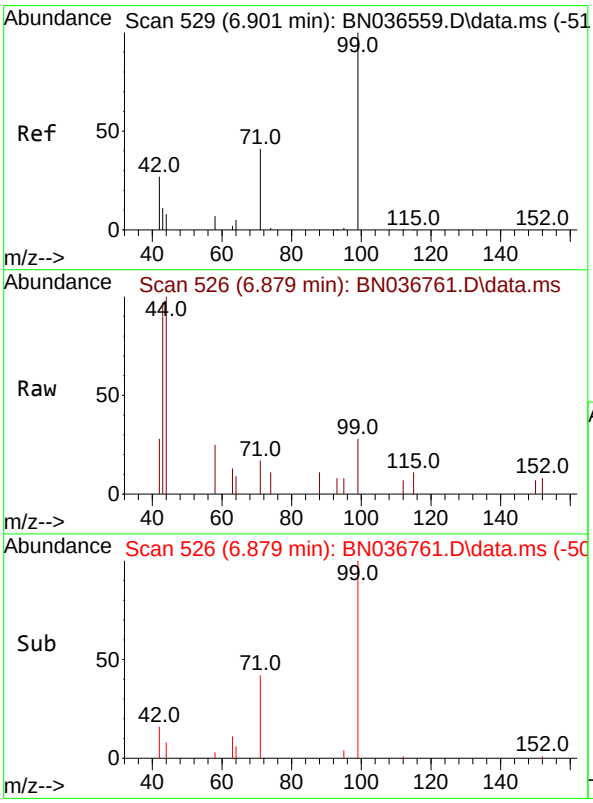
#4
2-Fluorophenol
Concen: 0.167 ng
RT: 5.291 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Tgt Ion:112 Resp: 493

Ion	Ratio	Lower	Upper
112	100		
64	62.7	53.1	79.7
63	38.7	31.8	47.8

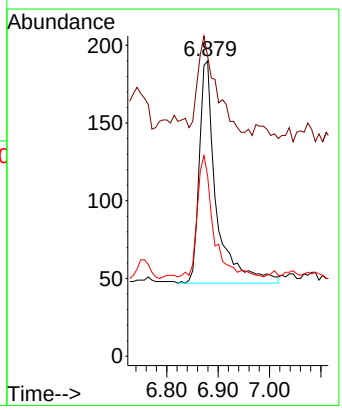


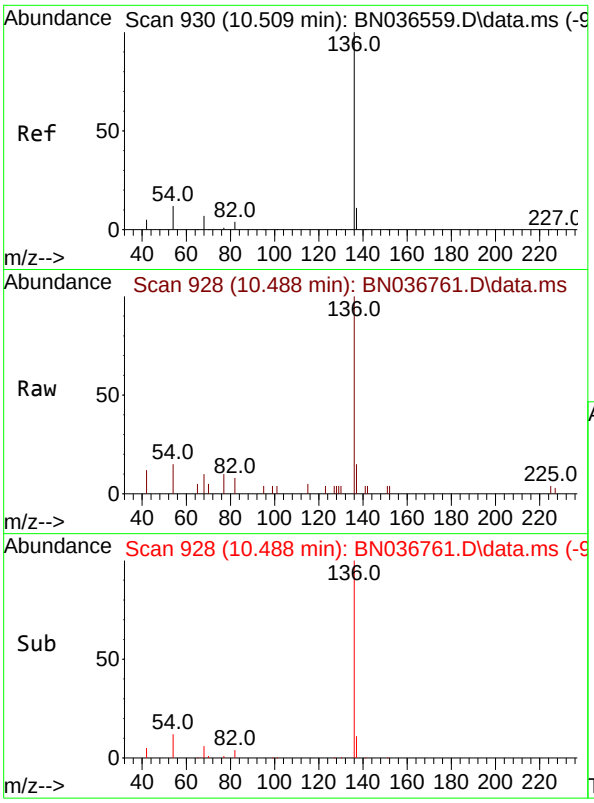


#5
Phenol-d6
Concen: 0.091 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.021 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Tgt Ion: 99 Resp: 331

Ion	Ratio	Lower	Upper
99	100		
42	47.7	26.5	39.7#
71	51.1	34.1	51.1



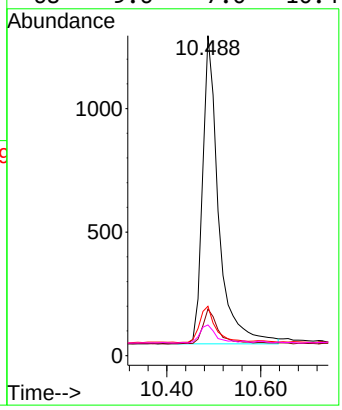


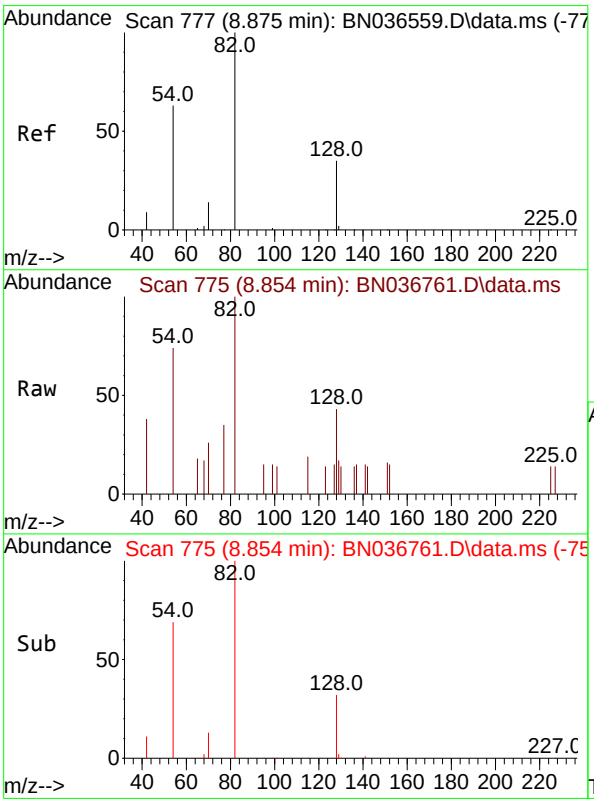
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Tgt Ion:136 Resp: 2959

Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.3	15.5
54	15.4	11.5	17.3
68	9.6	7.0	10.4

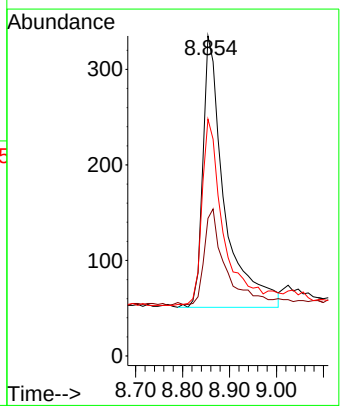


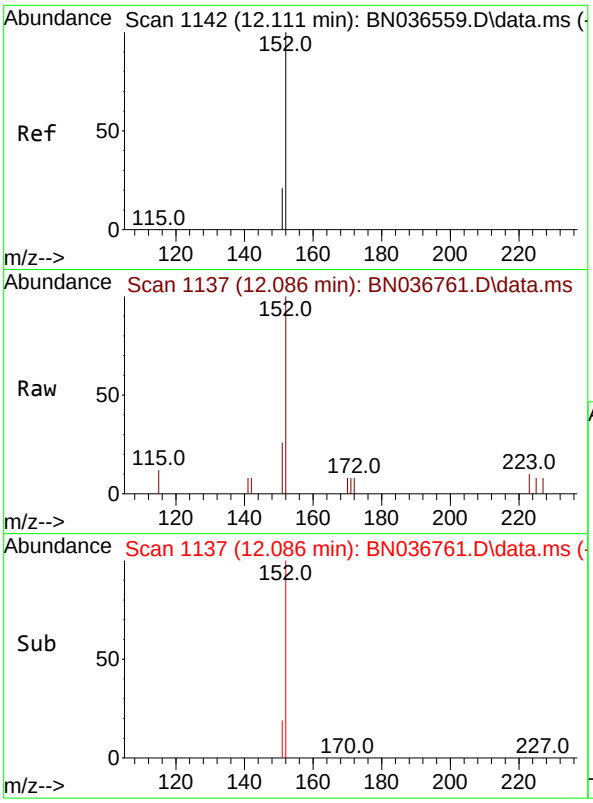


#8
Nitrobenzene-d5
Concen: 0.281 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Tgt Ion: 82 Resp: 903

Ion	Ratio	Lower	Upper
82	100		
128	43.0	30.6	45.8
54	74.0	52.2	78.4



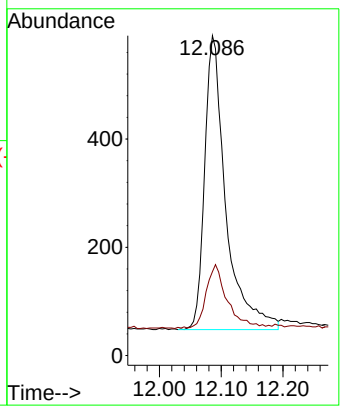


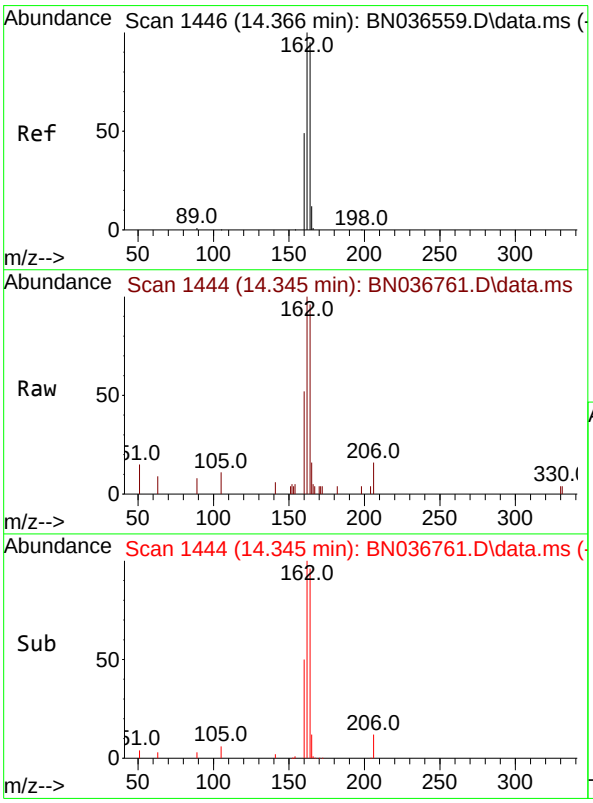
#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 12.086 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Tgt Ion:152 Resp: 1293

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

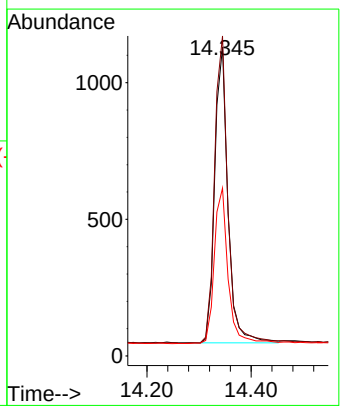


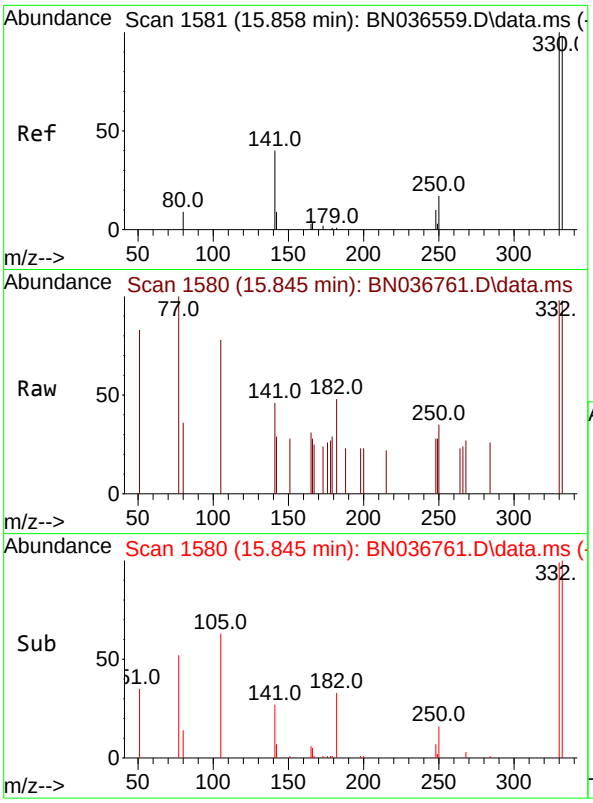


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Tgt Ion:164 Resp: 1903

Ion	Ratio	Lower	Upper
164	100		
162	103.6	84.2	126.2
160	54.3	42.2	63.2



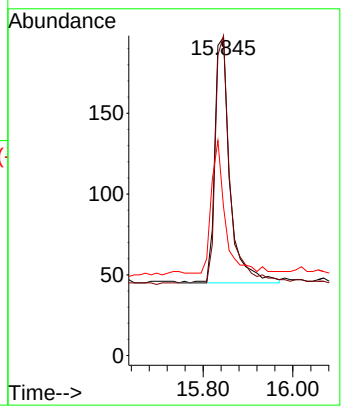


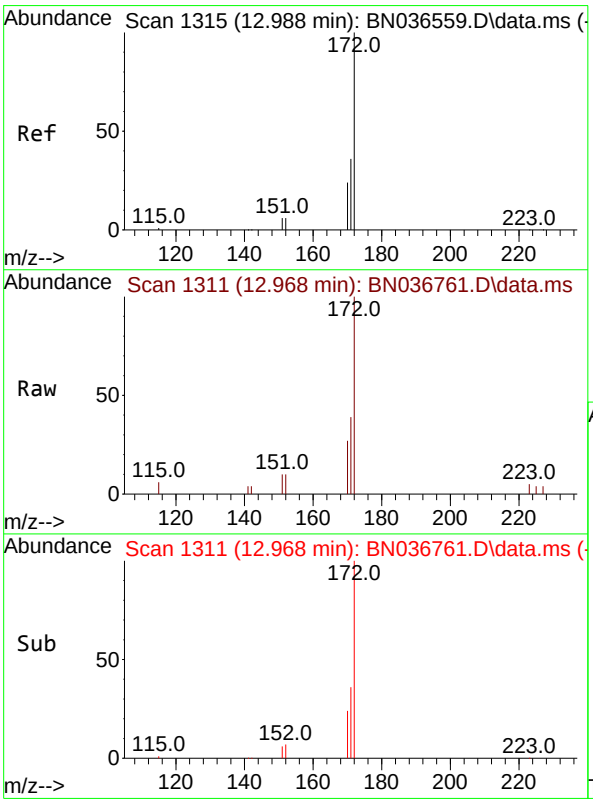
#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Tgt Ion:330 Resp: 357

Ion	Ratio	Lower	Upper
330	100		
332	96.1	75.2	112.8
141	49.0	43.4	65.2

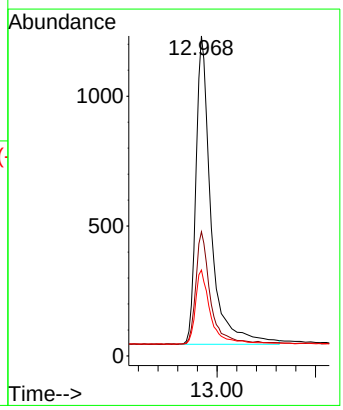


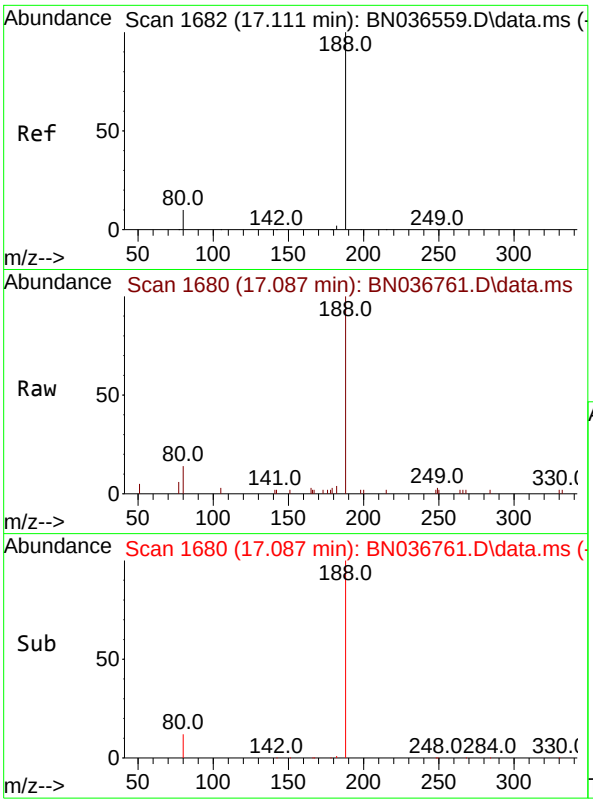


#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Tgt Ion:172 Resp: 3402

Ion	Ratio	Lower	Upper
172	100		
171	38.8	29.5	44.3
170	26.9	20.2	30.4



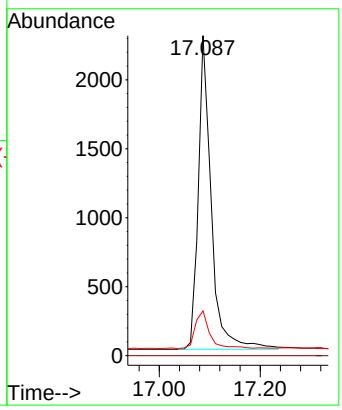


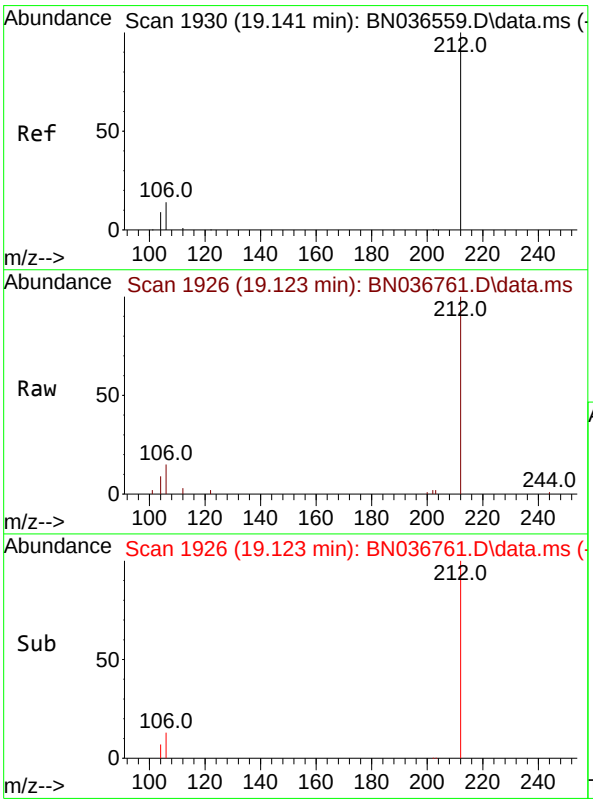
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Tgt Ion:188 Resp: 4076

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.0	8.8	13.2#

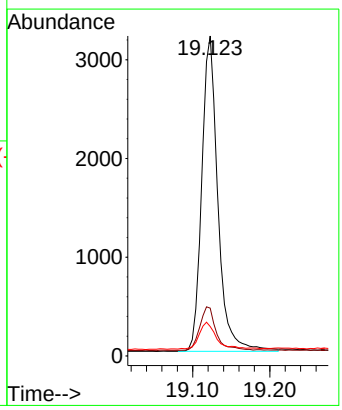


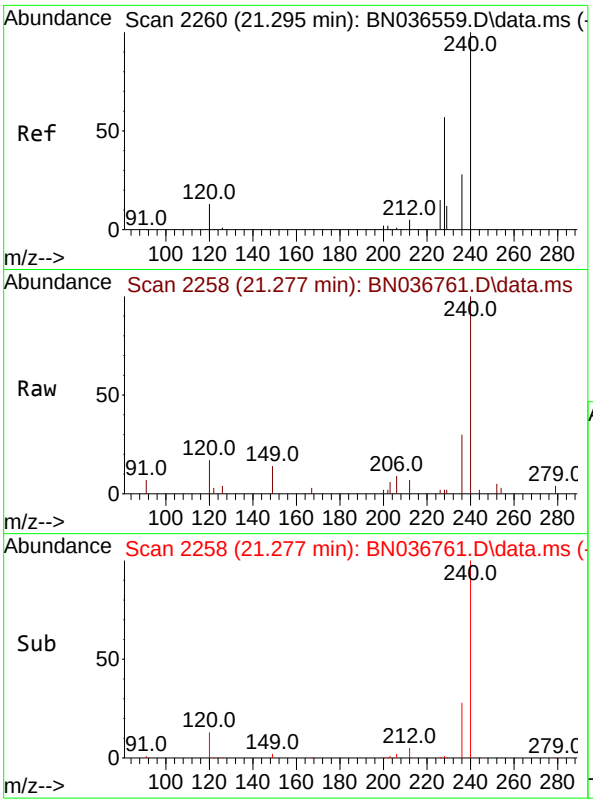


#27
Fluoranthene-d10
Concen: 0.444 ng
RT: 19.123 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Tgt Ion:212 Resp: 4643

Ion	Ratio	Lower	Upper
212	100		
106	13.9	11.8	17.6
104	9.3	7.3	10.9



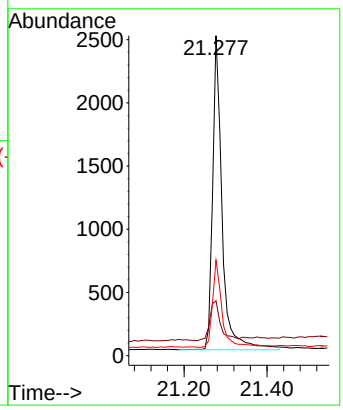


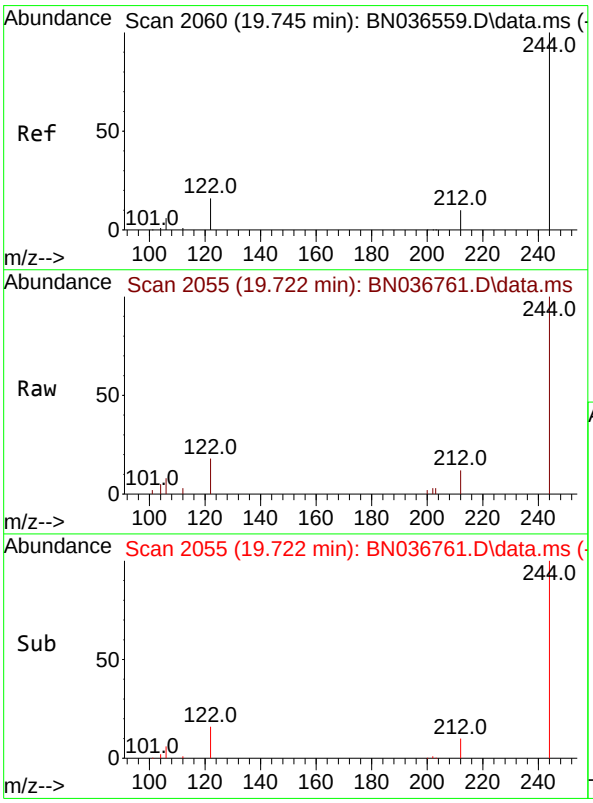
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Tgt Ion:240 Resp: 3929

Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.6	22.0
236	29.8	24.1	36.1

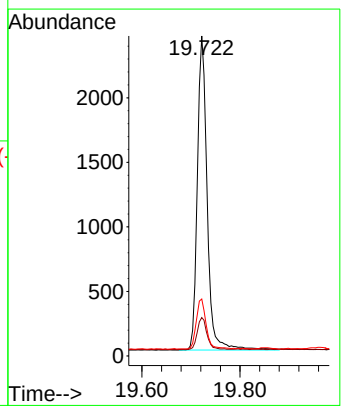


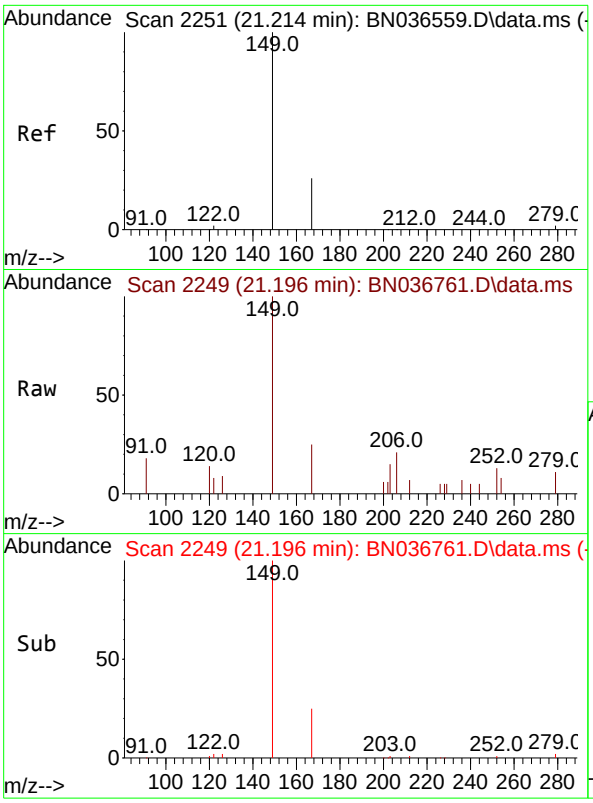


#31
Terphenyl-d14
Concen: 0.359 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Tgt Ion:244 Resp: 3383

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.8	13.9	20.9



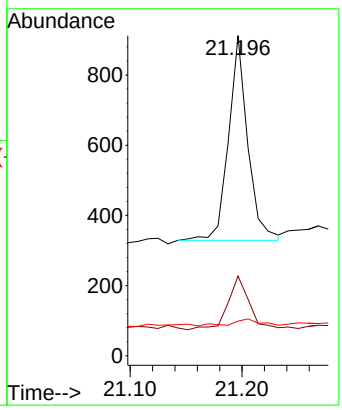


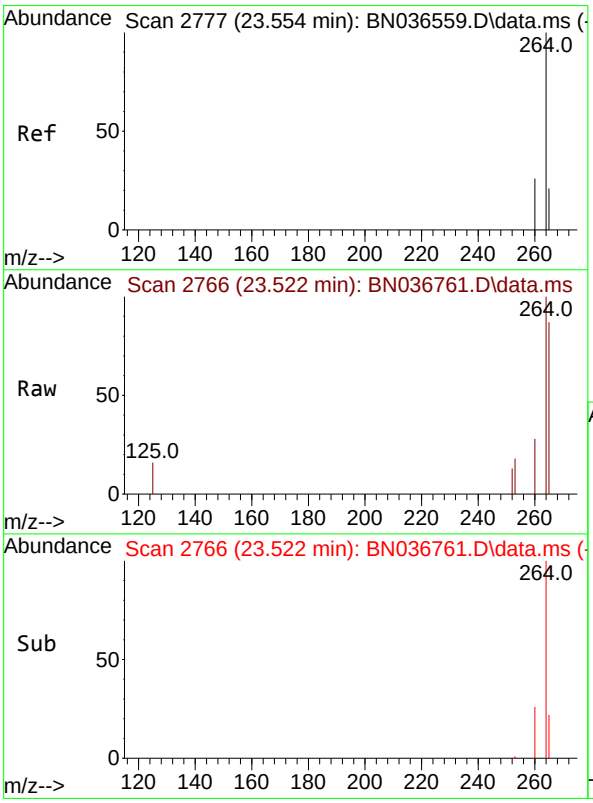
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.071 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319

Tgt Ion:149 Resp: 690

Ion	Ratio	Lower	Upper
149	100		
167	30.4	20.7	31.1
279	5.1	3.6	5.4

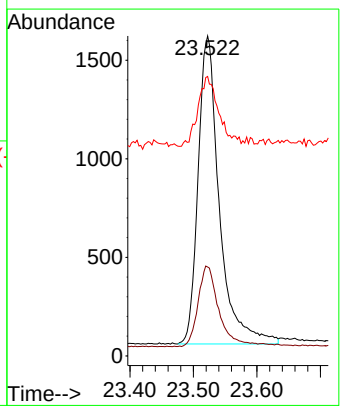




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2766
Delta R.T. -0.032 min
Lab File: BN036761.D
Acq: 28 Mar 2025 06:10

Tgt Ion:264 Resp: 3627

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	87.4	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	TT189D2-20250319DL	SDG No.:	Q1608
Lab Sample ID:	Q1608-23DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036780.D	2	03/21/25 08:40	03/28/25 19:26	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.90	D	0.14	0.42	0.42	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		92%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1210	7.695				
1146-65-2	Naphthalene-d8	2840	10.487				
15067-26-2	Acenaphthene-d10	1910	14.345				
1517-22-2	Phenanthrene-d10	4330	17.086				
1719-03-5	Chrysene-d12	3880	21.277				
1520-96-3	Perylene-d12	3350	23.519				

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\BN032825\
Data File : BN036780.D
Acq On : 28 Mar 2025 19:26
Operator : RC/JU
Sample : Q1608-23DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Quant Time: Mar 28 22:52:31 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

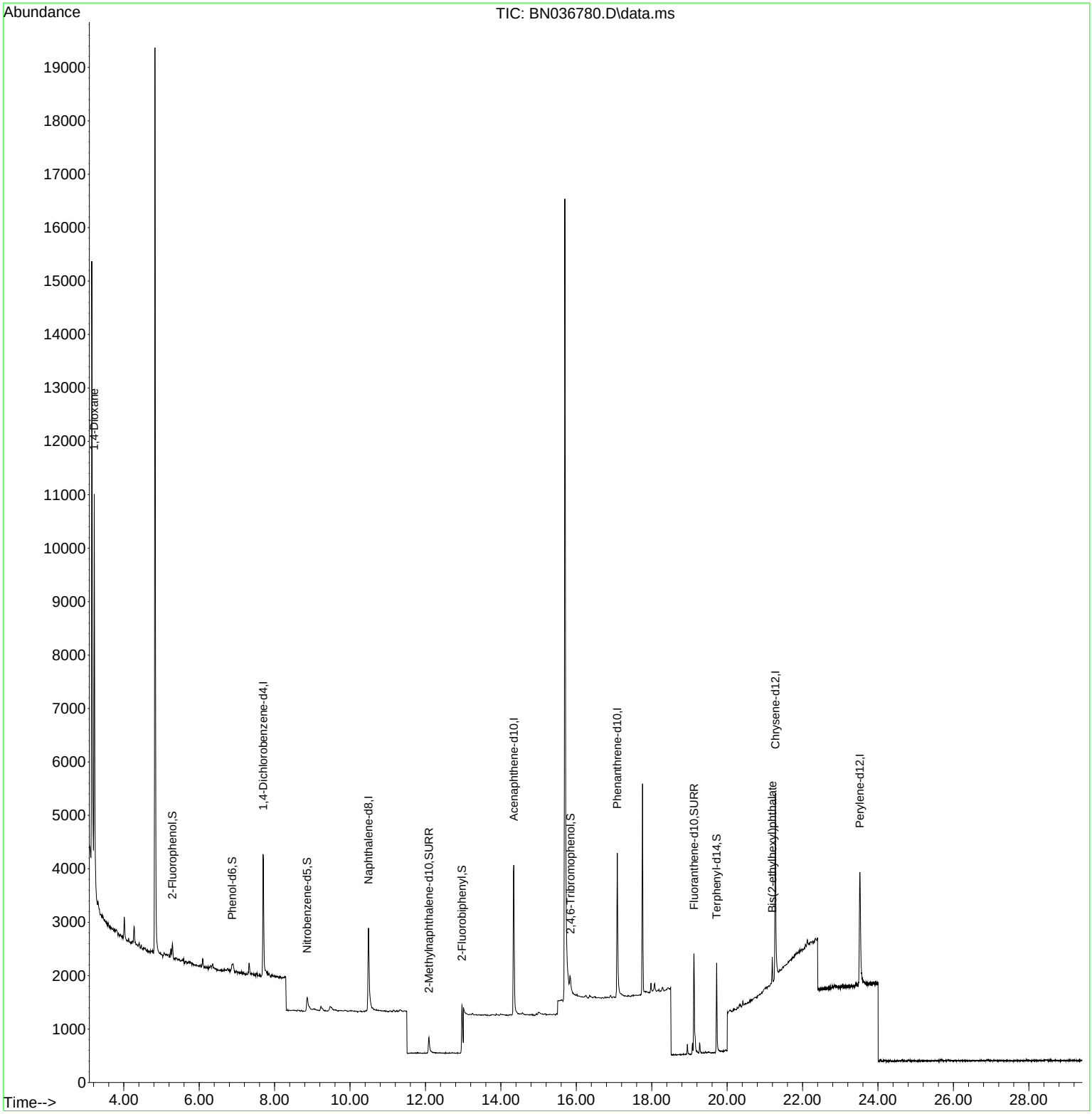
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1210	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	2842	0.400	ng	#-0.02
13) Acenaphthene-d10	14.345	164	1908	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4326	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3875	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3351	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	224	0.079	ng	-0.02
5) Phenol-d6	6.872	99	160	0.046	ng	-0.03
8) Nitrobenzene-d5	8.864	82	439	0.142	ng	-0.01
11) 2-Methylnaphthalene-d10	12.090	152	641	0.152	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	185	0.214	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	1663	0.150	ng	-0.02
27) Fluoranthene-d10	19.122	212	2467	0.223	ng	-0.02
31) Terphenyl-d14	19.722	244	1709	0.184	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	3808	2.837	ng	# 92
34) Bis(2-ethylhexyl)phtha...	21.196	149	537	0.056	ng	# 90

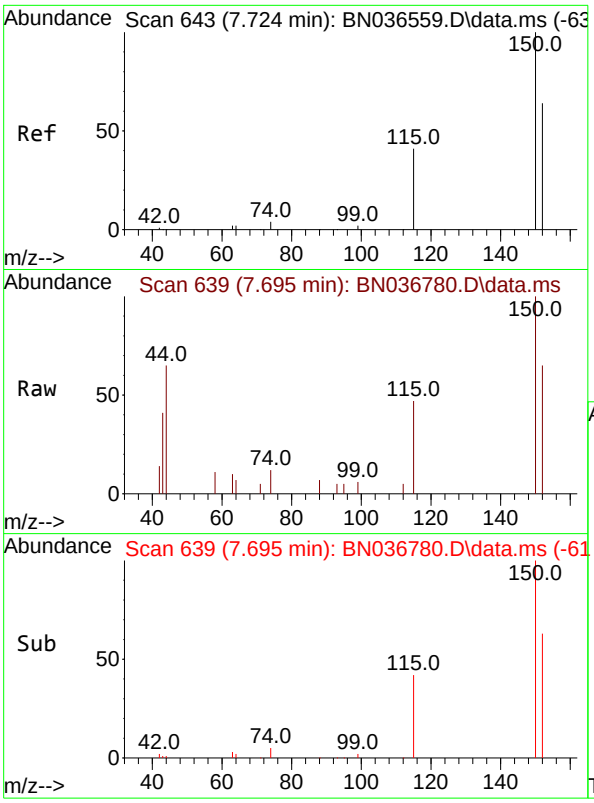
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036780.D
Acq On : 28 Mar 2025 19:26
Operator : RC/JU
Sample : Q1608-23DL 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Quant Time: Mar 28 22:52:31 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



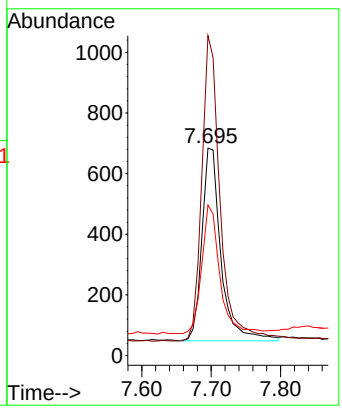


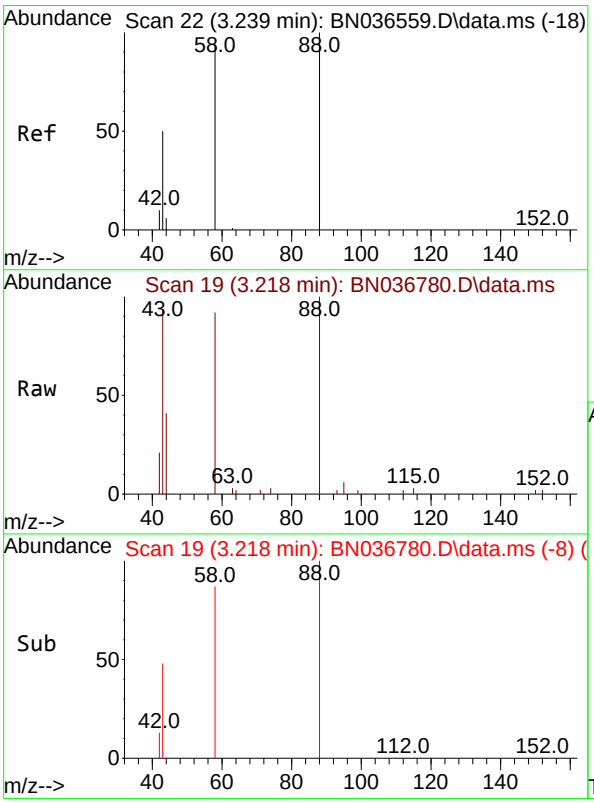
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Tgt Ion:152 Resp: 1210

Ion	Ratio	Lower	Upper
152	100		
150	154.2	123.7	185.5
115	72.5	54.3	81.5

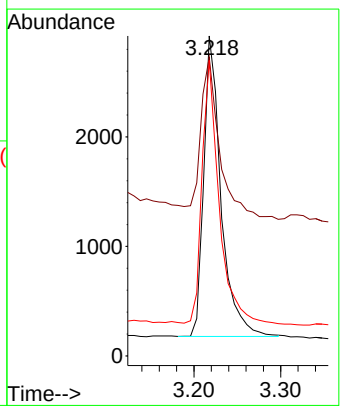


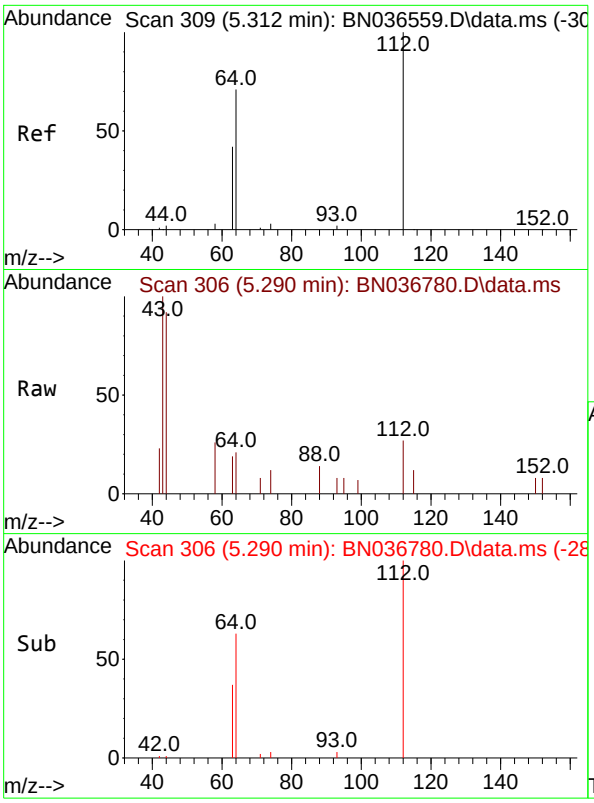


#2
1,4-Dioxane
Concen: 2.837 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Tgt Ion: 88 Resp: 3808

Ion	Ratio	Lower	Upper
88	100		
43	60.1	37.8	56.8#
58	86.0	67.4	101.2



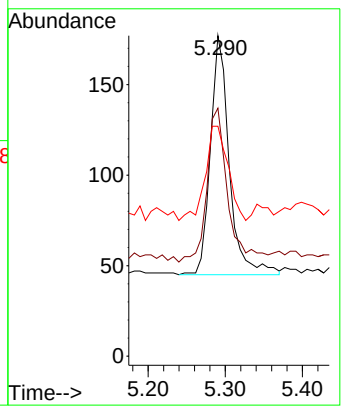


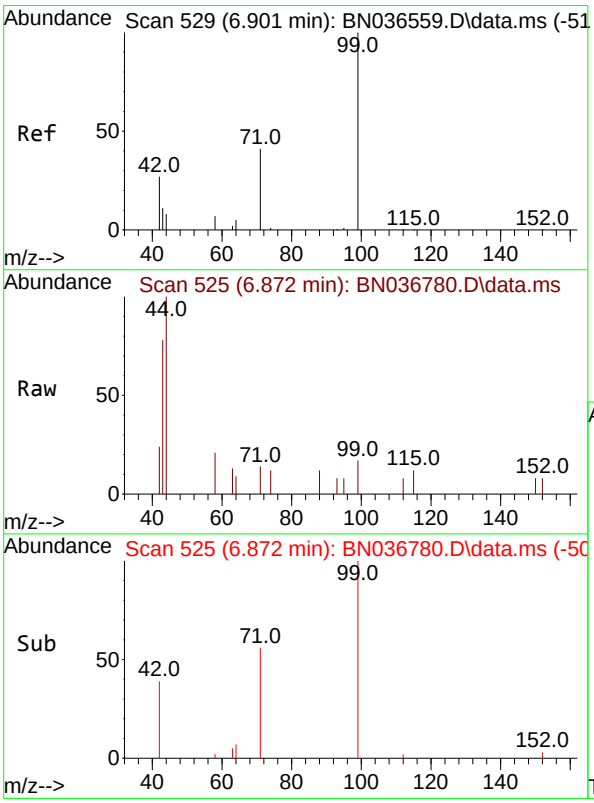
#4
2-Fluorophenol
Concen: 0.079 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Tgt Ion:112 Resp: 224

Ion	Ratio	Lower	Upper
112	100		
64	70.5	53.1	79.7
63	46.9	31.8	47.8

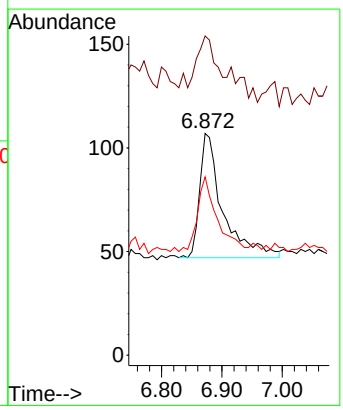


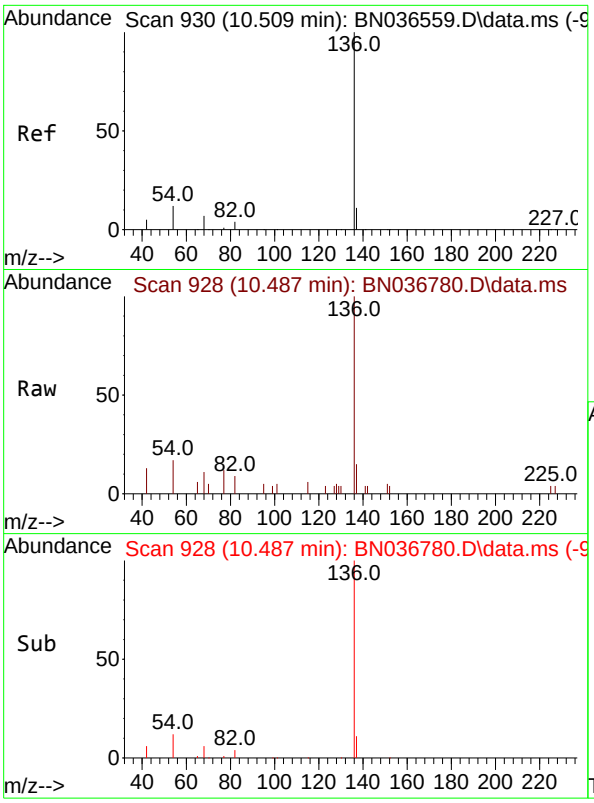


#5
Phenol-d6
Concen: 0.046 ng
RT: 6.872 min Scan# 525
Delta R.T. -0.029 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Tgt Ion: 99 Resp: 160

Ion	Ratio	Lower	Upper
99	100		
42	33.8	26.5	39.7
71	50.6	34.1	51.1



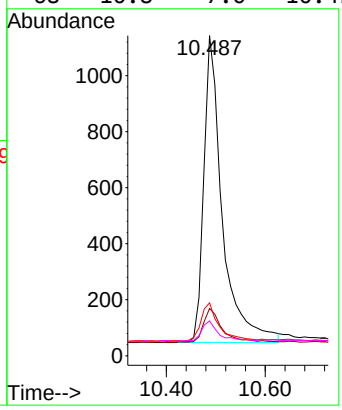


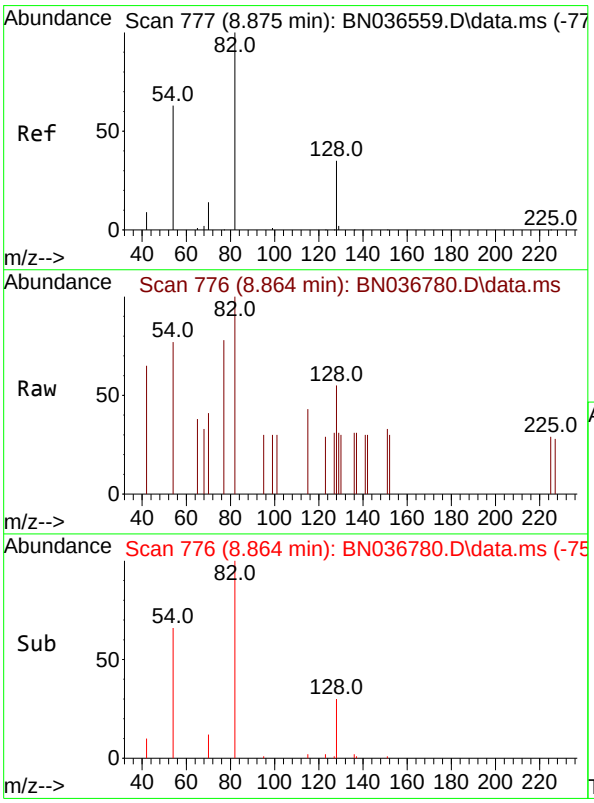
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Tgt Ion:136 Resp: 2842

Ion	Ratio	Lower	Upper
136	100		
137	14.8	10.3	15.5
54	16.5	11.5	17.3
68	10.8	7.0	10.4#

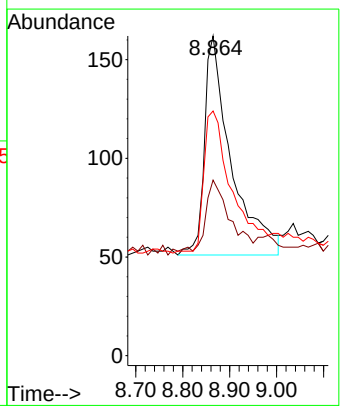


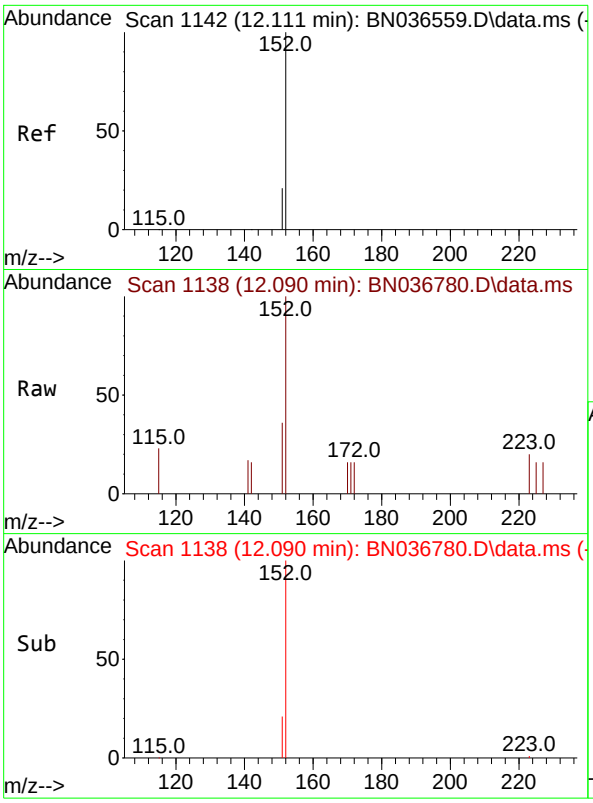


#8
Nitrobenzene-d5
Concen: 0.142 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Tgt Ion: 82 Resp: 439

Ion	Ratio	Lower	Upper
82	100		
128	54.9	30.6	45.8#
54	76.5	52.2	78.4



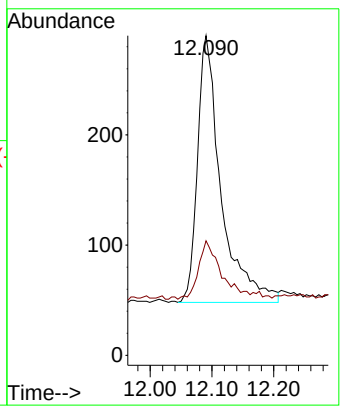


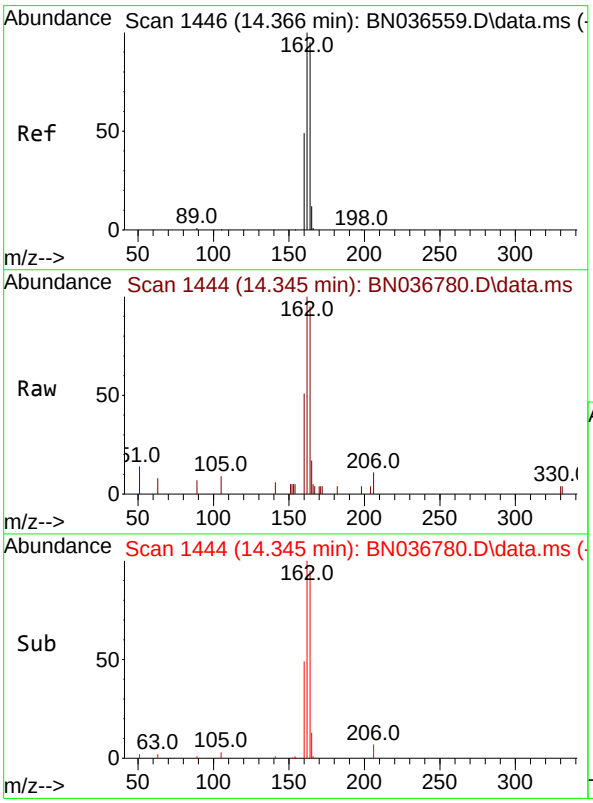
#11
2-Methylnaphthalene-d10
Concen: 0.152 ng
RT: 12.090 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Tgt Ion:152 Resp: 641

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

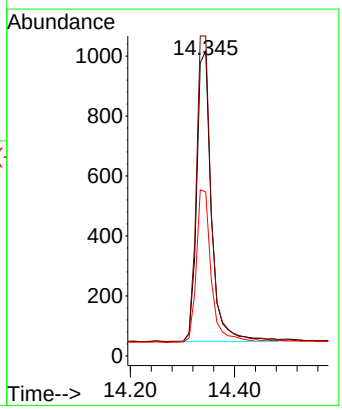


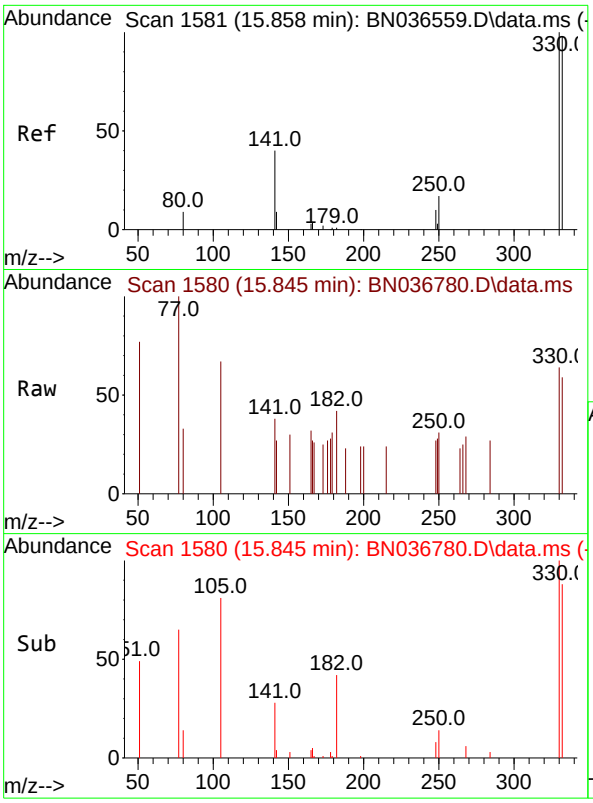


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Tgt Ion:164 Resp: 1908

Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.2	126.2
160	53.8	42.2	63.2



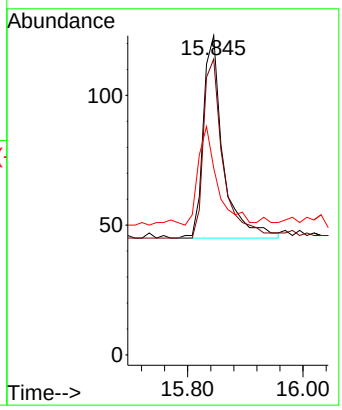


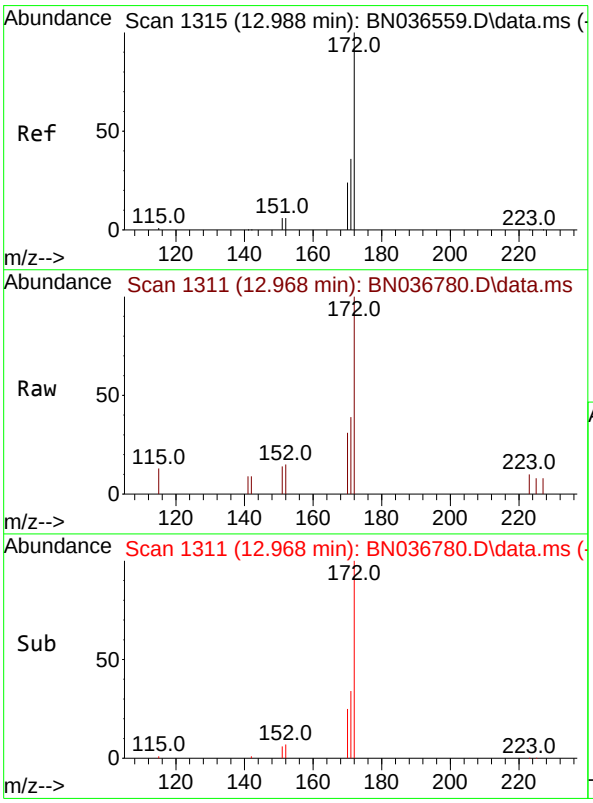
#14
2,4,6-Tribromophenol
Concen: 0.214 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Tgt Ion:330 Resp: 185

Ion	Ratio	Lower	Upper
330	100		
332	88.6	75.2	112.8
141	47.6	43.4	65.2

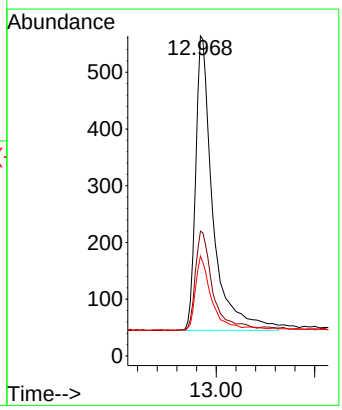


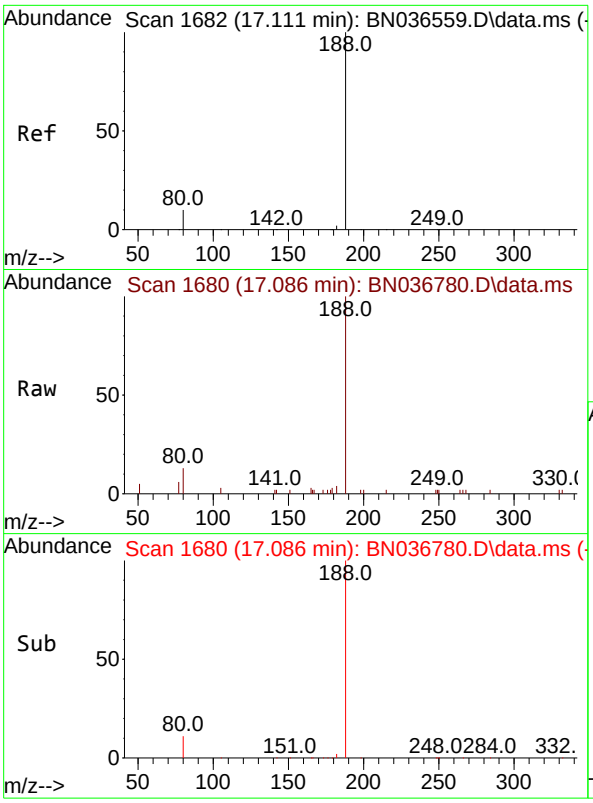


#15
2-Fluorobiphenyl
Concen: 0.150 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Tgt Ion:172 Resp: 1663

Ion	Ratio	Lower	Upper
172	100		
171	39.0	29.5	44.3
170	31.2	20.2	30.4#



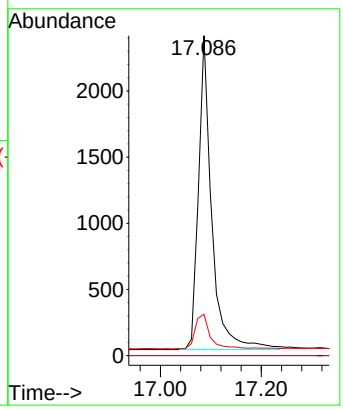


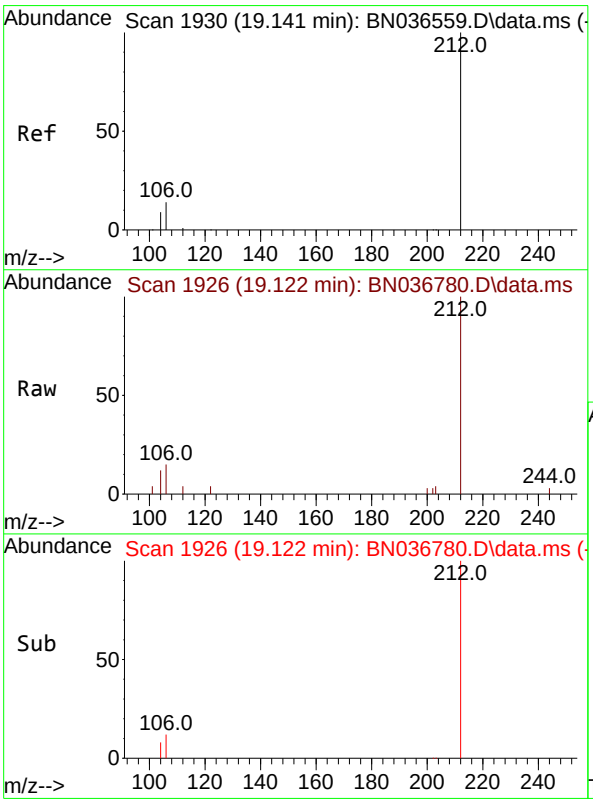
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Tgt Ion:188 Resp: 4326

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.9	8.8	13.2

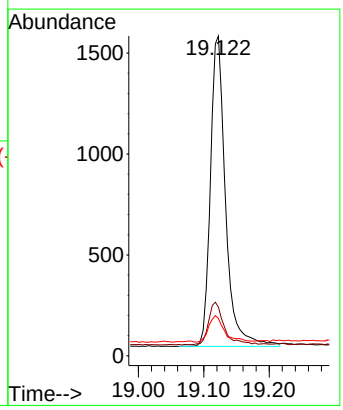


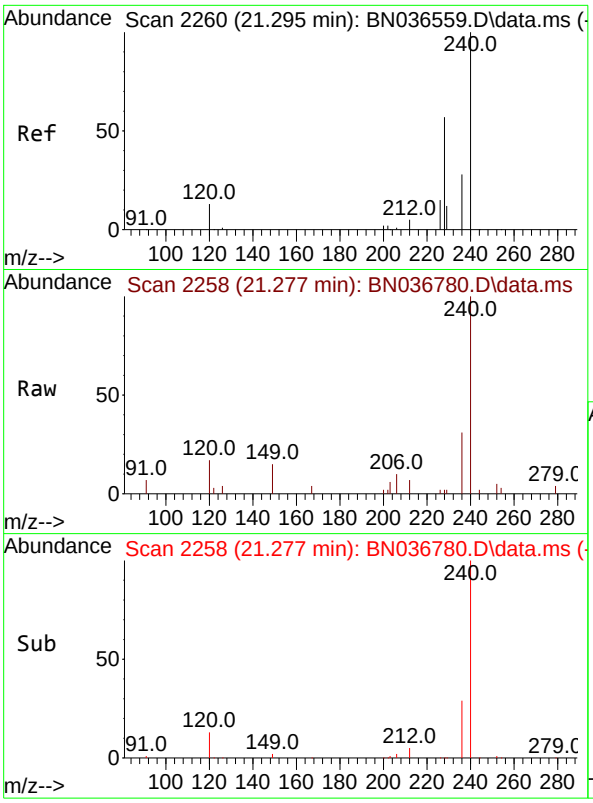


#27
Fluoranthene-d10
Concen: 0.223 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.019 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Tgt Ion:212 Resp: 2467

Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.8	17.6
104	8.9	7.3	10.9



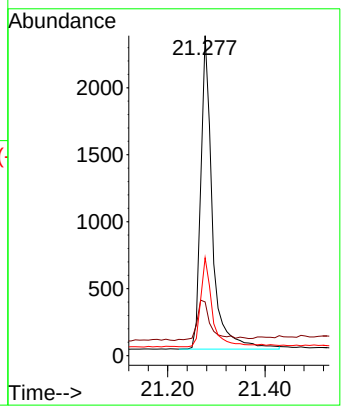


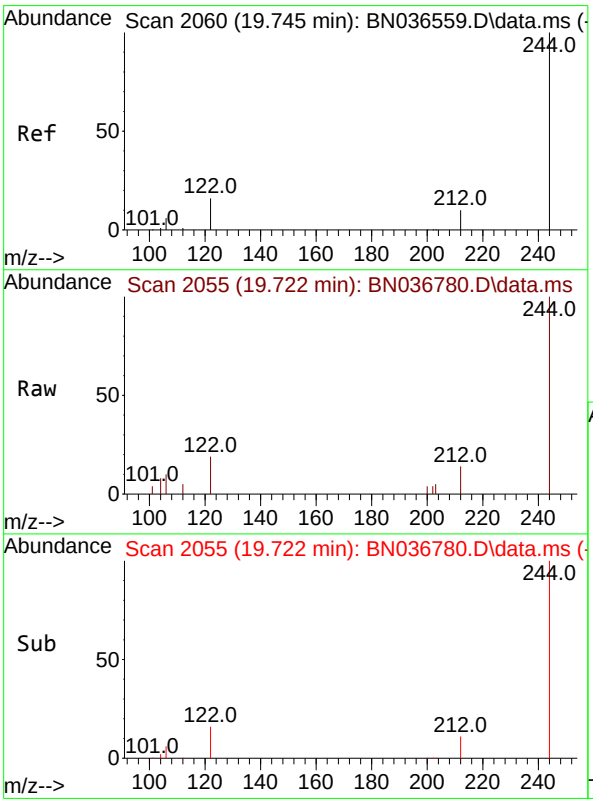
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Tgt Ion:240 Resp: 3875

Ion	Ratio	Lower	Upper
240	100		
120	16.8	14.6	22.0
236	30.6	24.1	36.1

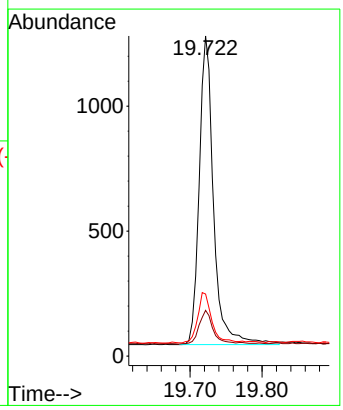


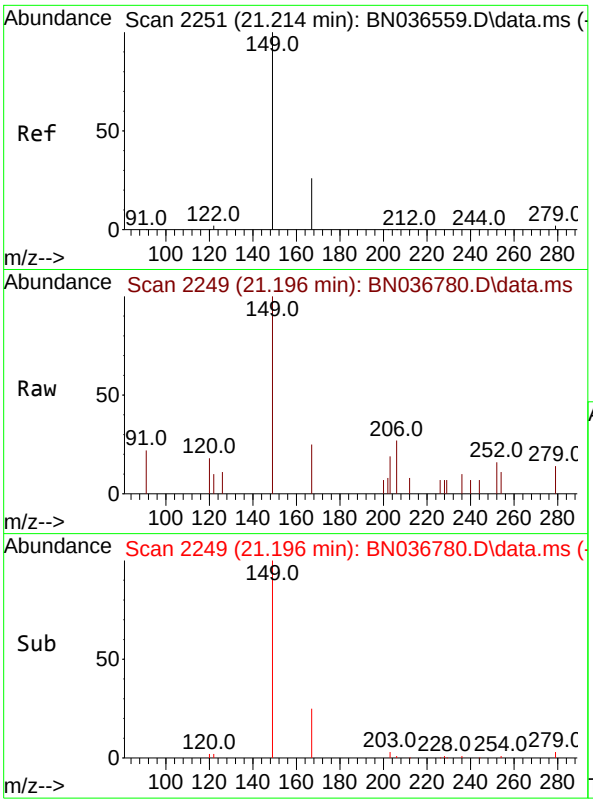


#31
Terphenyl-d14
Concen: 0.184 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Tgt Ion:244 Resp: 1709

Ion	Ratio	Lower	Upper
244	100		
212	14.3	9.6	14.4
122	19.4	13.9	20.9



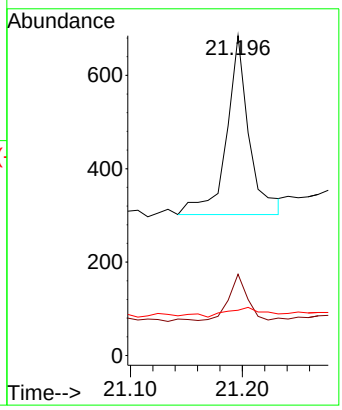


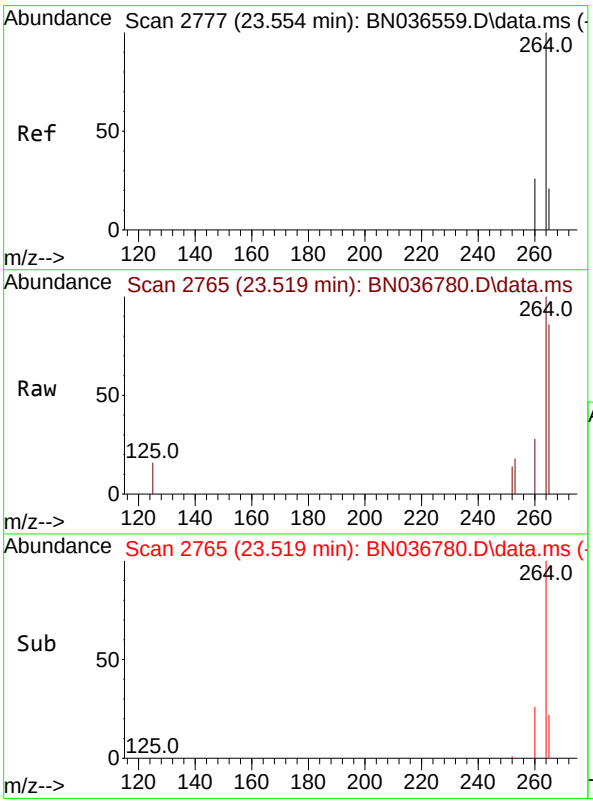
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.056 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250319DL

Tgt Ion:149 Resp: 537

Ion	Ratio	Lower	Upper
149	100		
167	20.9	20.7	31.1
279	8.8	3.6	5.4#

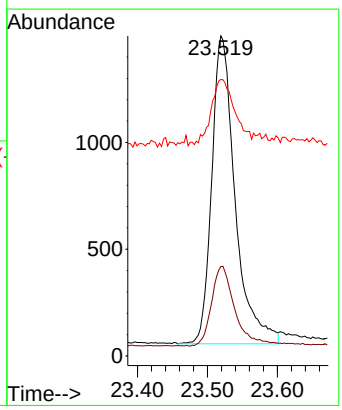




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036780.D
Acq: 28 Mar 2025 19:26

Tgt Ion:264 Resp: 3351

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.6	33.8
265	86.4	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RW8-MW01S-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-24	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036762.D	1	03/21/25 08:40	03/28/25 06:46	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.74		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1720	7.703				
1146-65-2	Naphthalene-d8	3890	10.487				
15067-26-2	Acenaphthene-d10	2450	14.345				
1517-22-2	Phenanthrene-d10	5270	17.086				
1719-03-5	Chrysene-d12	4300	21.277				
1520-96-3	Perylene-d12	3820	23.525				

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\BN032725\
Data File : BN036762.D
Acq On : 28 Mar 2025 06:46
Operator : RC/JU
Sample : Q1608-24
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Quant Time: Mar 28 07:10:58 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 16:06:28 2025
Response via : Initial Calibration

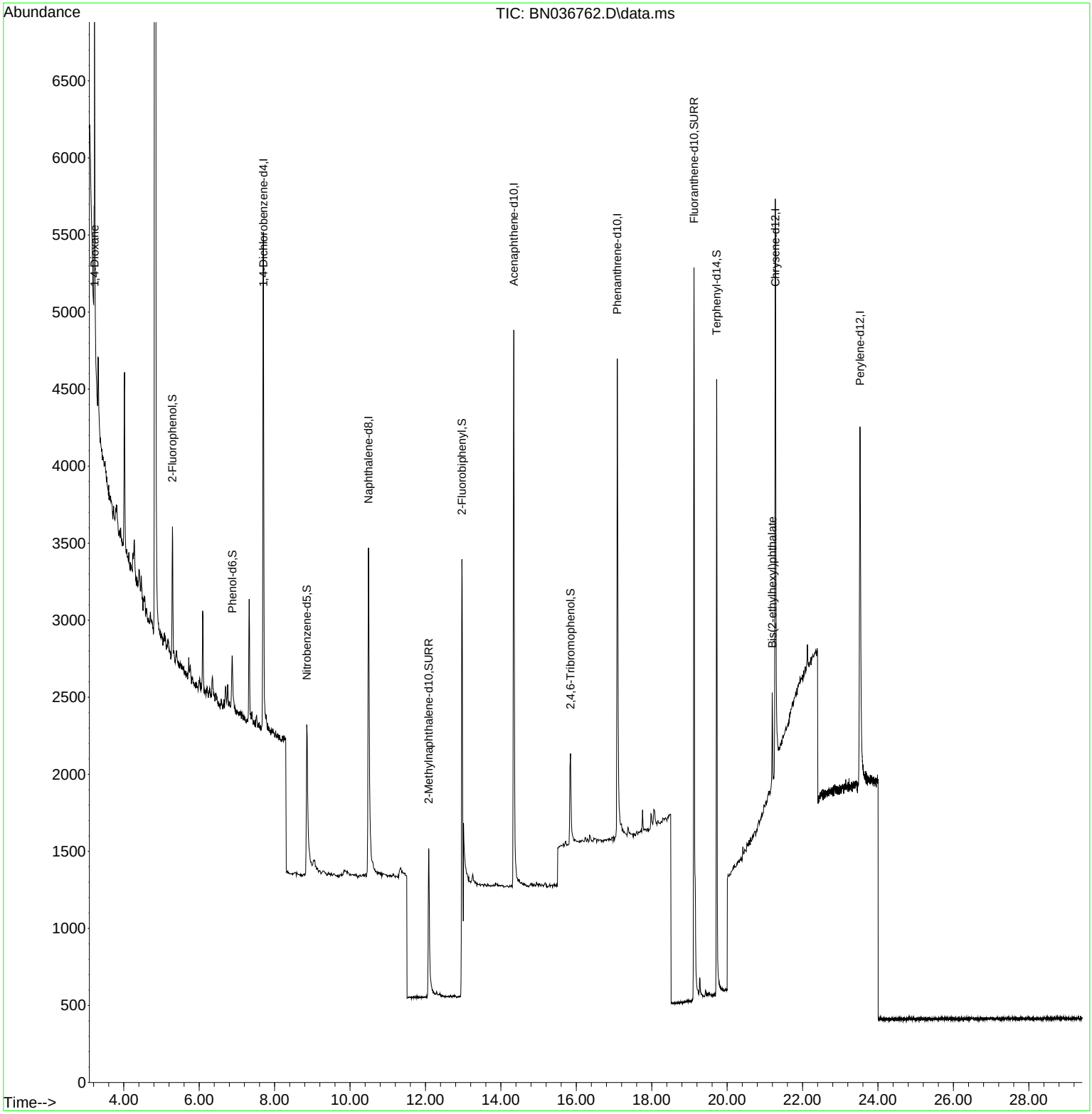
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1717	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3891	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2454	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	5265	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4302	0.400	ng	-0.02
35) Perylene-d12	23.525	264	3816	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	642	0.160	ng	-0.02
5) Phenol-d6	6.879	99	403	0.082	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1314	0.310	ng	-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2013	0.348	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	475	0.427	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	4668	0.327	ng	-0.02
27) Fluoranthene-d10	19.122	212	5984	0.443	ng	-0.02
31) Terphenyl-d14	19.722	244	4153	0.403	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	1418	0.744	ng	# 74
34) Bis(2-ethylhexyl)phtha...	21.196	149	610	0.057	ng	# 96

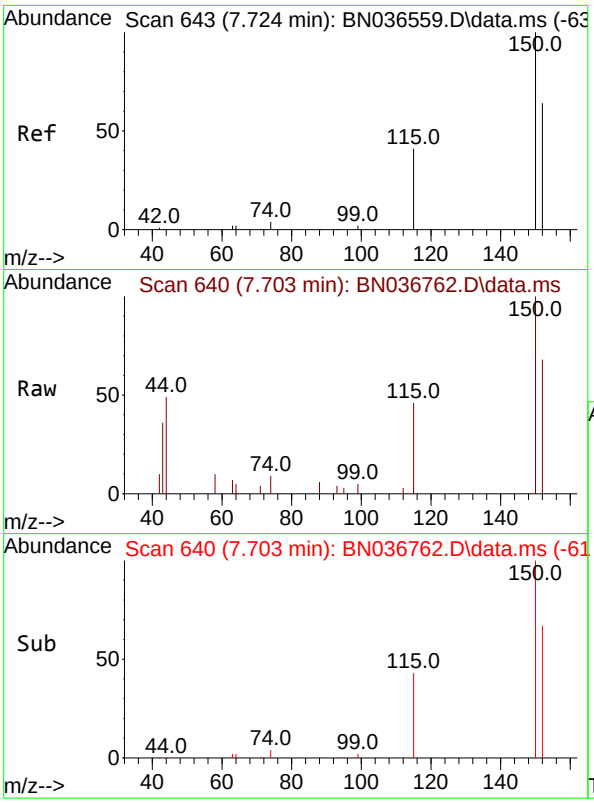
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036762.D
Acq On : 28 Mar 2025 06:46
Operator : RC/JU
Sample : Q1608-24
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Quant Time: Mar 28 07:10:58 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 16:06:28 2025
Response via : Initial Calibration



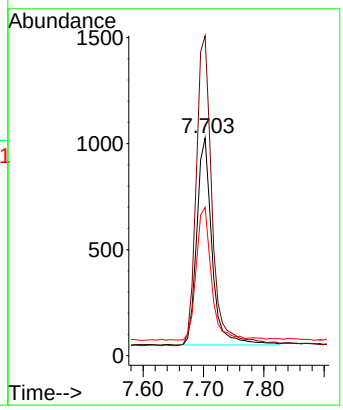


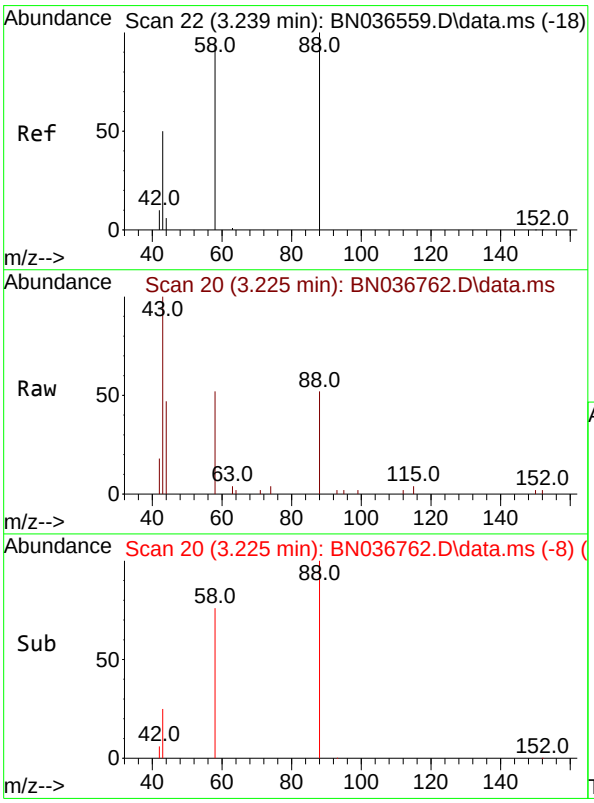
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Tgt Ion:152 Resp: 1717

Ion	Ratio	Lower	Upper
152	100		
150	146.9	123.7	185.5
115	68.1	54.3	81.5

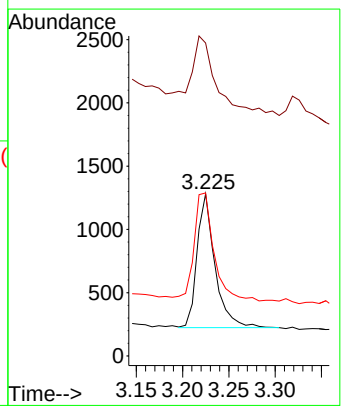


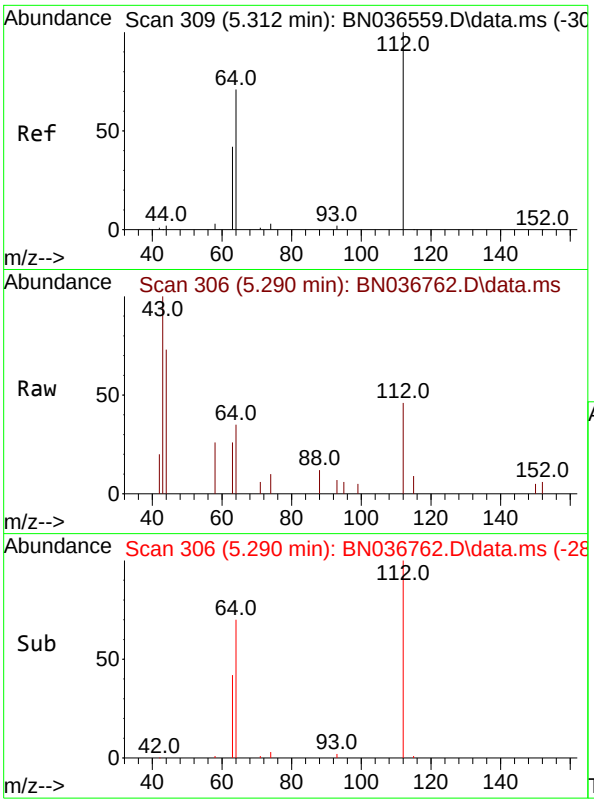


#2
1,4-Dioxane
Concen: 0.744 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Tgt Ion: 88 Resp: 1418

Ion	Ratio	Lower	Upper
88	100		
43	89.7	37.8	56.8#
58	88.5	67.4	101.2



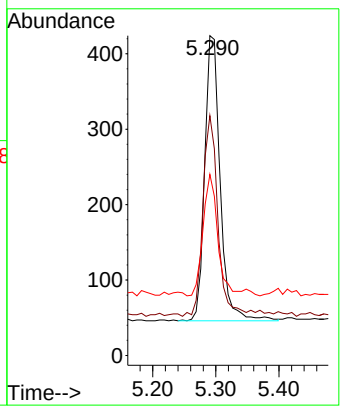


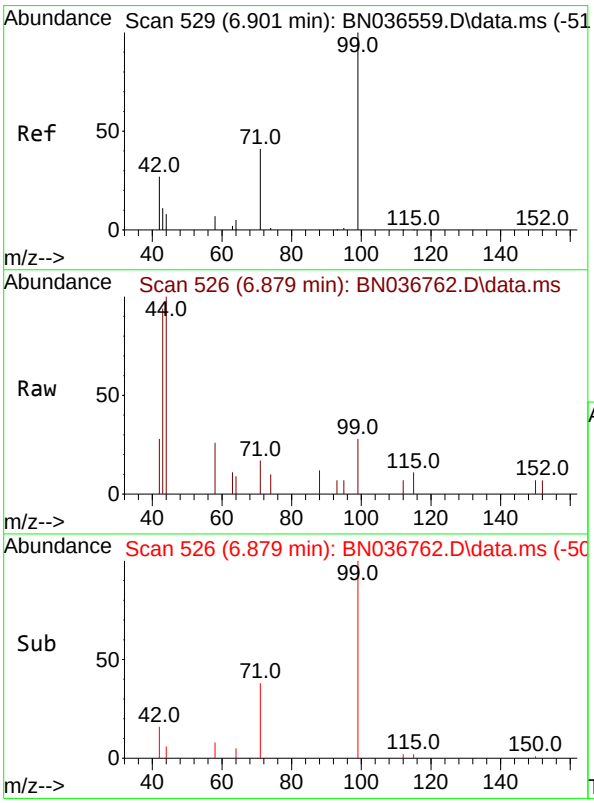
#4
2-Fluorophenol
Concen: 0.160 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Tgt Ion:112 Resp: 642

Ion	Ratio	Lower	Upper
112	100		
64	68.1	53.1	79.7
63	40.2	31.8	47.8

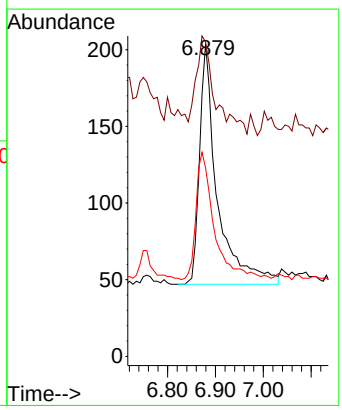


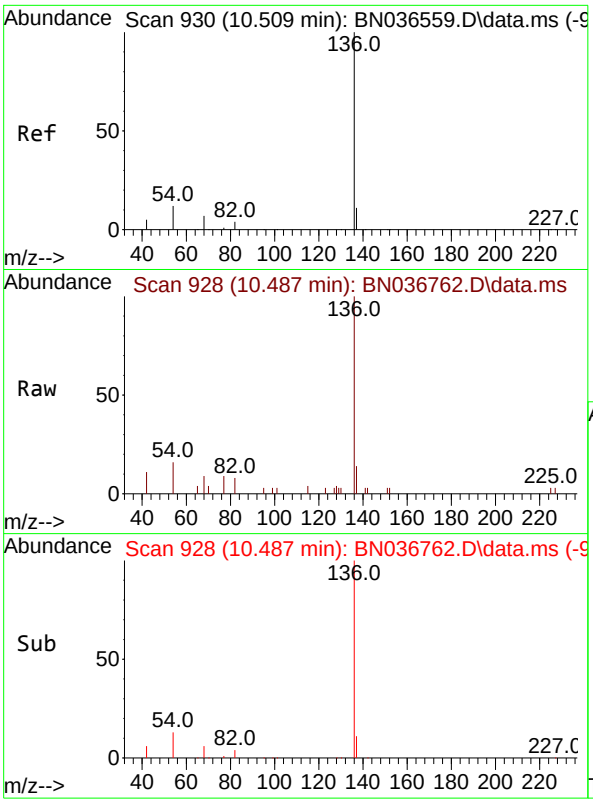


#5
Phenol-d6
Concen: 0.082 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Tgt Ion: 99 Resp: 403

Ion	Ratio	Lower	Upper
99	100		
42	43.4	26.5	39.7#
71	55.1	34.1	51.1#



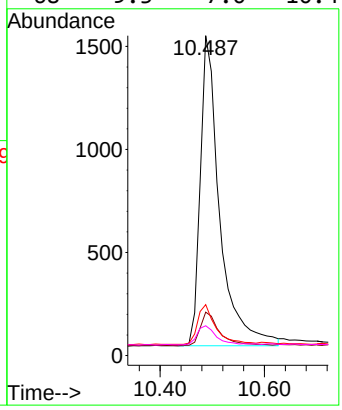


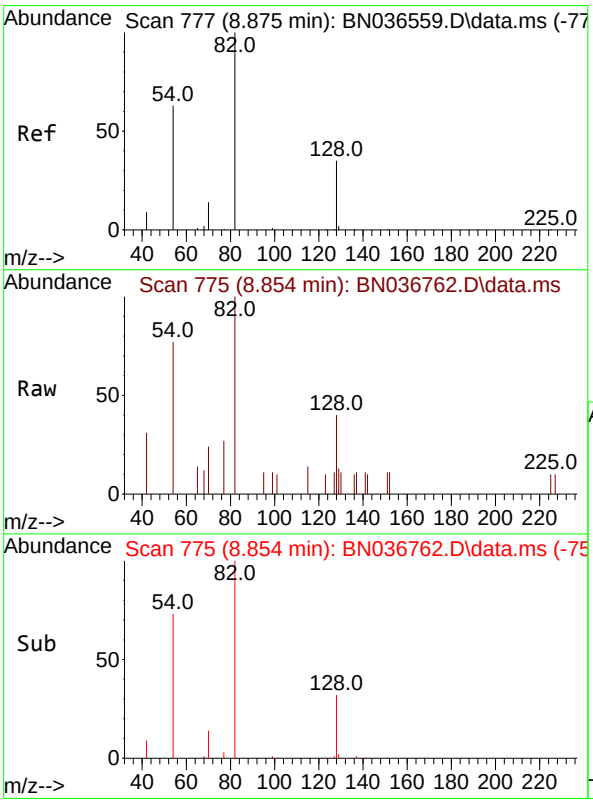
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Tgt Ion:136 Resp: 3891

Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.3	15.5
54	15.9	11.5	17.3
68	9.3	7.0	10.4

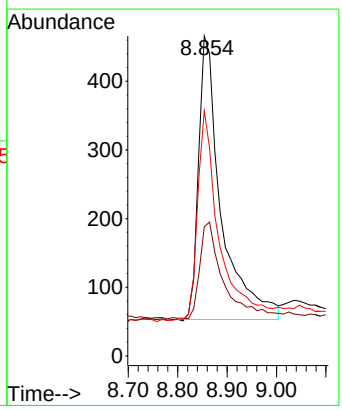


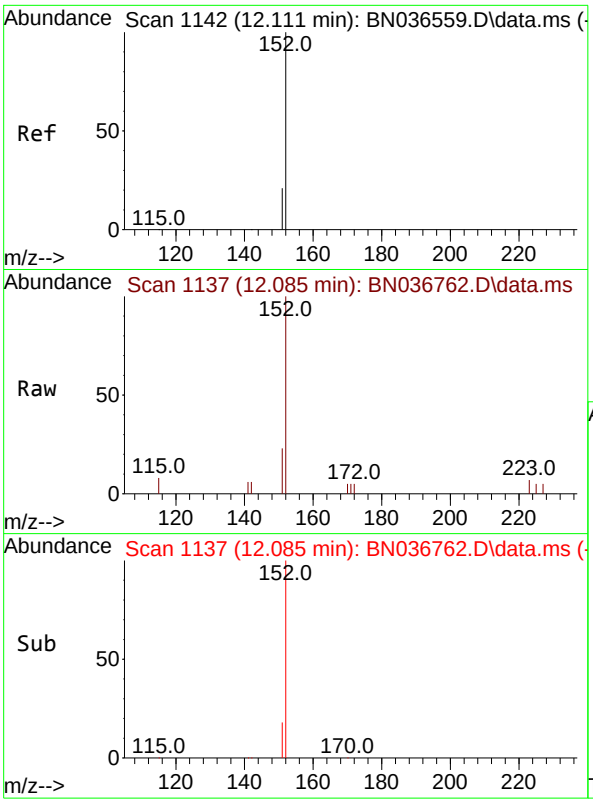


#8
Nitrobenzene-d5
Concen: 0.310 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Tgt Ion: 82 Resp: 1314

Ion	Ratio	Lower	Upper
82	100		
128	40.3	30.6	45.8
54	76.6	52.2	78.4



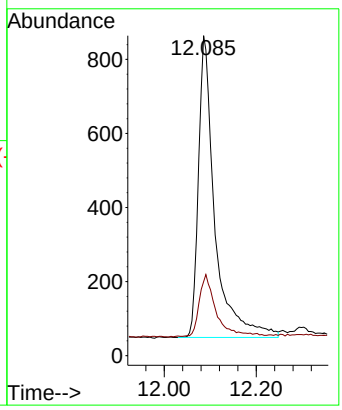


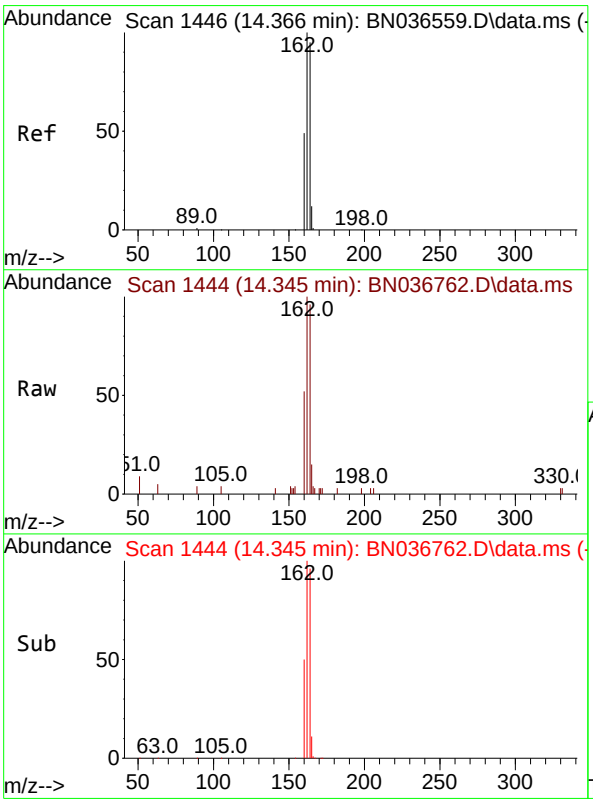
#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Tgt Ion:152 Resp: 2013

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

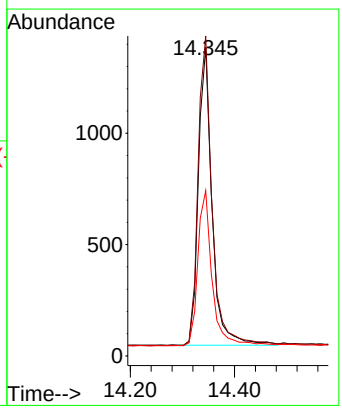


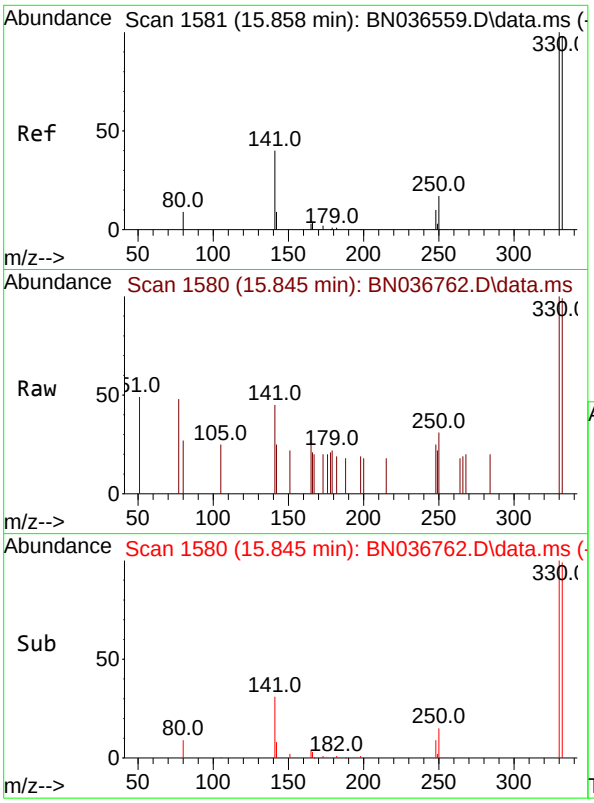


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Tgt Ion:164 Resp: 2454

Ion	Ratio	Lower	Upper
164	100		
162	103.8	84.2	126.2
160	53.6	42.2	63.2



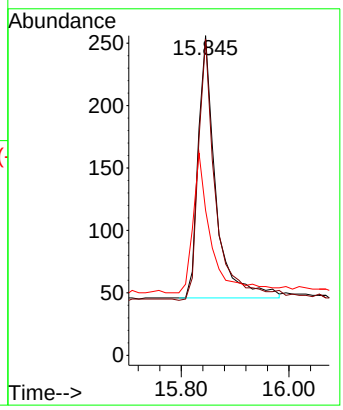


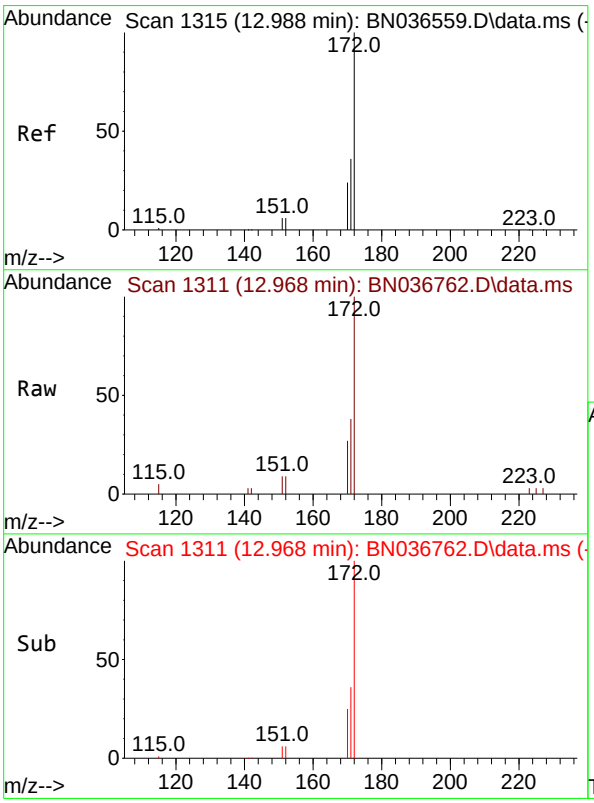
#14
2,4,6-Tribromophenol
Concen: 0.427 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Tgt Ion:330 Resp: 475

Ion	Ratio	Lower	Upper
330	100		
332	98.9	75.2	112.8
141	54.1	43.4	65.2

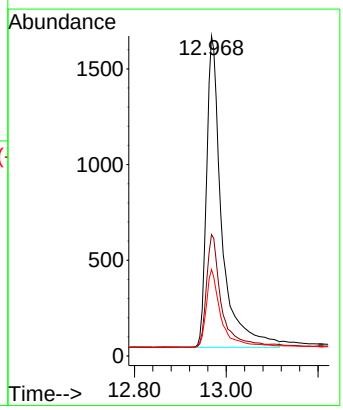


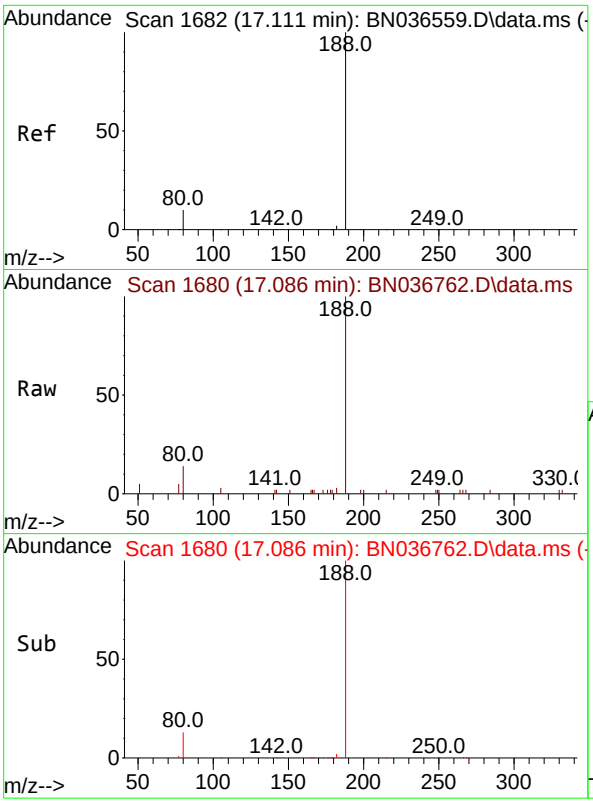


#15
2-Fluorobiphenyl
Concen: 0.327 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Tgt Ion:172 Resp: 4668

Ion	Ratio	Lower	Upper
172	100		
171	38.0	29.5	44.3
170	27.0	20.2	30.4



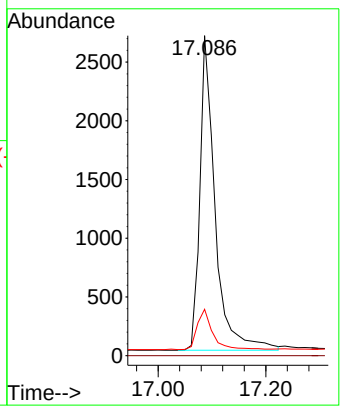


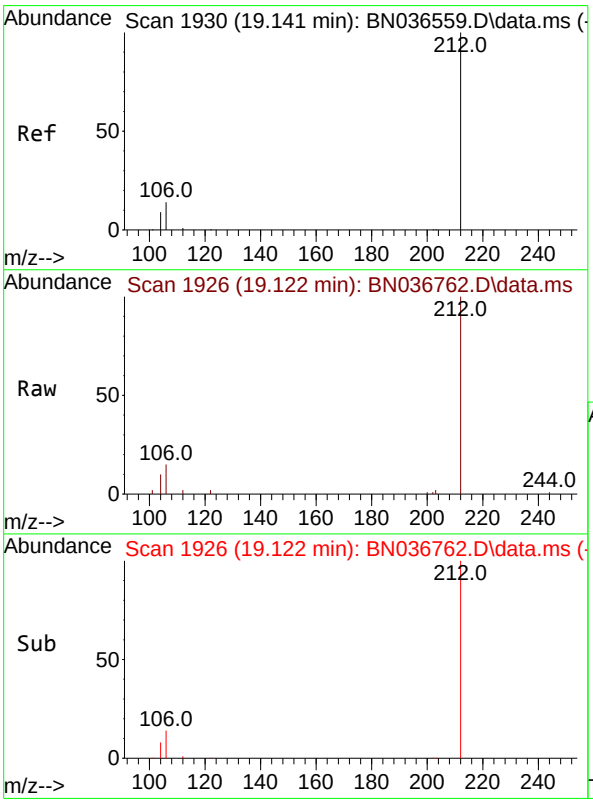
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Tgt Ion:188 Resp: 5265

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	8.8	13.2#

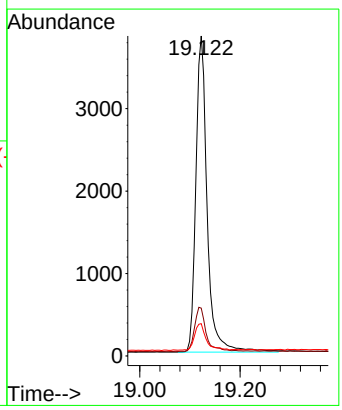


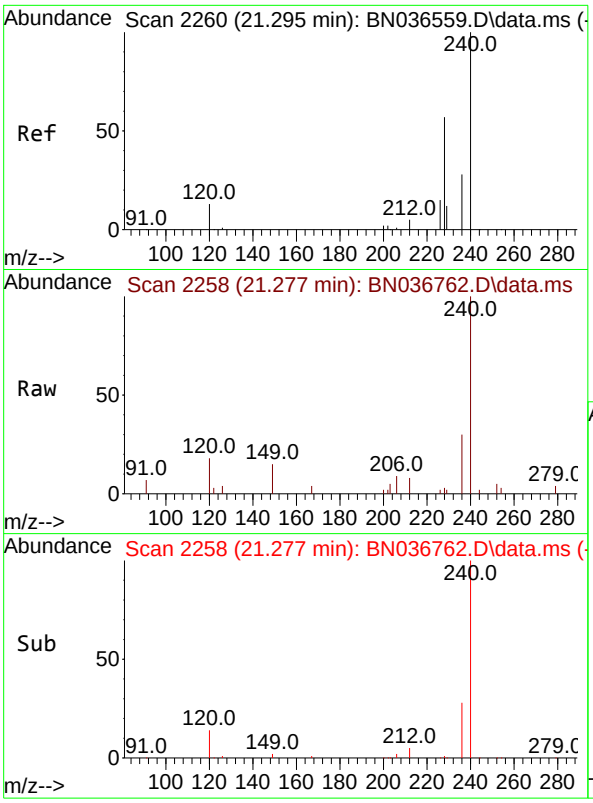


#27
Fluoranthene-d10
Concen: 0.443 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.019 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Tgt Ion:212 Resp: 5984

Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.8	17.6
104	8.6	7.3	10.9



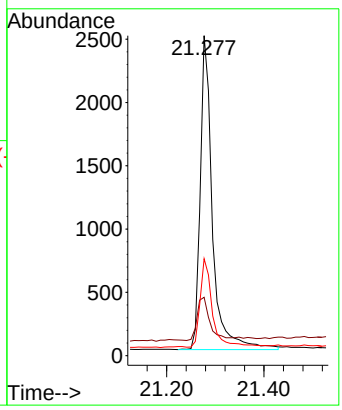


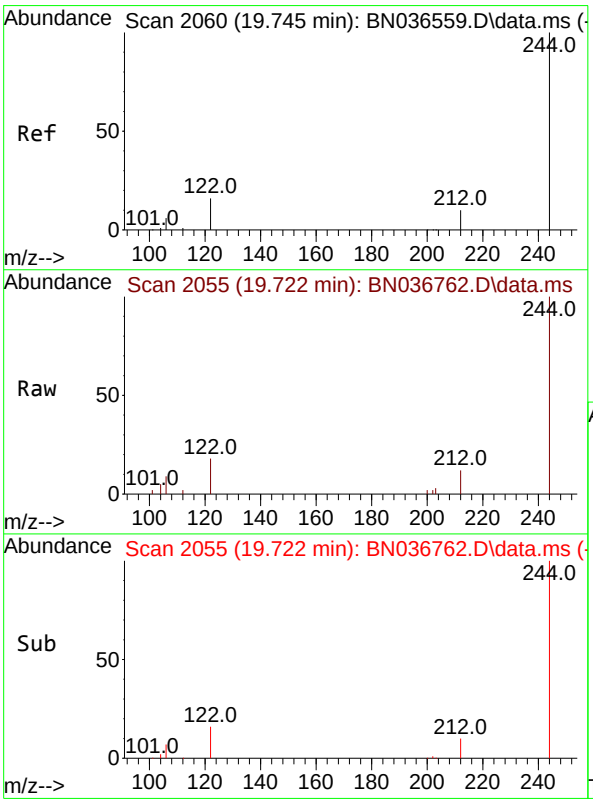
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Tgt Ion:240 Resp: 4302

Ion	Ratio	Lower	Upper
240	100		
120	18.2	14.6	22.0
236	30.3	24.1	36.1

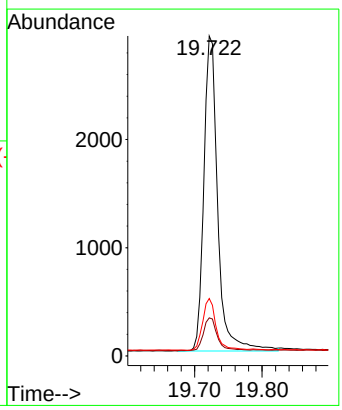


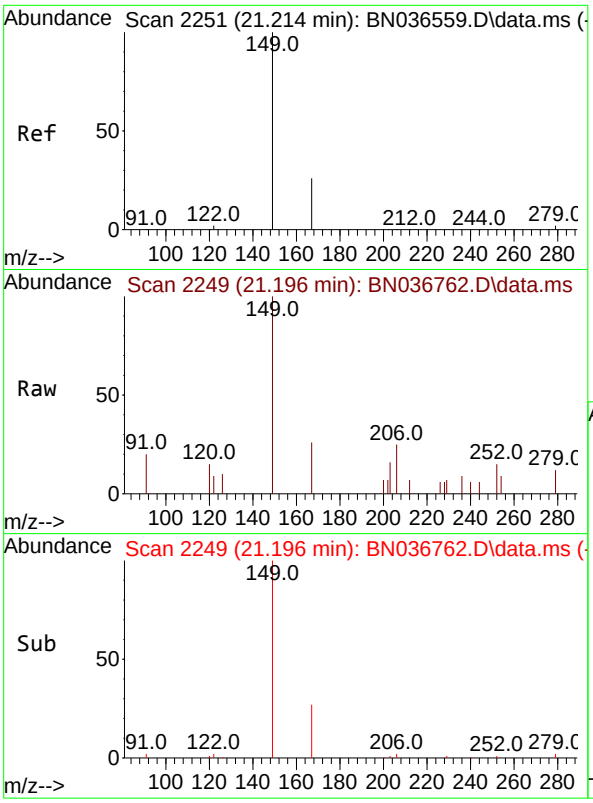


#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Tgt Ion:244 Resp: 4153

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	17.9	13.9	20.9



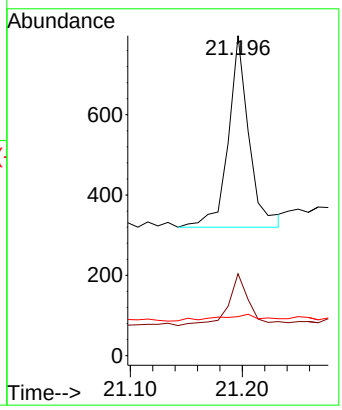


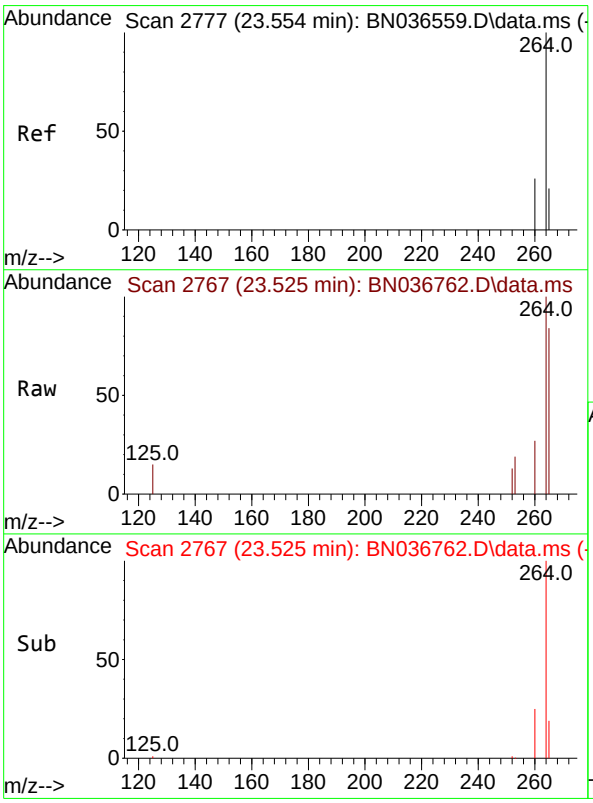
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.057 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Instrument :
BNA_N
ClientSampleId :
RW8-MW01S-20250319

Tgt Ion:149 Resp: 610

Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	6.6	3.6	5.4#

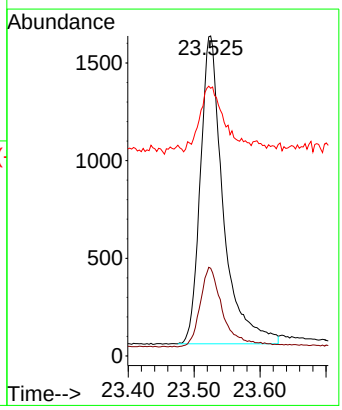




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2767
Delta R.T. -0.029 min
Lab File: BN036762.D
Acq: 28 Mar 2025 06:46

Tgt Ion:264 Resp: 3816

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	83.6	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RW8-MW01D1-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-25	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036763.D	1	03/21/25 08:40	03/28/25 07:22	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		92%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		117%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		96%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1290	7.703				
1146-65-2	Naphthalene-d8	2920	10.498				
15067-26-2	Acenaphthene-d10	1860	14.345				
1517-22-2	Phenanthrene-d10	4050	17.086				
1719-03-5	Chrysene-d12	3690	21.277				
1520-96-3	Perylene-d12	3430	23.525				

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\BN032725\
Data File : BN036763.D
Acq On : 28 Mar 2025 07:22
Operator : RC/JU
Sample : Q1608-25
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 28 07:50:09 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	7.703	152	1286	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	2922	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	1856	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4045	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3693	0.400	ng	-0.02
35) Perylene-d12	23.525	264	3430	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	501	0.167	ng	-0.02
5) Phenol-d6	6.879	99	325	0.088	ng	-0.02
8) Nitrobenzene-d5	8.865	82	1043	0.328	ng	-0.01
11) 2-Methylnaphthalene-d10	12.085	152	1603	0.369	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	385	0.457	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	3677	0.341	ng	-0.02
27) Fluoranthene-d10	19.122	212	4853	0.468	ng	-0.02
31) Terphenyl-d14	19.722	244	3401	0.384	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	454	0.318	ng	# 36
34) Bis(2-ethylhexyl)phtha...	21.196	149	358m	0.039	ng	

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

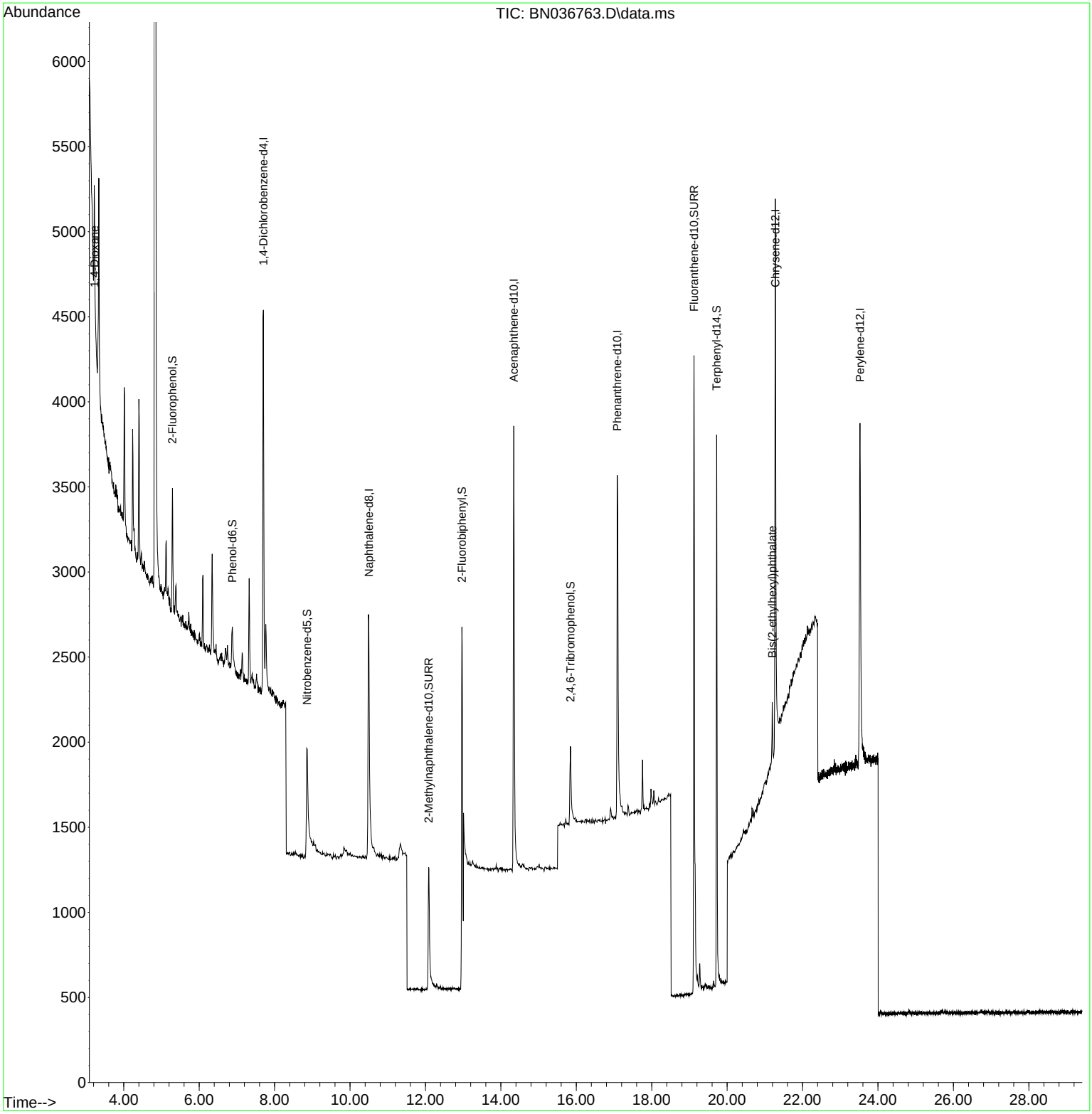
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036763.D
Acq On : 28 Mar 2025 07:22
Operator : RC/JU
Sample : Q1608-25
Misc :
ALS Vial : 28 Sample Multiplier: 1

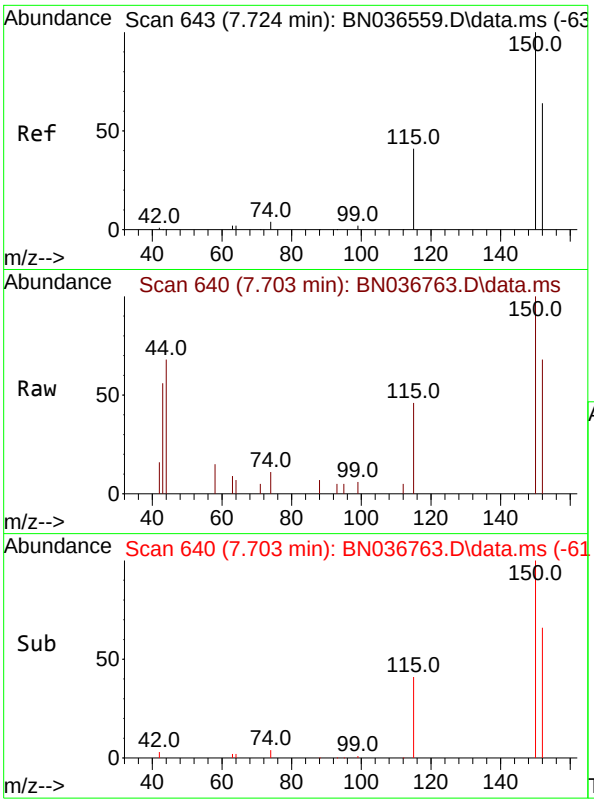
Quant Time: Mar 28 07:50:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

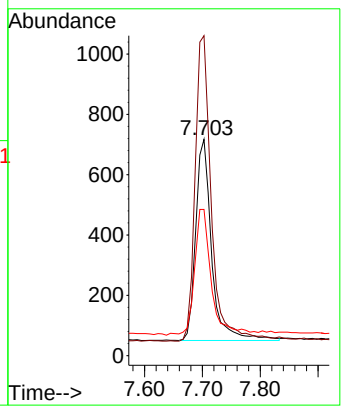




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:152 Resp: 128

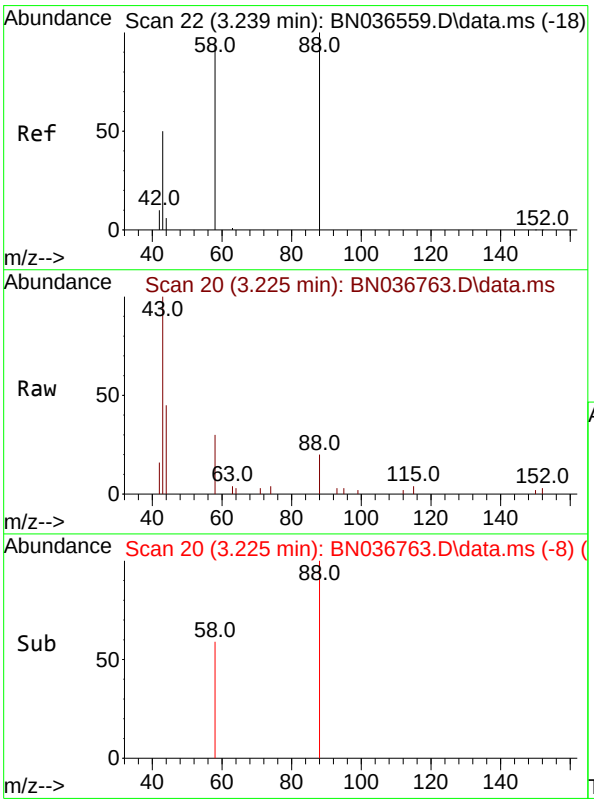
Ion	Ratio	Lower	Upper
152	100		
150	148.0	123.7	185.5
115	67.6	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations
APPROVED

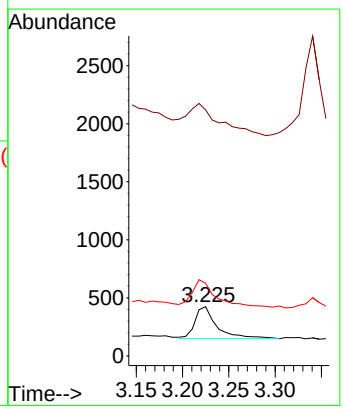
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

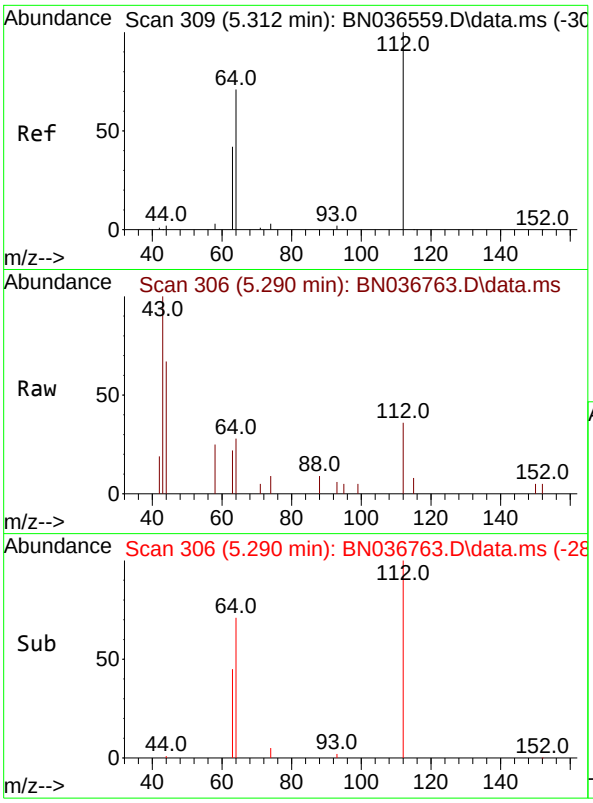


#2
1,4-Dioxane
Concen: 0.318 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion: 88 Resp: 454

Ion	Ratio	Lower	Upper
88	100		
43	157.0	37.8	56.8#
58	91.9	67.4	101.2

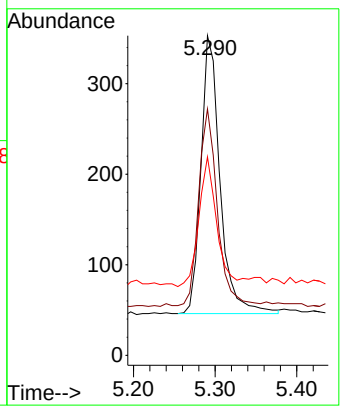




#4
2-Fluorophenol
Concen: 0.167 ng
RT: 5.290 min Scan# 3(
Delta R.T. -0.022 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:112 Resp: 50

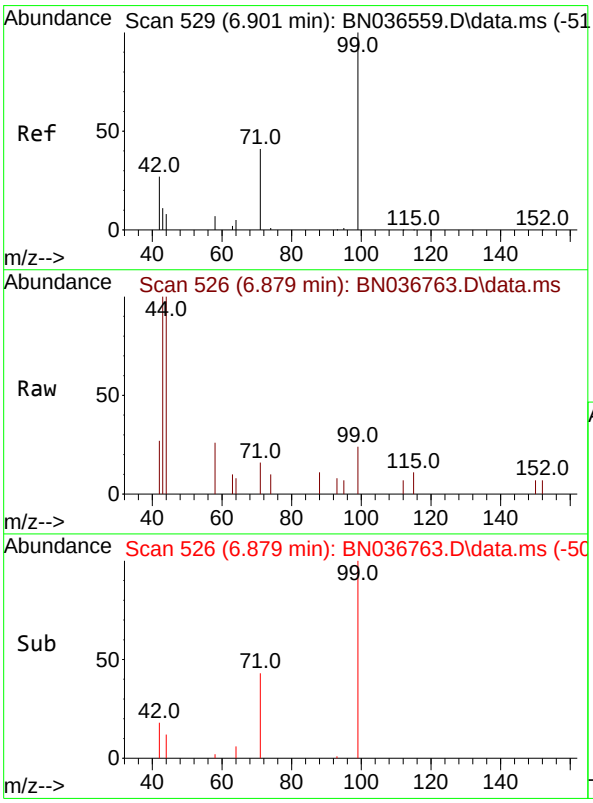
Ion	Ratio	Lower	Upper
112	100		
64	68.7	53.1	79.7
63	44.3	31.8	47.8



Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations
APPROVED

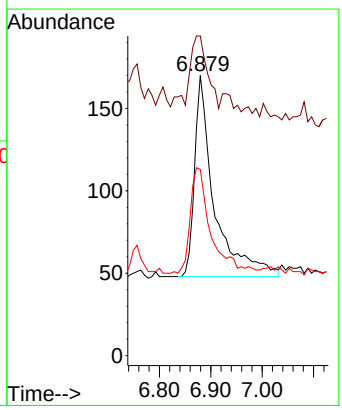
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

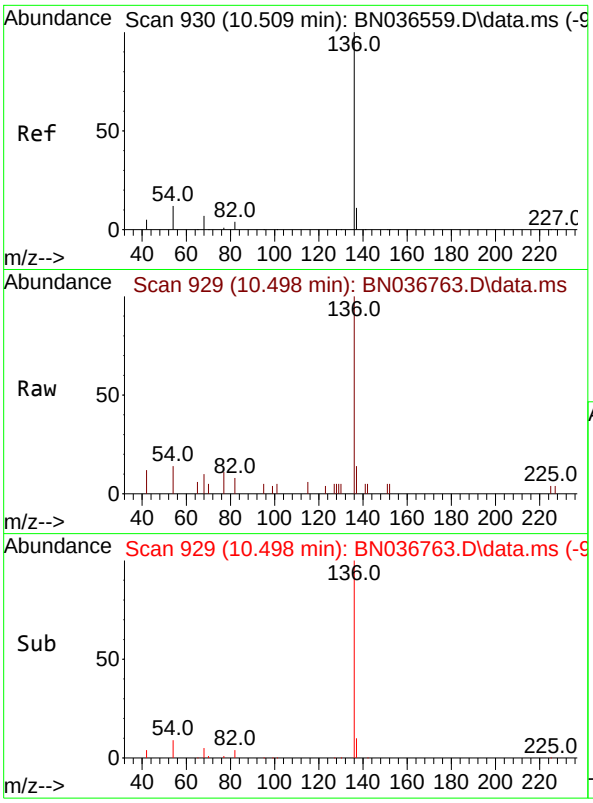


#5
Phenol-d6
Concen: 0.088 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion: 99 Resp: 325

Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	54.2	34.1	51.1#

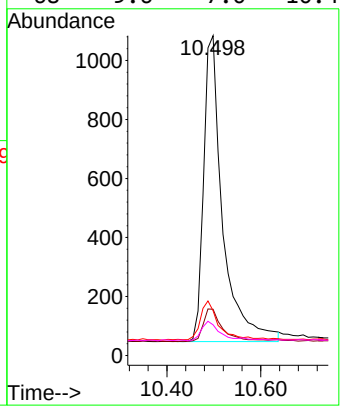




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:136 Resp: 292

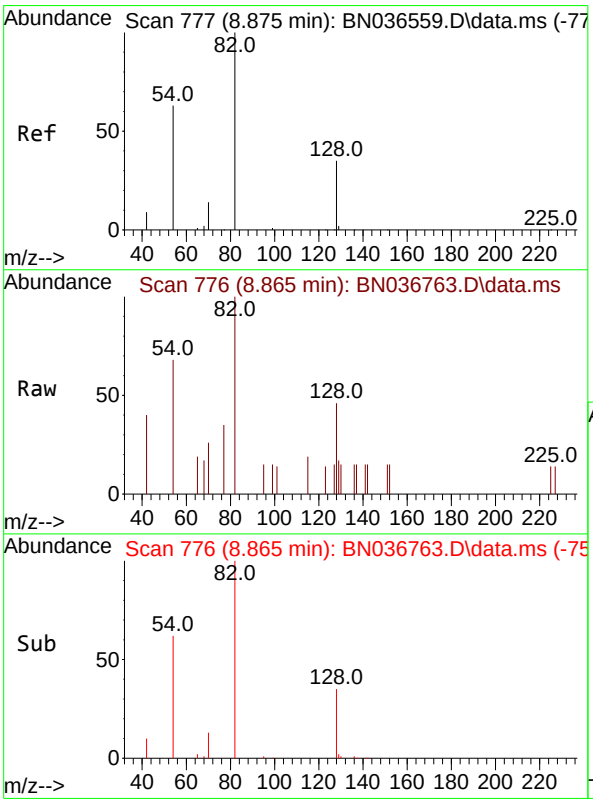
Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.3	15.5
54	14.0	11.5	17.3
68	9.6	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations
APPROVED

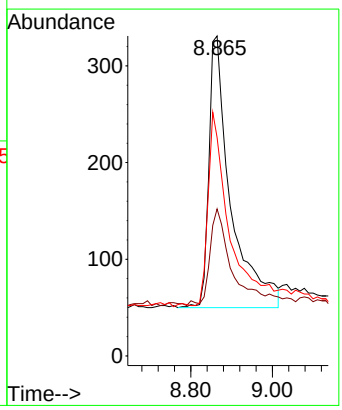
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

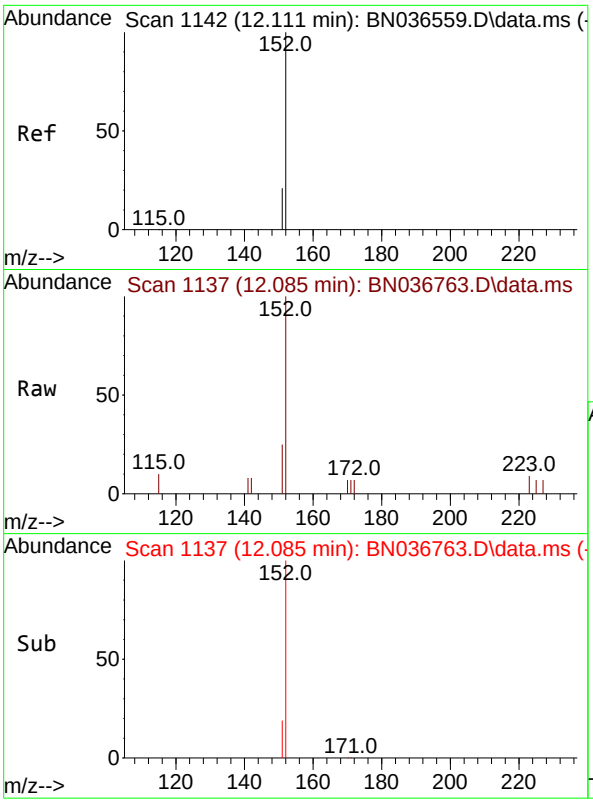


#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion: 82 Resp: 1043

Ion	Ratio	Lower	Upper
82	100		
128	45.9	30.6	45.8#
54	68.3	52.2	78.4





#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

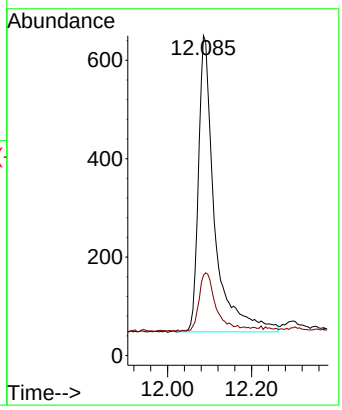
Tgt Ion:152 Resp: 160

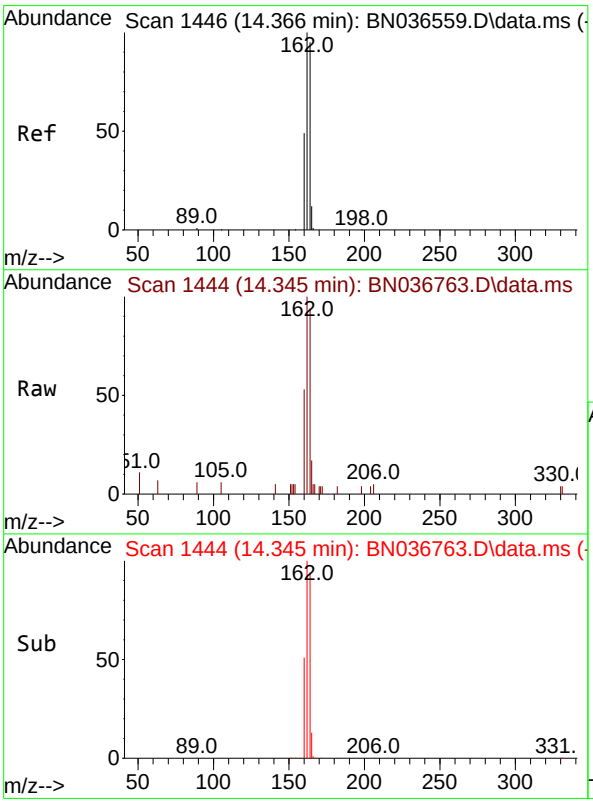
Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

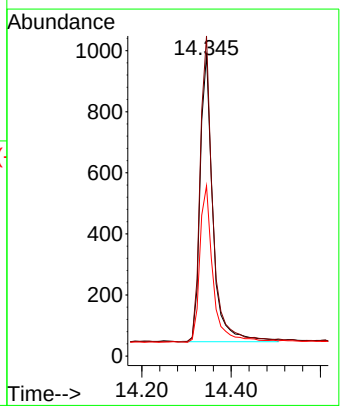


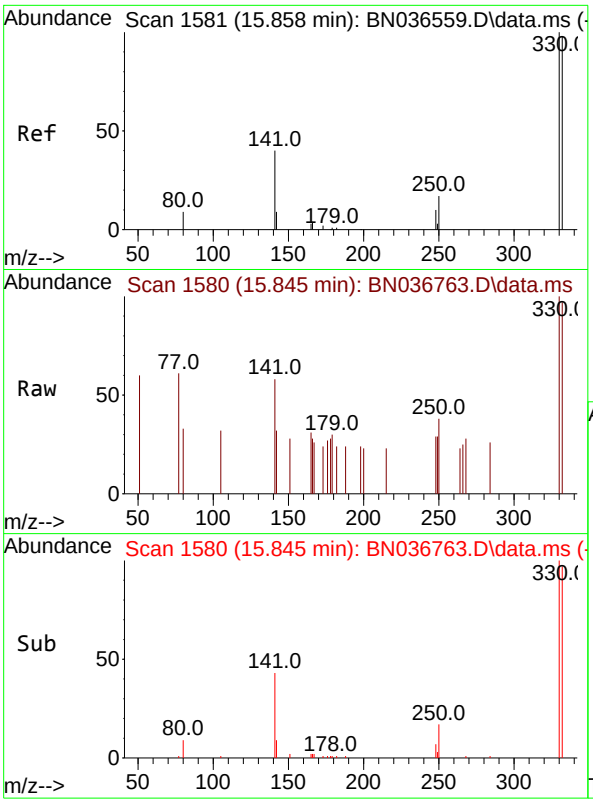


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:164 Resp: 1856

Ion	Ratio	Lower	Upper
164	100		
162	106.2	84.2	126.2
160	56.4	42.2	63.2

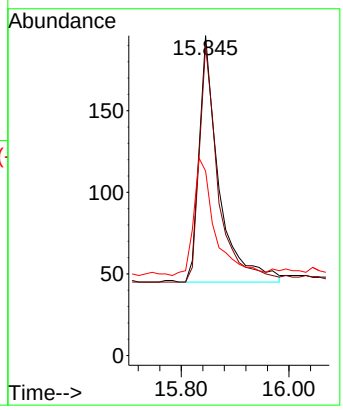




#14
2,4,6-Tribromophenol
Concen: 0.457 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:330 Resp: 38

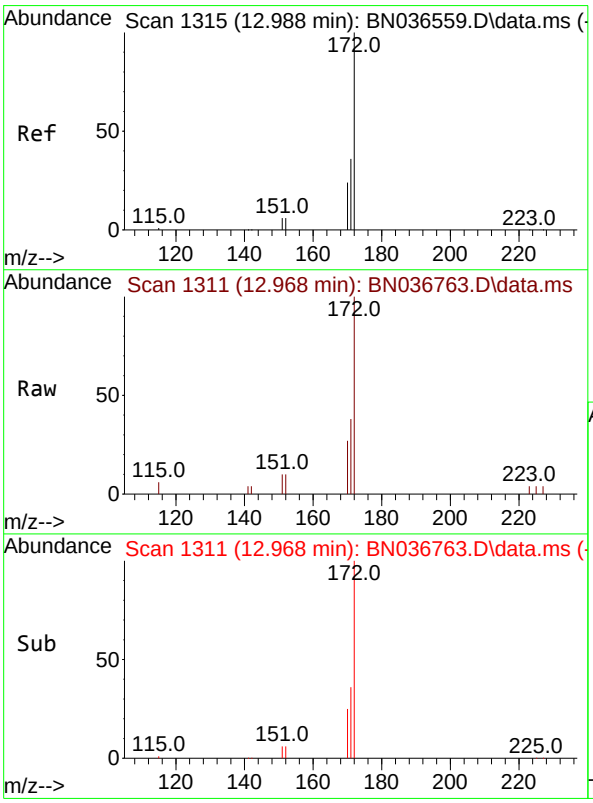
Ion	Ratio	Lower	Upper
330	100		
332	92.5	75.2	112.8
141	51.2	43.4	65.2



Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations
APPROVED

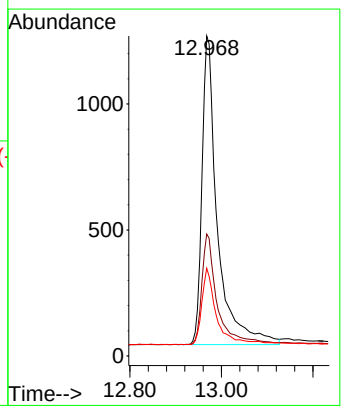
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

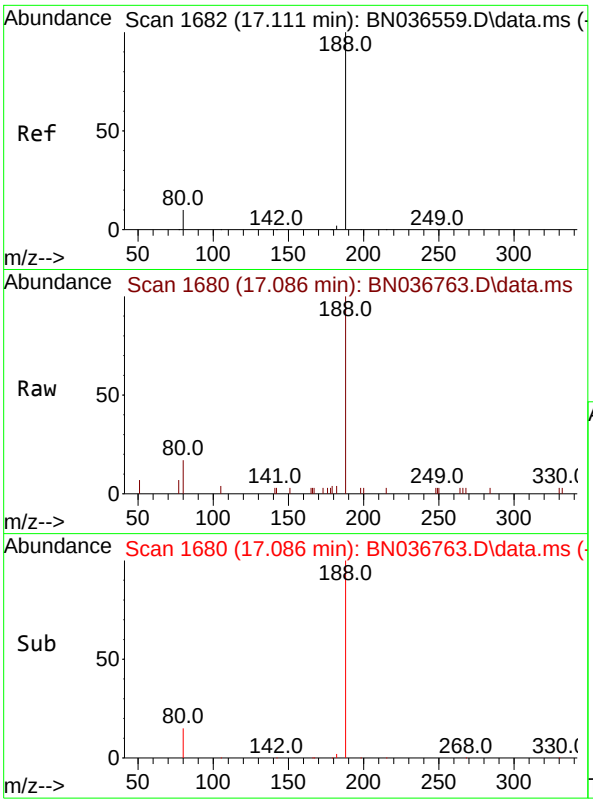


#15
2-Fluorobiphenyl
Concen: 0.341 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:172 Resp: 3677

Ion	Ratio	Lower	Upper
172	100		
171	38.1	29.5	44.3
170	27.4	20.2	30.4





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

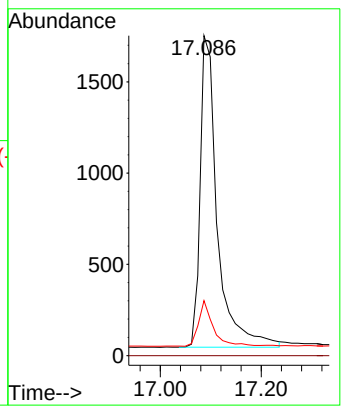
Tgt Ion:188 Resp: 404

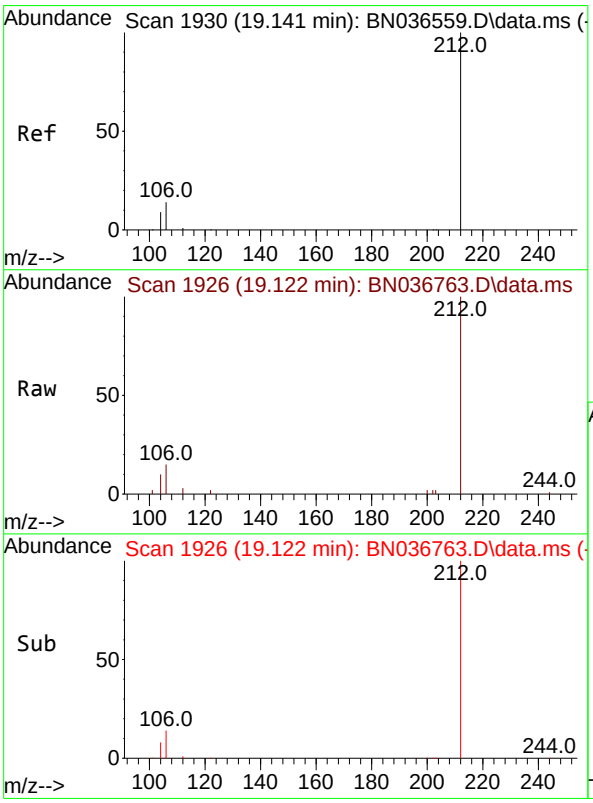
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.2	8.8	13.2#

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

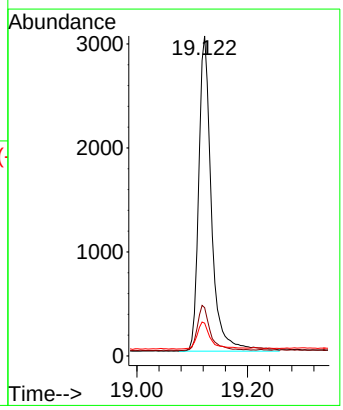


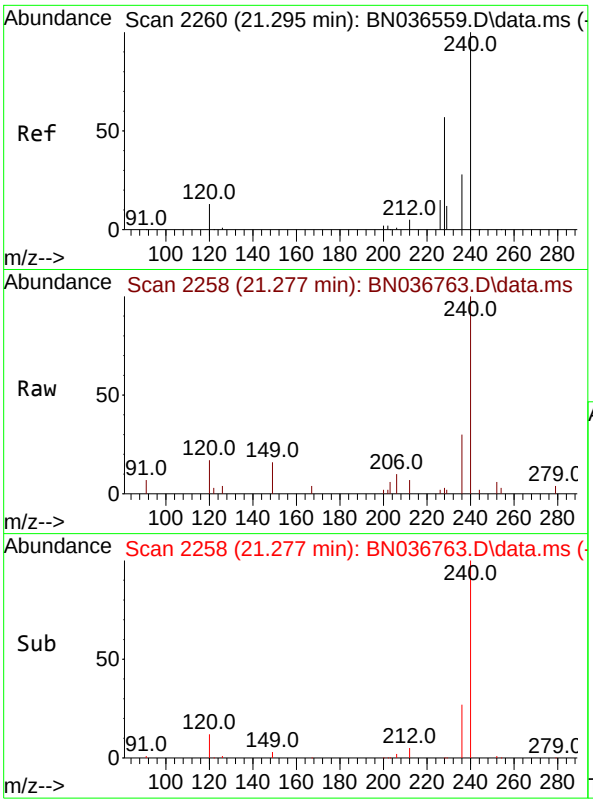


#27
Fluoranthene-d10
Concen: 0.468 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:212 Resp: 4853

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.8	17.6
104	9.0	7.3	10.9

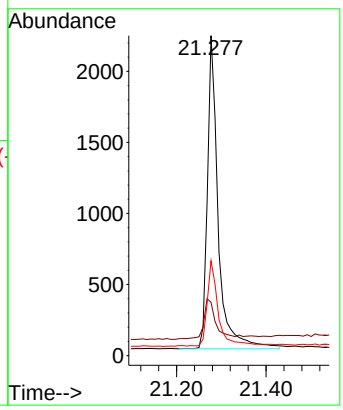




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:240 Resp: 369

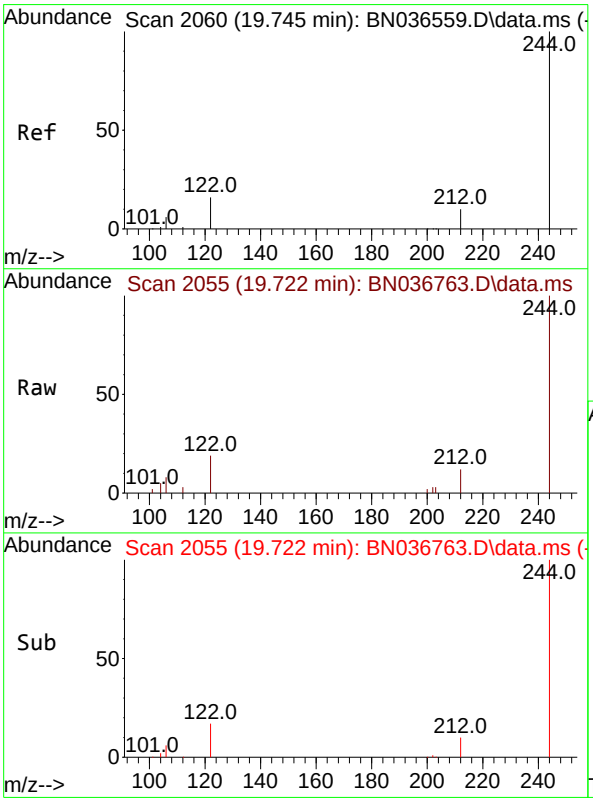
Ion	Ratio	Lower	Upper
240	100		
120	16.6	14.6	22.0
236	29.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations
APPROVED

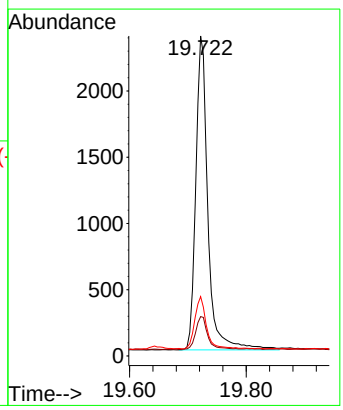
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

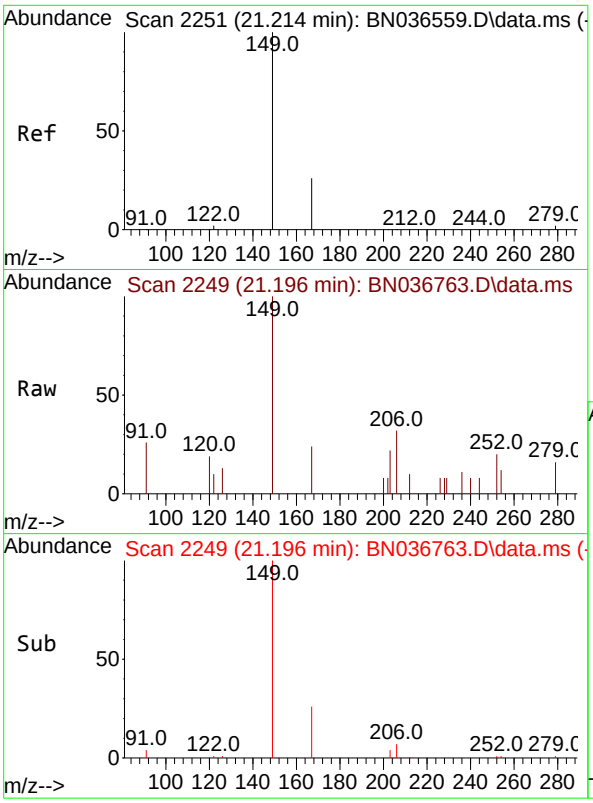


#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:244 Resp: 3401

Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.6	14.4
122	18.6	13.9	20.9





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.039 ng m
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

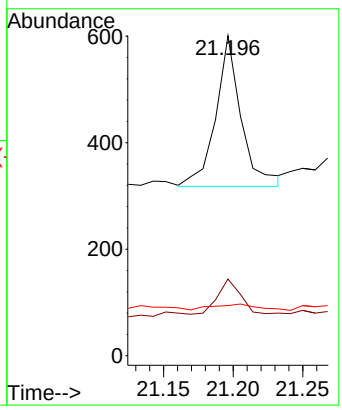
Tgt Ion:149 Resp: 35

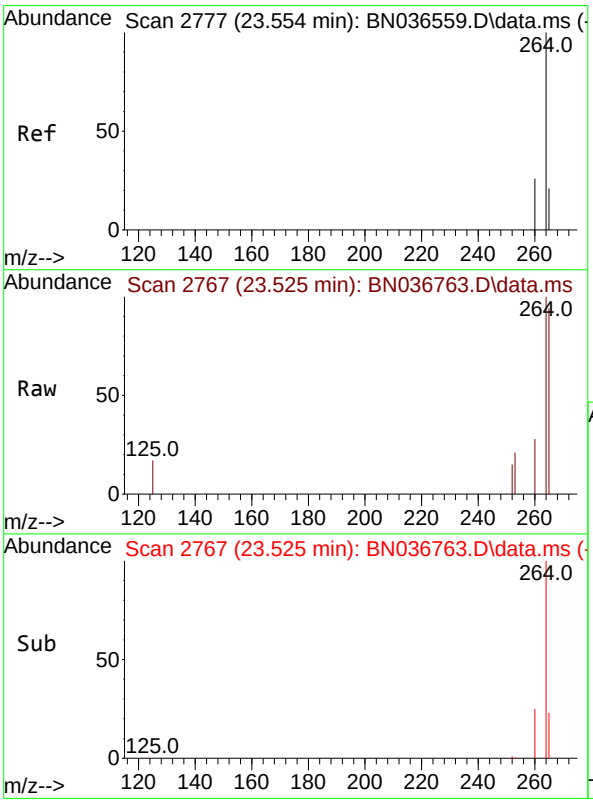
Ion	Ratio	Lower	Upper
149	100		
167	26.8	20.7	31.1
279	7.5	3.6	5.4

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

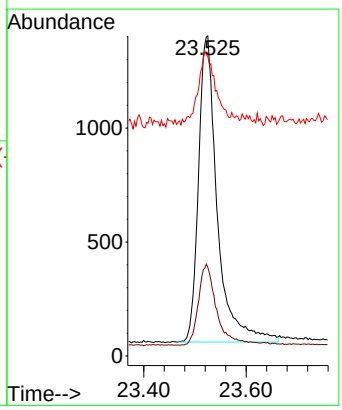




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2767
Delta R.T. -0.029 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:264 Resp: 3430

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	93.7	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RW8-MW01D2-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-26	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036764.D	1	03/21/25 08:40	03/28/25 07:58	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1280	7.703				
1146-65-2	Naphthalene-d8	2830	10.498				
15067-26-2	Acenaphthene-d10	1830	14.345				
1517-22-2	Phenanthrene-d10	4020	17.099				
1719-03-5	Chrysene-d12	3600	21.277				
1520-96-3	Perylene-d12	2550	23.525				

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\BN032725\
Data File : BN036764.D
Acq On : 28 Mar 2025 07:58
Operator : RC/JU
Sample : Q1608-26
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Quant Time: Mar 28 08:25:42 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

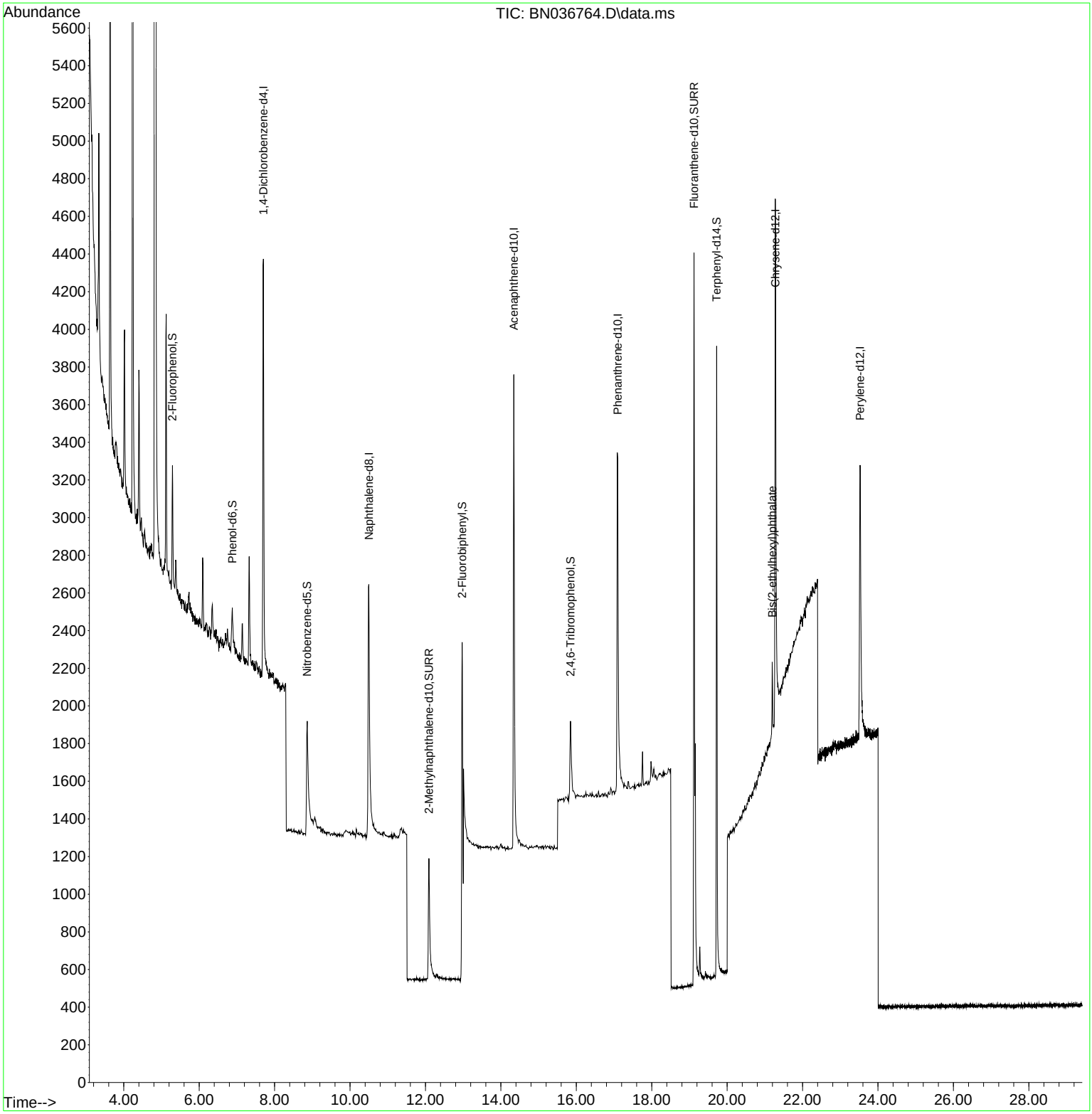
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1275	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	2834	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	1829	0.400	ng	-0.02
19) Phenanthrene-d10	17.099	188	4015	0.400	ng	-0.01
29) Chrysene-d12	21.277	240	3603	0.400	ng	-0.02
35) Perylene-d12	23.525	264	2549	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	495	0.167	ng	-0.02
5) Phenol-d6	6.879	99	292	0.080	ng	-0.02
8) Nitrobenzene-d5	8.865	82	991	0.321	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1495	0.355	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	363	0.437	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	3464	0.326	ng	-0.02
27) Fluoranthene-d10	19.123	212	4863	0.473	ng	-0.02
31) Terphenyl-d14	19.722	244	3565	0.413	ng	-0.02
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.196	149	456	0.051	ng	# 96

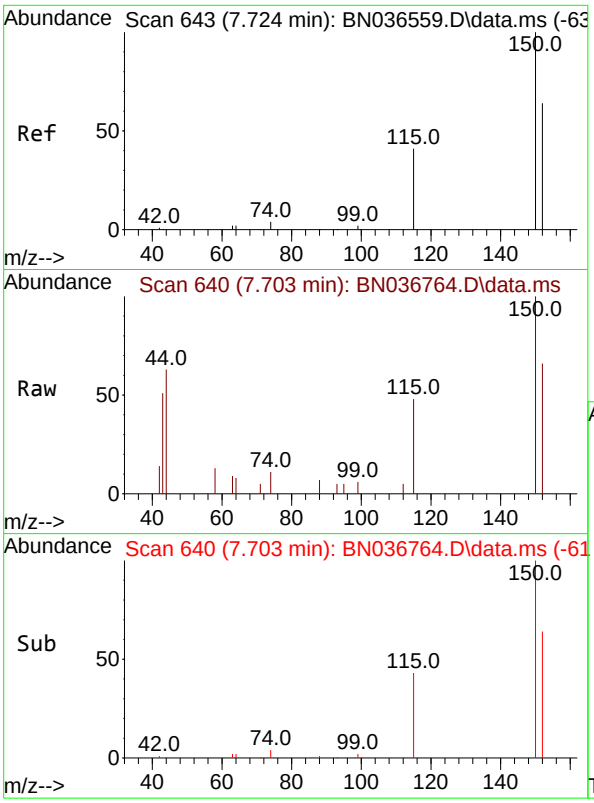
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036764.D
Acq On : 28 Mar 2025 07:58
Operator : RC/JU
Sample : Q1608-26
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Quant Time: Mar 28 08:25:42 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



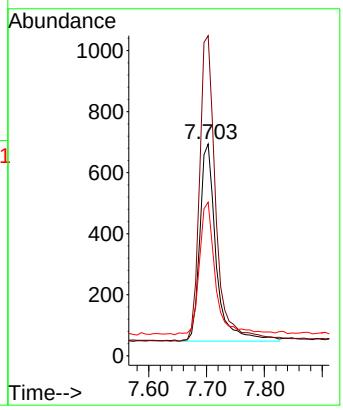


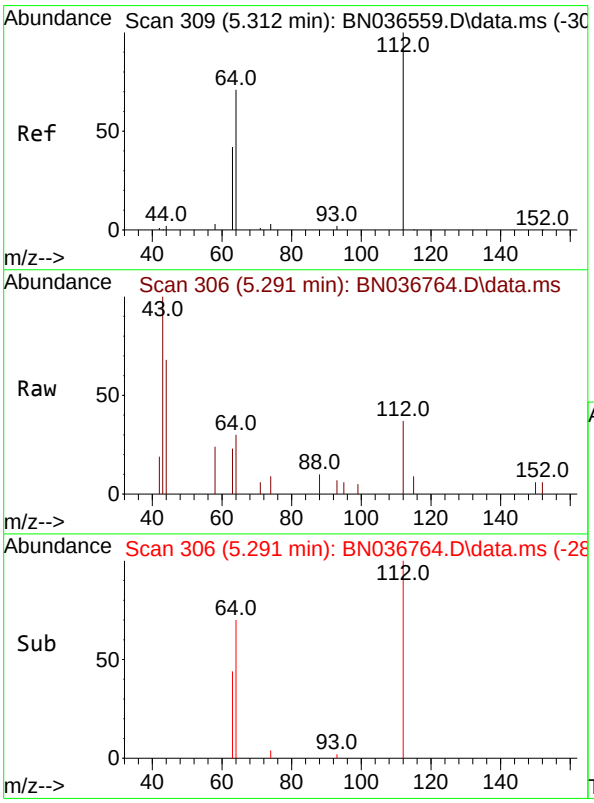
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Tgt Ion:152 Resp: 1275

Ion	Ratio	Lower	Upper
152	100		
150	151.2	123.7	185.5
115	72.5	54.3	81.5

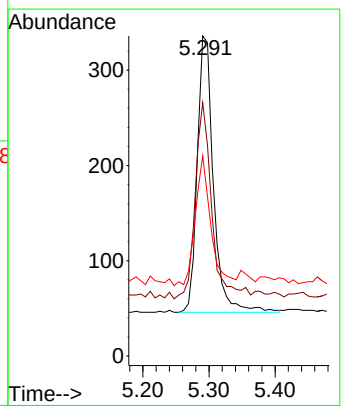


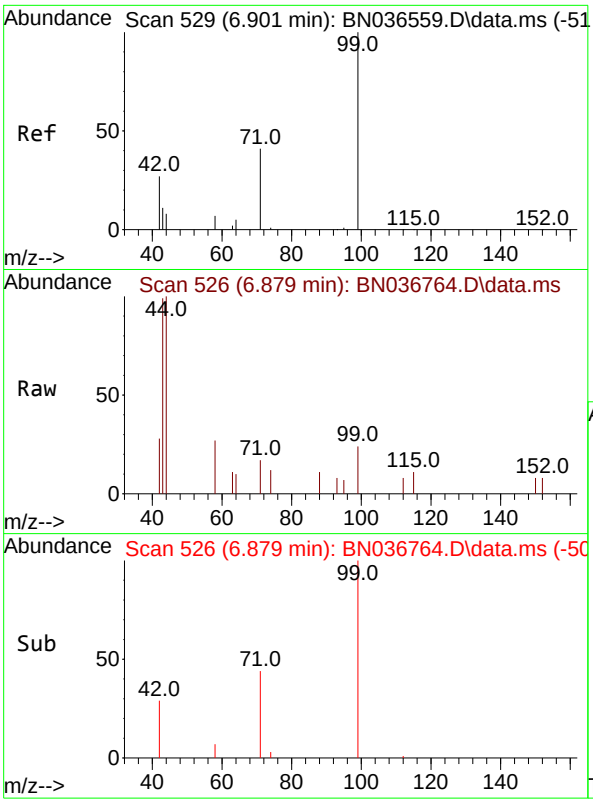


#4
2-Fluorophenol
Concen: 0.167 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Tgt Ion:112 Resp: 495

Ion	Ratio	Lower	Upper
112	100		
64	75.2	53.1	79.7
63	44.8	31.8	47.8



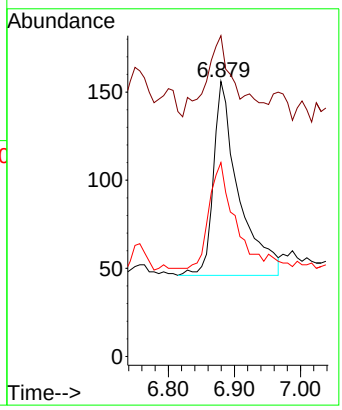


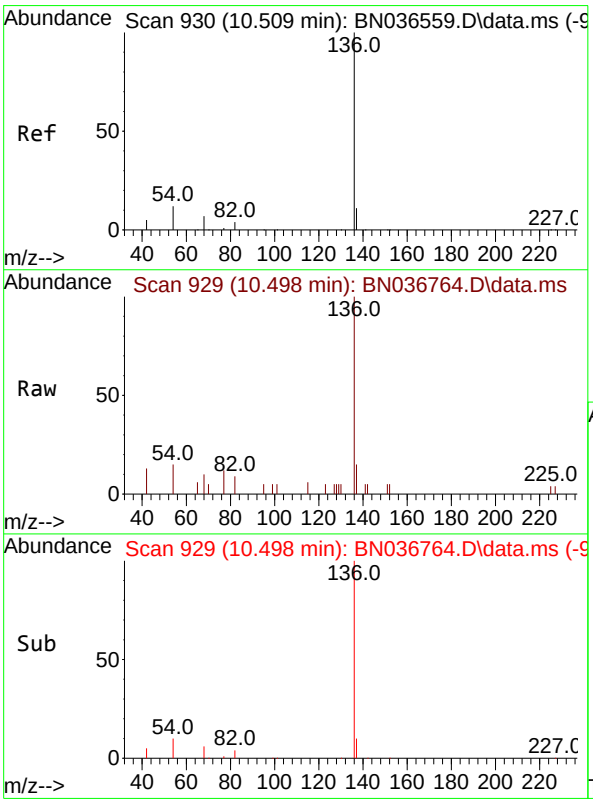
#5
Phenol-d6
Concen: 0.080 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Tgt Ion: 99 Resp: 292

Ion	Ratio	Lower	Upper
99	100		
42	47.3	26.5	39.7#
71	53.4	34.1	51.1#

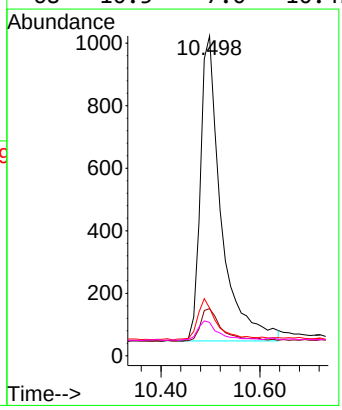


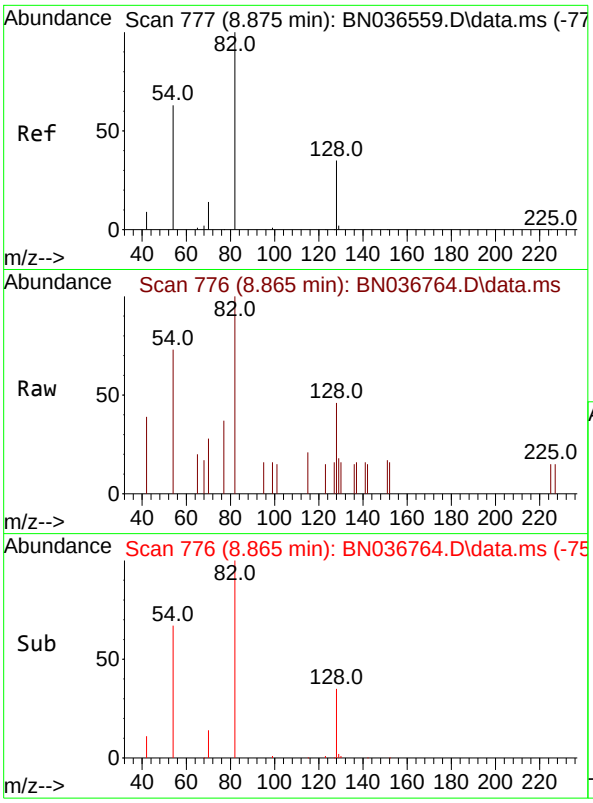


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Tgt Ion:136 Resp: 2834

Ion	Ratio	Lower	Upper
136	100		
137	14.8	10.3	15.5
54	15.0	11.5	17.3
68	10.5	7.0	10.4#



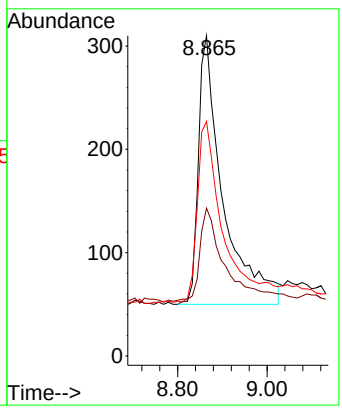


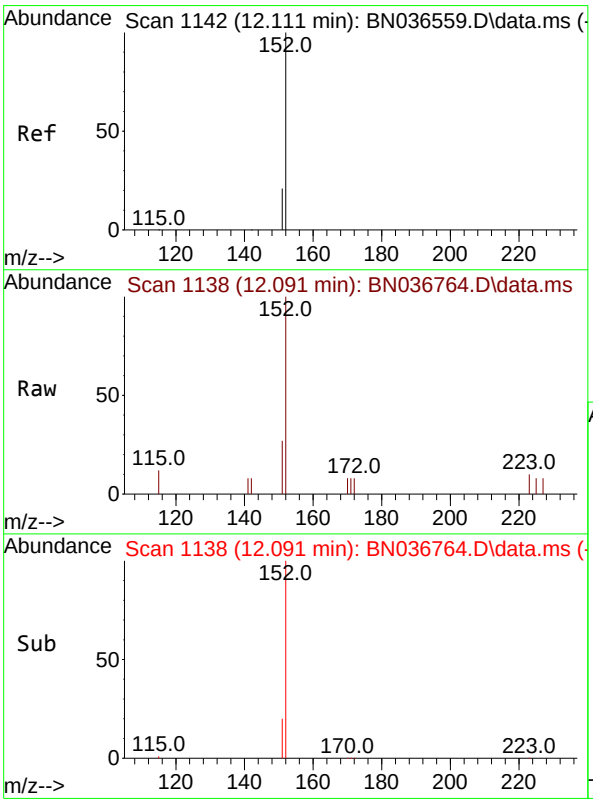
#8
Nitrobenzene-d5
Concen: 0.321 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Tgt Ion: 82 Resp: 991

Ion	Ratio	Lower	Upper
82	100		
128	46.1	30.6	45.8#
54	73.2	52.2	78.4

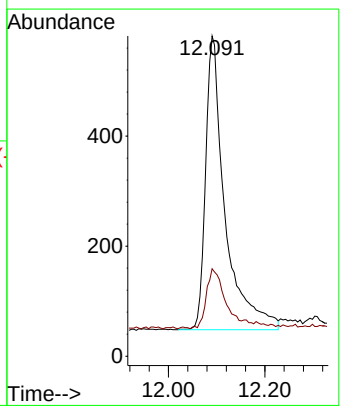


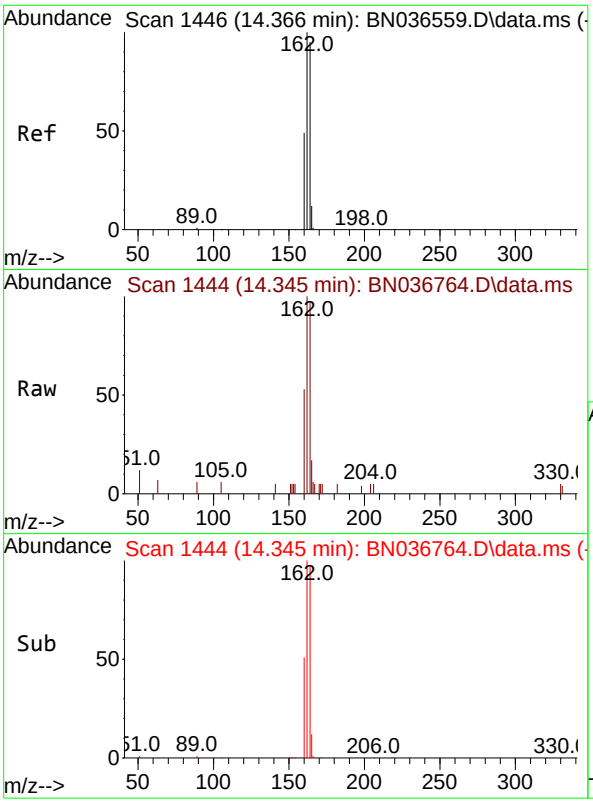


#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.020 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Tgt Ion:152 Resp: 1495

Ion	Ratio	Lower	Upper
152	100		
151	19.3	17.0	25.6



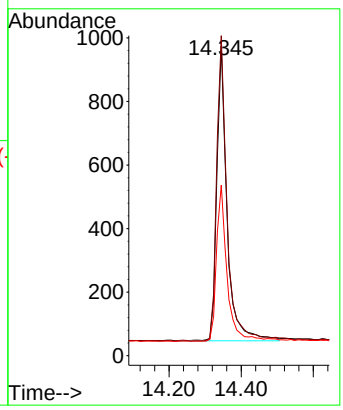


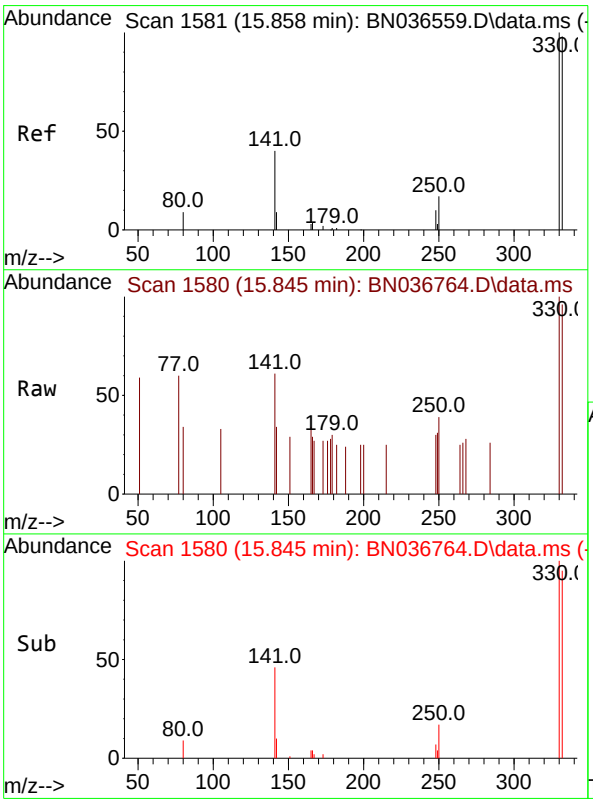
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Tgt Ion:164 Resp: 1829

Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	55.1	42.2	63.2

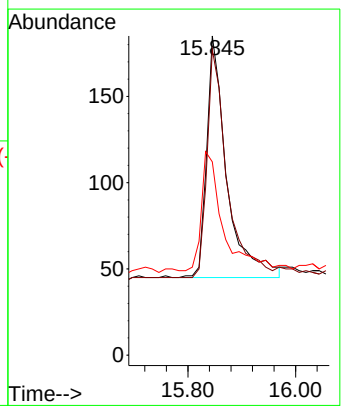


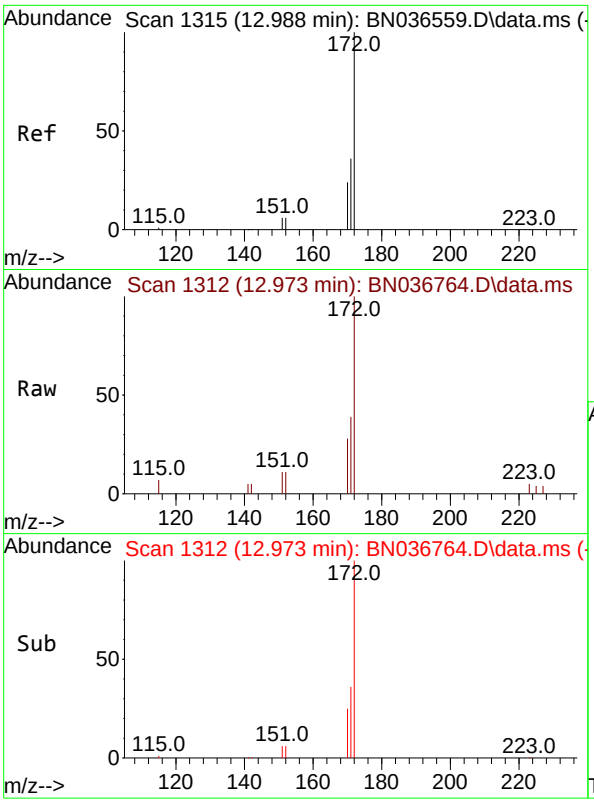


#14
2,4,6-Tribromophenol
Concen: 0.437 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Tgt Ion:330 Resp: 363

Ion	Ratio	Lower	Upper
330	100		
332	94.5	75.2	112.8
141	52.6	43.4	65.2



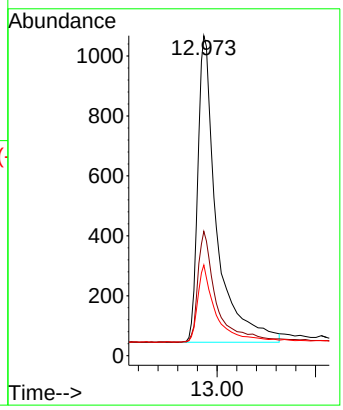


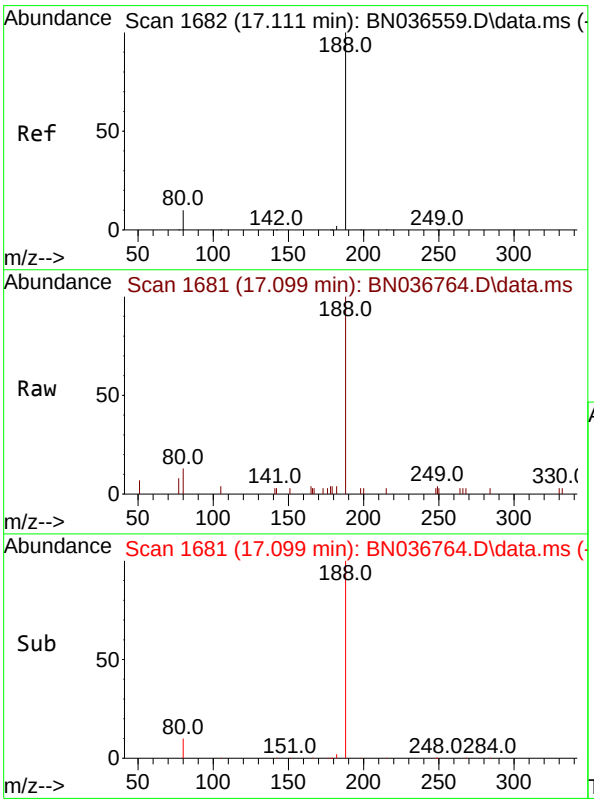
#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 12.973 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Tgt Ion:172 Resp: 3464

Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.4	20.2	30.4

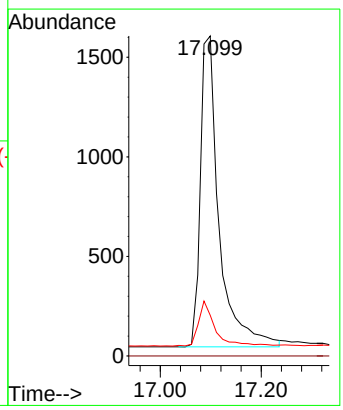


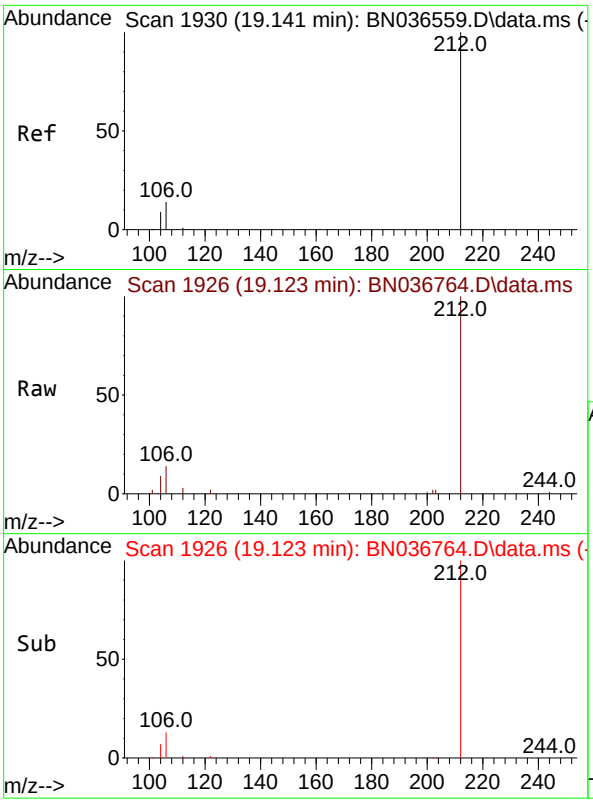


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Tgt Ion:188 Resp: 4015

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	8.8	13.2



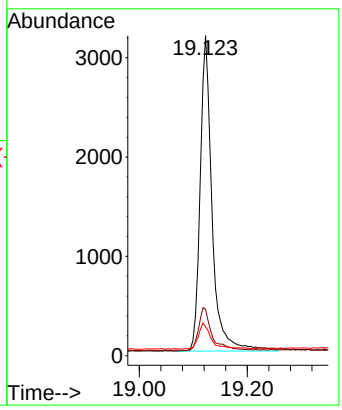


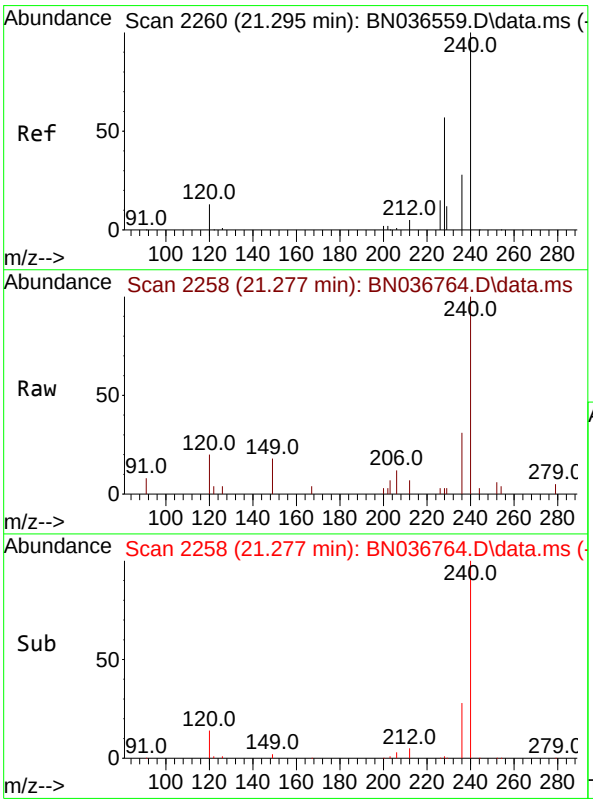
#27
Fluoranthene-d10
Concen: 0.473 ng
RT: 19.123 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Tgt Ion:212 Resp: 4863

Ion	Ratio	Lower	Upper
212	100		
106	15.1	11.8	17.6
104	8.8	7.3	10.9

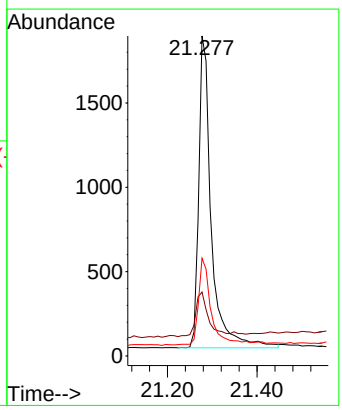


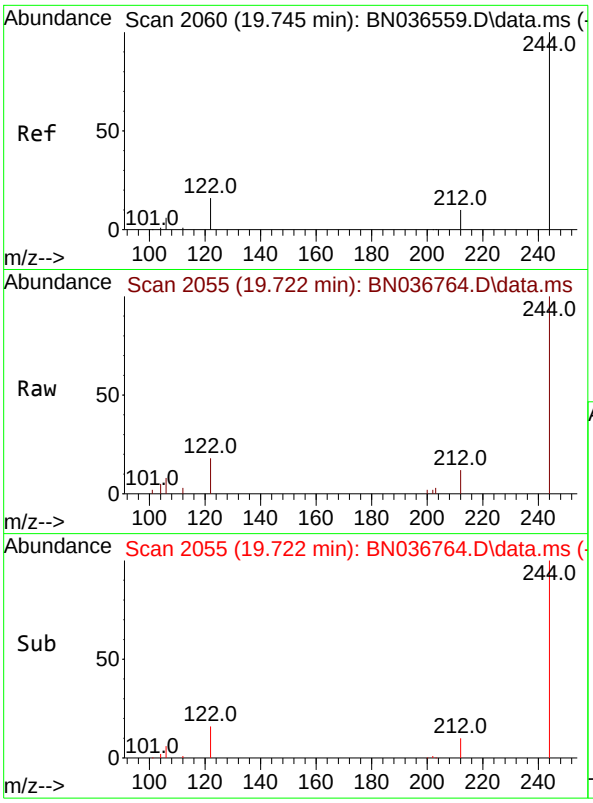


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Tgt Ion:240 Resp: 3603

Ion	Ratio	Lower	Upper
240	100		
120	19.9	14.6	22.0
236	30.5	24.1	36.1



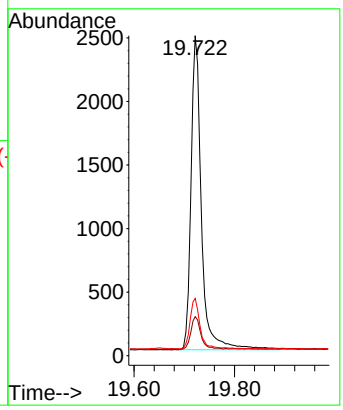


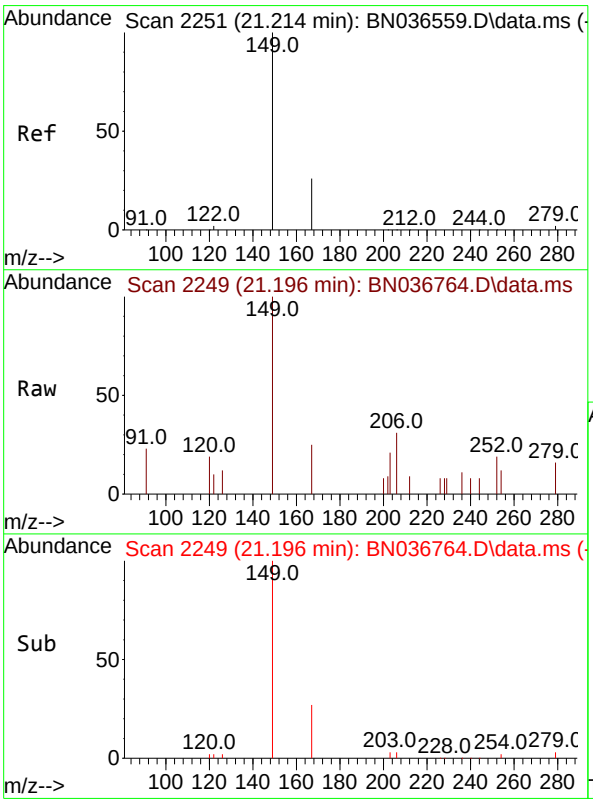
#31
Terphenyl-d14
Concen: 0.413 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Tgt Ion:244 Resp: 3565

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.9	13.9	20.9

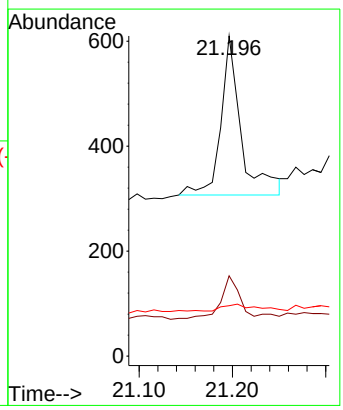


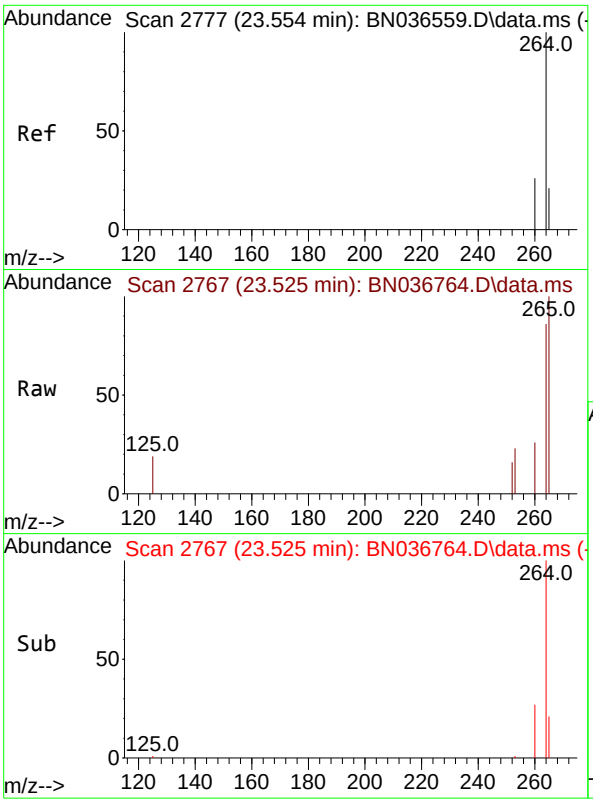


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.051 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Tgt Ion:149 Resp: 456

Ion	Ratio	Lower	Upper
149	100		
167	24.3	20.7	31.1
279	7.0	3.6	5.4#



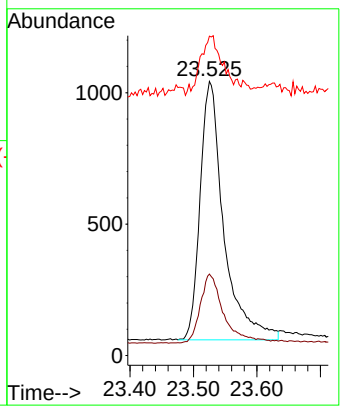


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036764.D
Acq: 28 Mar 2025 07:58

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D2-20250319

Tgt Ion:264 Resp: 2549

Ion	Ratio	Lower	Upper
264	100		
260	29.7	22.6	33.8
265	116.5	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RW8-MW01D3-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-27	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036781.D	1	03/21/25 08:40	03/28/25 20:02	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1630	7.696				
1146-65-2	Naphthalene-d8	3710	10.487				
15067-26-2	Acenaphthene-d10	2300	14.334				
1517-22-2	Phenanthrene-d10	5150	17.086				
1719-03-5	Chrysene-d12	4270	21.277				
1520-96-3	Perylene-d12	3690	23.519				

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\BN032825\
Data File : BN036781.D
Acq On : 28 Mar 2025 20:02
Operator : RC/JU
Sample : Q1608-27
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Quant Time: Mar 28 22:52:44 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

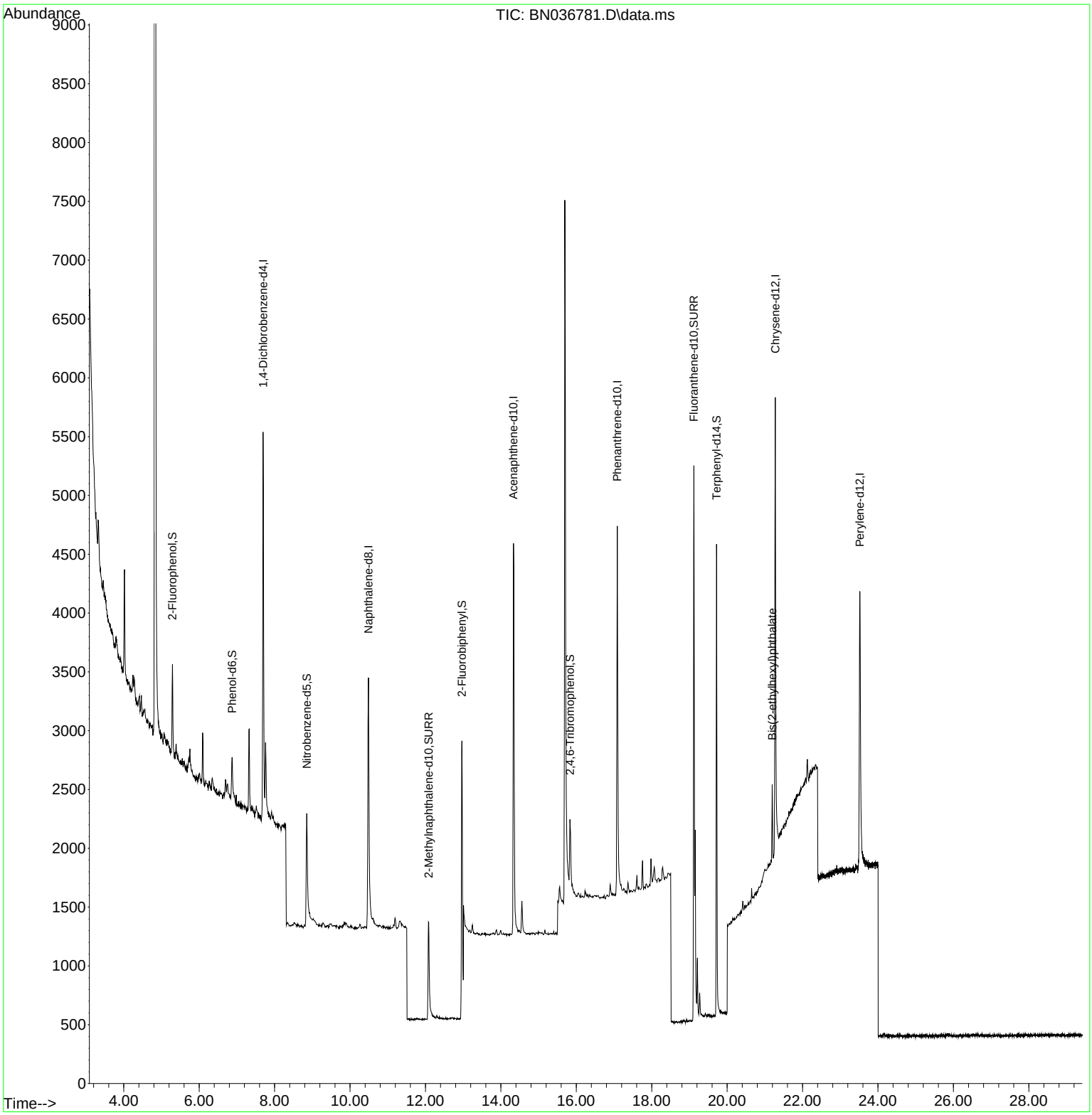
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1632	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3714	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2302	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5150	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4271	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3690	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	527	0.139	ng	-0.02
5) Phenol-d6	6.872	99	366	0.078	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1178	0.292	ng	-0.02
11) 2-Methylnaphthalene-d10	12.086	152	1696	0.307	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	436	0.417	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	3874	0.289	ng	-0.02
27) Fluoranthene-d10	19.118	212	5801	0.439	ng	-0.02
31) Terphenyl-d14	19.717	244	4087	0.399	ng	-0.03
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.196	149	581	0.055	ng	# 94

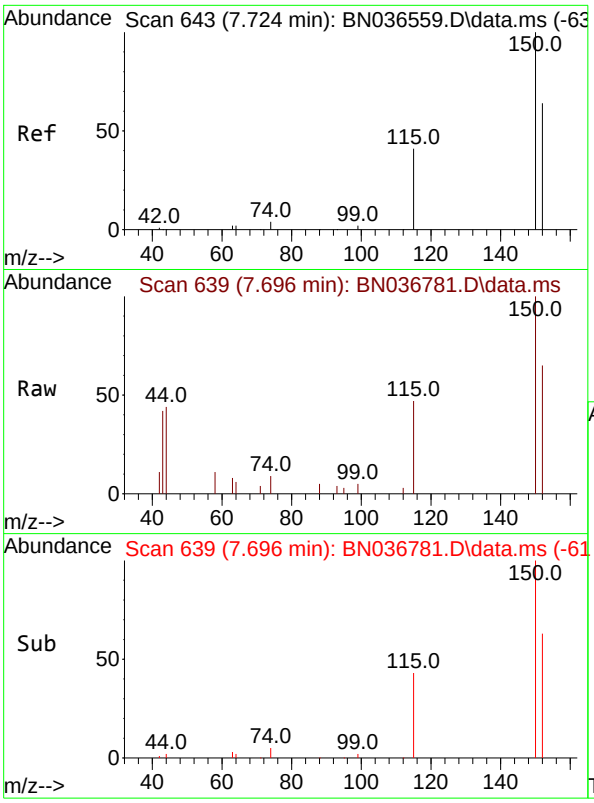
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036781.D
Acq On : 28 Mar 2025 20:02
Operator : RC/JU
Sample : Q1608-27
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Quant Time: Mar 28 22:52:44 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



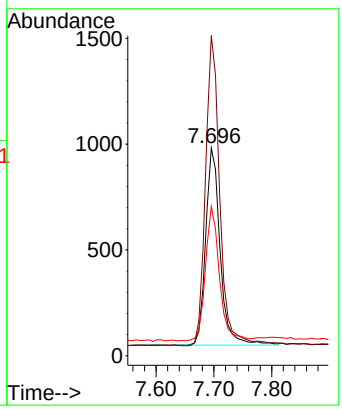


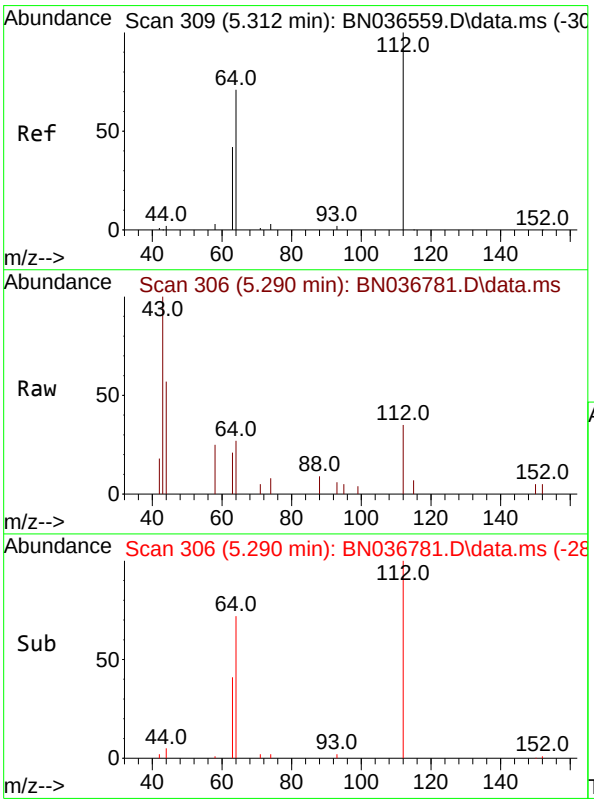
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Tgt Ion:152 Resp: 1632

Ion	Ratio	Lower	Upper
152	100		
150	154.2	123.7	185.5
115	71.9	54.3	81.5

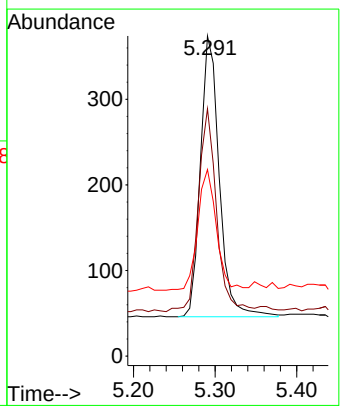


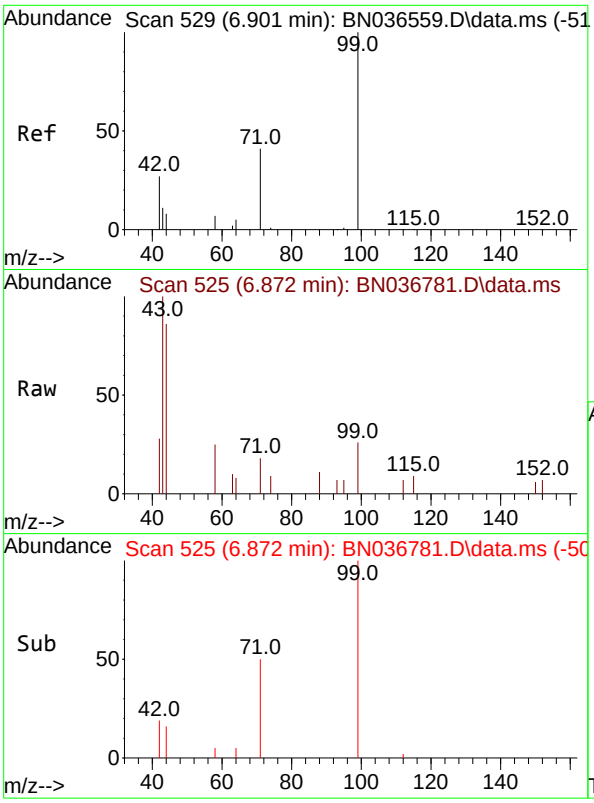


#4
2-Fluorophenol
Concen: 0.139 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Tgt Ion:112 Resp: 527

Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.1	79.7
63	42.1	31.8	47.8



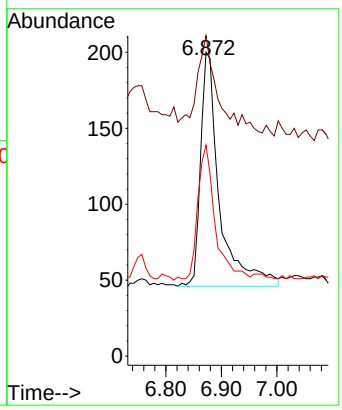


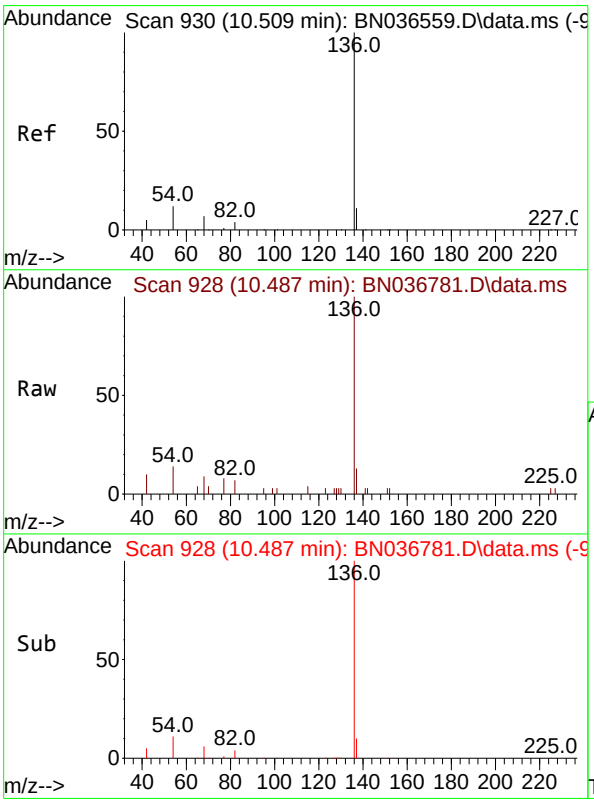
#5
Phenol-d6
Concen: 0.078 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Tgt Ion: 99 Resp: 366

Ion	Ratio	Lower	Upper
99	100		
42	33.6	26.5	39.7
71	53.3	34.1	51.1#

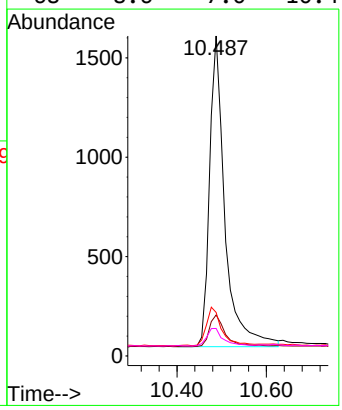


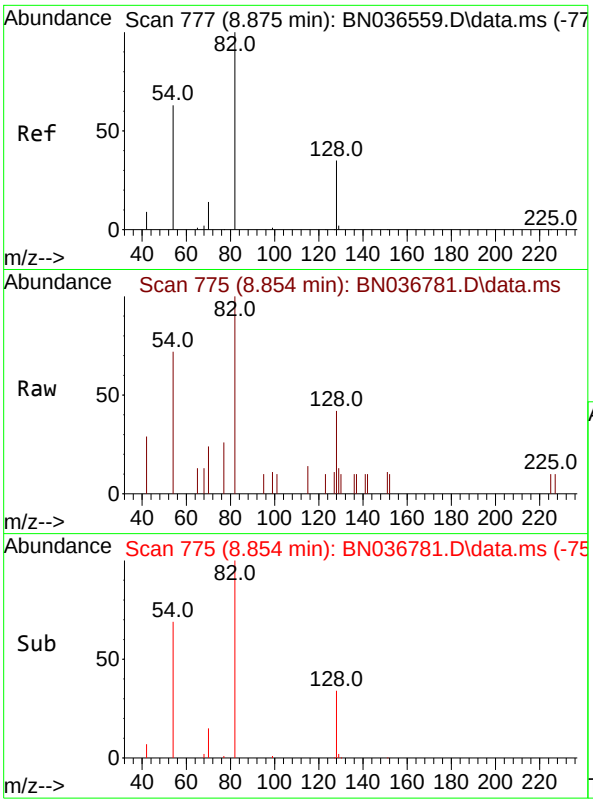


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Tgt Ion:136 Resp: 3714

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	13.6	11.5	17.3
68	8.6	7.0	10.4



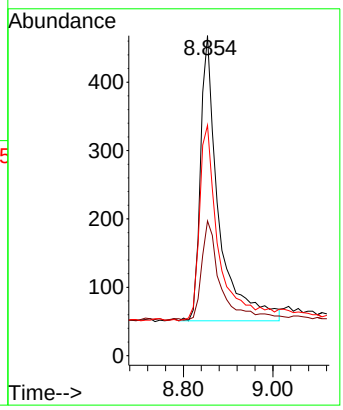


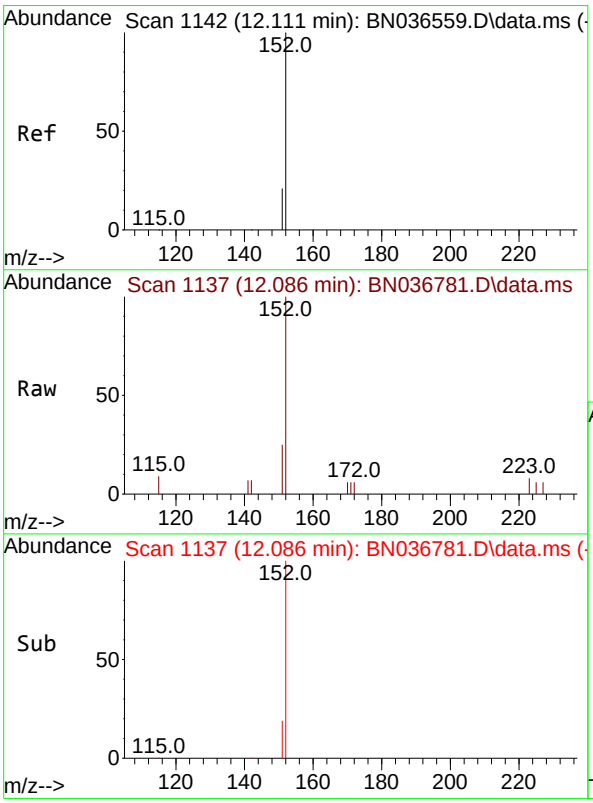
#8
Nitrobenzene-d5
Concen: 0.292 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Tgt Ion: 82 Resp: 1178

Ion	Ratio	Lower	Upper
82	100		
128	42.1	30.6	45.8
54	72.0	52.2	78.4

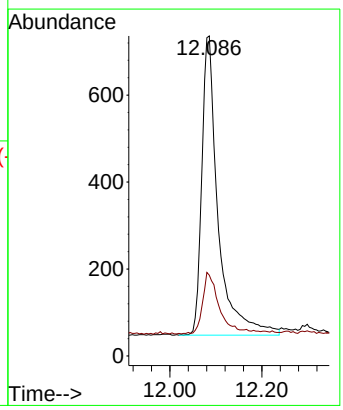


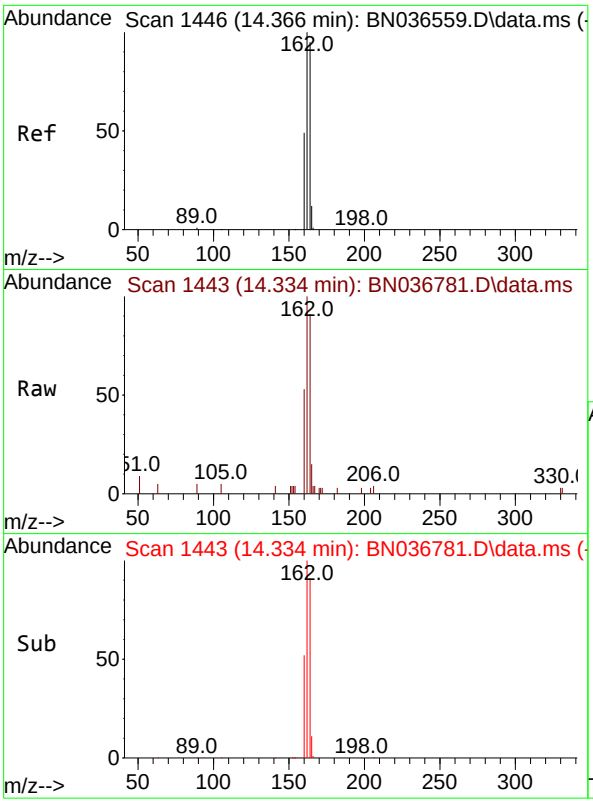


#11
2-Methylnaphthalene-d10
Concen: 0.307 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.025 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Tgt Ion:152 Resp: 1696

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6



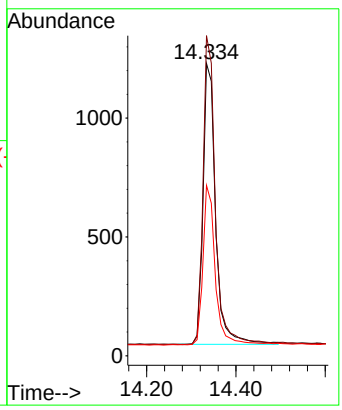


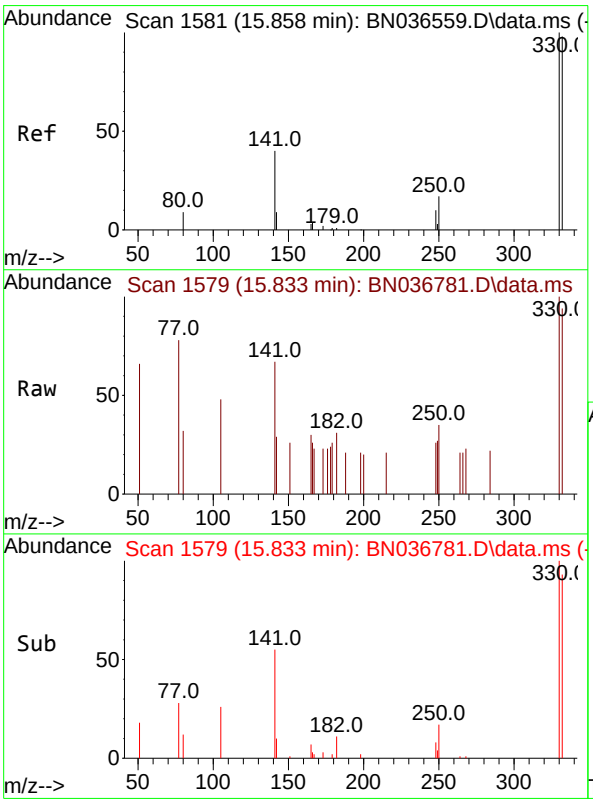
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Tgt Ion:164 Resp: 2302

Ion	Ratio	Lower	Upper
164	100		
162	109.5	84.2	126.2
160	58.3	42.2	63.2

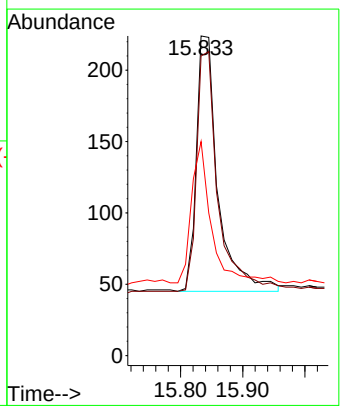


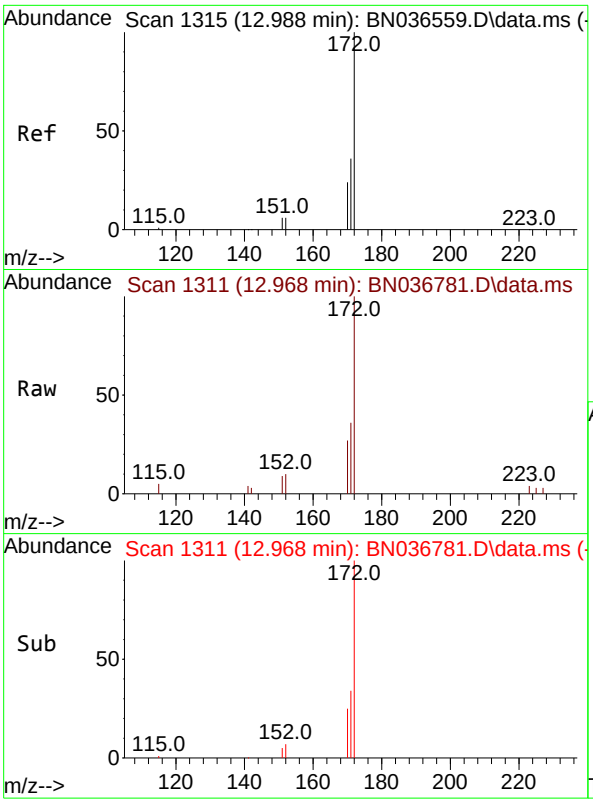


#14
2,4,6-Tribromophenol
Concen: 0.417 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Tgt Ion:330 Resp: 436

Ion	Ratio	Lower	Upper
330	100		
332	93.3	75.2	112.8
141	50.0	43.4	65.2



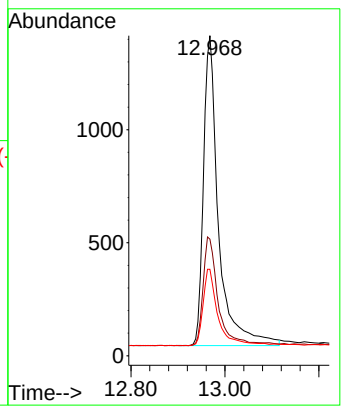


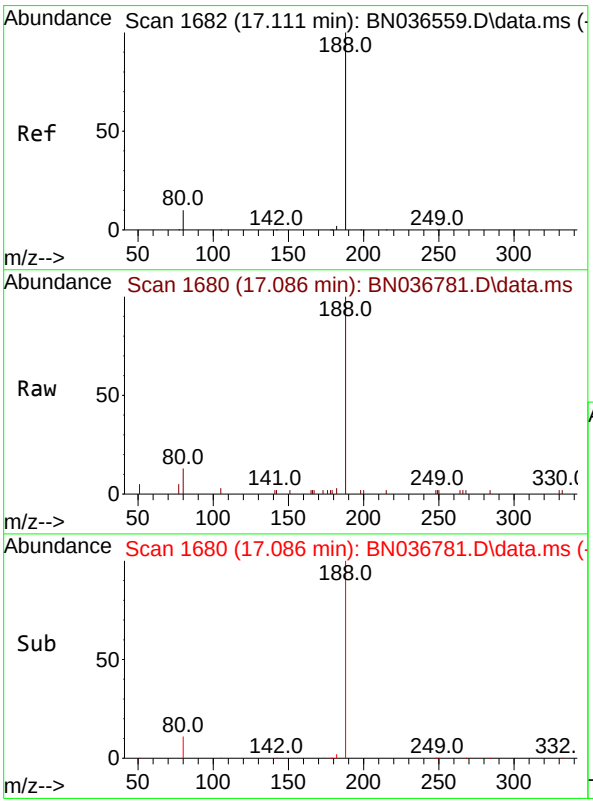
#15
2-Fluorobiphenyl
Concen: 0.289 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Tgt Ion:172 Resp: 3874

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.5	44.3
170	27.0	20.2	30.4

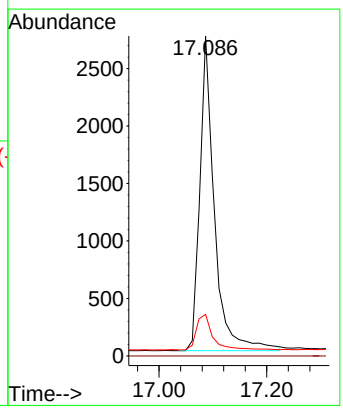


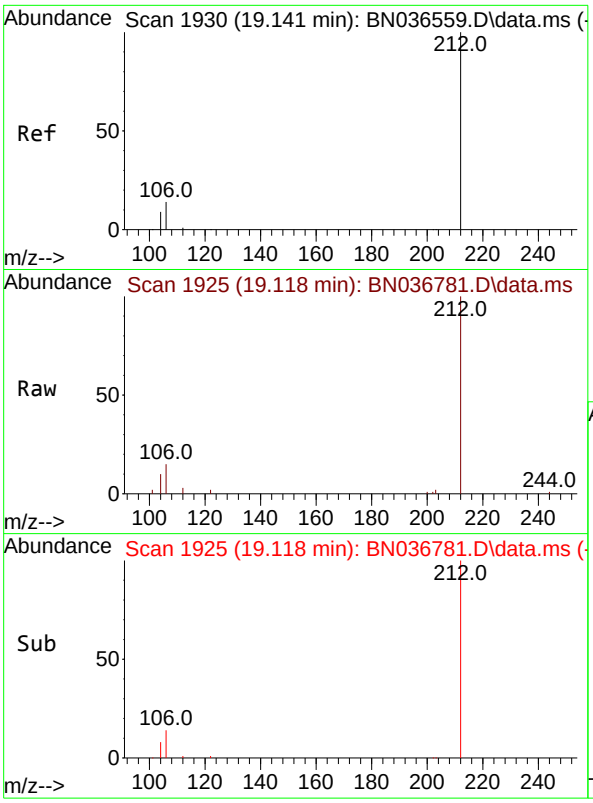


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Tgt Ion:188 Resp: 5150

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.0	8.8	13.2



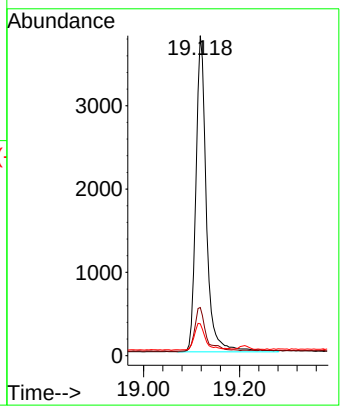


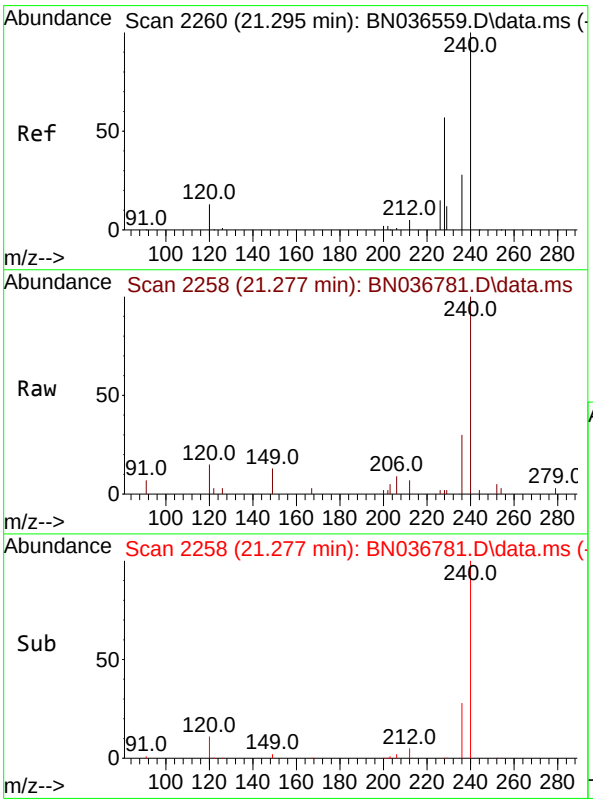
#27
Fluoranthene-d10
Concen: 0.439 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Tgt Ion:212 Resp: 5801

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	8.7	7.3	10.9

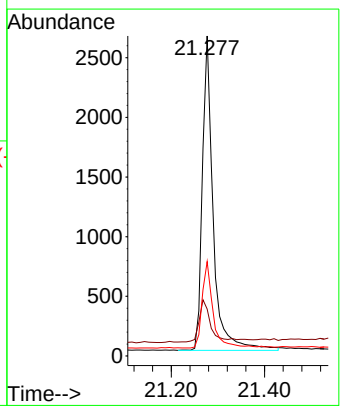


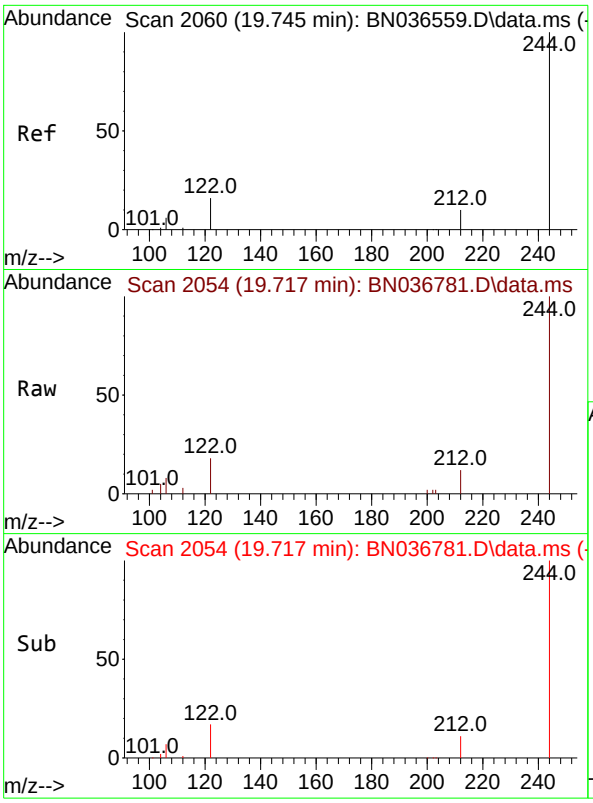


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Tgt Ion:240 Resp: 4271

Ion	Ratio	Lower	Upper
240	100		
120	14.7	14.6	22.0
236	29.5	24.1	36.1



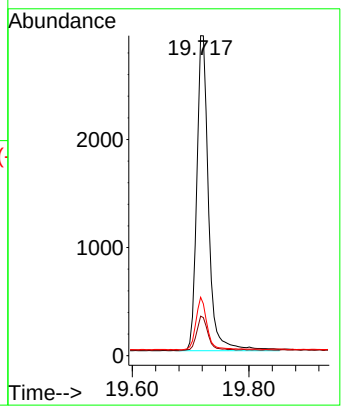


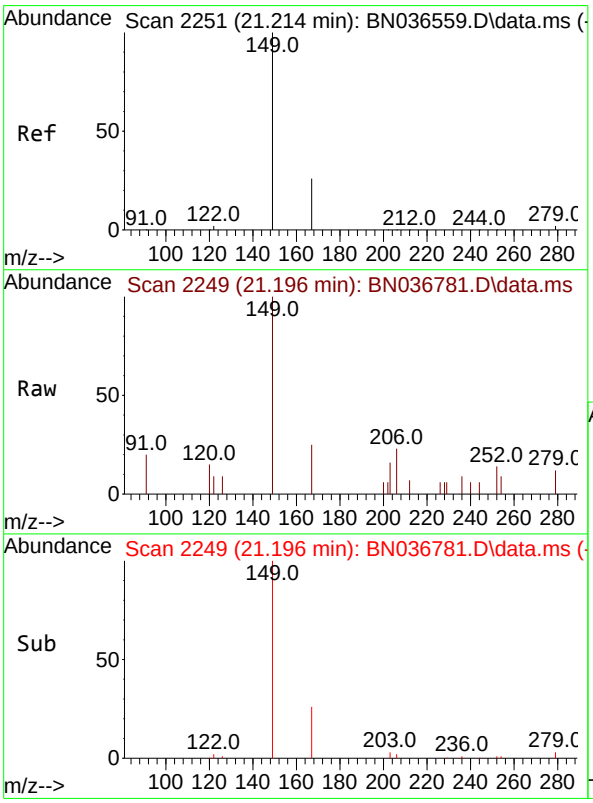
#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.717 min Scan# 2
Delta R.T. -0.028 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Tgt Ion:244 Resp: 4087

Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.6	14.4
122	18.2	13.9	20.9

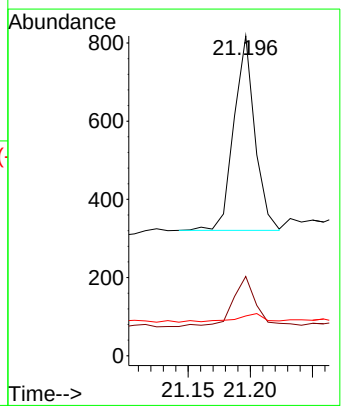


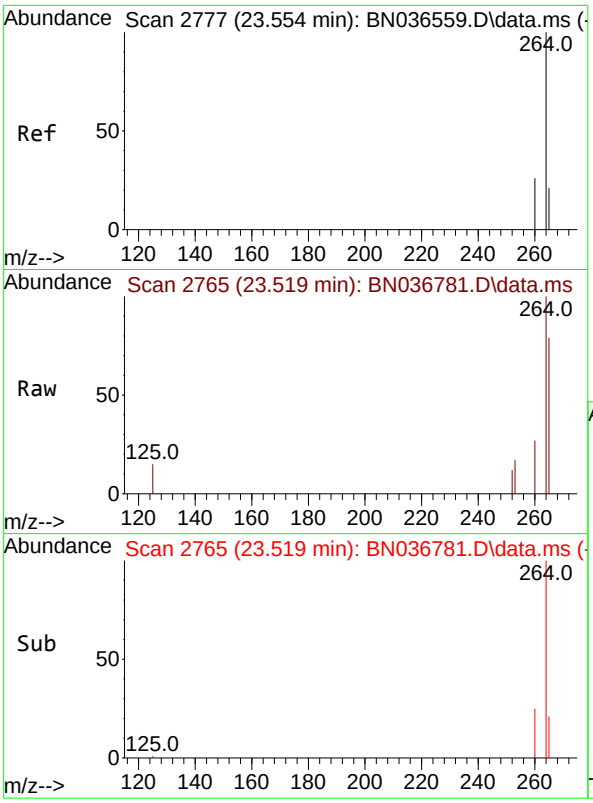


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.055 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Tgt Ion:149 Resp: 581

Ion	Ratio	Lower	Upper
149	100		
167	29.1	20.7	31.1
279	6.0	3.6	5.4#



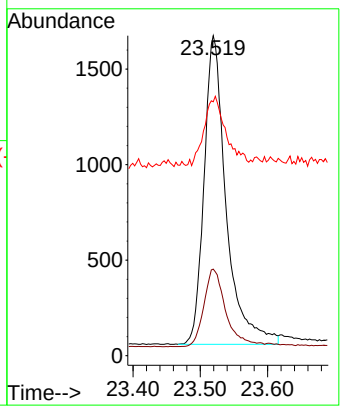


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036781.D
Acq: 28 Mar 2025 20:02

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D3-20250319

Tgt Ion:264 Resp: 3690

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.6	33.8
265	79.3	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:	AECOM Technical Services, Inc.	Date Collected:	03/19/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	DUP09-20250319	SDG No.:	Q1608
Lab Sample ID:	Q1608-28	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036782.D	1	03/21/25 08:40	03/28/25 20:38	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.72		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1400	7.703				
1146-65-2	Naphthalene-d8	3140	10.487				
15067-26-2	Acenaphthene-d10	2060	14.345				
1517-22-2	Phenanthrene-d10	4550	17.086				
1719-03-5	Chrysene-d12	3750	21.277				
1520-96-3	Perylene-d12	3300	23.519				

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\BN032825\
Data File : BN036782.D
Acq On : 28 Mar 2025 20:38
Operator : RC/JU
Sample : Q1608-28
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Quant Time: Mar 28 22:52:56 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	7.703	152	1404	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3144	0.400	ng	#-0.02
13) Acenaphthene-d10	14.345	164	2055	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4548	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3753	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3299	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	540	0.165	ng	-0.02
5) Phenol-d6	6.879	99	352	0.087	ng	-0.02
8) Nitrobenzene-d5	8.865	82	999	0.292	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1536	0.328	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	394	0.423	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	3596	0.301	ng	-0.02
27) Fluoranthene-d10	19.118	212	5312	0.456	ng	-0.02
31) Terphenyl-d14	19.722	244	3705	0.412	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	1116	0.717	ng	# 73
34) Bis(2-ethylhexyl)phtha...	21.196	149	375m	0.040	ng	

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

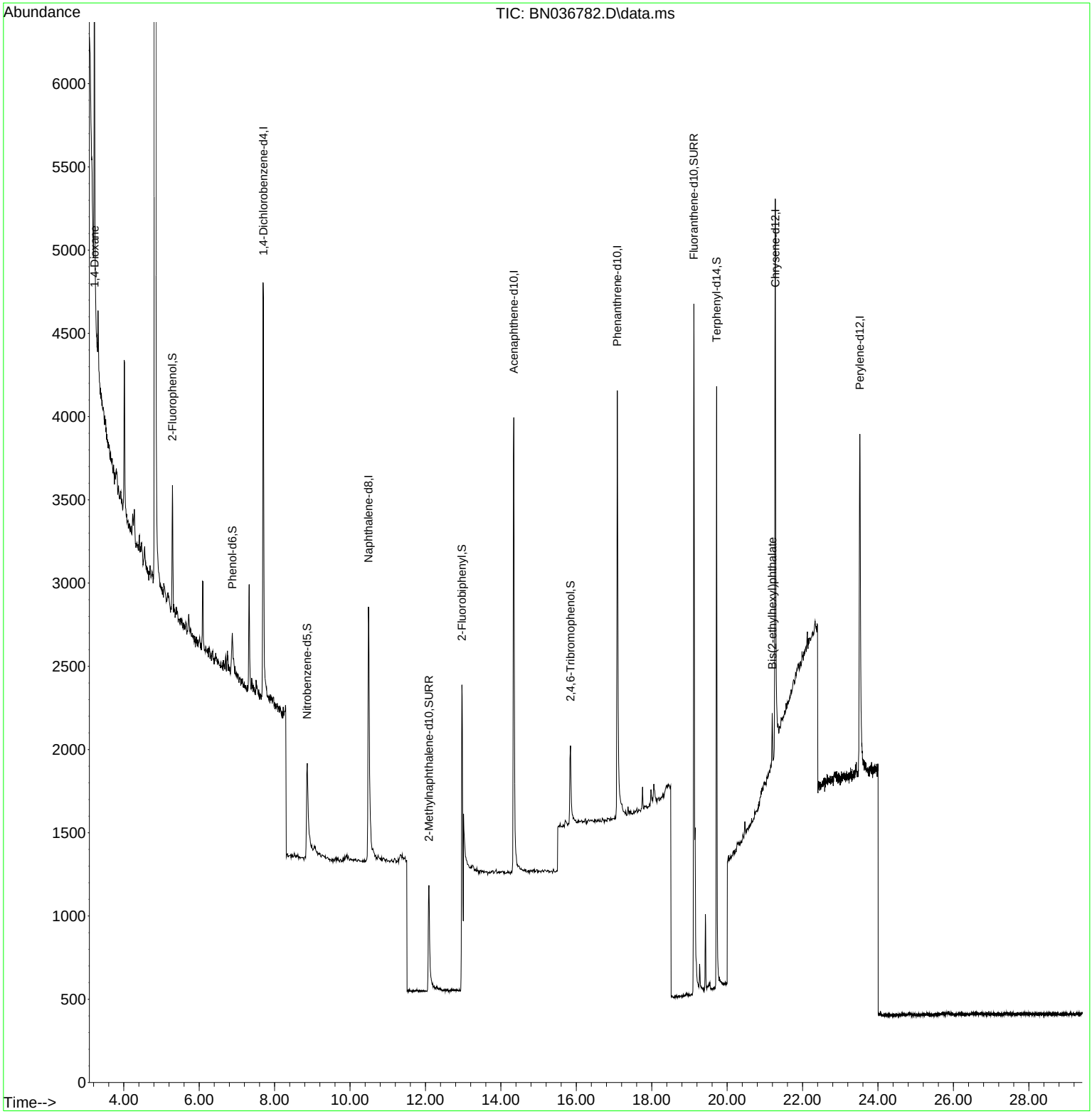
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036782.D
Acq On : 28 Mar 2025 20:38
Operator : RC/JU
Sample : Q1608-28
Misc :
ALS Vial : 11 Sample Multiplier: 1

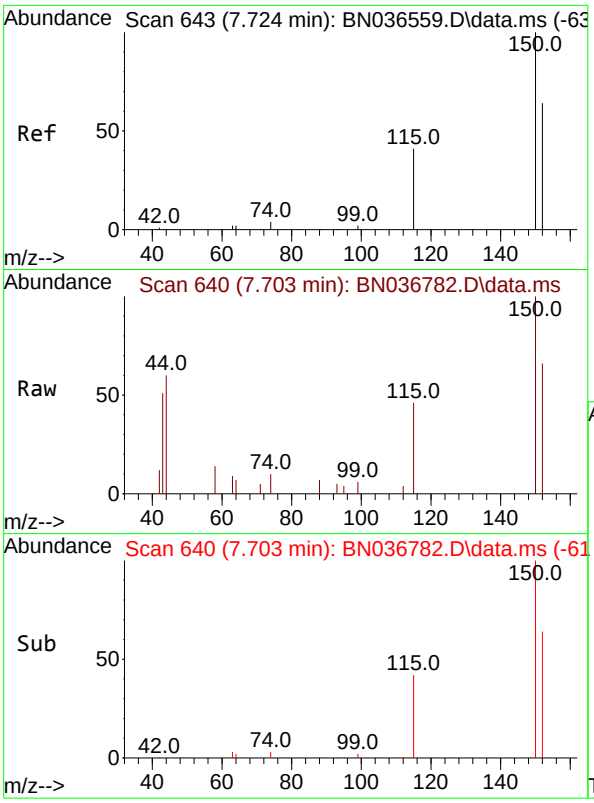
Quant Time: Mar 28 22:52:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

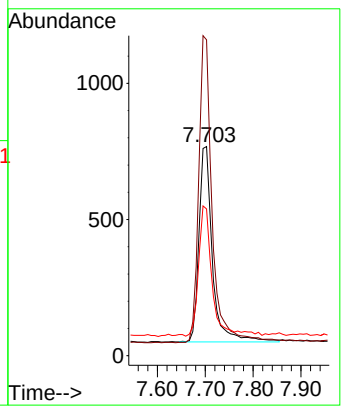




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:152 Resp: 140

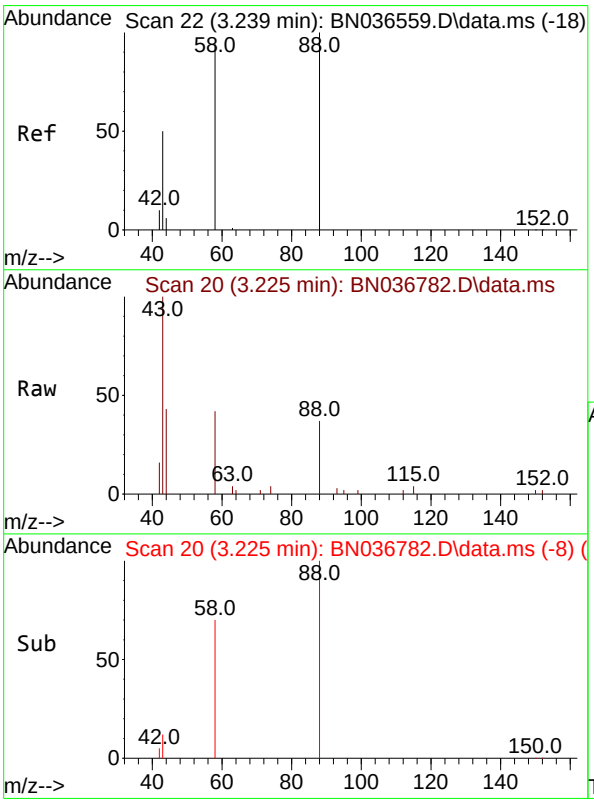
Ion	Ratio	Lower	Upper
152	100		
150	151.0	123.7	185.5
115	70.2	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations
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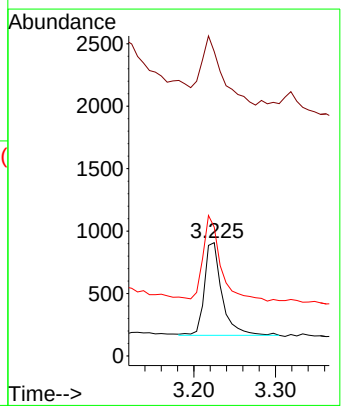
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

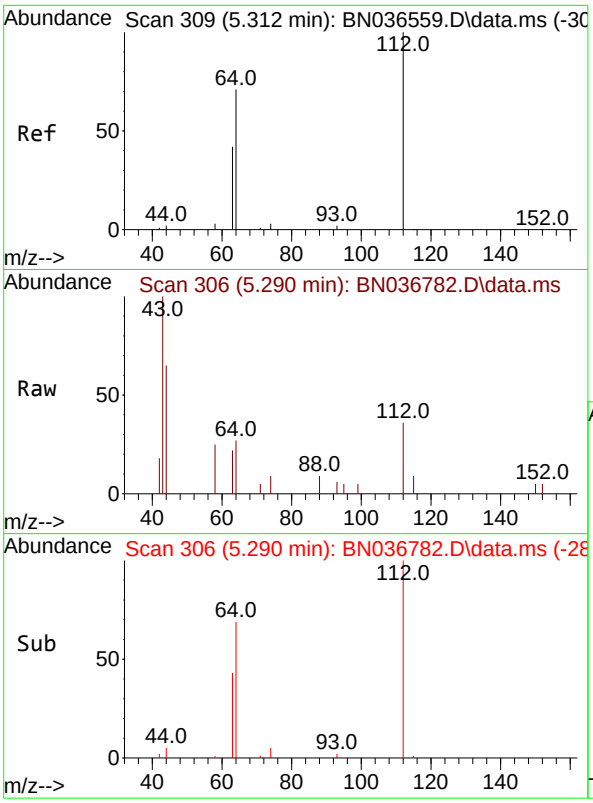


#2
1,4-Dioxane
Concen: 0.717 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion: 88 Resp: 1116

Ion	Ratio	Lower	Upper
88	100		
43	88.2	37.8	56.8#
58	91.2	67.4	101.2





#4
2-Fluorophenol
Concen: 0.165 ng
RT: 5.290 min Scan# 3(
Delta R.T. -0.022 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

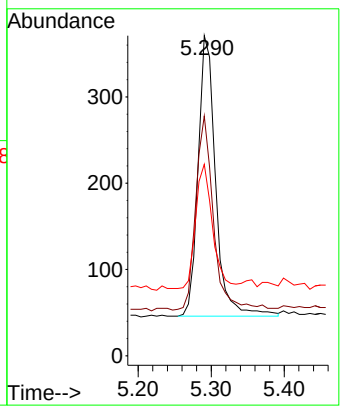
Tgt Ion:112 Resp: 54(

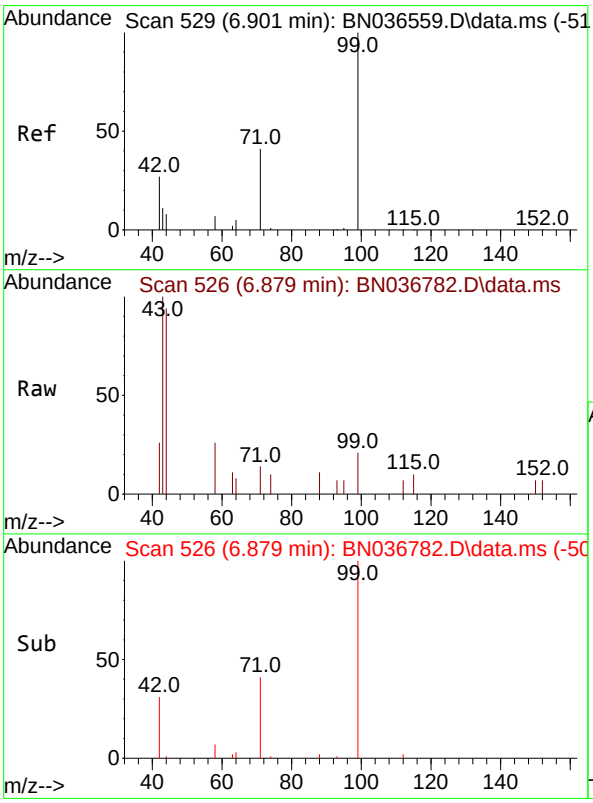
Ion	Ratio	Lower	Upper
112	100		
64	70.2	53.1	79.7
63	43.3	31.8	47.8

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

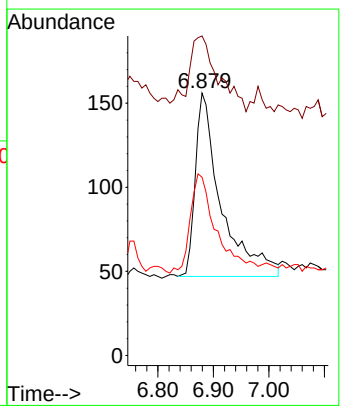


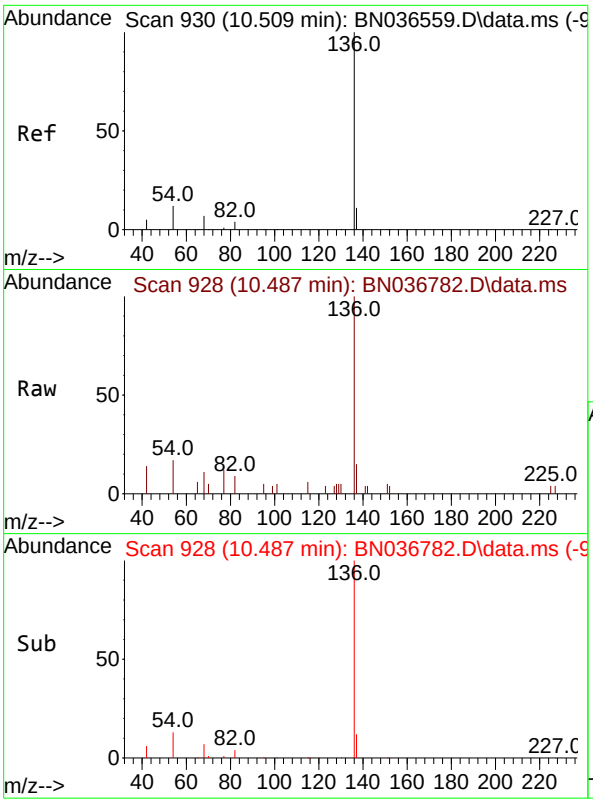


#5
Phenol-d6
Concen: 0.087 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion: 99 Resp: 352

Ion	Ratio	Lower	Upper
99	100		
42	47.4	26.5	39.7#
71	54.8	34.1	51.1#

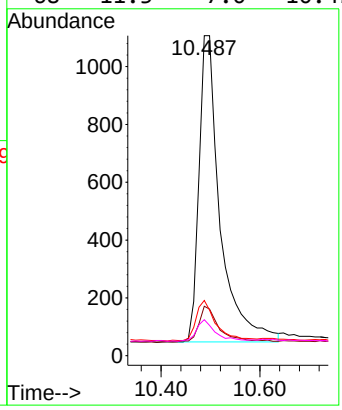




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:136 Resp: 314

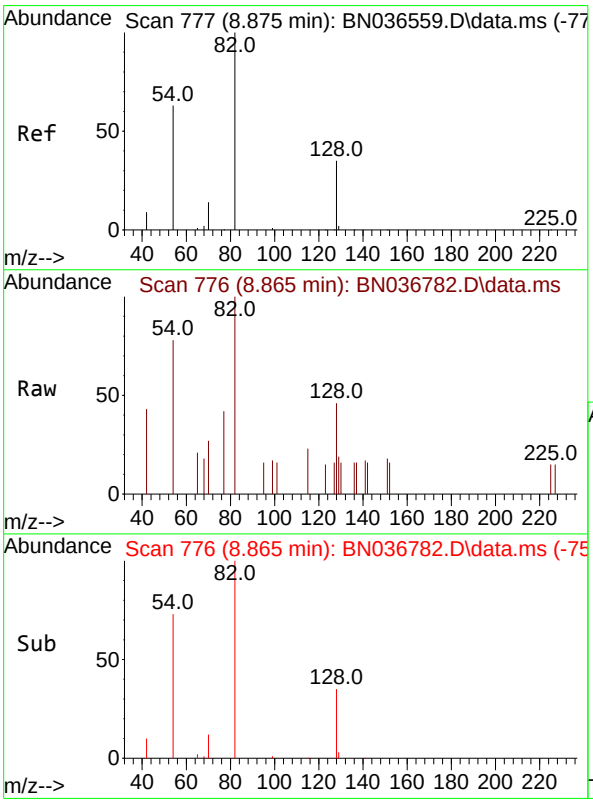
Ion	Ratio	Lower	Upper
136	100		
137	15.4	10.3	15.5
54	17.3	11.5	17.3
68	11.3	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations
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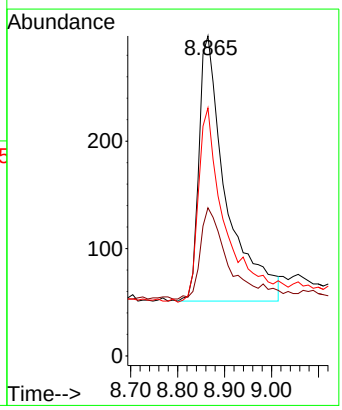
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

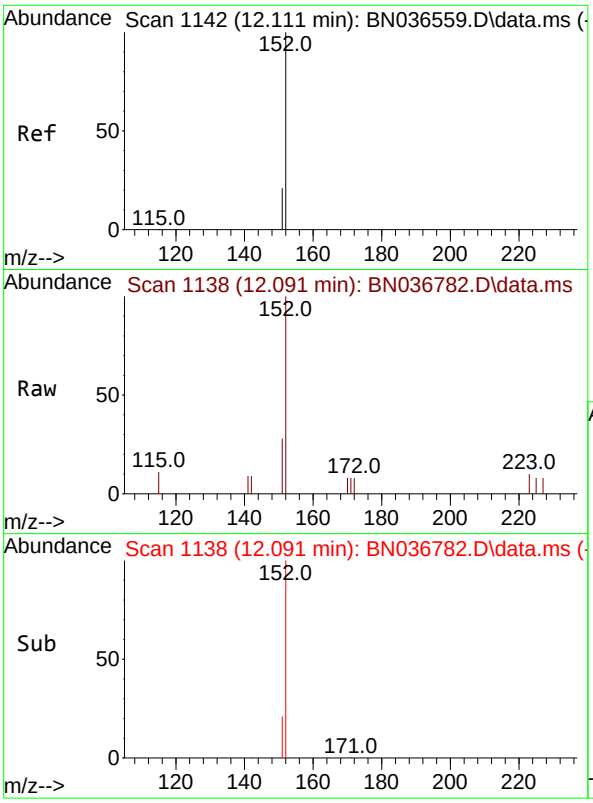


#8
Nitrobenzene-d5
Concen: 0.292 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion: 82 Resp: 999

Ion	Ratio	Lower	Upper
82	100		
128	46.3	30.6	45.8#
54	77.5	52.2	78.4





#11
2-Methylnaphthalene-d10
Concen: 0.328 ng
RT: 12.091 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

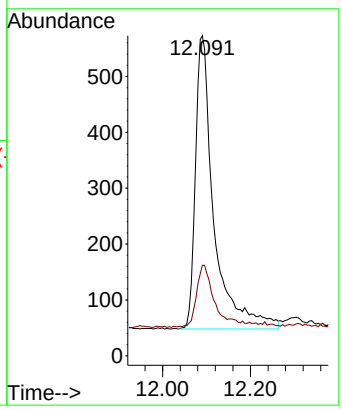
Tgt Ion:152 Resp: 153

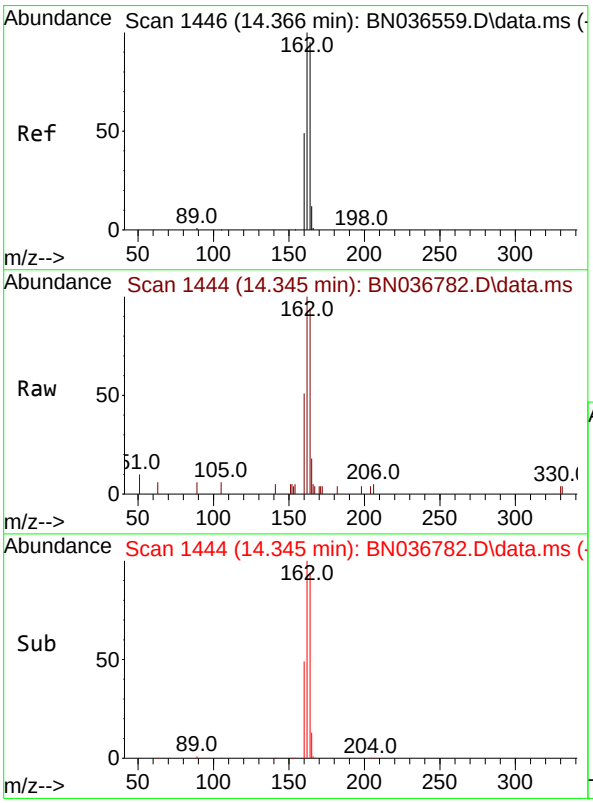
Ion	Ratio	Lower	Upper
152	100		
151	19.7	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

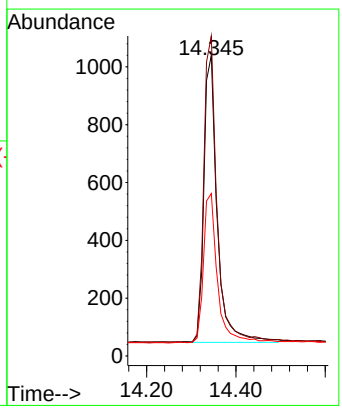


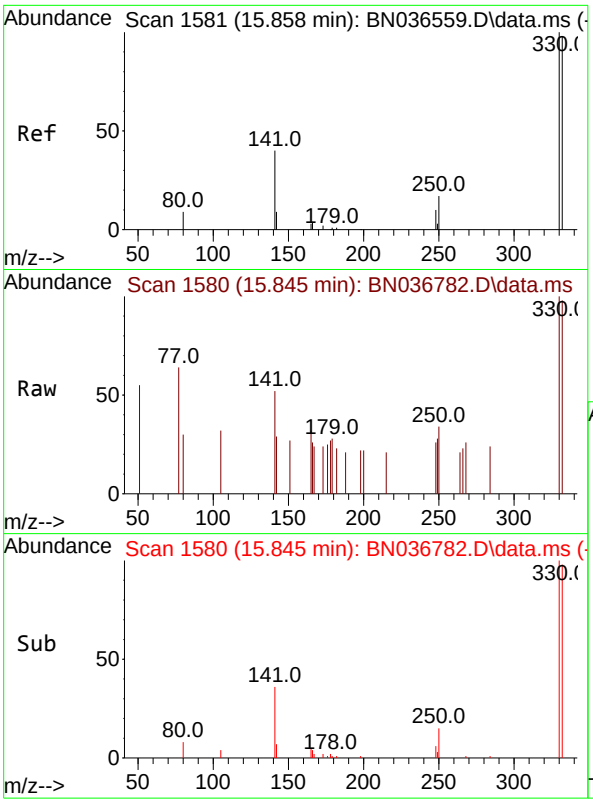


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:164 Resp: 2055

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.2
160	54.0	42.2	63.2

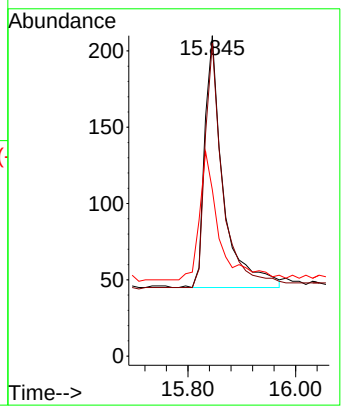




#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:330 Resp: 39

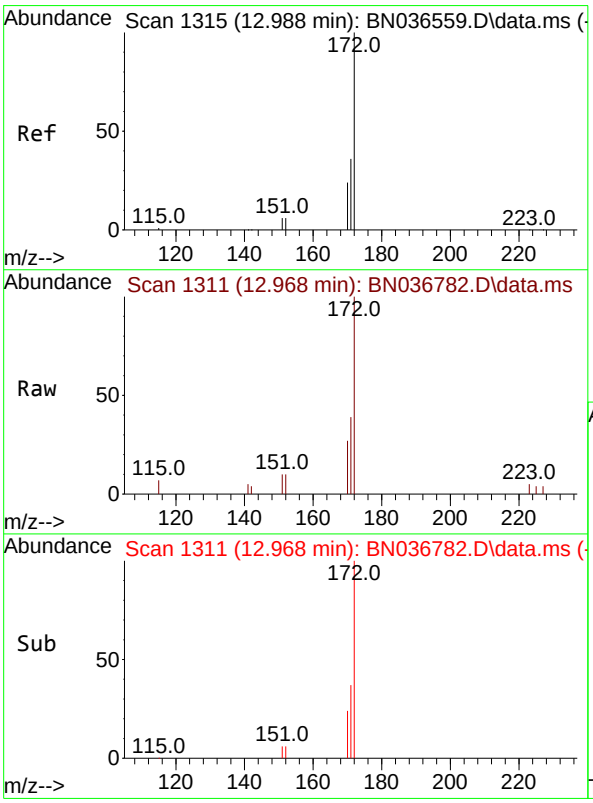
Ion	Ratio	Lower	Upper
330	100		
332	94.2	75.2	112.8
141	53.0	43.4	65.2



Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations
APPROVED

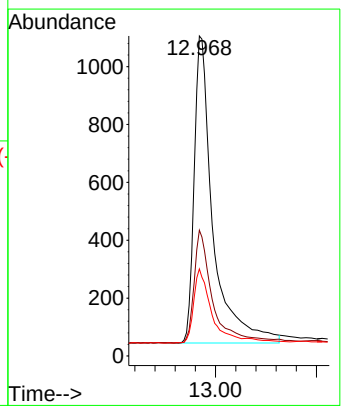
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

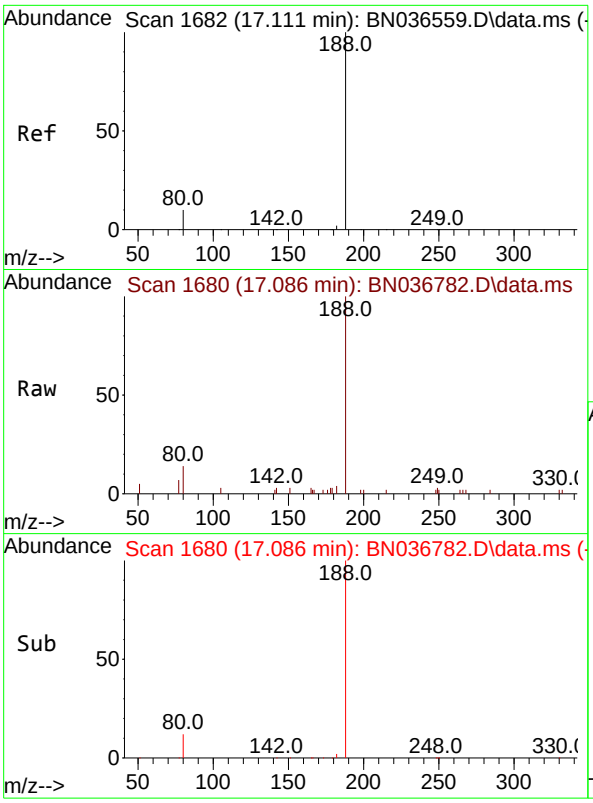


#15
2-Fluorobiphenyl
Concen: 0.301 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:172 Resp: 3596

Ion	Ratio	Lower	Upper
172	100		
171	39.3	29.5	44.3
170	27.2	20.2	30.4

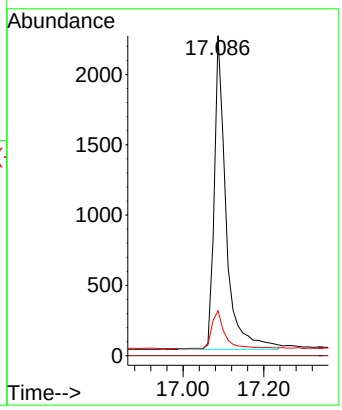




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:188 Resp: 454

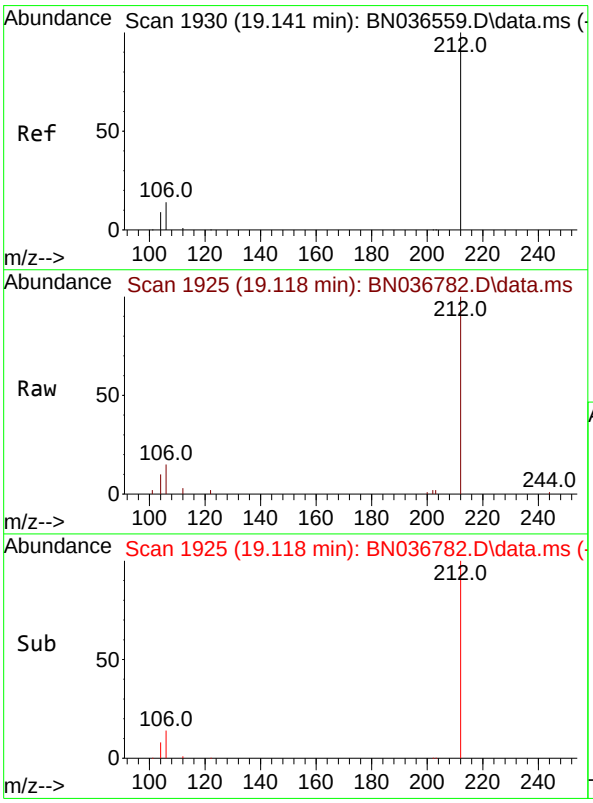
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations
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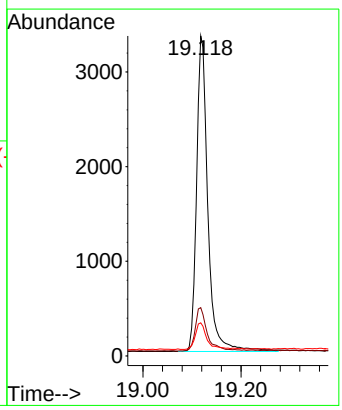
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

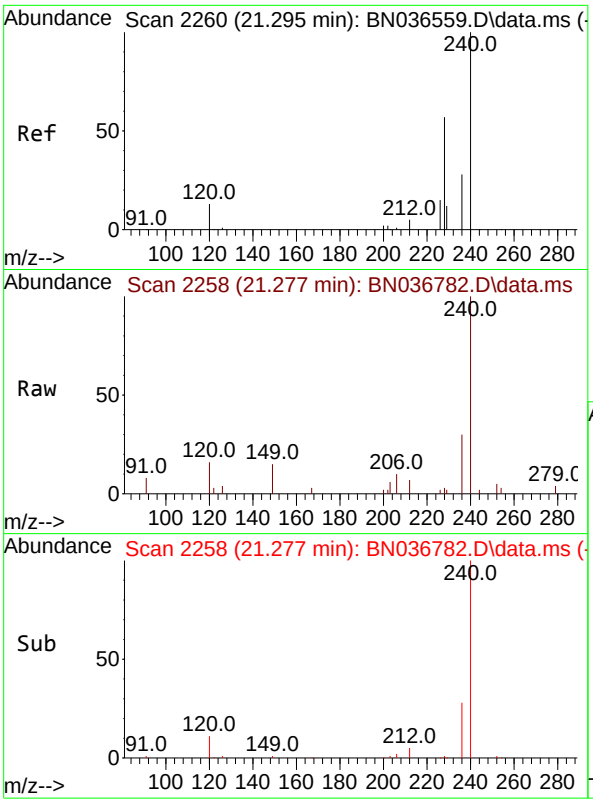


#27
Fluoranthene-d10
Concen: 0.456 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:212 Resp: 5312

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	8.6	7.3	10.9

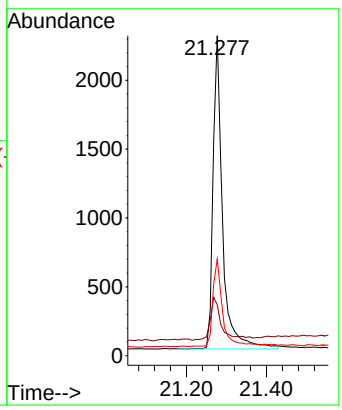




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:240 Resp: 375

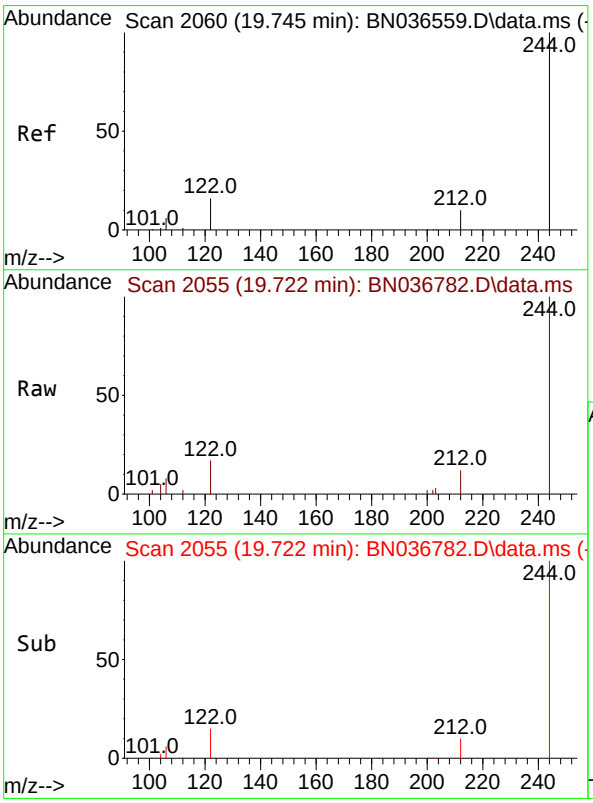
Ion	Ratio	Lower	Upper
240	100		
120	16.0	14.6	22.0
236	30.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations
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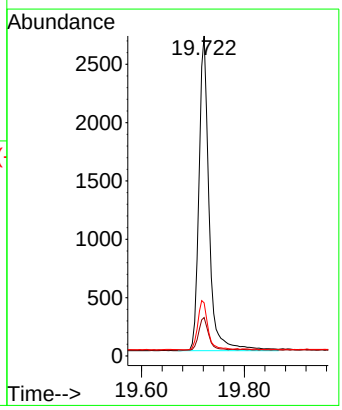
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

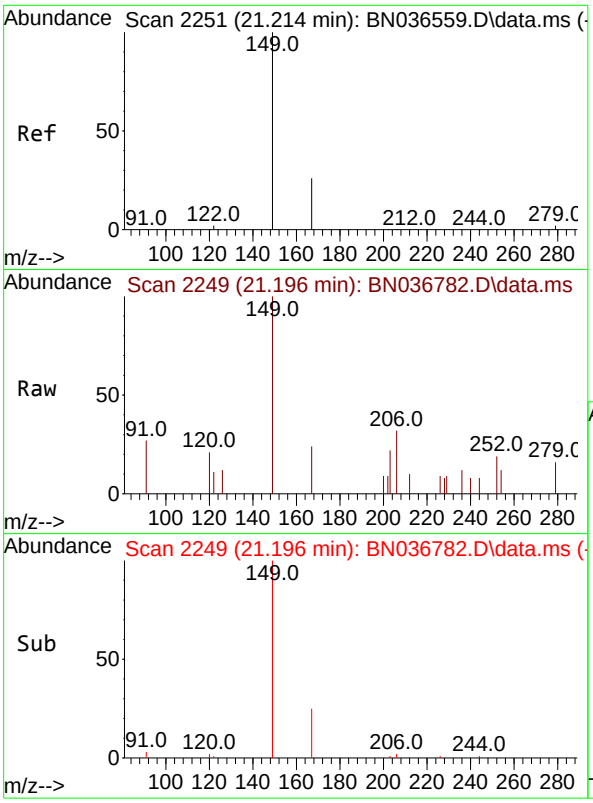


#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:244 Resp: 3705

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	16.6	13.9	20.9

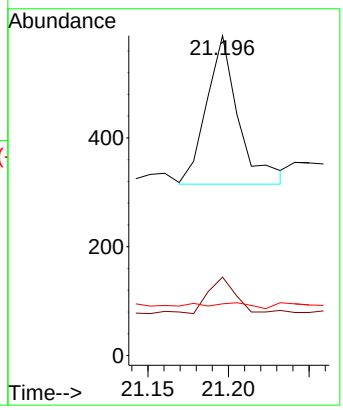




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.040 ng m
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:149 Resp: 37

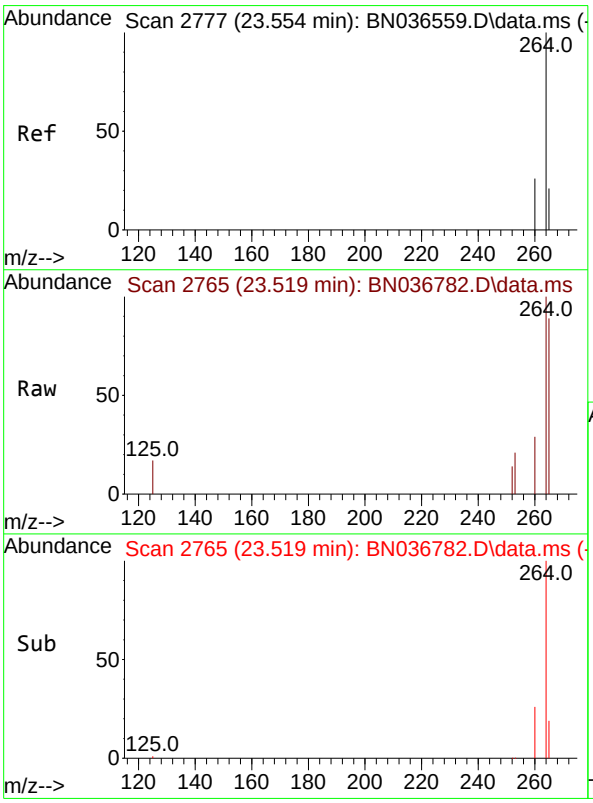
Ion	Ratio	Lower	Upper
149	100		
167	21.9	20.7	31.1
279	5.9	3.6	5.4



Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Manual Integrations
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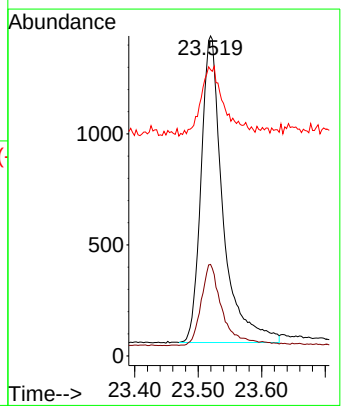
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:264 Resp: 3299

Ion	Ratio	Lower	Upper
264	100		
260	28.6	22.6	33.8
265	89.5	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----------								

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

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

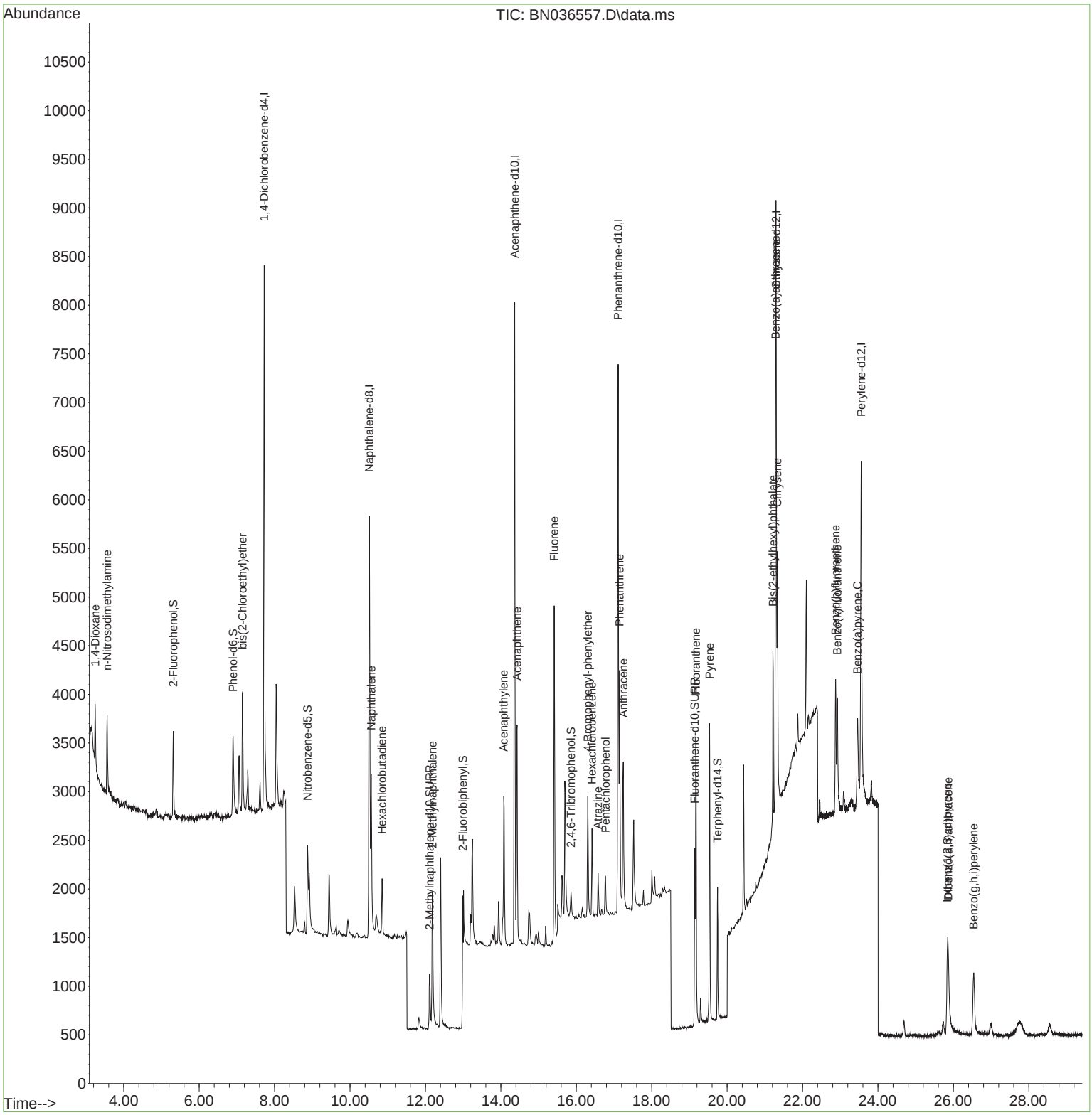
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

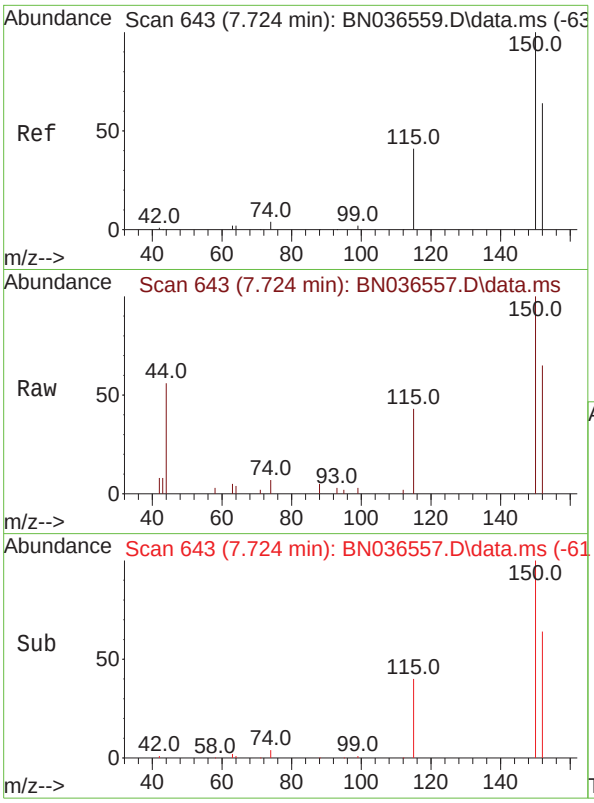
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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

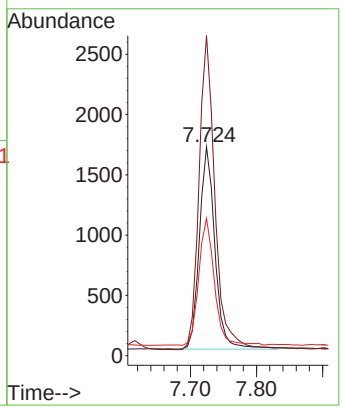




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 275

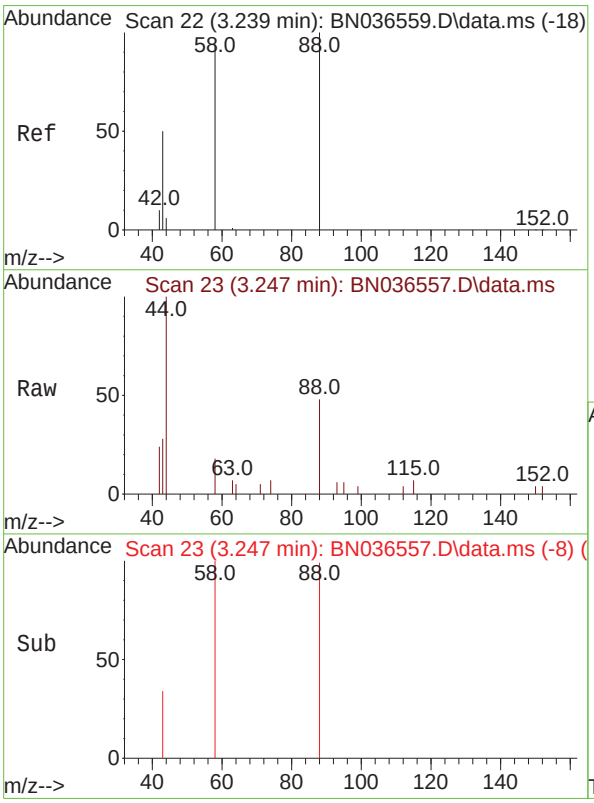
Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	65.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

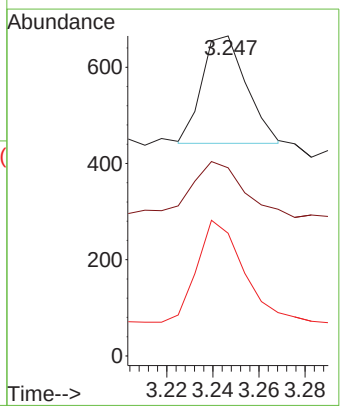
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

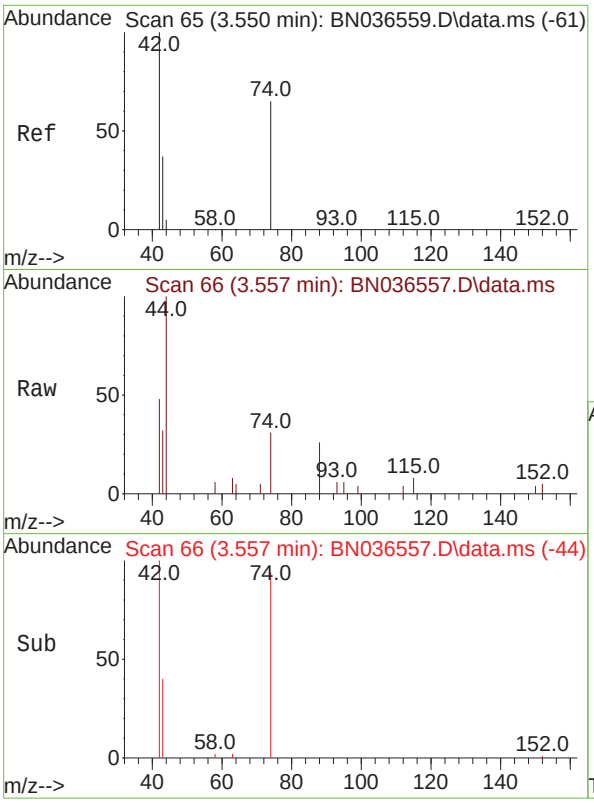


#2
1,4-Dioxane
Concen: 0.098 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#

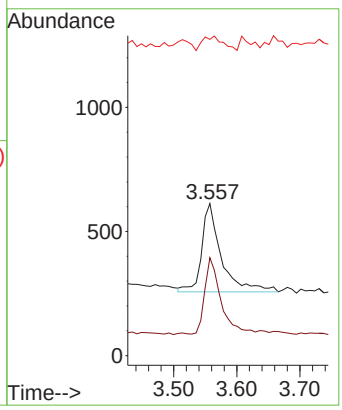




#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 42 Resp: 76

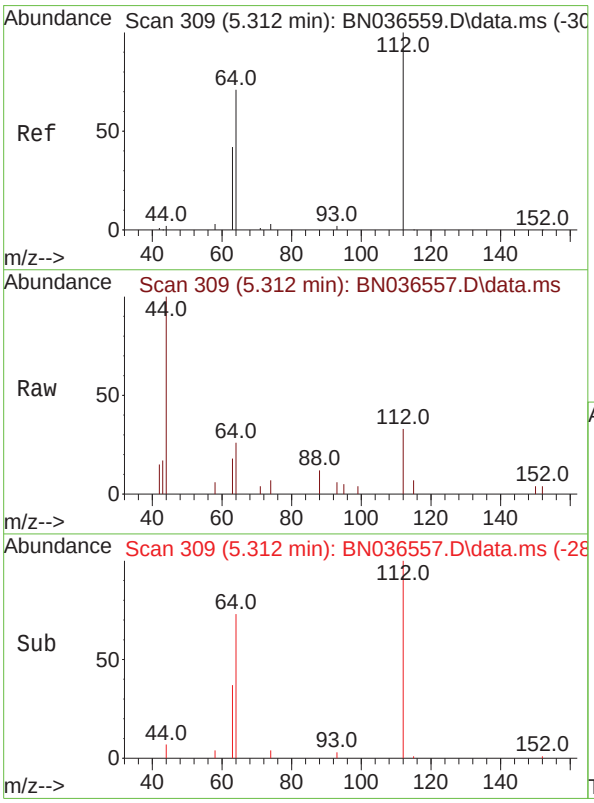
Ion	Ratio	Lower	Upper
42	100		
74	73.0	60.6	90.8
44	16.6	6.3	9.5#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

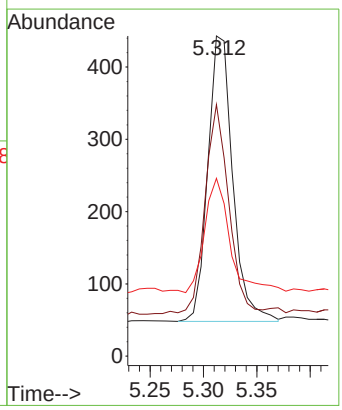
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

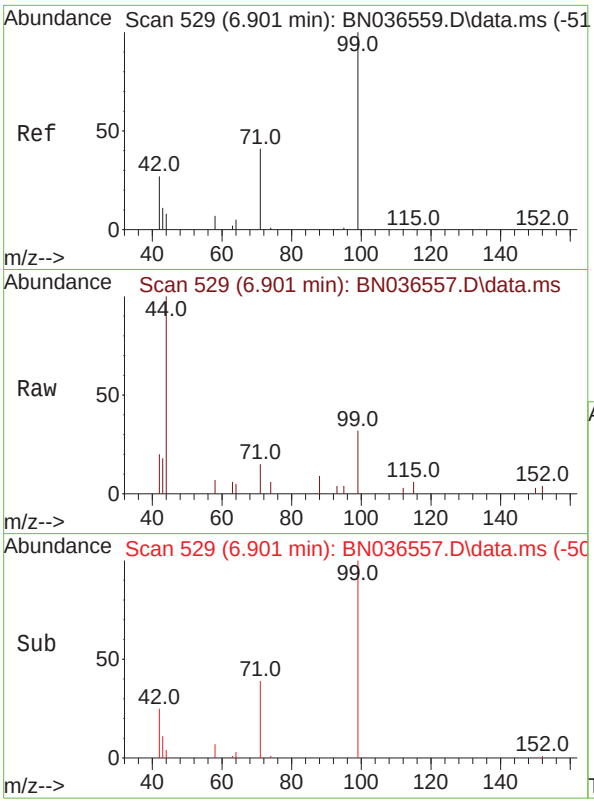


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

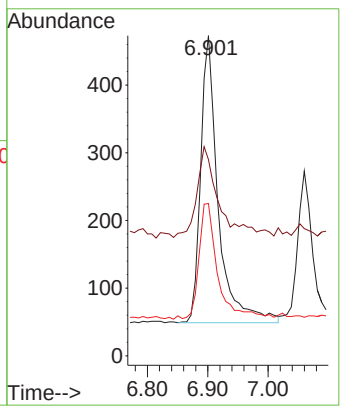




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 99 Resp: 85

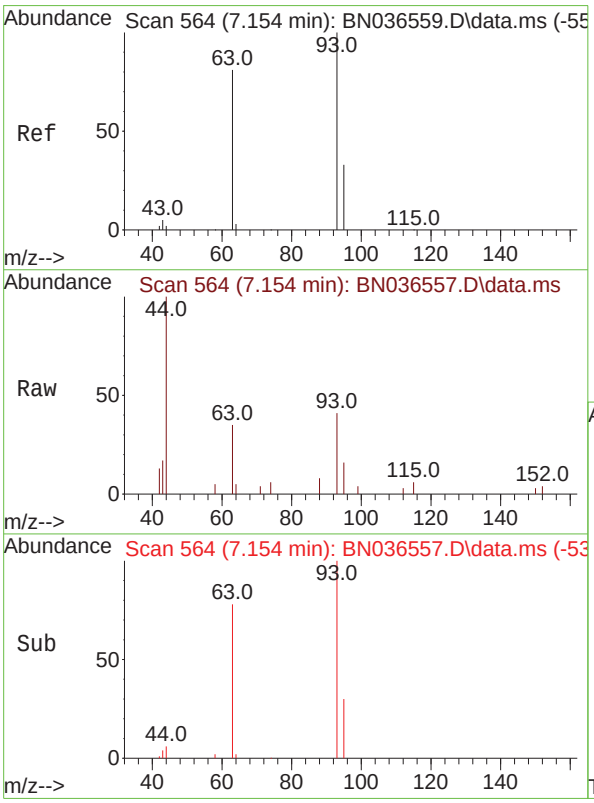
Ion	Ratio	Lower	Upper
99	100		
42	39.8	26.5	39.7#
71	42.8	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

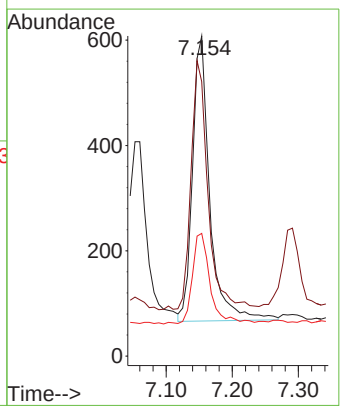
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

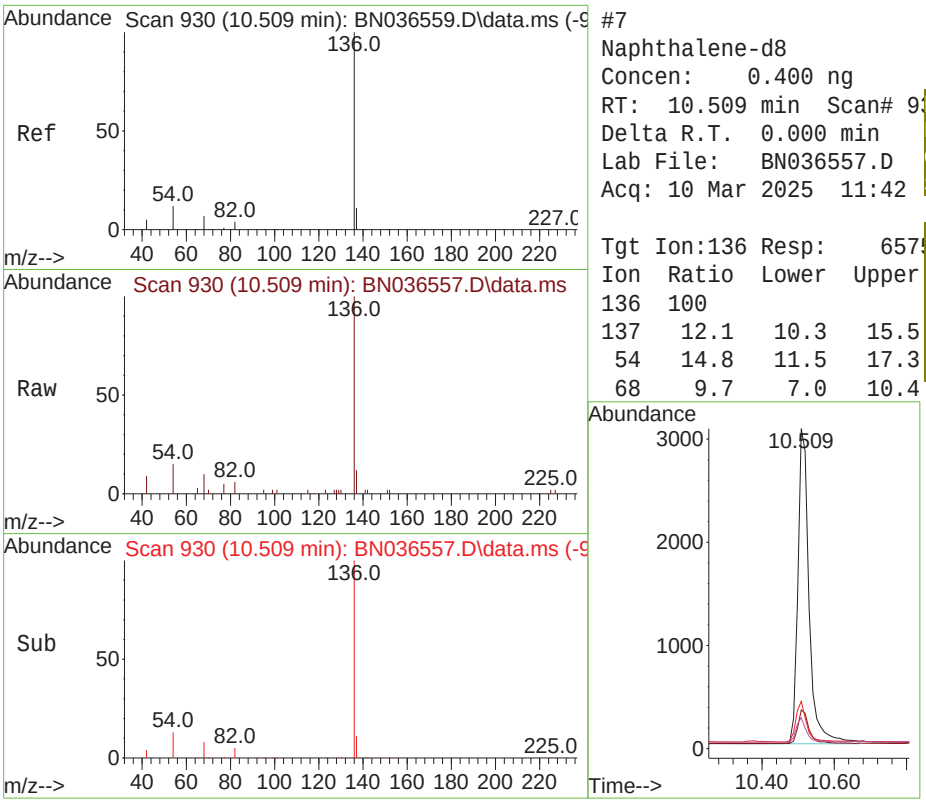


#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

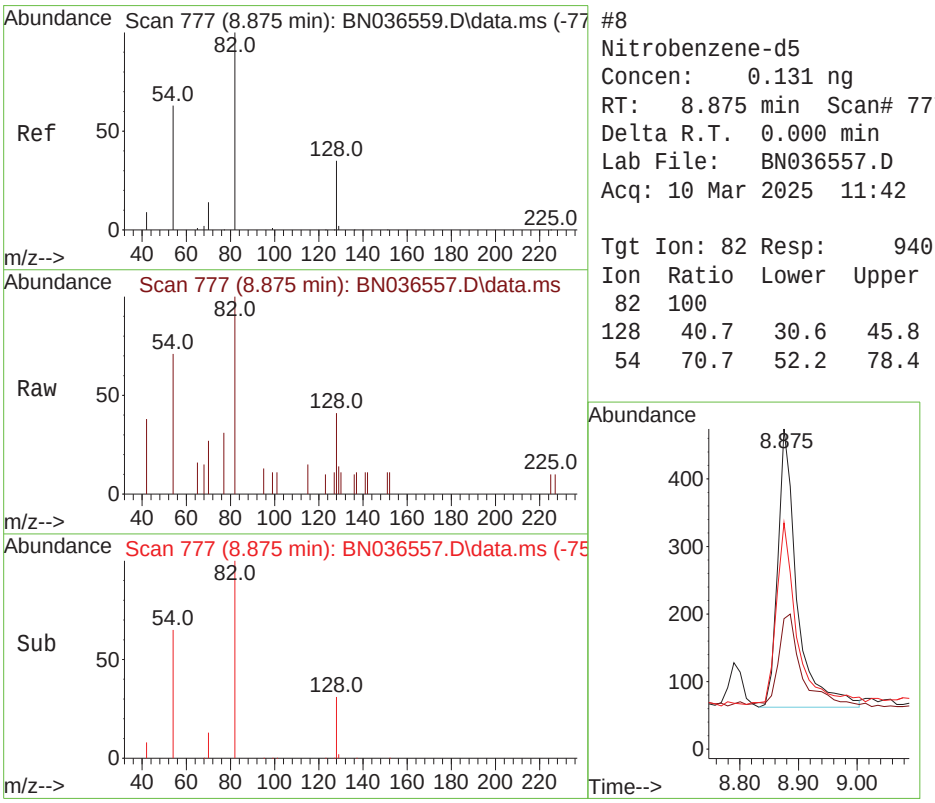
Tgt Ion:136 Resp: 657

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 :
SSTDICC0.1

Manual Integrations
APPROVED

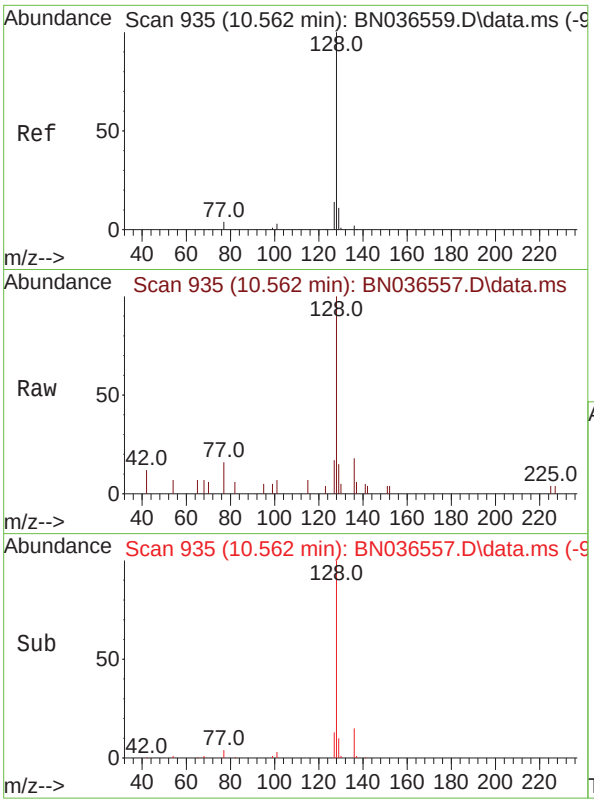
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

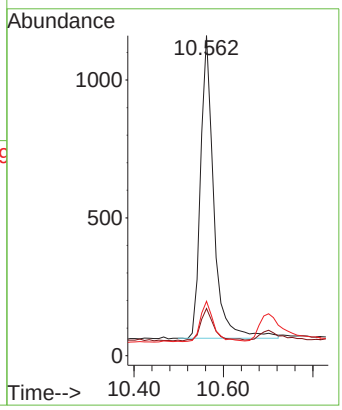
Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4



#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

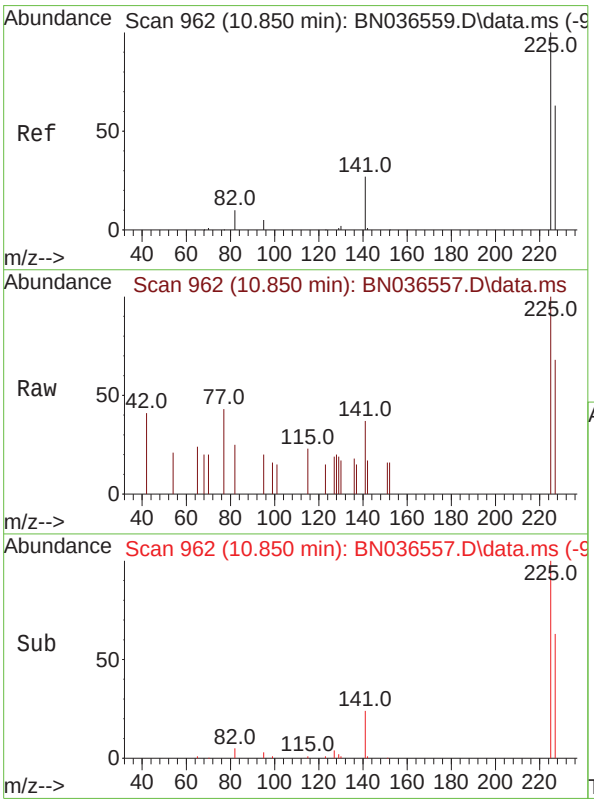
Ion	Ratio	Lower	Upper
128	100		
129	14.7	9.8	14.6#
127	17.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

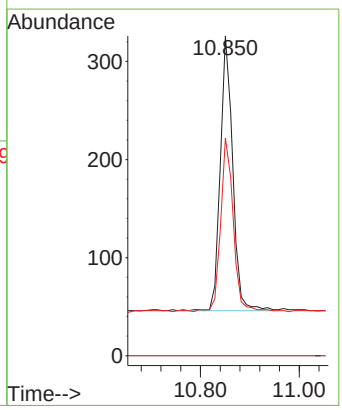
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

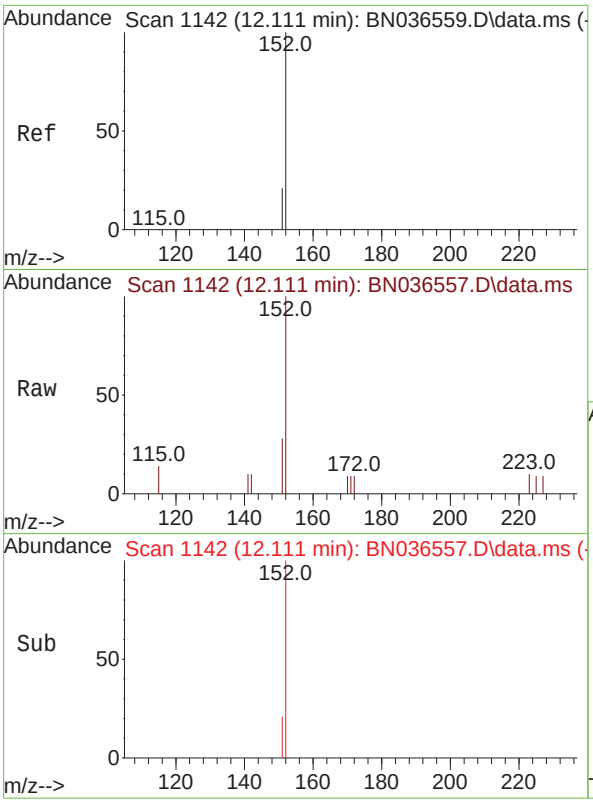


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

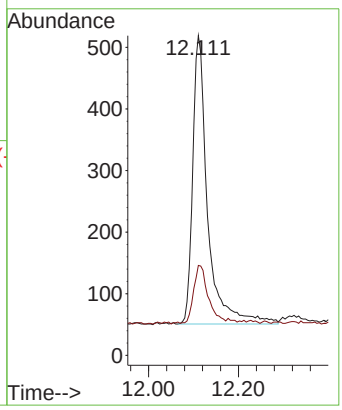
Tgt Ion:152 Resp: 107

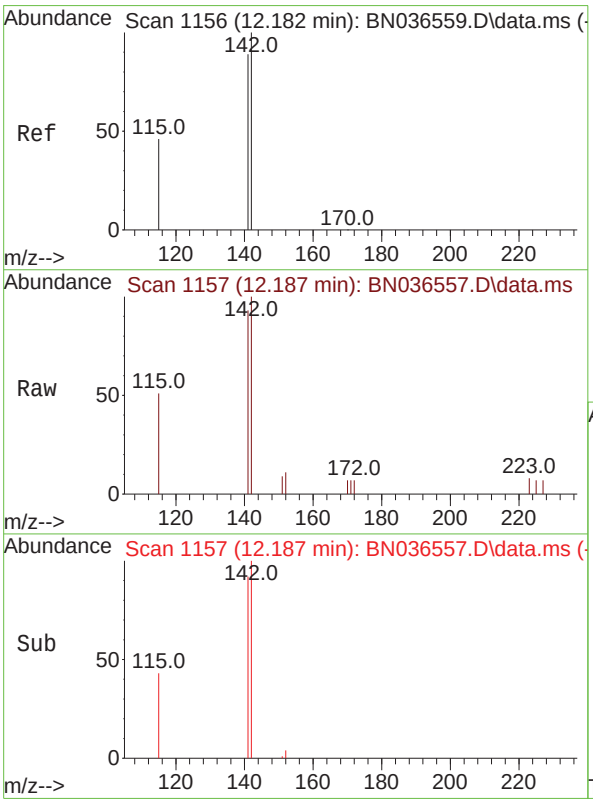
Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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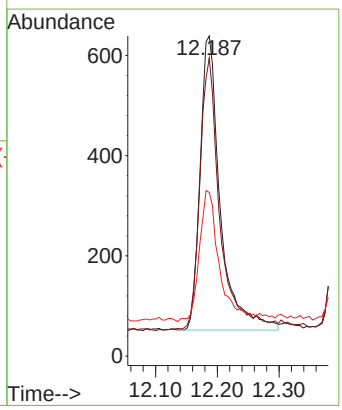


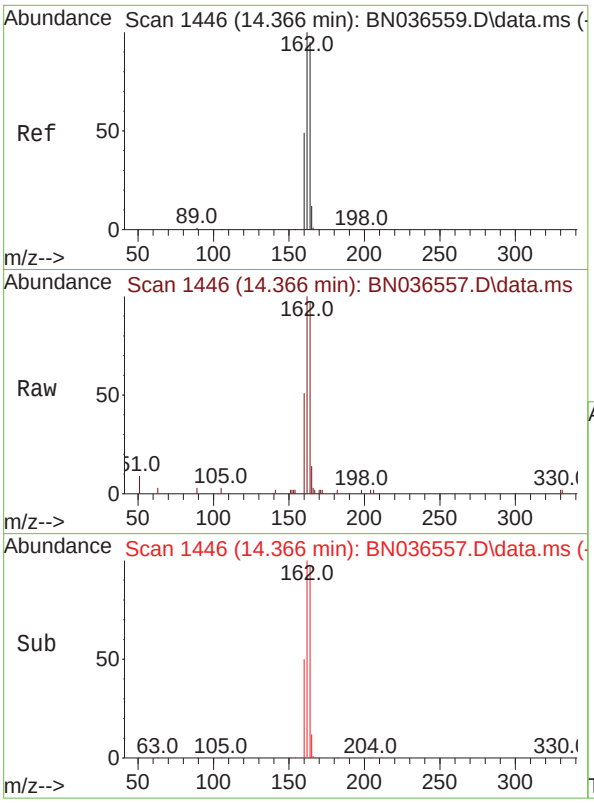


#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

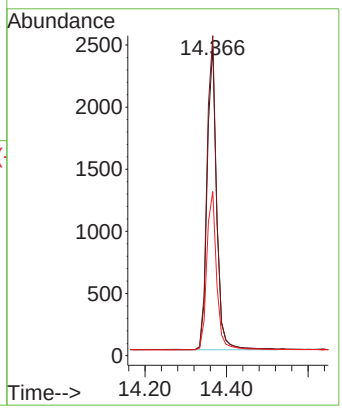
Tgt Ion:164 Resp: 395

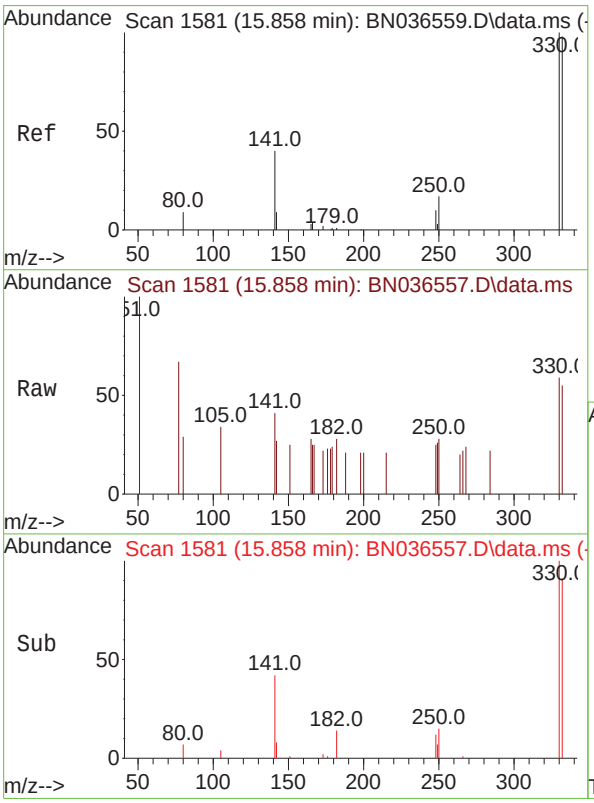
Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	53.0	42.2	63.2

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

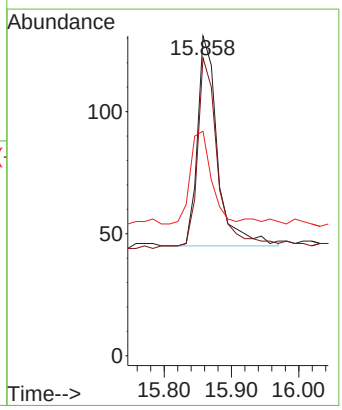


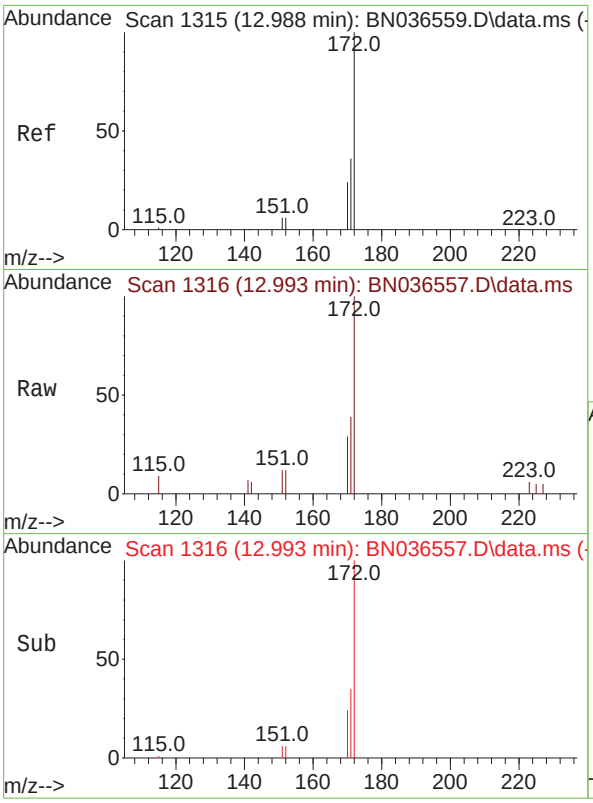


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

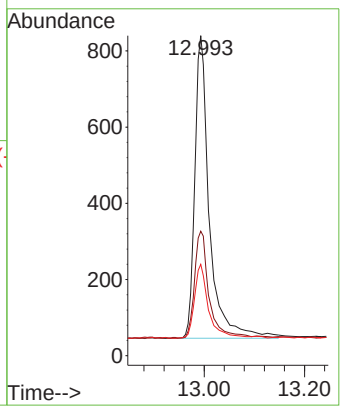




#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:172 Resp: 218

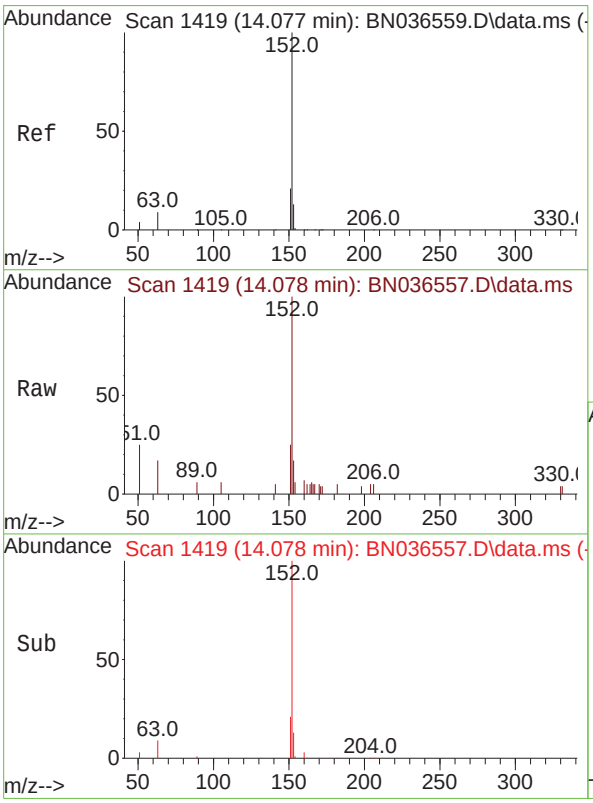
Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.6	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

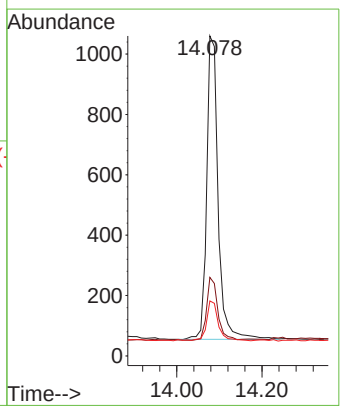
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

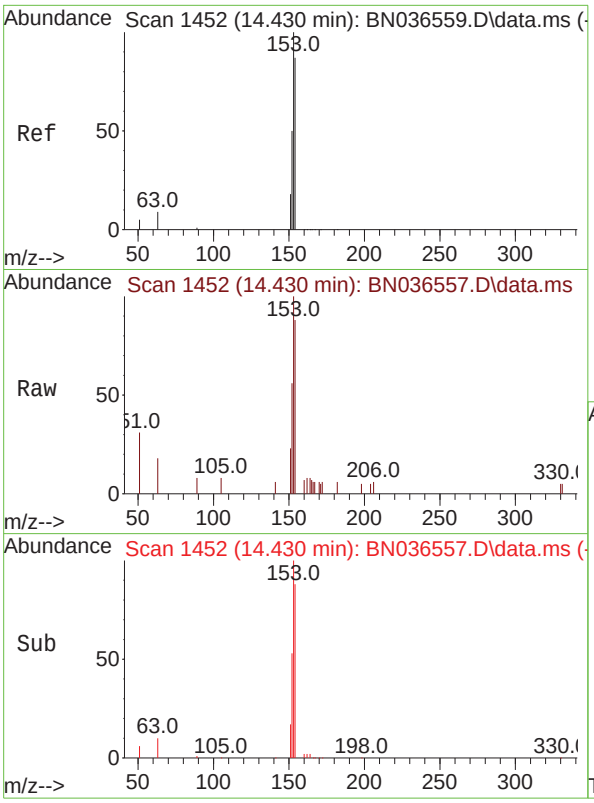


#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

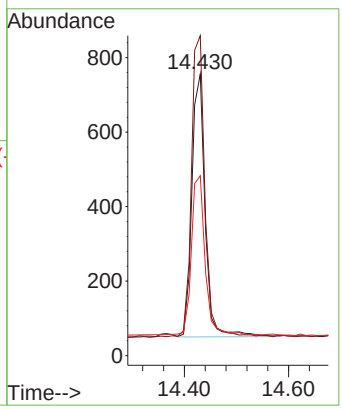




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:154 Resp: 124

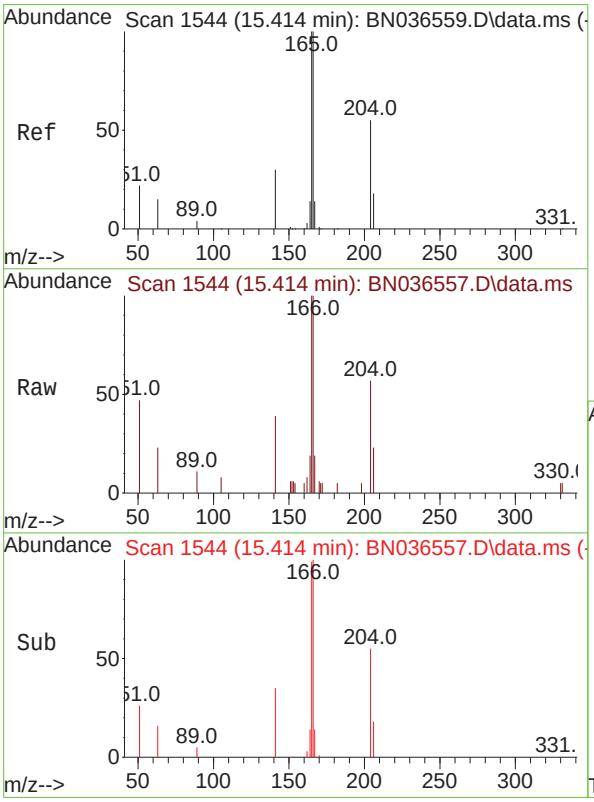
Ion	Ratio	Lower	Upper
154	100		
153	115.9	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

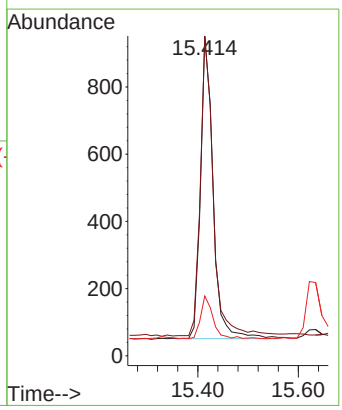
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

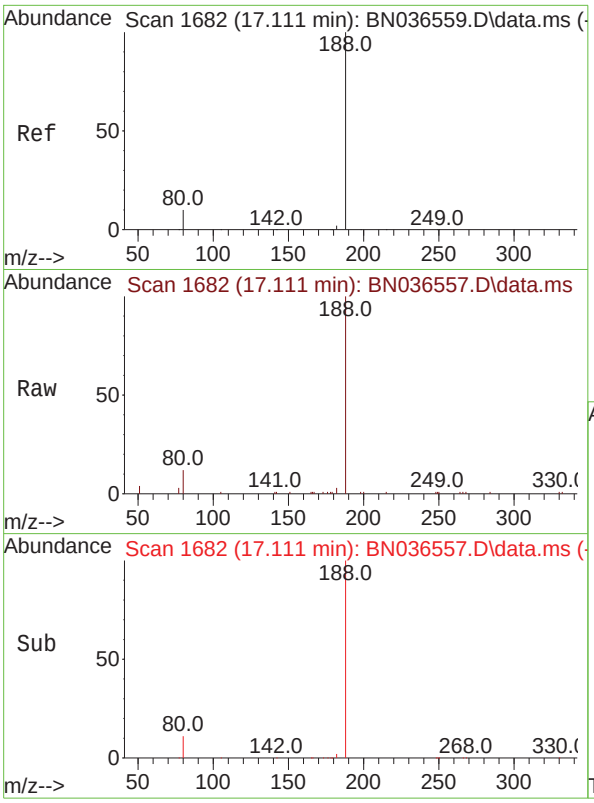


#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

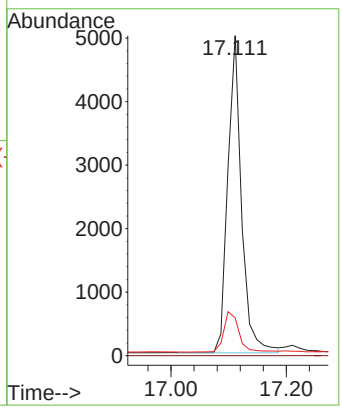




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:188 Resp: 826

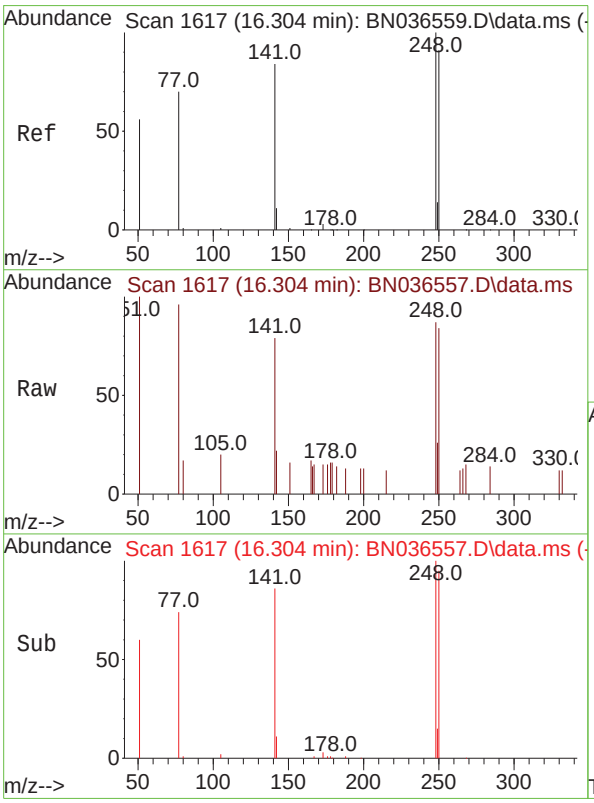
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

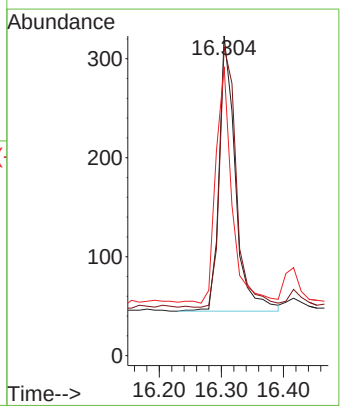
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

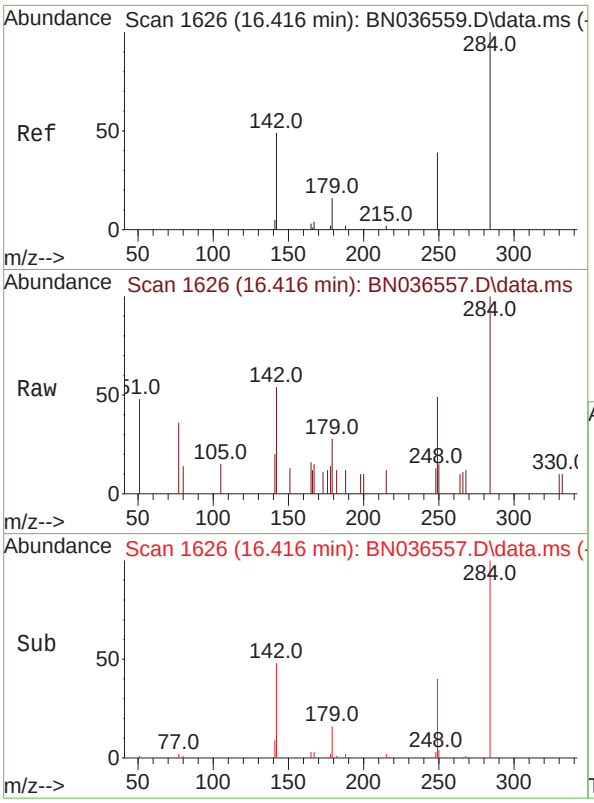


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

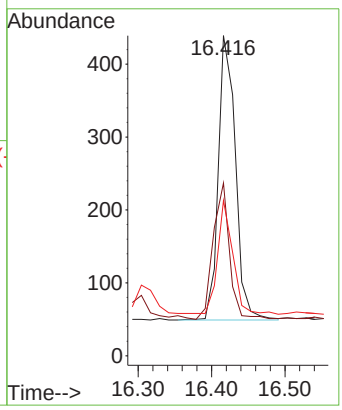
Tgt Ion:284 Resp: 63

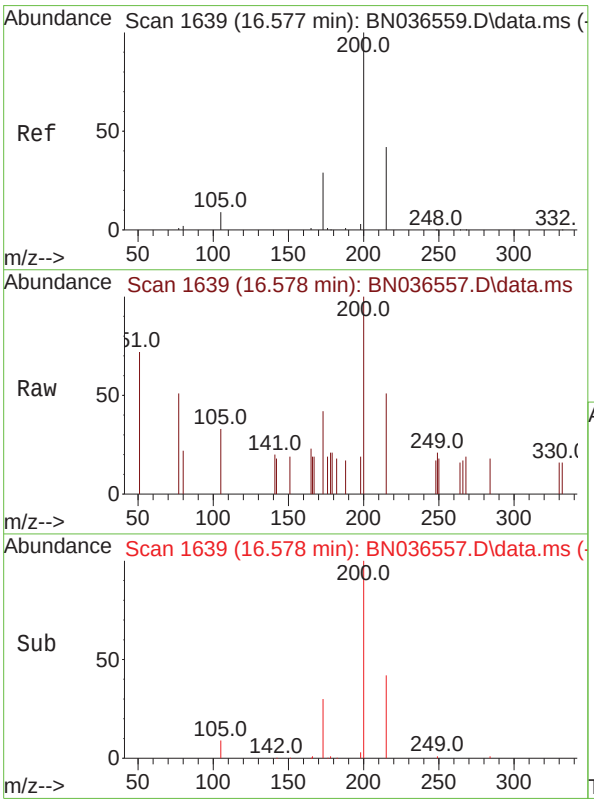
Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

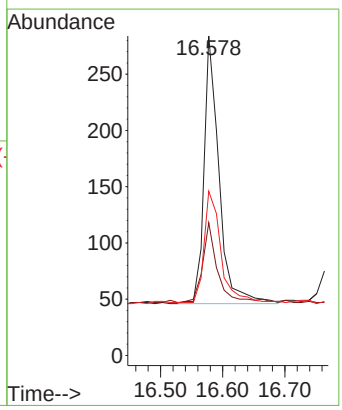


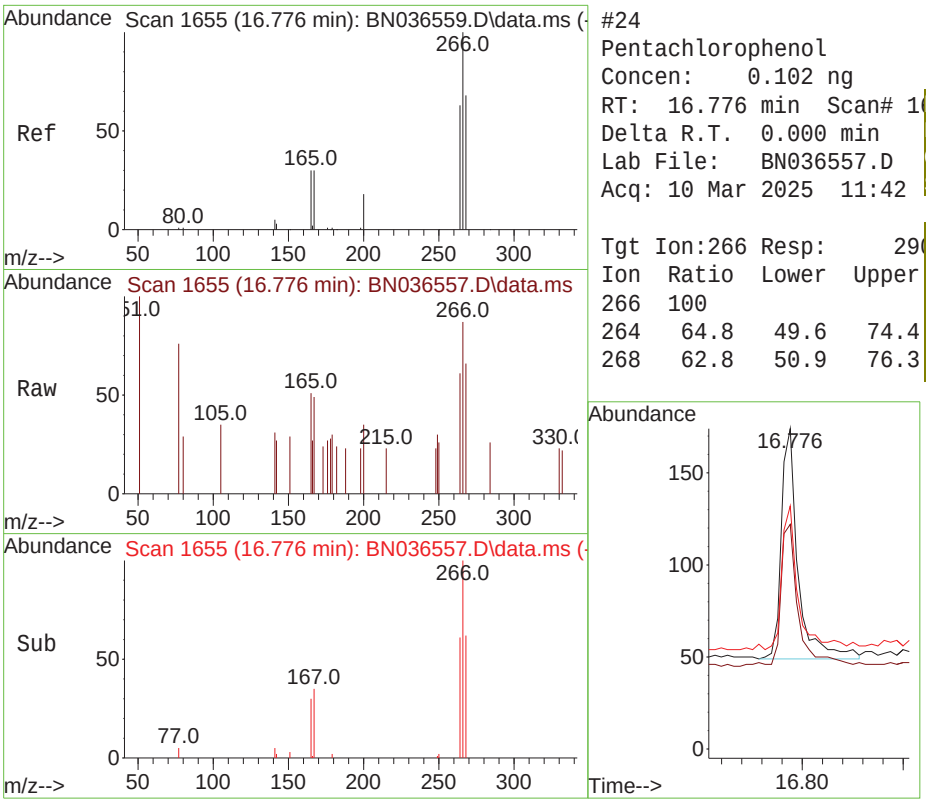


#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

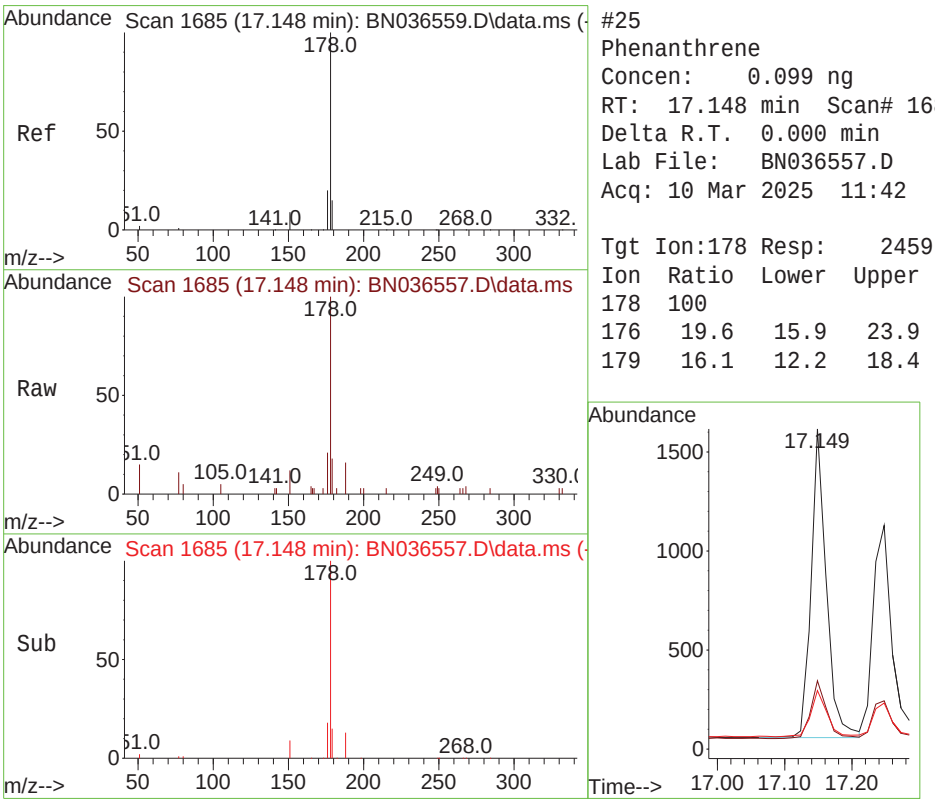
Tgt Ion:266 Resp: 29

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

Manual Integrations
APPROVED

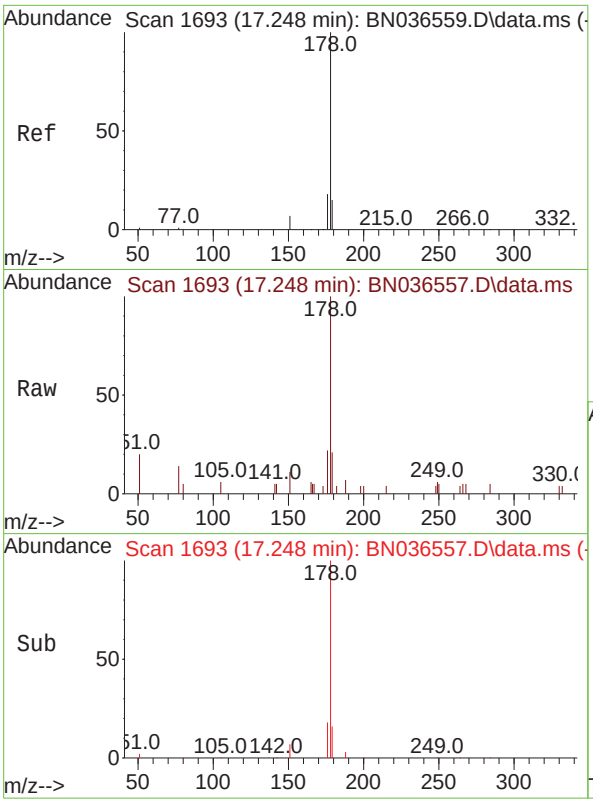
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

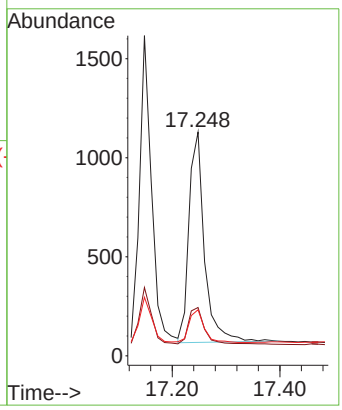
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4



#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

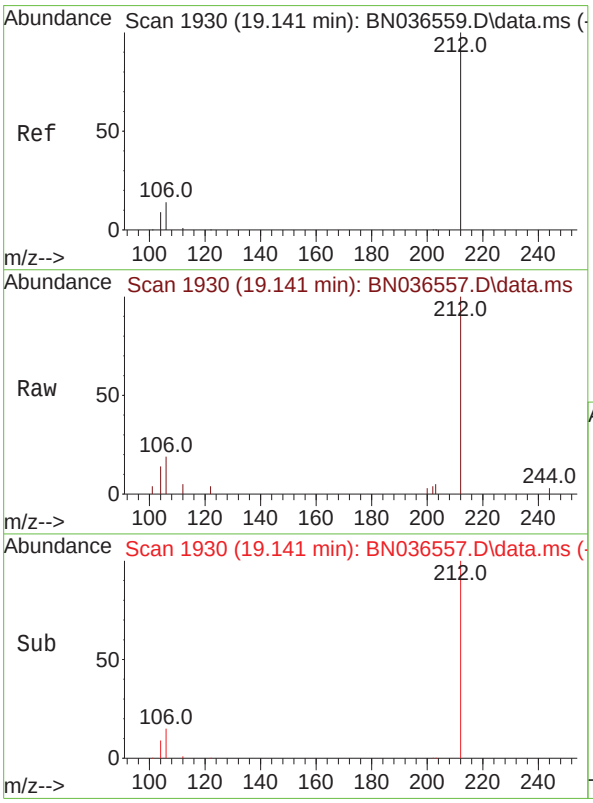
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

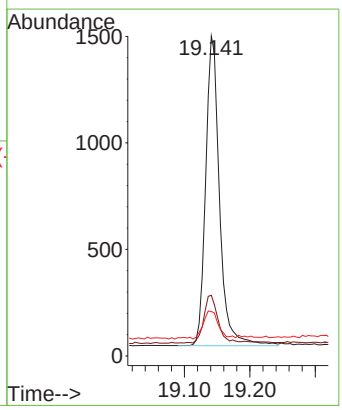
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

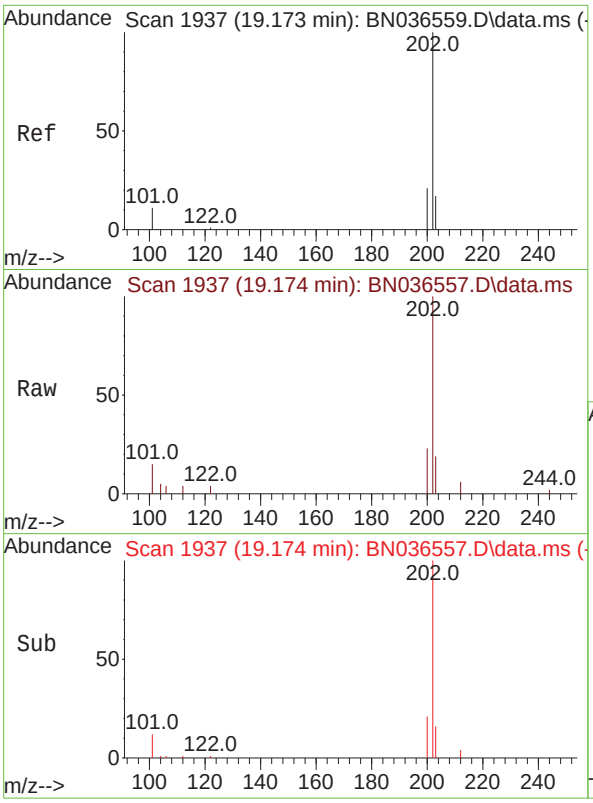


#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

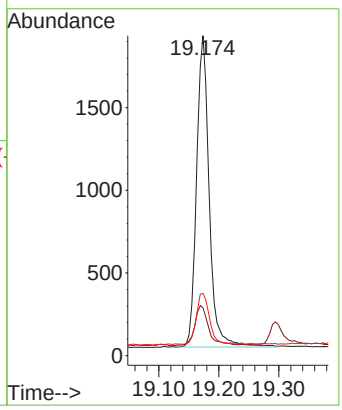




#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 277

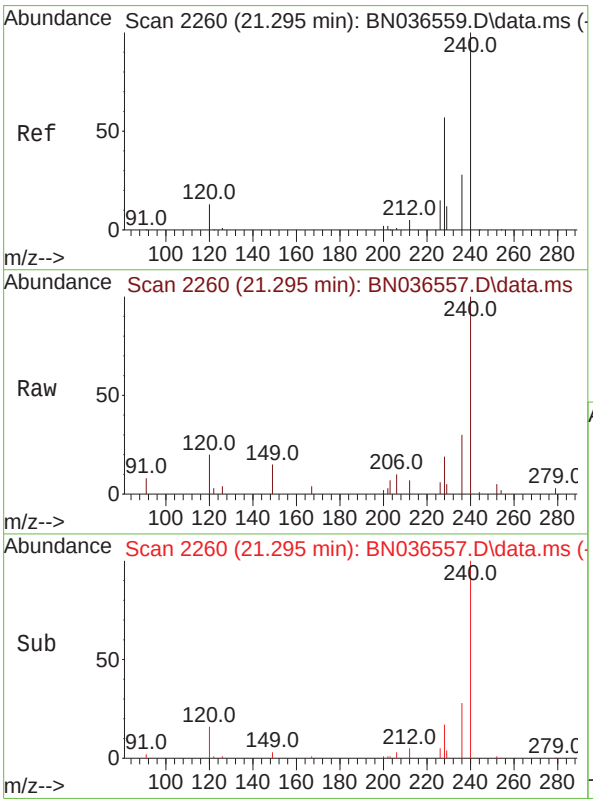
Ion	Ratio	Lower	Upper
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

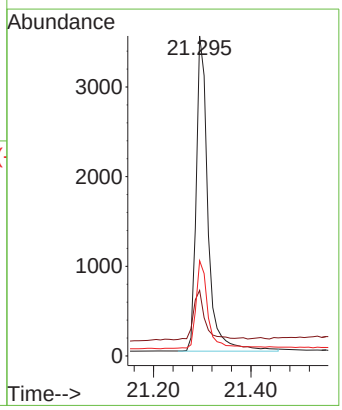
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

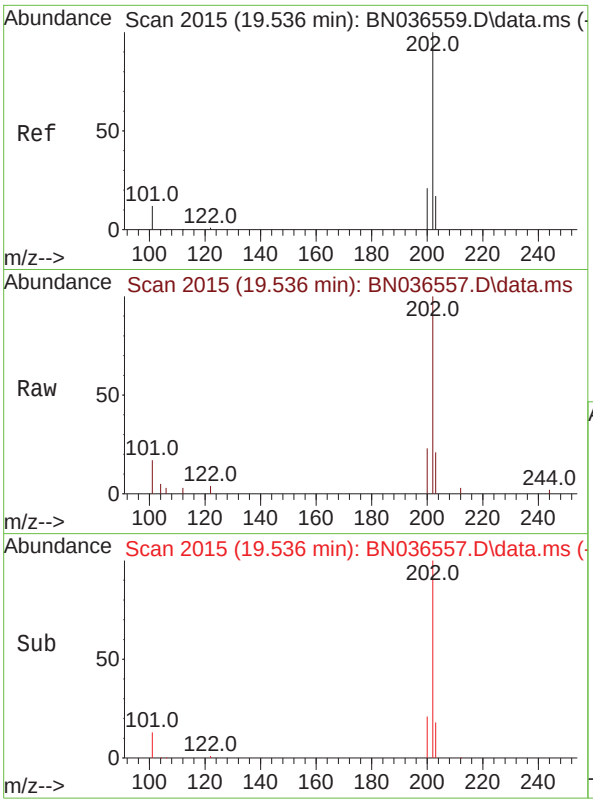


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

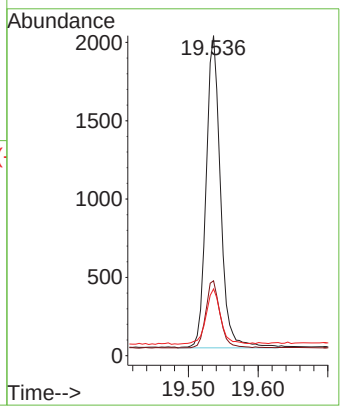




#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 286

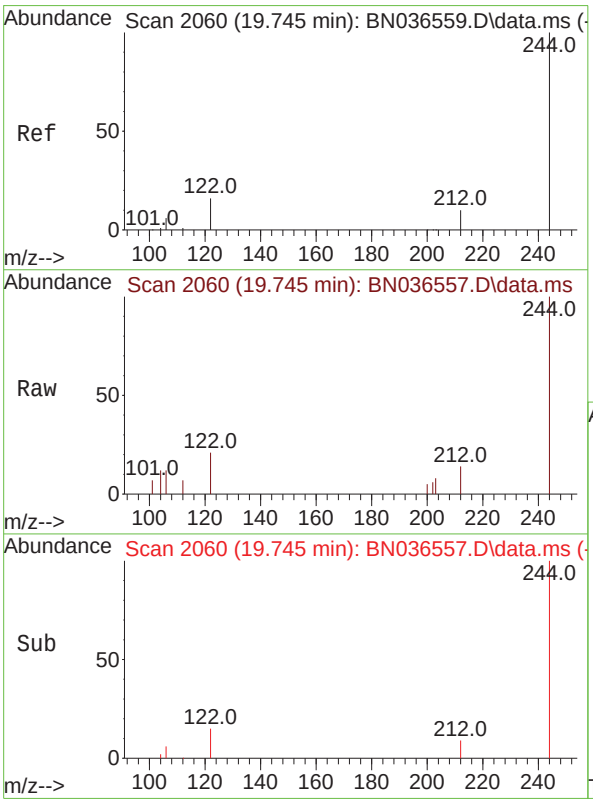
Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

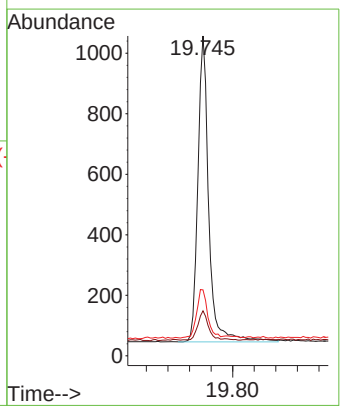
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

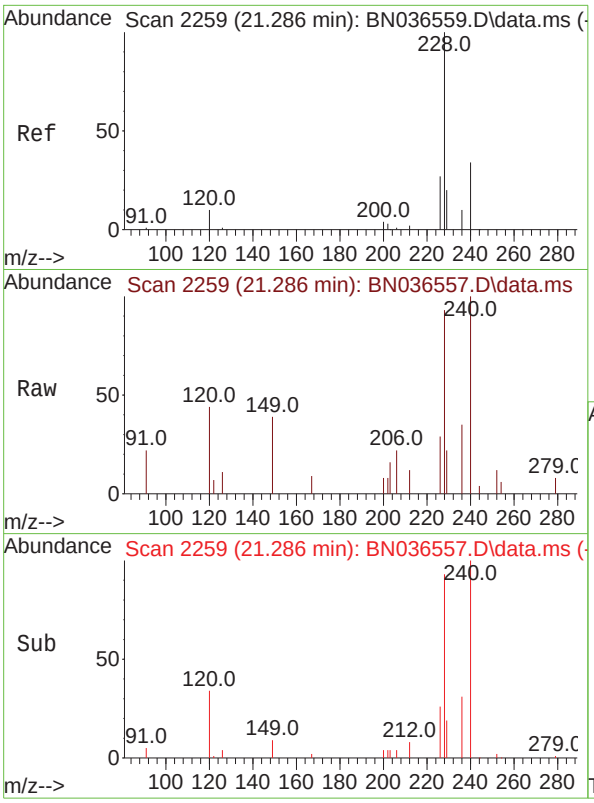


#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

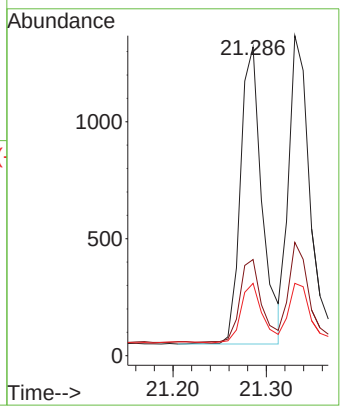
Tgt Ion:228 Resp: 204

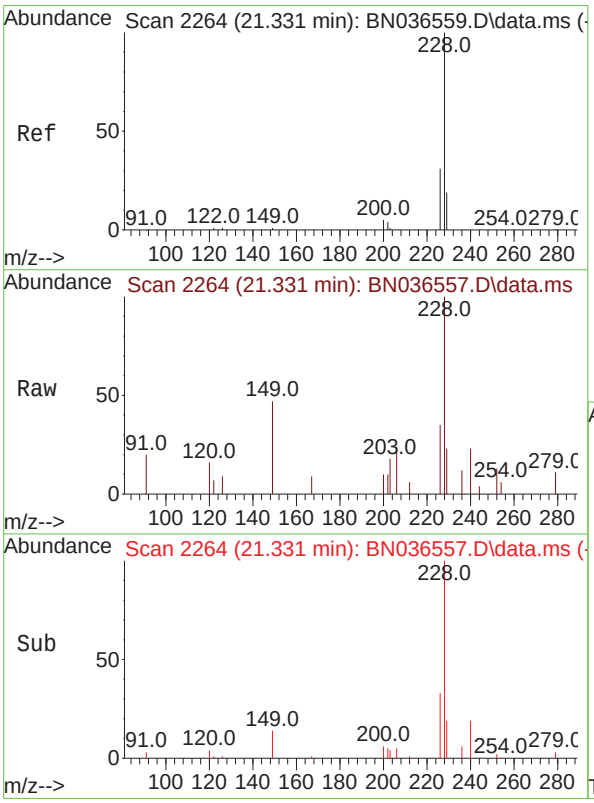
Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

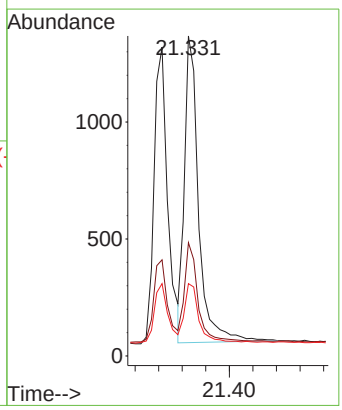


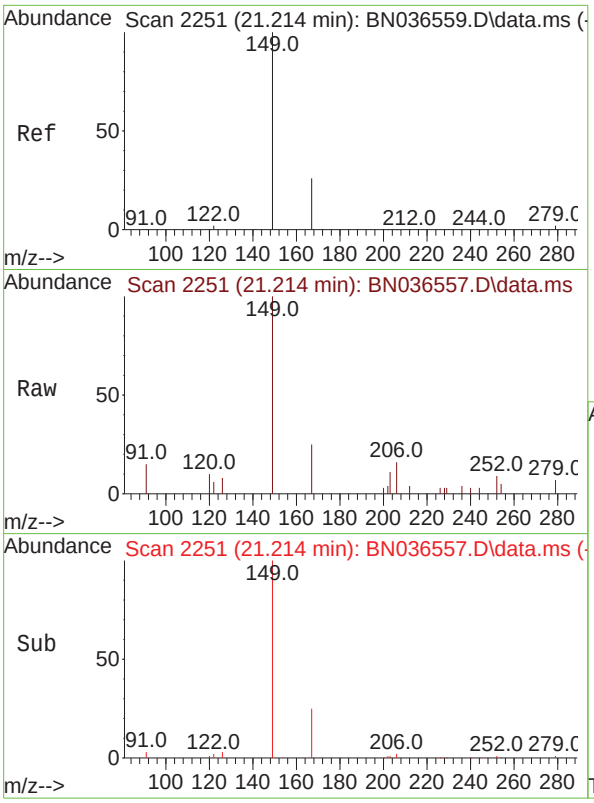


#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

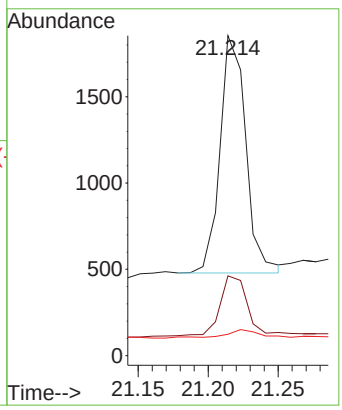
Tgt Ion:149 Resp: 176

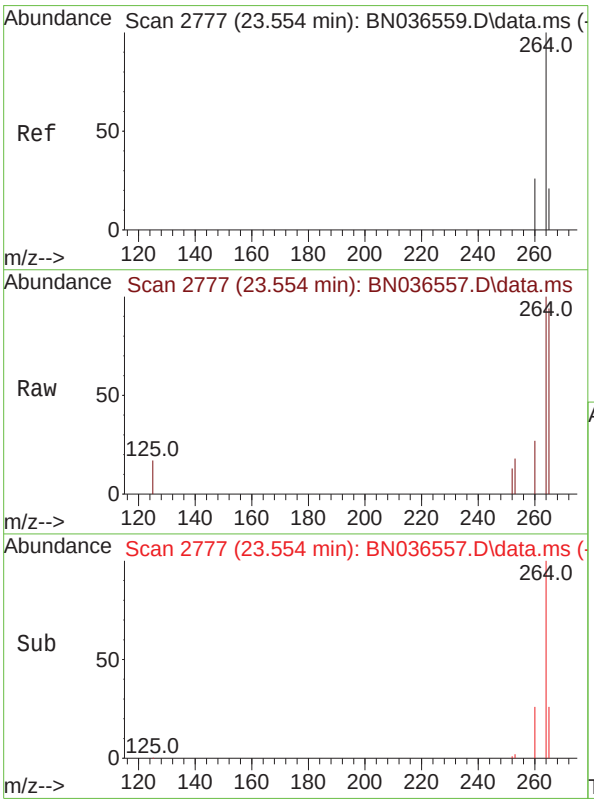
Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	4.9	3.6	5.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

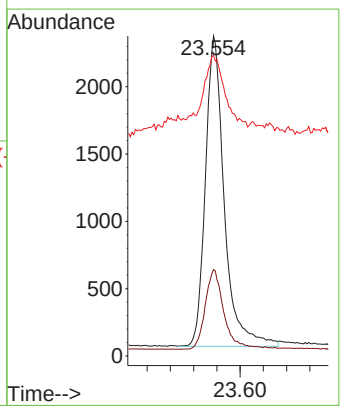


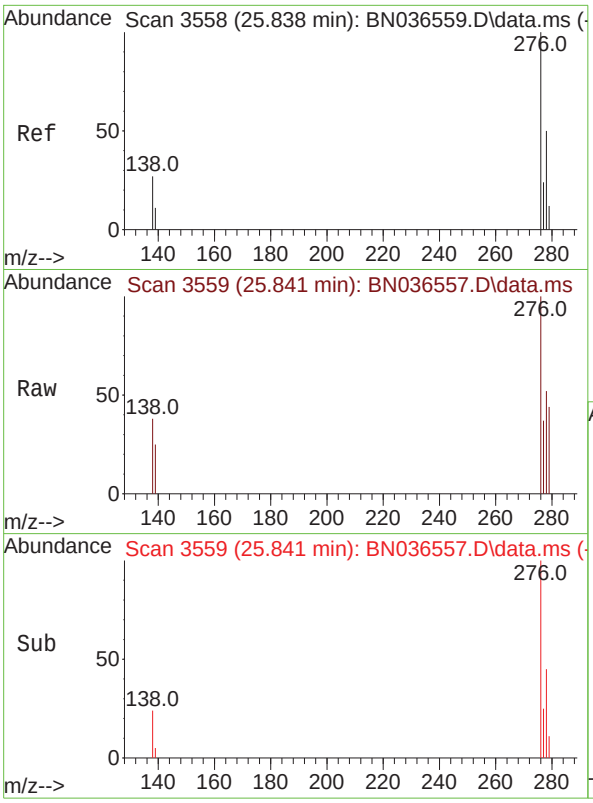


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

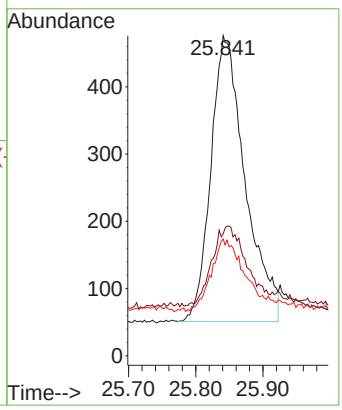




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 151

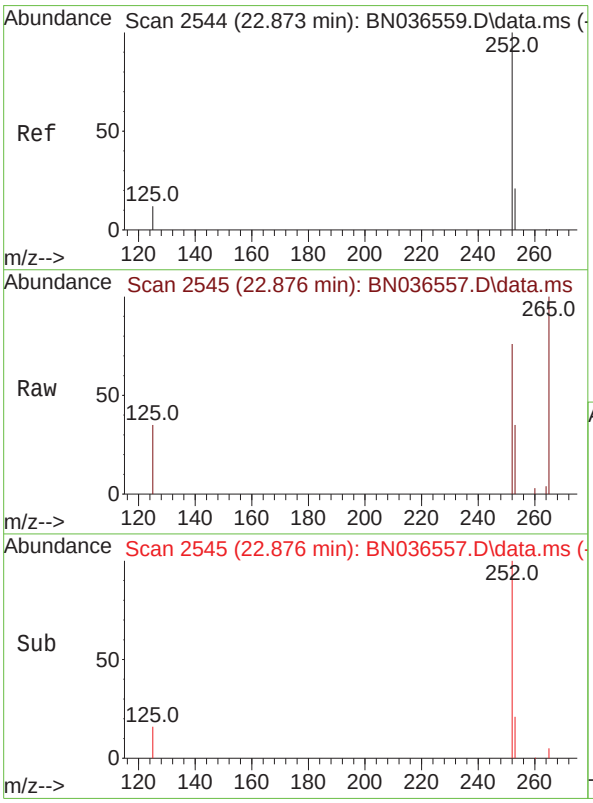
Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.4	35.2
277	24.2	20.0	30.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

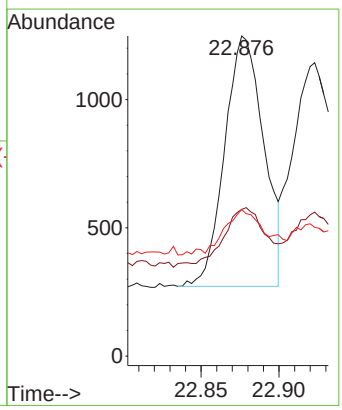
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

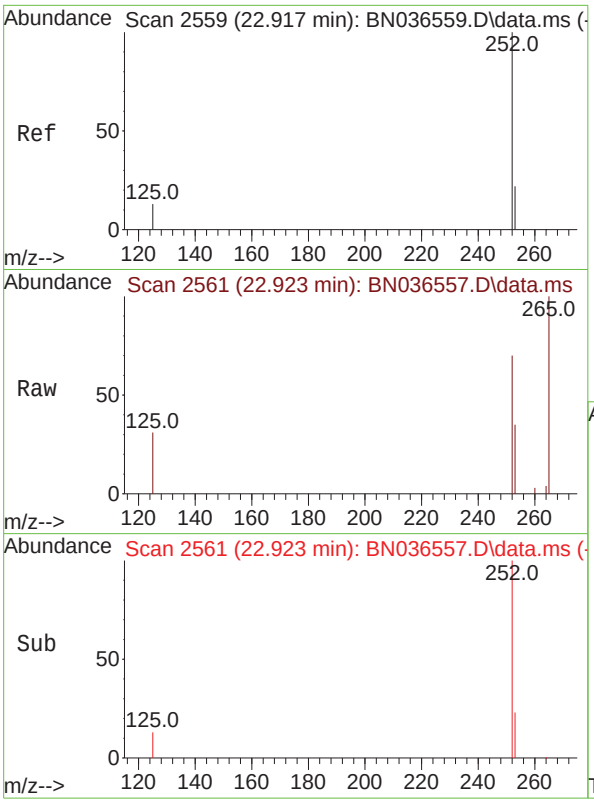


#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2545
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

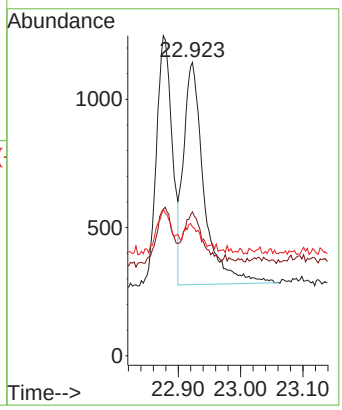
Tgt Ion:252 Resp: 195

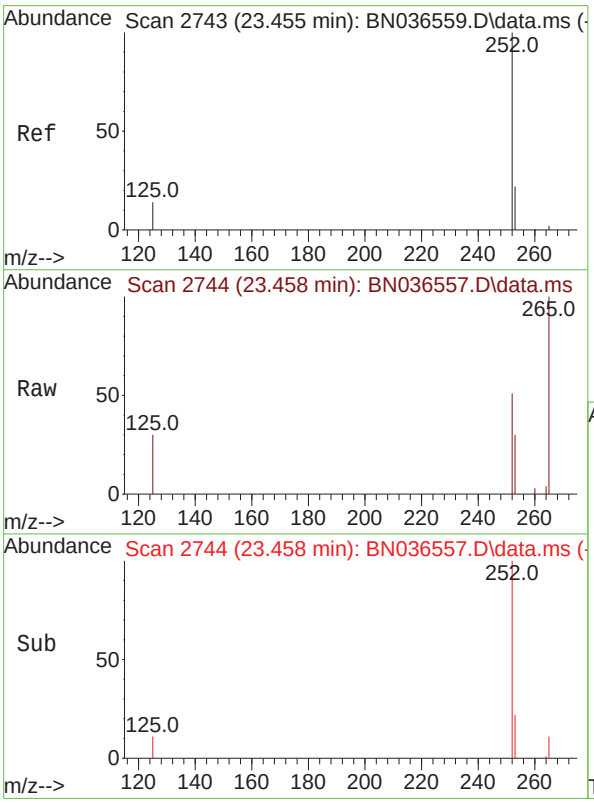
Ion	Ratio	Lower	Upper
252	100		
253	49.0	24.6	36.8#
125	43.9	17.8	26.8#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

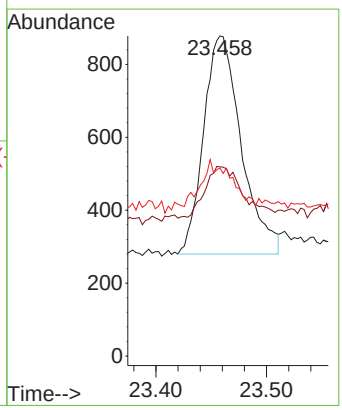


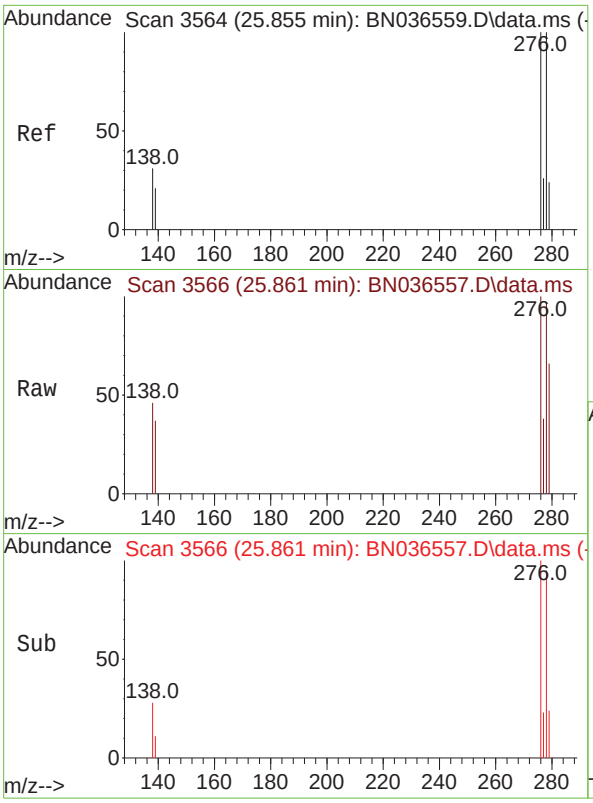


#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2744
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#

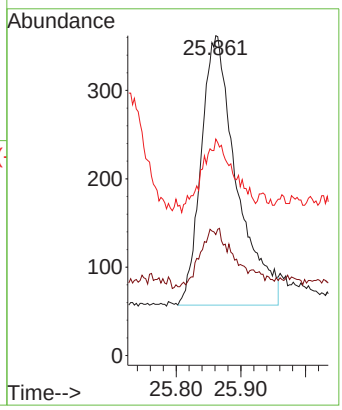




#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 116

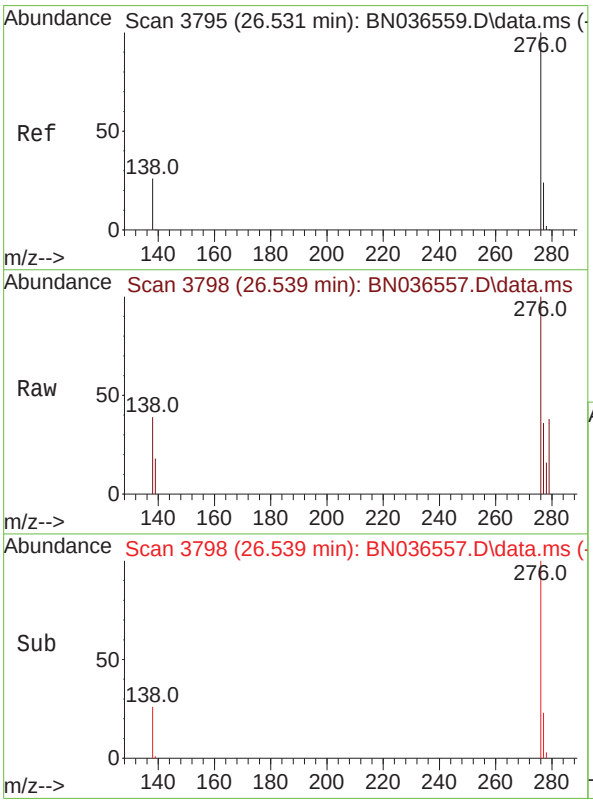
Ion	Ratio	Lower	Upper
278	100		
139	37.8	20.8	31.2#
279	67.7	28.8	43.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

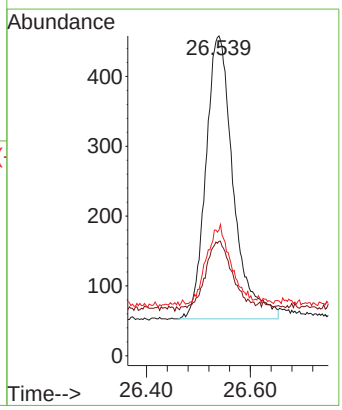
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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#



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

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

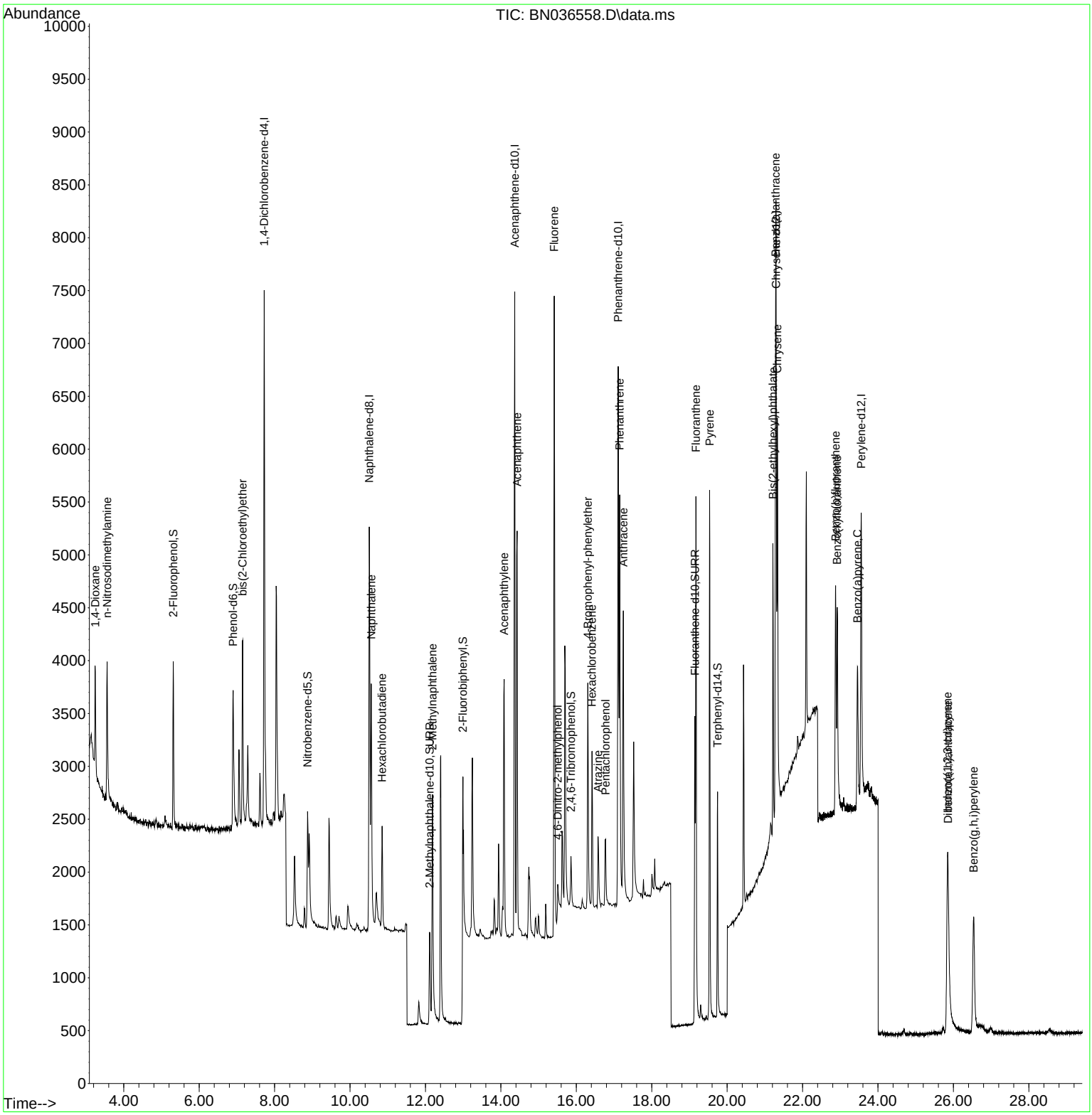
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

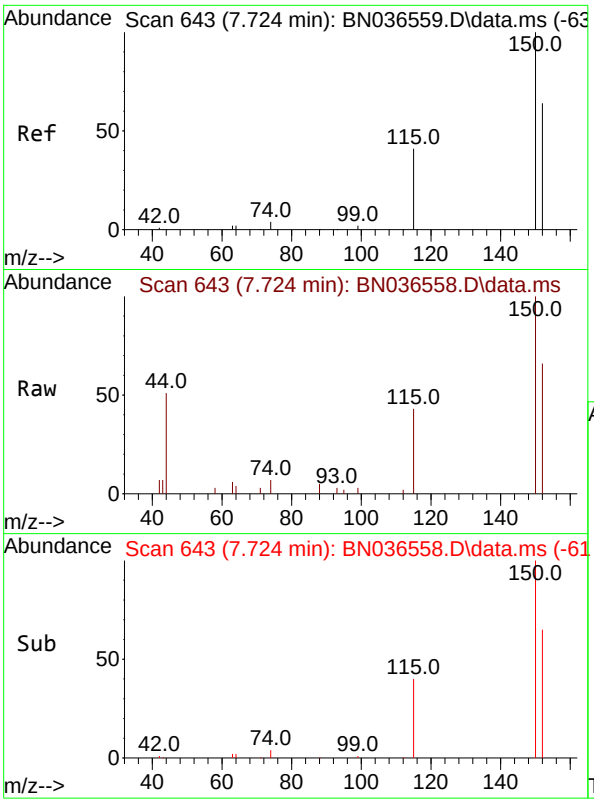
Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

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

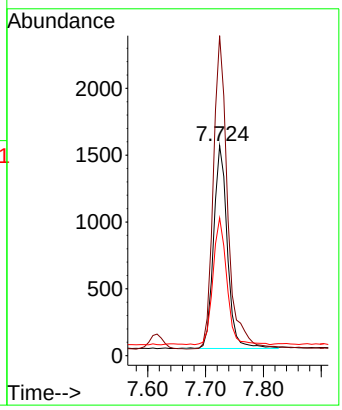




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 250

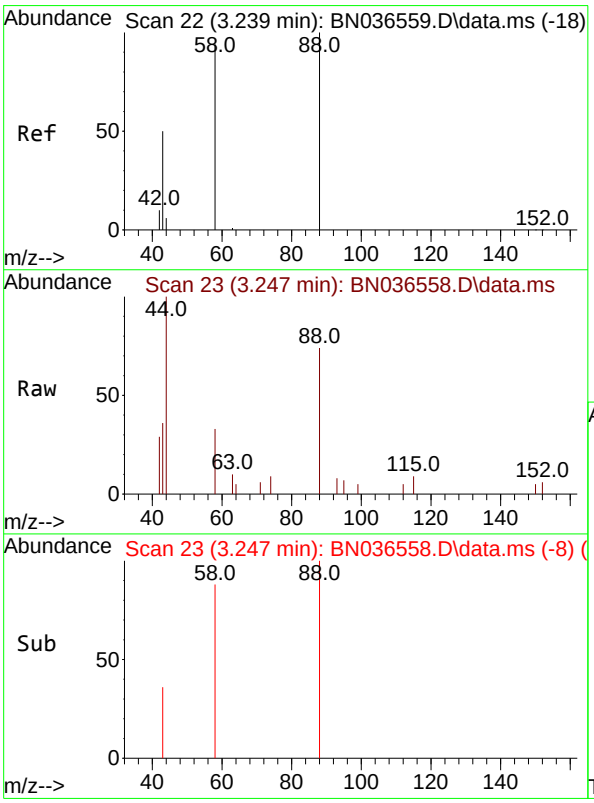
Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.7	185.5
115	65.5	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

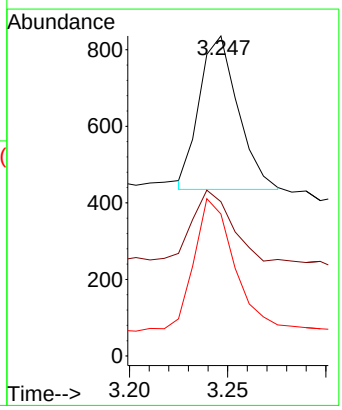
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

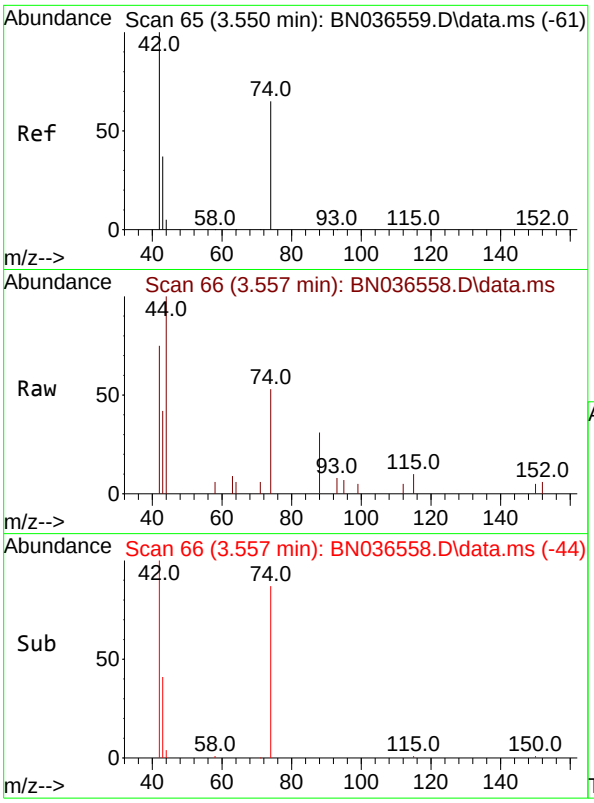


#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

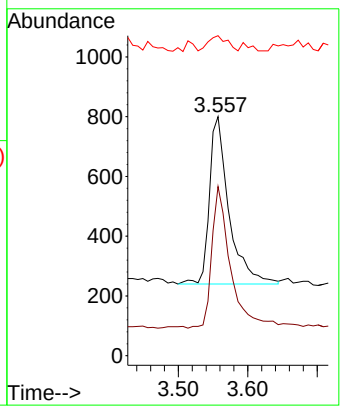




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 42 Resp: 109

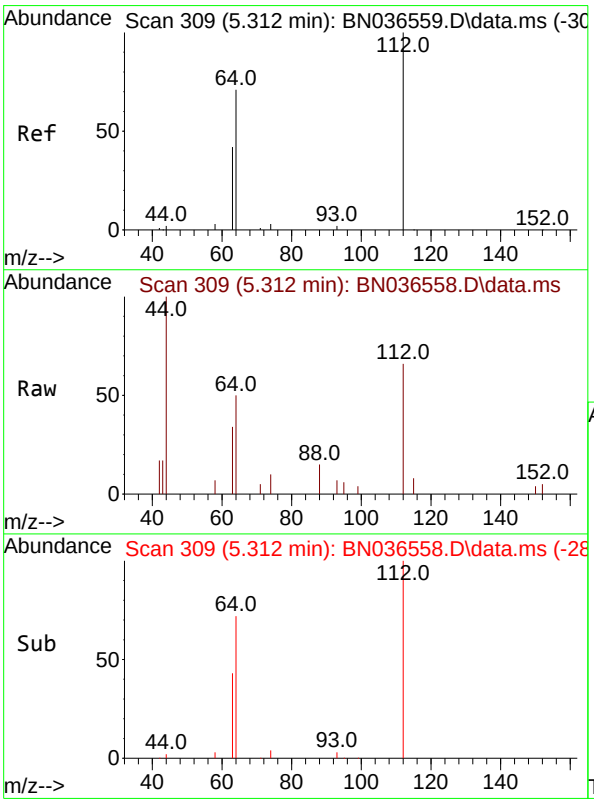
Ion	Ratio	Lower	Upper
42	100		
74	83.2	60.6	90.8
44	8.5	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

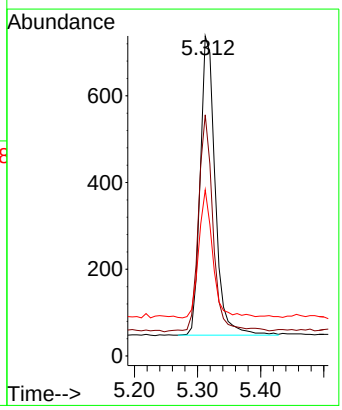
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

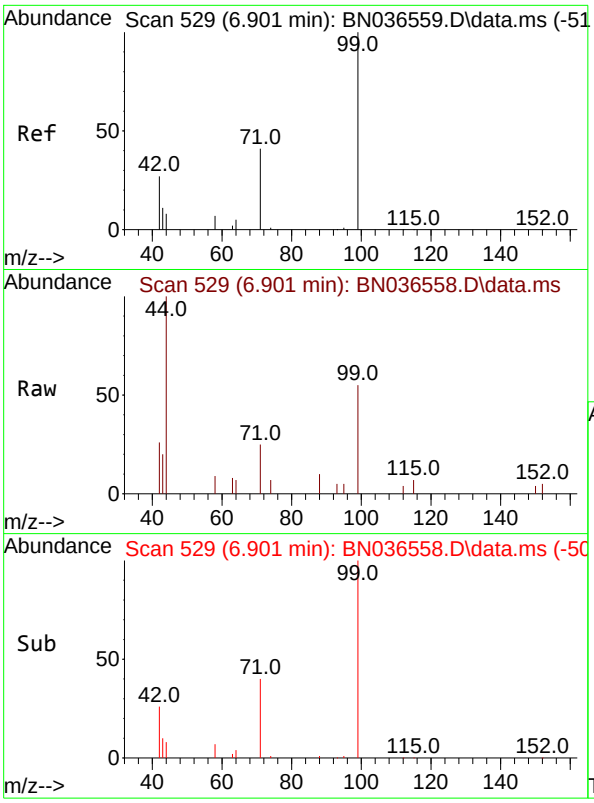


#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

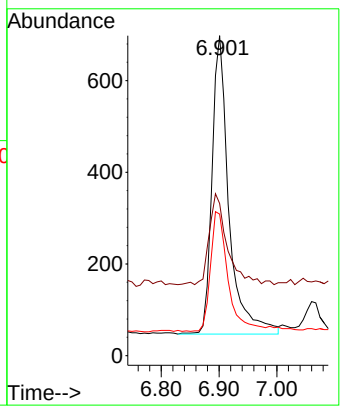




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 99 Resp: 132

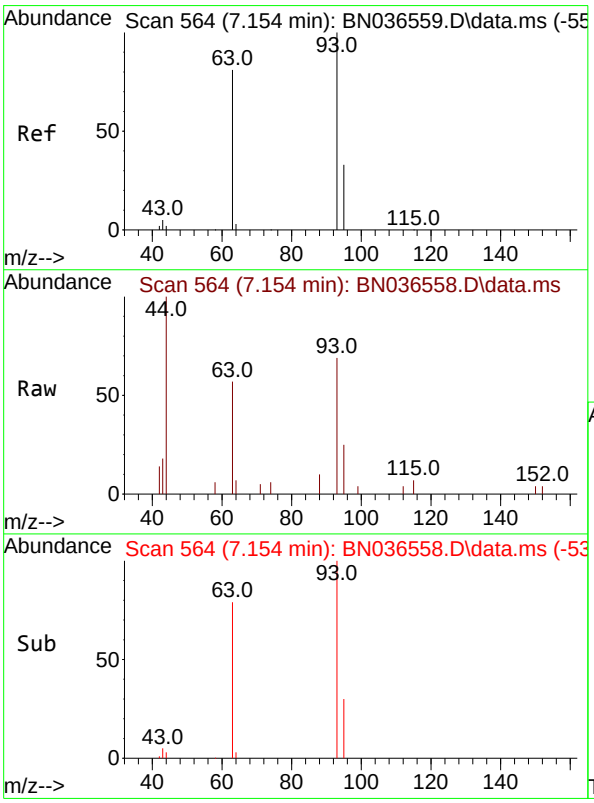
Ion	Ratio	Lower	Upper
99	100		
42	32.7	26.5	39.7
71	41.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

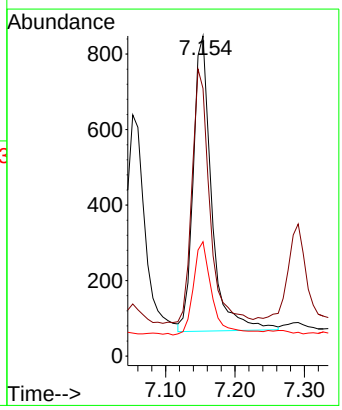
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

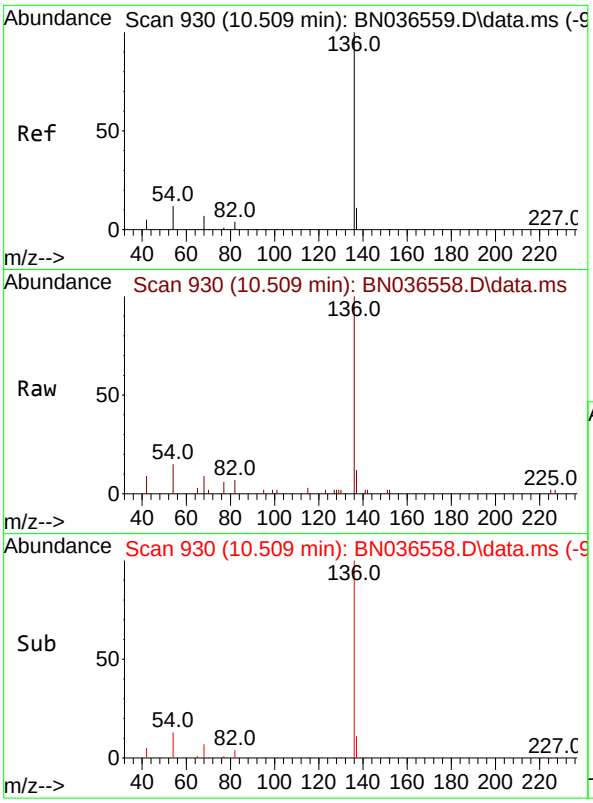


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

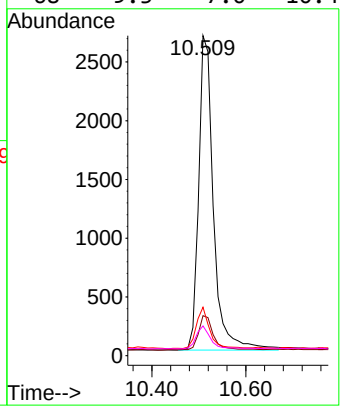




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:136 Resp: 584

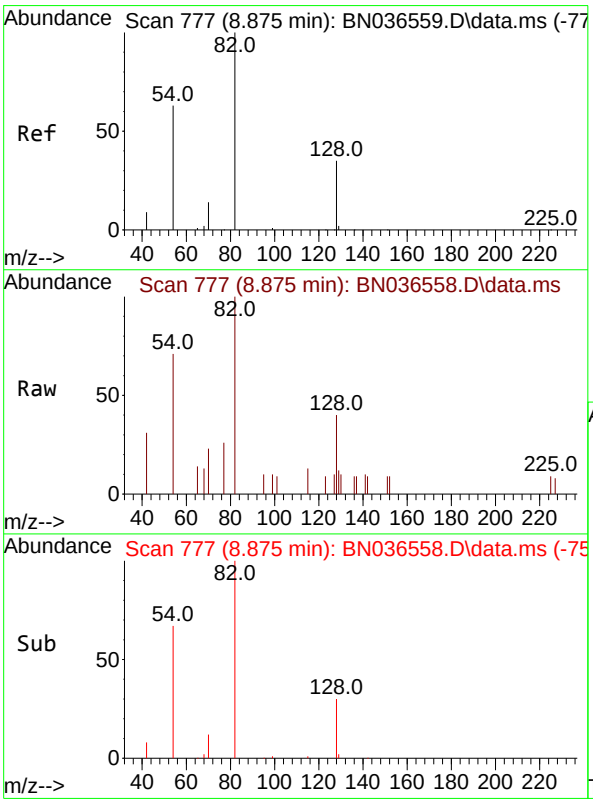
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	15.1	11.5	17.3
68	9.3	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

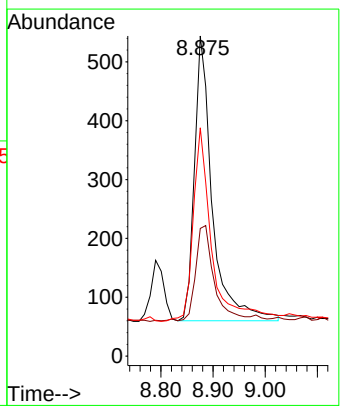
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

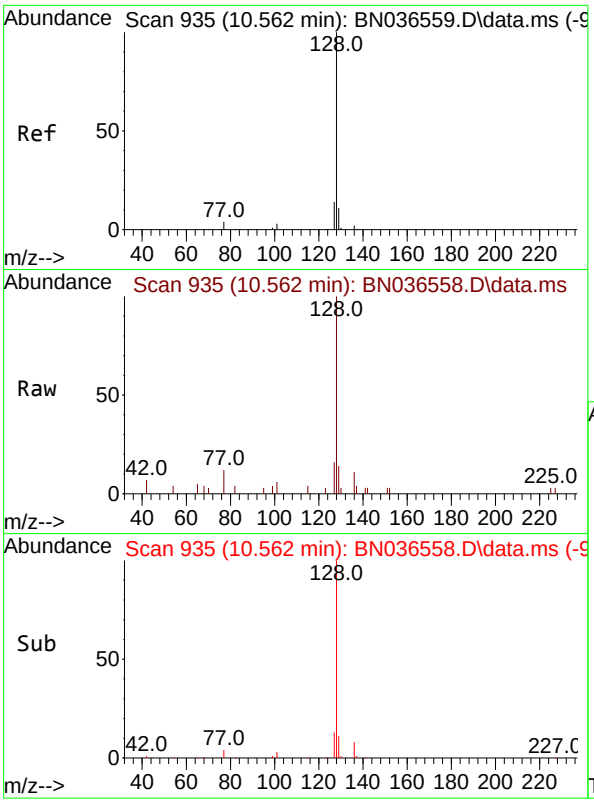


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

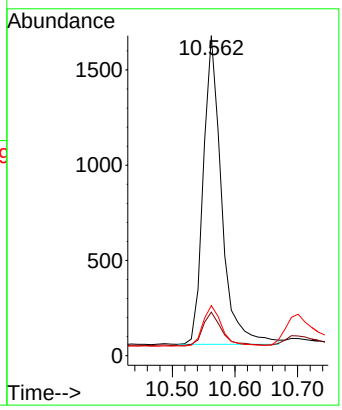




#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:128 Resp: 328

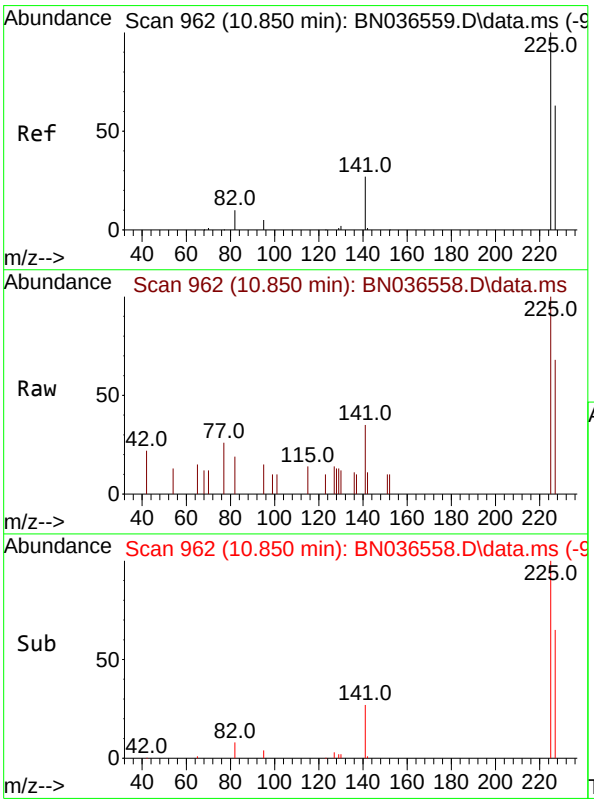
Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.8	14.6
127	15.7	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

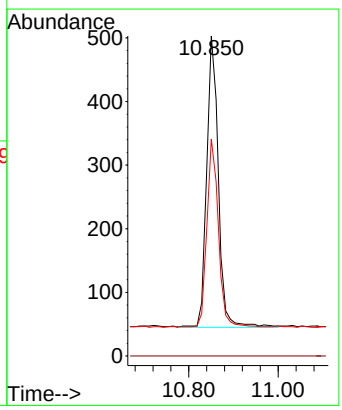
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

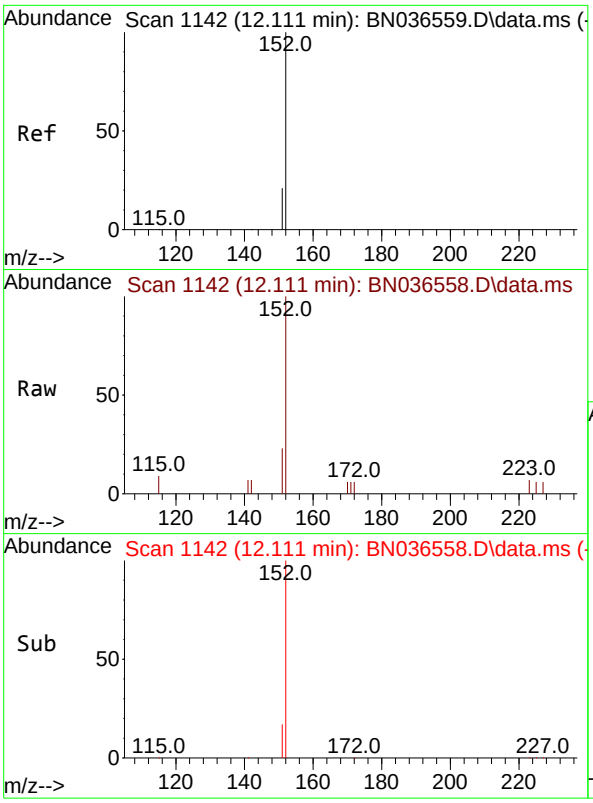


#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

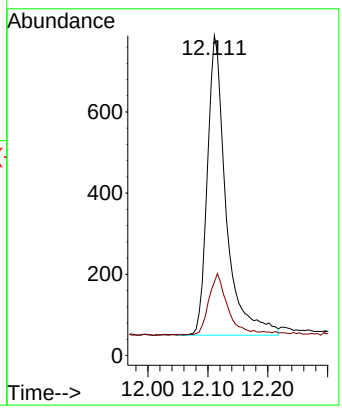




#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 160

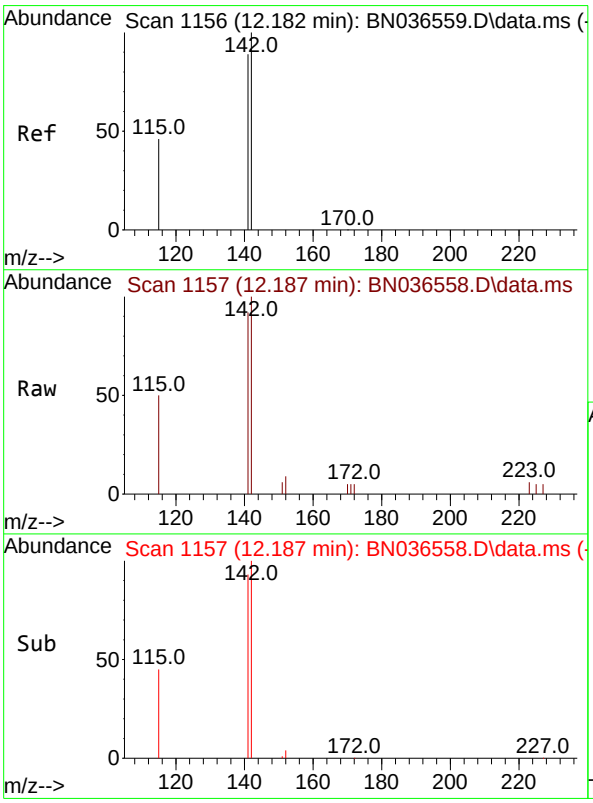
Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

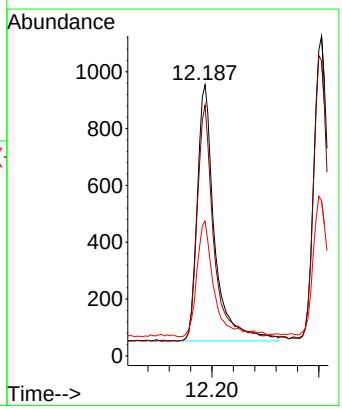
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

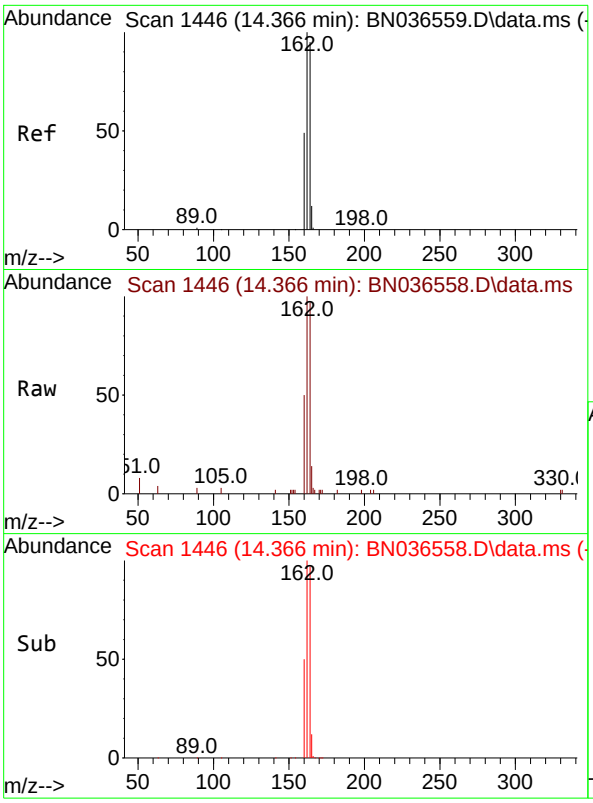


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

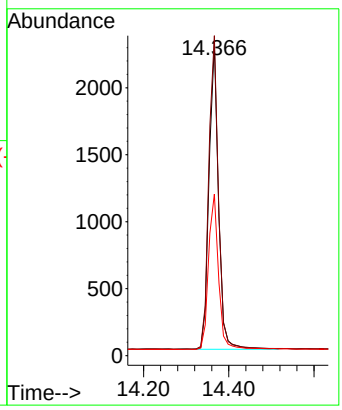




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:164 Resp: 351

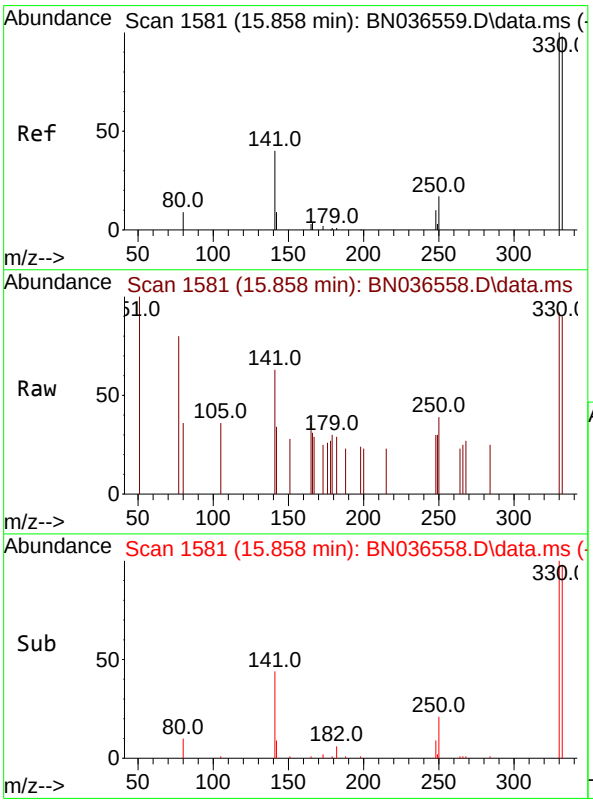
Ion	Ratio	Lower	Upper
164	100		
162	102.6	84.2	126.2
160	51.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

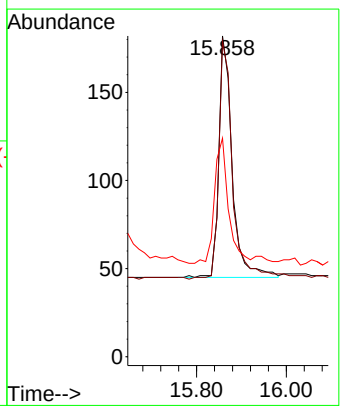
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

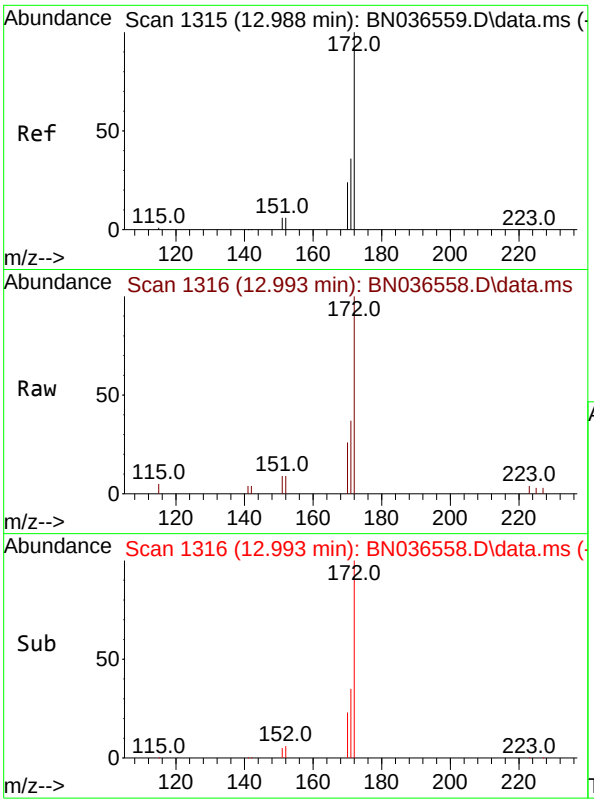


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

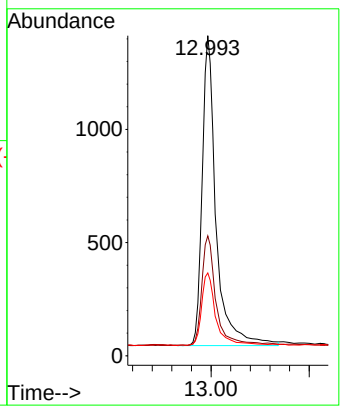




#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:172 Resp: 348

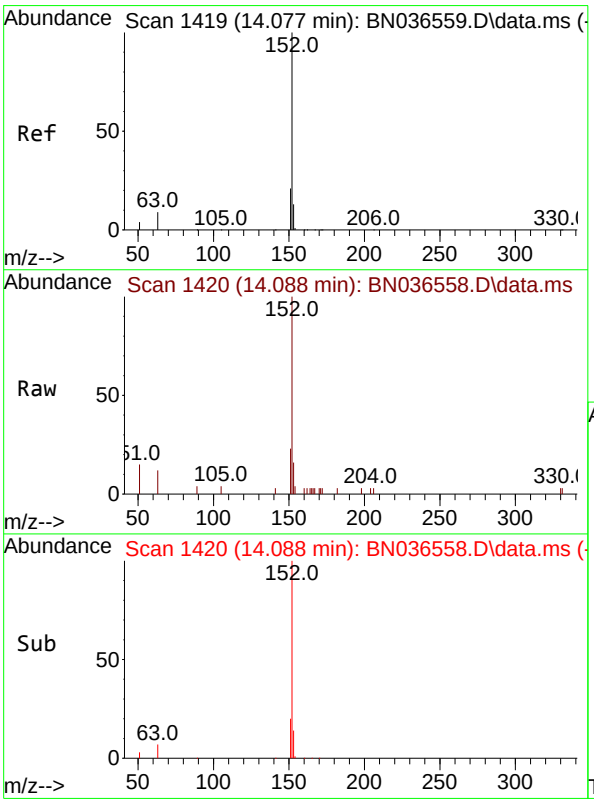
Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.9	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

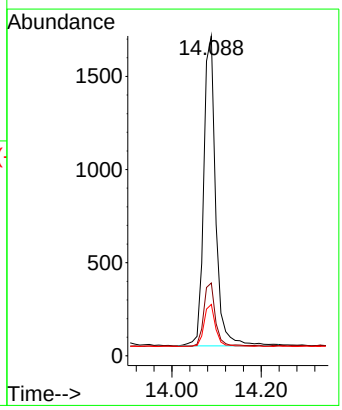
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

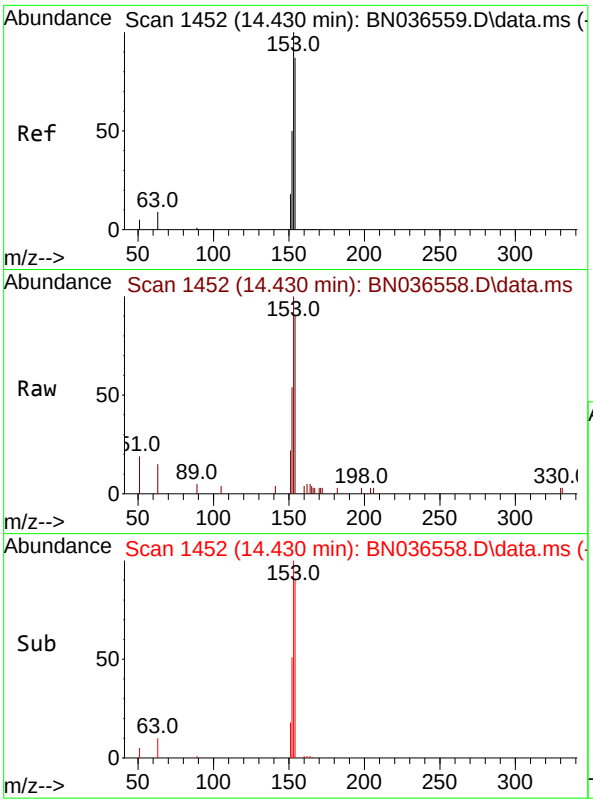


#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

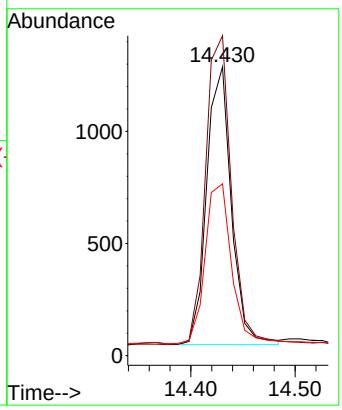




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:154 Resp: 203

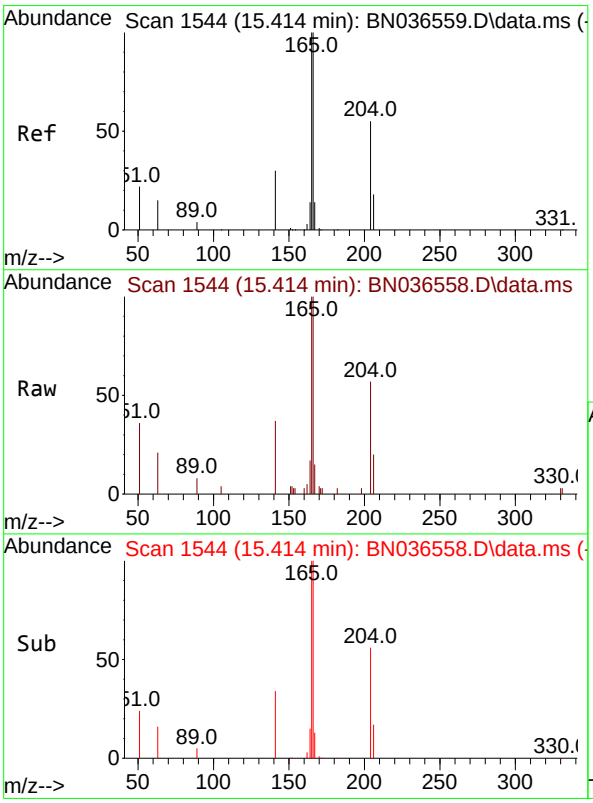
Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	63.1	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

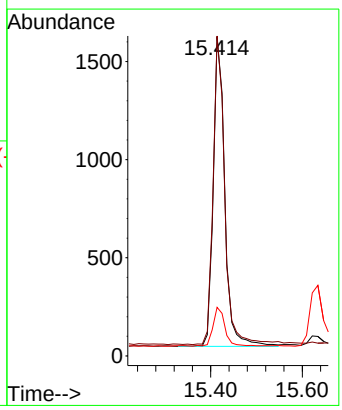
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

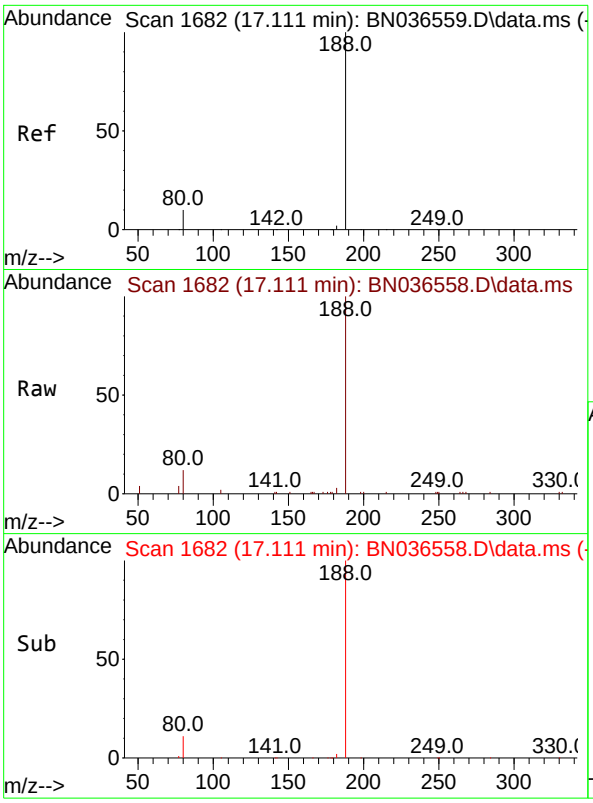


#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

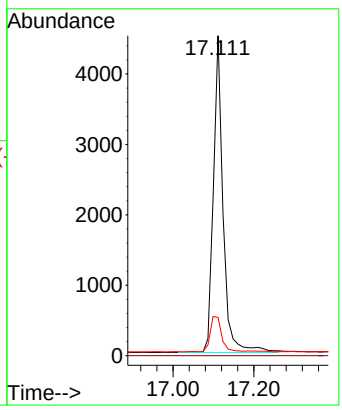




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:188 Resp: 750(

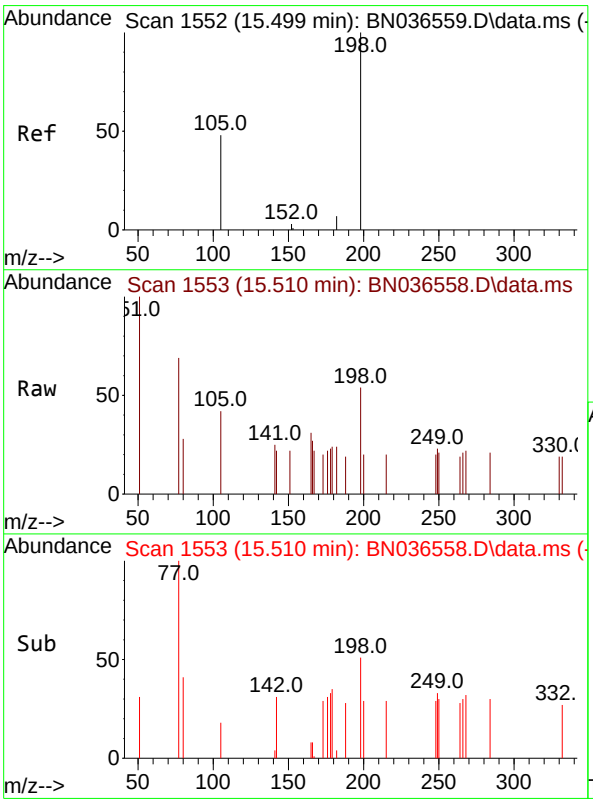
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

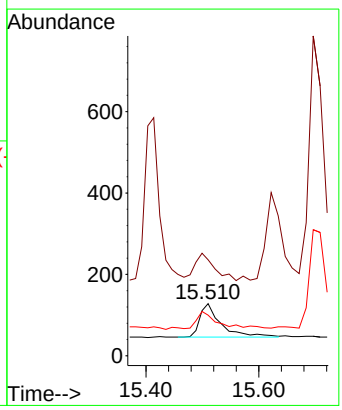
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

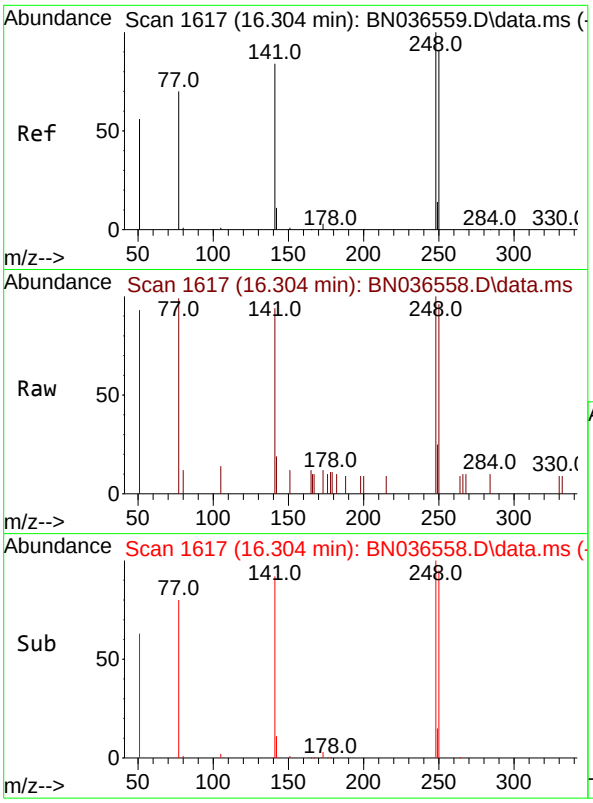


#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

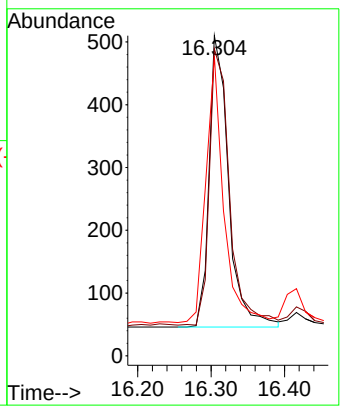
Tgt Ion:248 Resp: 85

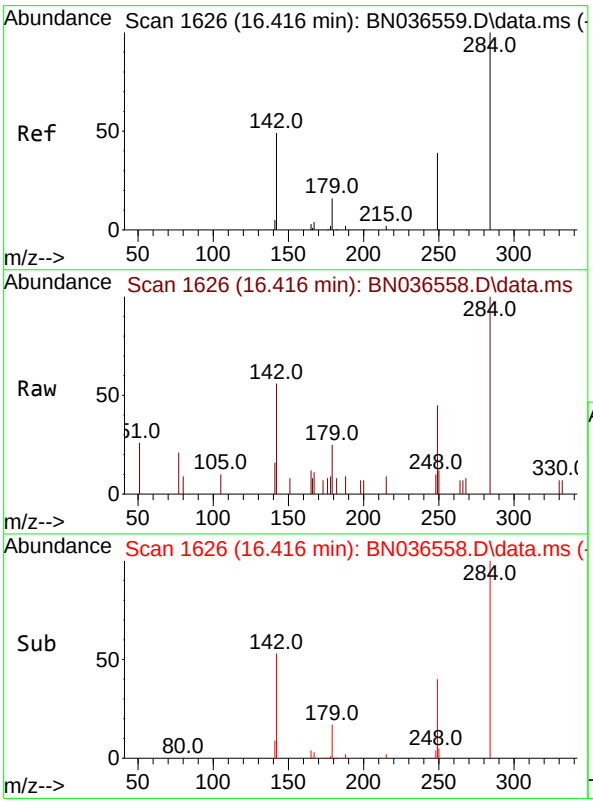
Ion	Ratio	Lower	Upper
248	100		
250	95.9	73.0	109.6
141	93.7	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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

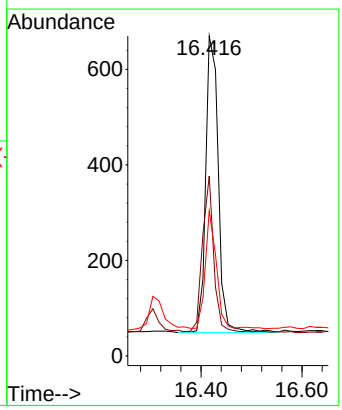


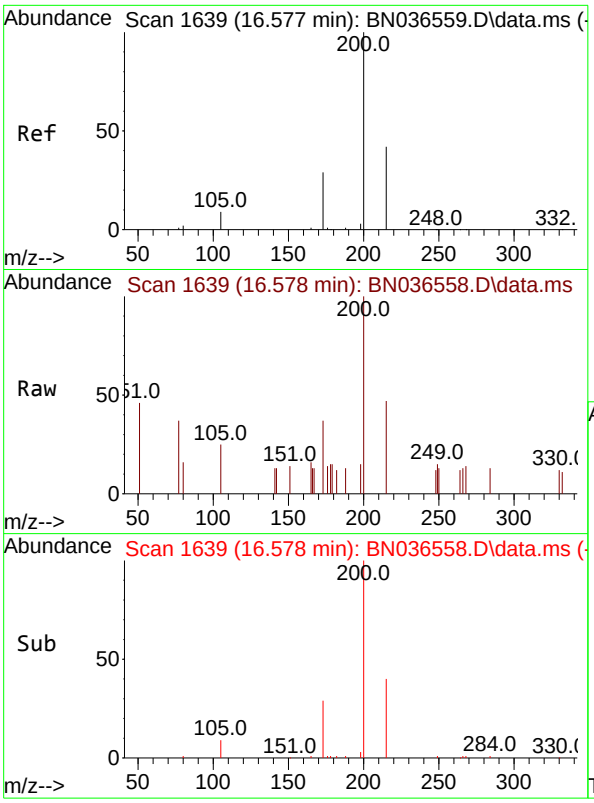


#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

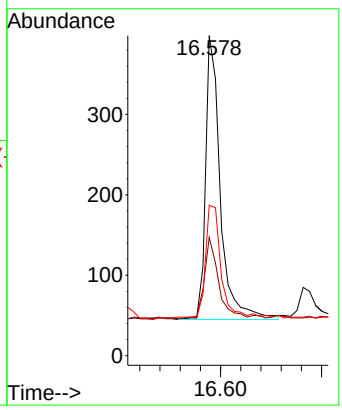




#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:200 Resp: 71(

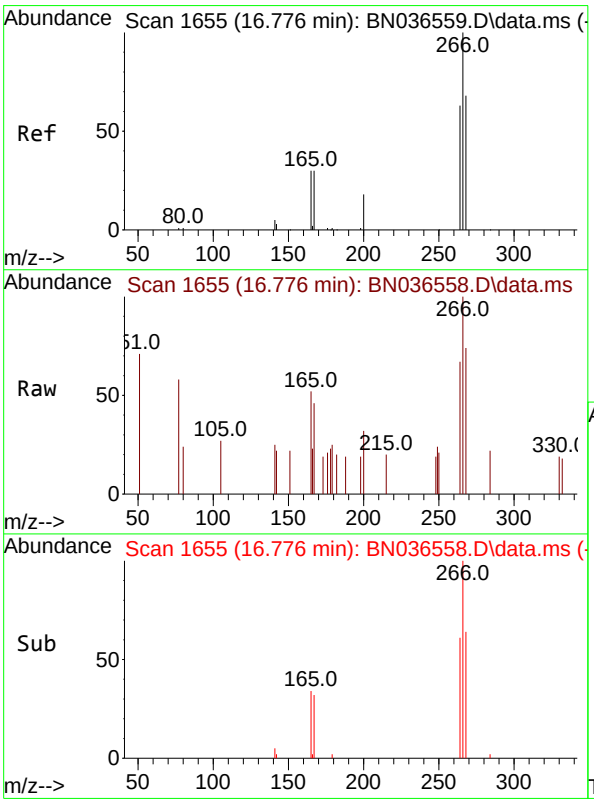
Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.0	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

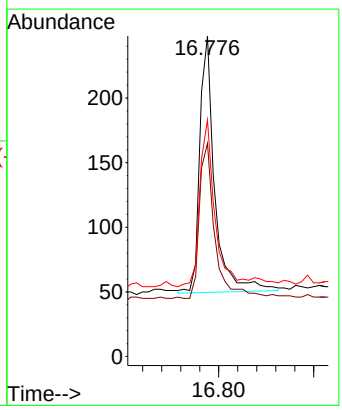
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

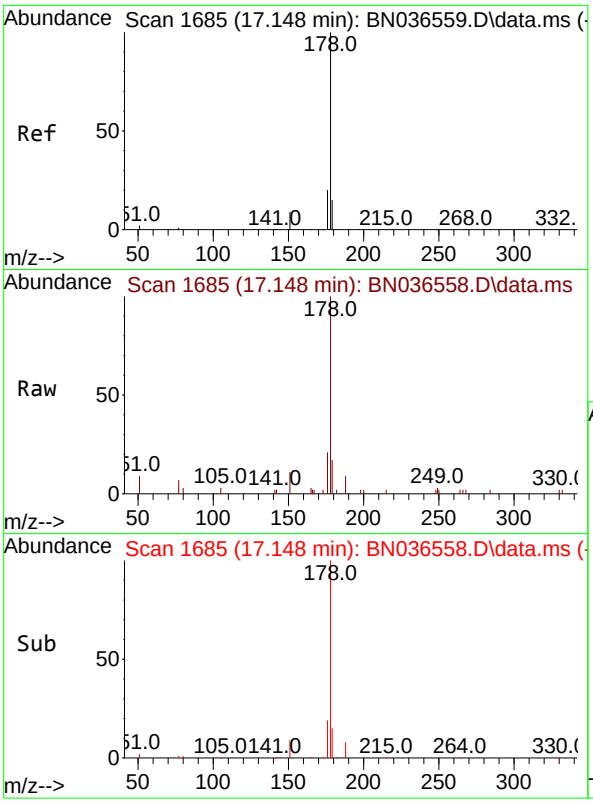


#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

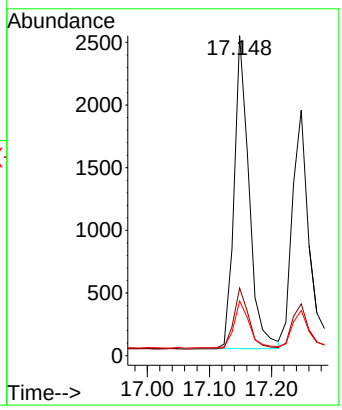




#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 417

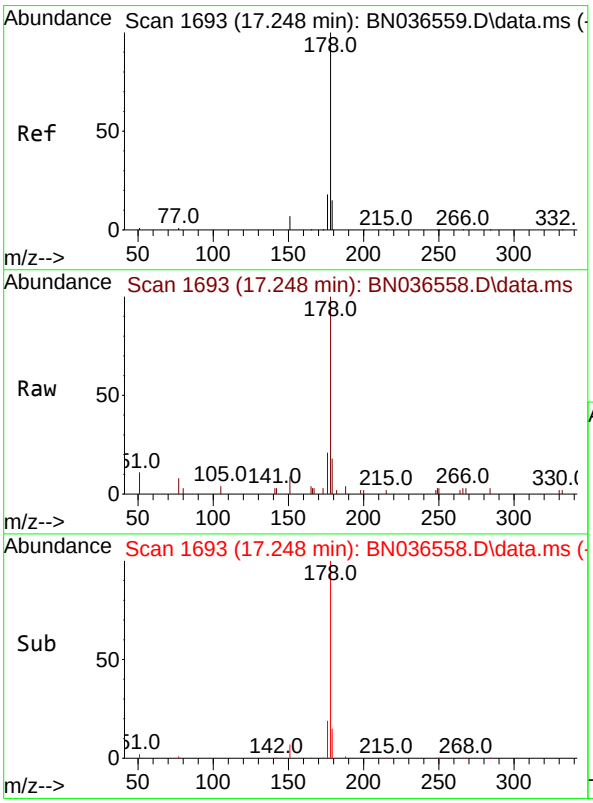
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

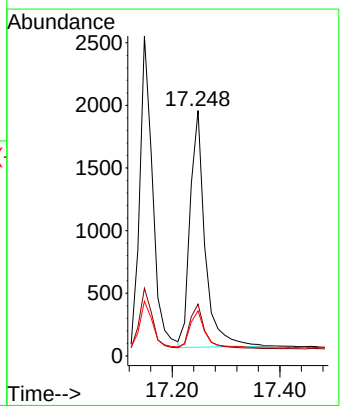
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

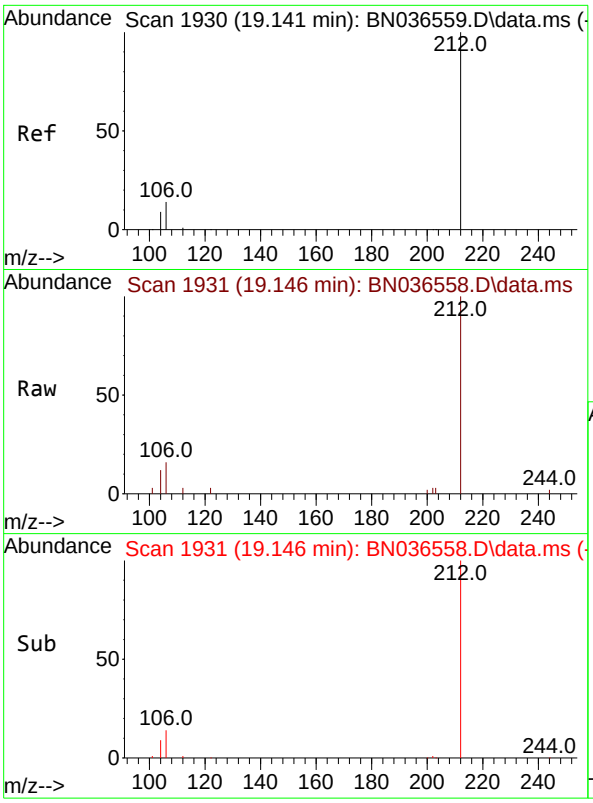


#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

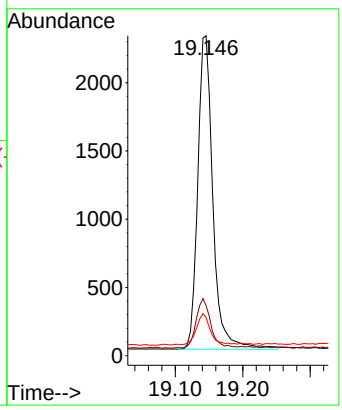
Tgt Ion:212 Resp: 358

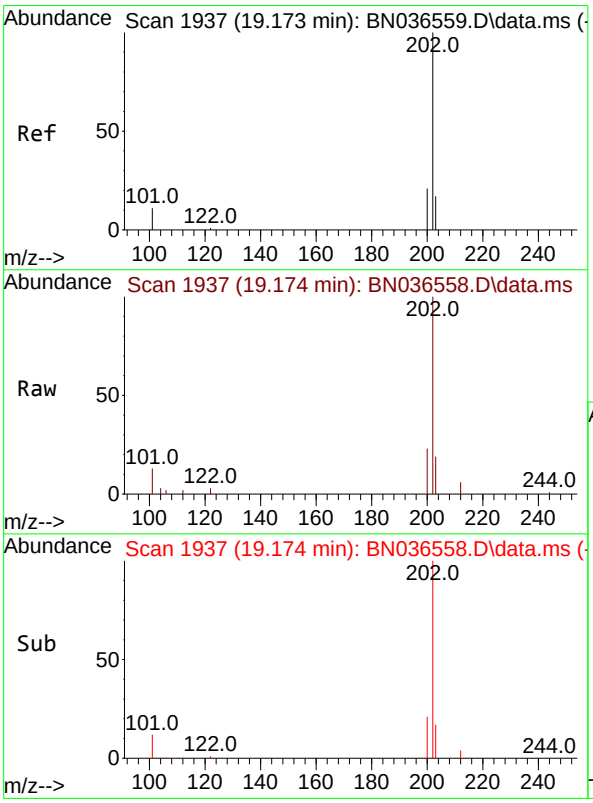
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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

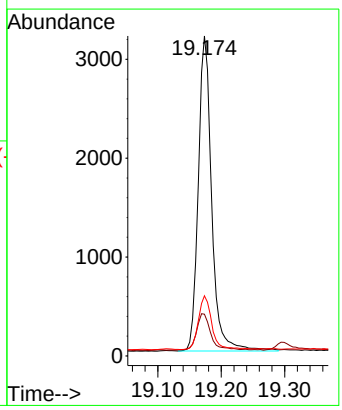


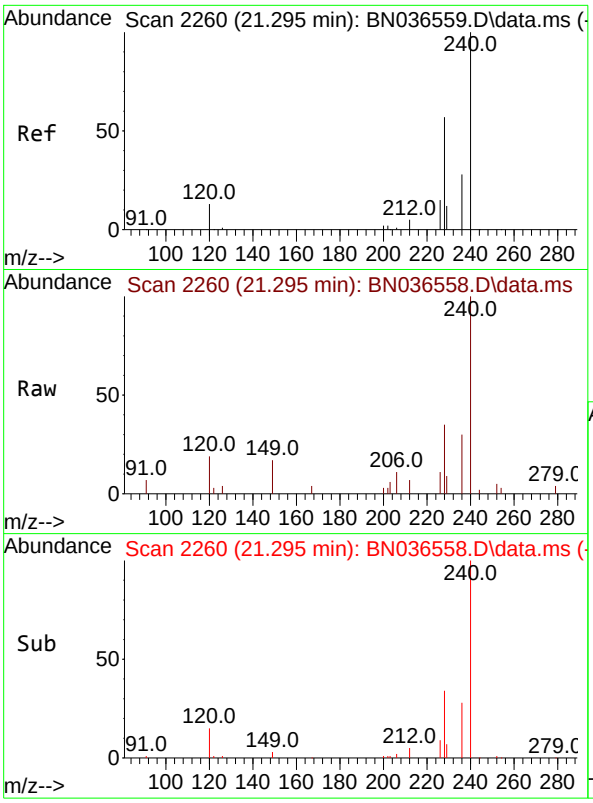


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

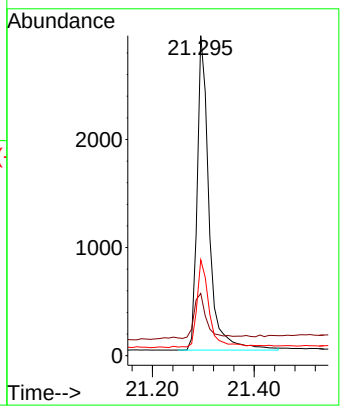




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:240 Resp: 473

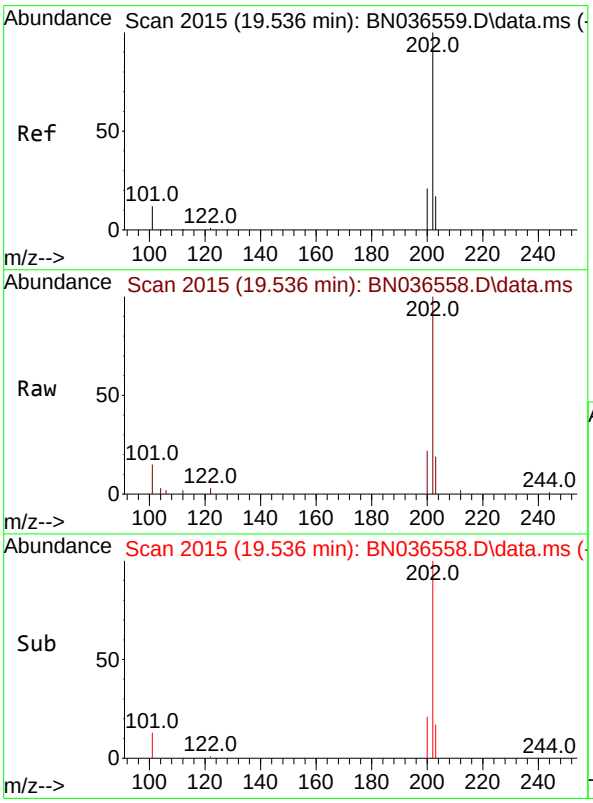
Ion	Ratio	Lower	Upper
240	100		
120	19.5	14.6	22.0
236	29.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

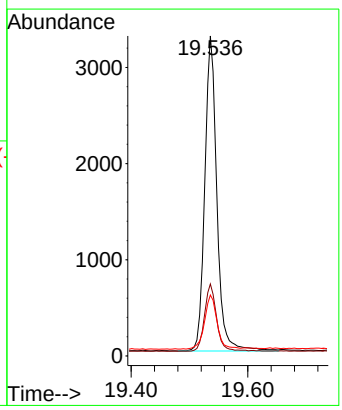
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

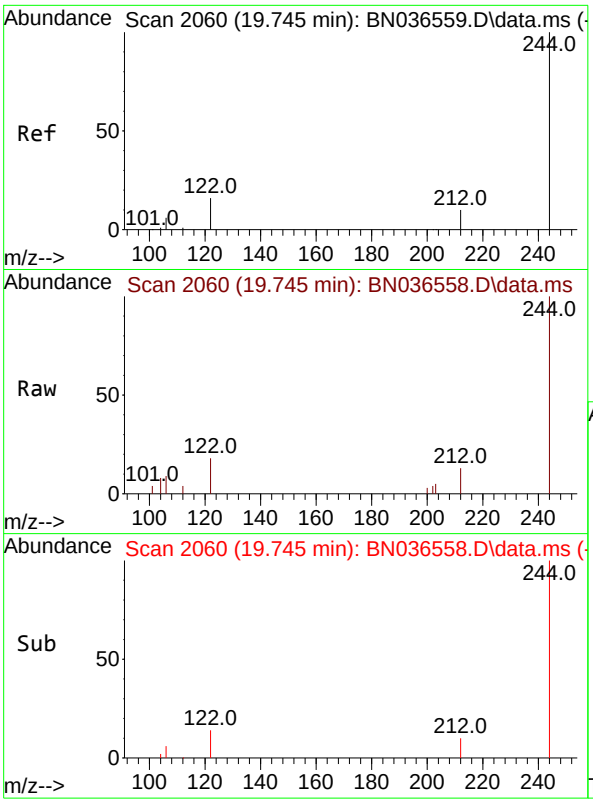


#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

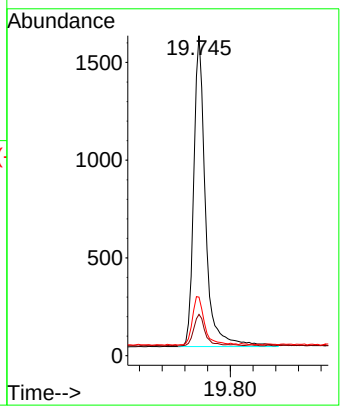




#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:244 Resp: 228

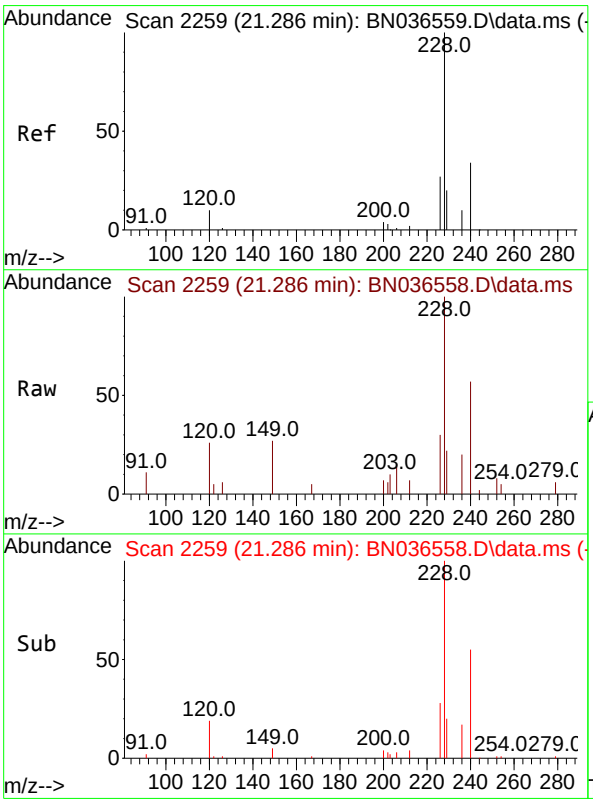
Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

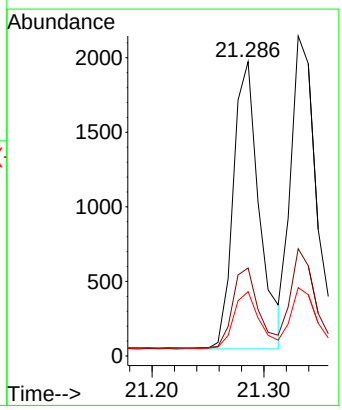
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

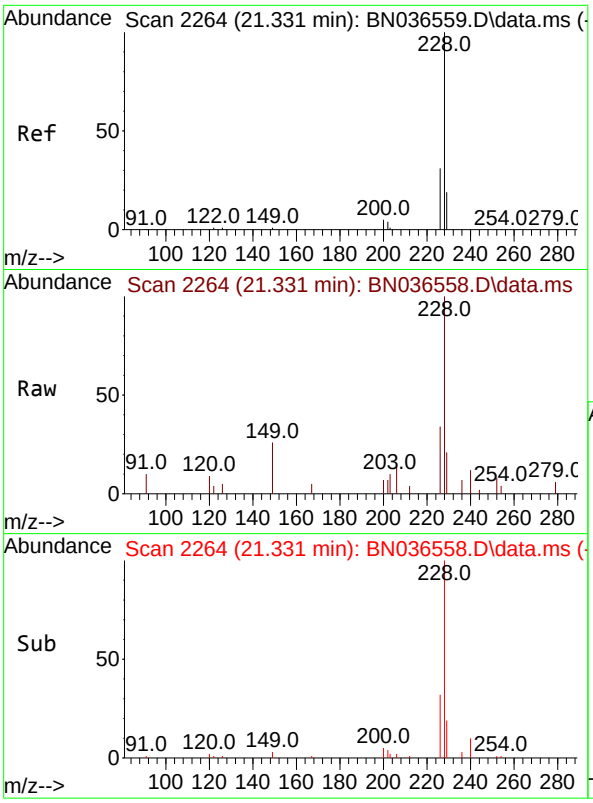


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

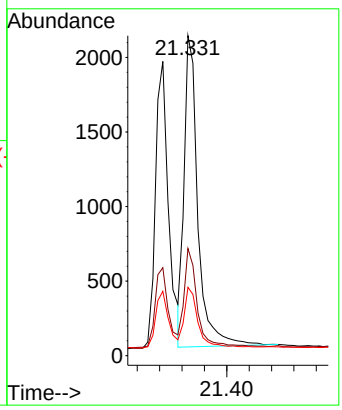




#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 356

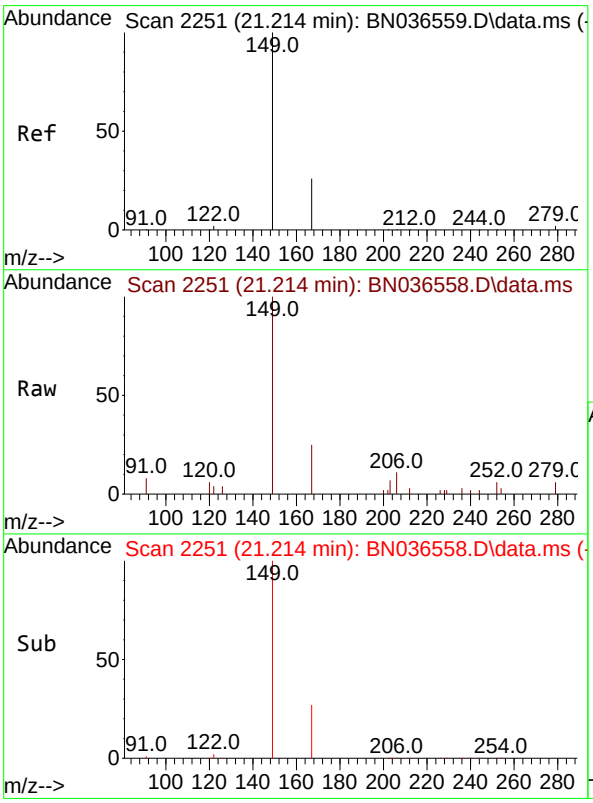
Ion	Ratio	Lower	Upper
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

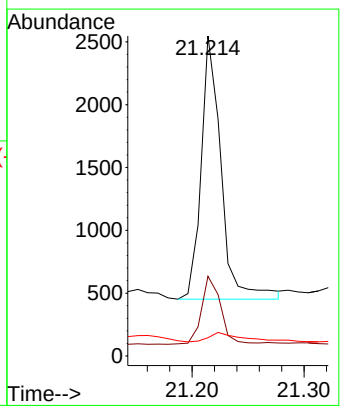
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

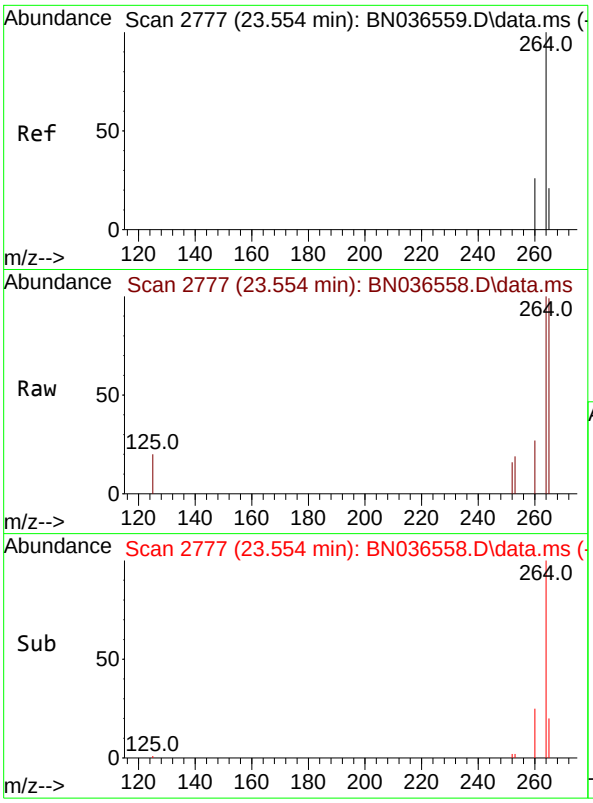


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#

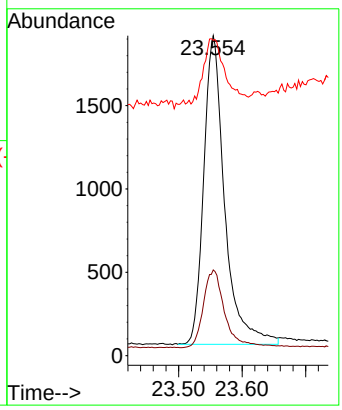




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:264 Resp: 424

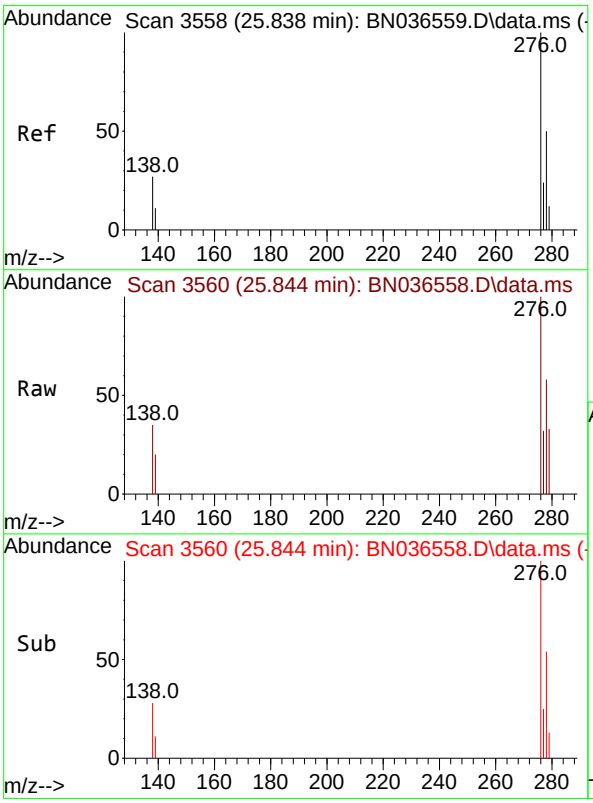
Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	98.5	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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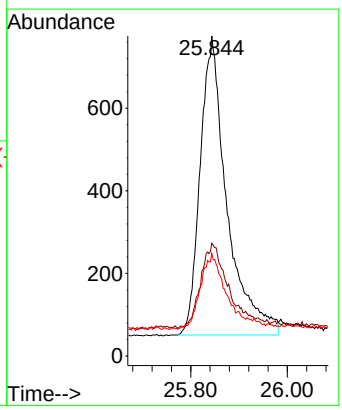
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

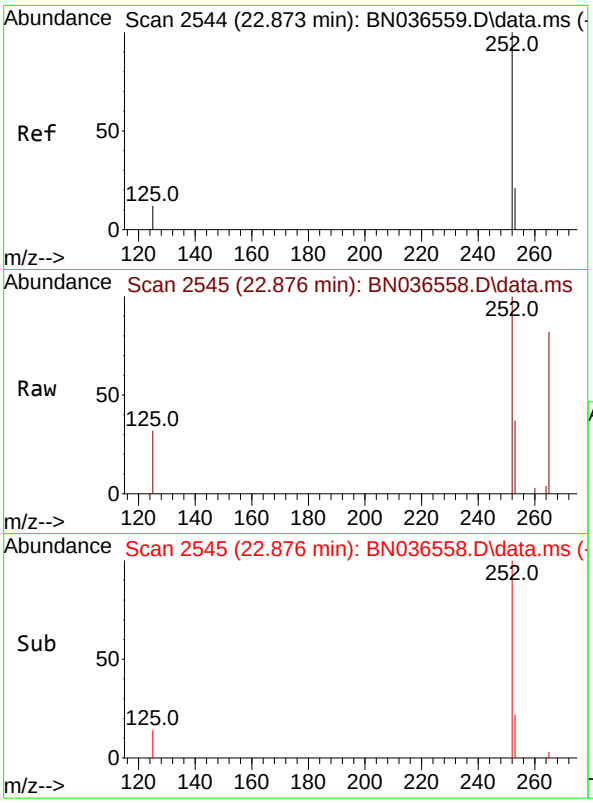


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

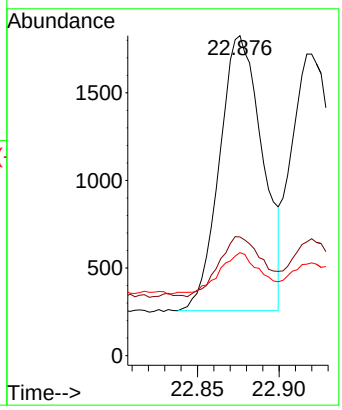
Tgt Ion:252 Resp: 288

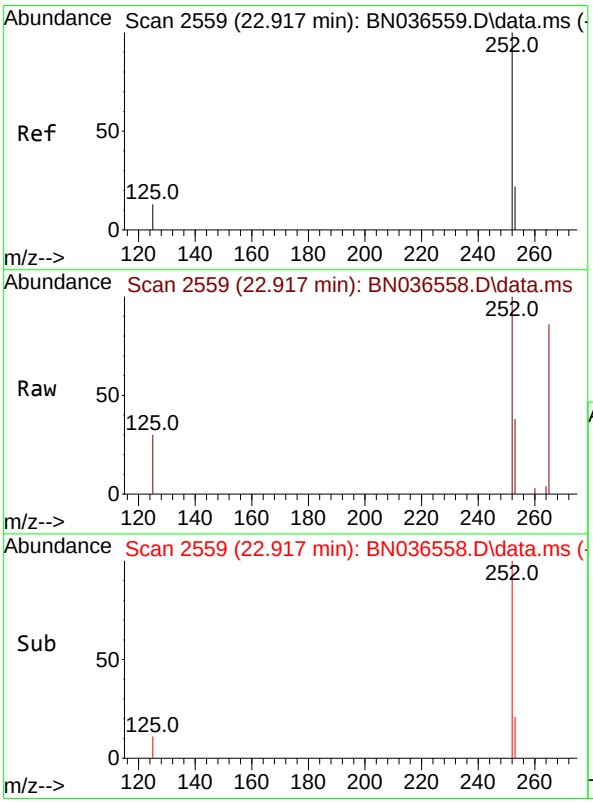
Ion	Ratio	Lower	Upper
252	100		
253	37.1	23.9	35.9#
125	32.2	17.4	26.2#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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

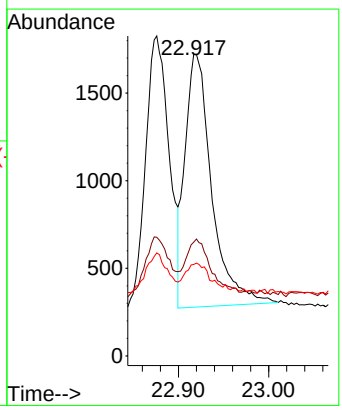


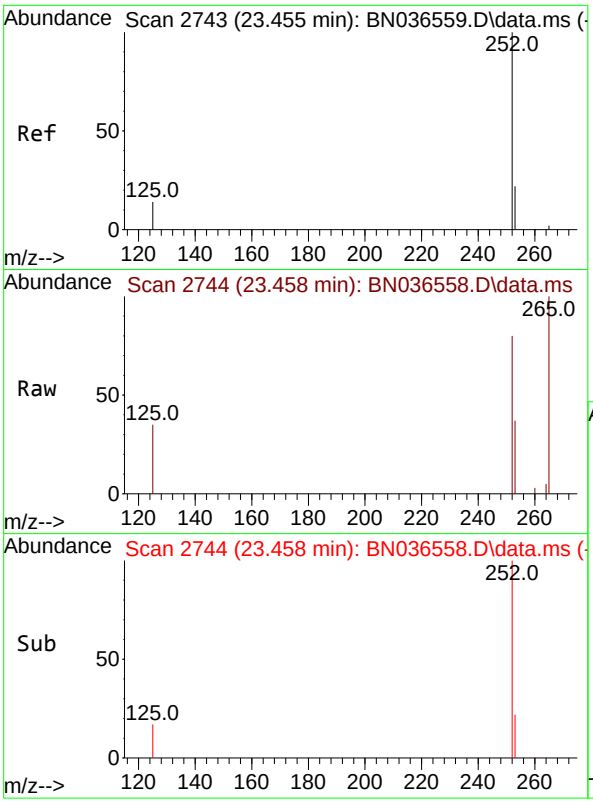


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#

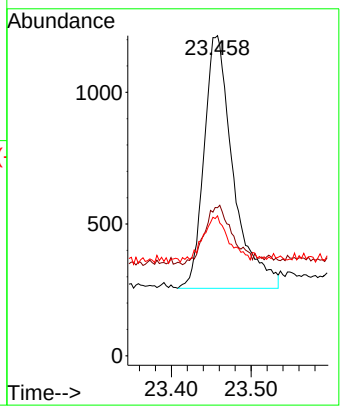




#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 244

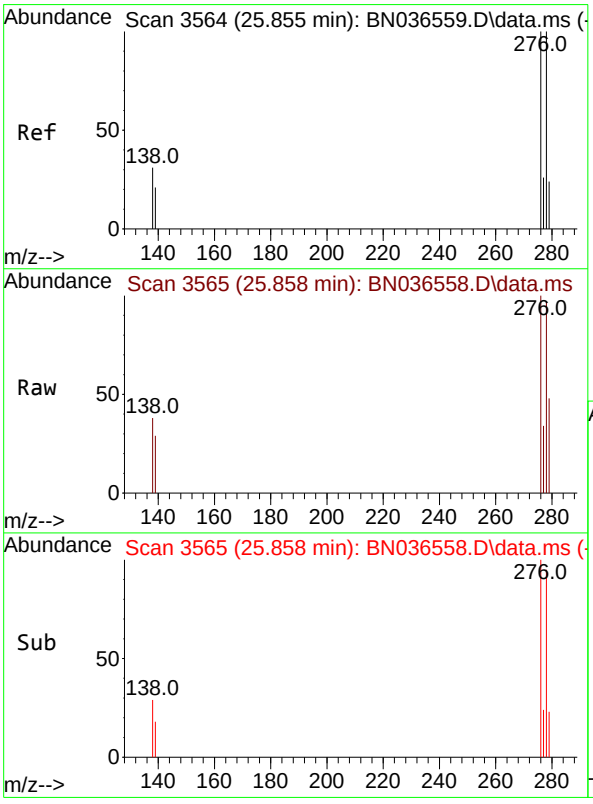
Ion	Ratio	Lower	Upper
252	100		
253	46.3	27.8	41.8#
125	43.7	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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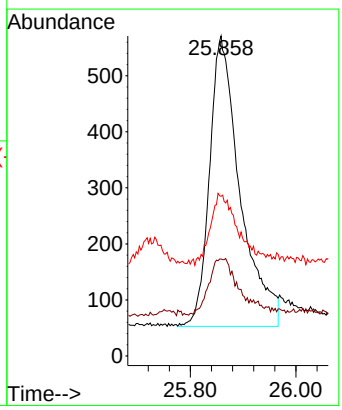
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

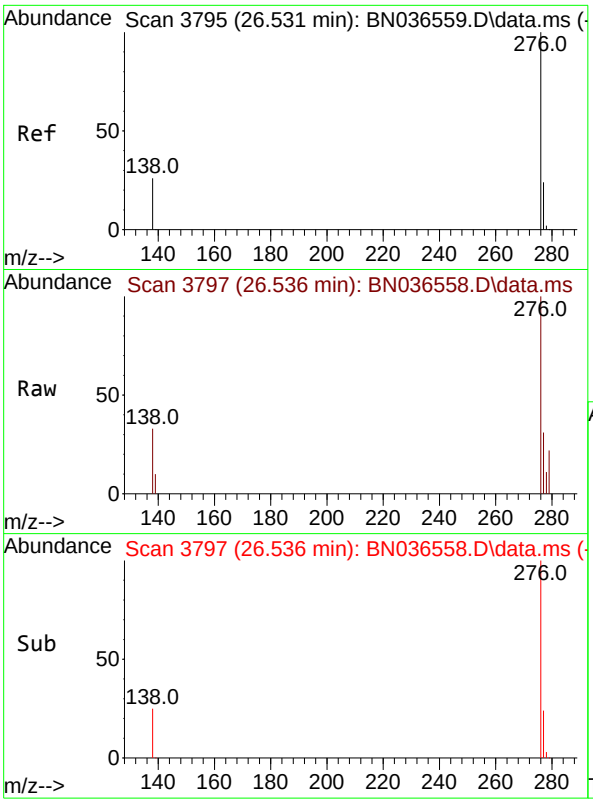


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#

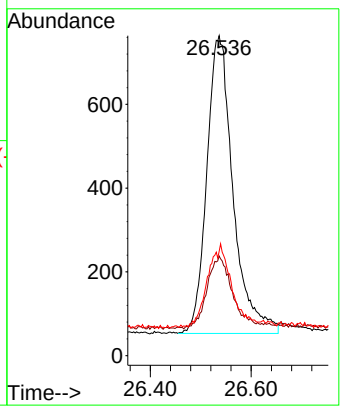




#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

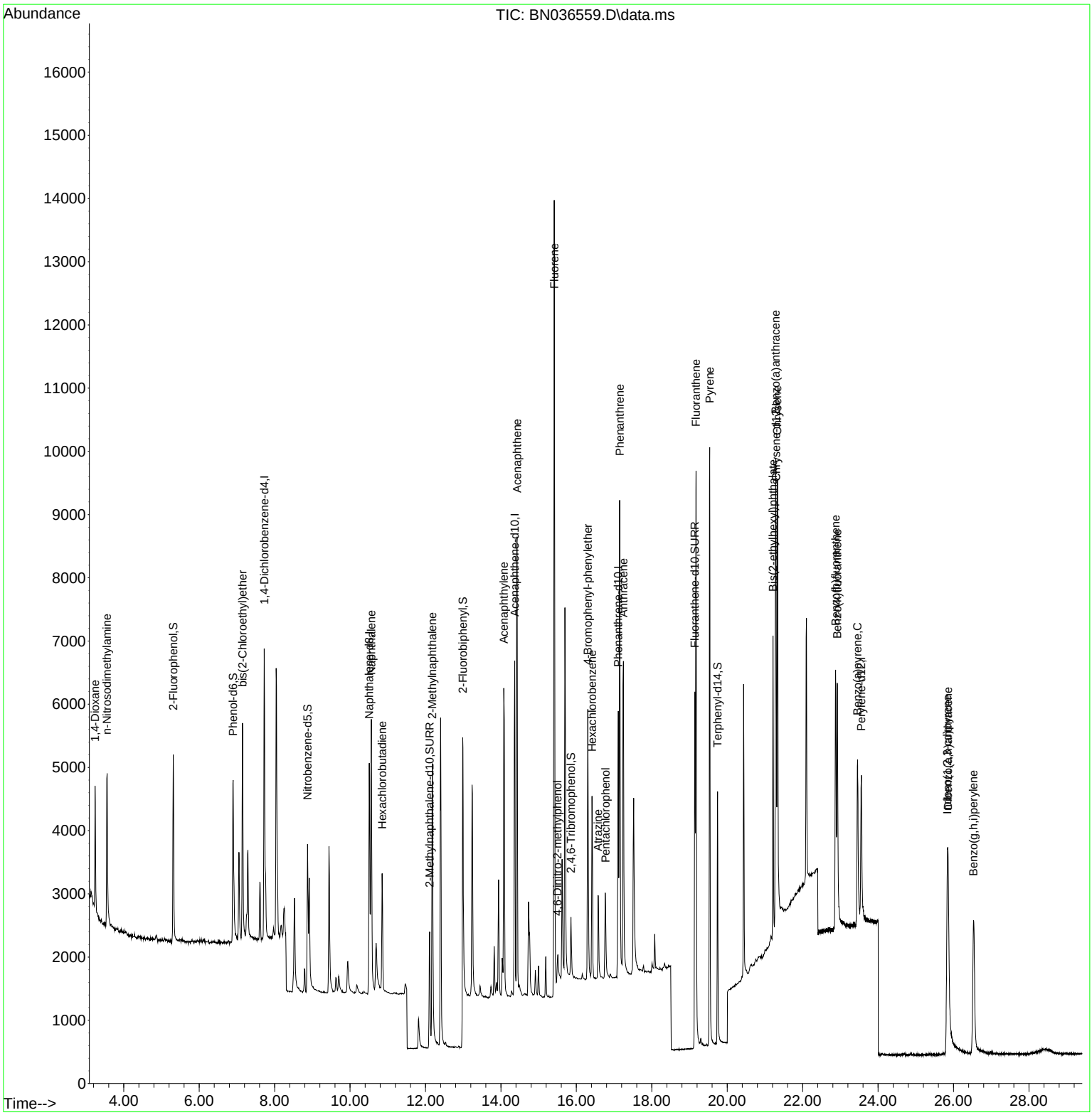
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng		0.00
29) Chrysene-d12	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

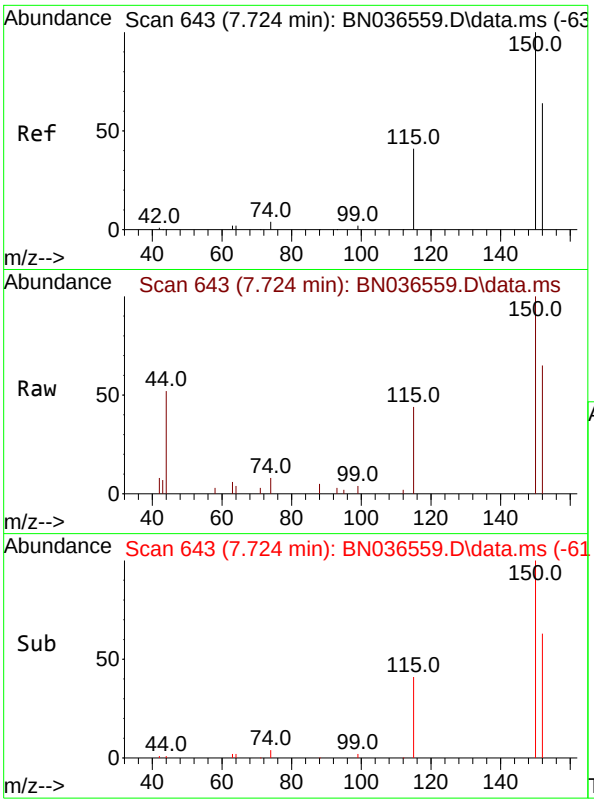
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



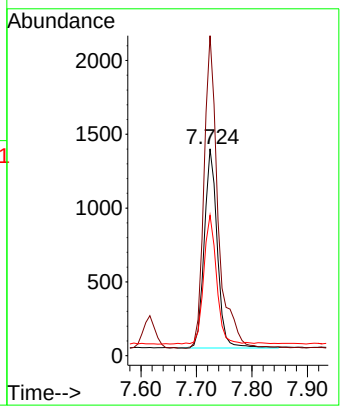


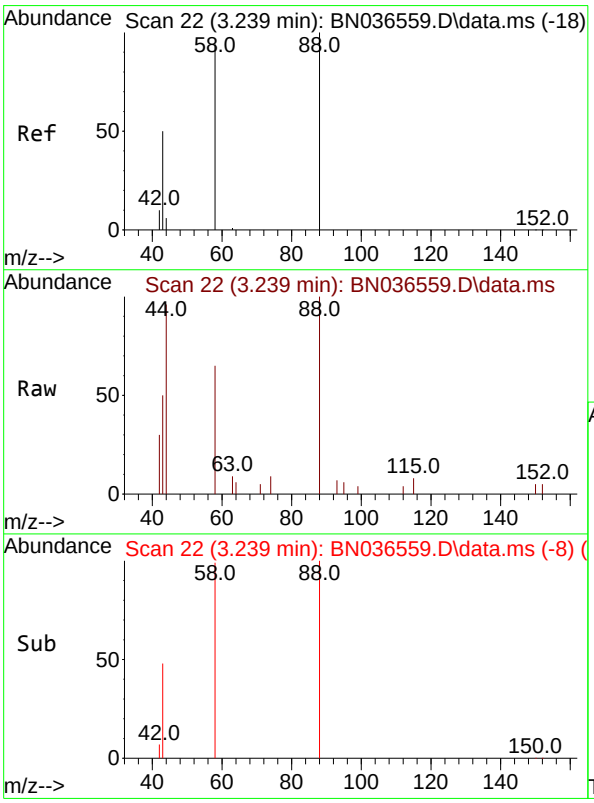
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

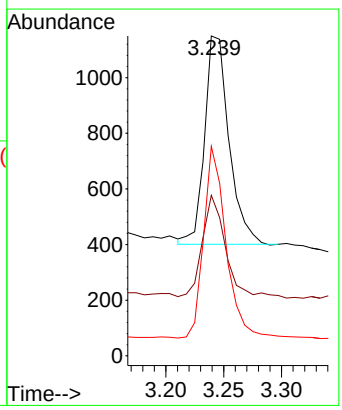


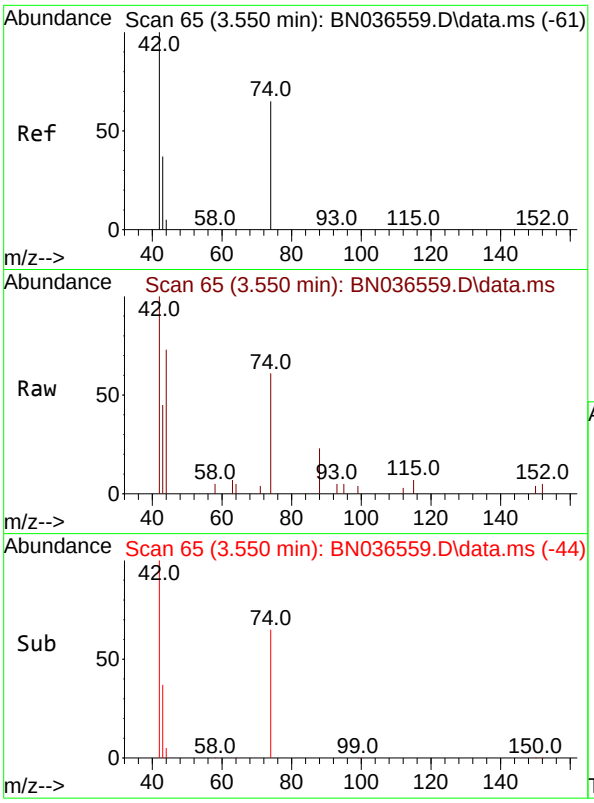


#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



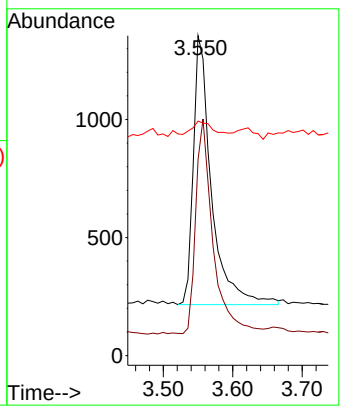


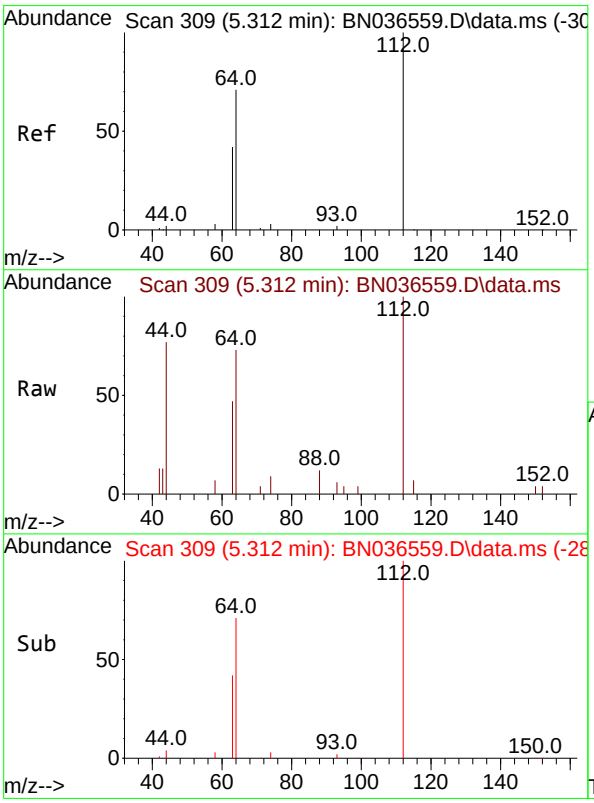
#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

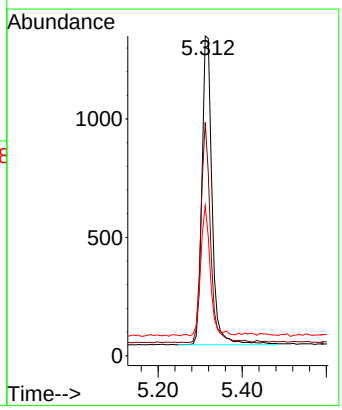


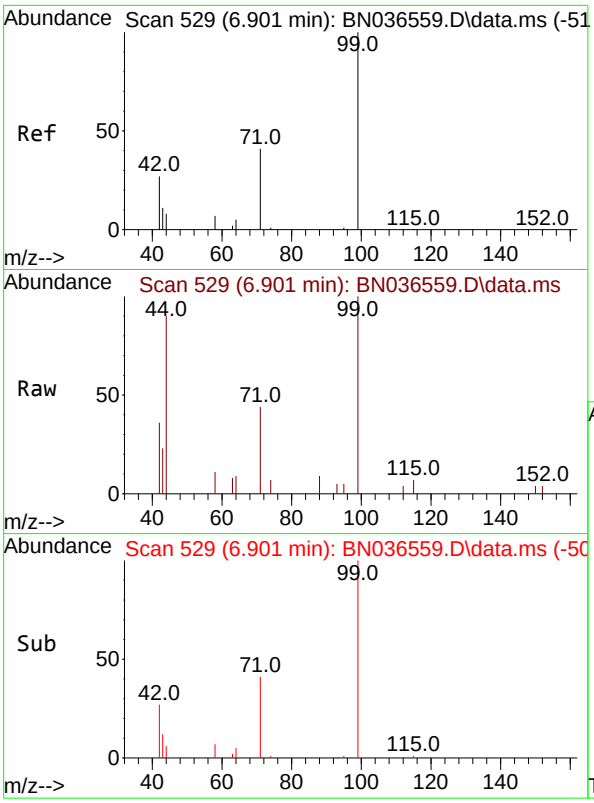


#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



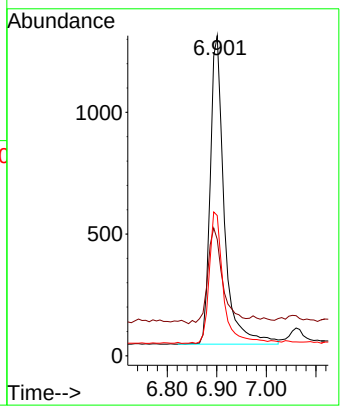


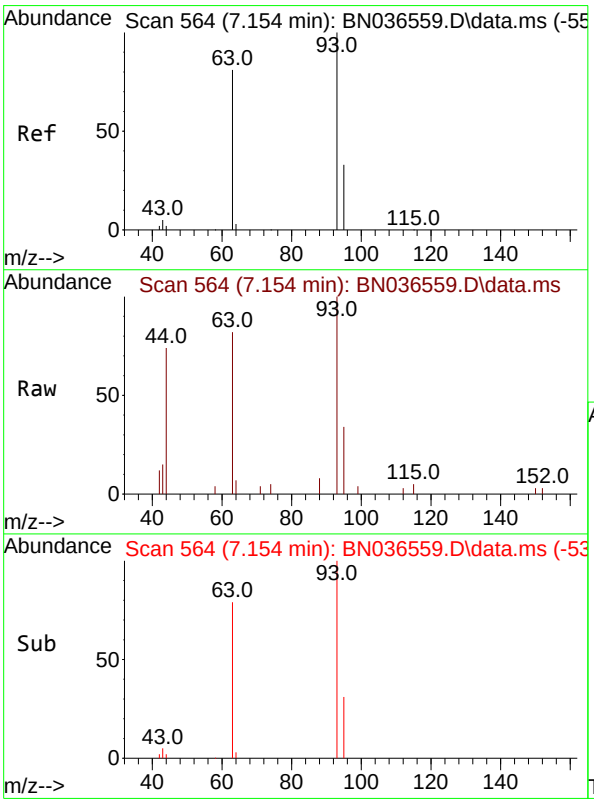
#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

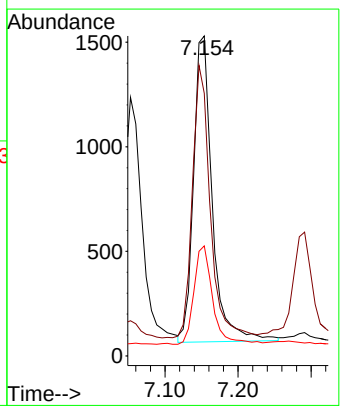


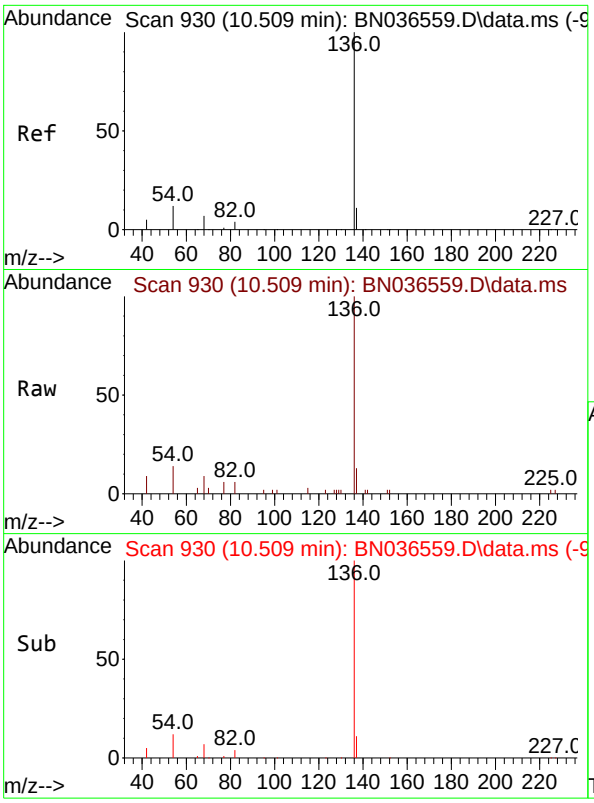


#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



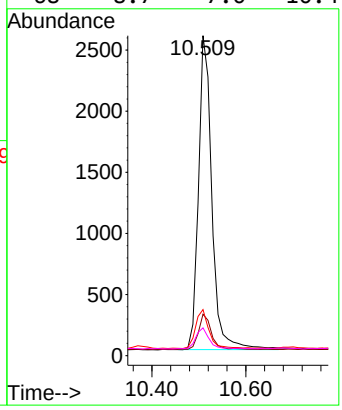


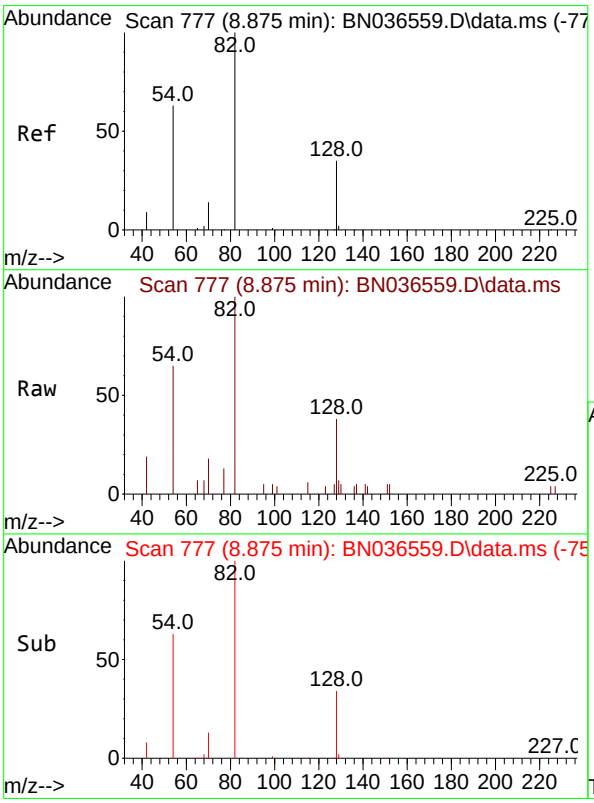
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

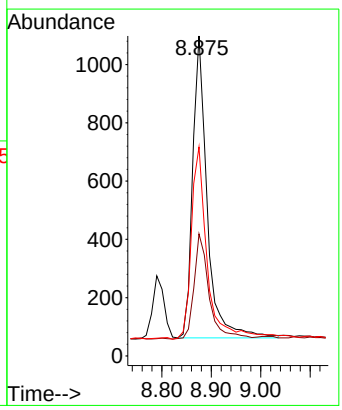


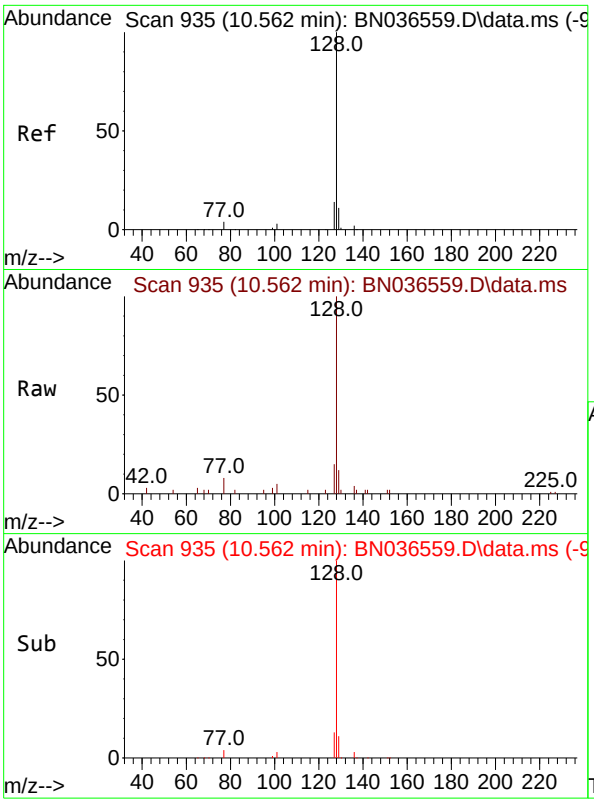


#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



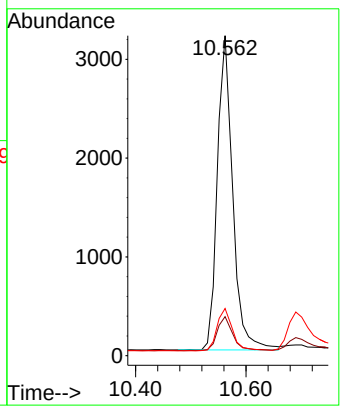


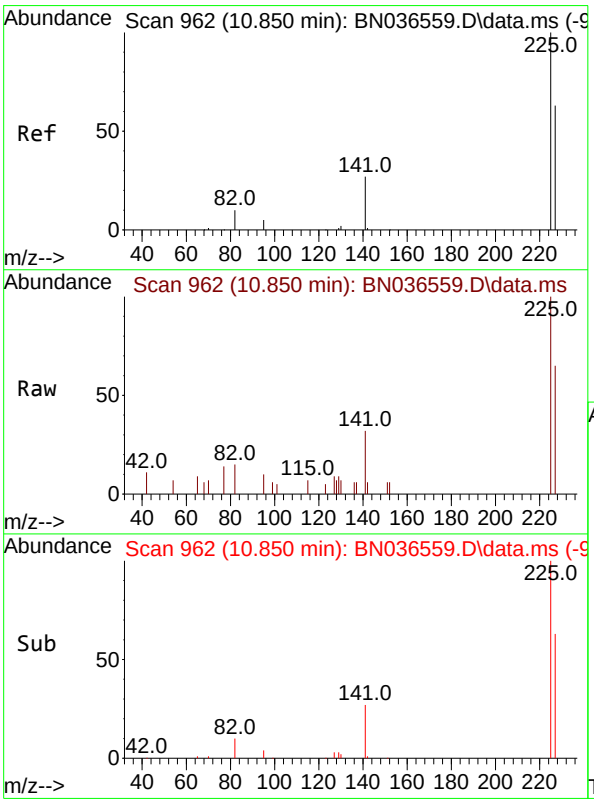
#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

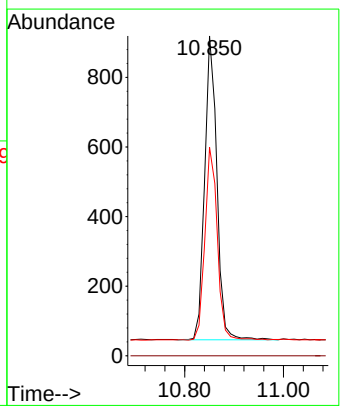


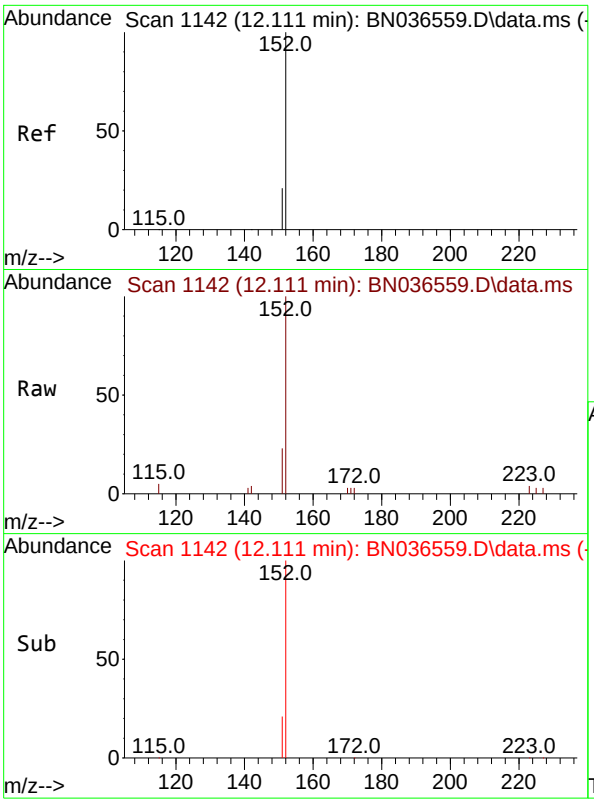


#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



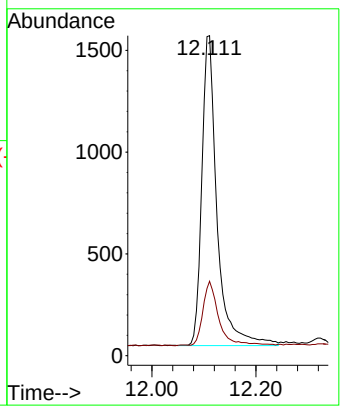


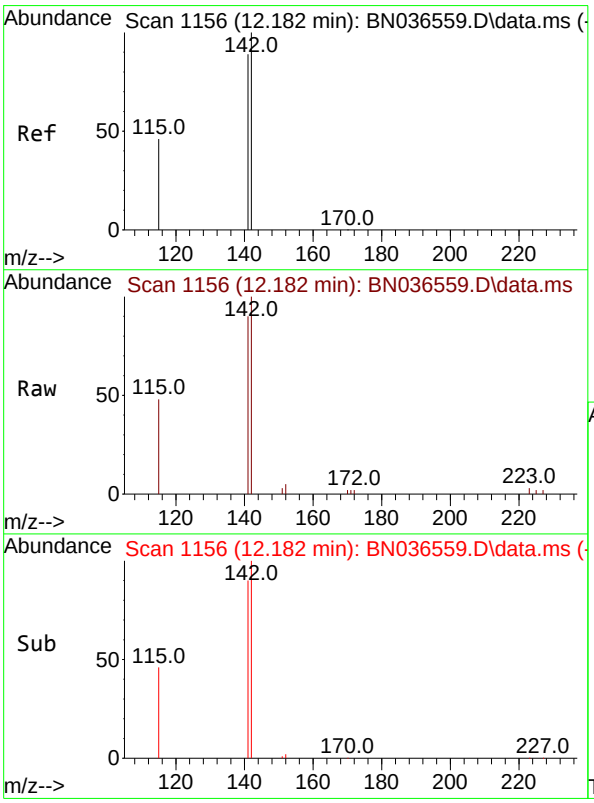
#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3085

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

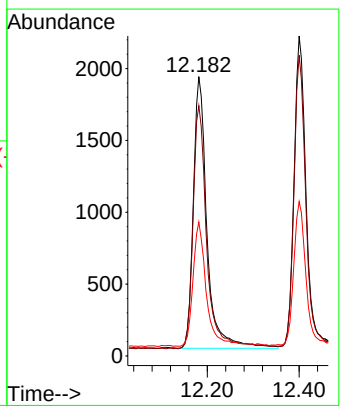


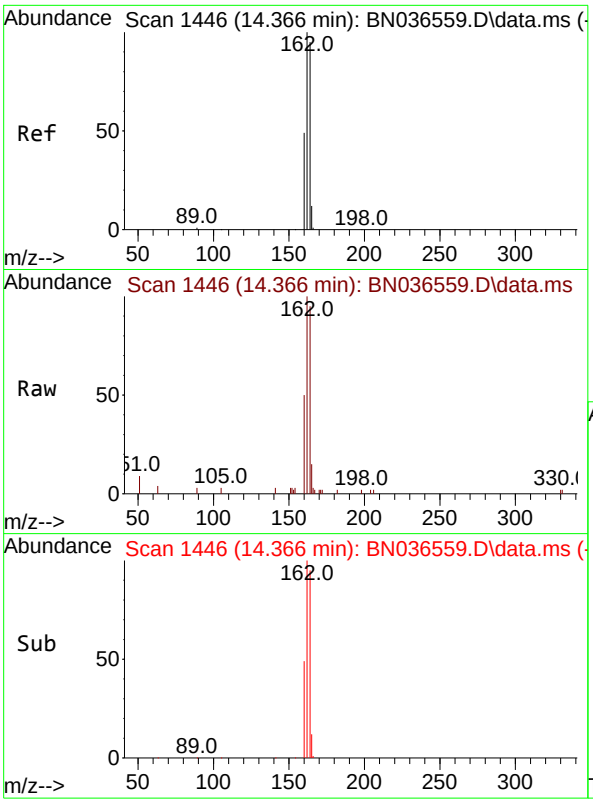


#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



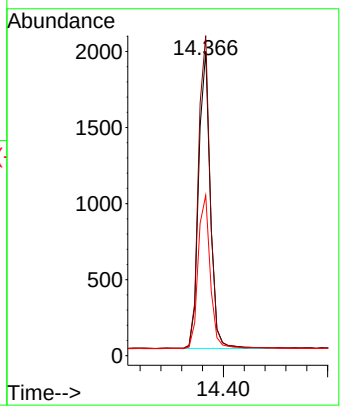


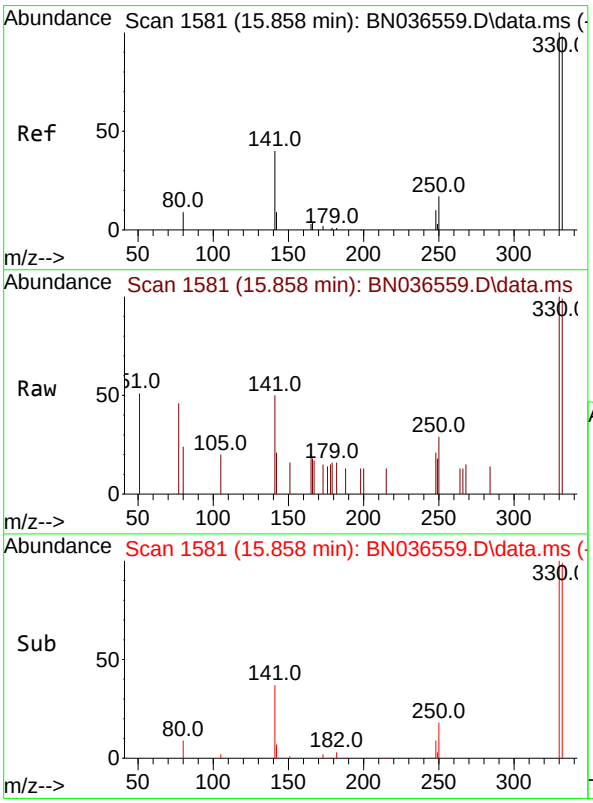
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

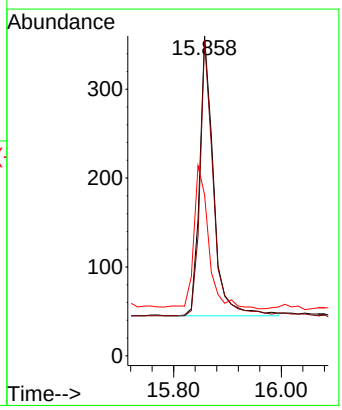


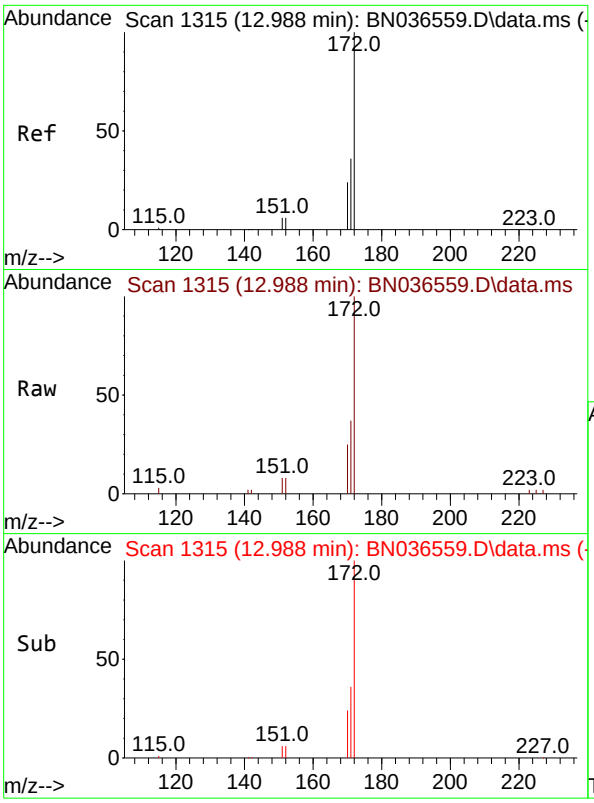


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



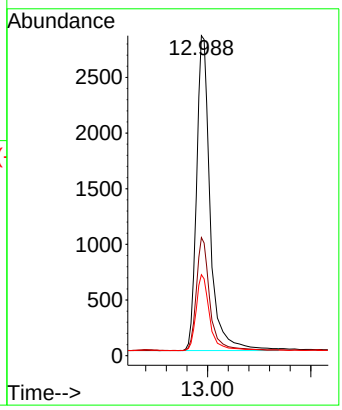


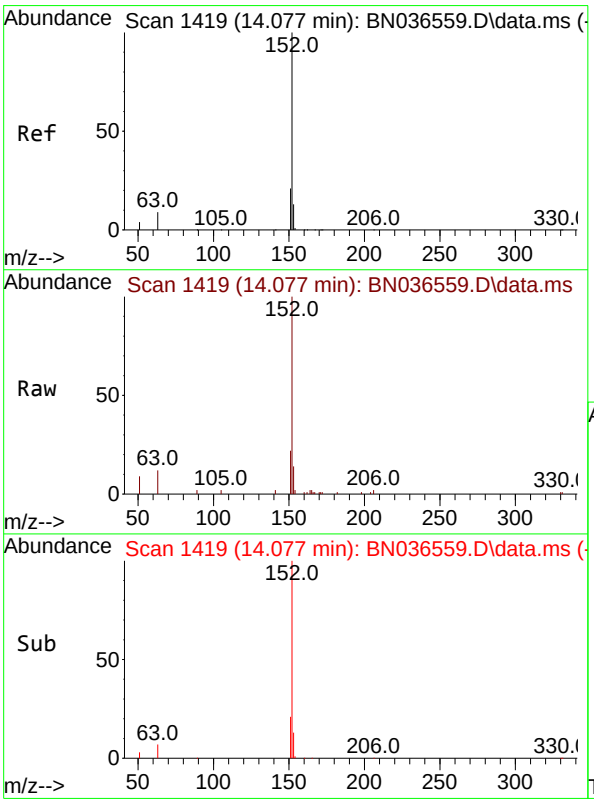
#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

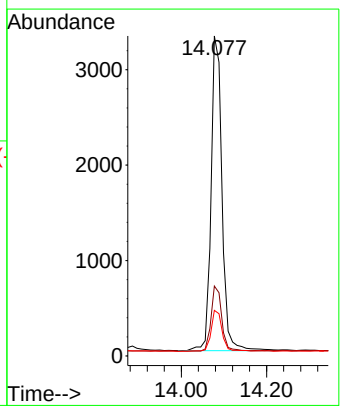


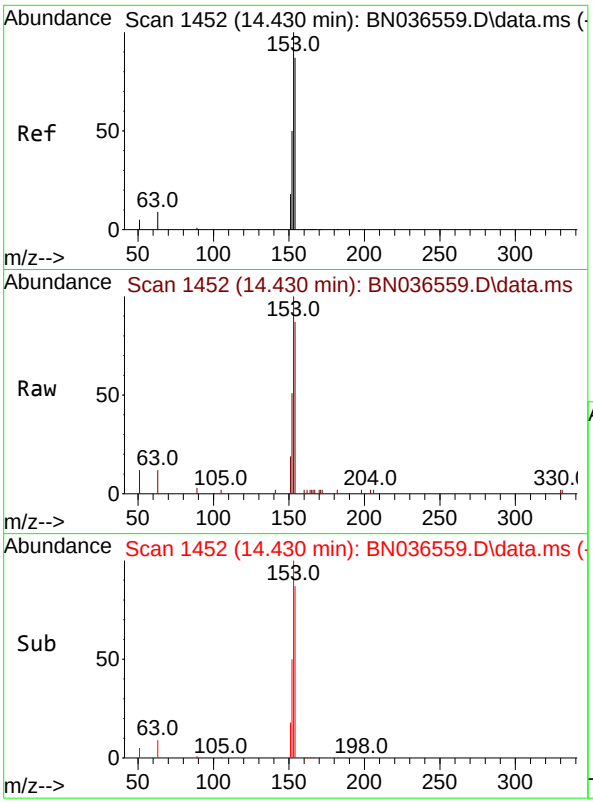


#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



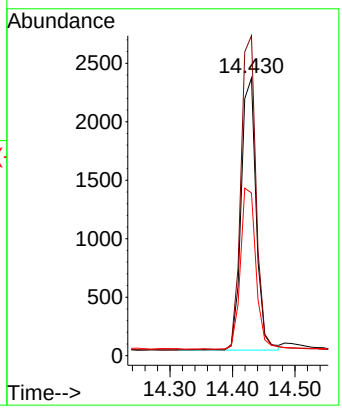


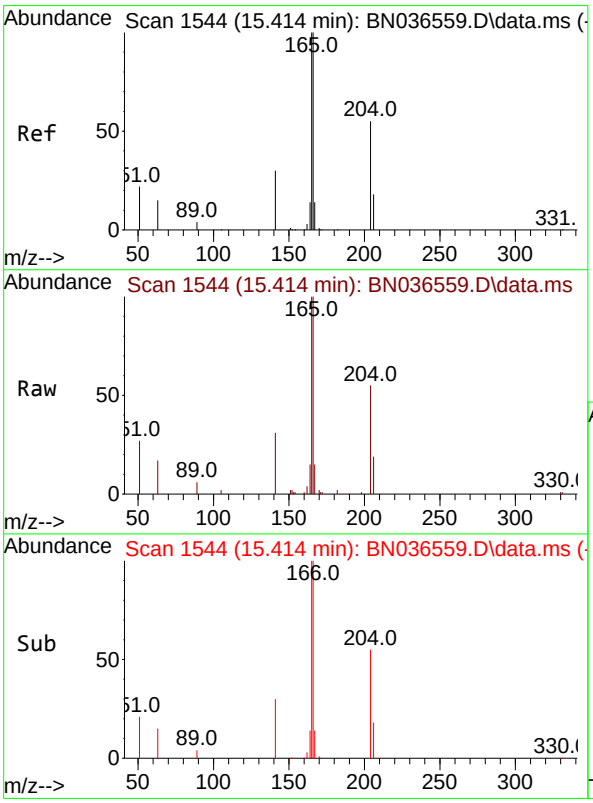
#17
Acenaphthene
Concen: 0.415 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

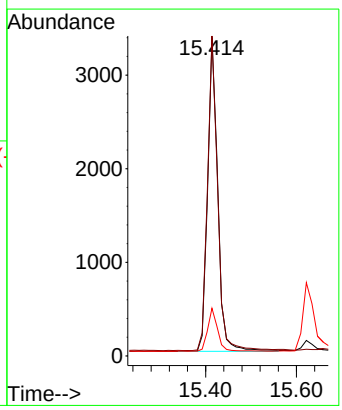


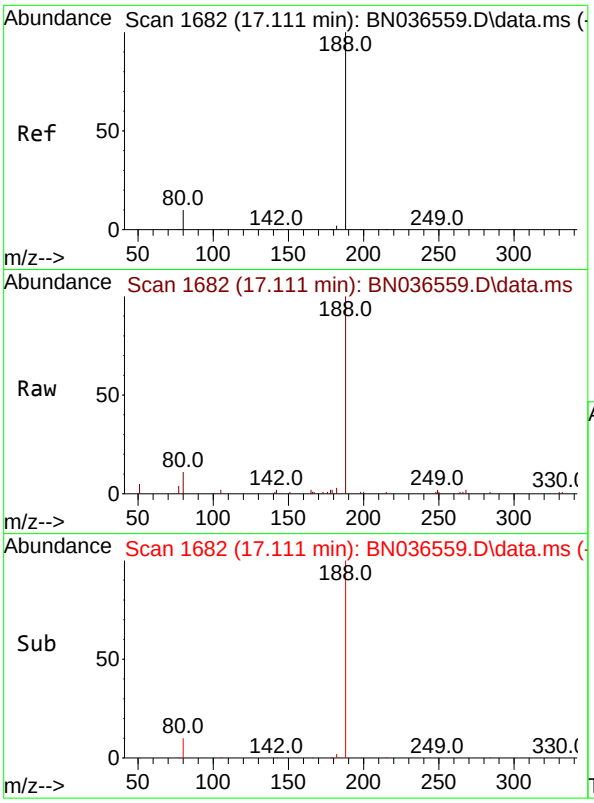


#18
Fluorene
Concen: 0.422 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



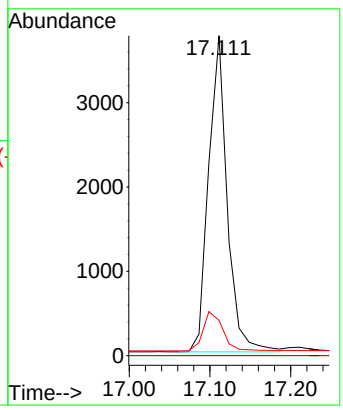


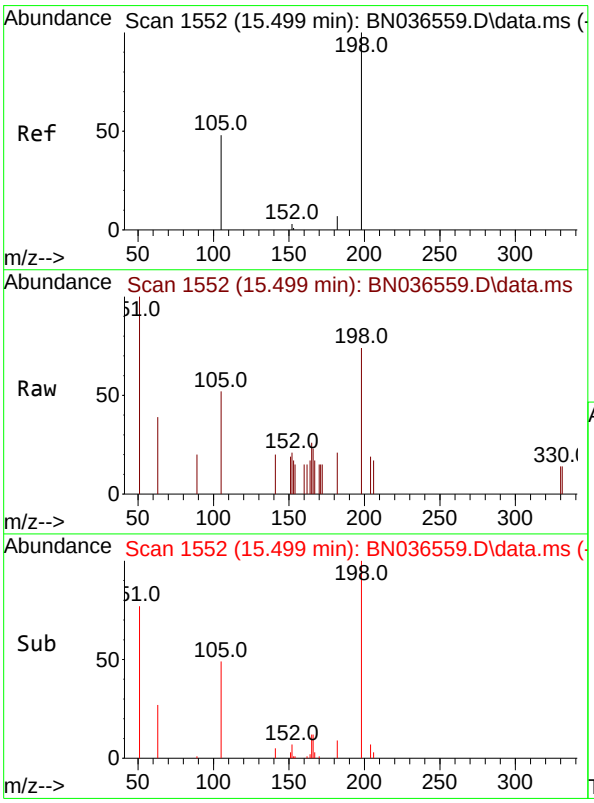
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

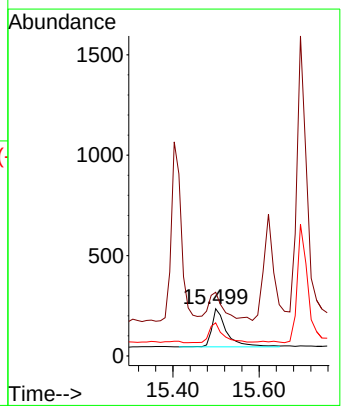


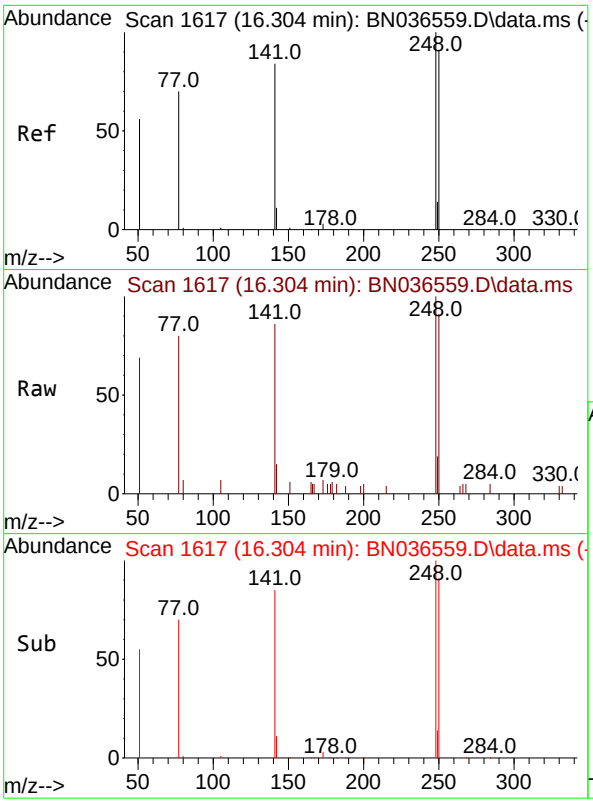


#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



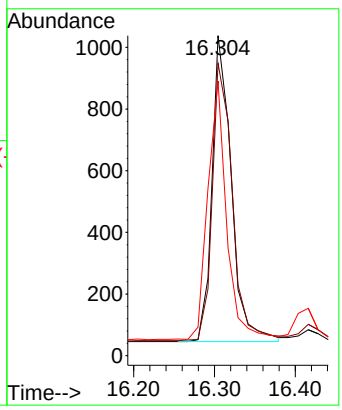


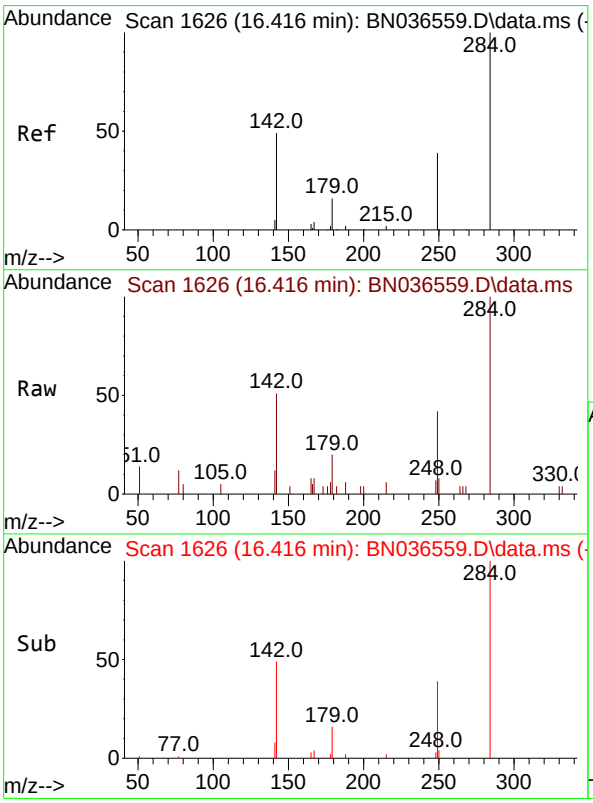
#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

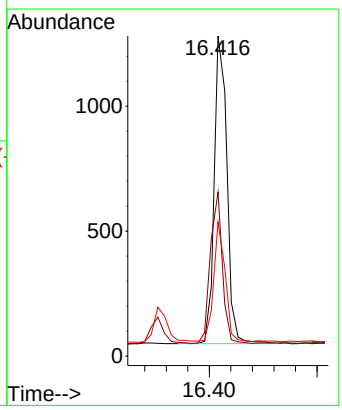


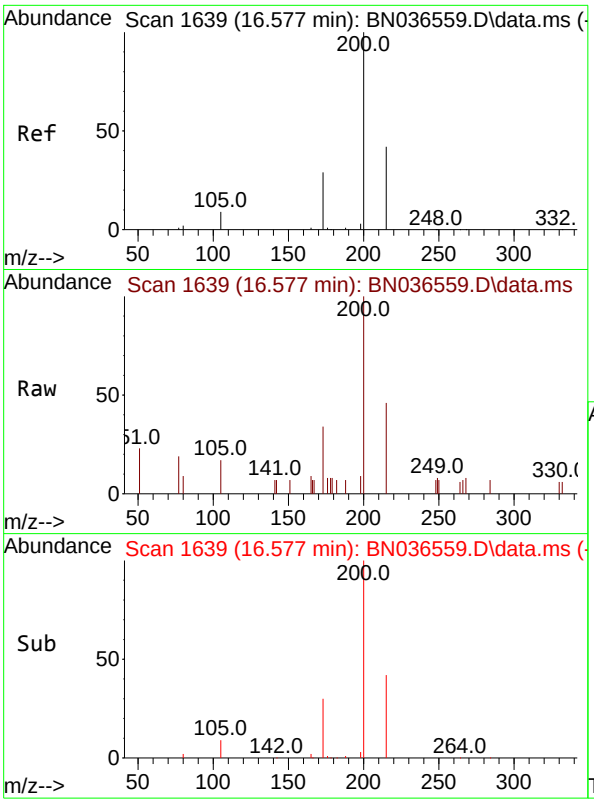


#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



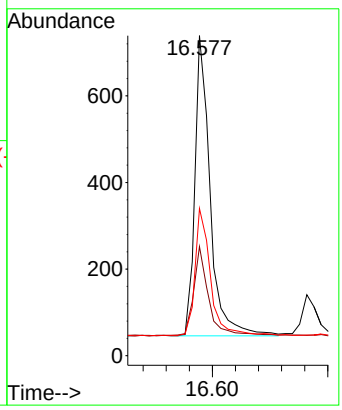


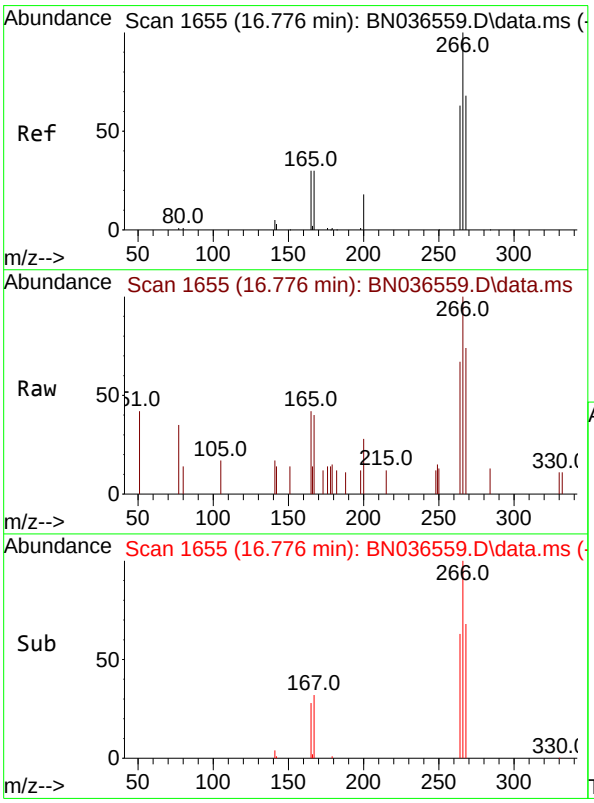
#23
Atrazine
Concen: 0.424 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

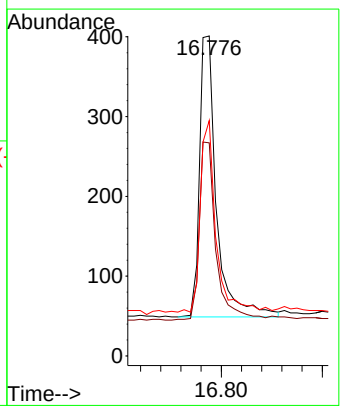


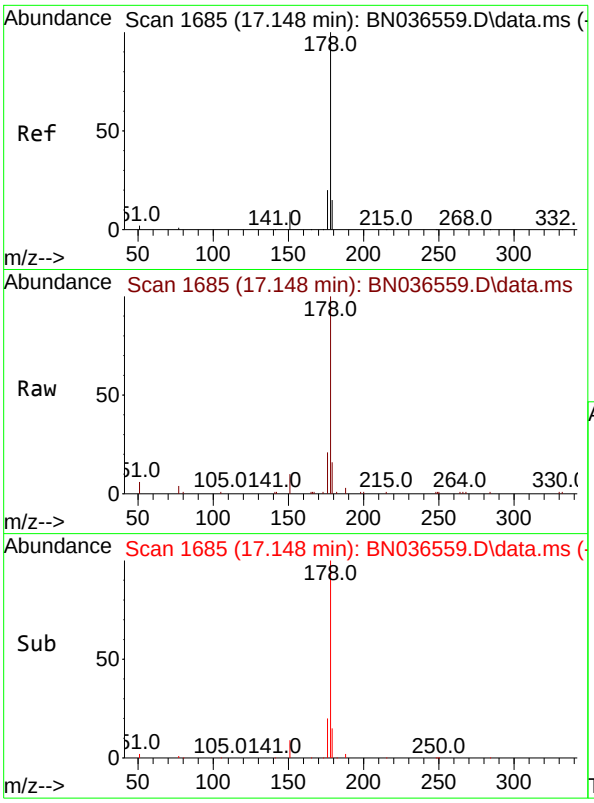


#24
Pentachlorophenol
Concen: 0.396 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



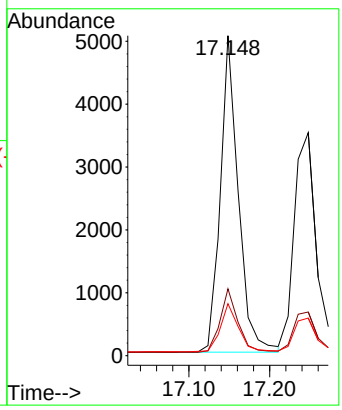


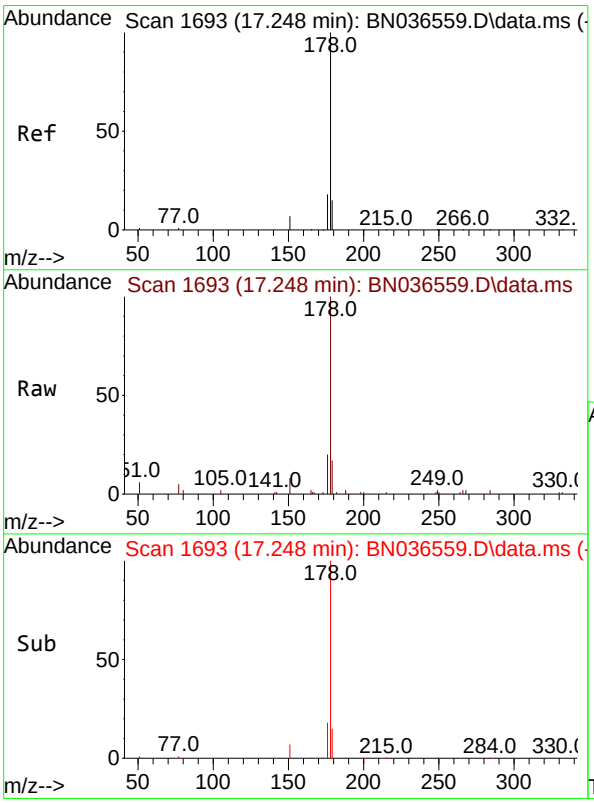
#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

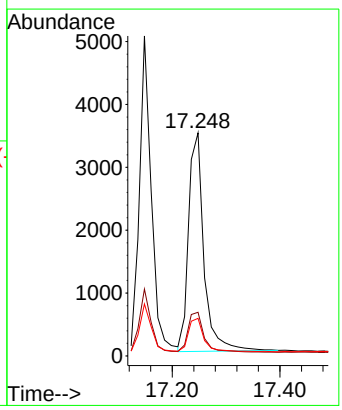


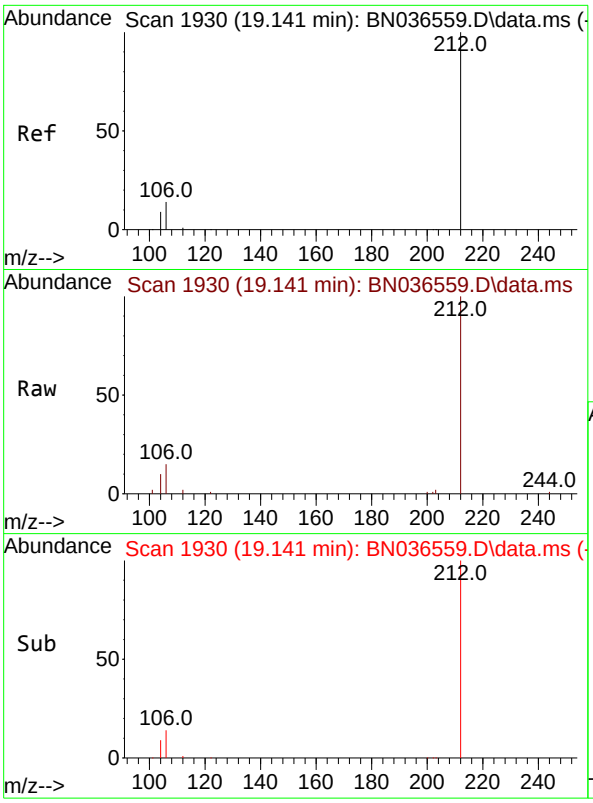


#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



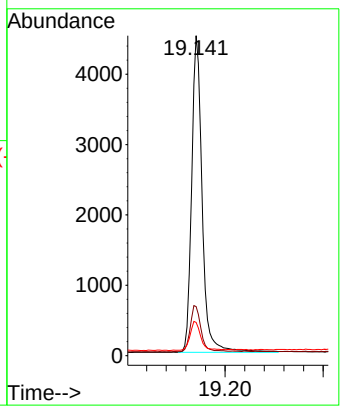


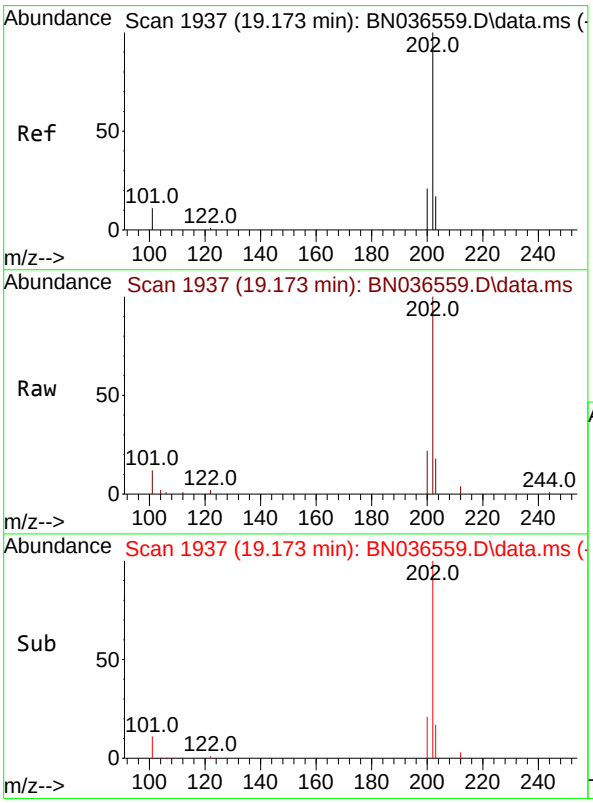
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

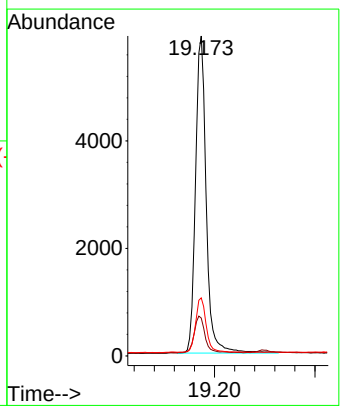


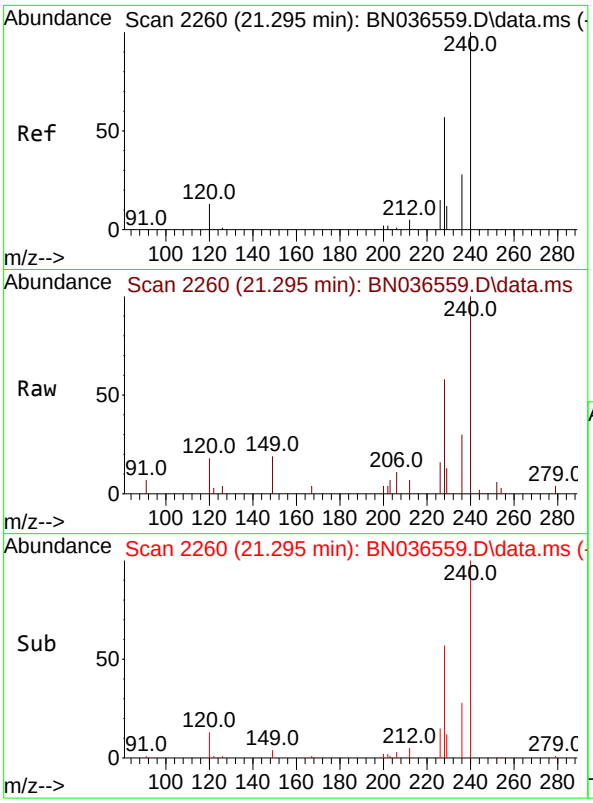


#28
Fluoranthene
Concen: 0.431 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



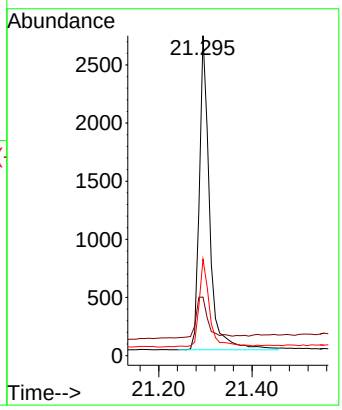


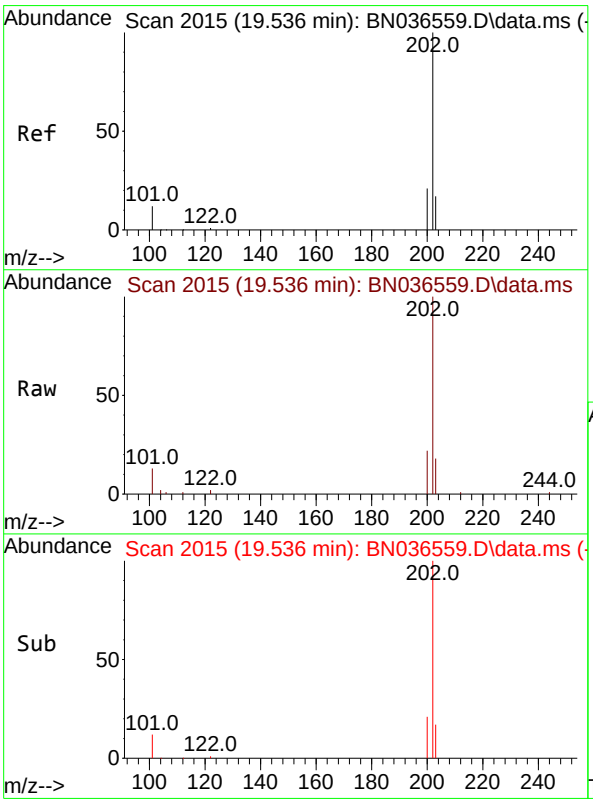
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

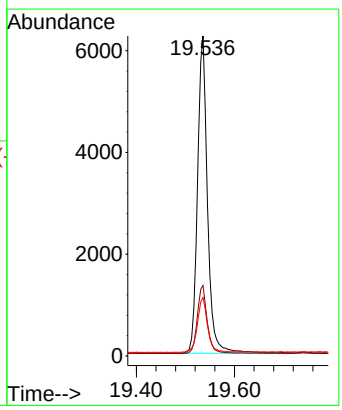


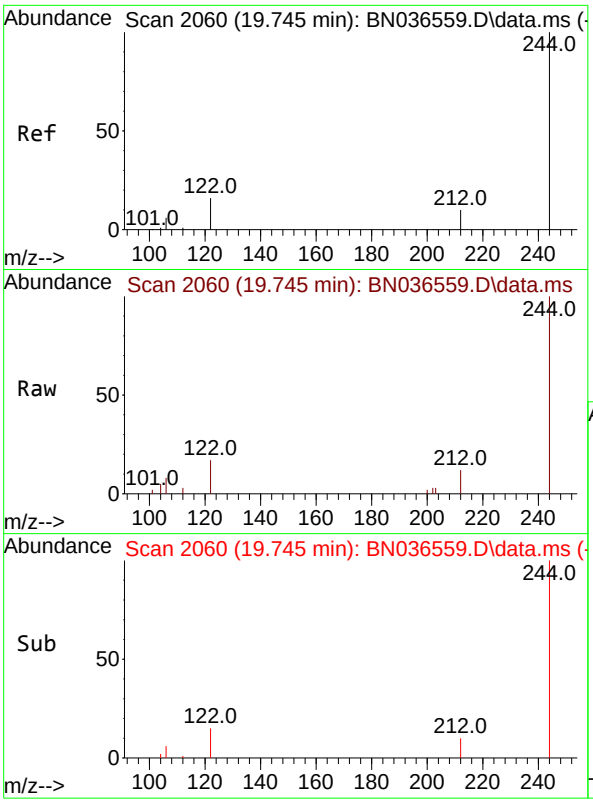


#30
Pyrene
Concen: 0.436 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



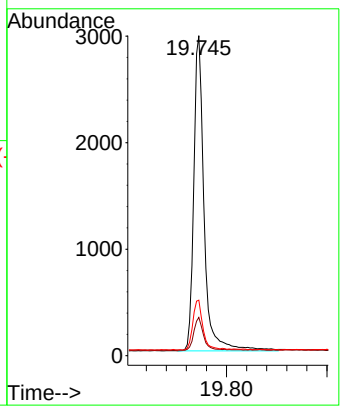


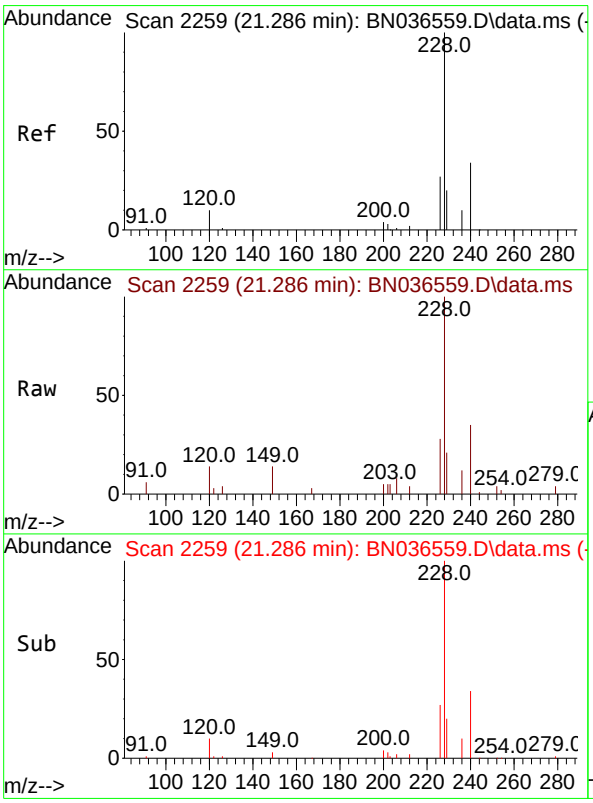
#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

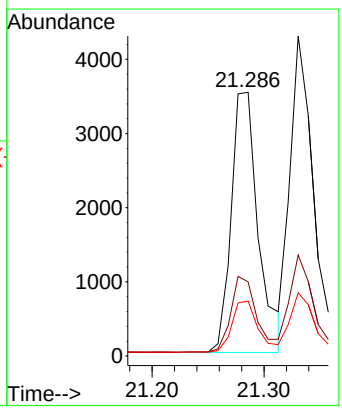


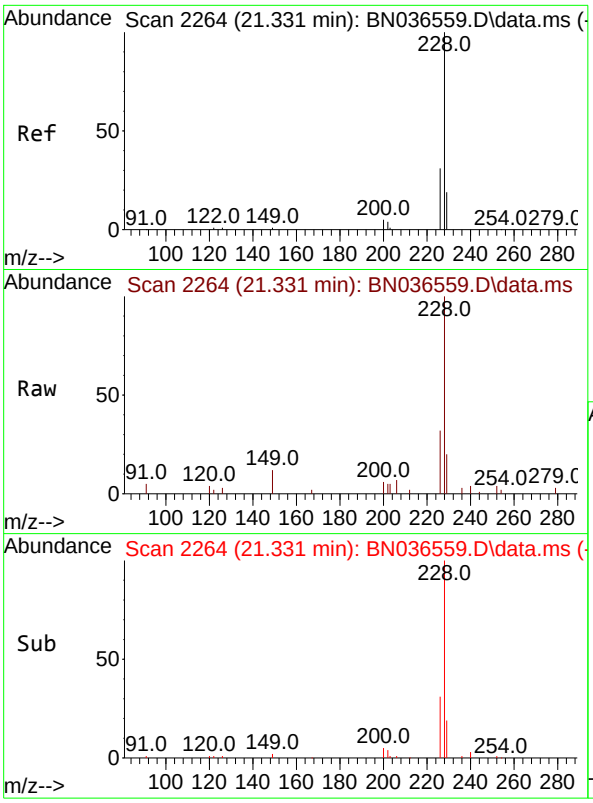


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



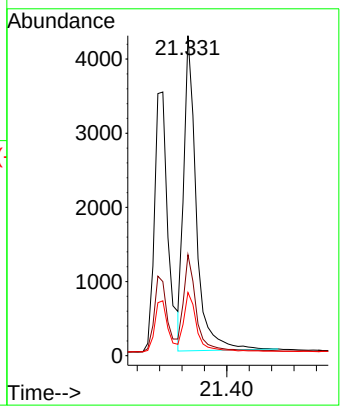


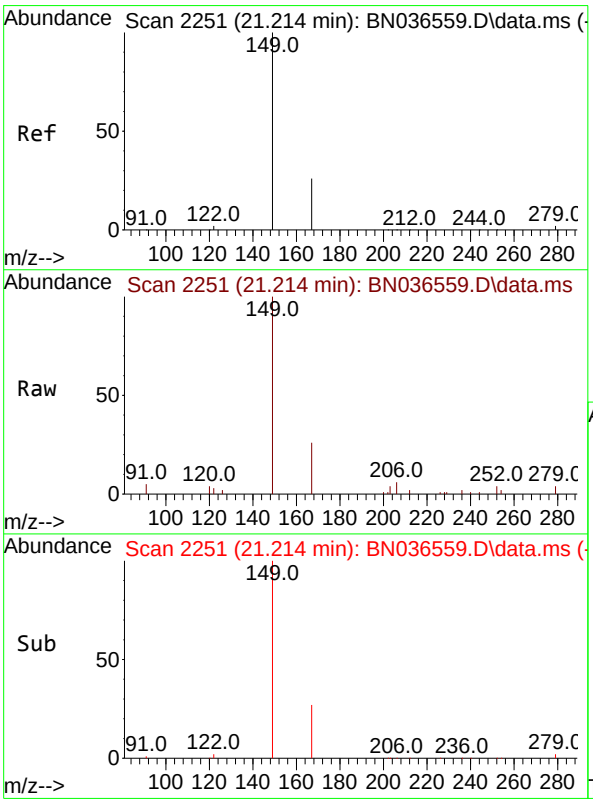
#33
Chrysene
Concen: 0.424 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

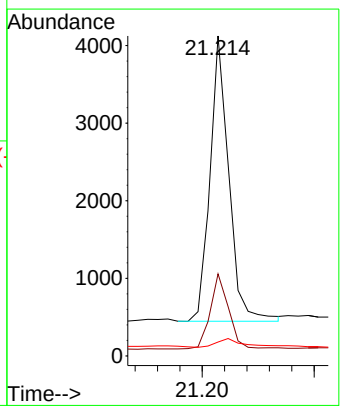


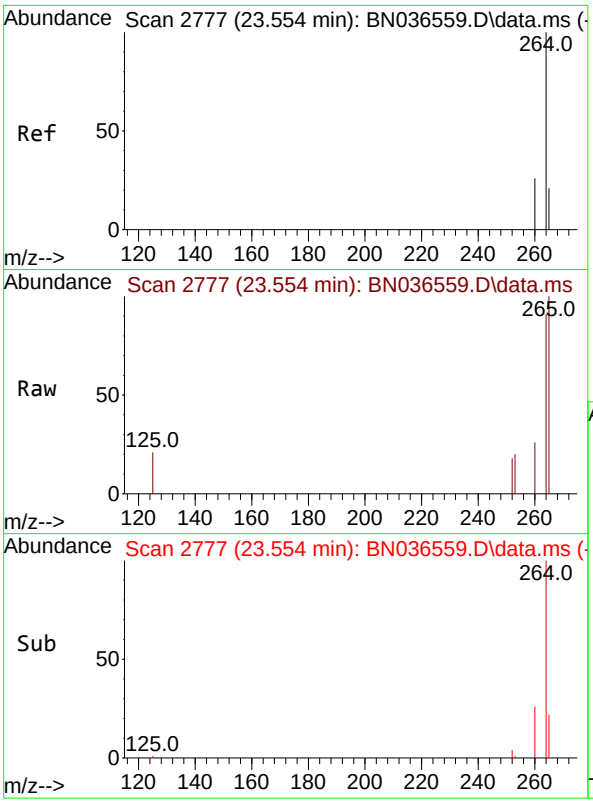


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



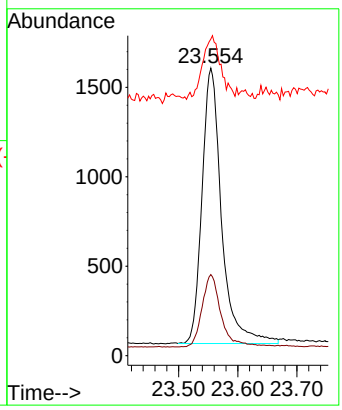


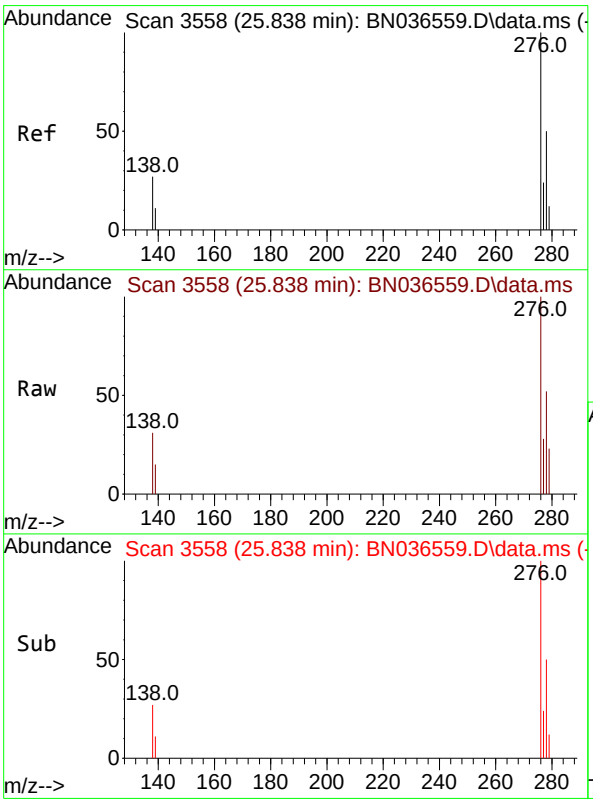
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

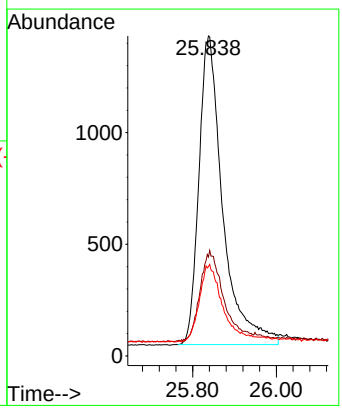


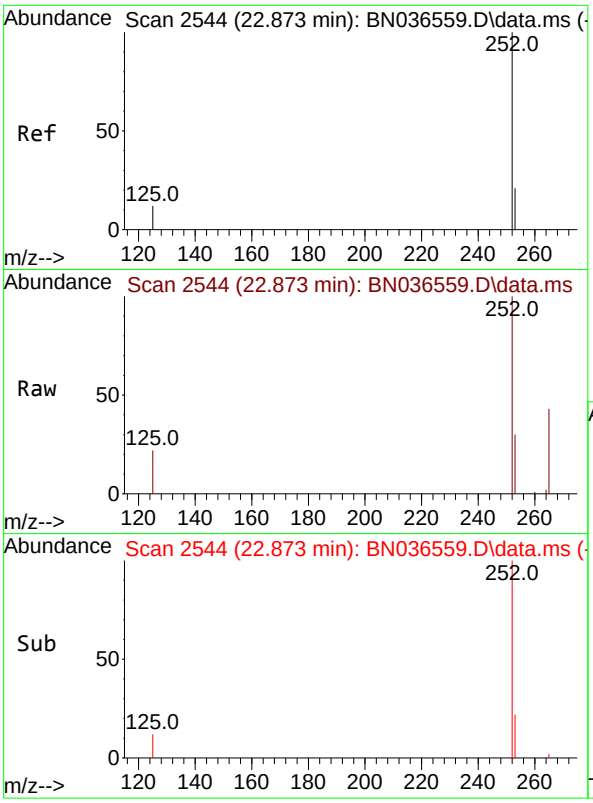


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



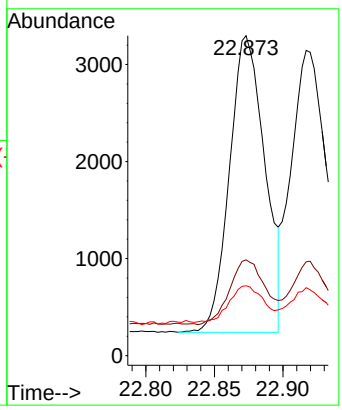


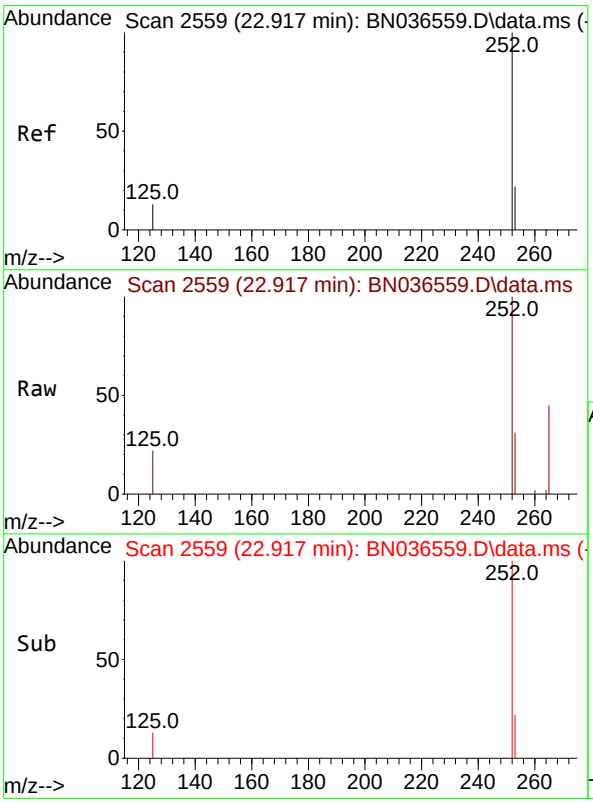
#37
Benzo(b)fluoranthene
Concen: 0.425 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

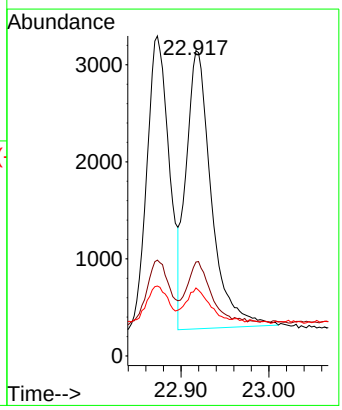


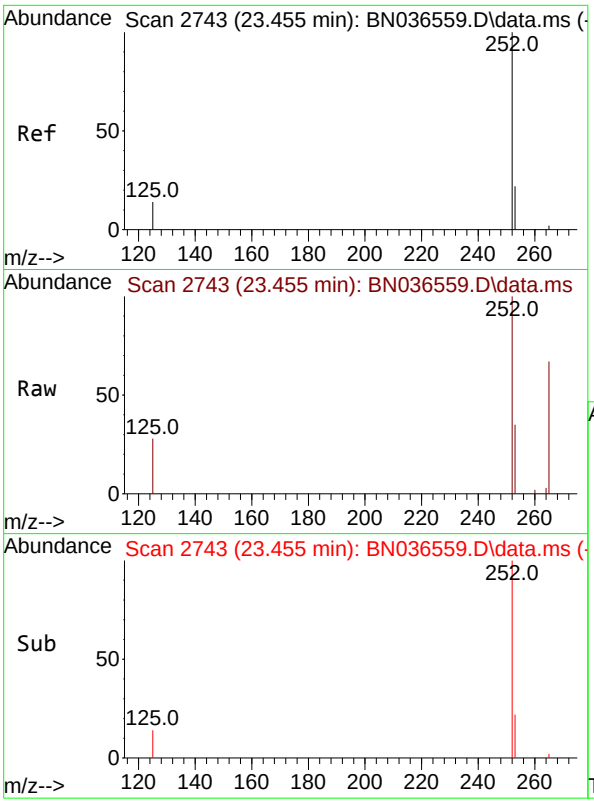


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



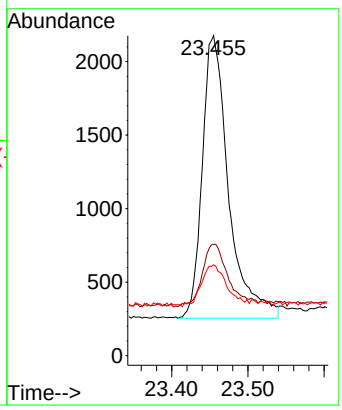


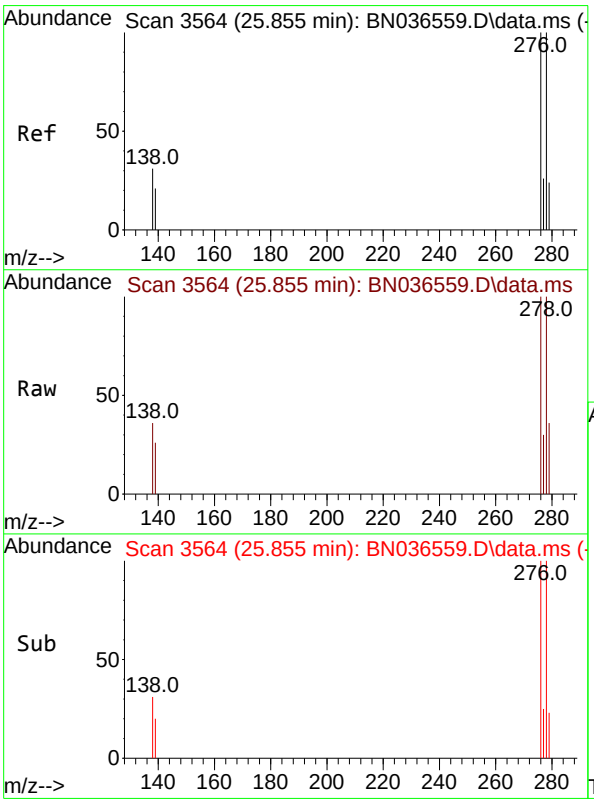
#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

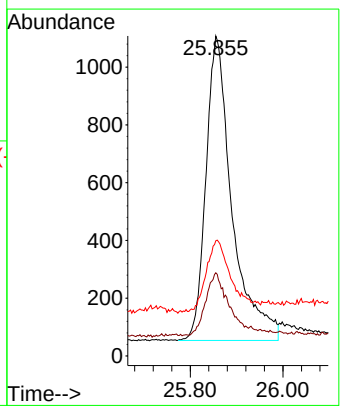


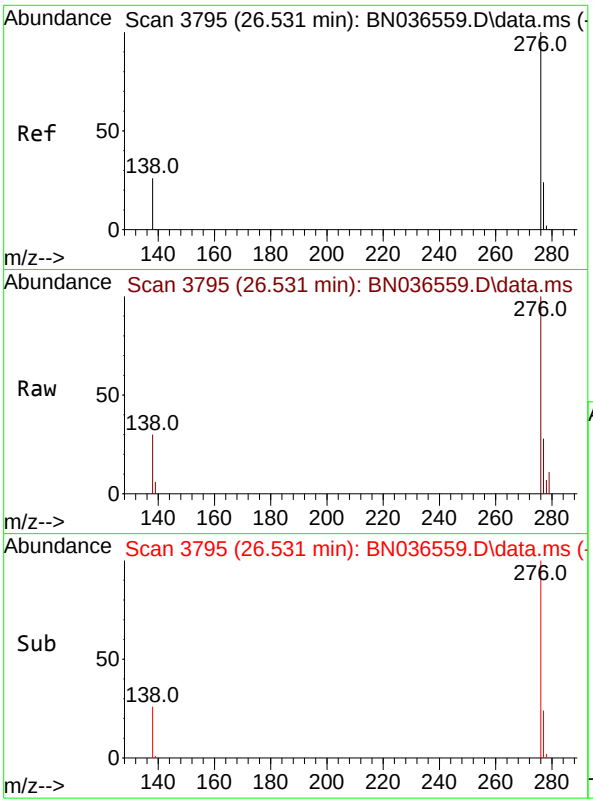


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



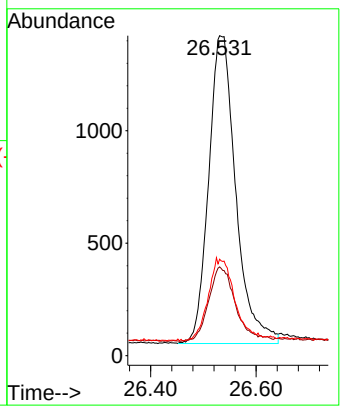


#41
Benzo(g,h,i)perylene
Concen: 0.430 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

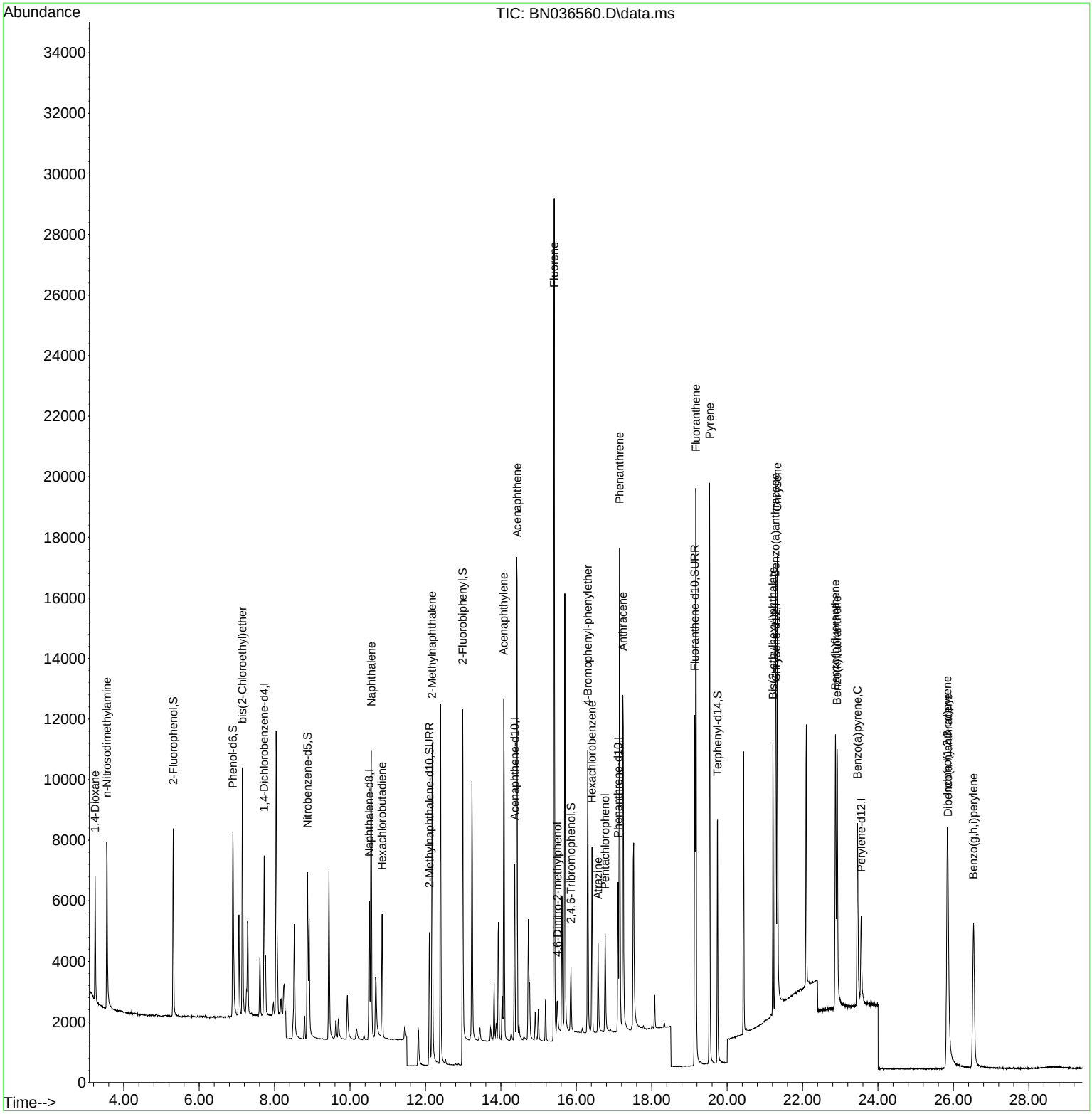
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng		0.00
29) Chrysene-d12	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

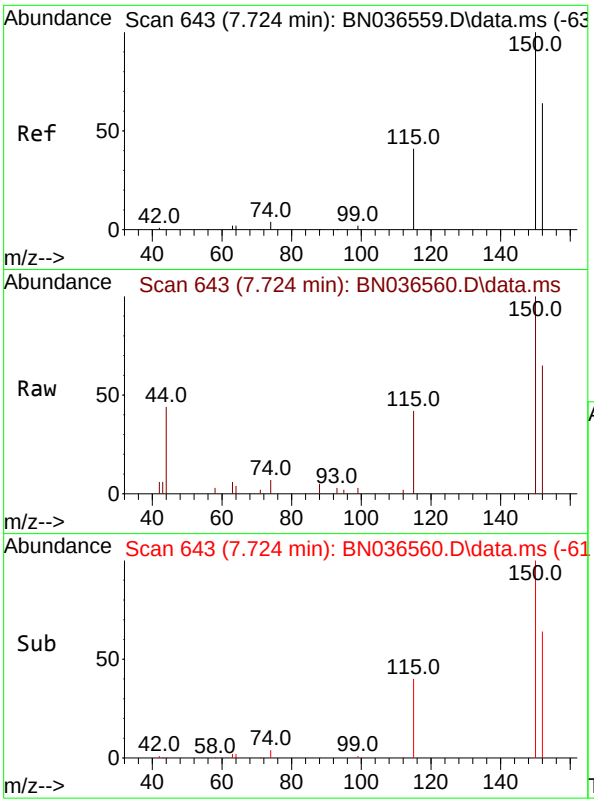
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



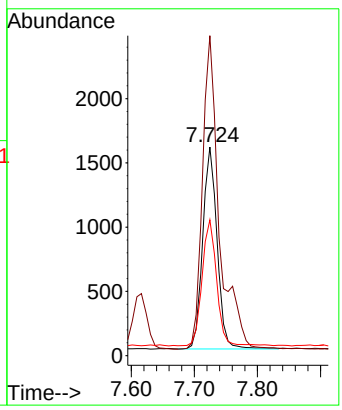


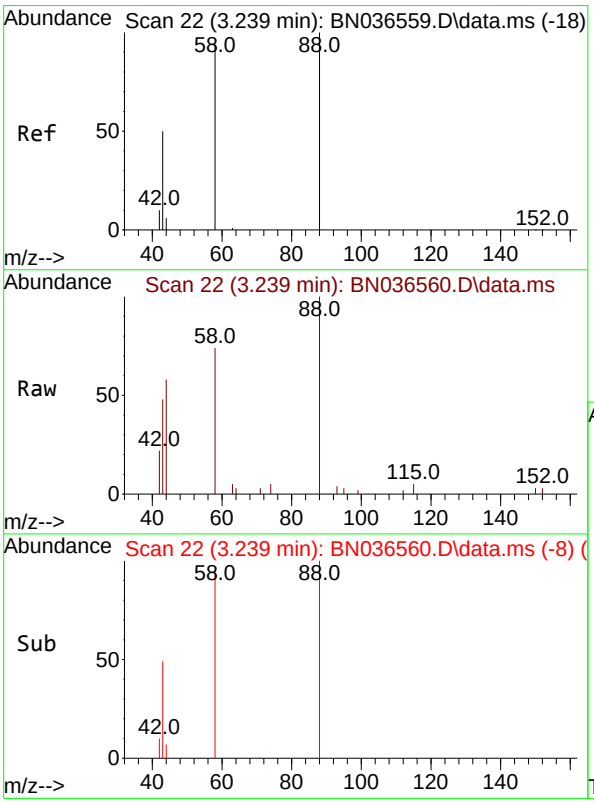
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

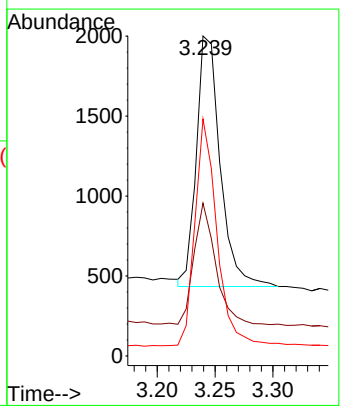


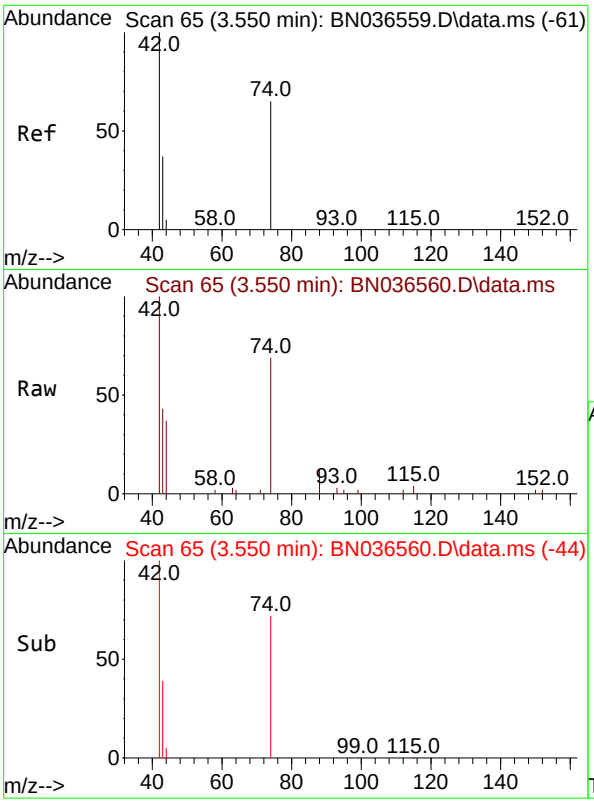


#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



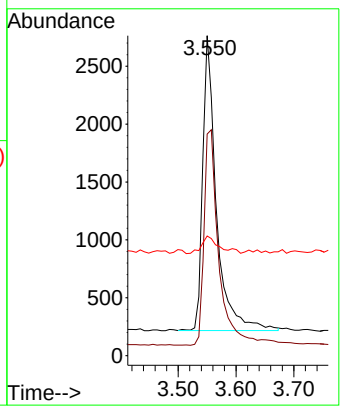


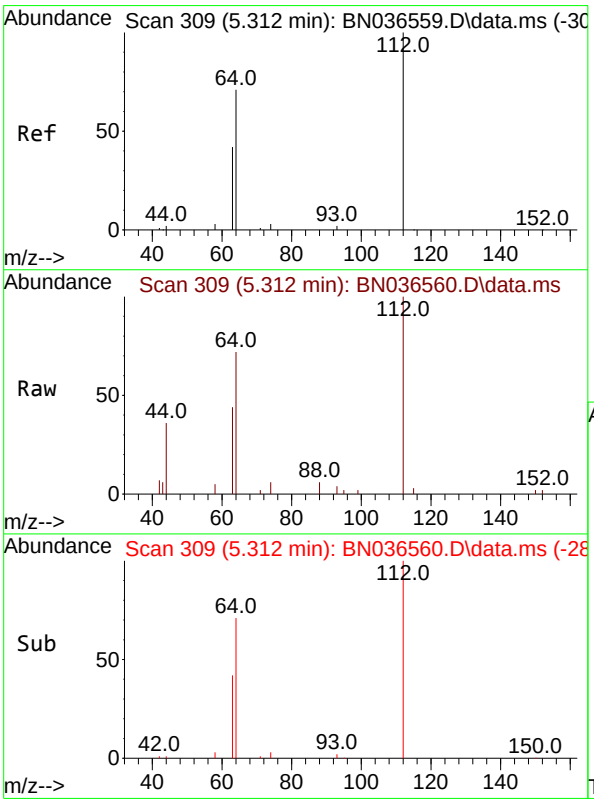
#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

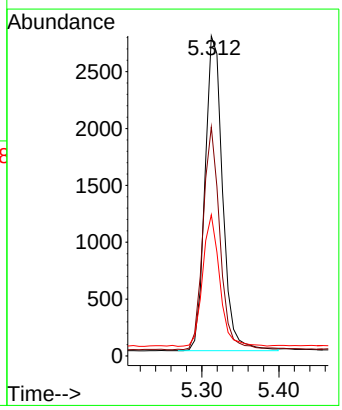


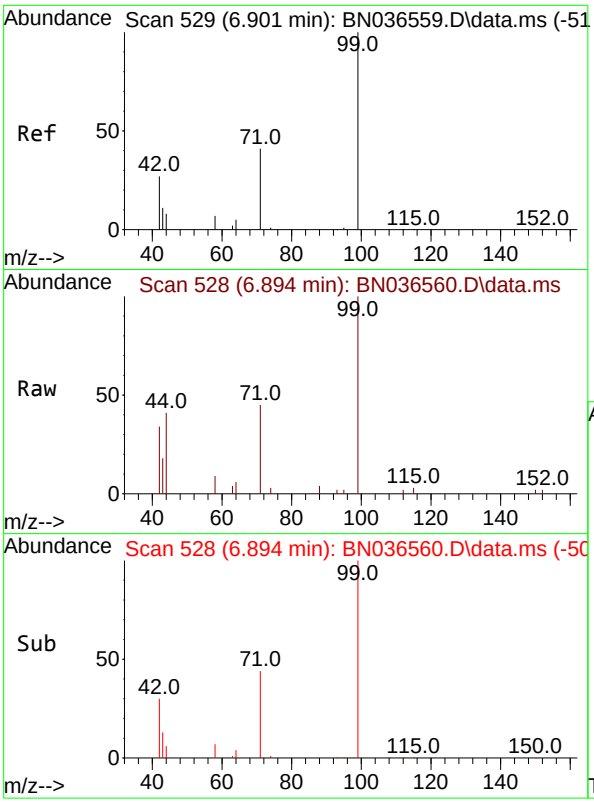


#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



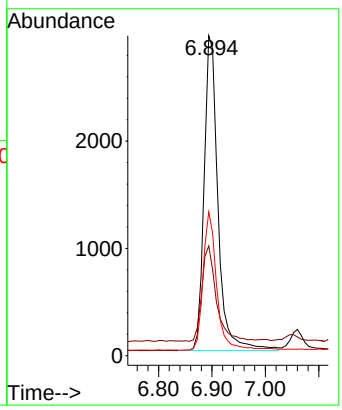


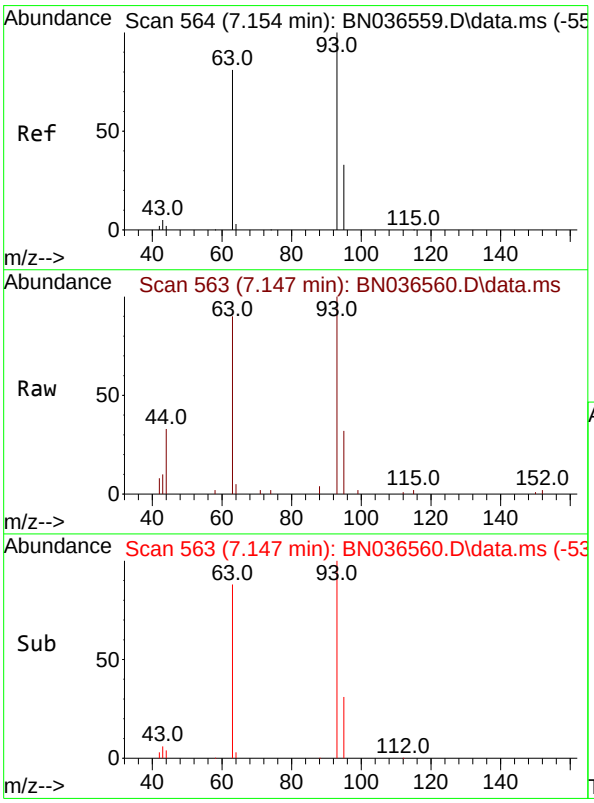
#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

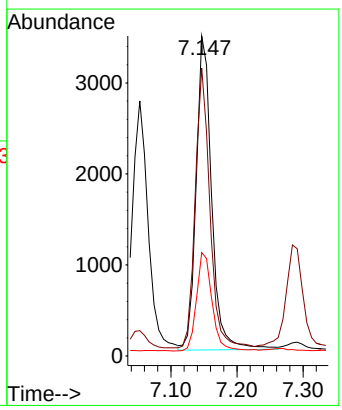


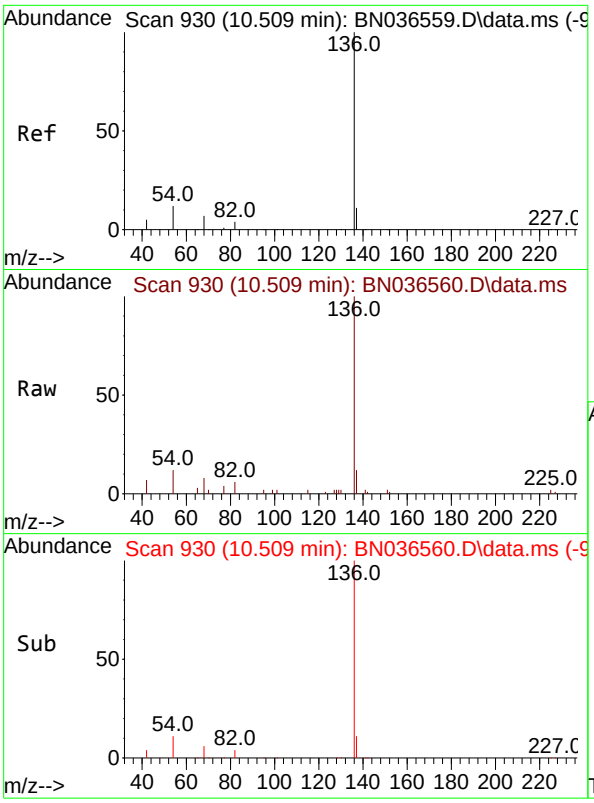


#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



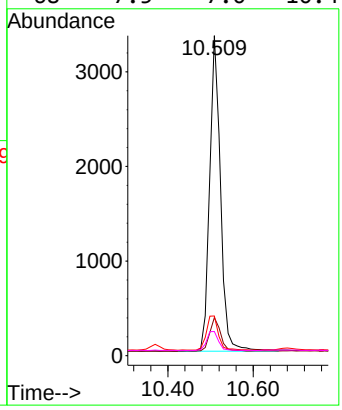


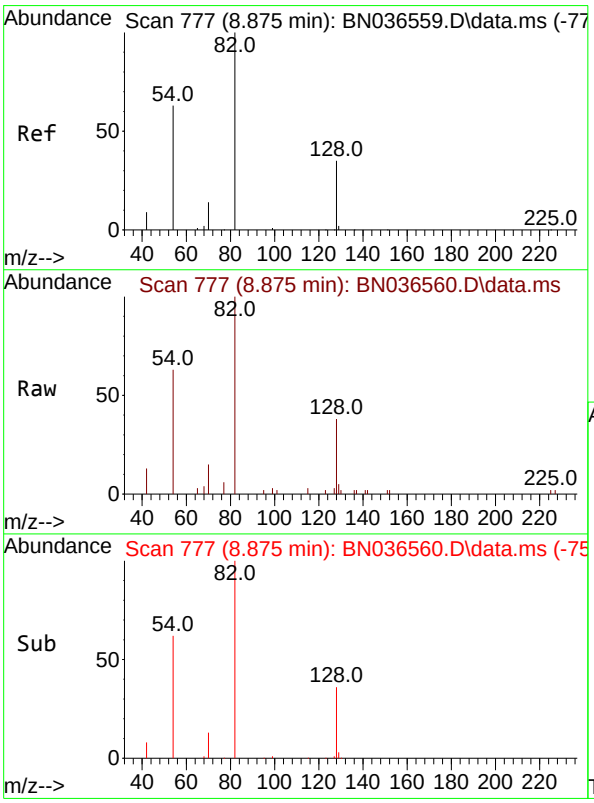
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

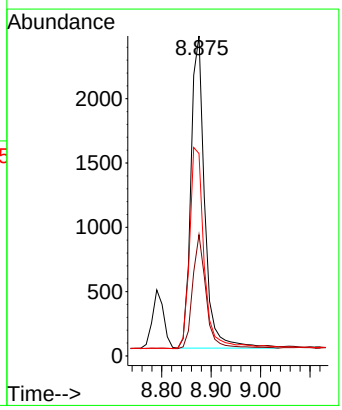


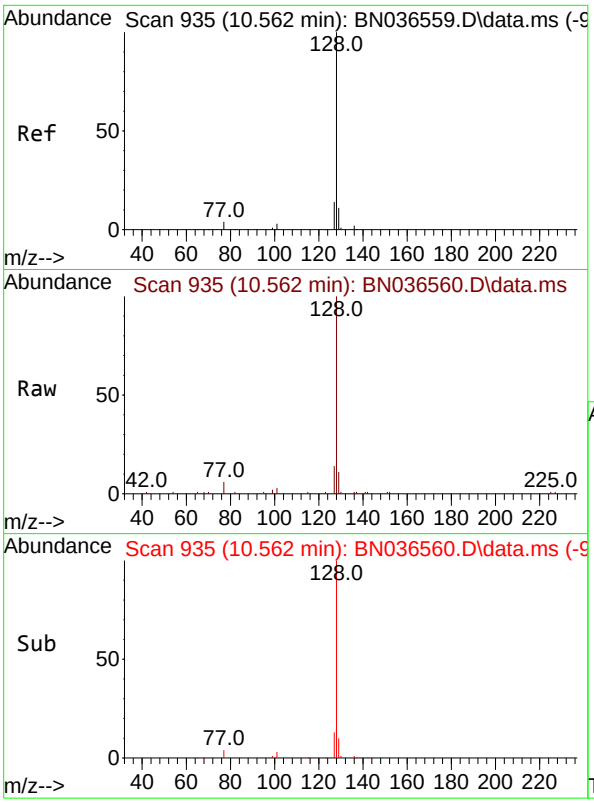


#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



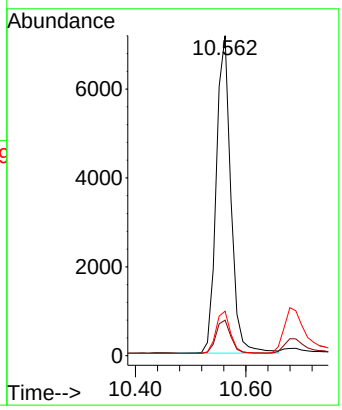


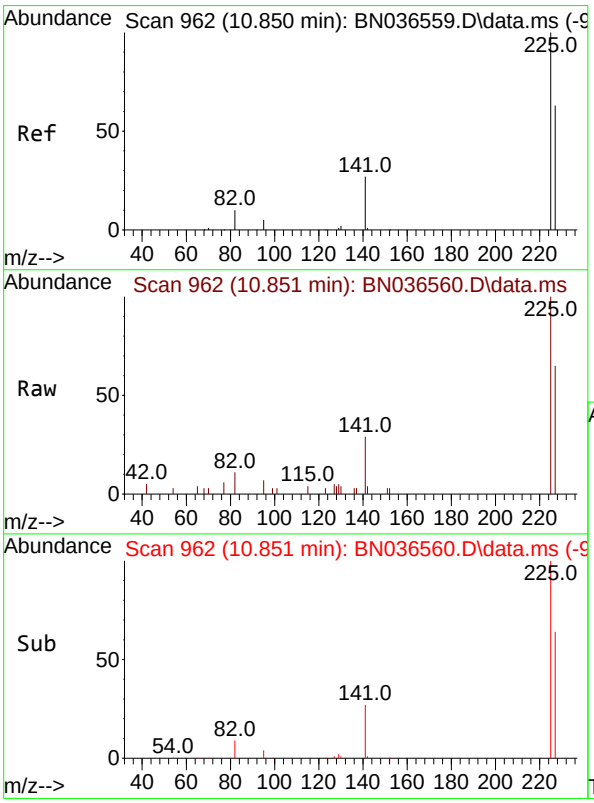
#9
Naphthalene
Concen: 0.756 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

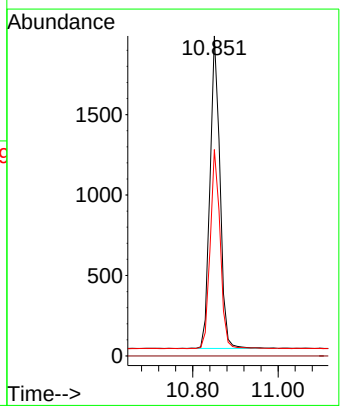


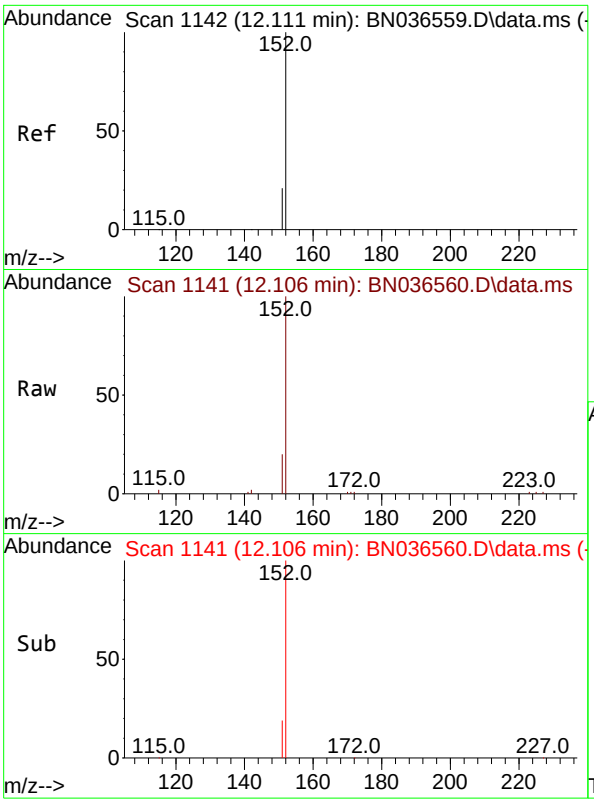


#10
Hexachlorobutadiene
Concen: 0.772 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



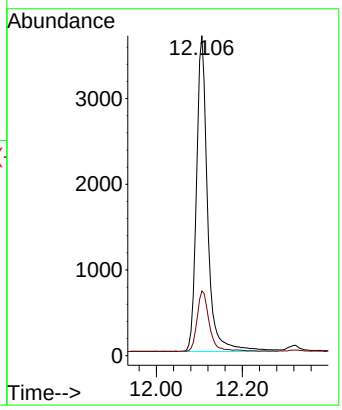


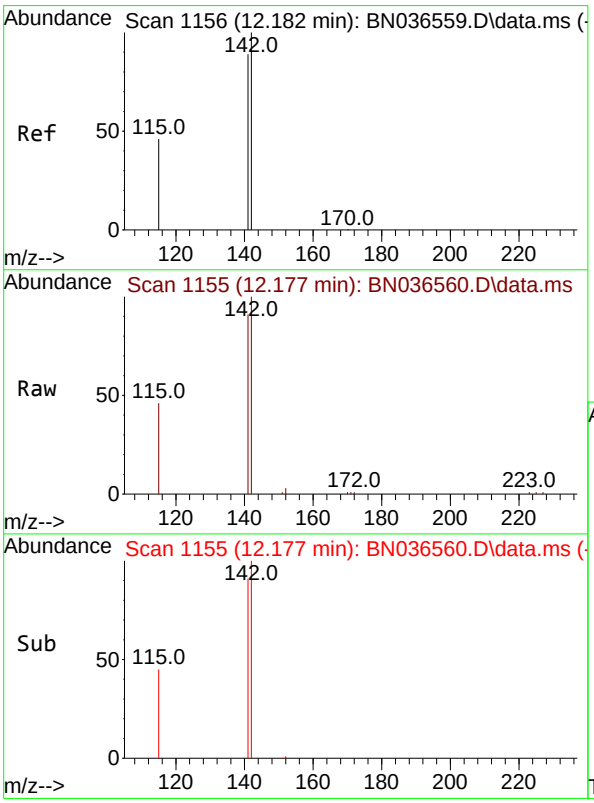
#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6616

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

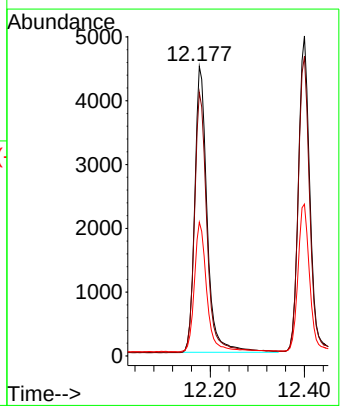


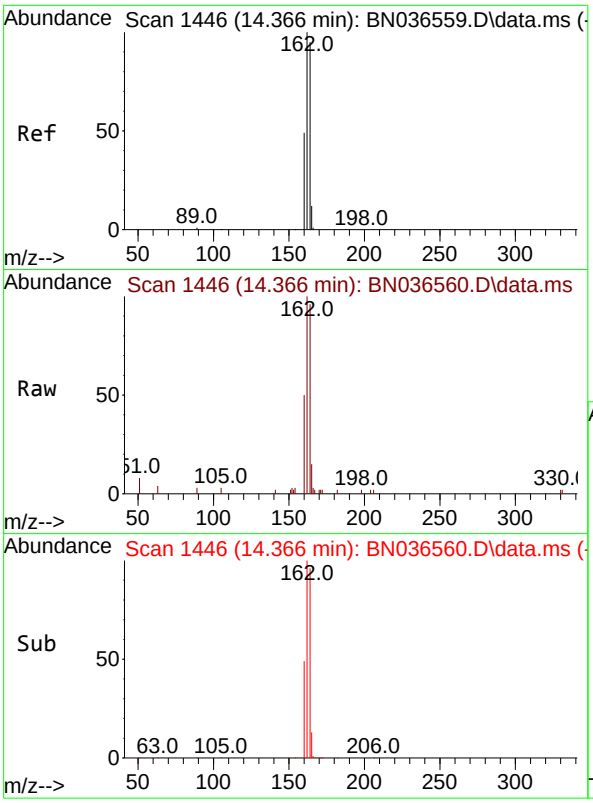


#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



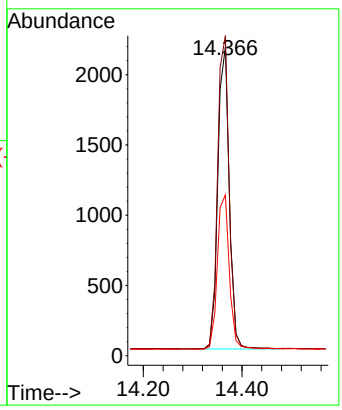


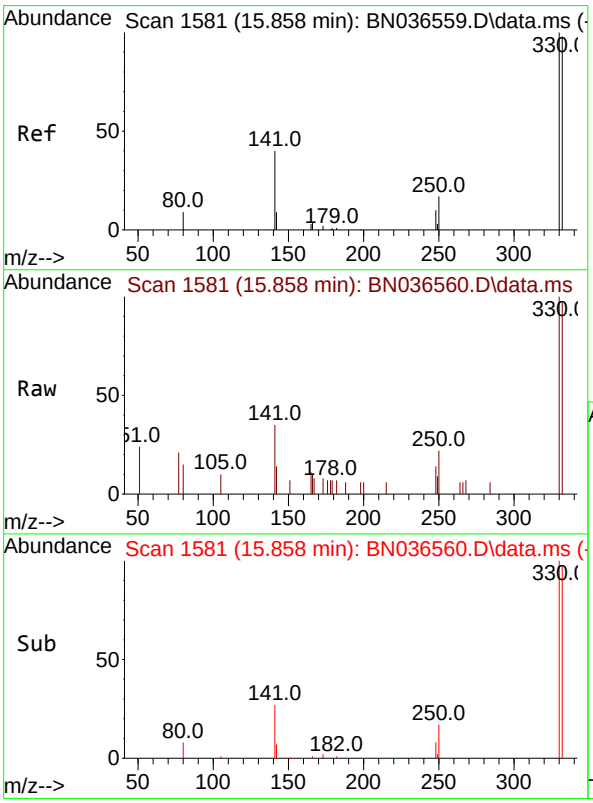
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

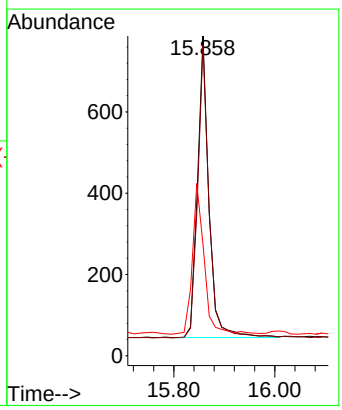


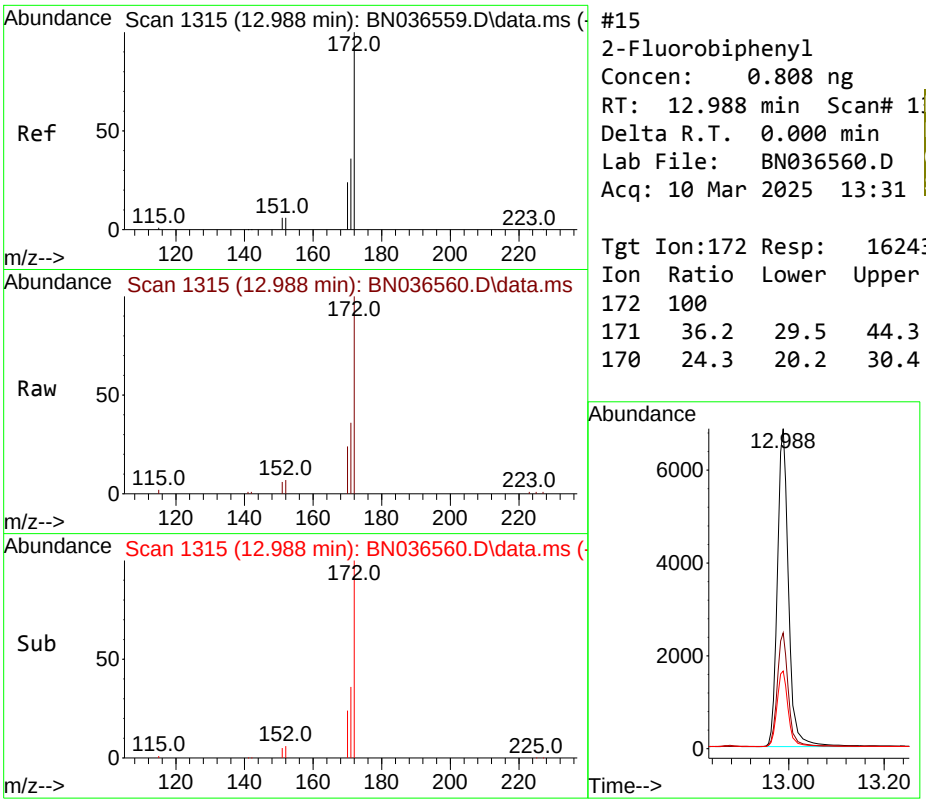


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



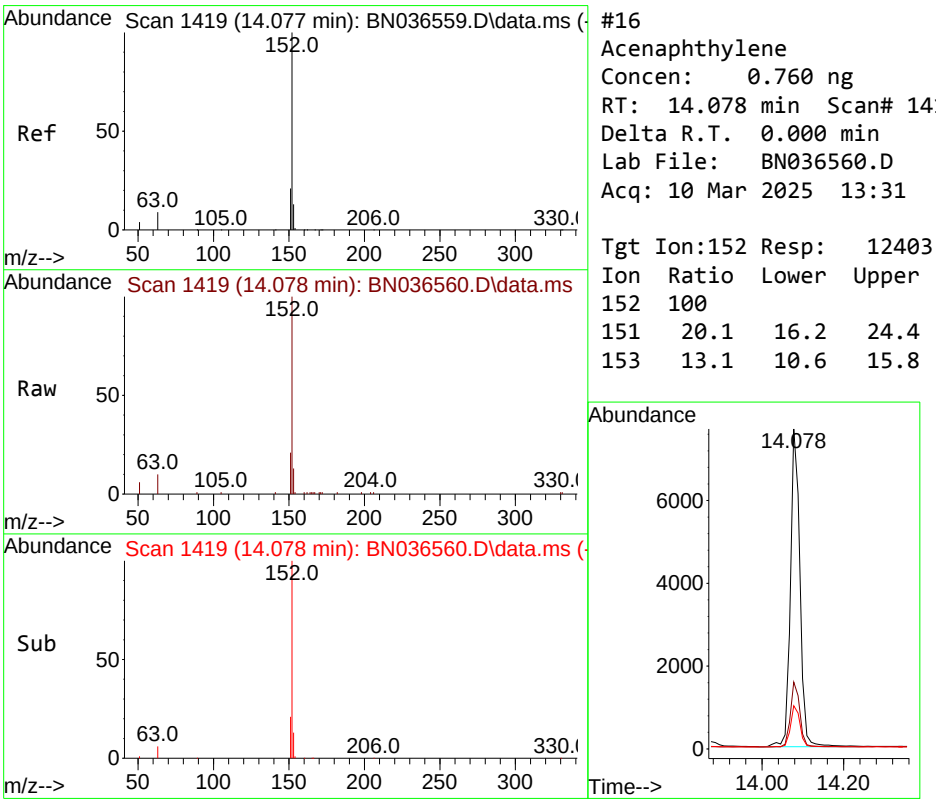


#15
2-Fluorobiphenyl
Concen: 0.808 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 16243

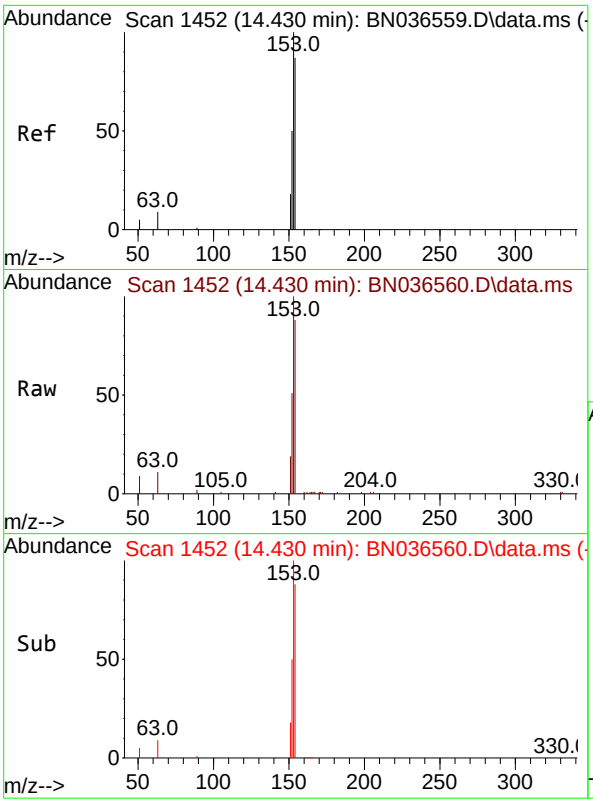
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	24.3	20.2	30.4



#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

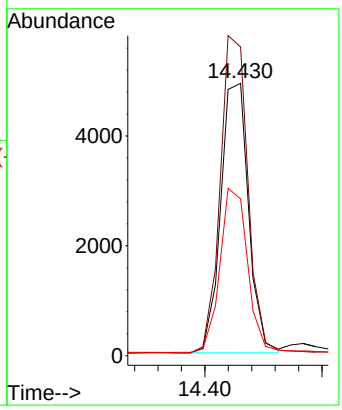


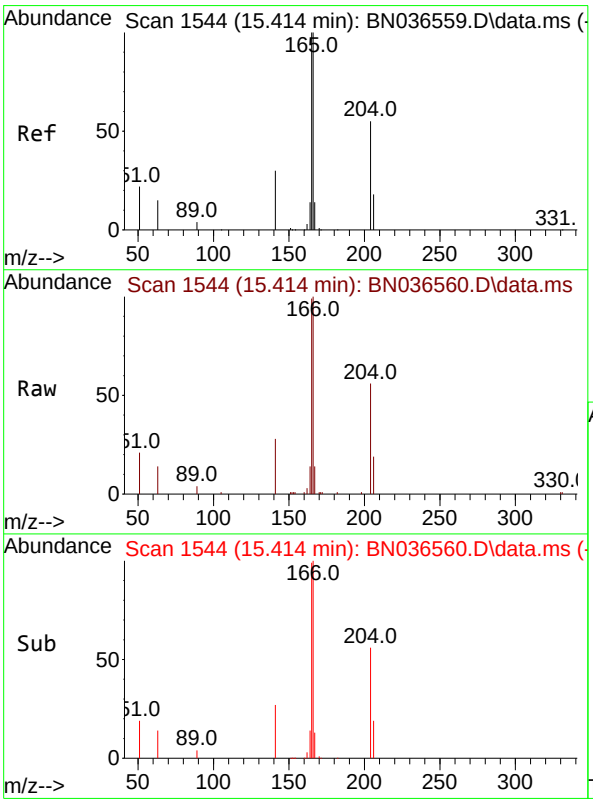
#17
Acenaphthene
Concen: 0.758 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

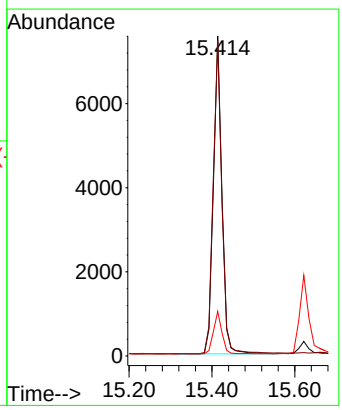


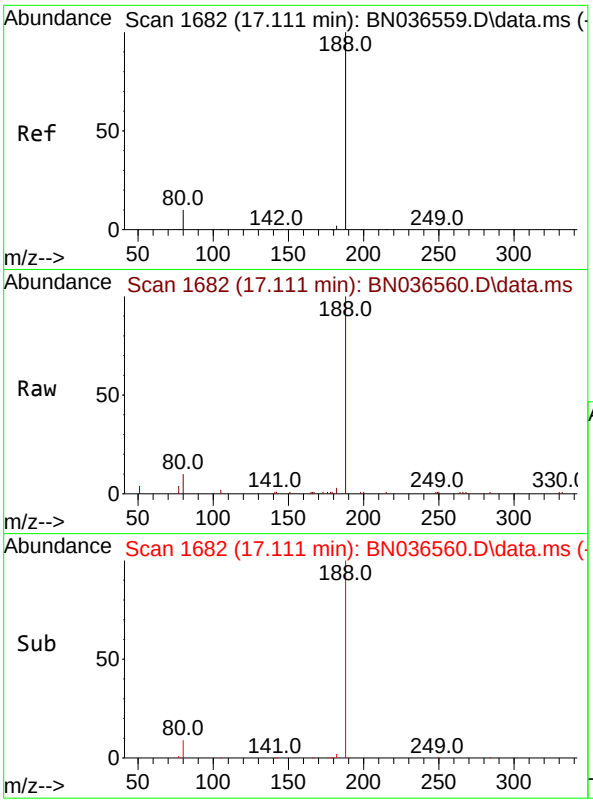


#18
Fluorene
Concen: 0.770 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



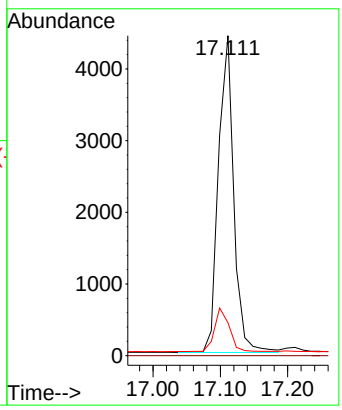


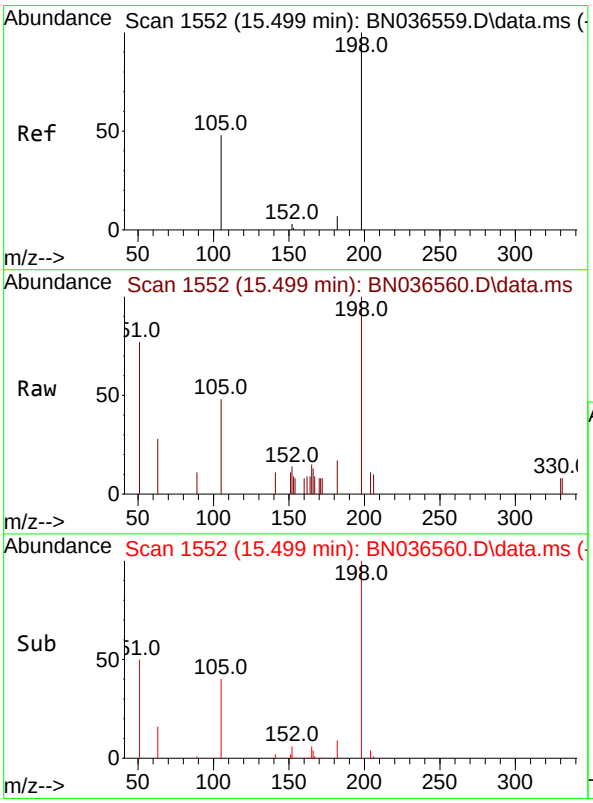
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

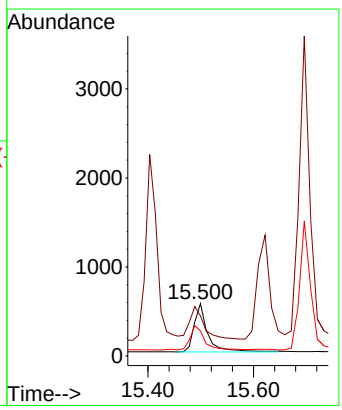


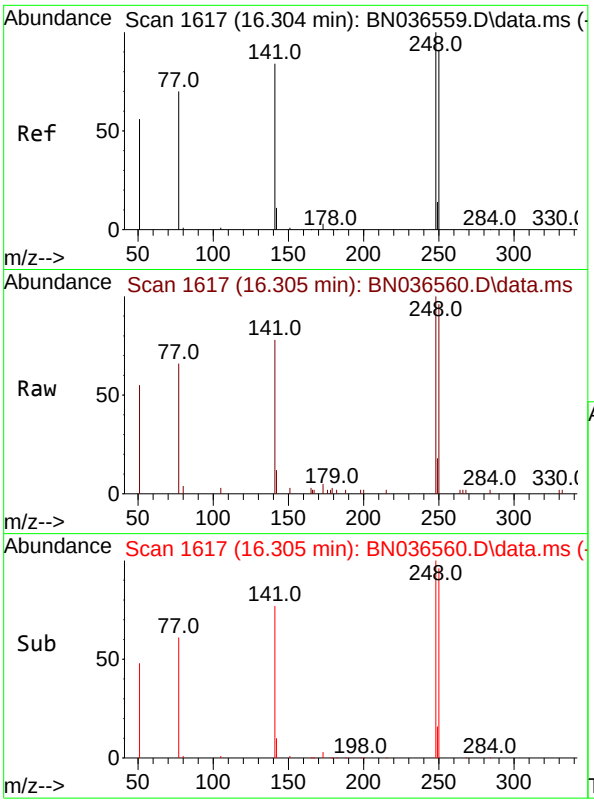


#20
4,6-Dinitro-2-methylphenol
Concen: 0.724 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#



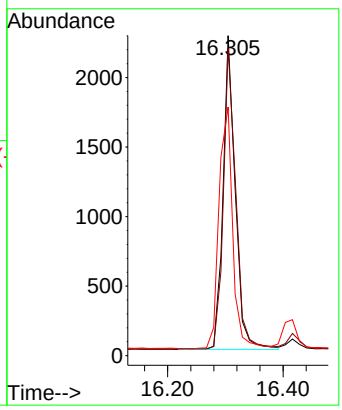


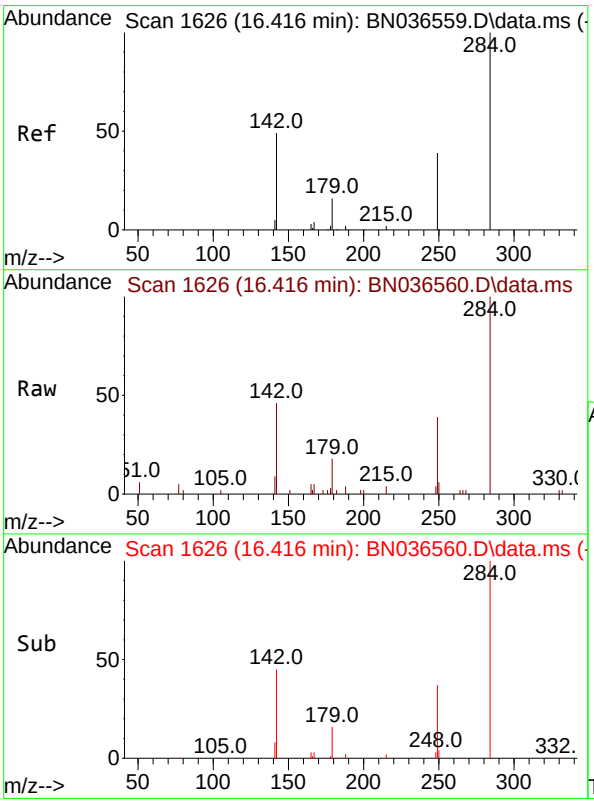
#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

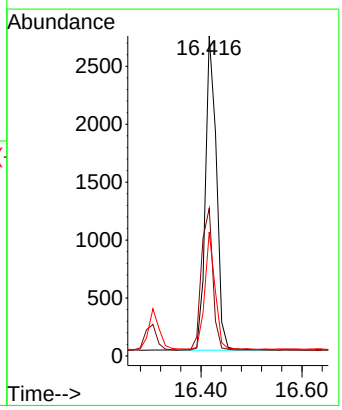


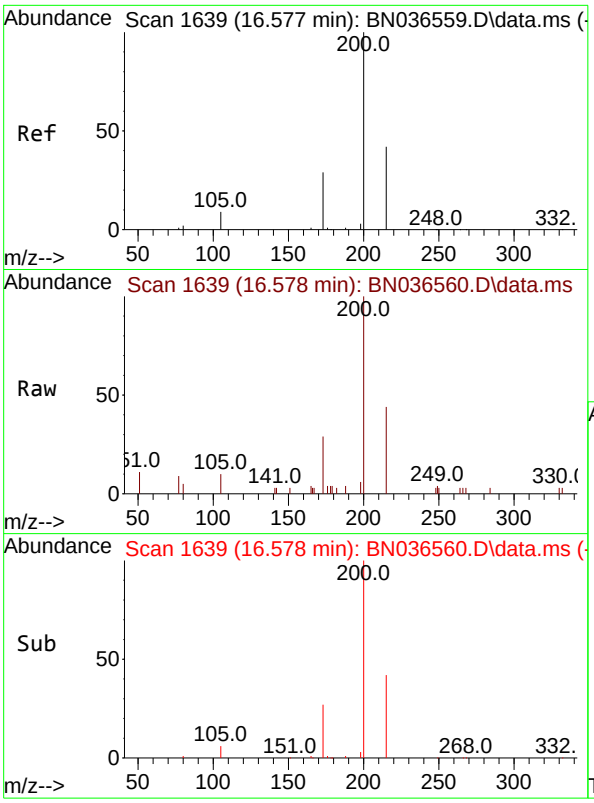


#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



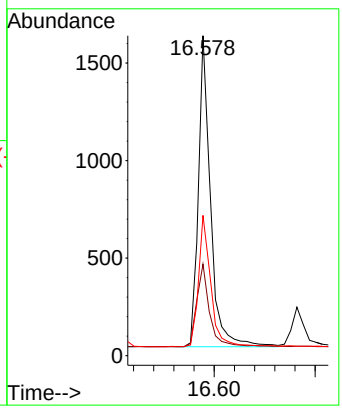


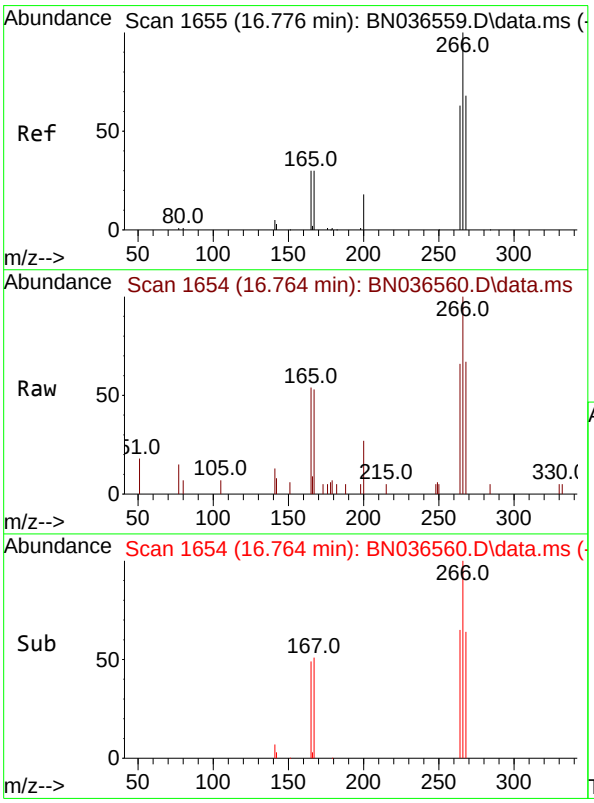
#23
Atrazine
Concen: 0.764 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

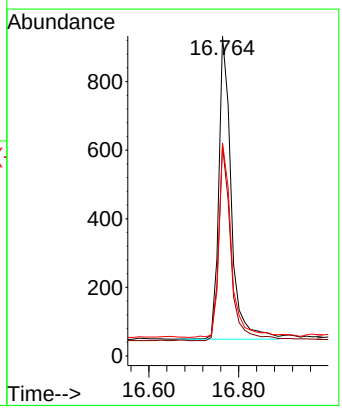


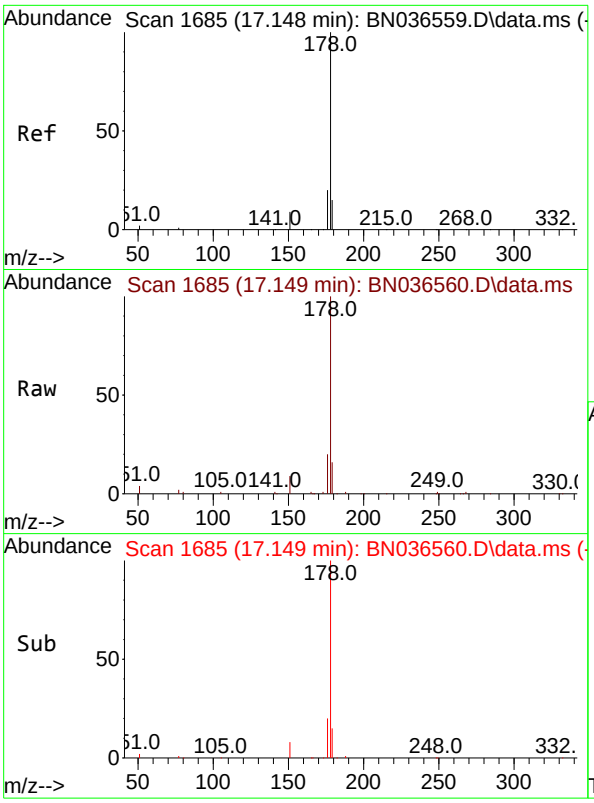


#24
Pentachlorophenol
Concen: 0.707 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



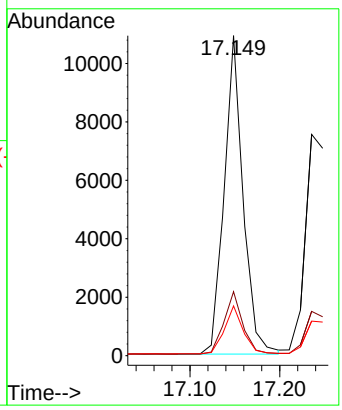


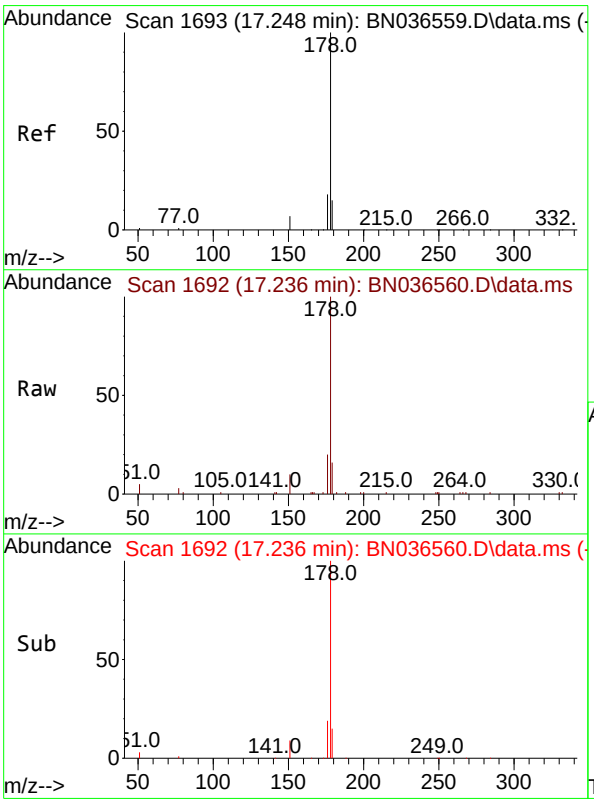
#25
Phenanthrene
Concen: 0.761 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

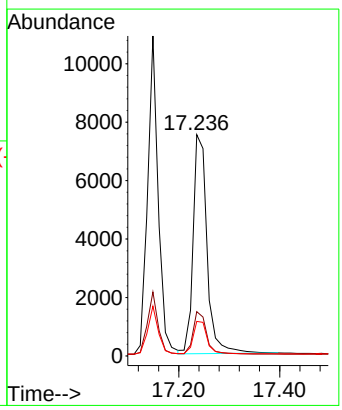


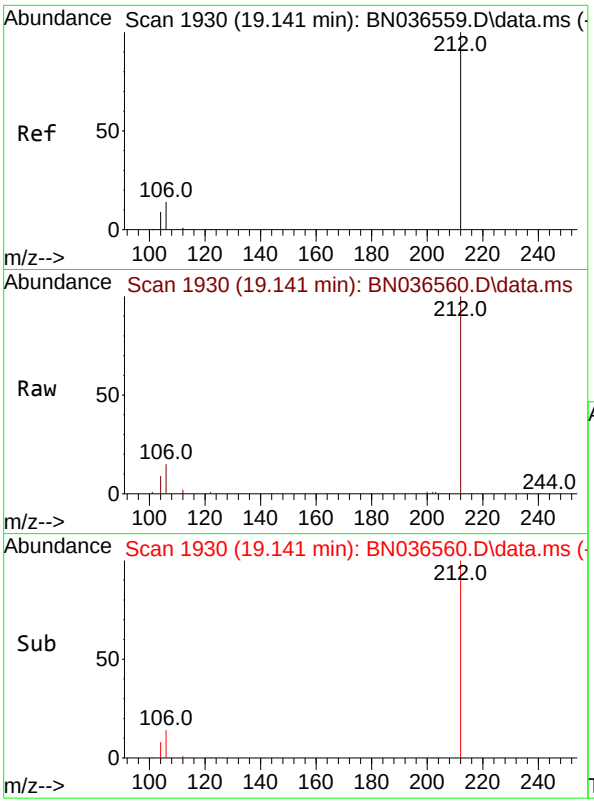


#26
Anthracene
Concen: 0.763 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



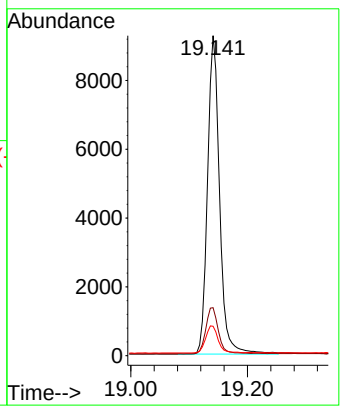


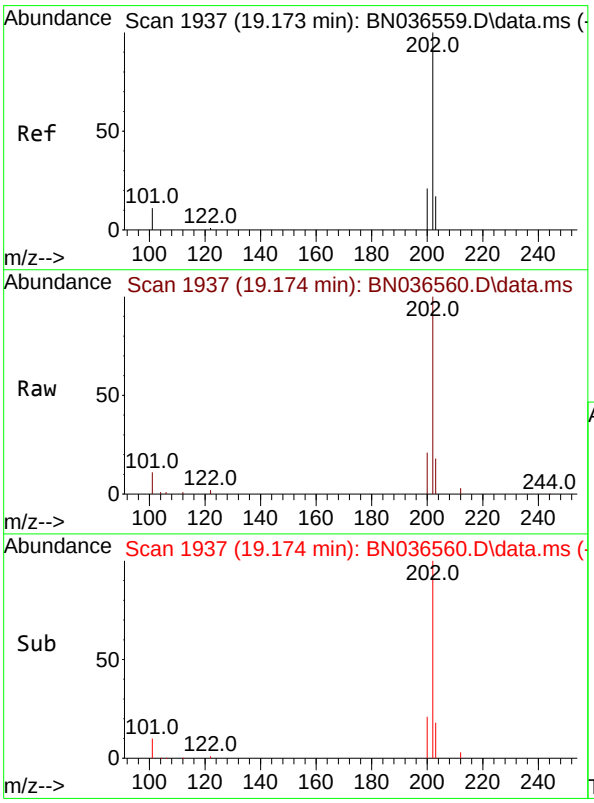
#27
Fluoranthene-d10
Concen: 0.746 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

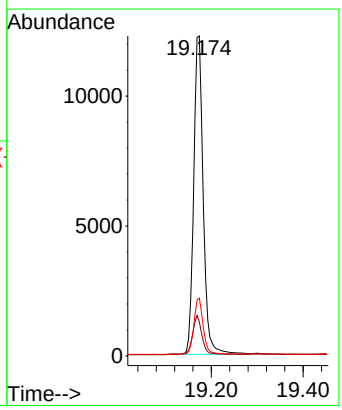


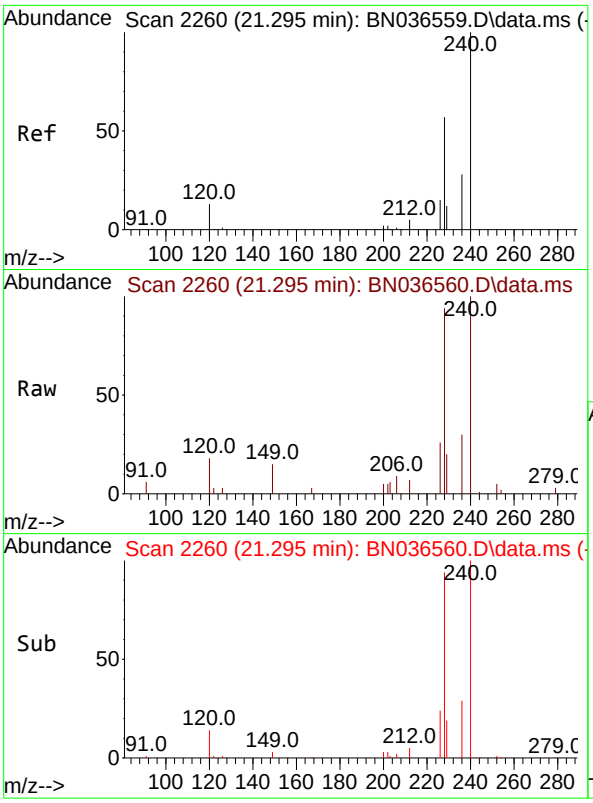


#28
Fluoranthene
Concen: 0.755 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



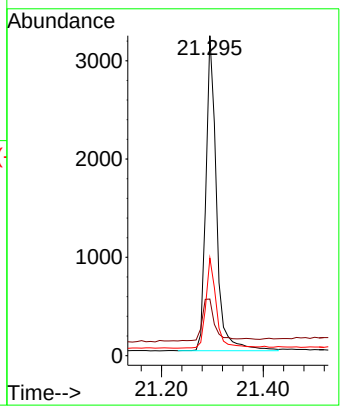


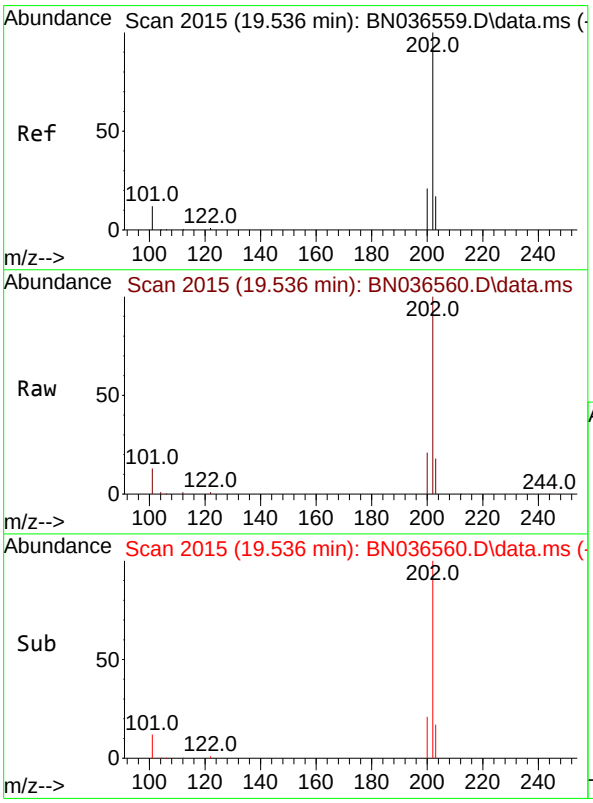
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

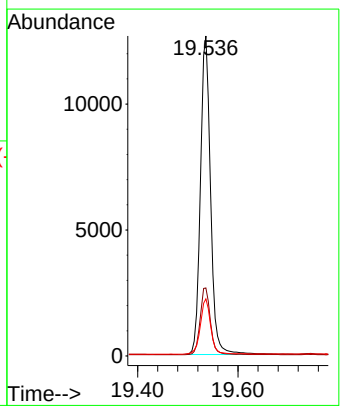


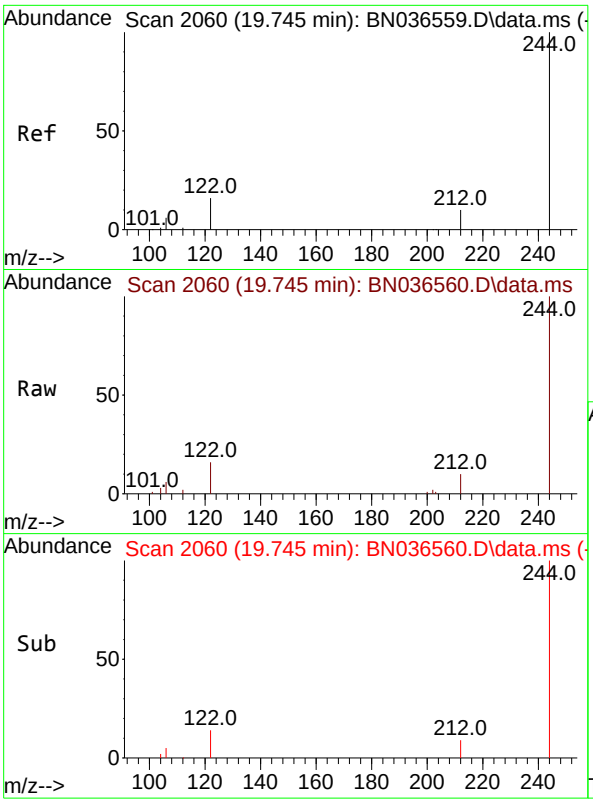


#30
Pyrene
Concen: 0.781 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



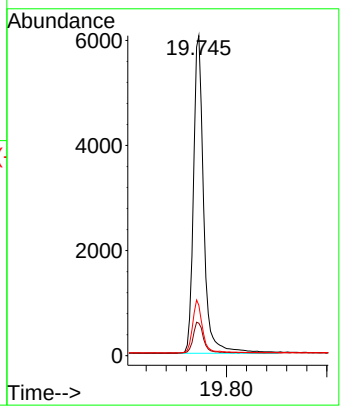


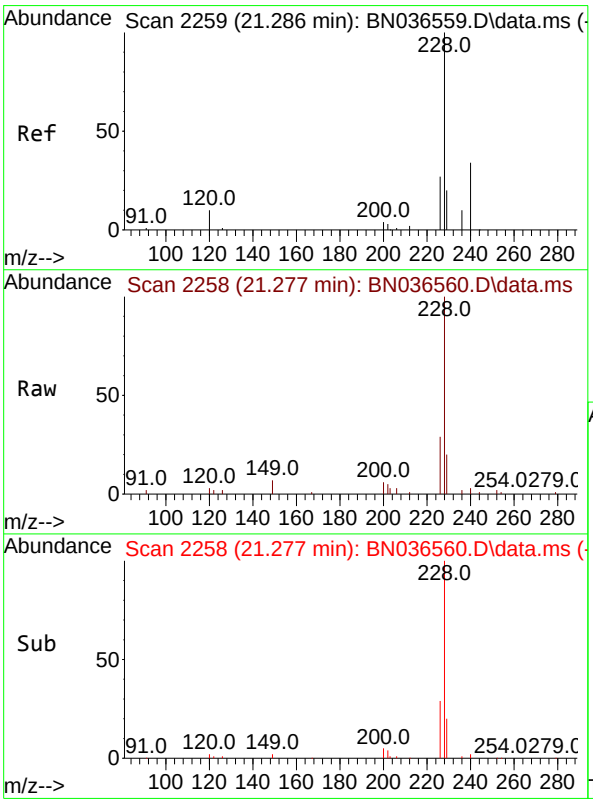
#31
Terphenyl-d14
Concen: 0.772 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

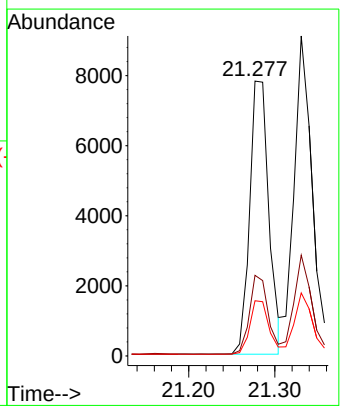


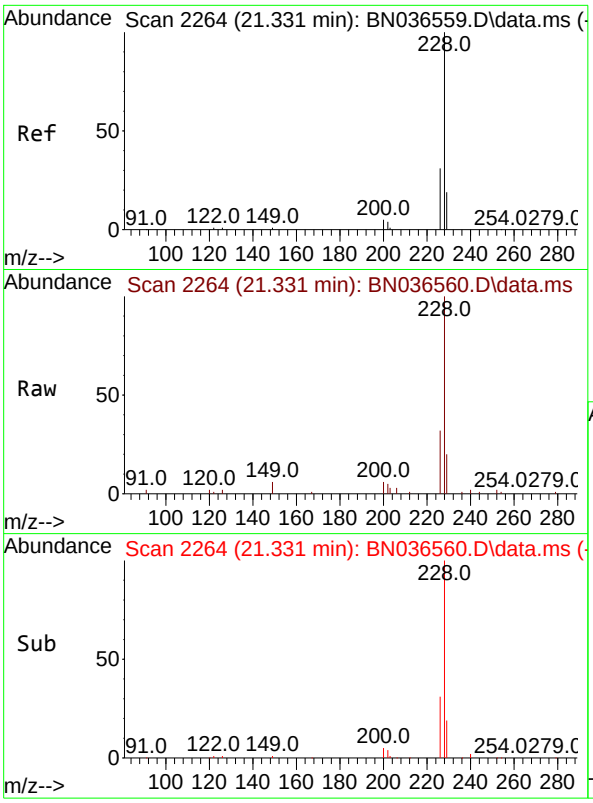


#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



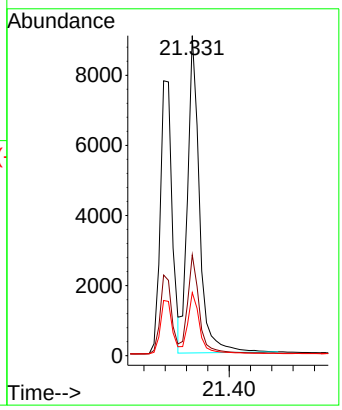


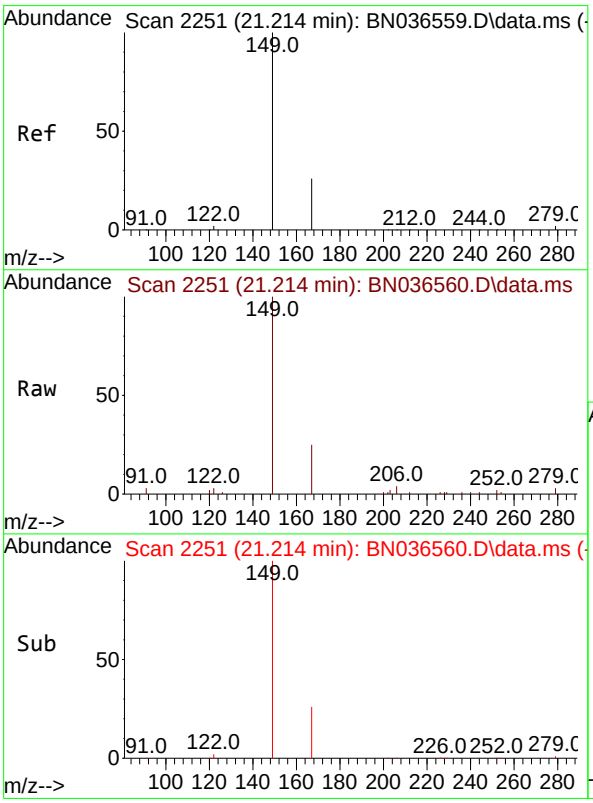
#33
Chrysene
Concen: 0.793 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

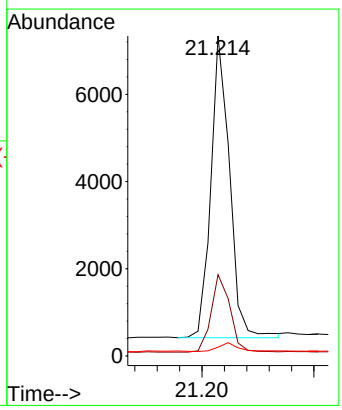


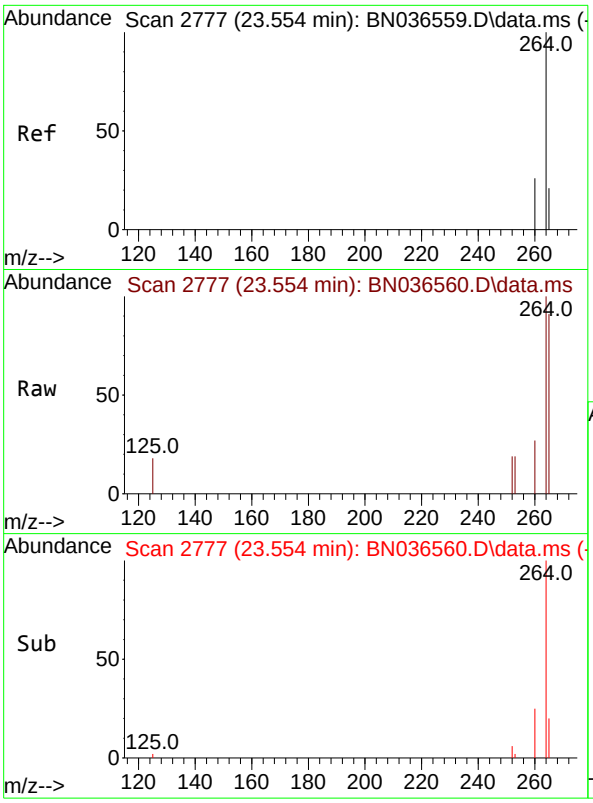


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.699 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#



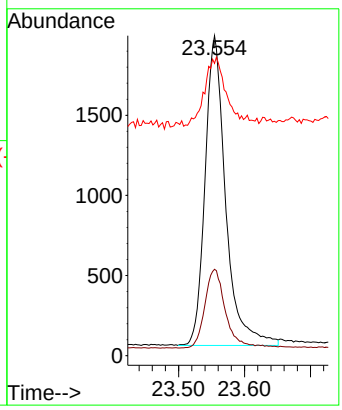


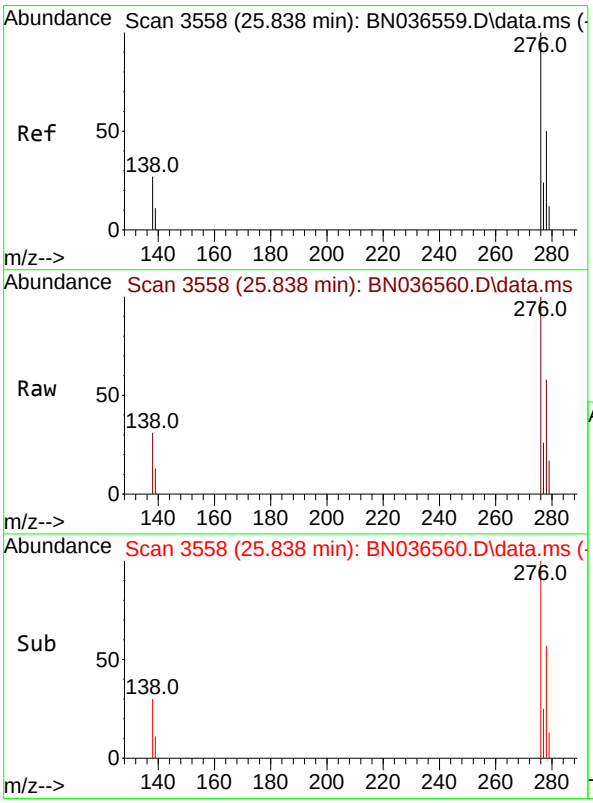
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

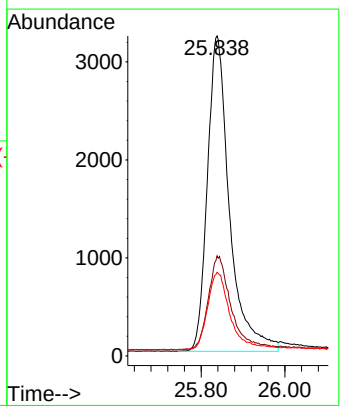


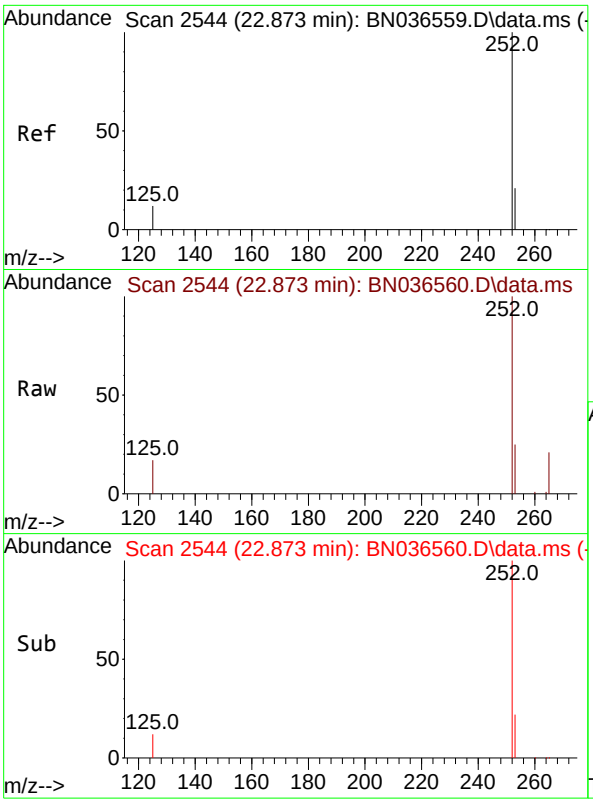


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.778 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



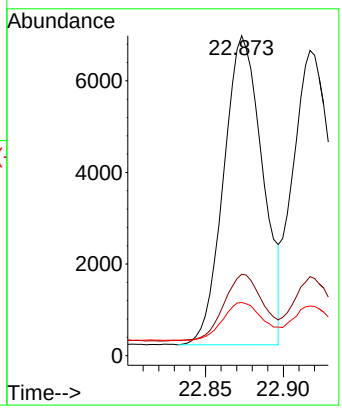


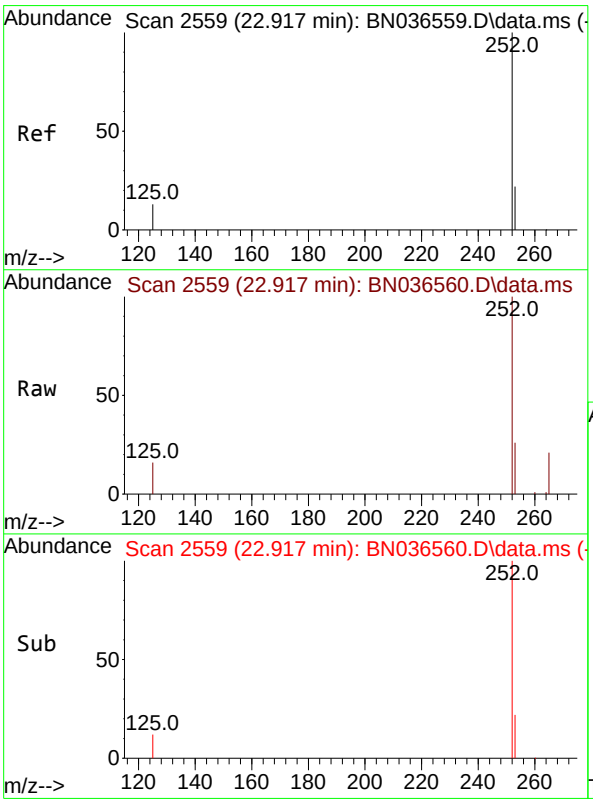
#37
Benzo(b)fluoranthene
Concen: 0.770 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#

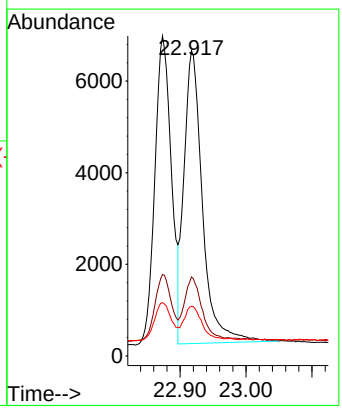


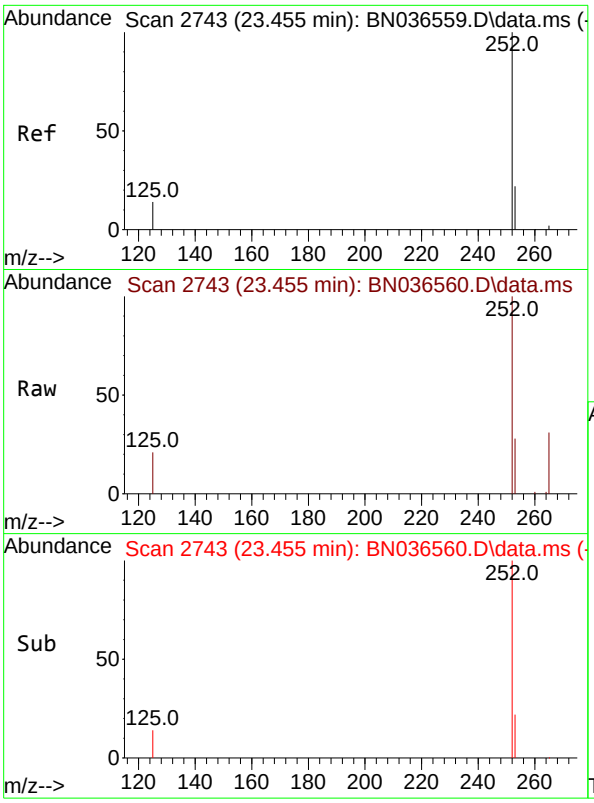


#38
Benzo(k)fluoranthene
Concen: 0.776 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#



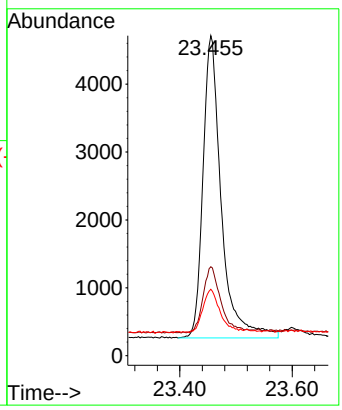


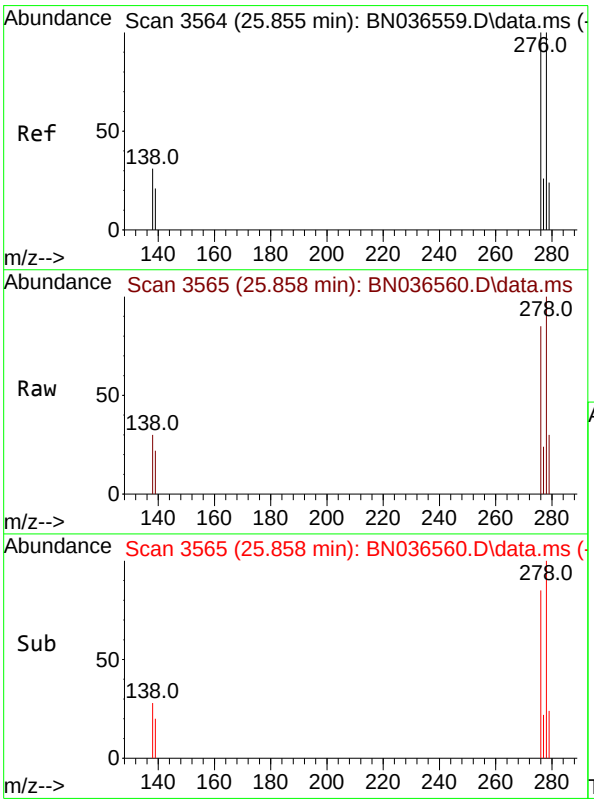
#39
Benzo(a)pyrene
Concen: 0.780 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#

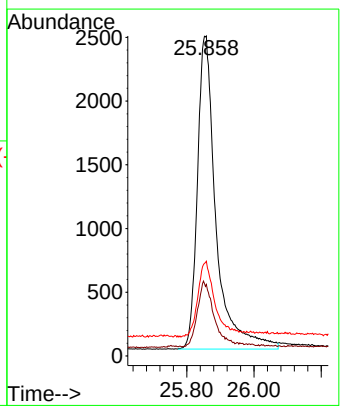


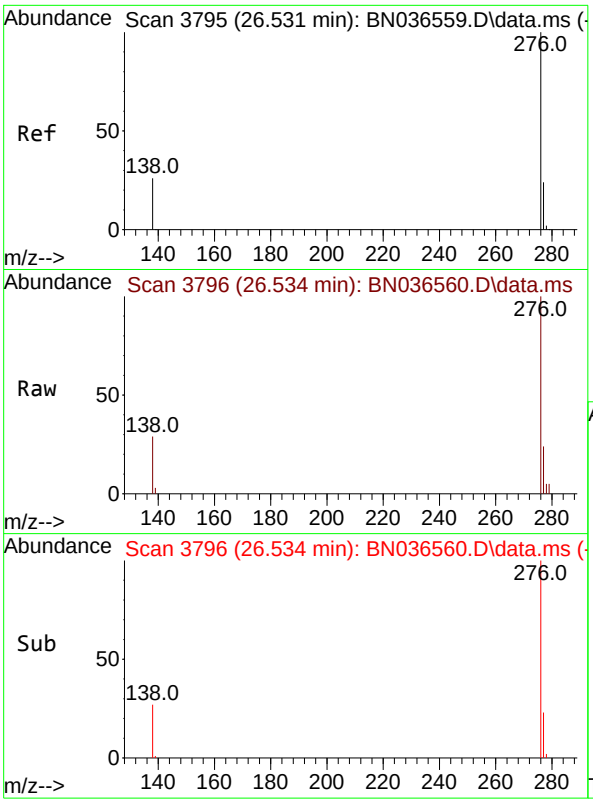


#40
Dibenzo(a,h)anthracene
Concen: 0.801 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



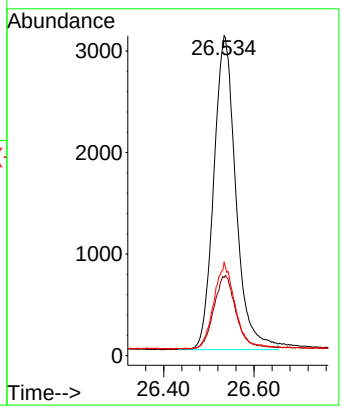


#41
Benzo(g,h,i)perylene
Concen: 0.778 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

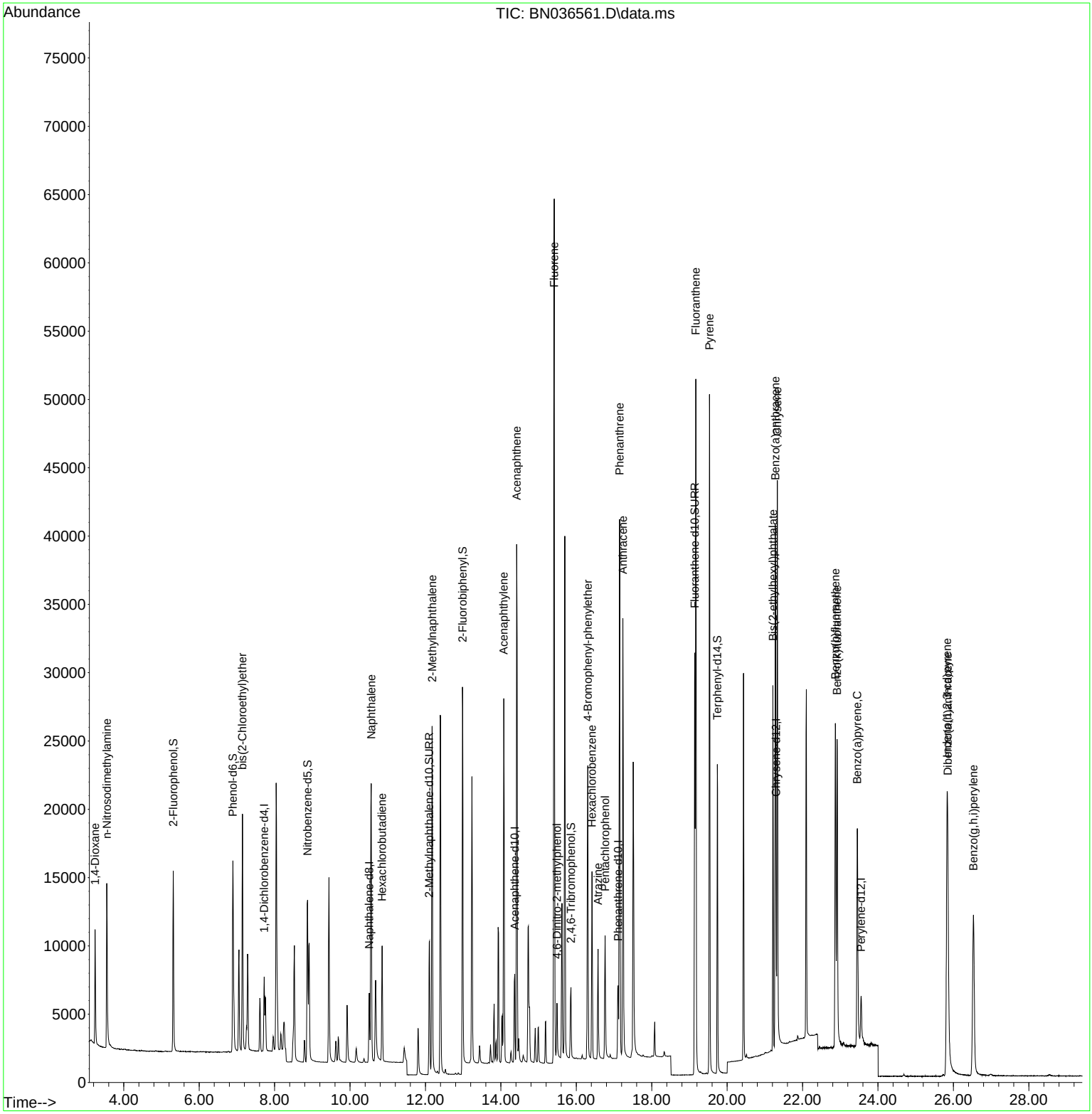
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng		0.00
29) Chrysene-d12	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

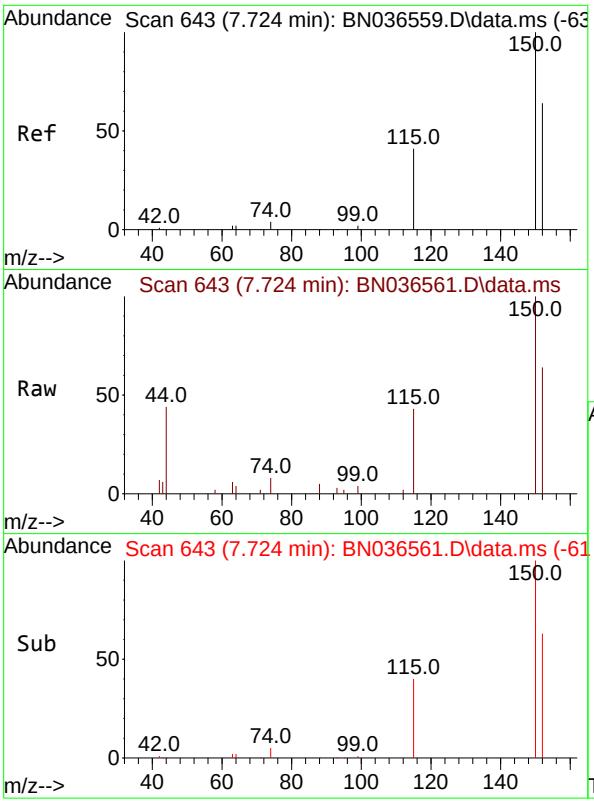
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



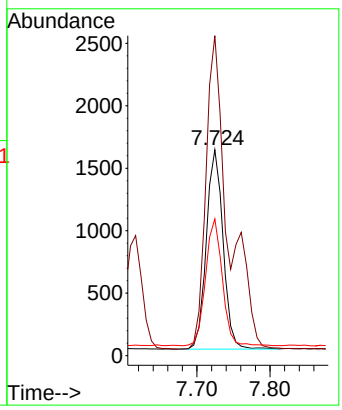


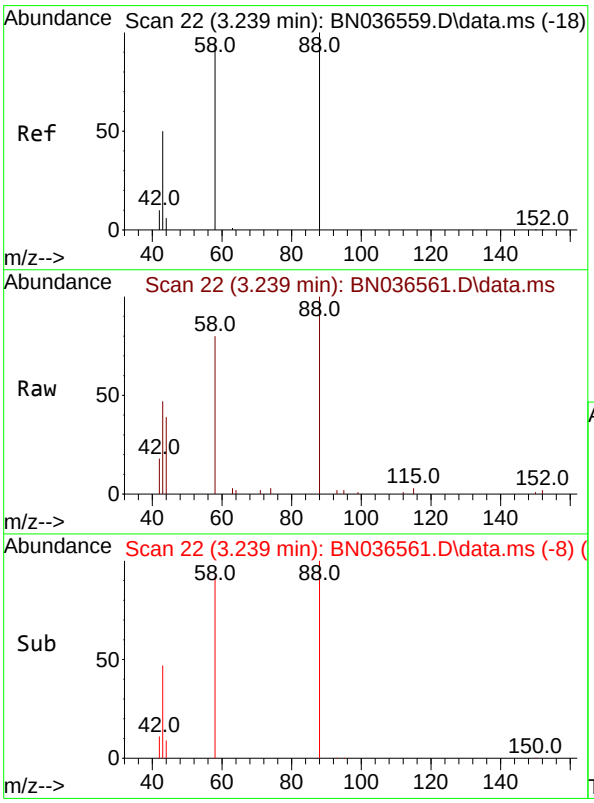
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

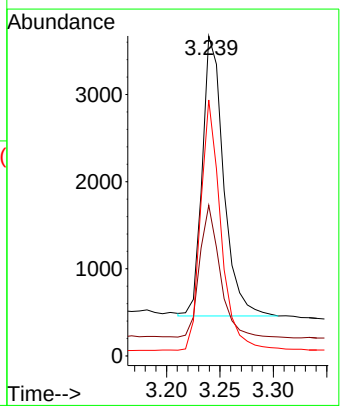


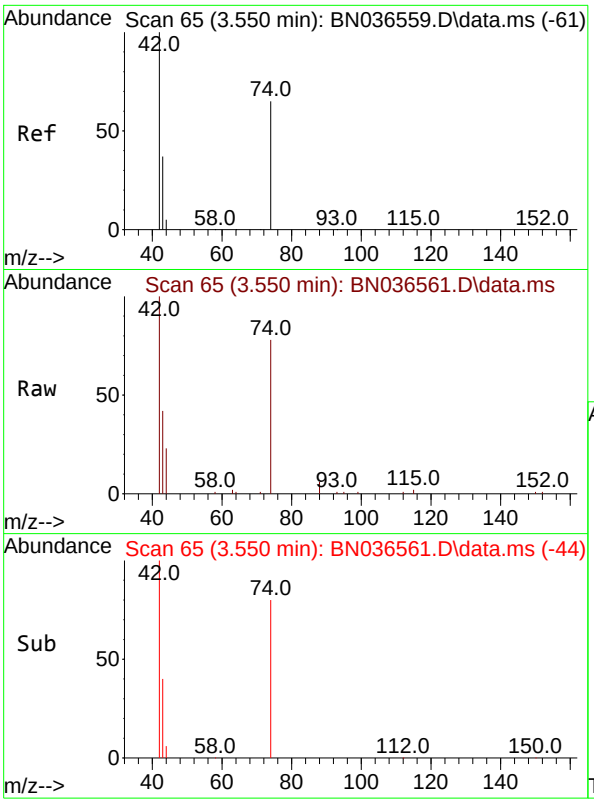


#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



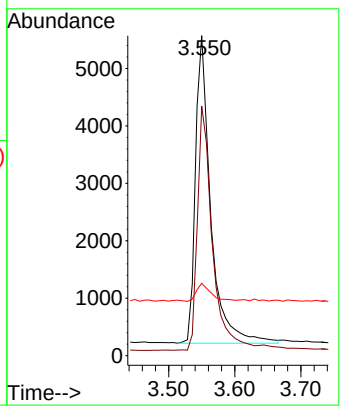


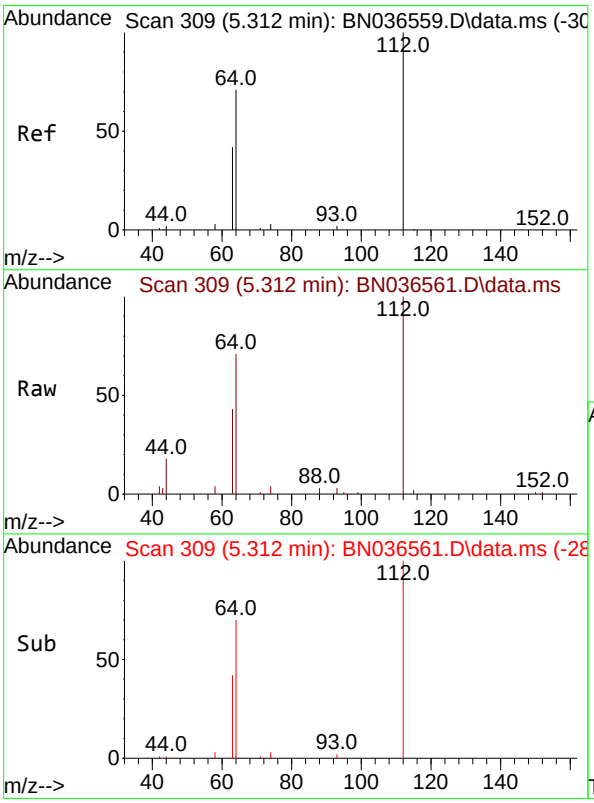
#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

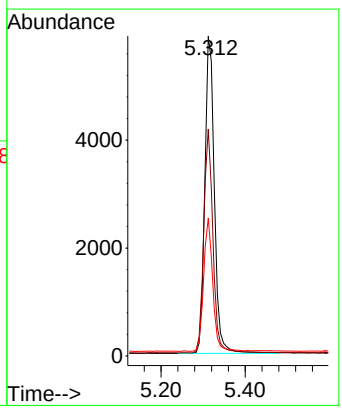


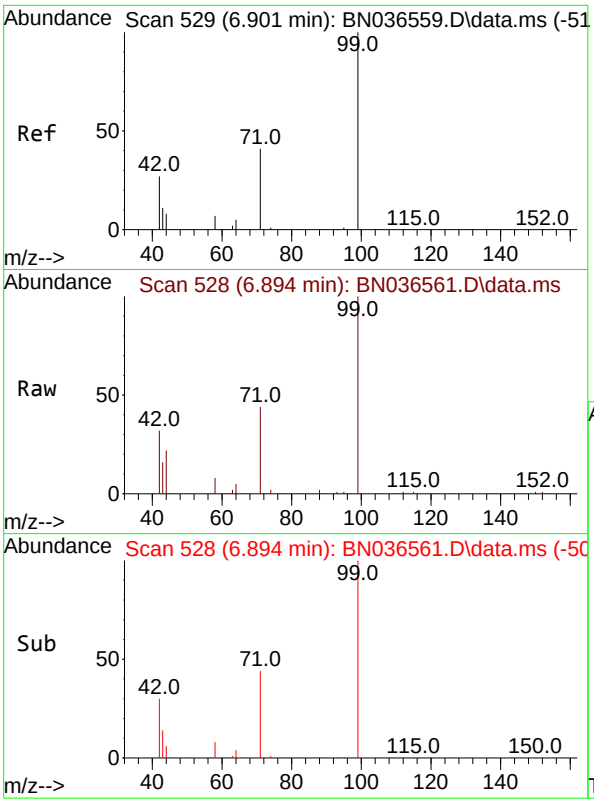


#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



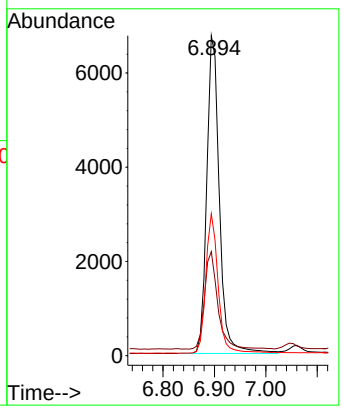


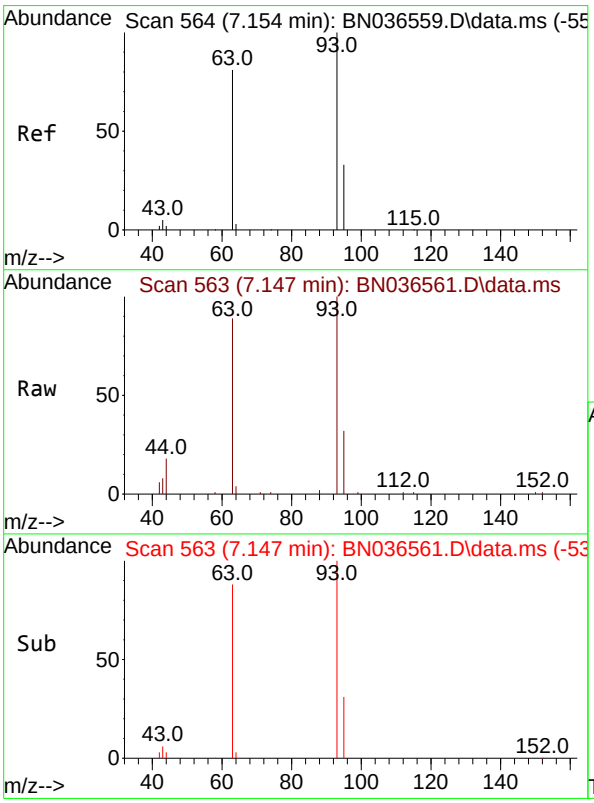
#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

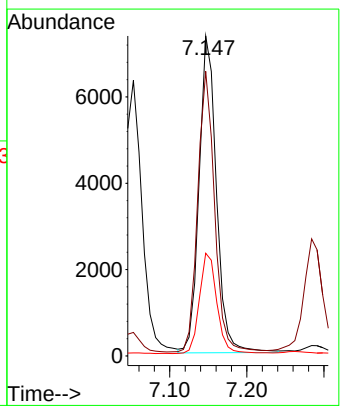


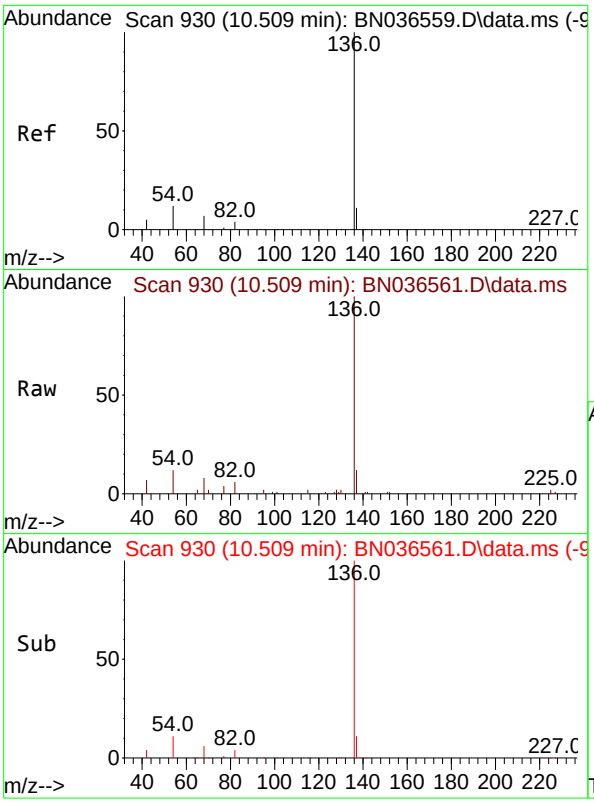


#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



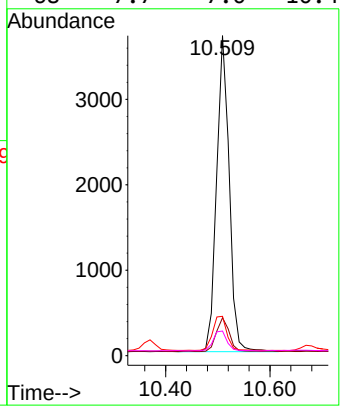


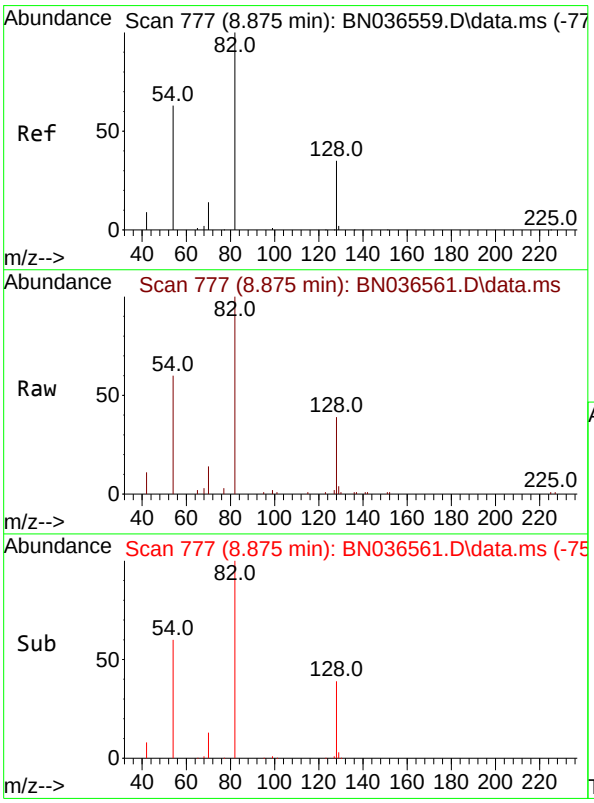
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

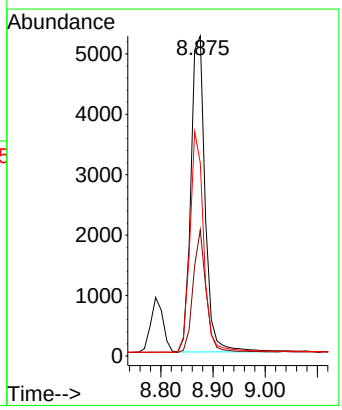


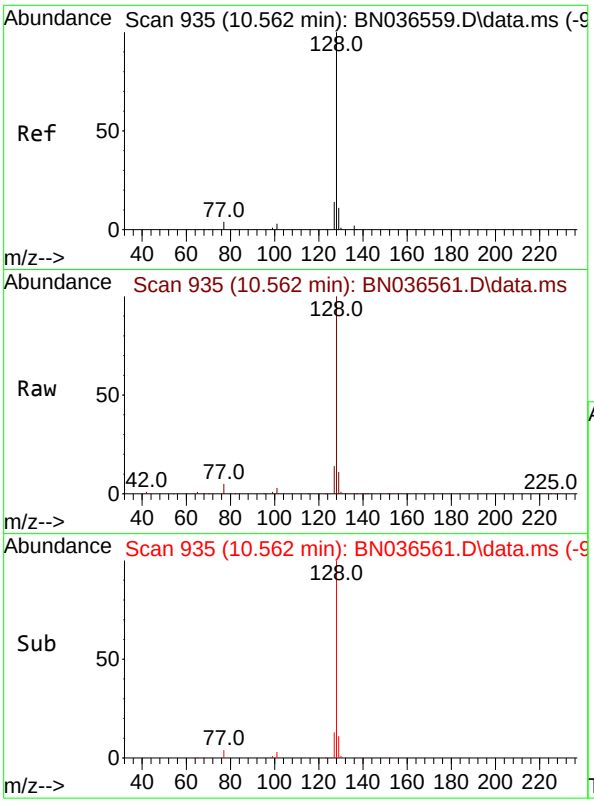


#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



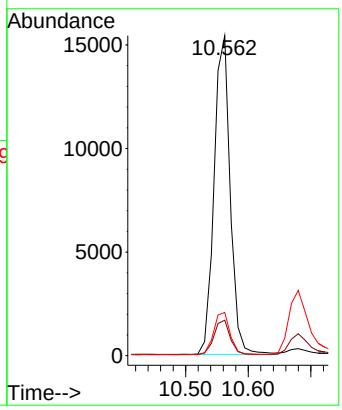


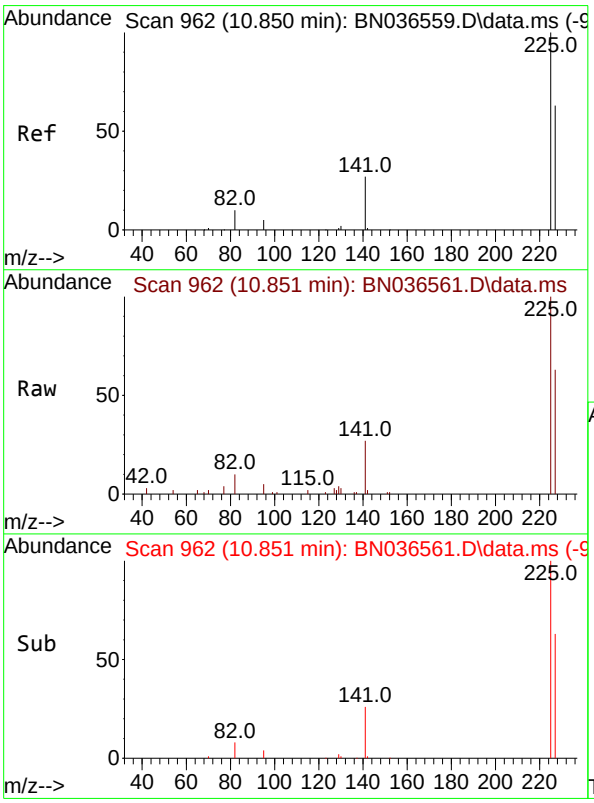
#9
Naphthalene
Concen: 1.506 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

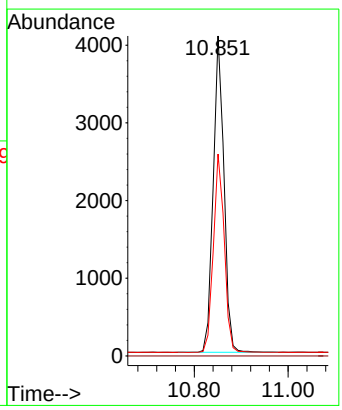


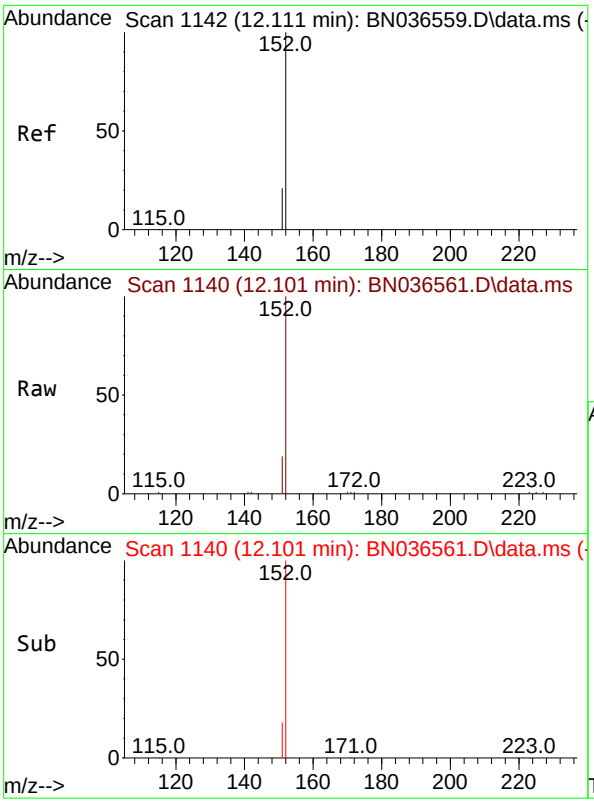


#10
Hexachlorobutadiene
Concen: 1.506 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



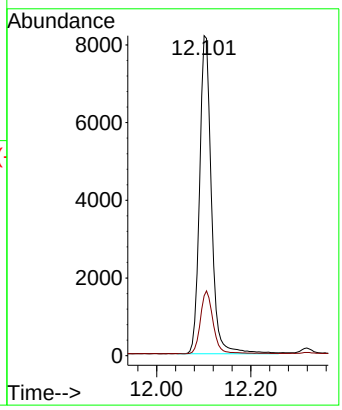


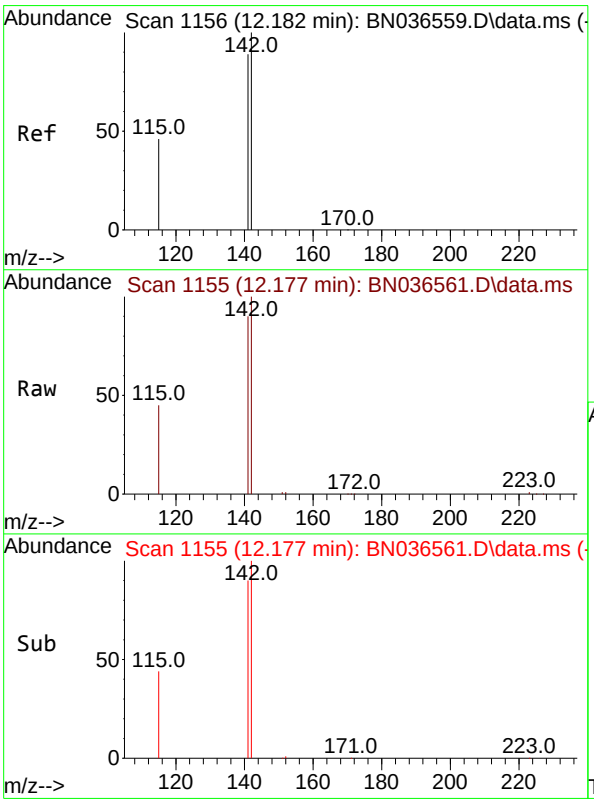
#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 14319

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

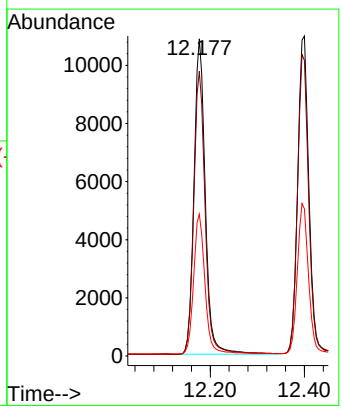


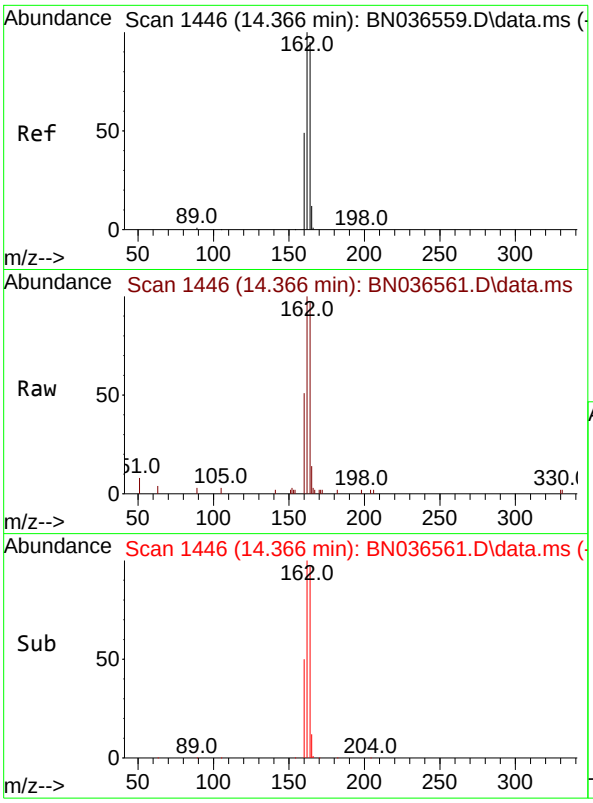


#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



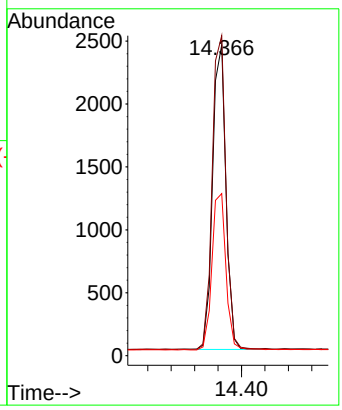


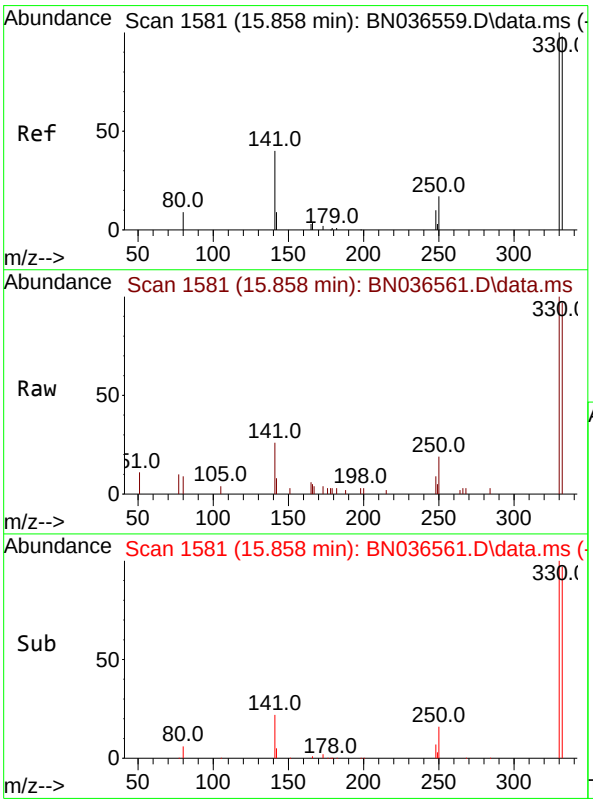
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

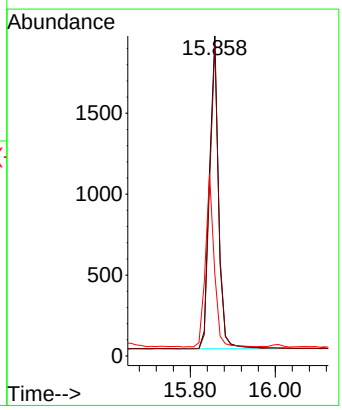


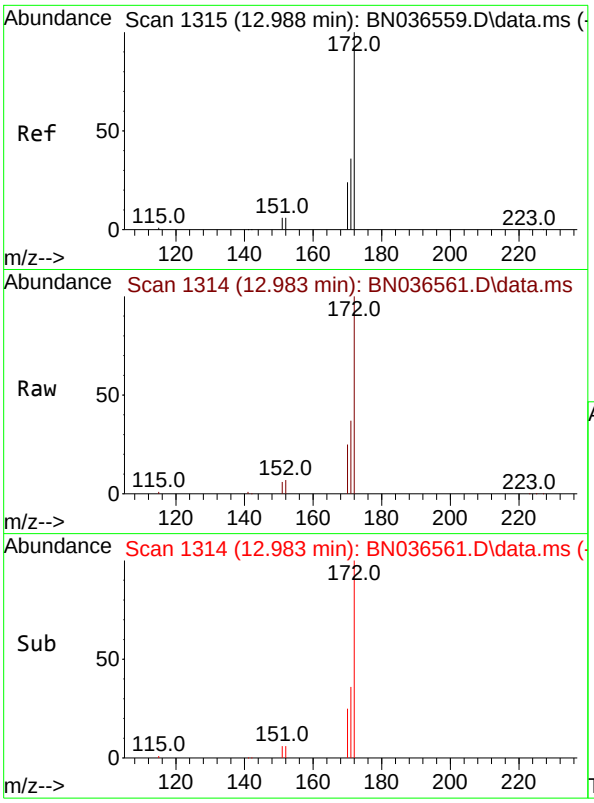


#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



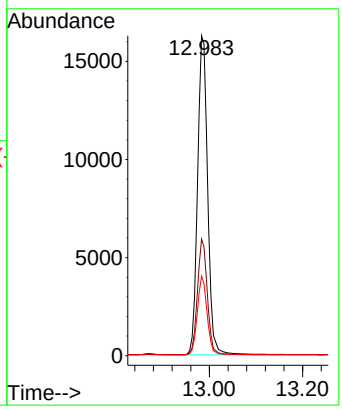


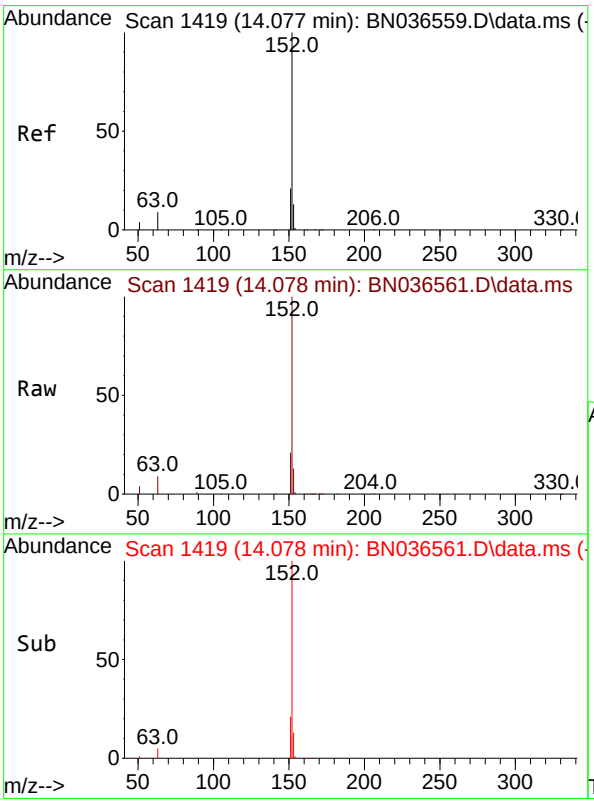
#15
2-Fluorobiphenyl
Concen: 1.626 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

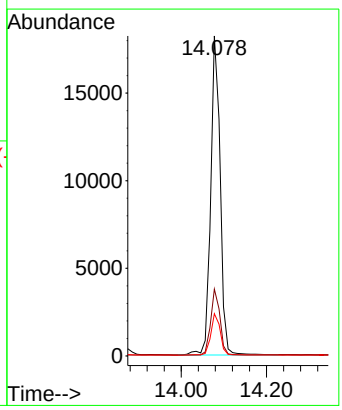


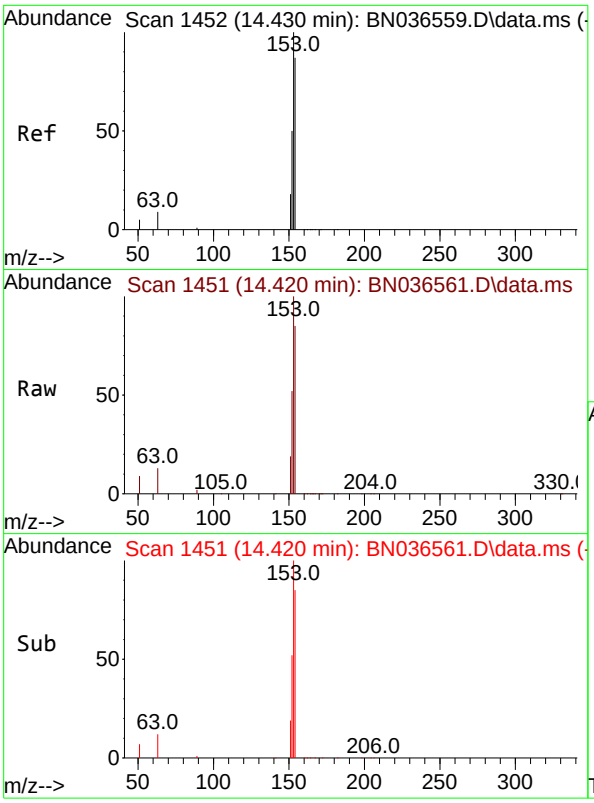


#16
Acenaphthylene
Concen: 1.555 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



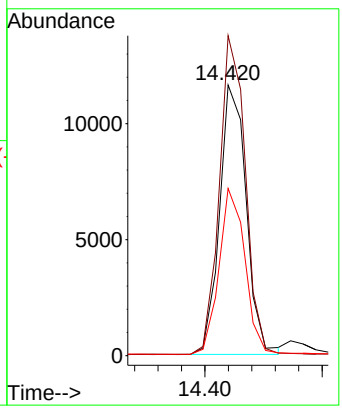


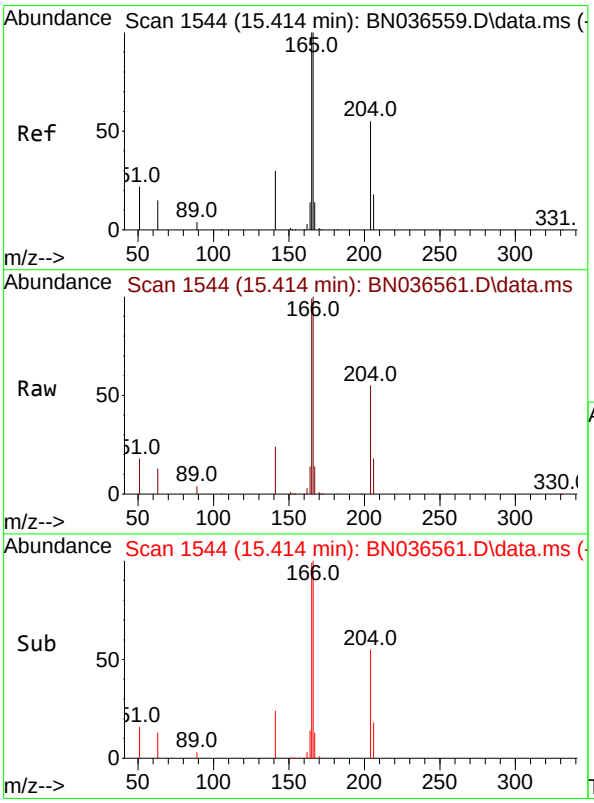
#17
Acenaphthene
Concen: 1.553 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

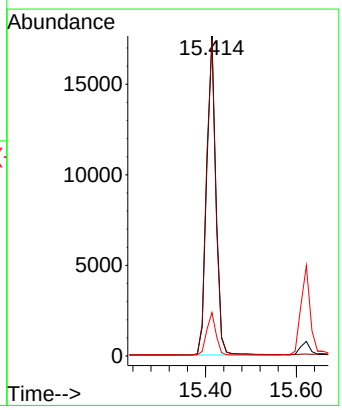


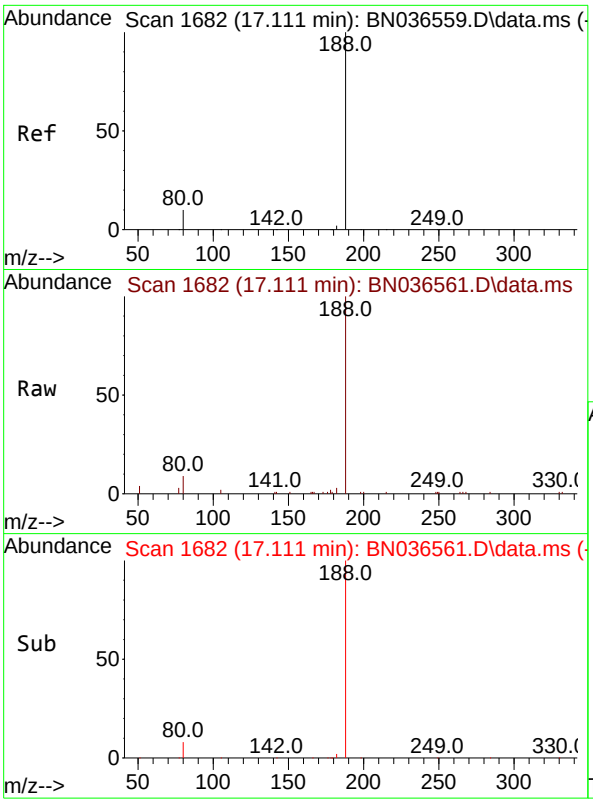


#18
Fluorene
Concen: 1.599 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



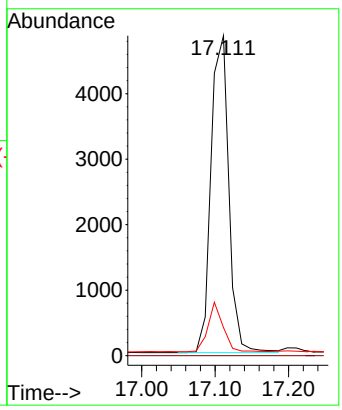


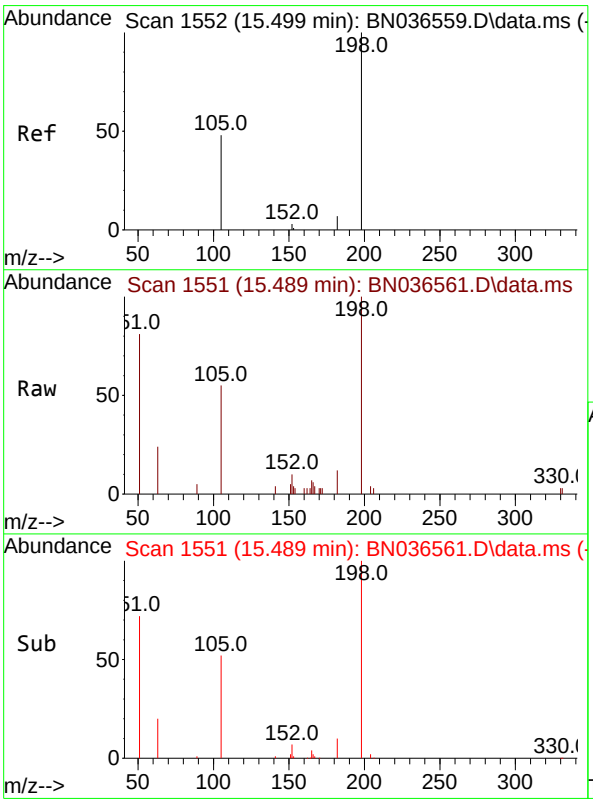
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

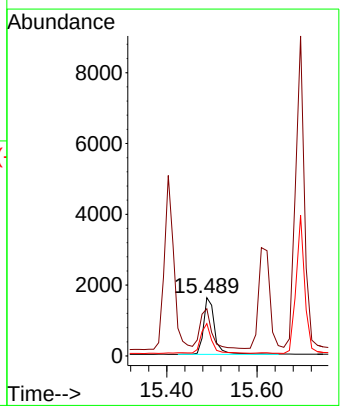


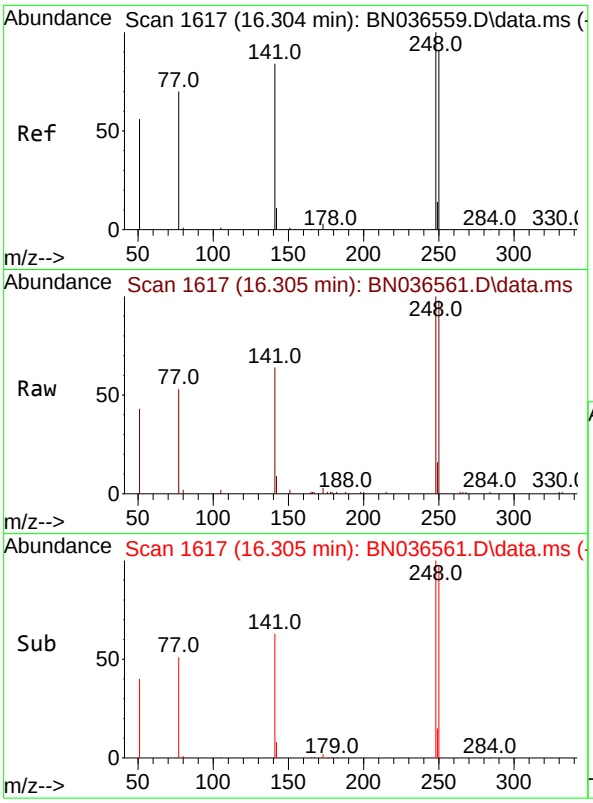


#20
4,6-Dinitro-2-methylphenol
Concen: 1.488 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#



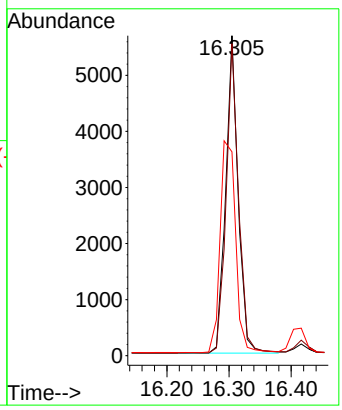


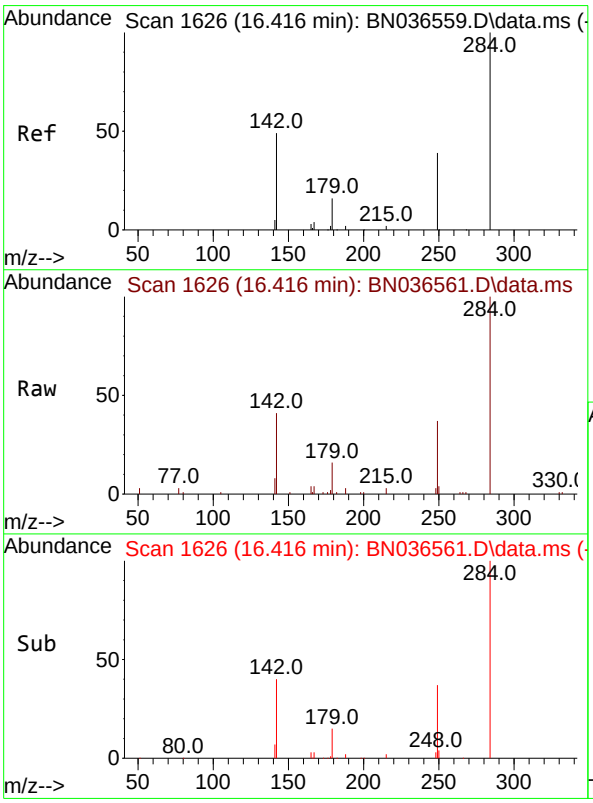
#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

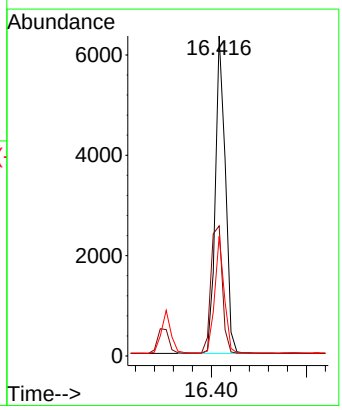


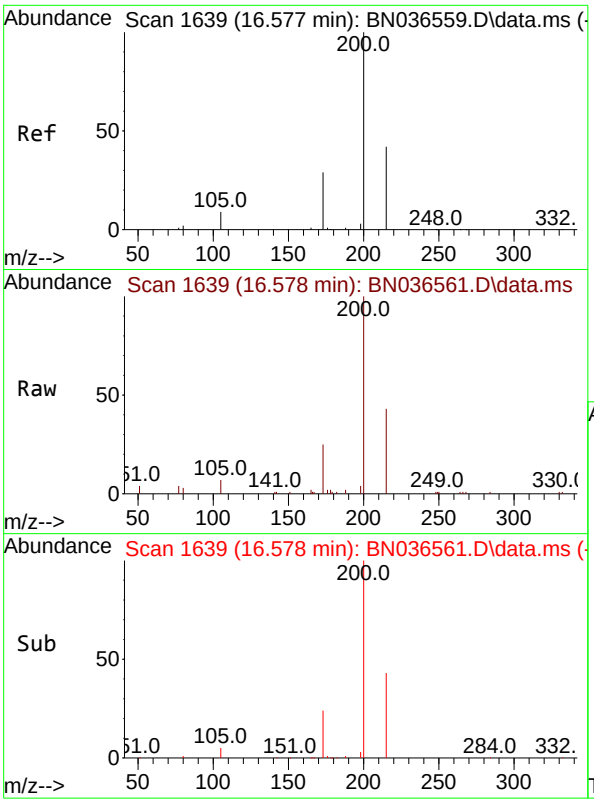


#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



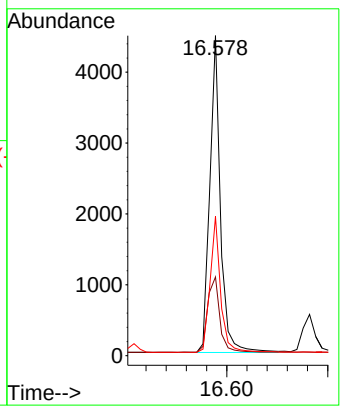


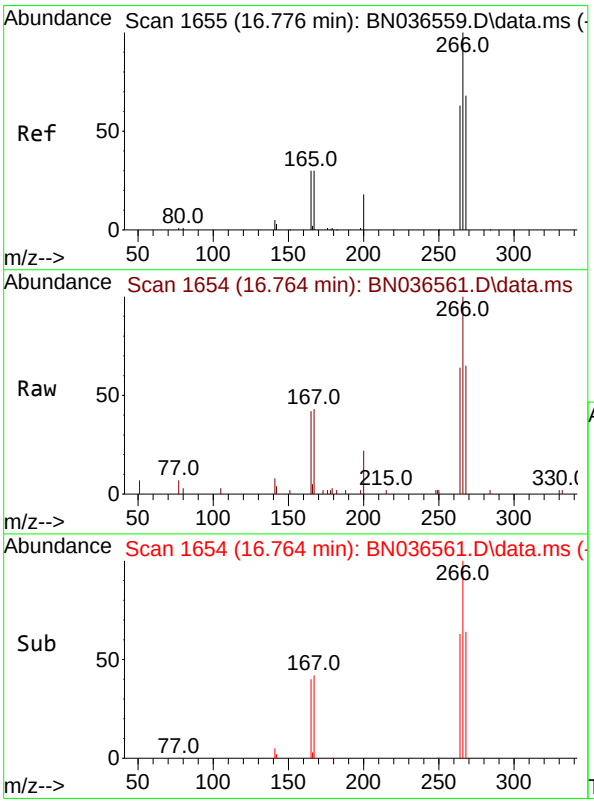
#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

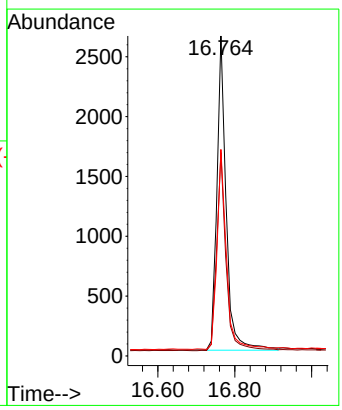


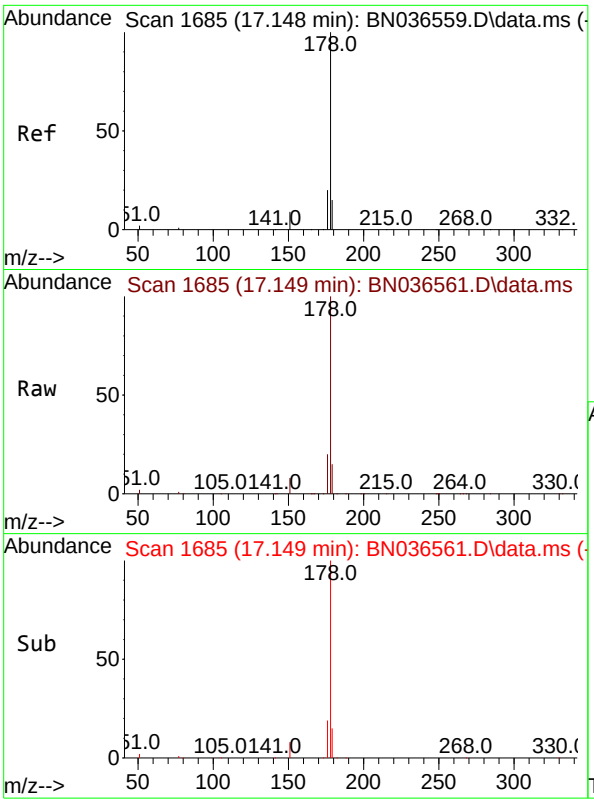


#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



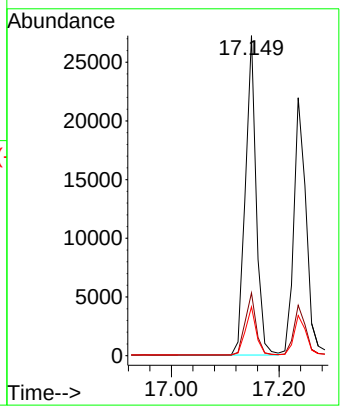


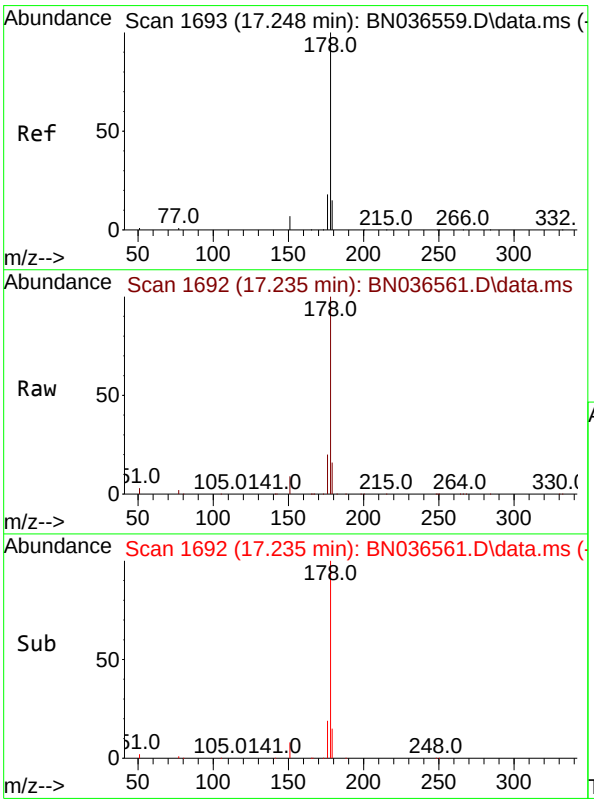
#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

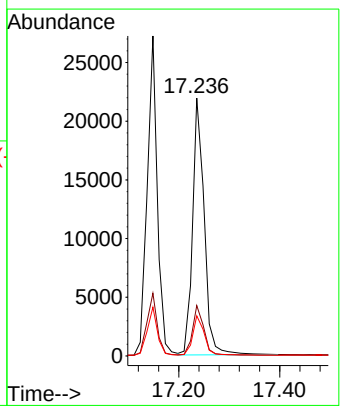


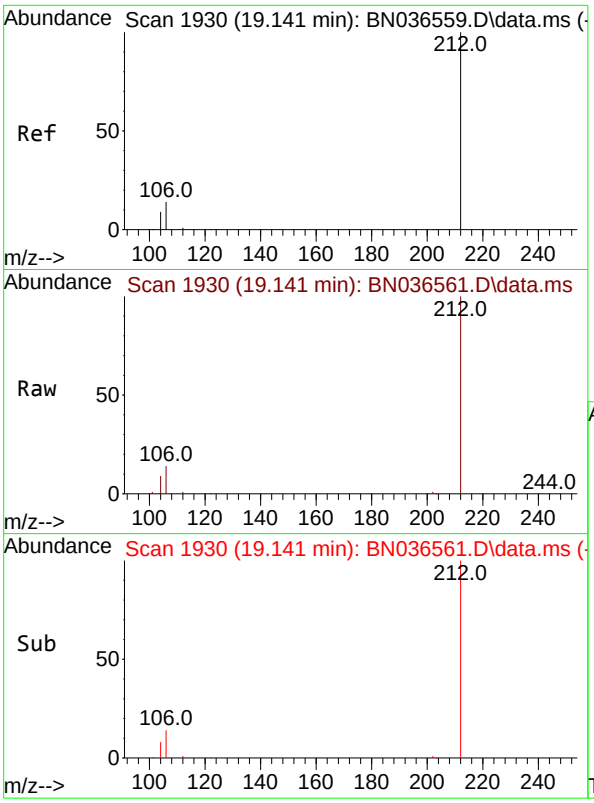


#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



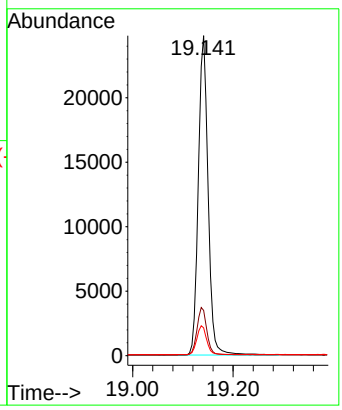


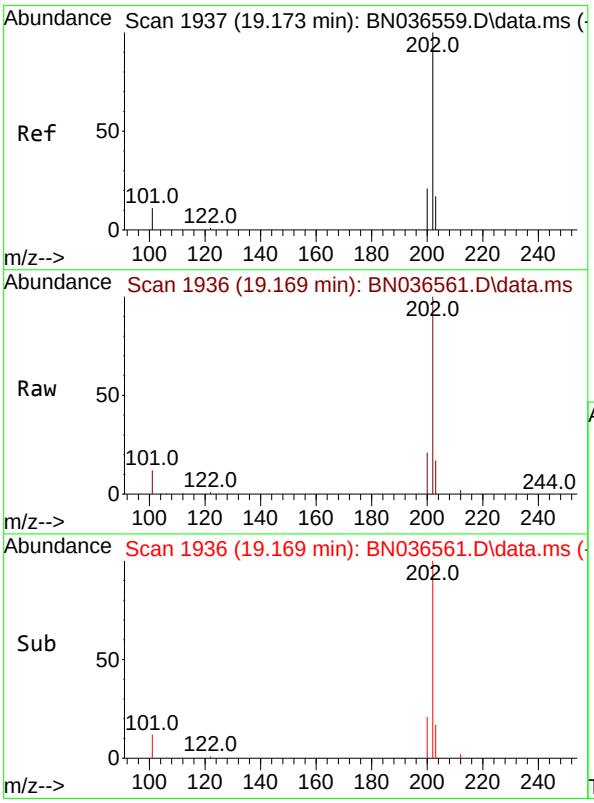
#27
Fluoranthene-d10
Concen: 1.600 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

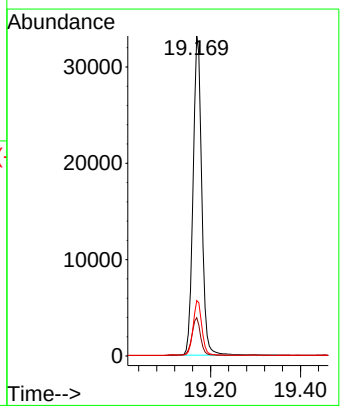


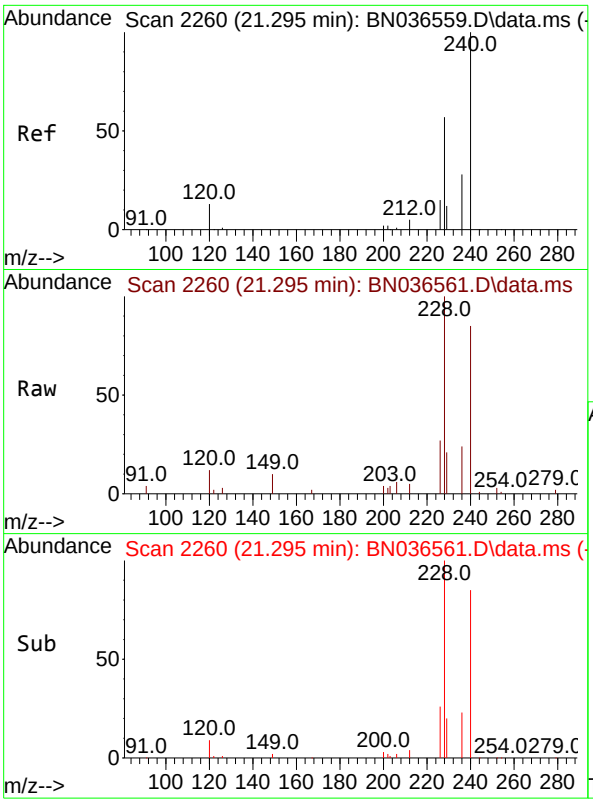


#28
Fluoranthene
Concen: 1.619 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



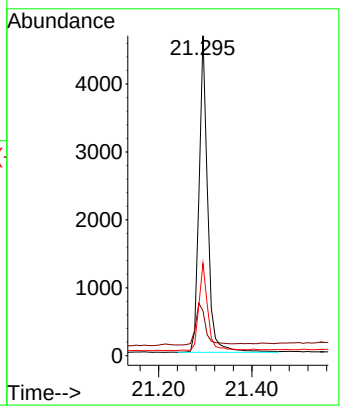


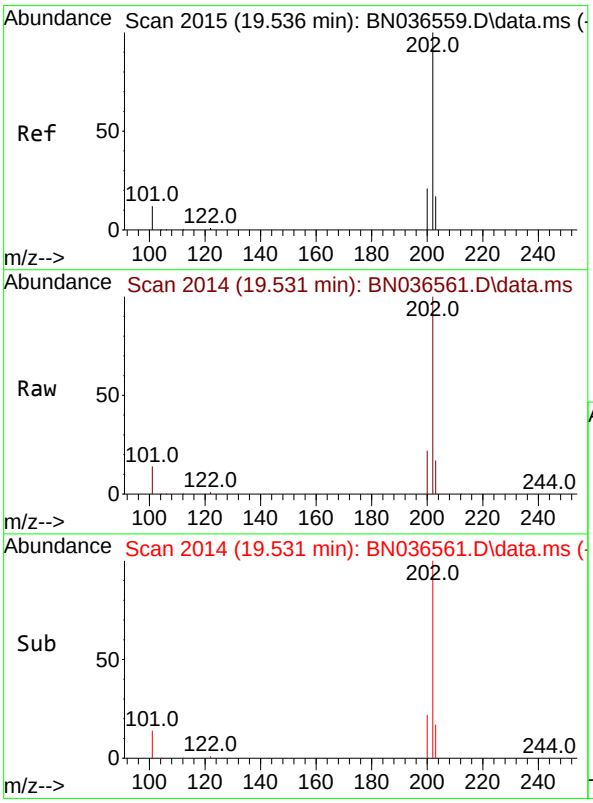
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

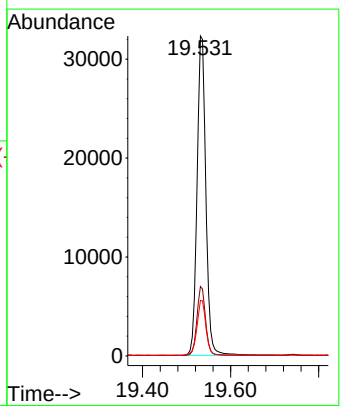


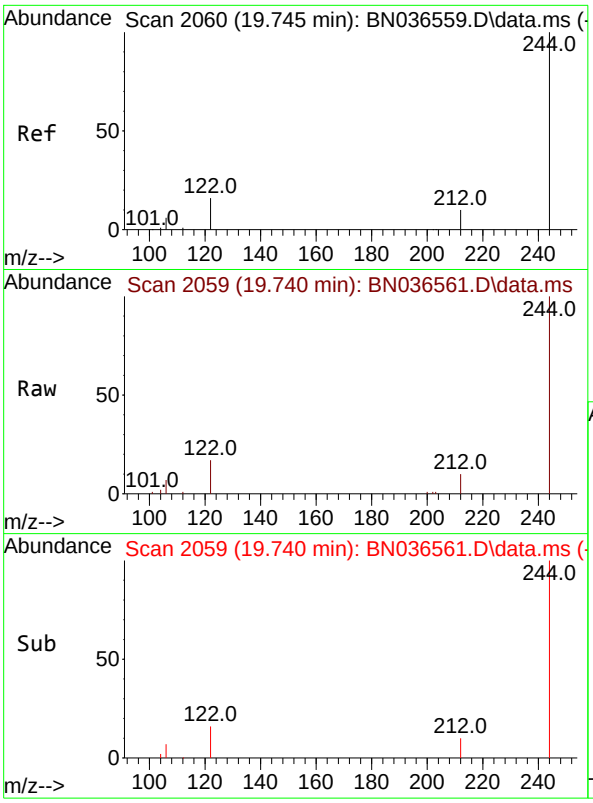


#30
Pyrene
Concen: 1.530 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



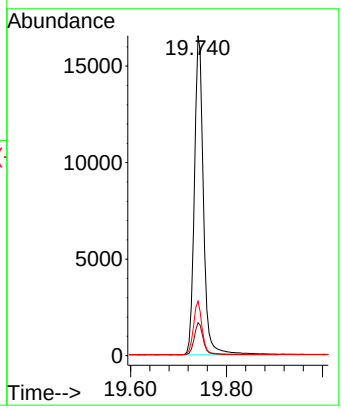


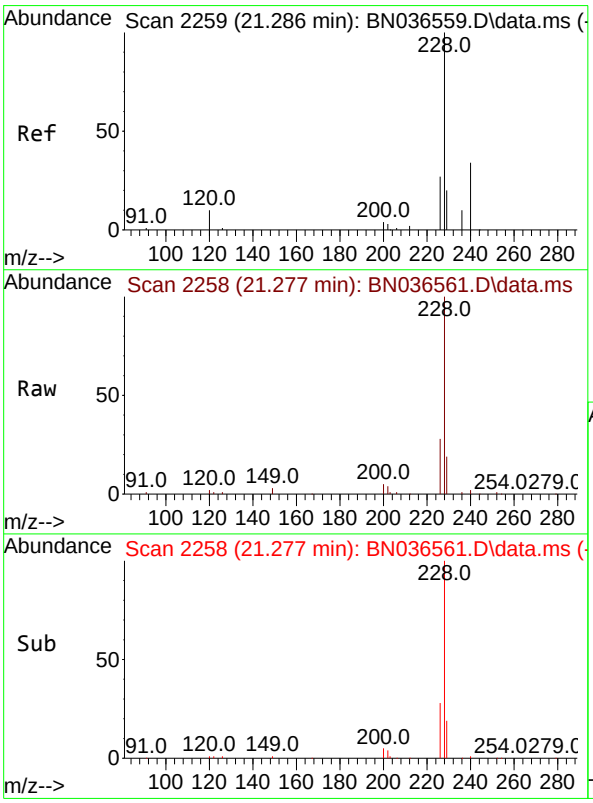
#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

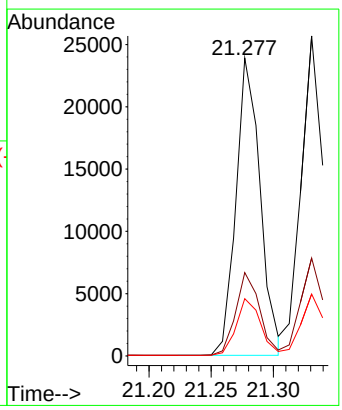


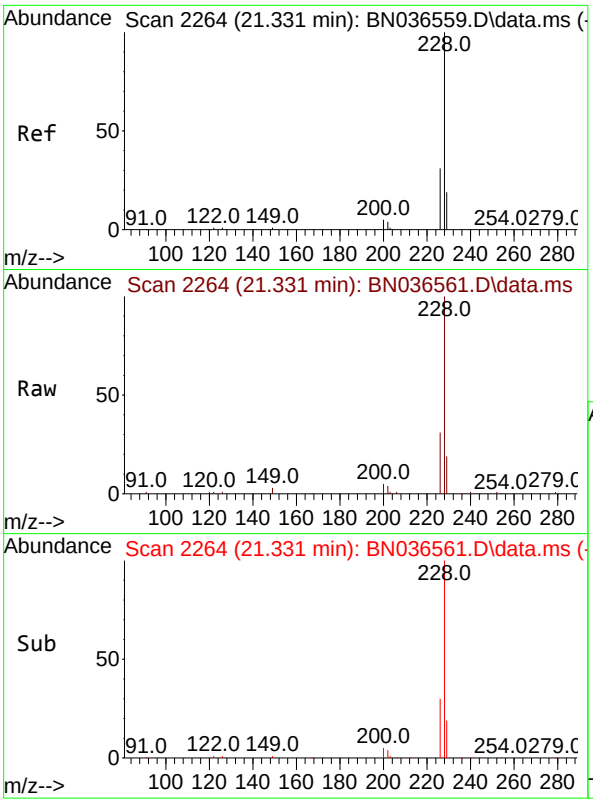


#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



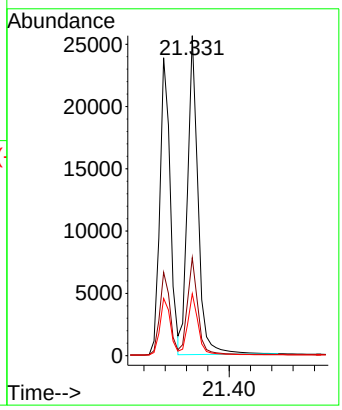


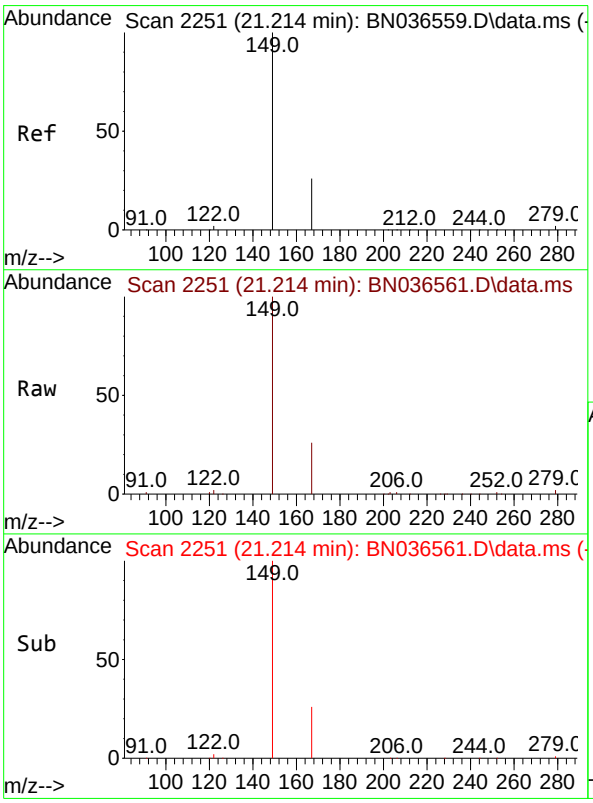
#33
Chrysene
Concen: 1.539 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

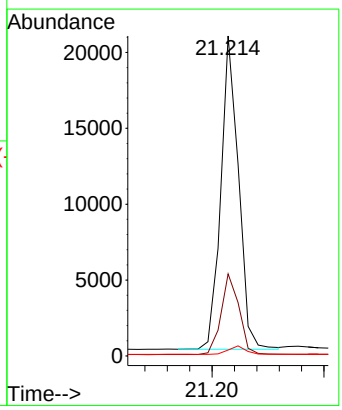


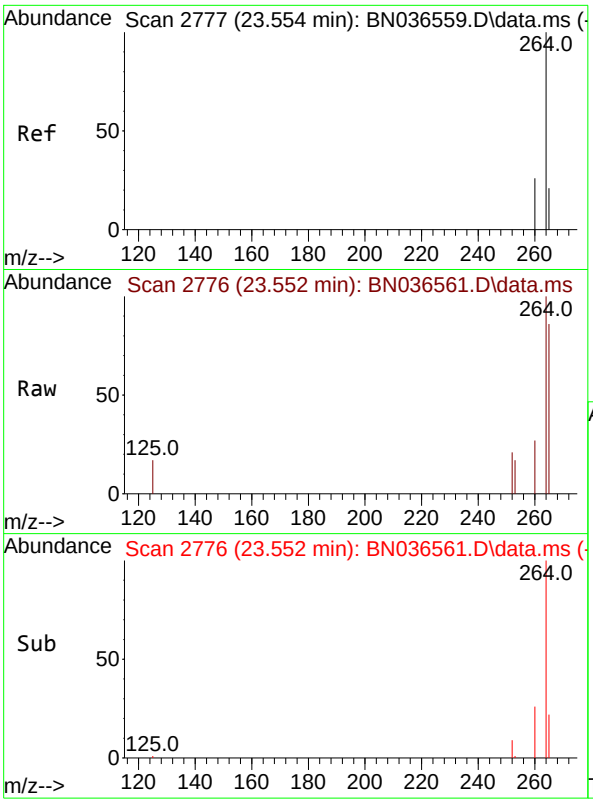


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.529 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#



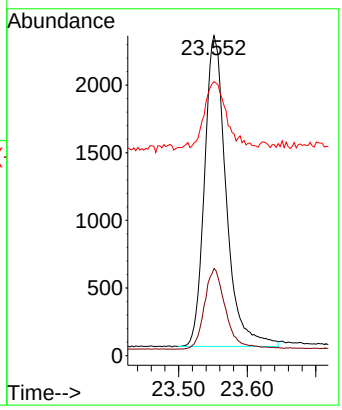


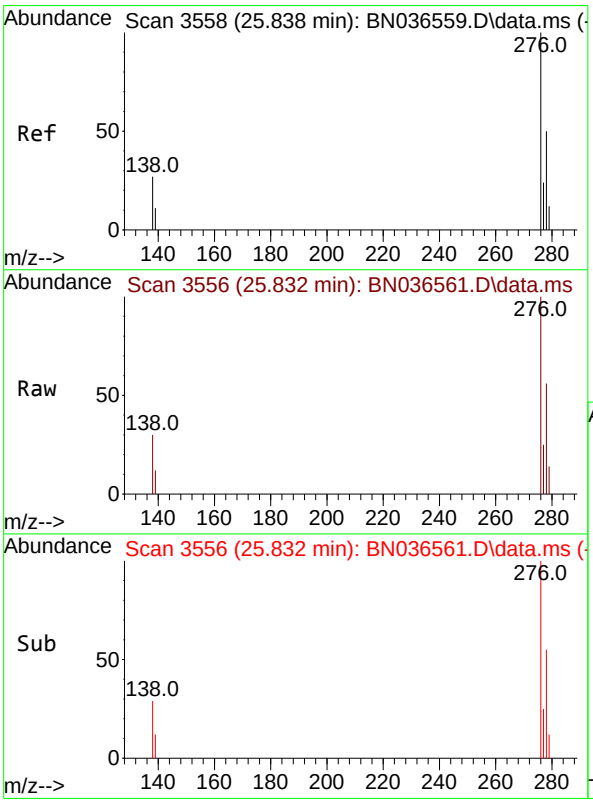
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

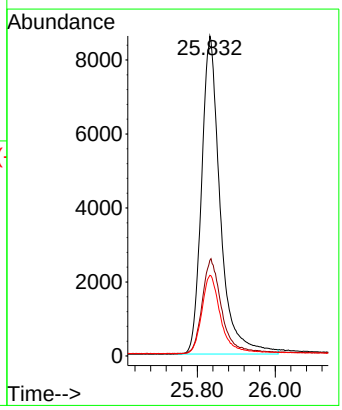


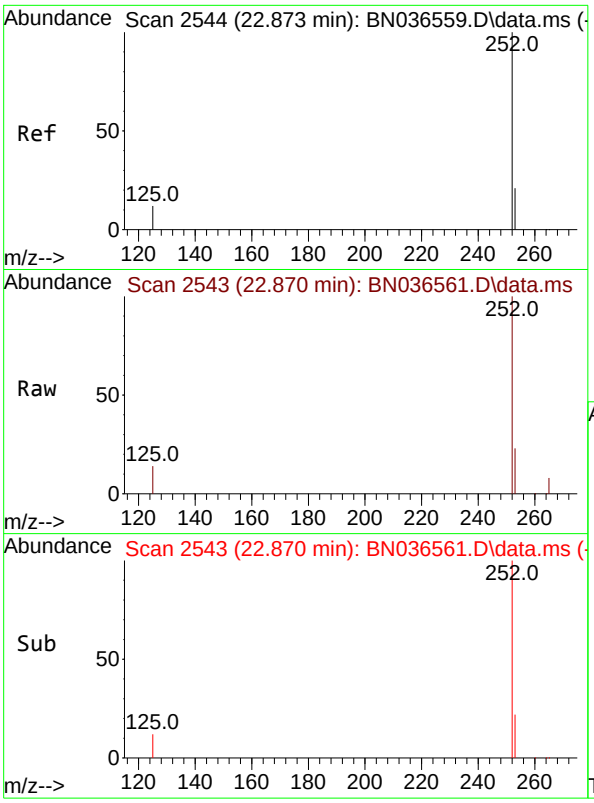


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.570 ng
RT: 25.832 min Scan# 3556
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



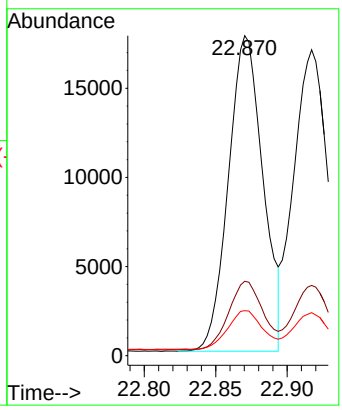


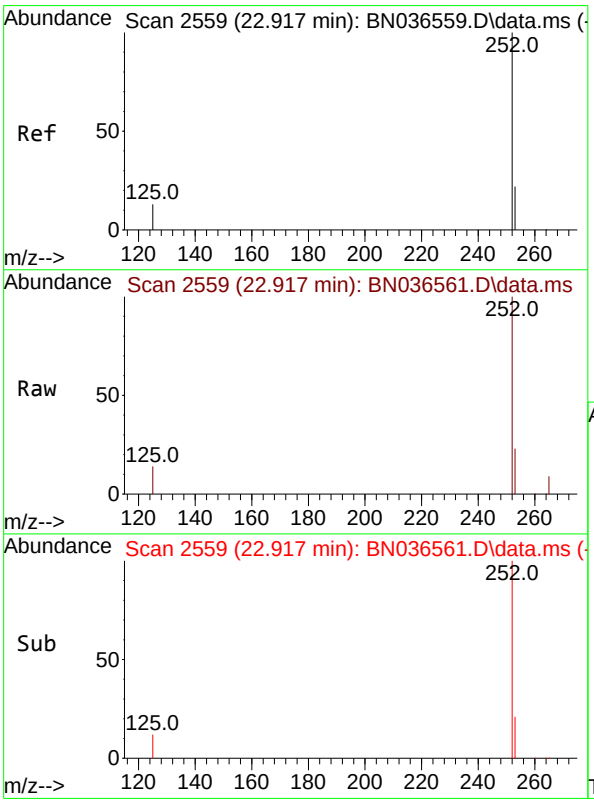
#37
Benzo(b)fluoranthene
Concen: 1.623 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

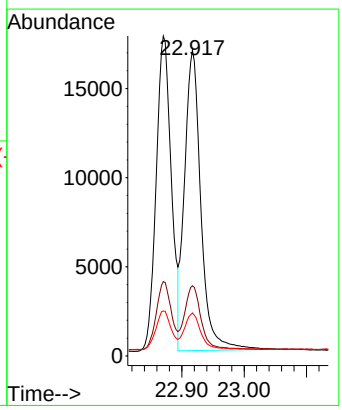


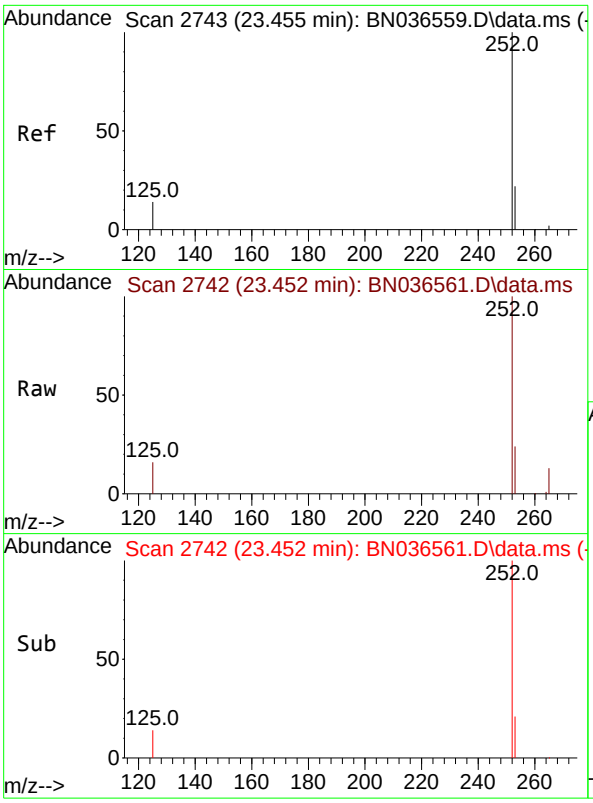


#38
Benzo(k)fluoranthene
Concen: 1.593 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#



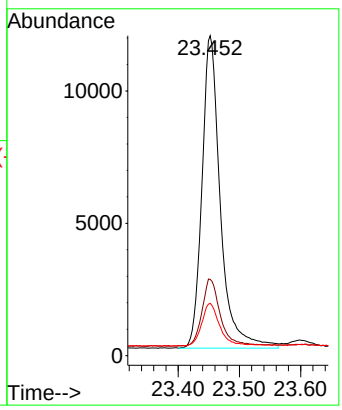


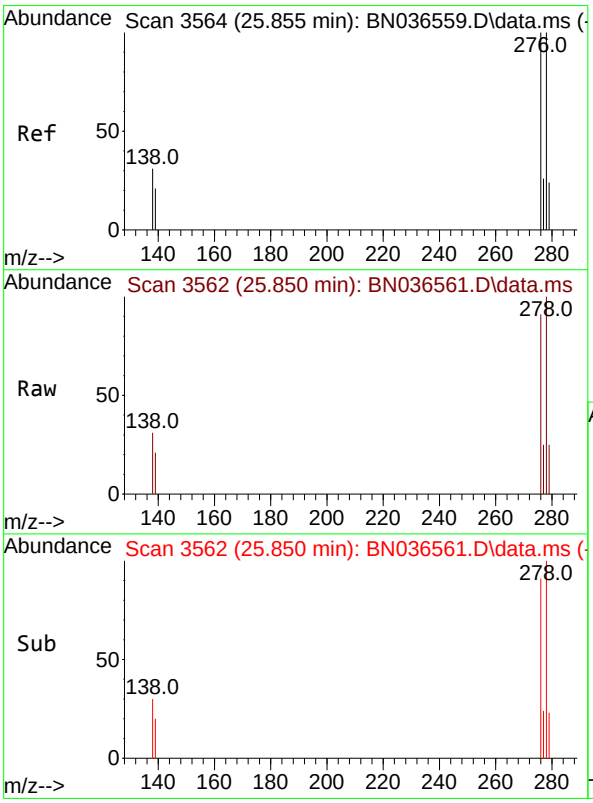
#39
Benzo(a)pyrene
Concen: 1.596 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

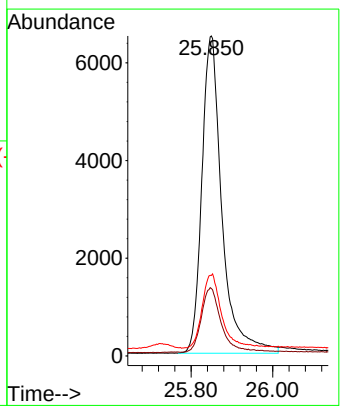


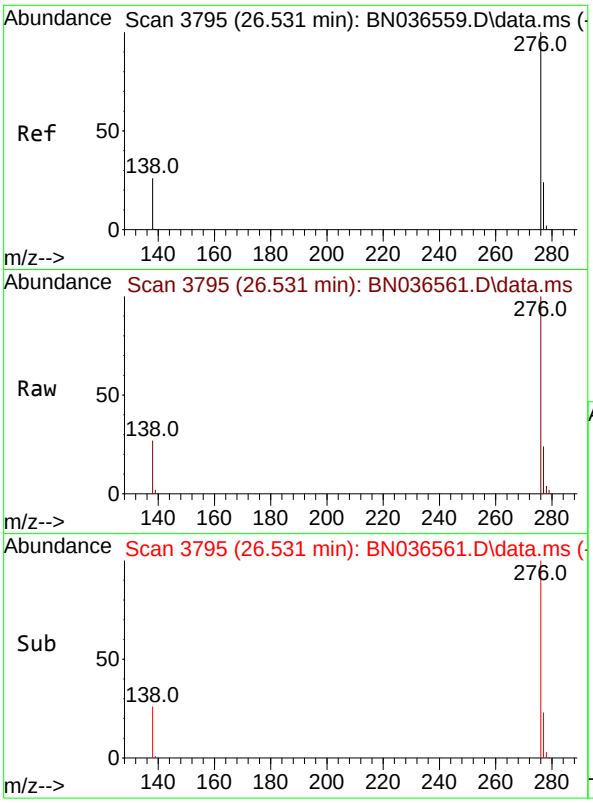


#40
Dibenzo(a,h)anthracene
Concen: 1.569 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#



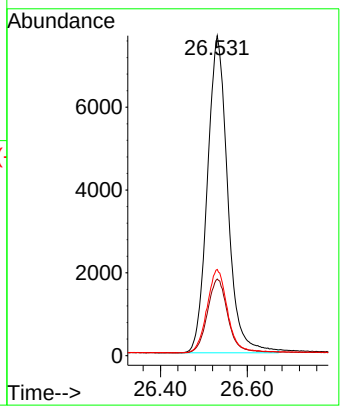


#41
Benzo(g,h,i)perylene
Concen: 1.535 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

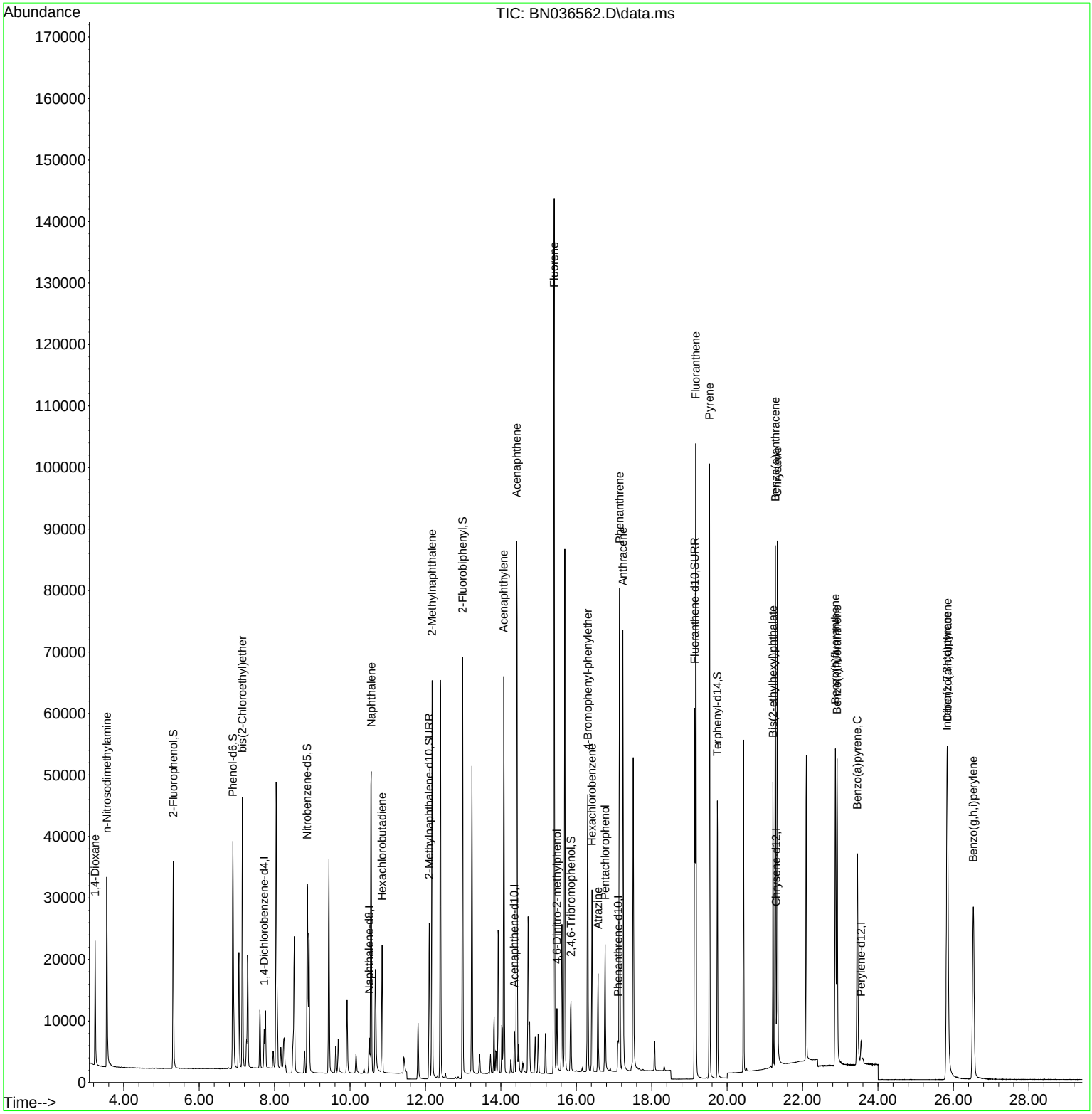
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng		0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng		-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng		0.00
29) Chrysene-d12	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

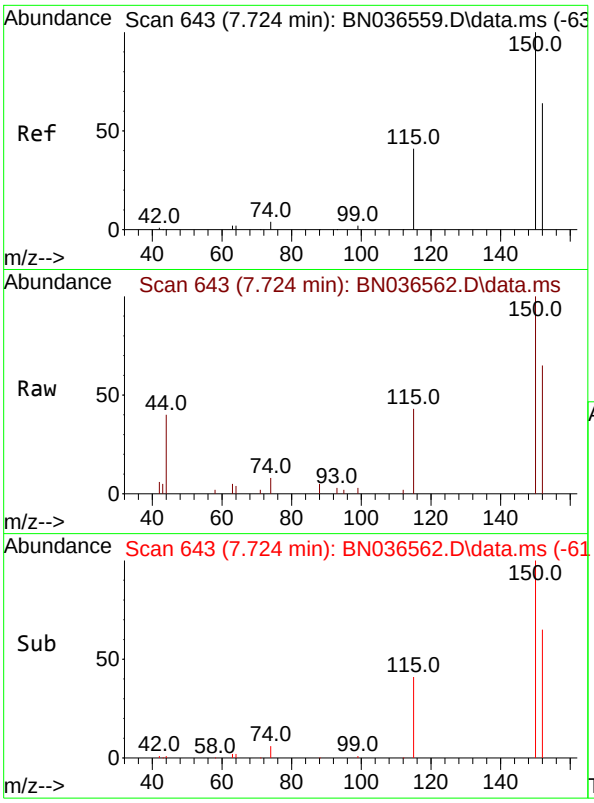
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



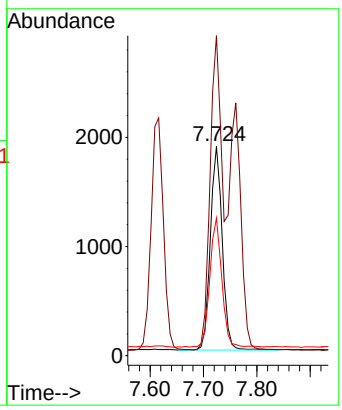


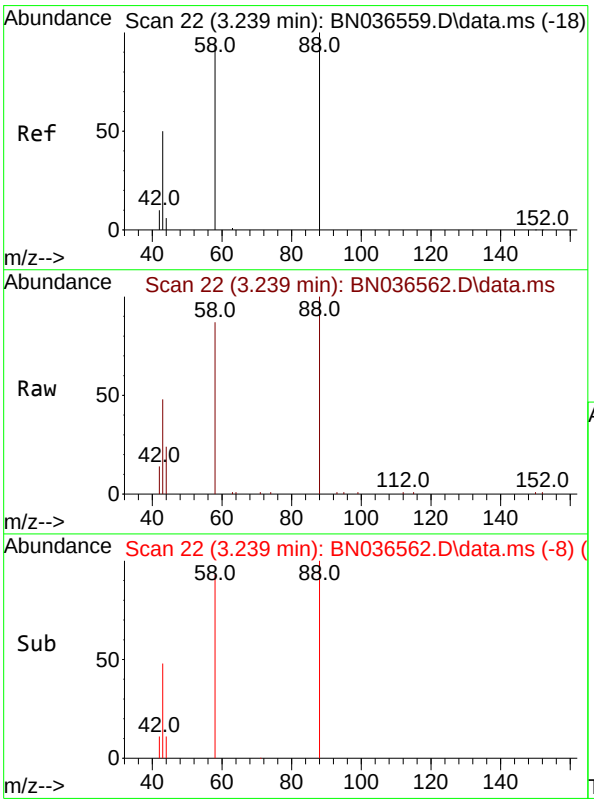
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

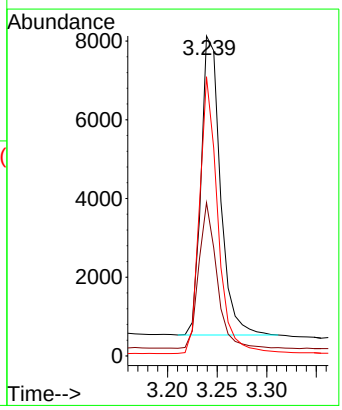


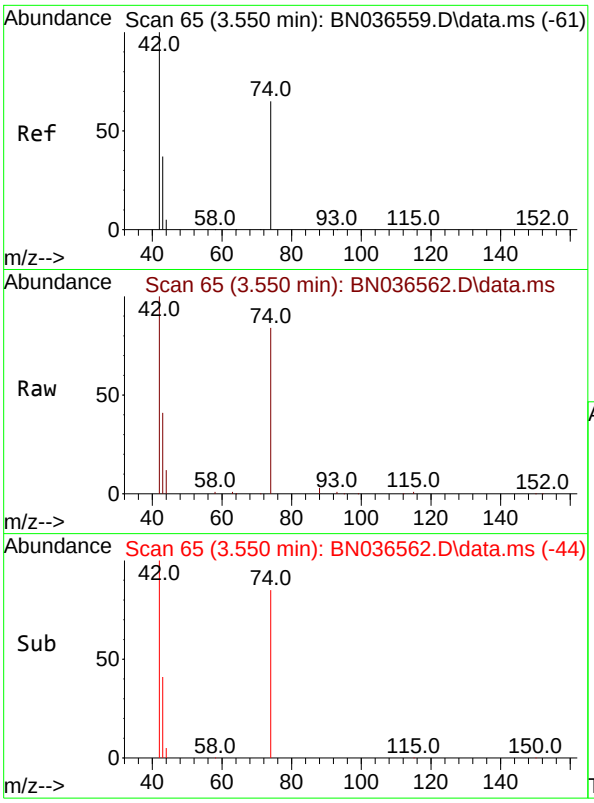


#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



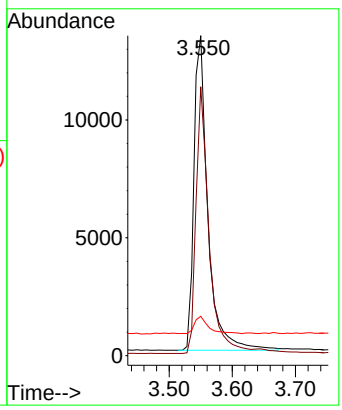


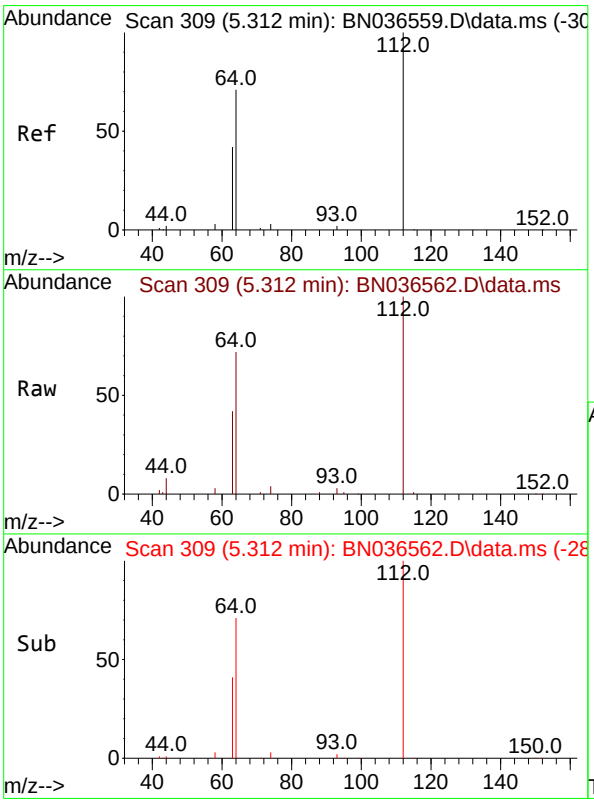
#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#

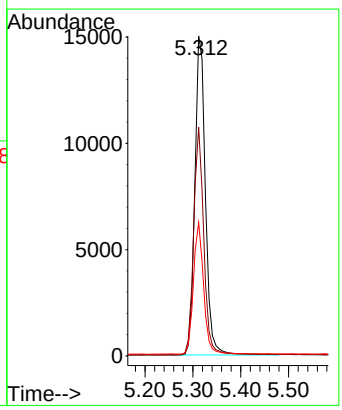


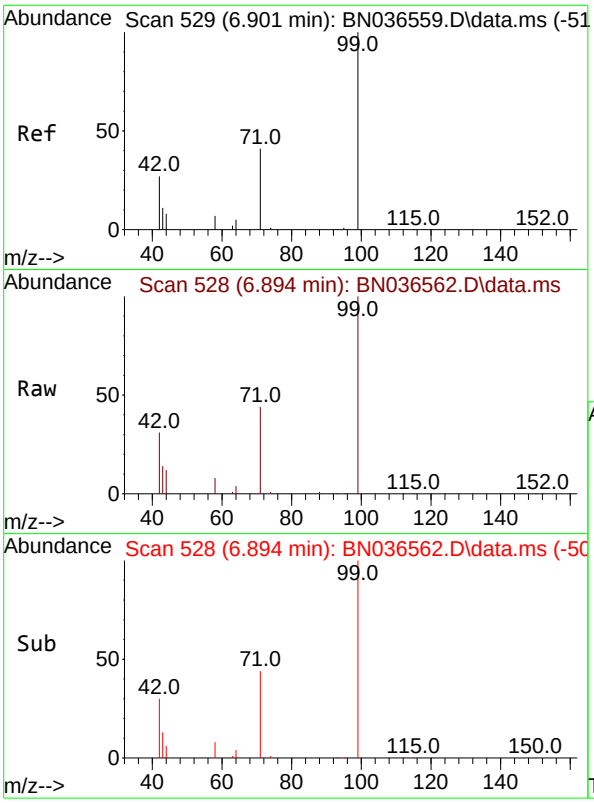


#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



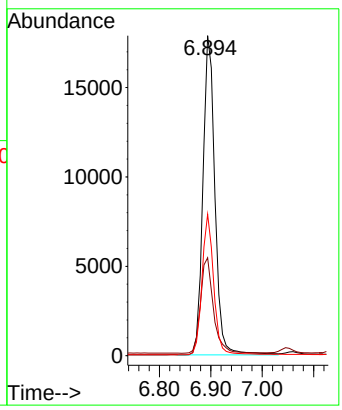


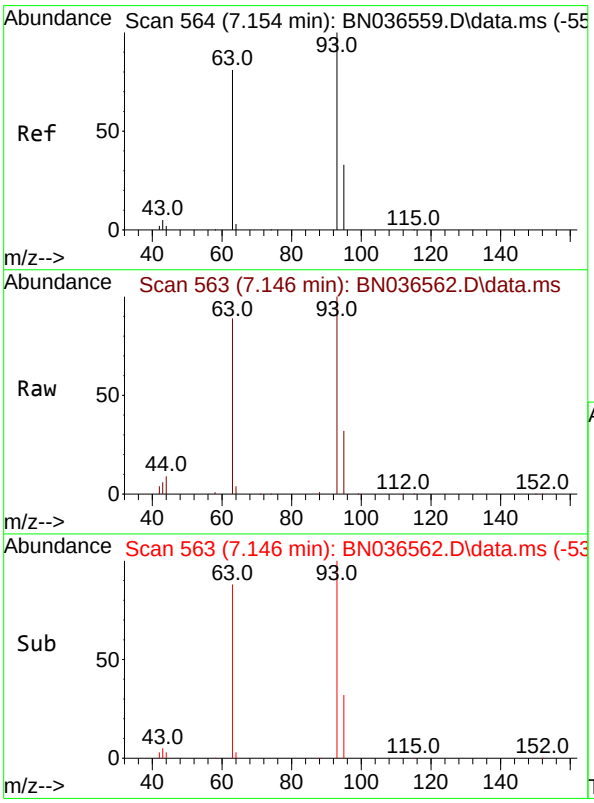
#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

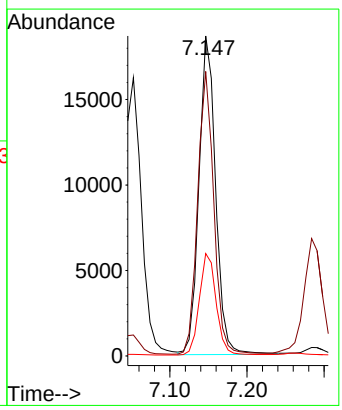


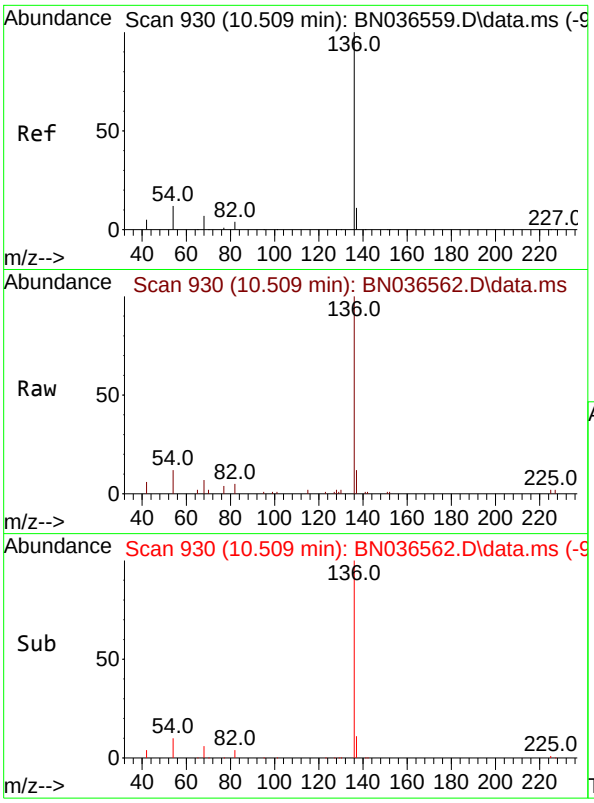


#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



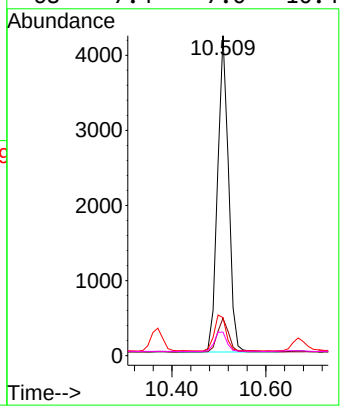


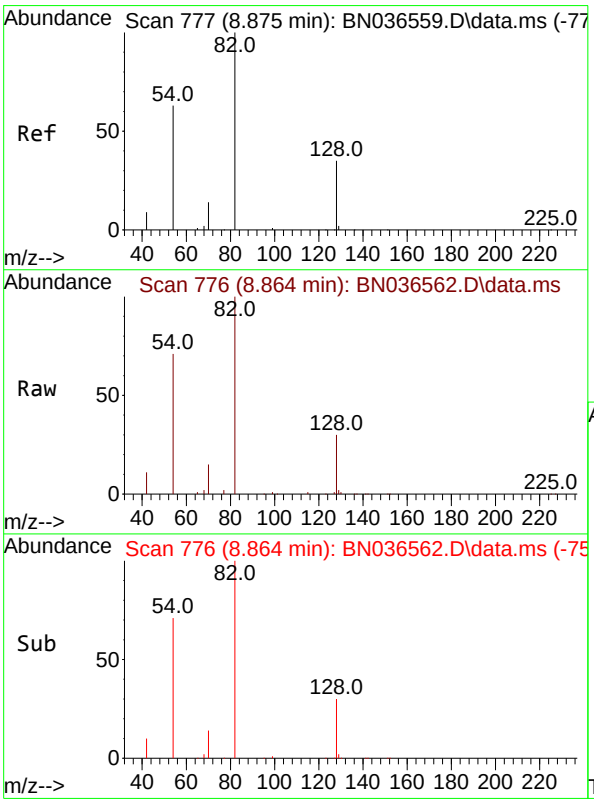
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

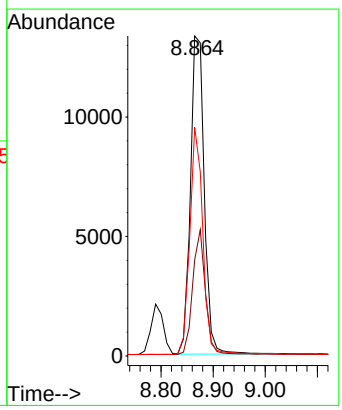


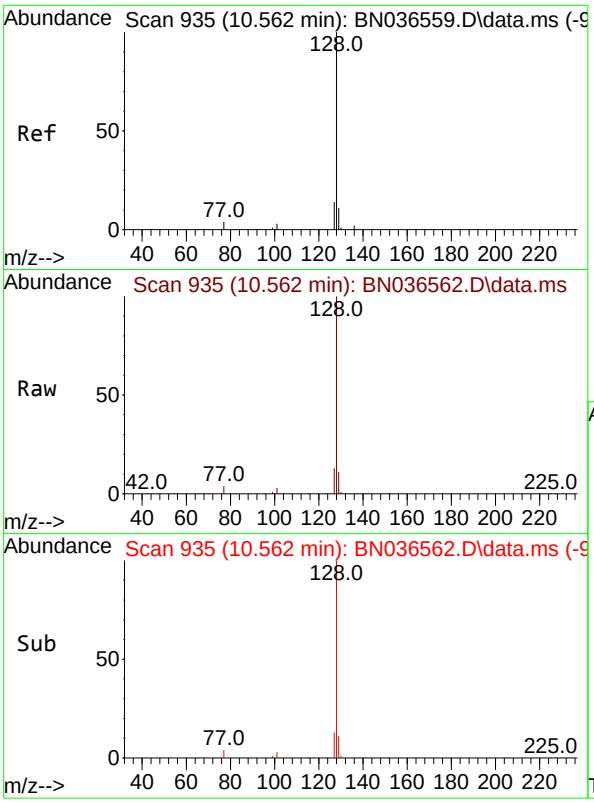


#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



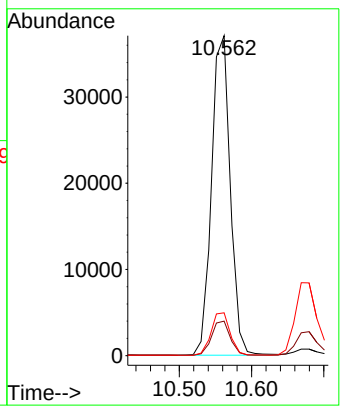


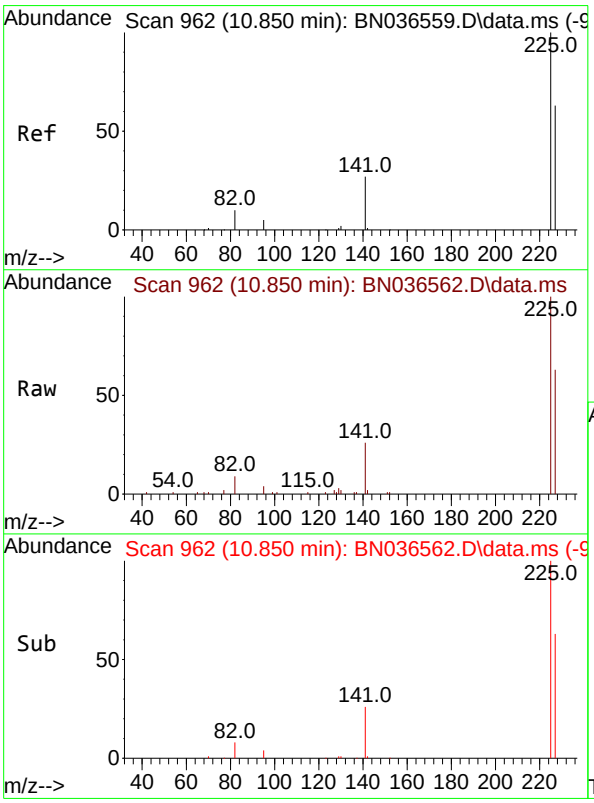
#9
Naphthalene
Concen: 3.323 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

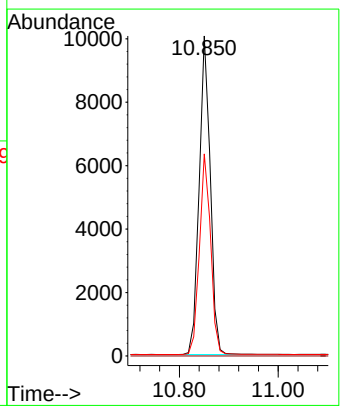


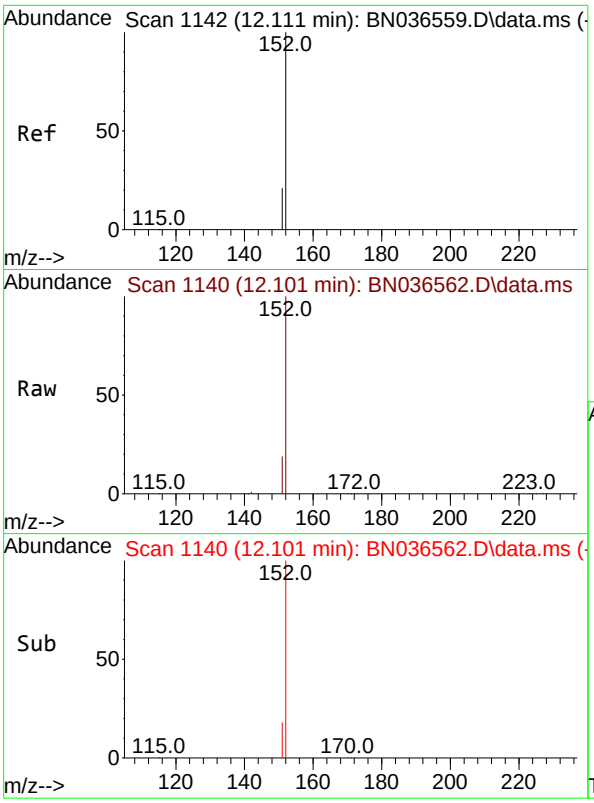


#10
Hexachlorobutadiene
Concen: 3.305 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



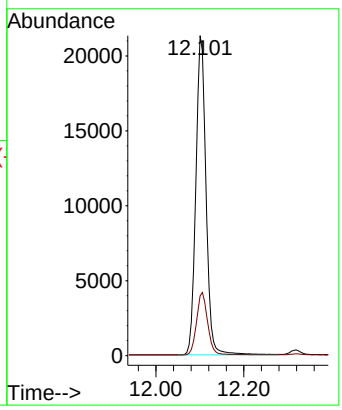


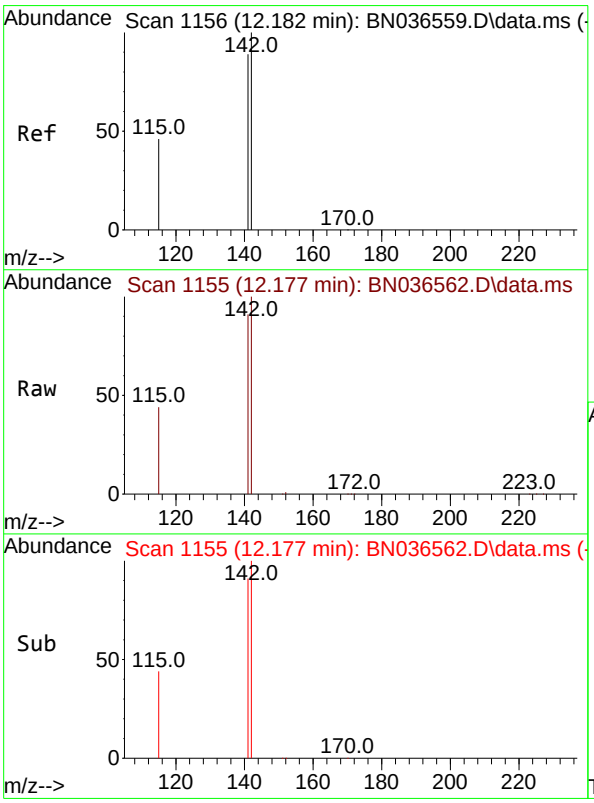
#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 34578

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

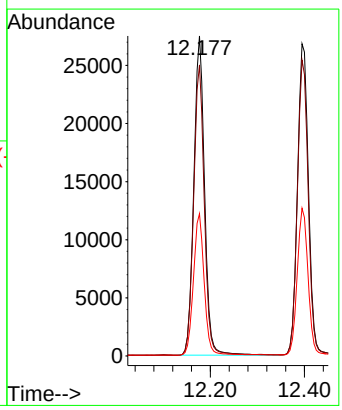


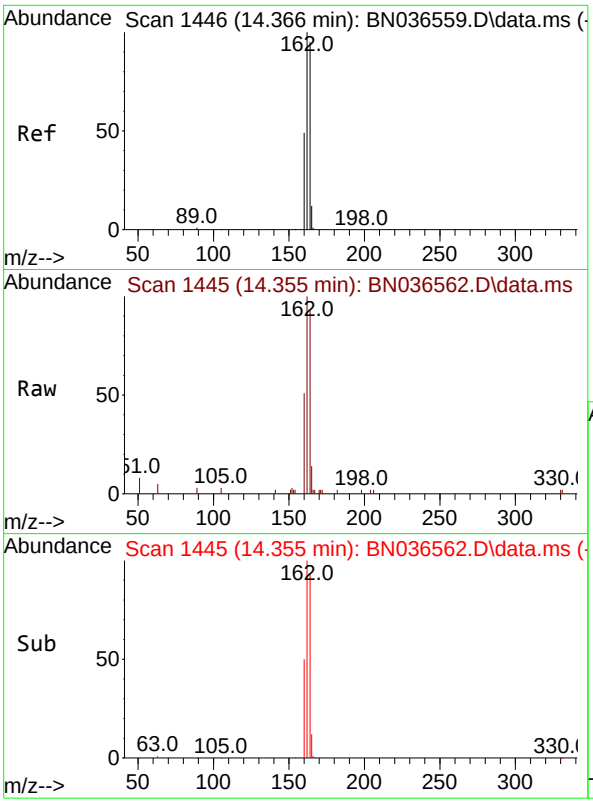


#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



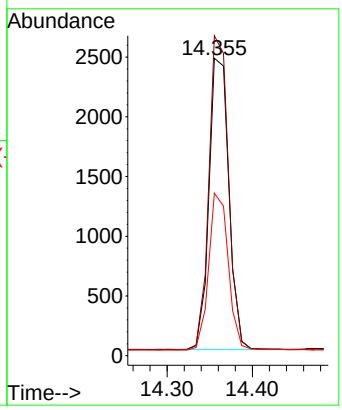


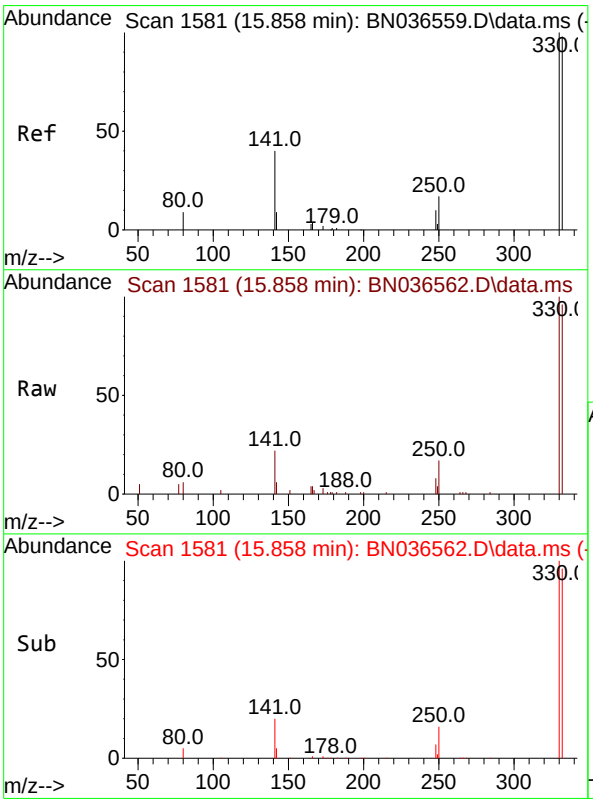
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

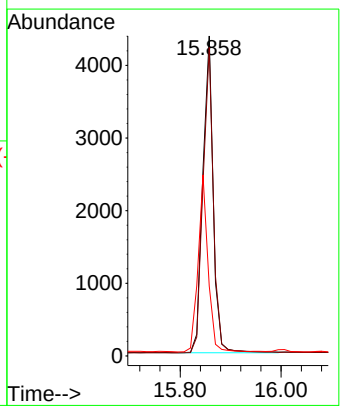


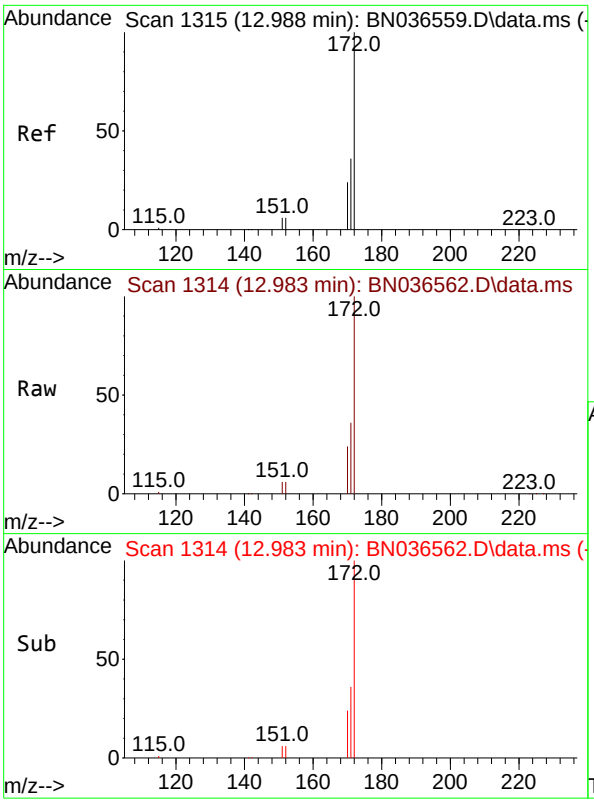


#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



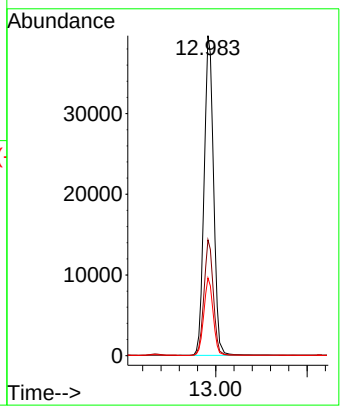


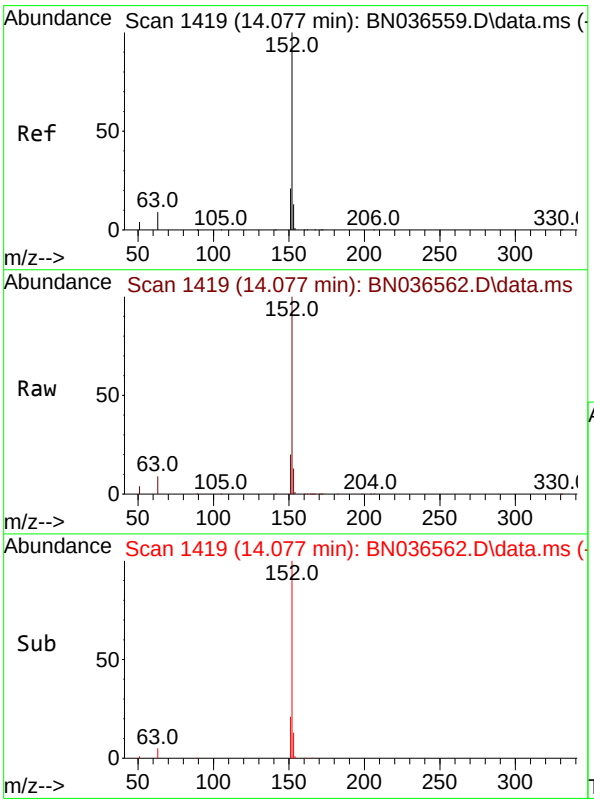
#15
2-Fluorobiphenyl
Concen: 3.529 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

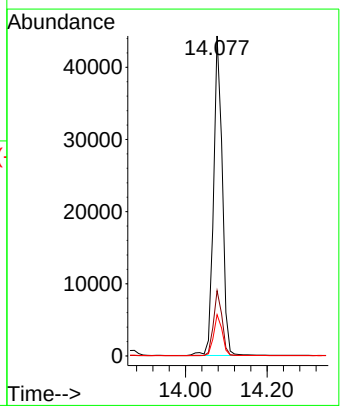


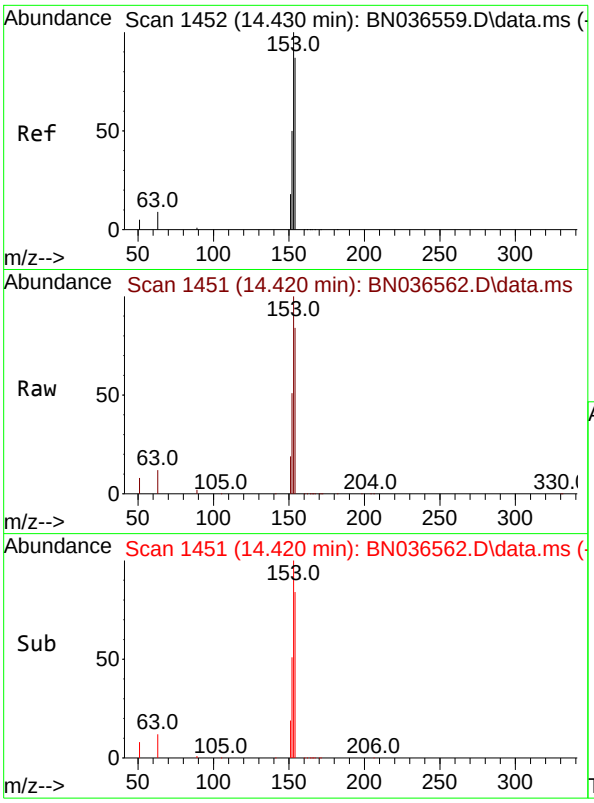


#16
Acenaphthylene
Concen: 3.516 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



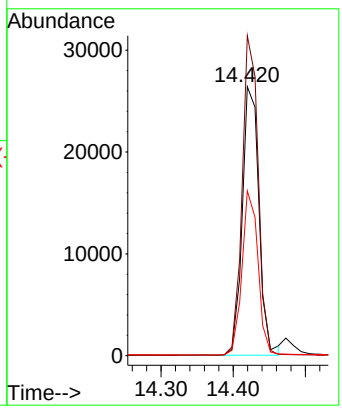


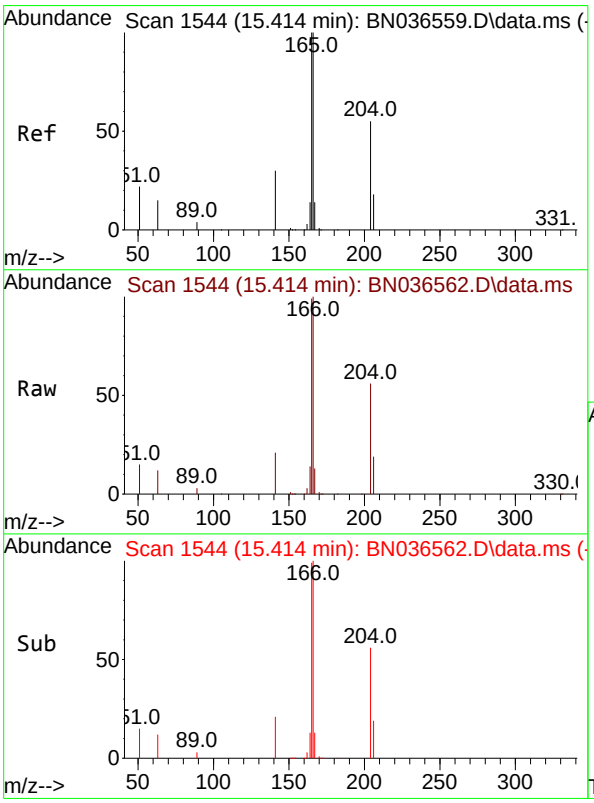
#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

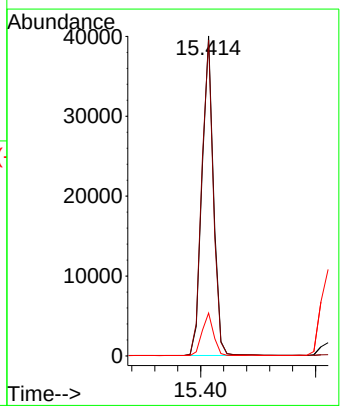


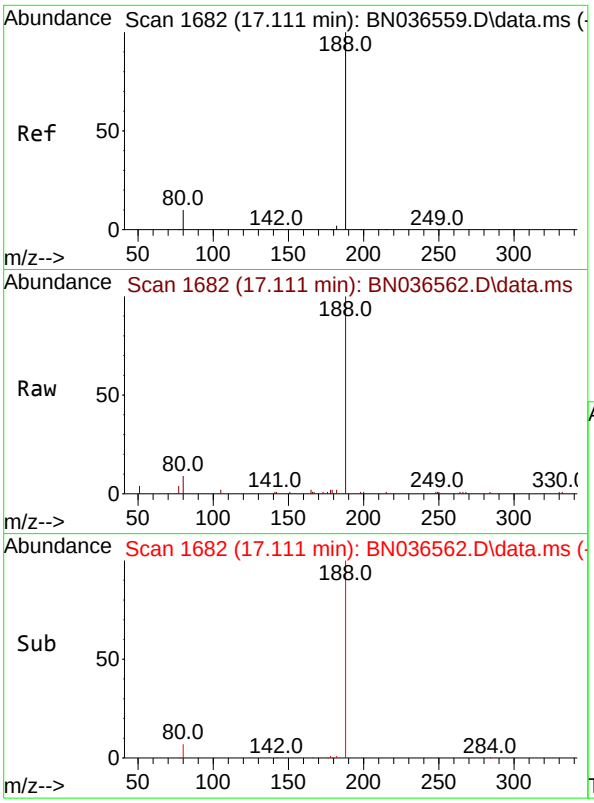


#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



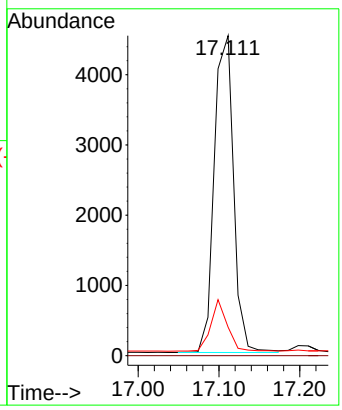


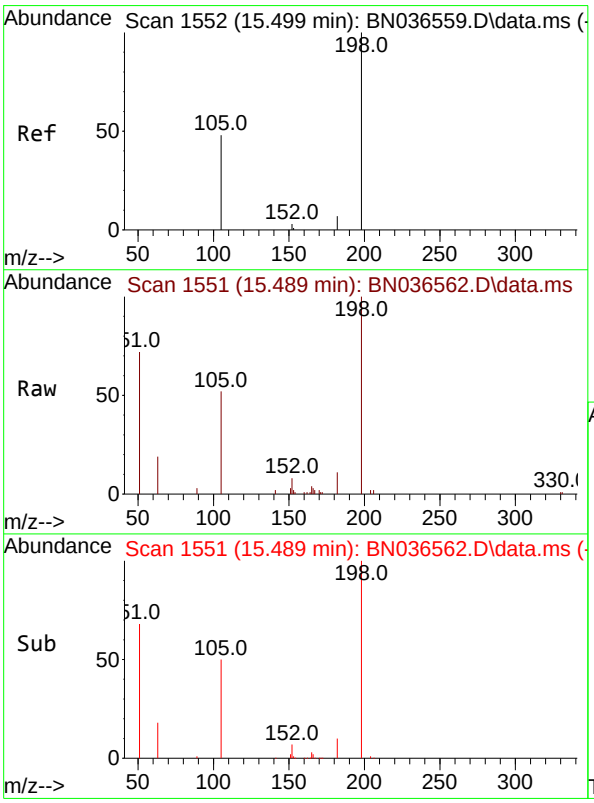
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

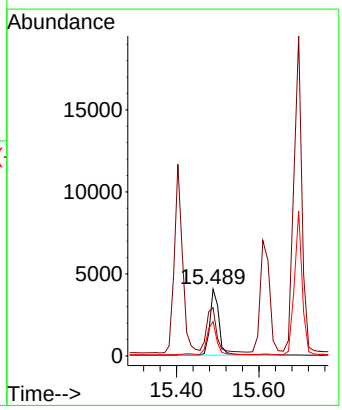


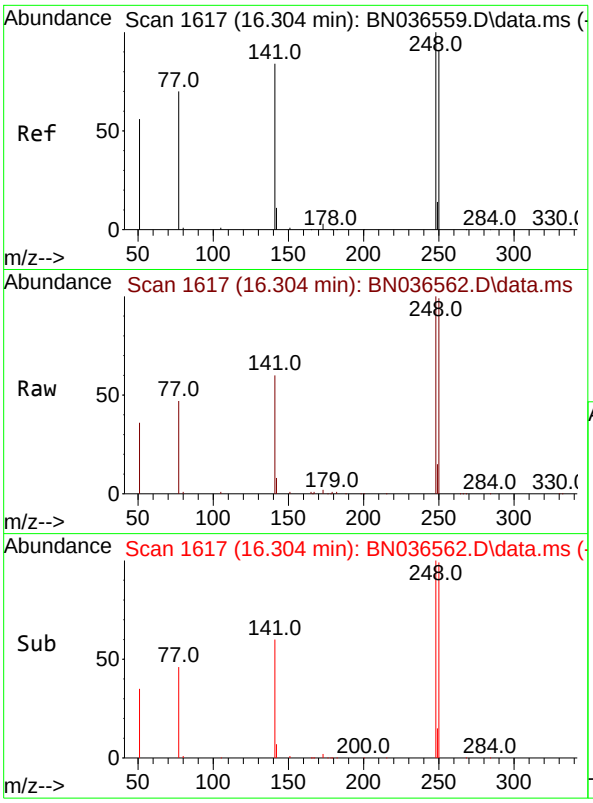


#20
4,6-Dinitro-2-methylphenol
Concen: 3.315 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#



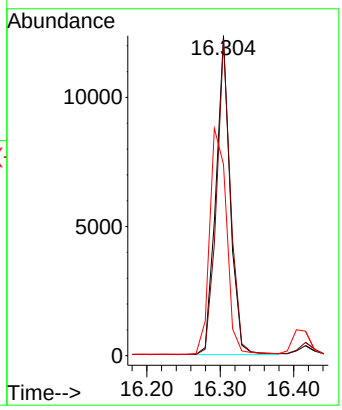


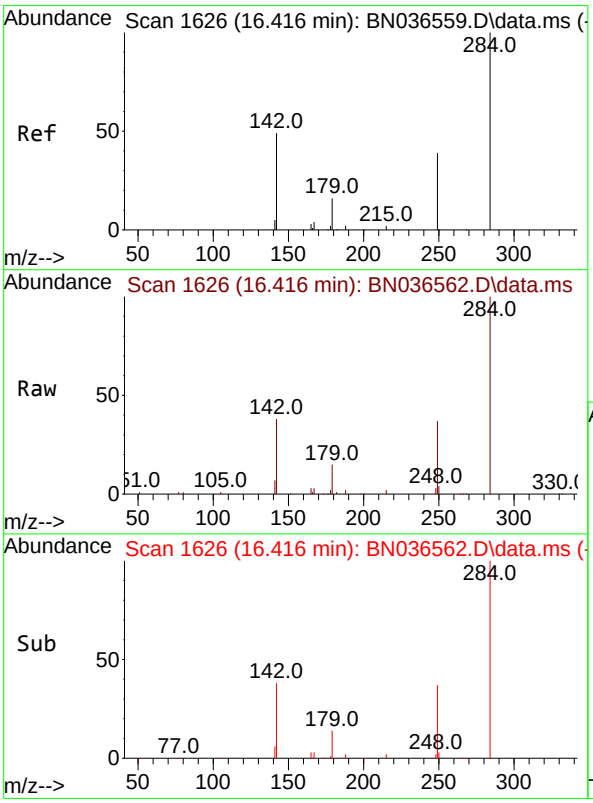
#21
4-Bromophenyl-phenylether
Concen: 3.549 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#

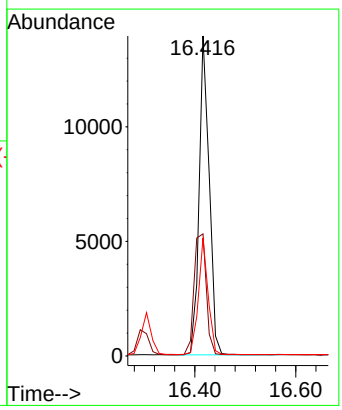


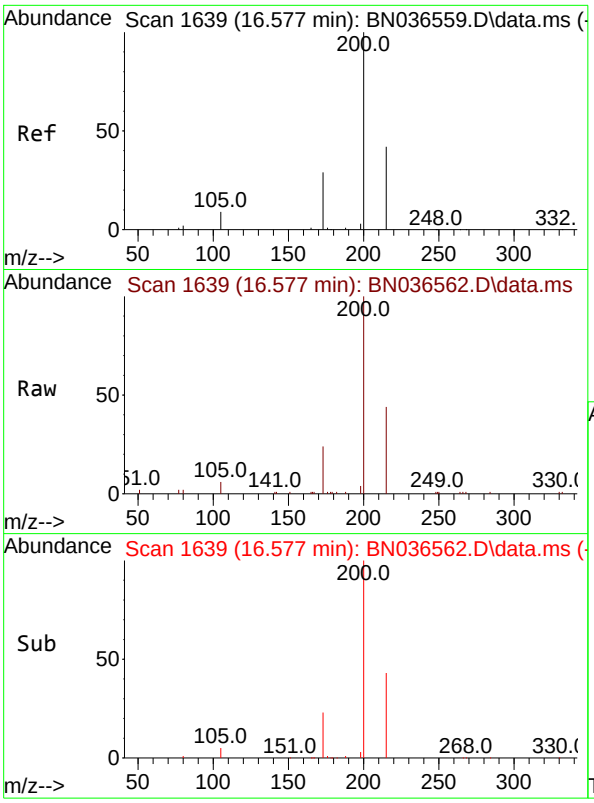


#22
Hexachlorobenzene
Concen: 3.406 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



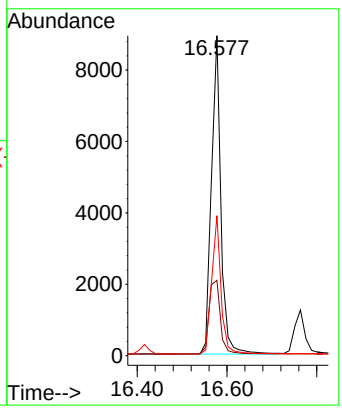


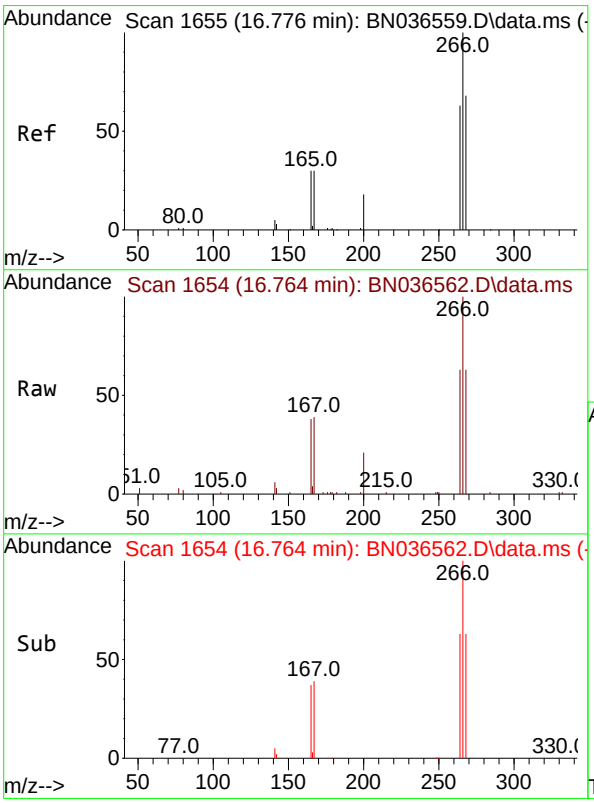
#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

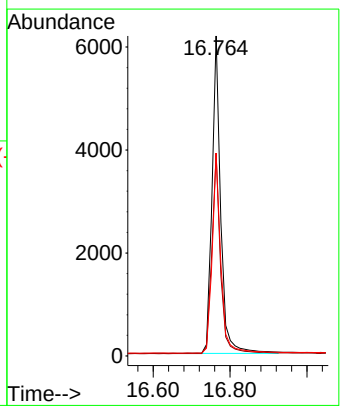


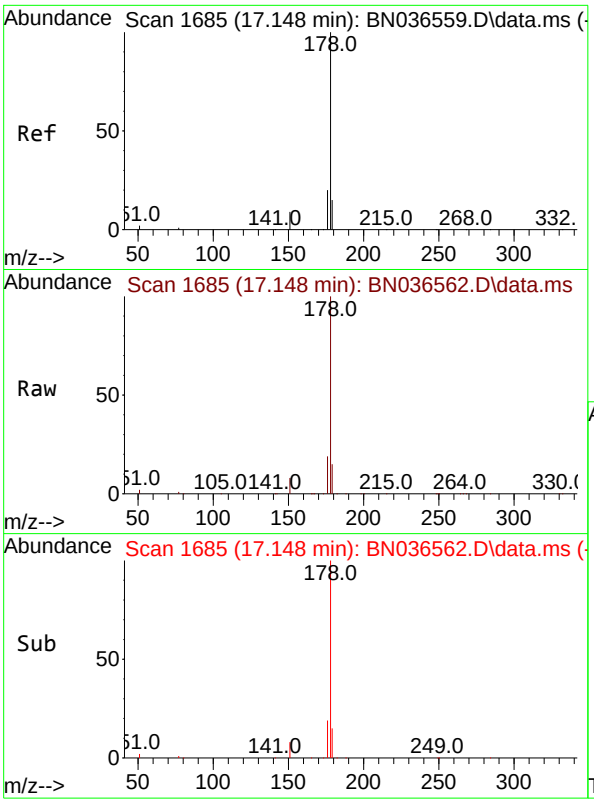


#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



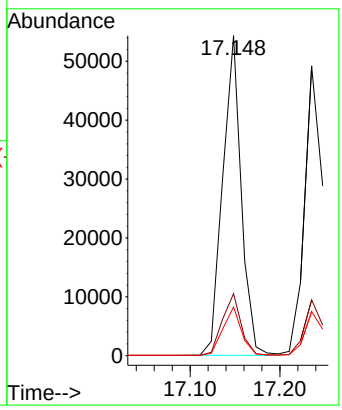


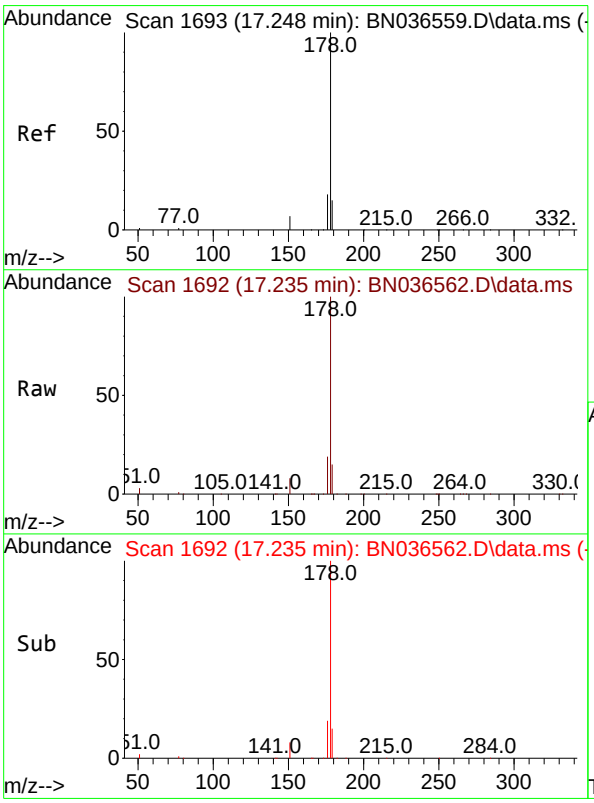
#25
Phenanthrene
Concen: 3.468 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

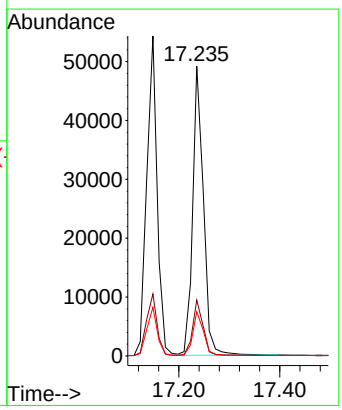


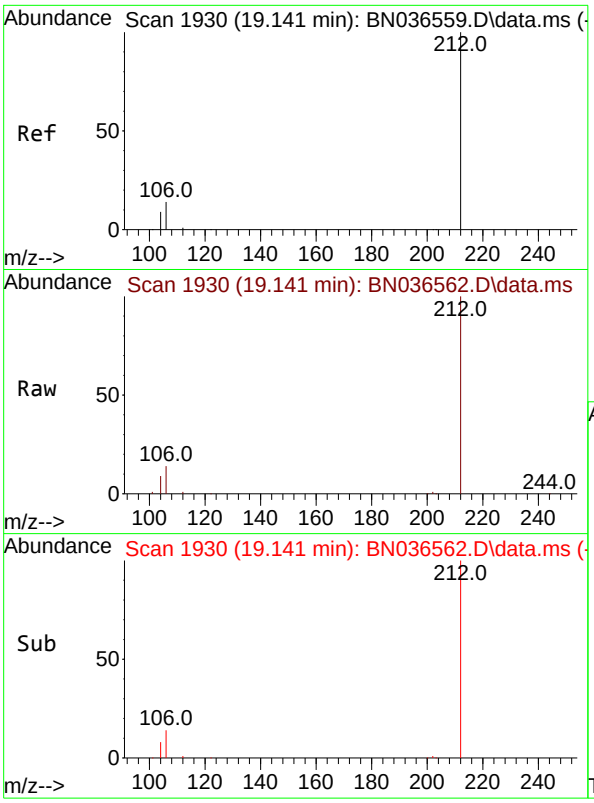


#26
Anthracene
Concen: 3.590 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



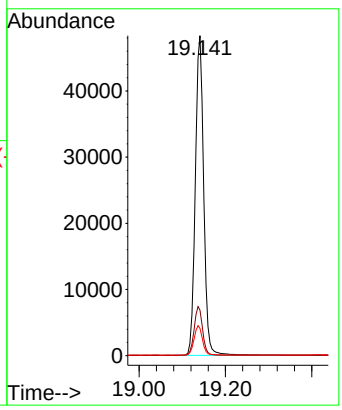


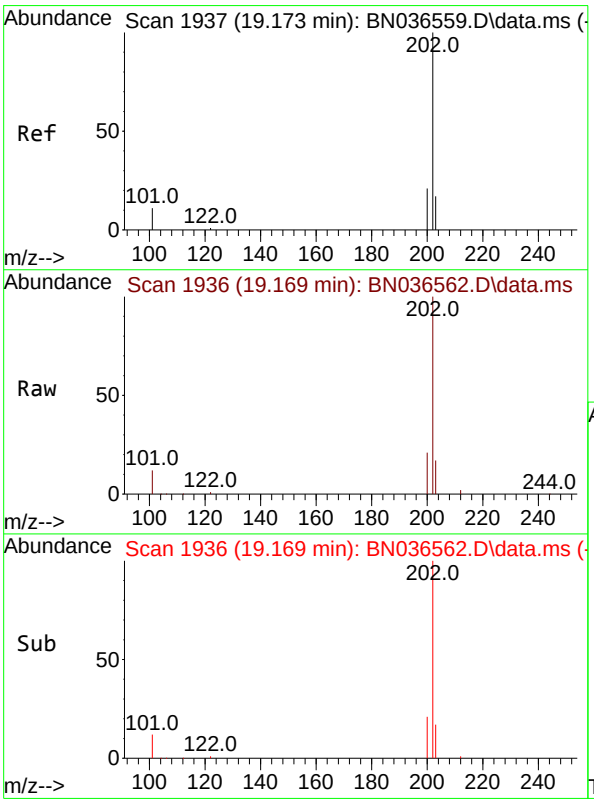
#27
Fluoranthene-d10
Concen: 3.394 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

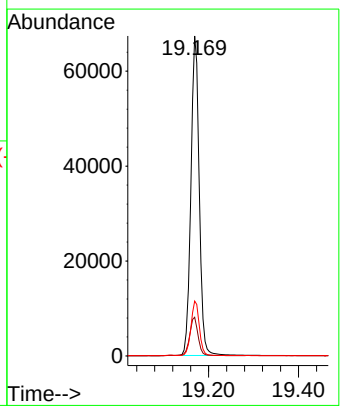


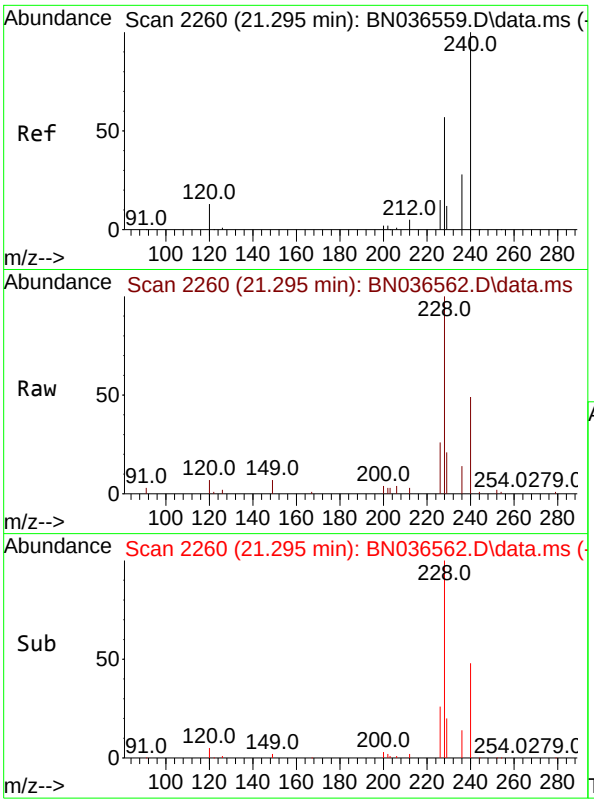


#28
Fluoranthene
Concen: 3.436 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



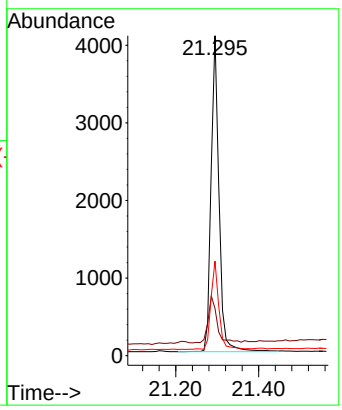


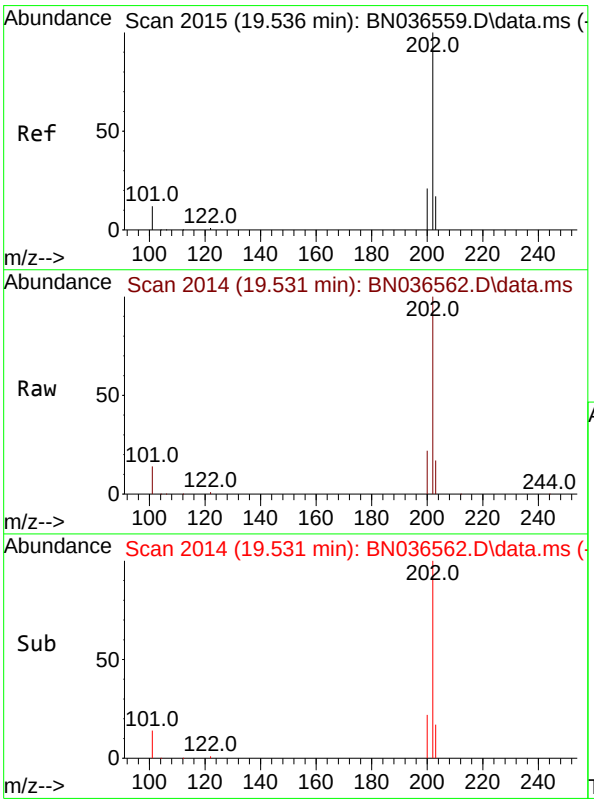
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

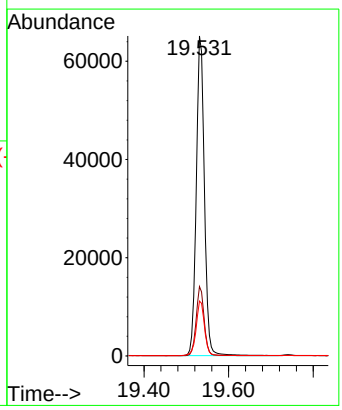


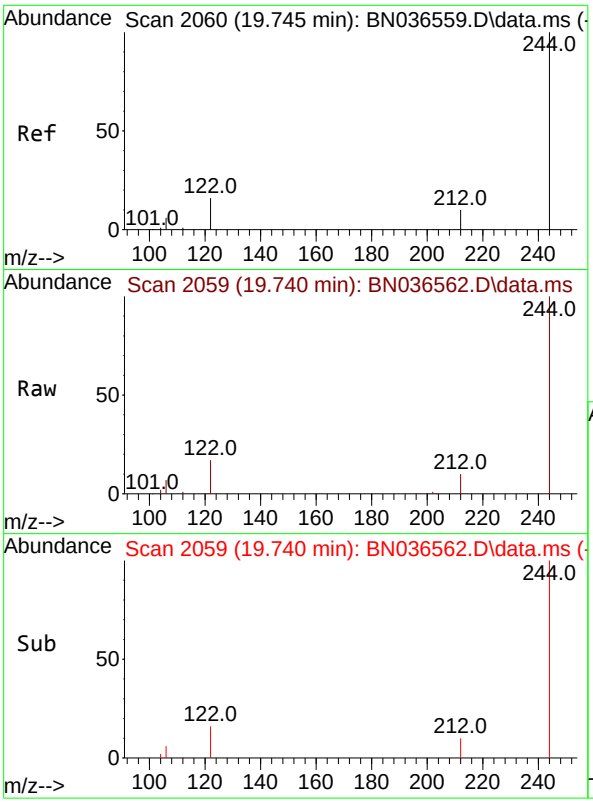


#30
Pyrene
Concen: 3.260 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



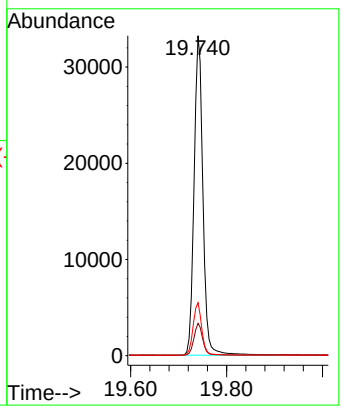


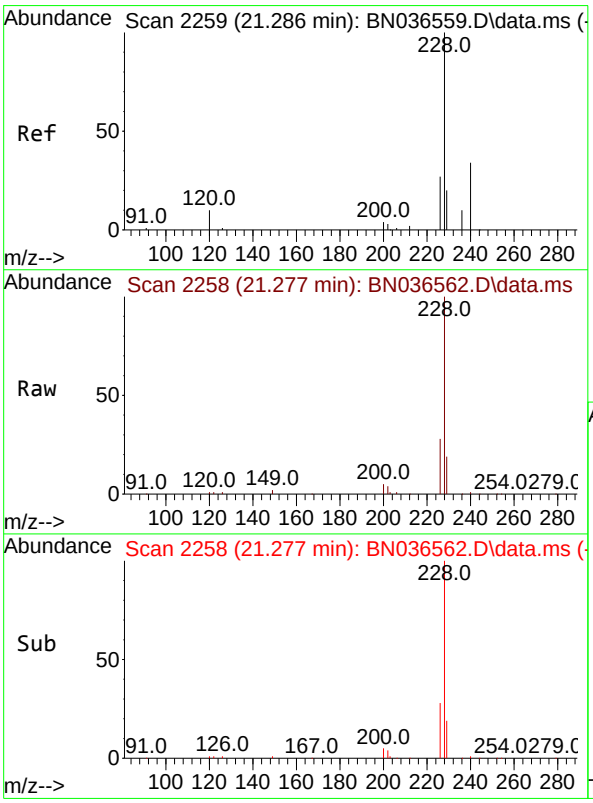
#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

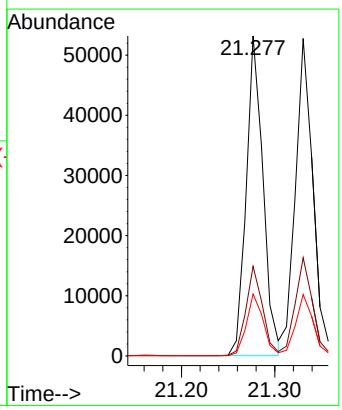


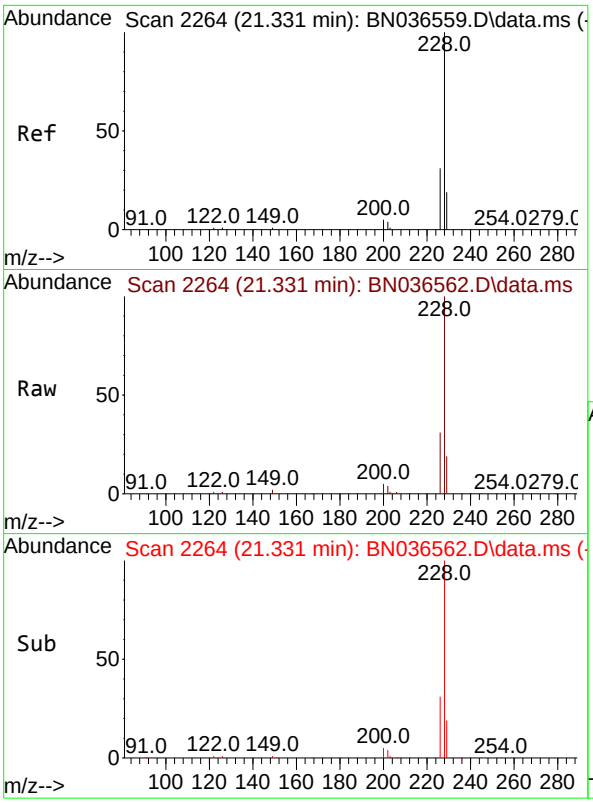


#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



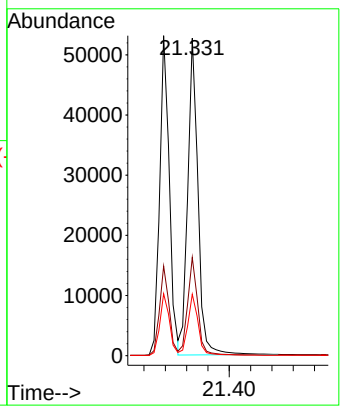


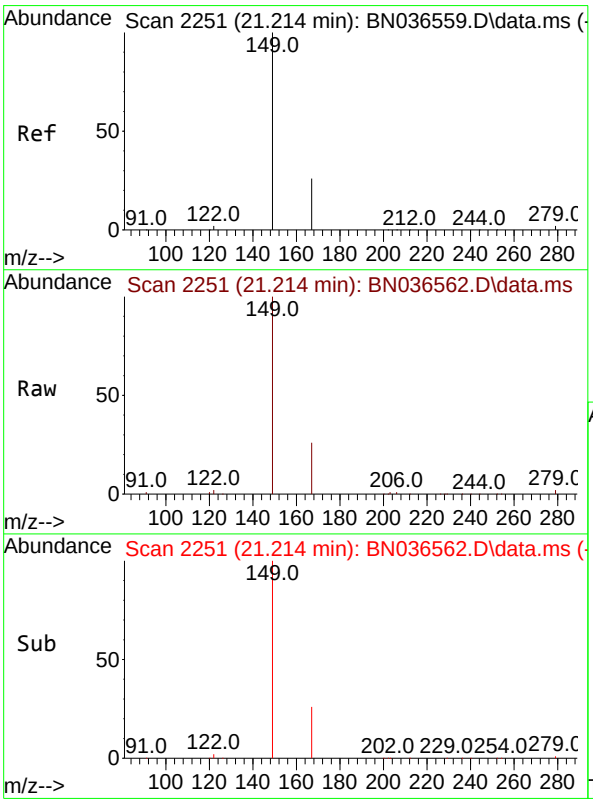
#33
Chrysene
Concen: 3.403 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

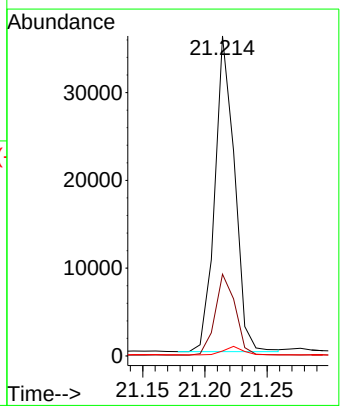


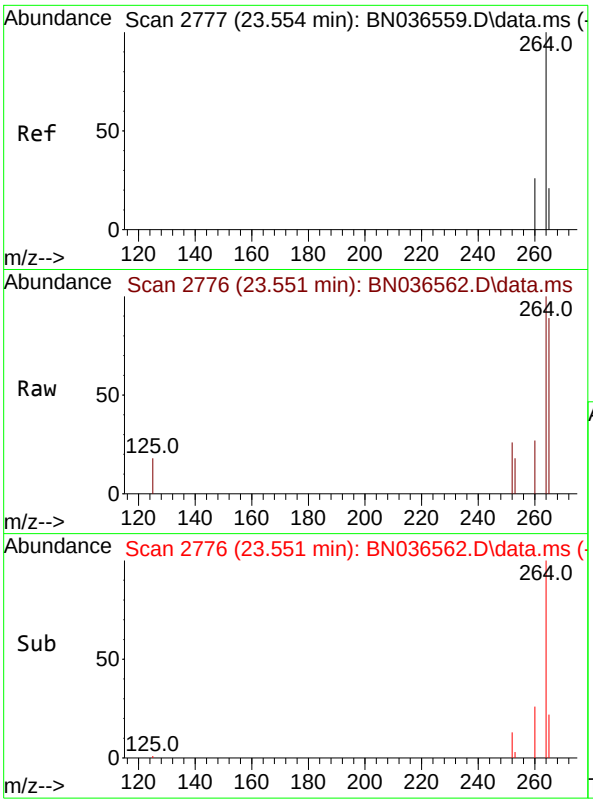


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.947 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#



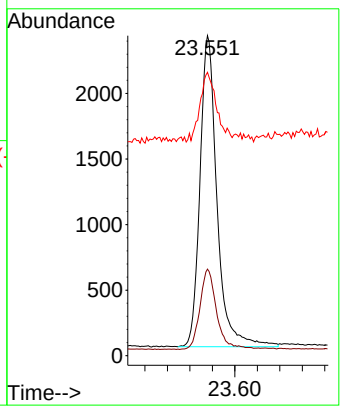


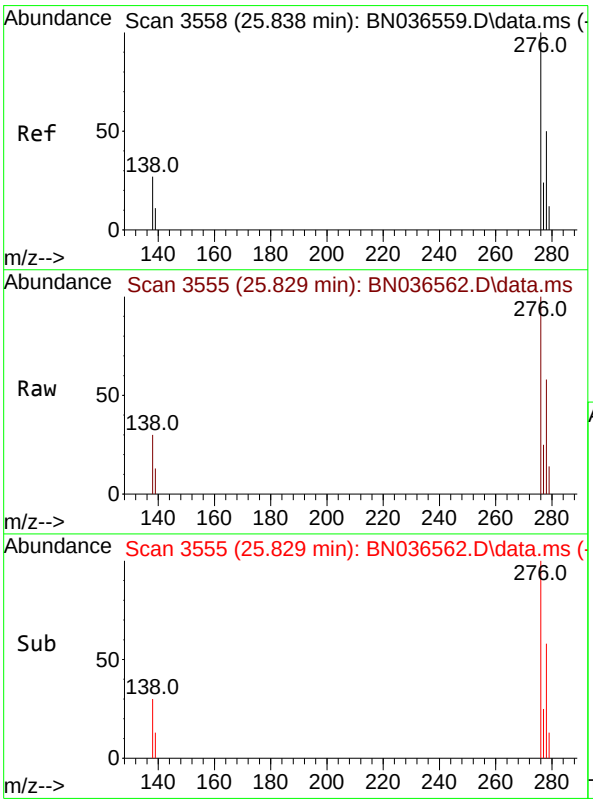
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

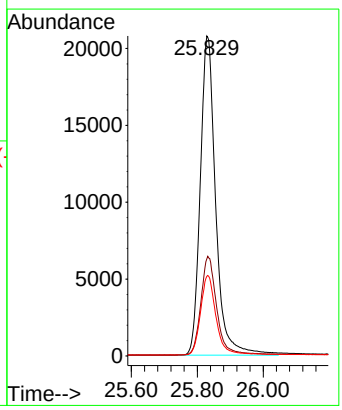


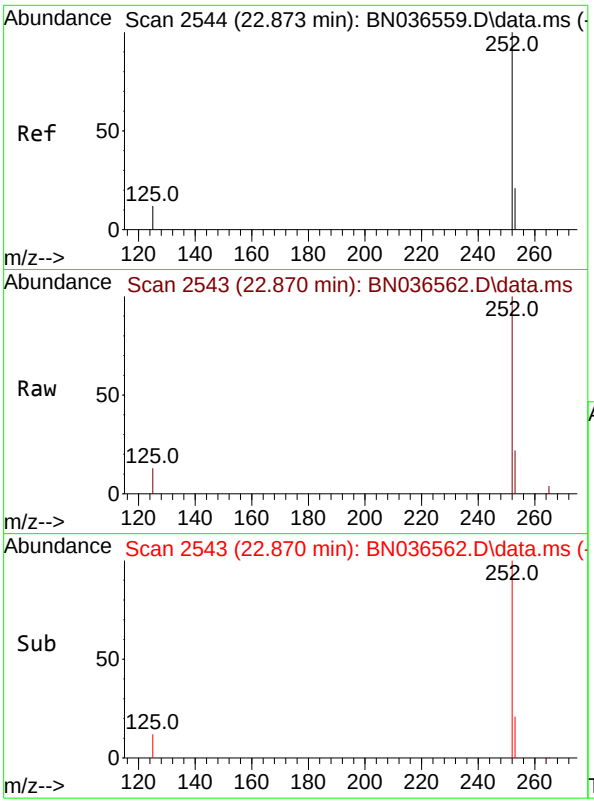


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.754 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



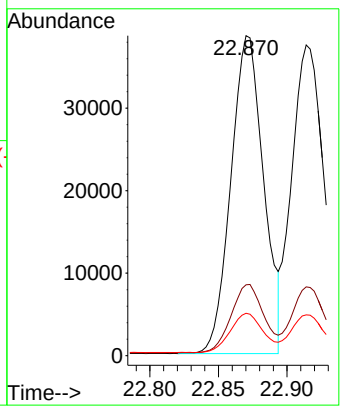


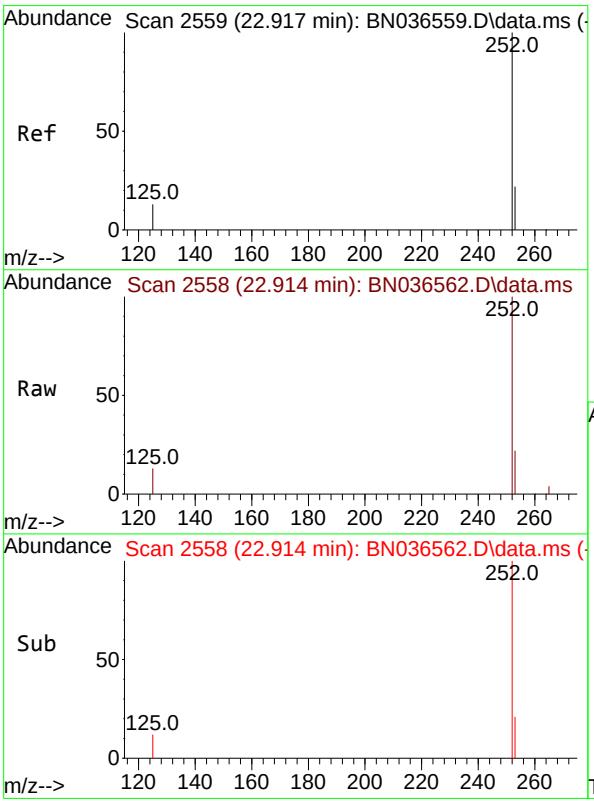
#37
Benzo(b)fluoranthene
Concen: 3.506 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#

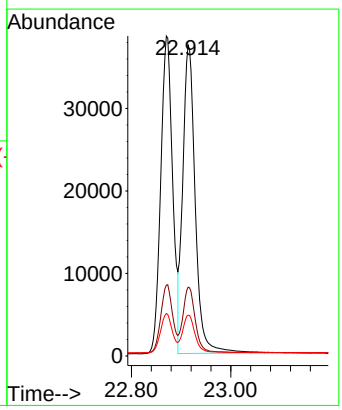


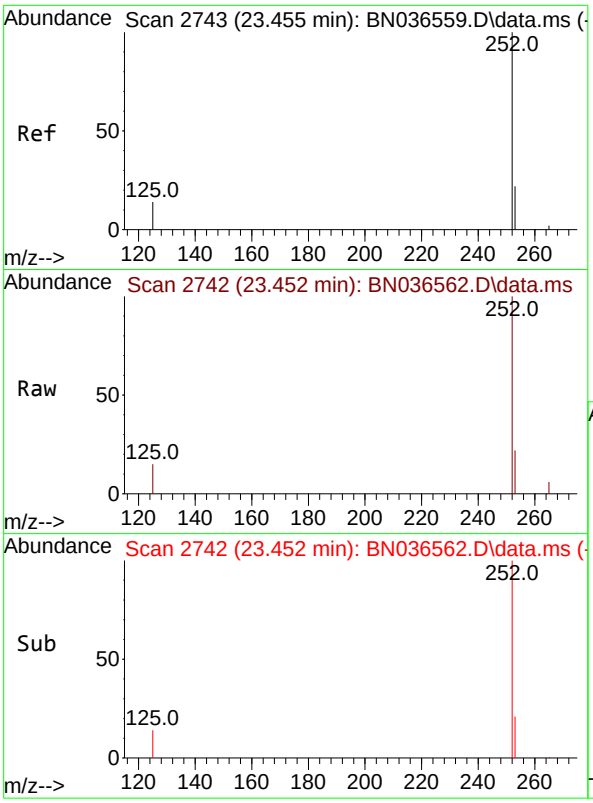


#38
Benzo(k)fluoranthene
Concen: 3.425 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#



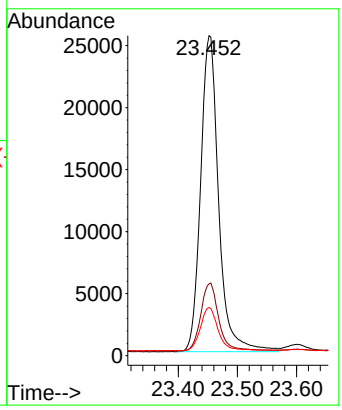


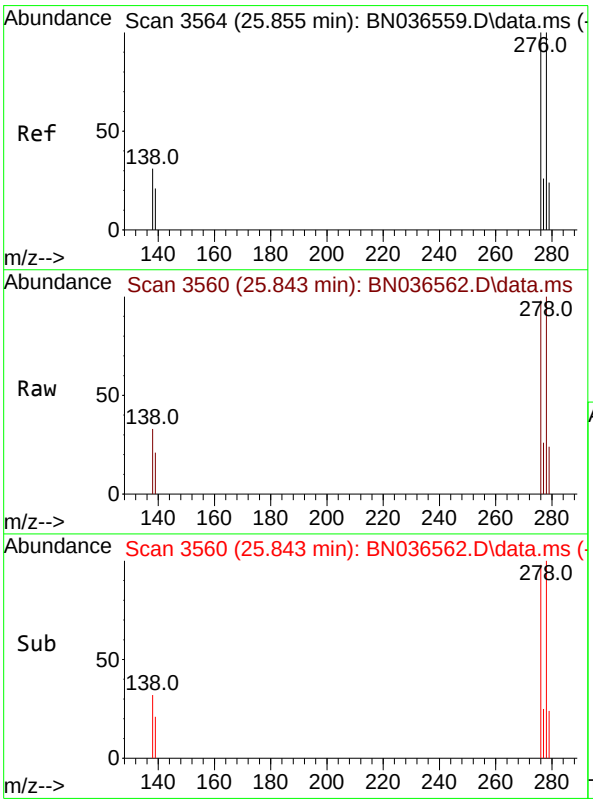
#39
Benzo(a)pyrene
Concen: 3.523 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#

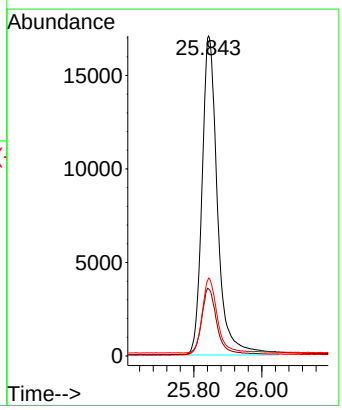


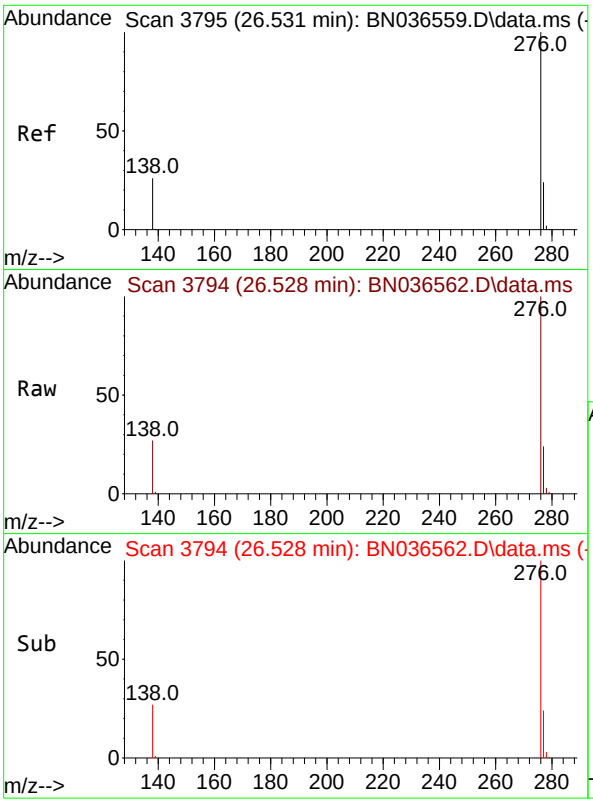


#40
Dibenzo(a,h)anthracene
Concen: 3.846 ng
RT: 25.843 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#



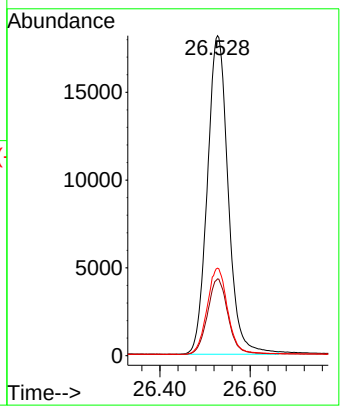


#41
Benzo(g,h,i)perylene
Concen: 3.606 ng
RT: 26.528 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

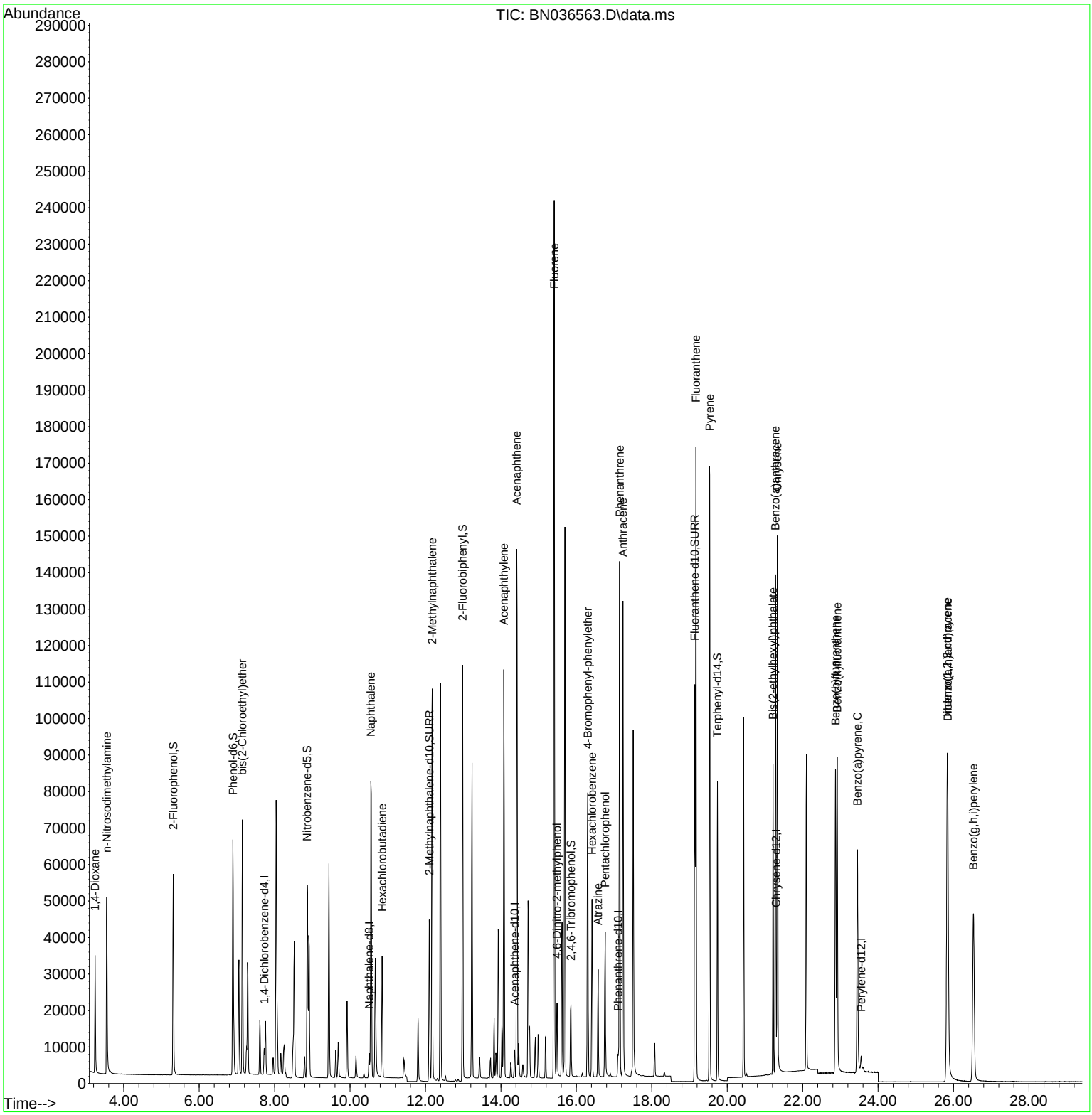
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	#	0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng		0.00
29) Chrysene-d12	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

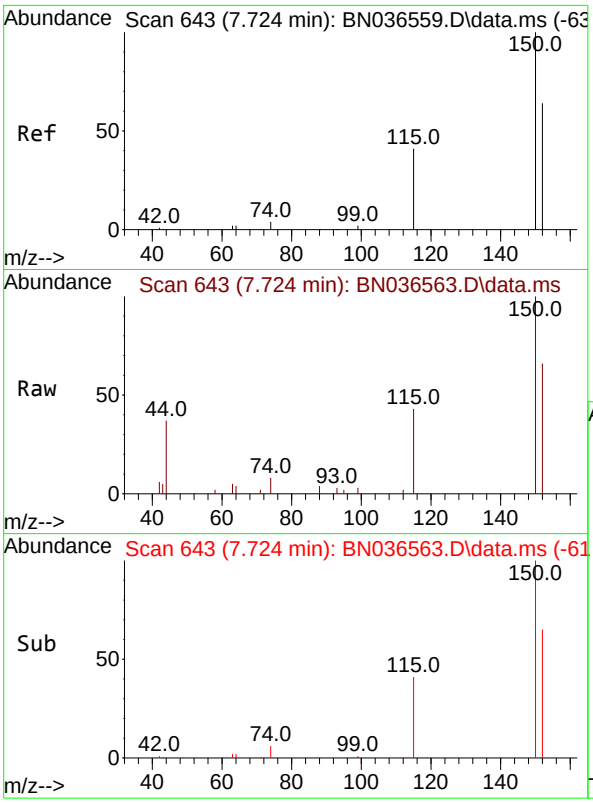
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



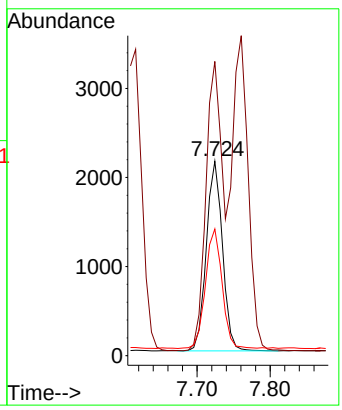


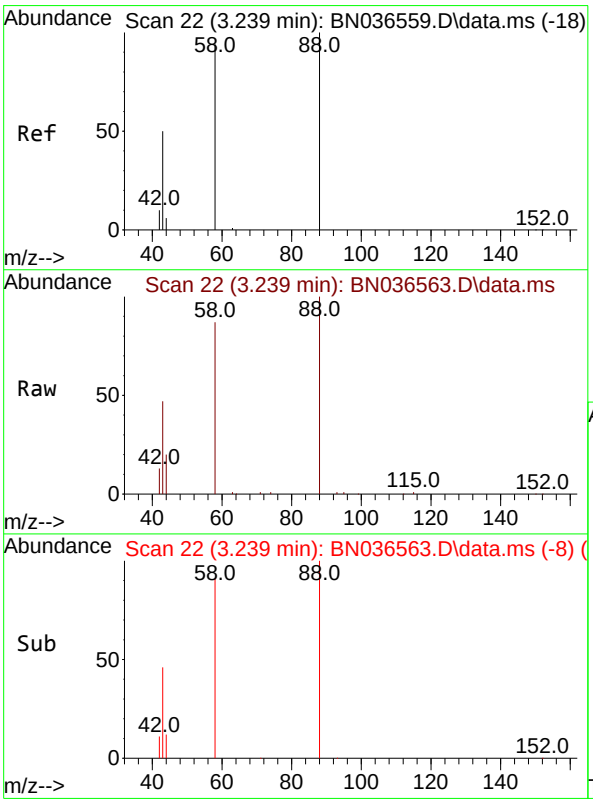
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

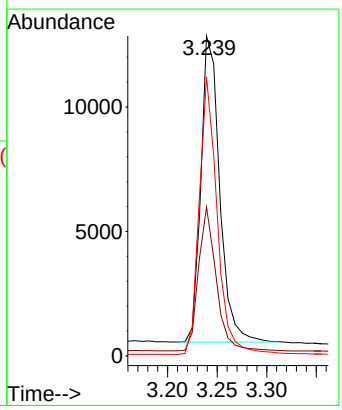


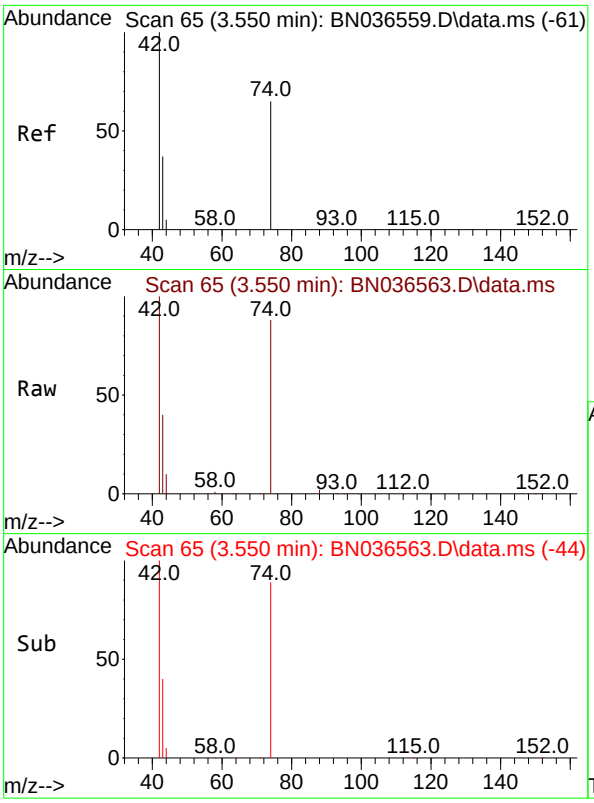


#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



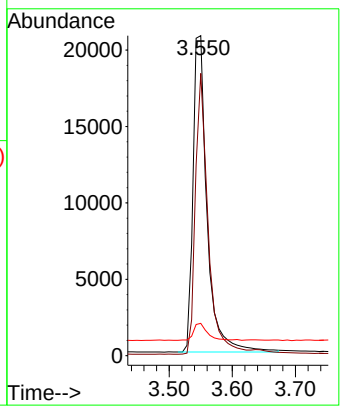


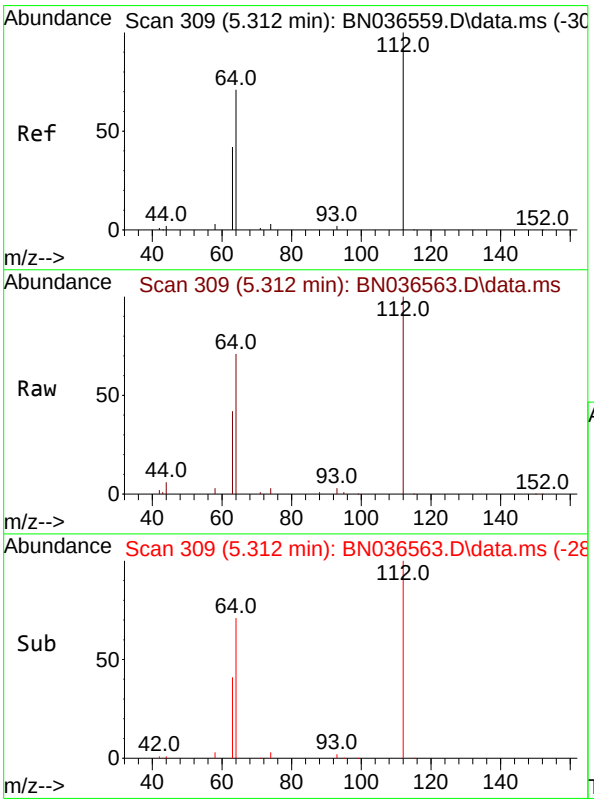
#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

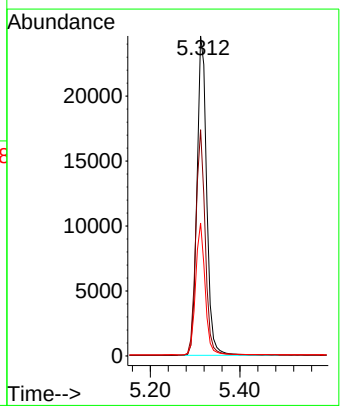


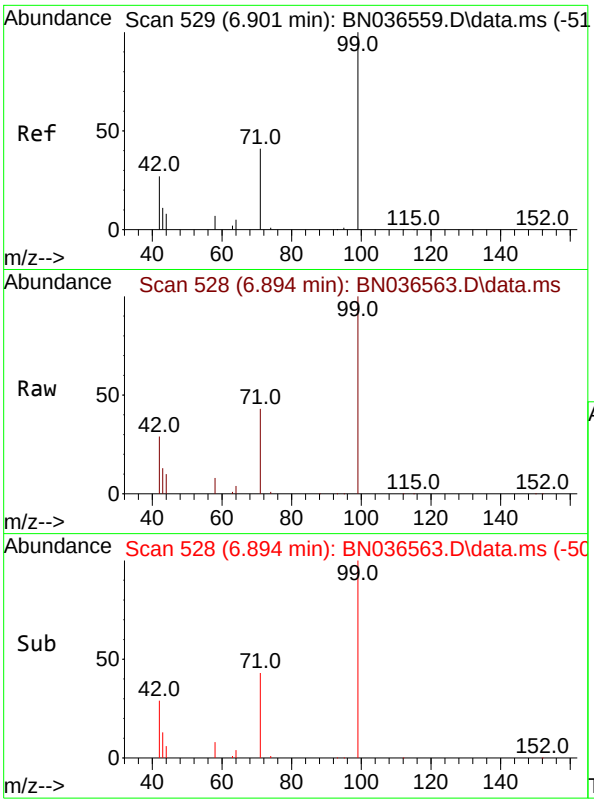


#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



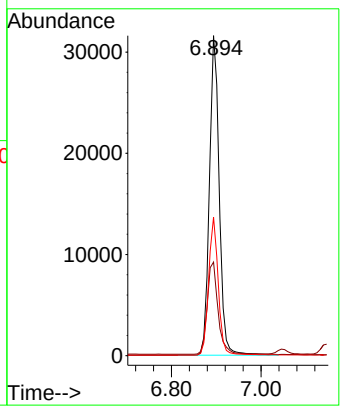


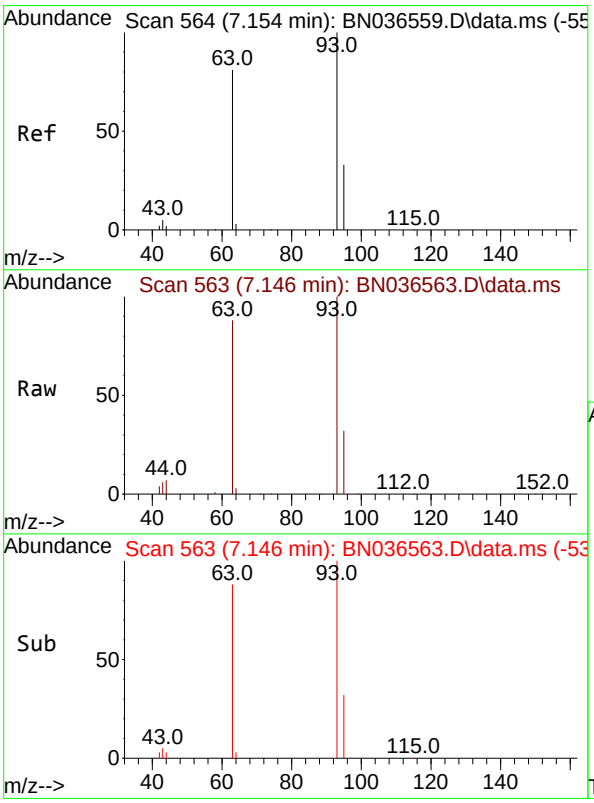
#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

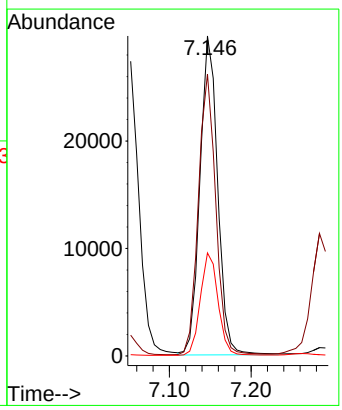


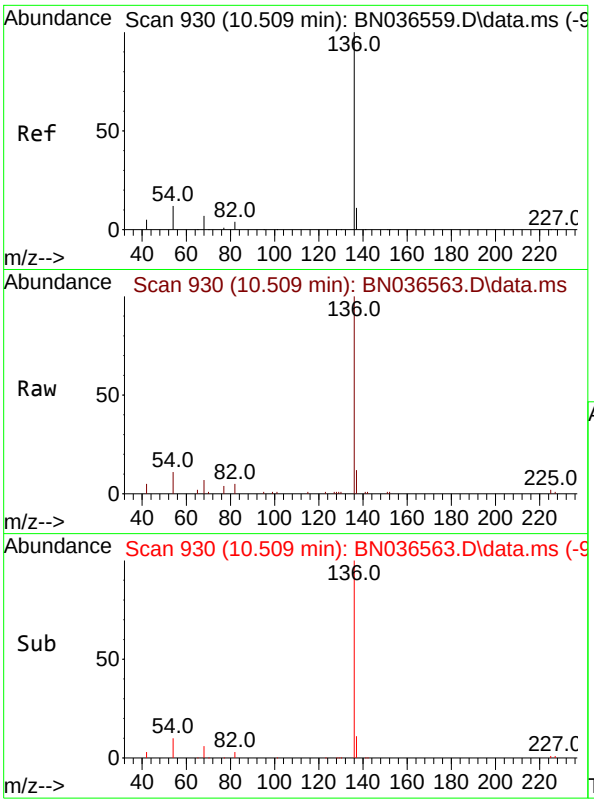


#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



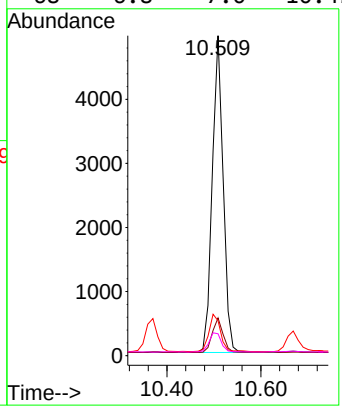


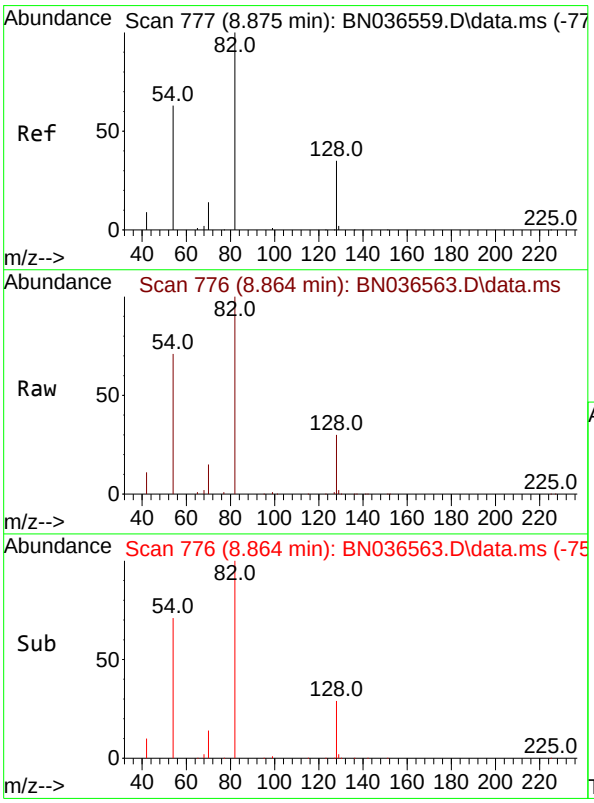
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

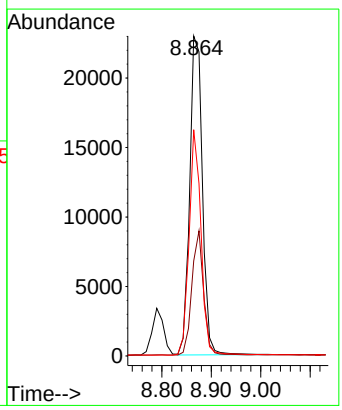


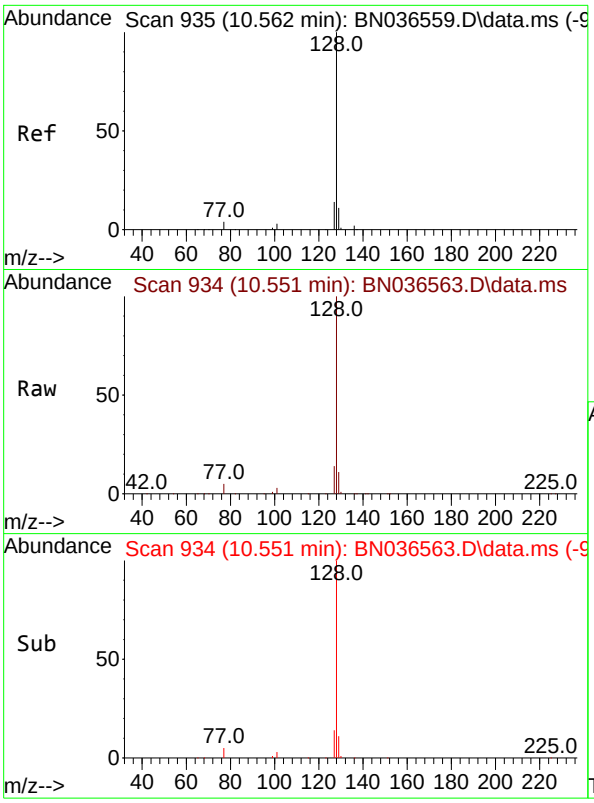


#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



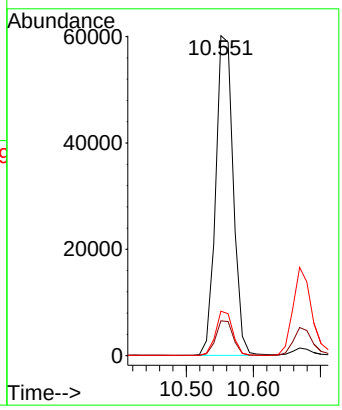


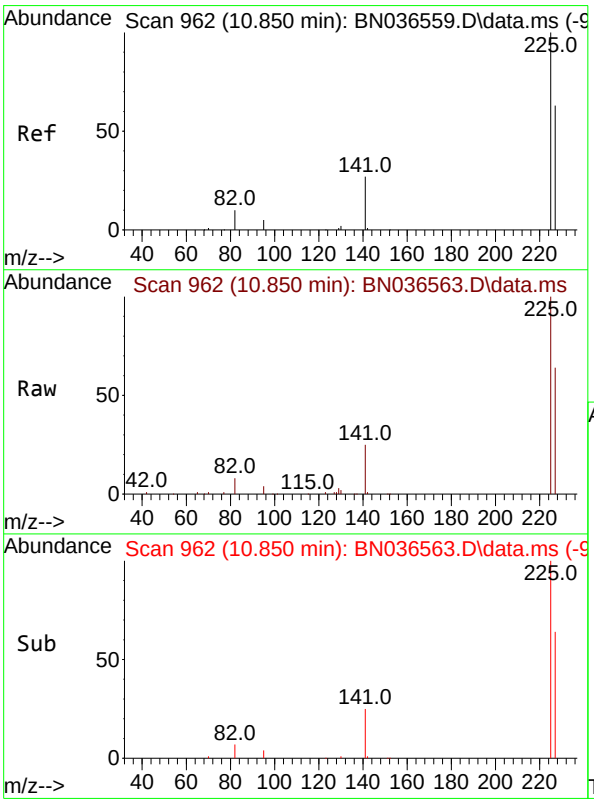
#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

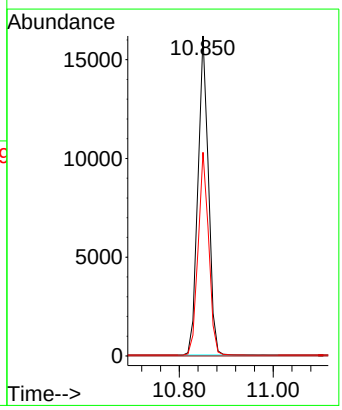


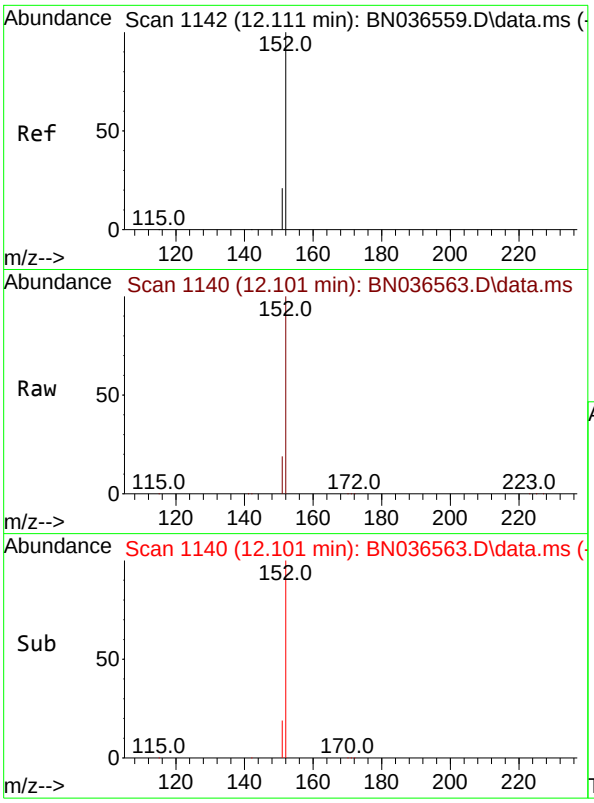


#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



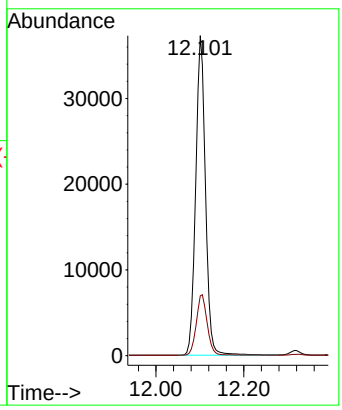


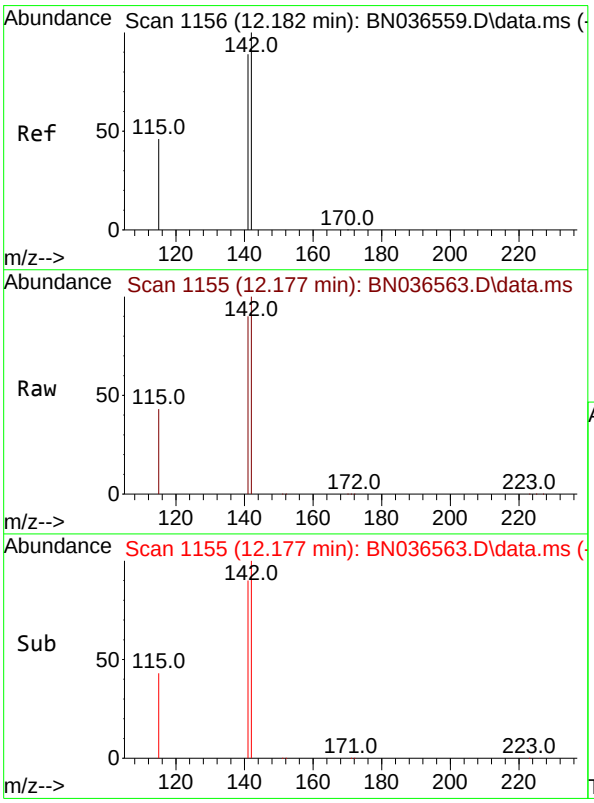
#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 58048

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

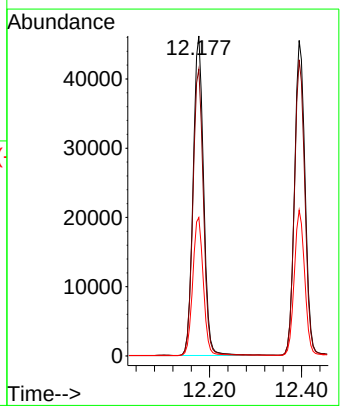


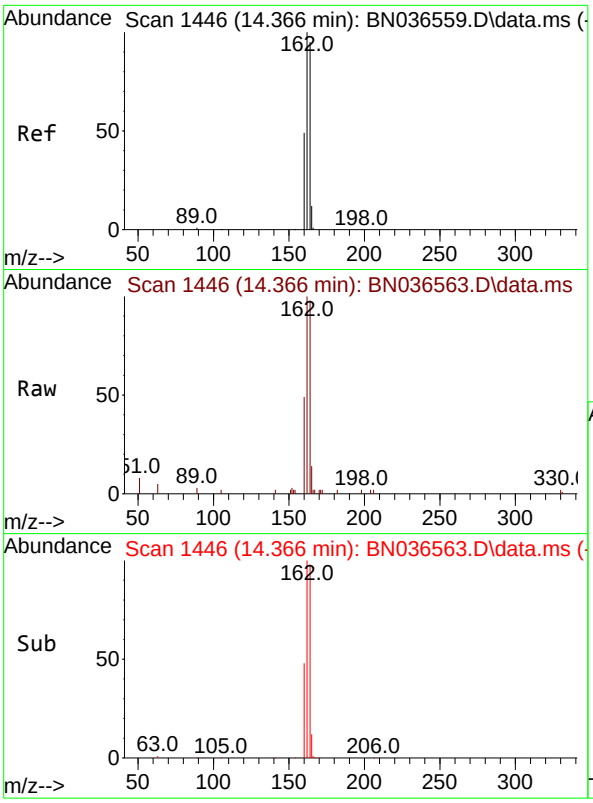


#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



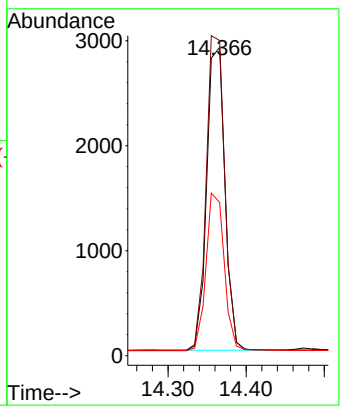


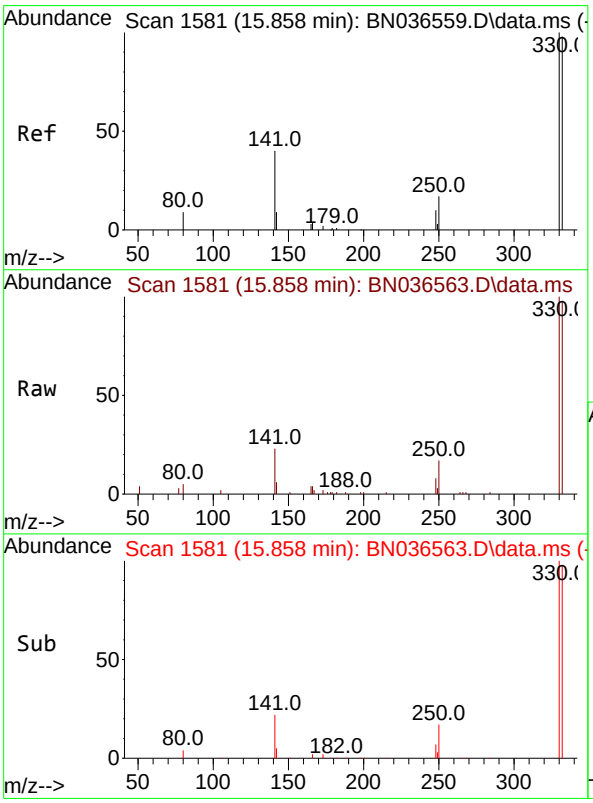
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

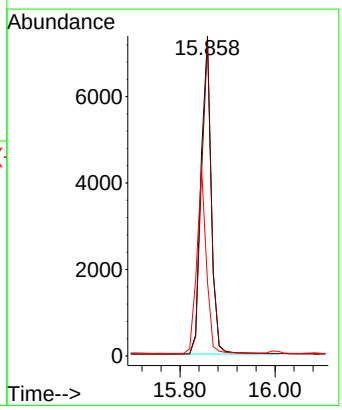


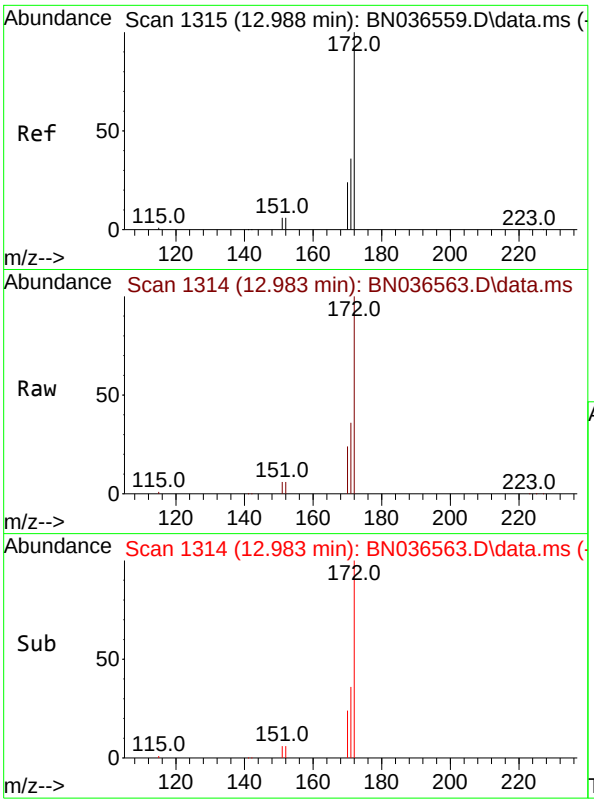


#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



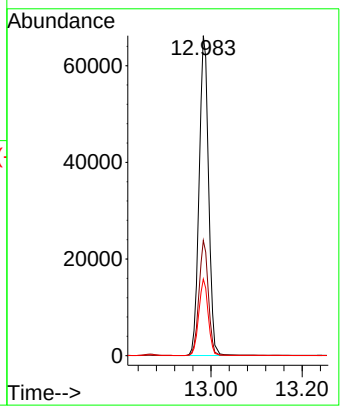


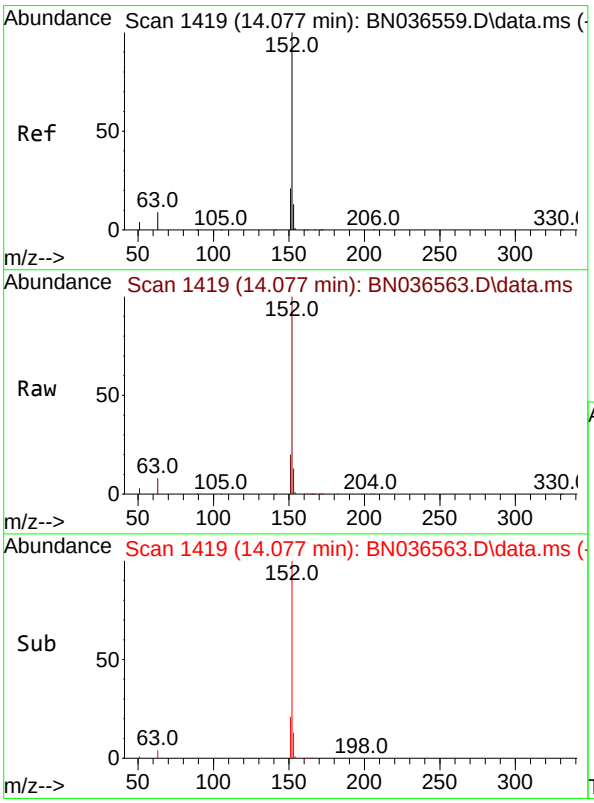
#15
2-Fluorobiphenyl
Concen: 5.199 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

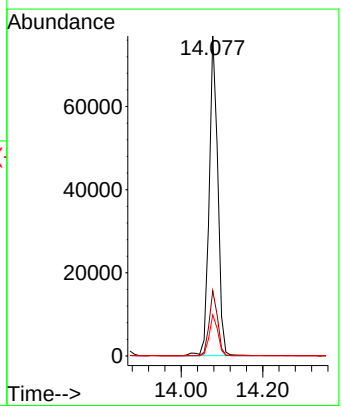


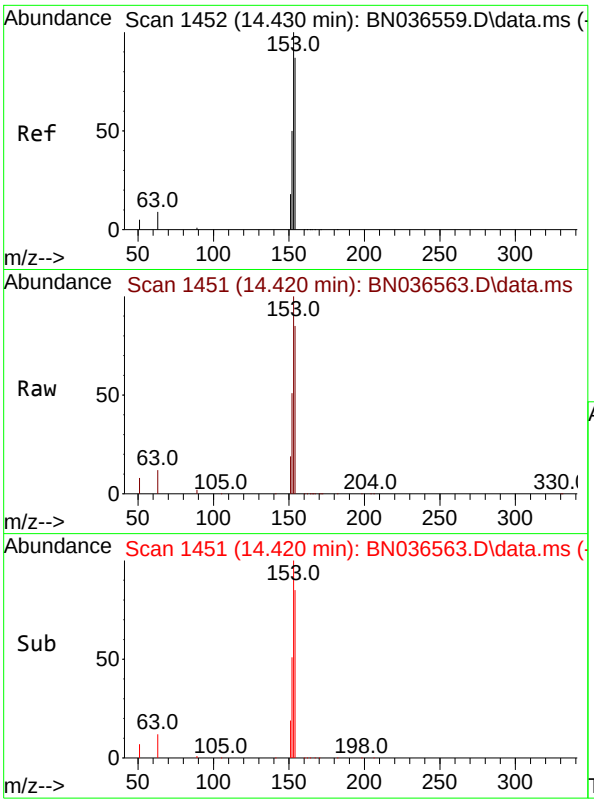


#16
Acenaphthylene
Concen: 5.125 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



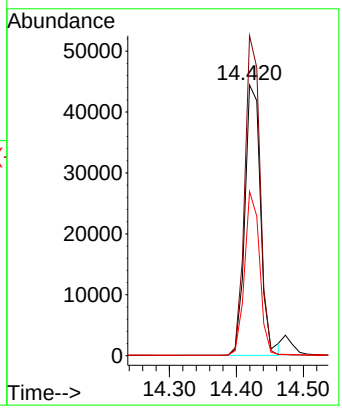


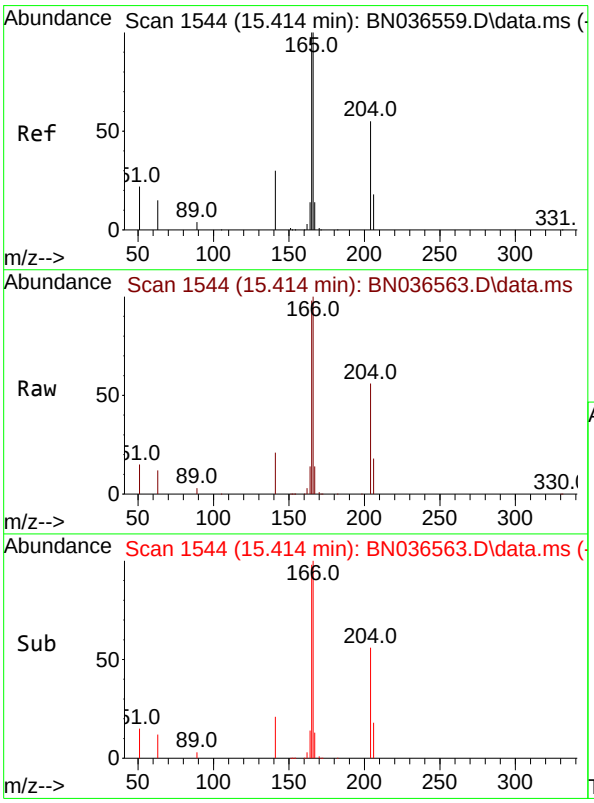
#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

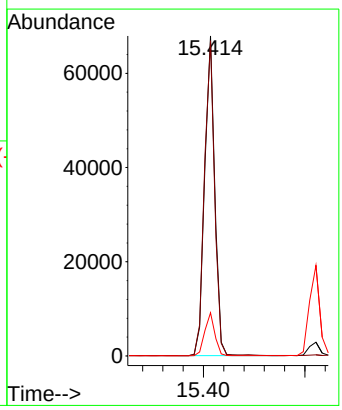


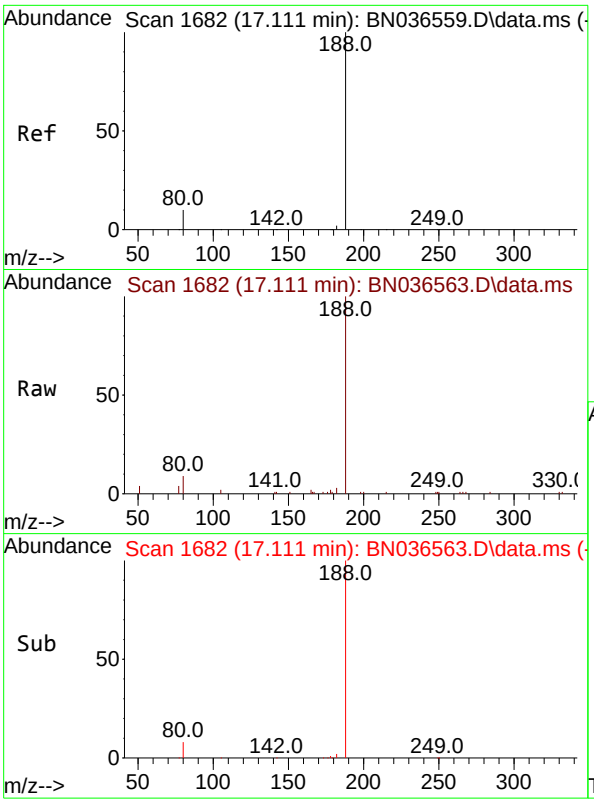


#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



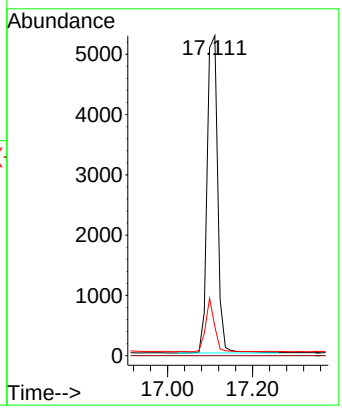


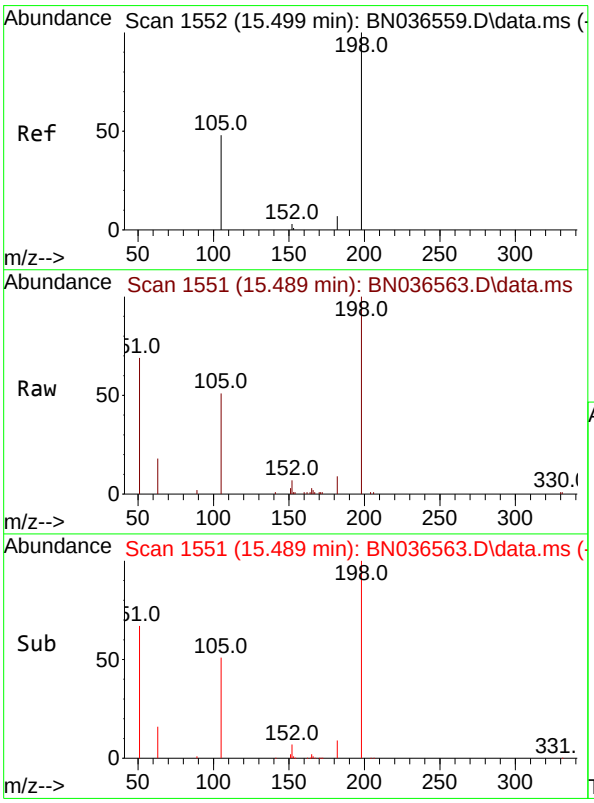
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

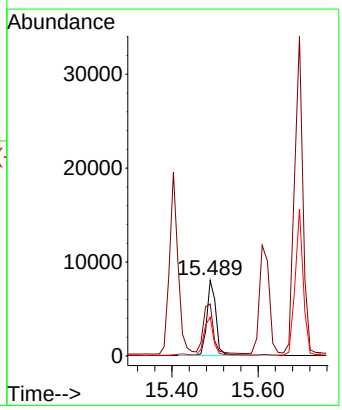


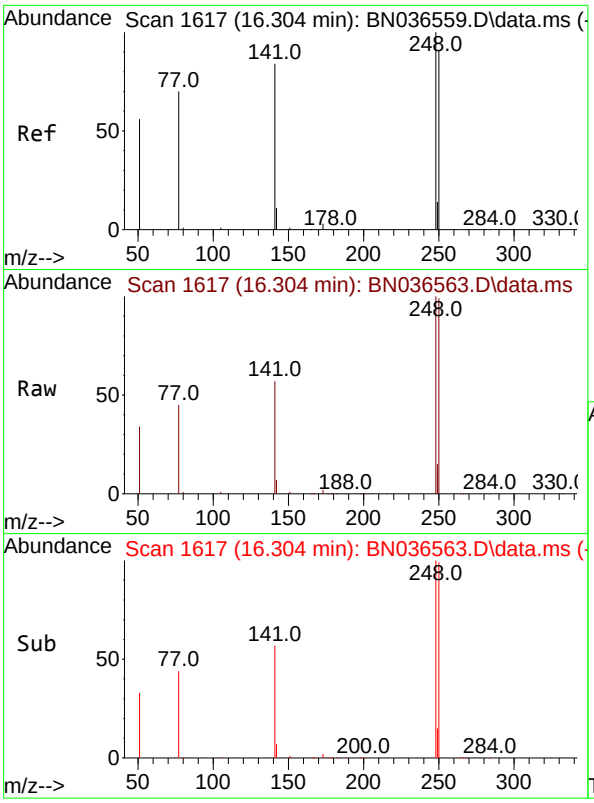


#20
4,6-Dinitro-2-methylphenol
Concen: 4.968 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#



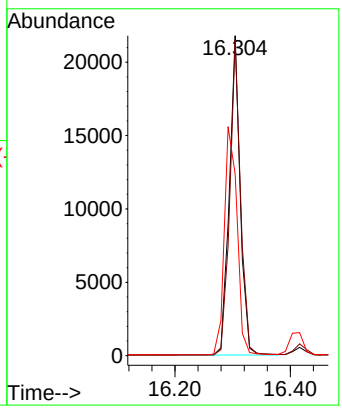


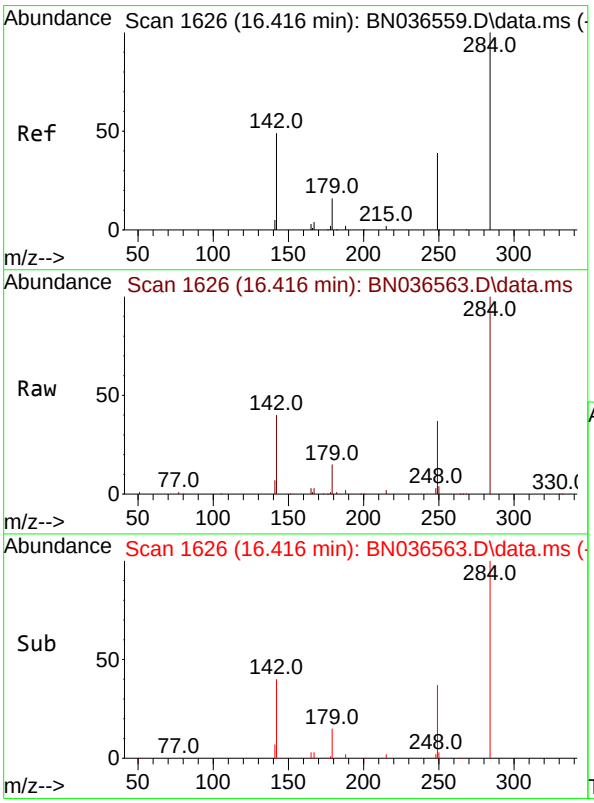
#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

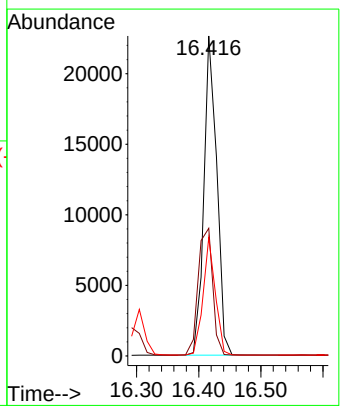


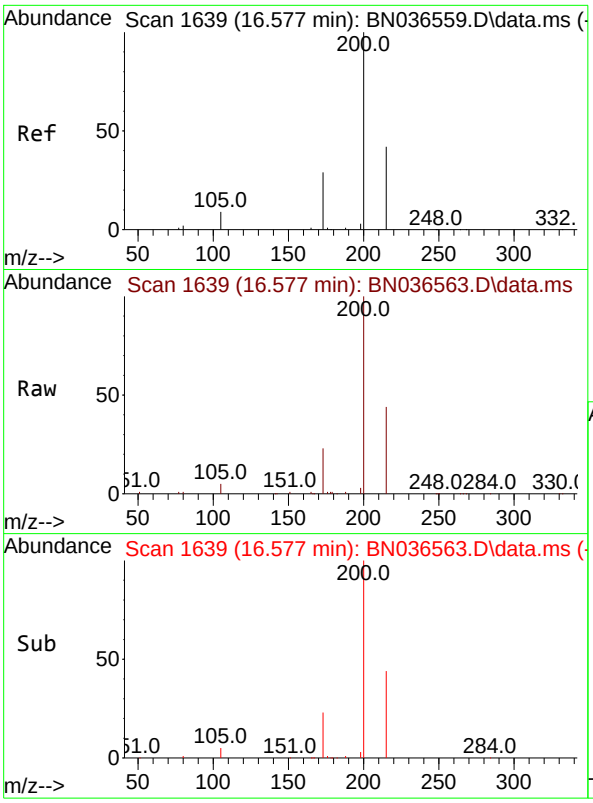


#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



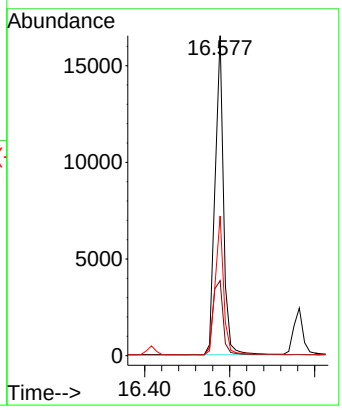


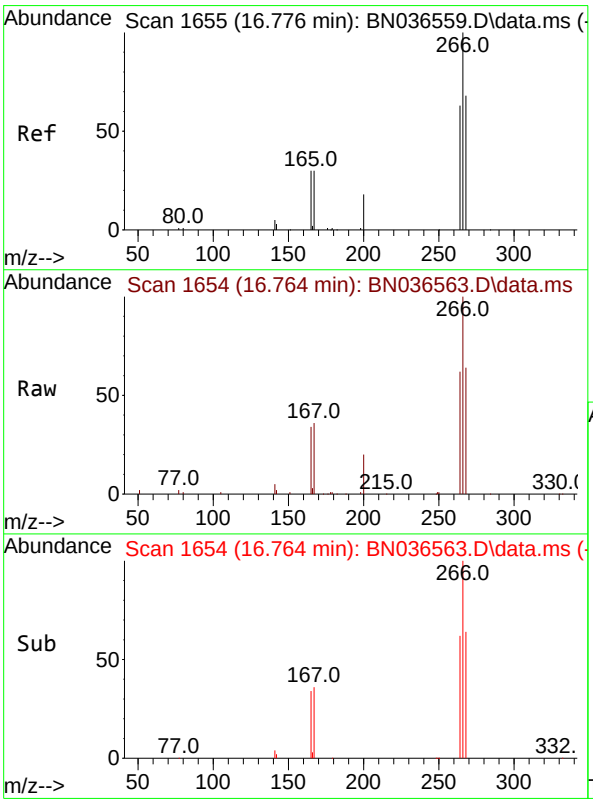
#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

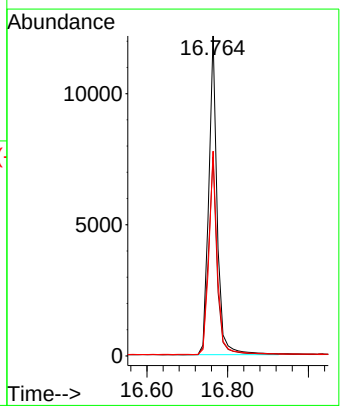


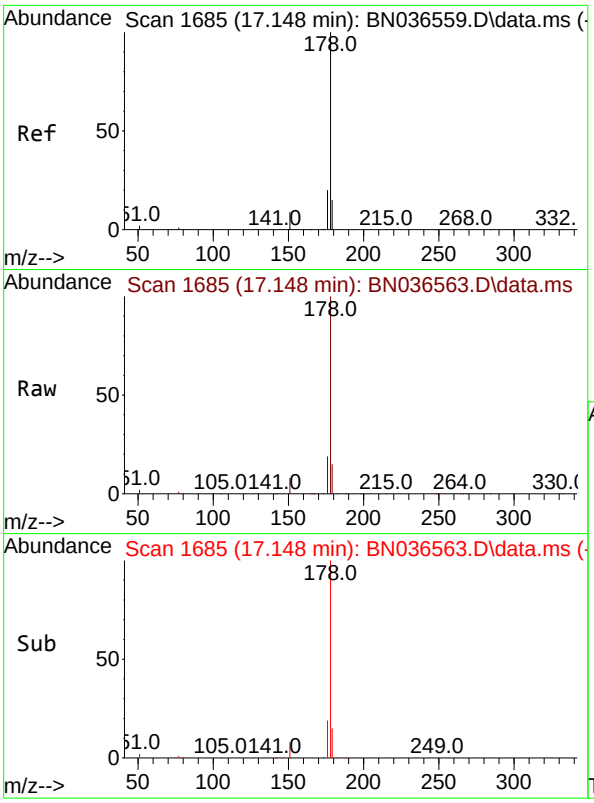


#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



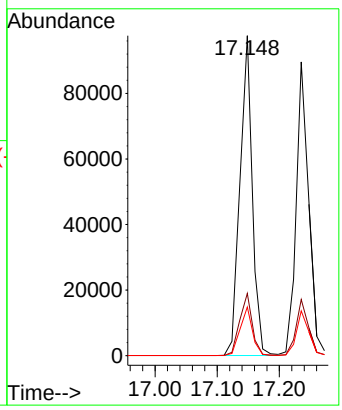


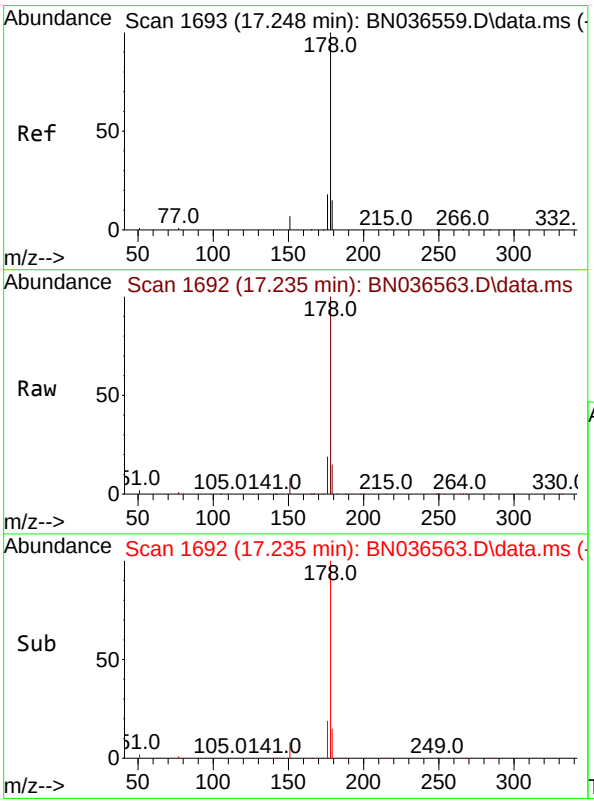
#25
Phenanthrene
Concen: 4.979 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

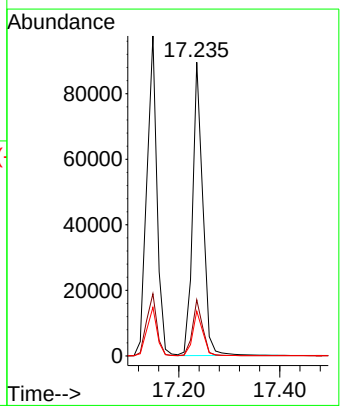


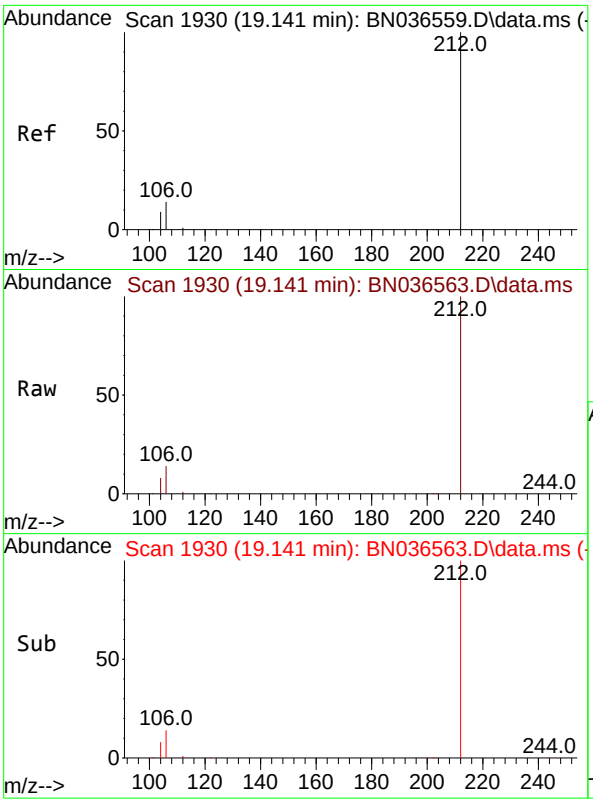


#26
Anthracene
Concen: 5.135 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



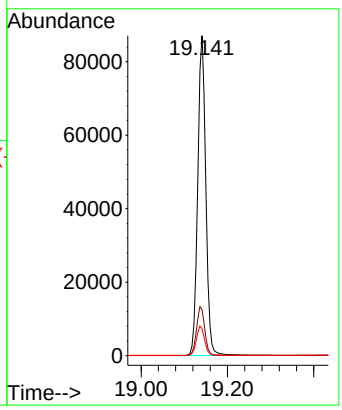


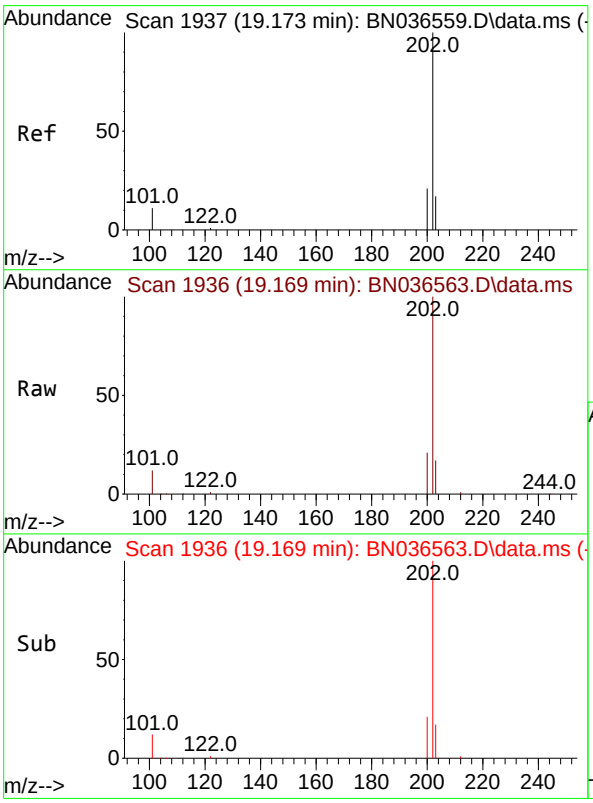
#27
Fluoranthene-d10
Concen: 4.879 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

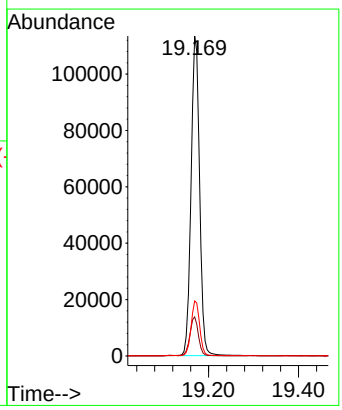


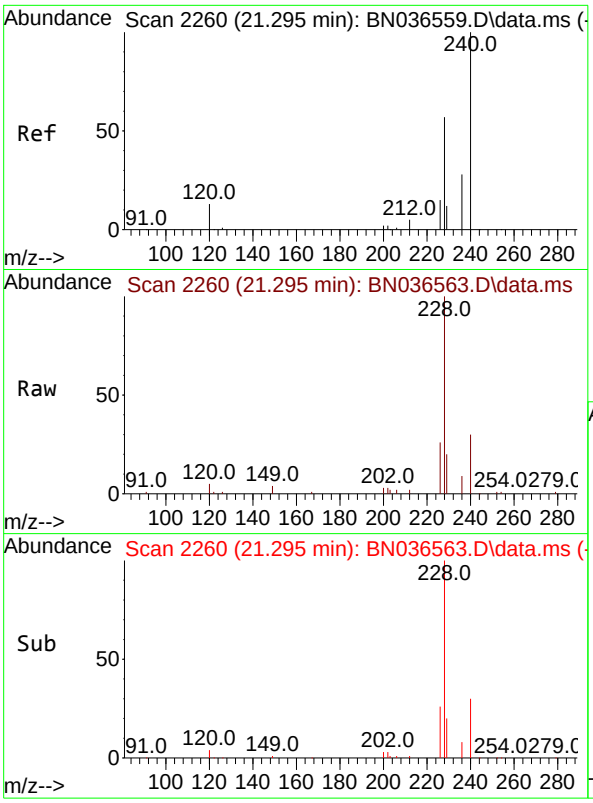


#28
Fluoranthene
Concen: 4.883 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



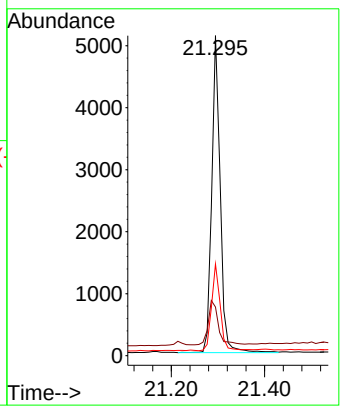


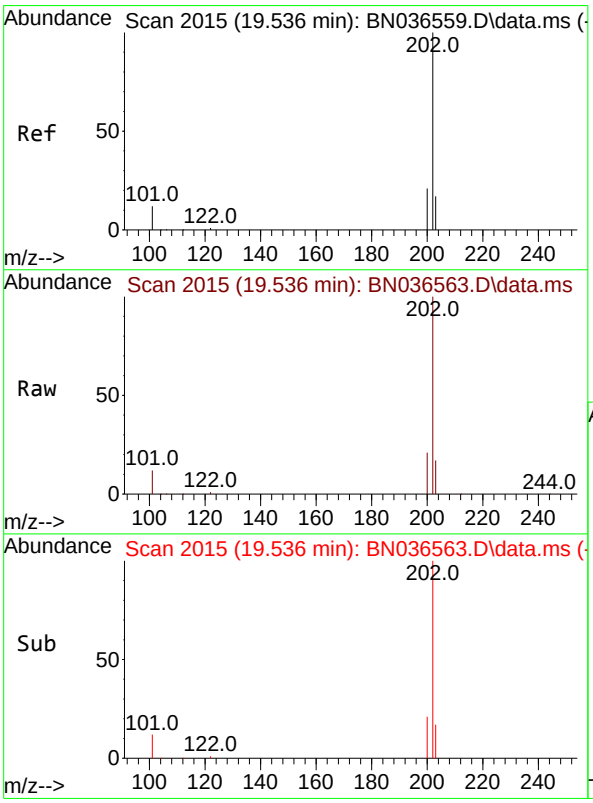
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

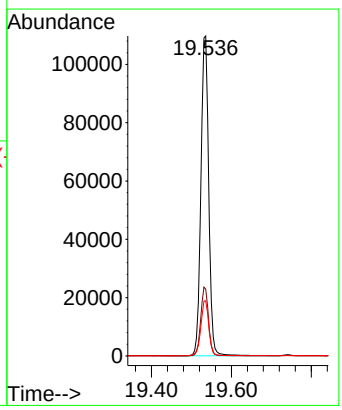


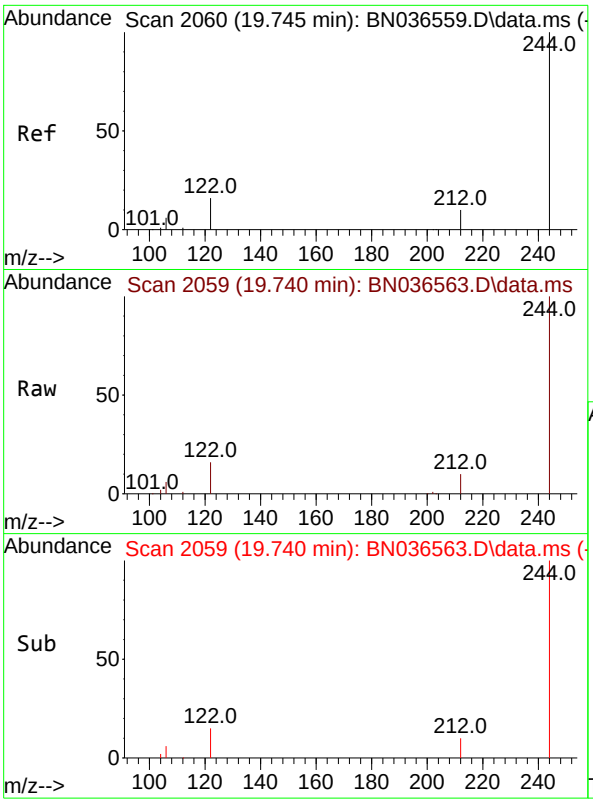


#30
Pyrene
Concen: 4.695 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



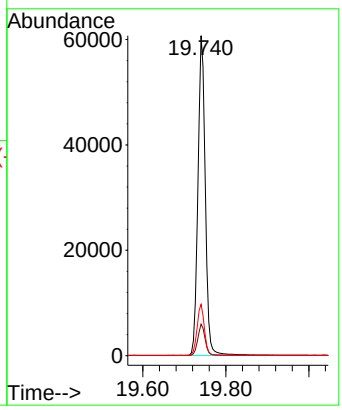


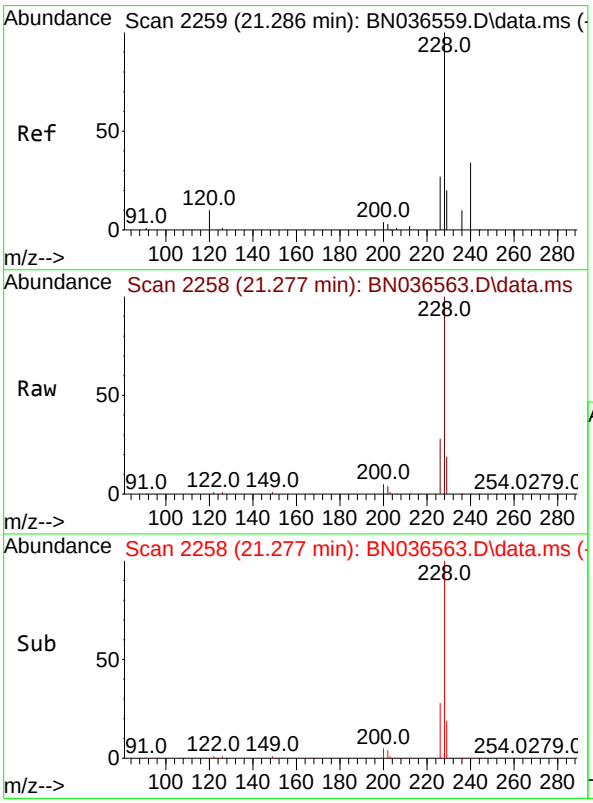
#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

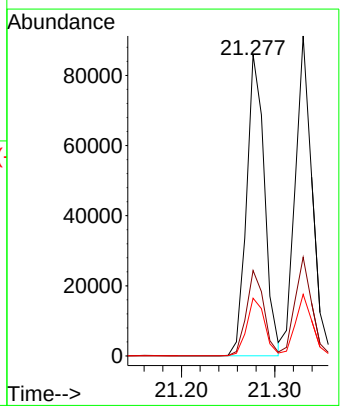


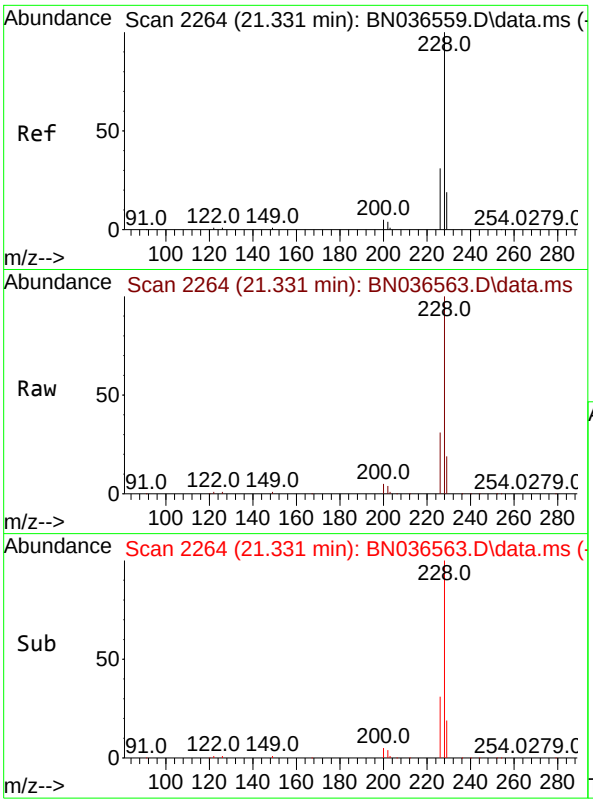


#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



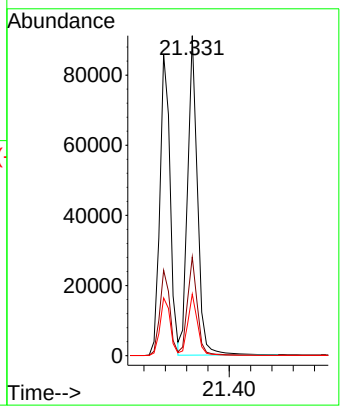


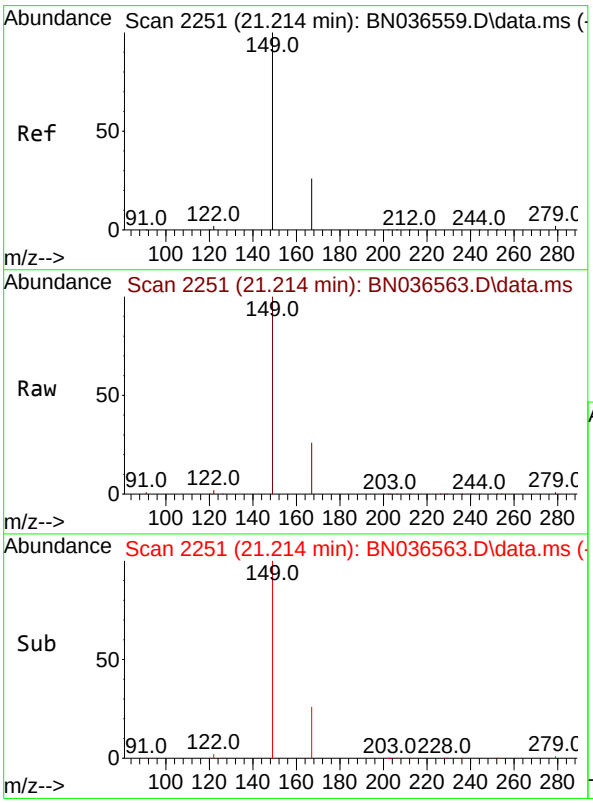
#33
Chrysene
Concen: 4.764 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

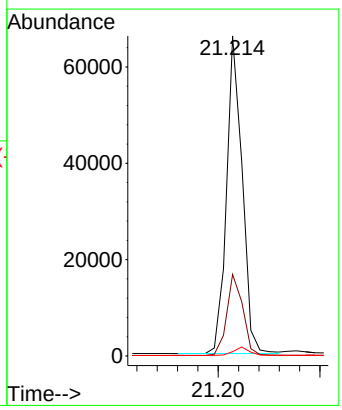


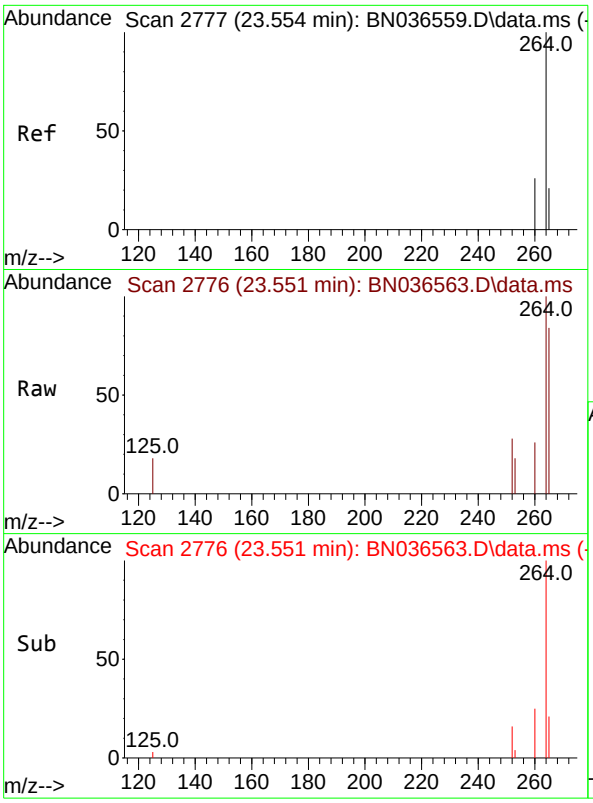


#34
Bis(2-ethylhexyl)phthalate
Concen: 4.390 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#



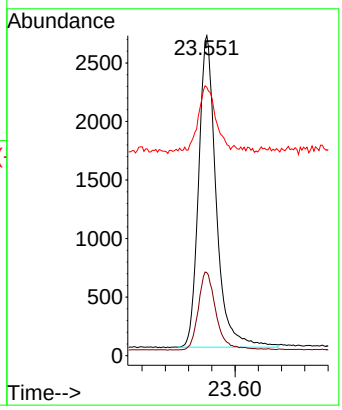


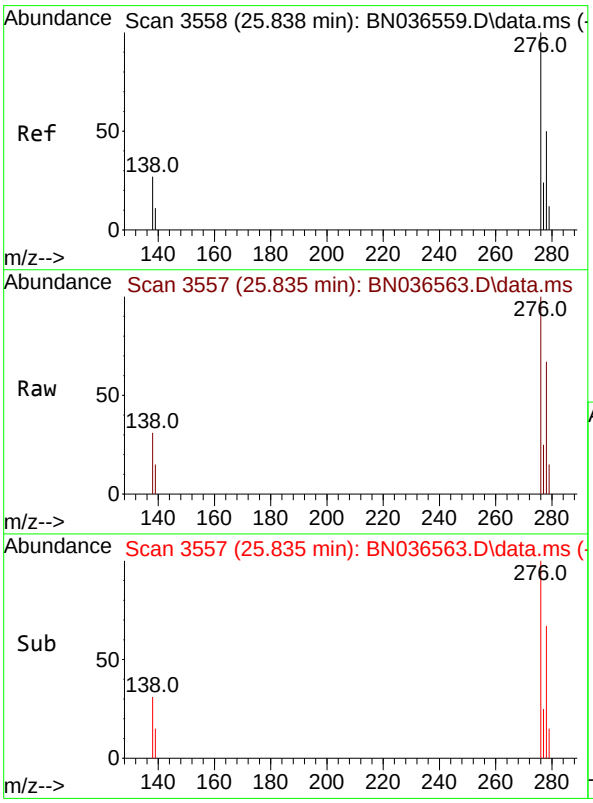
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

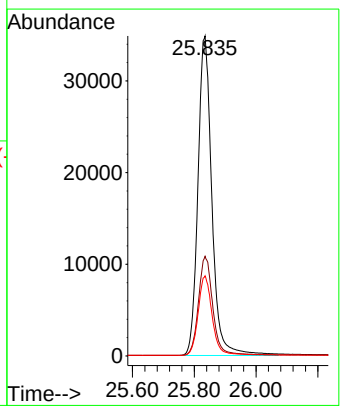


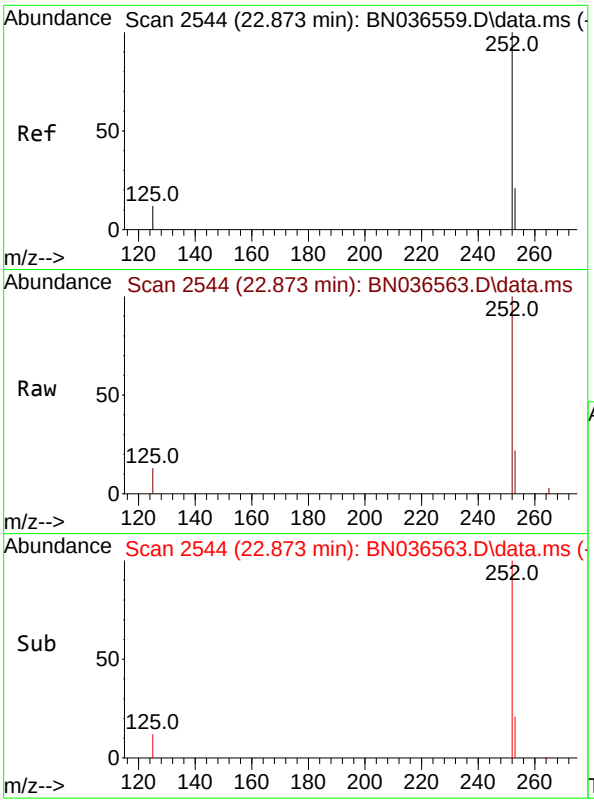


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.440 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



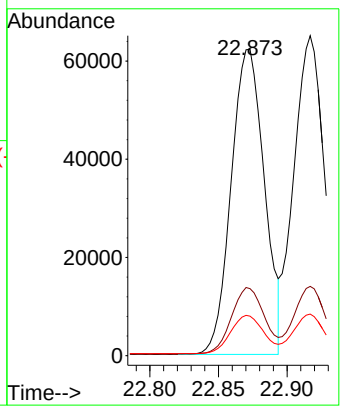


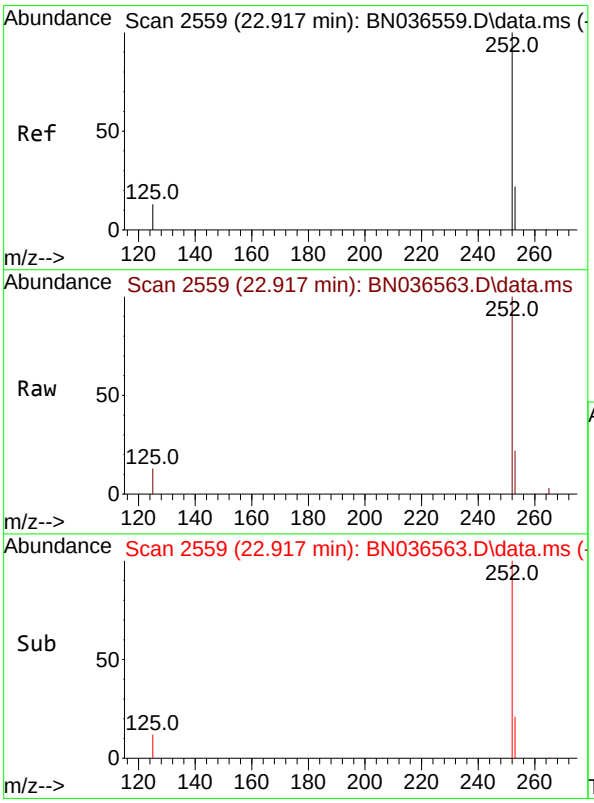
#37
Benzo(b)fluoranthene
Concen: 5.146 ng
RT: 22.873 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

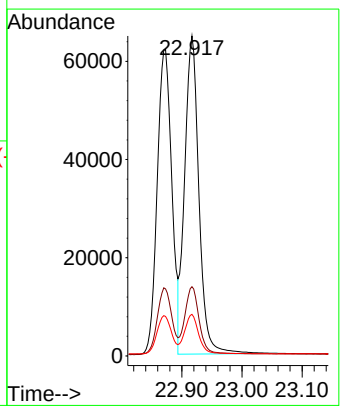


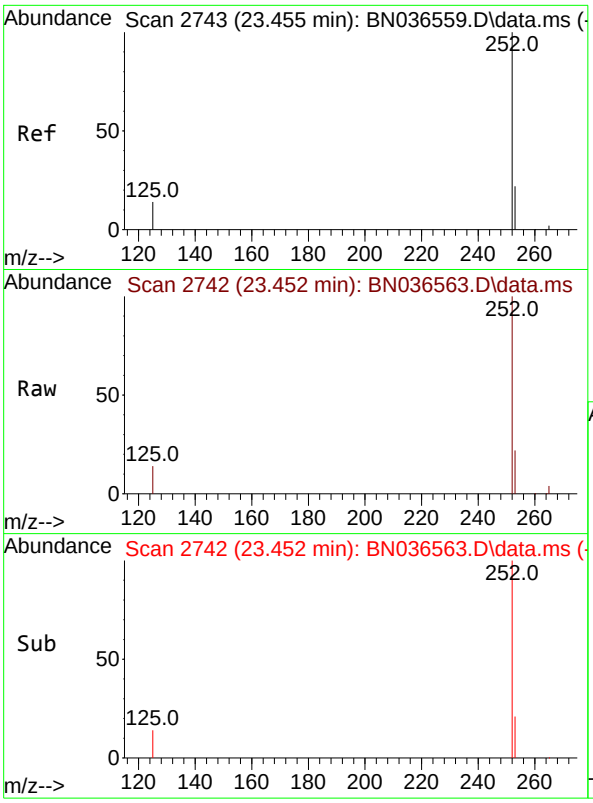


#38
Benzo(k)fluoranthene
Concen: 5.022 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#



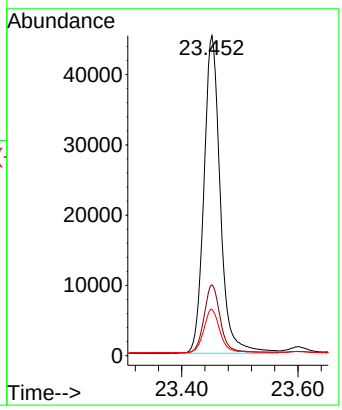


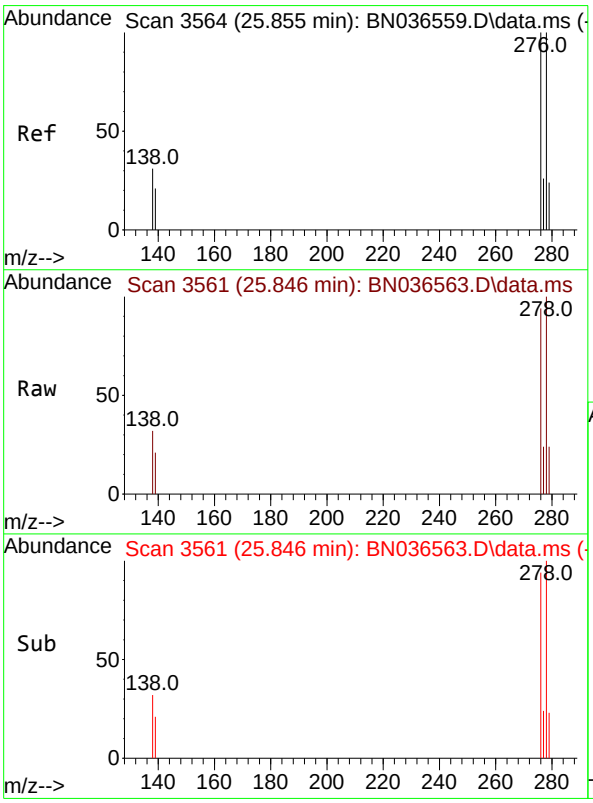
#39
Benzo(a)pyrene
Concen: 5.170 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

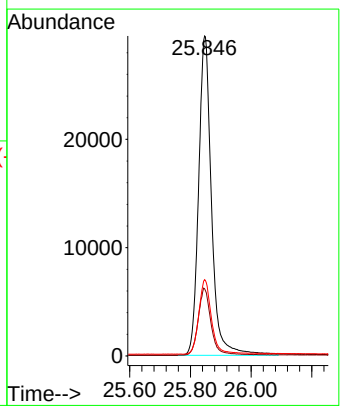


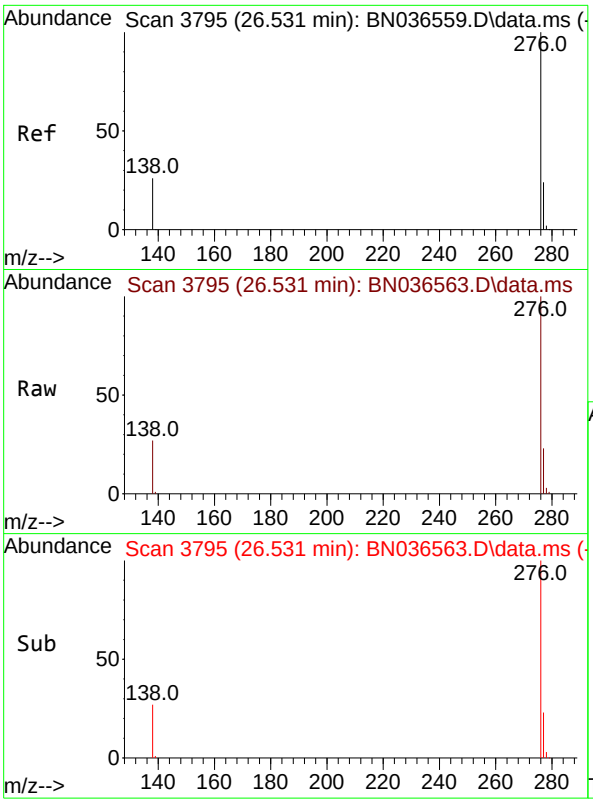


#40
Dibenzo(a,h)anthracene
Concen: 5.568 ng
RT: 25.846 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#



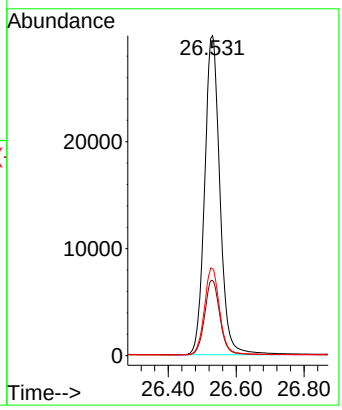


#41
Benzo(g,h,i)perylene
Concen: 5.189 ng
RT: 26.531 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

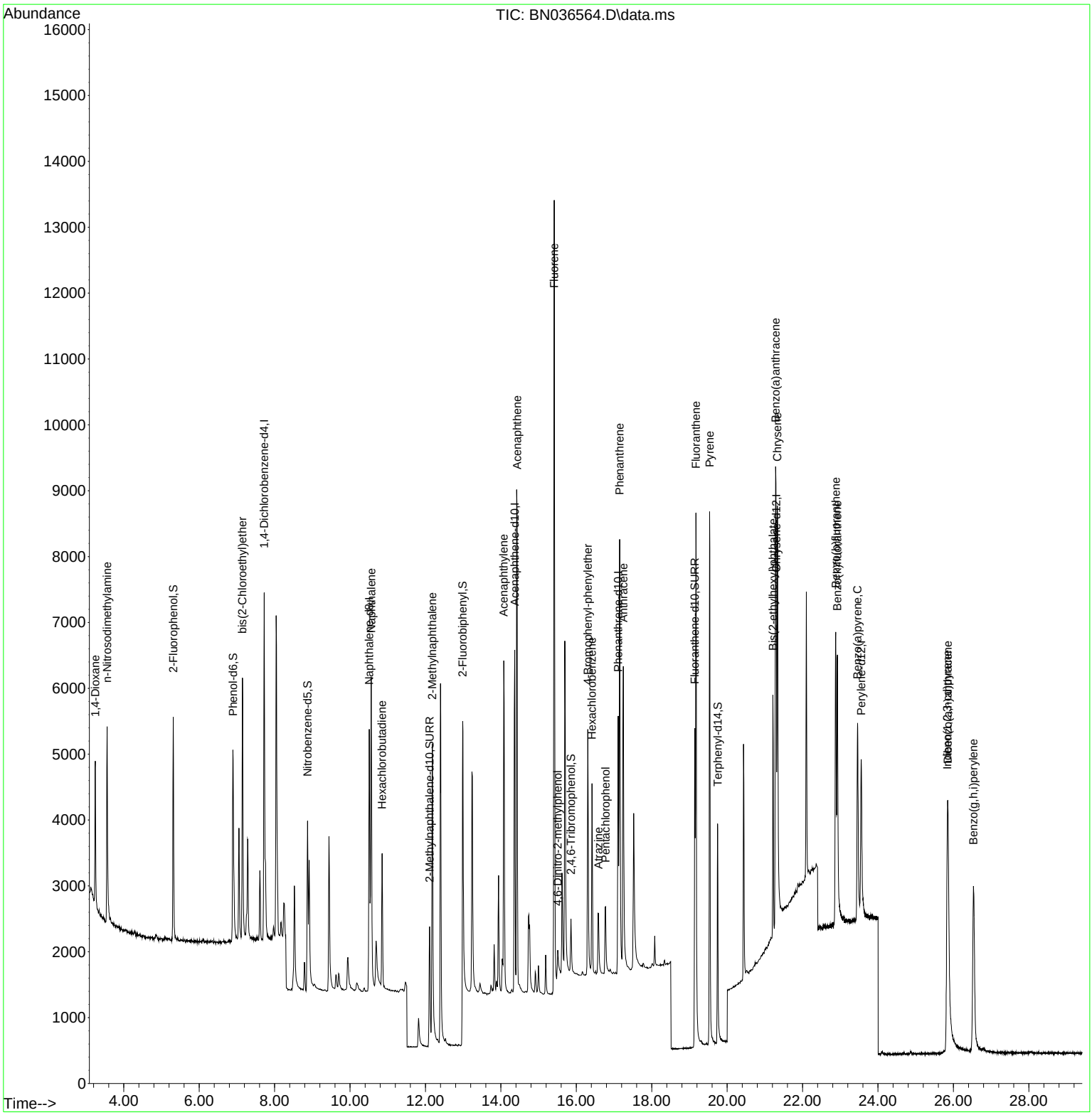
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng		0.00
29) Chrysene-d12	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

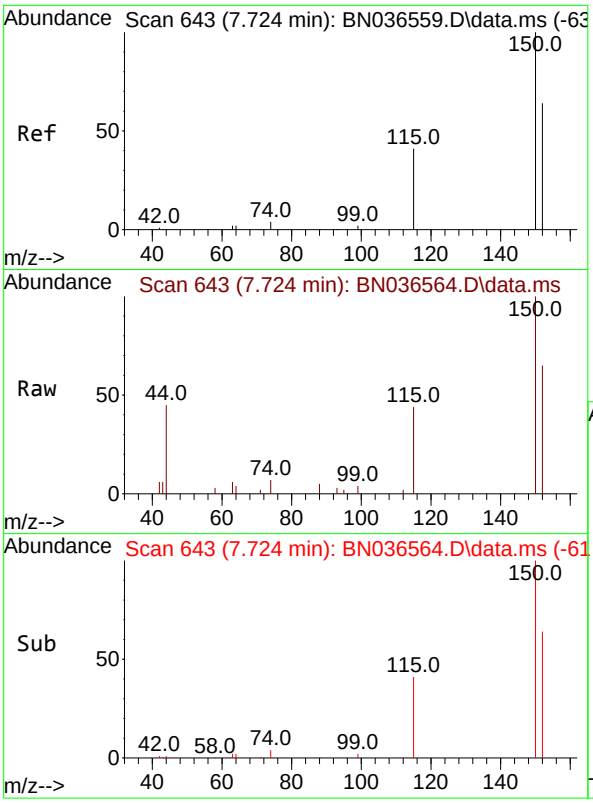
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



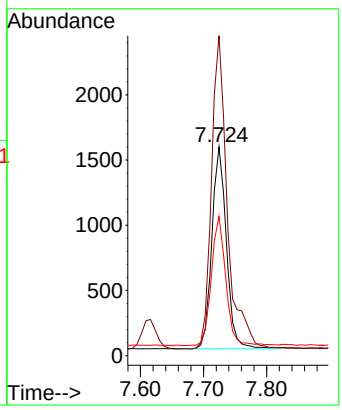


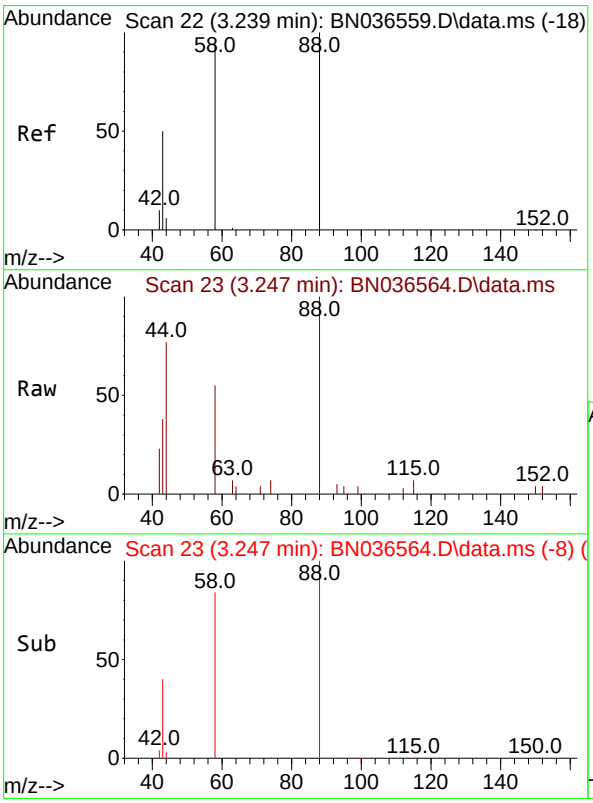
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

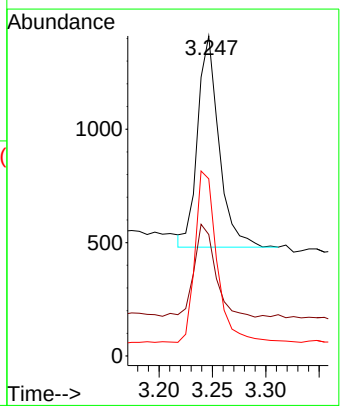


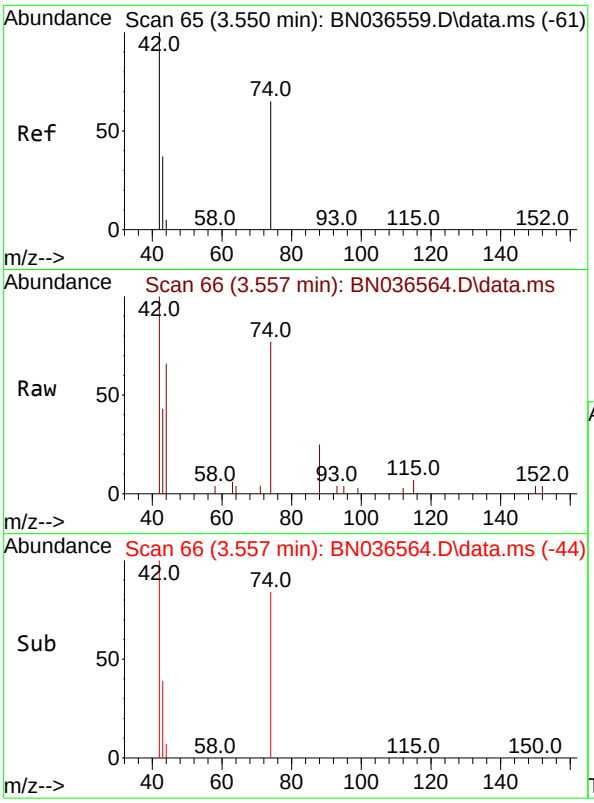


#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



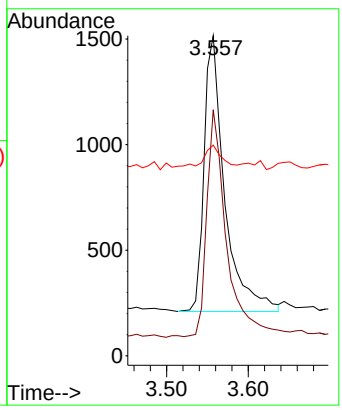


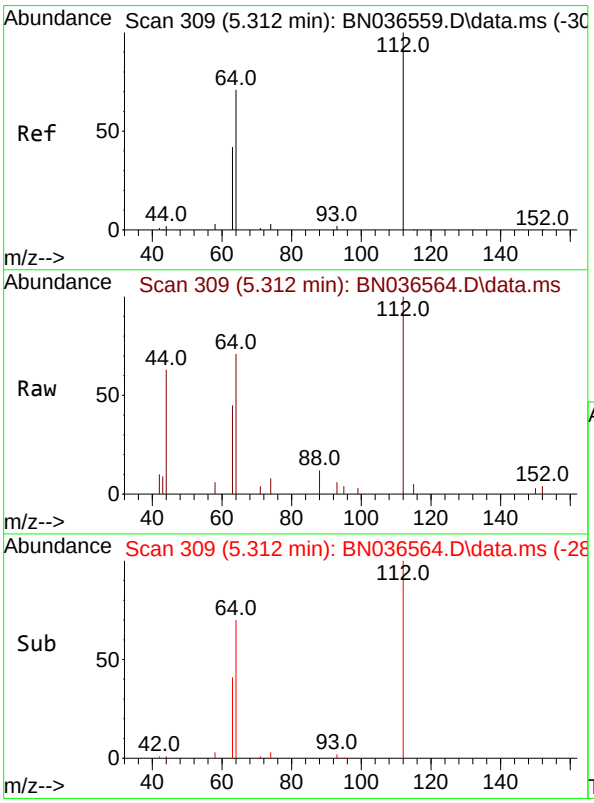
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

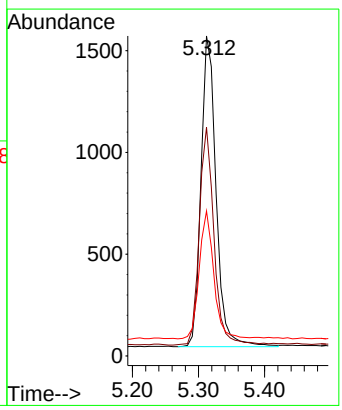


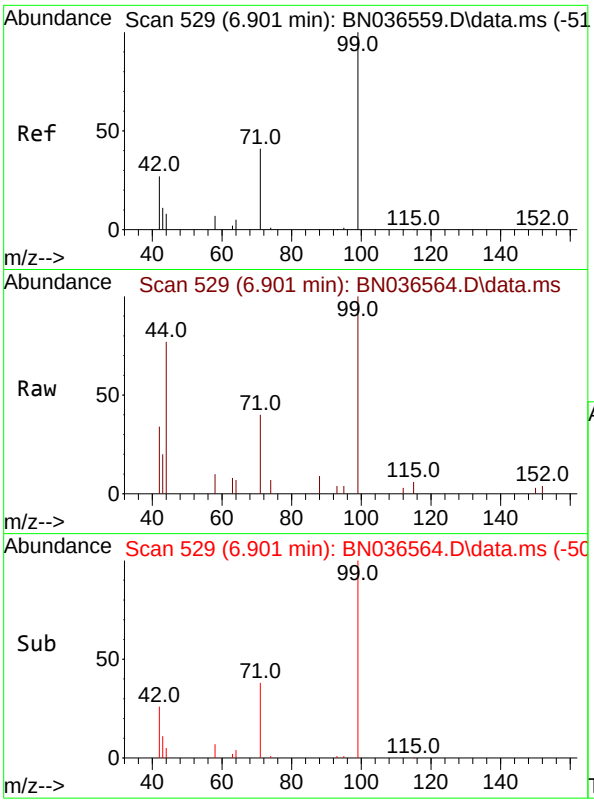


#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



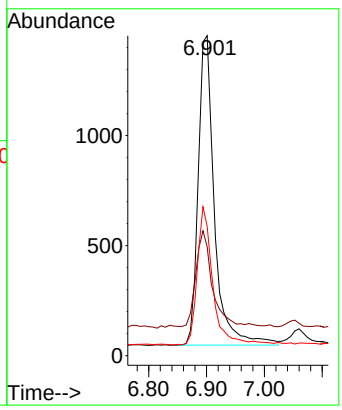


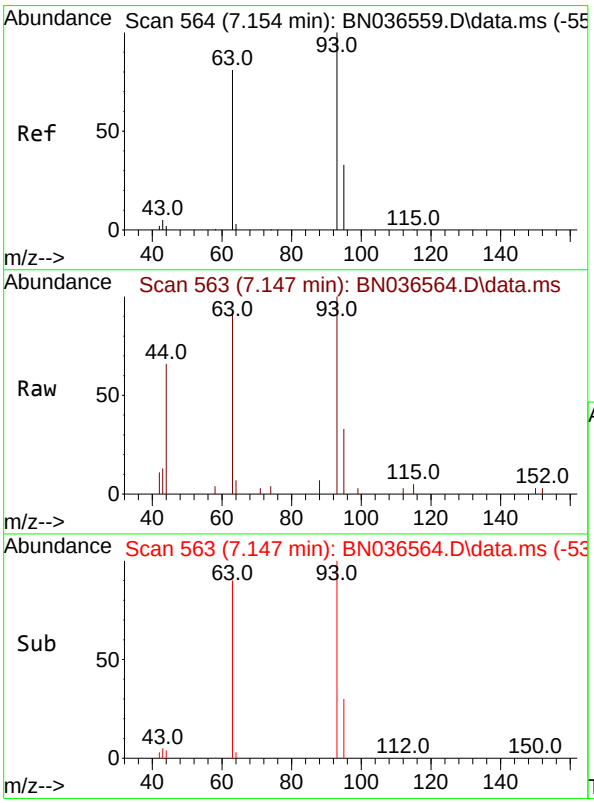
#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

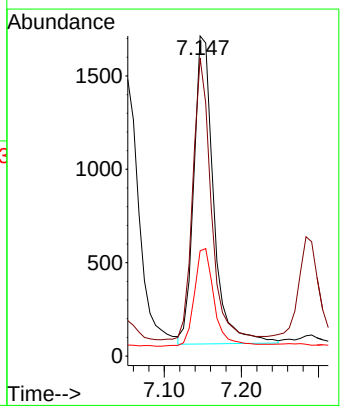


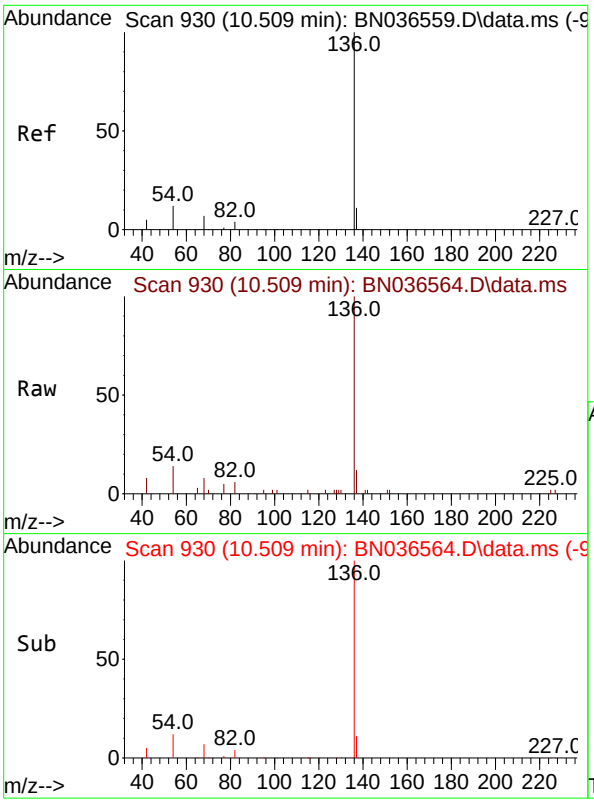


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



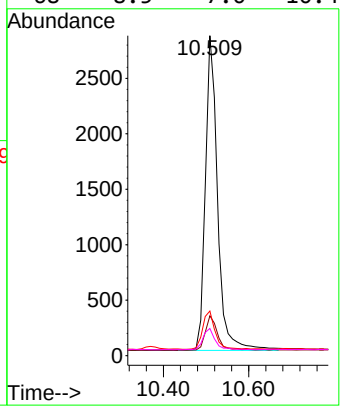


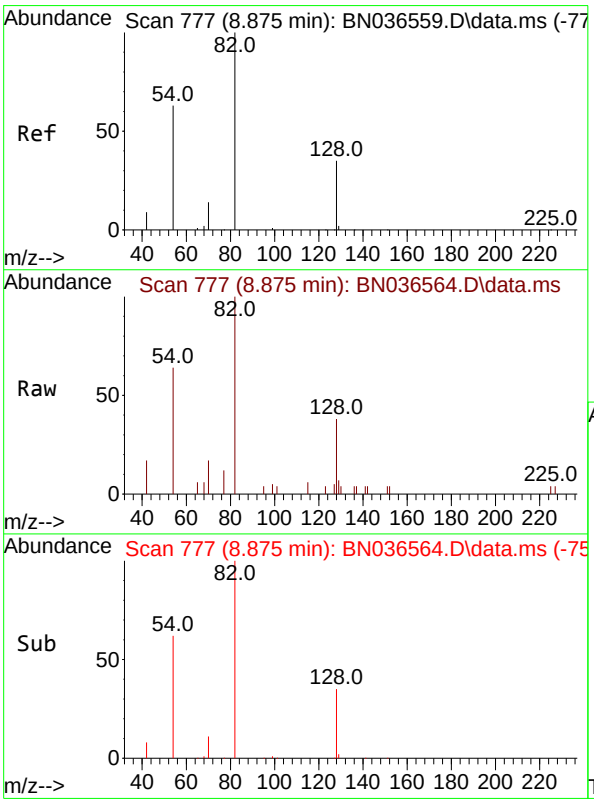
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

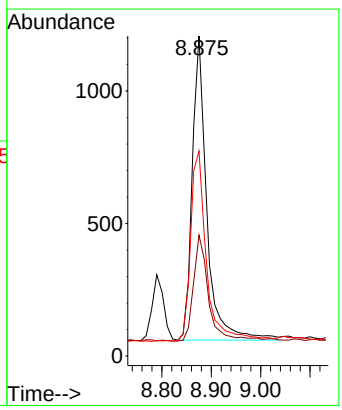


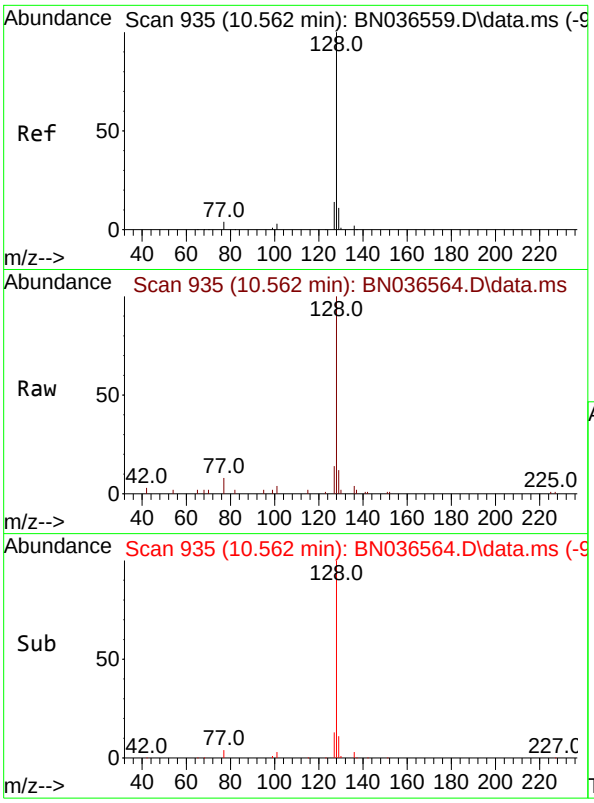


#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



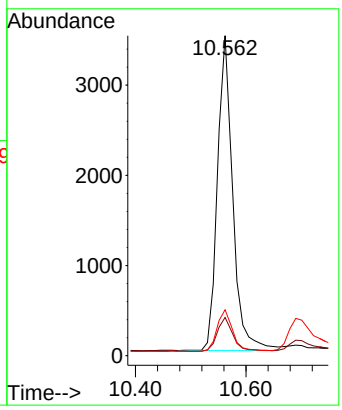


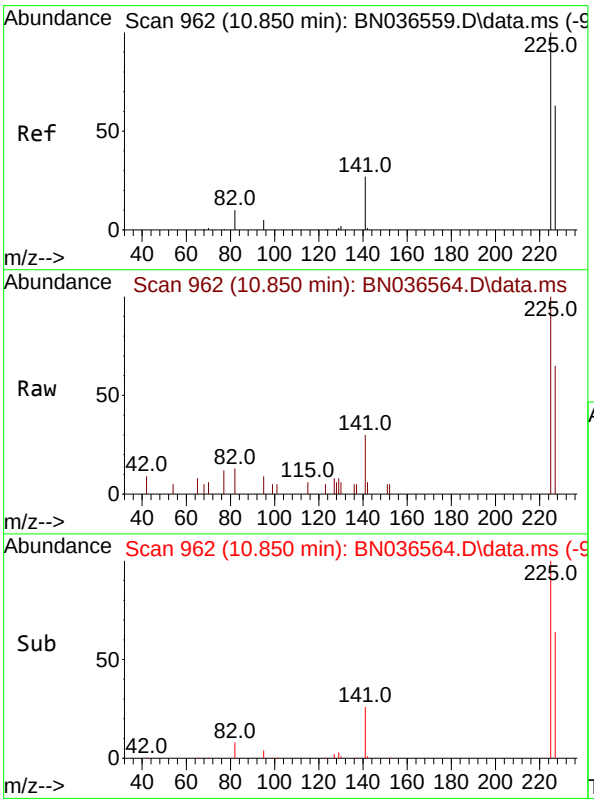
#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

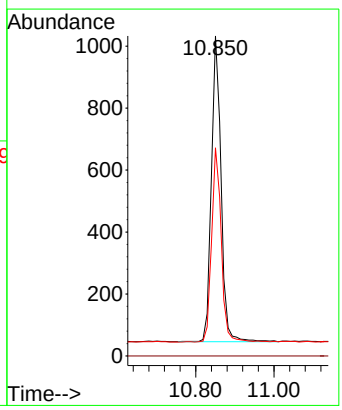


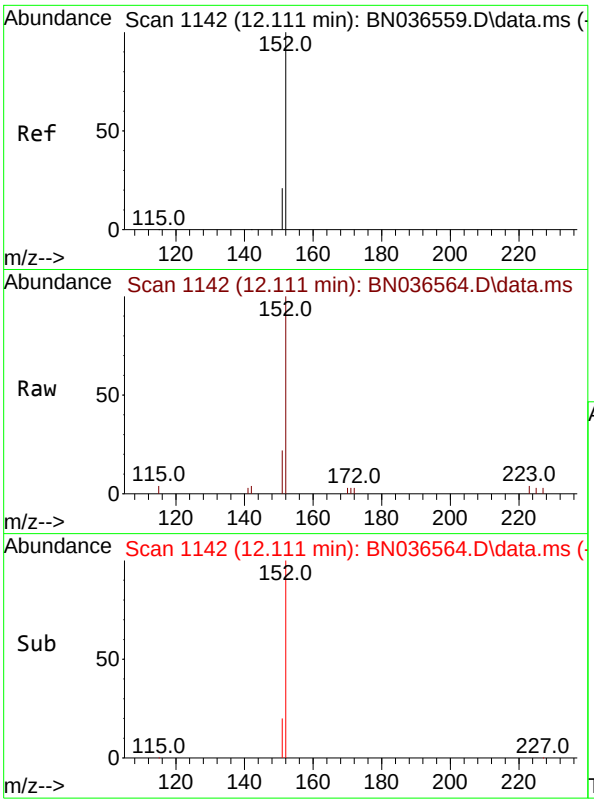


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



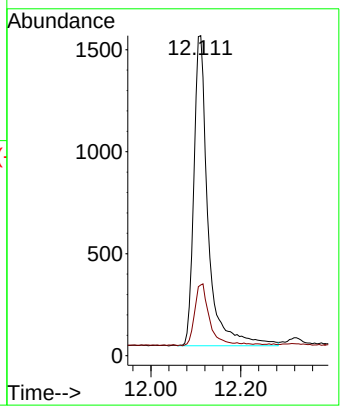


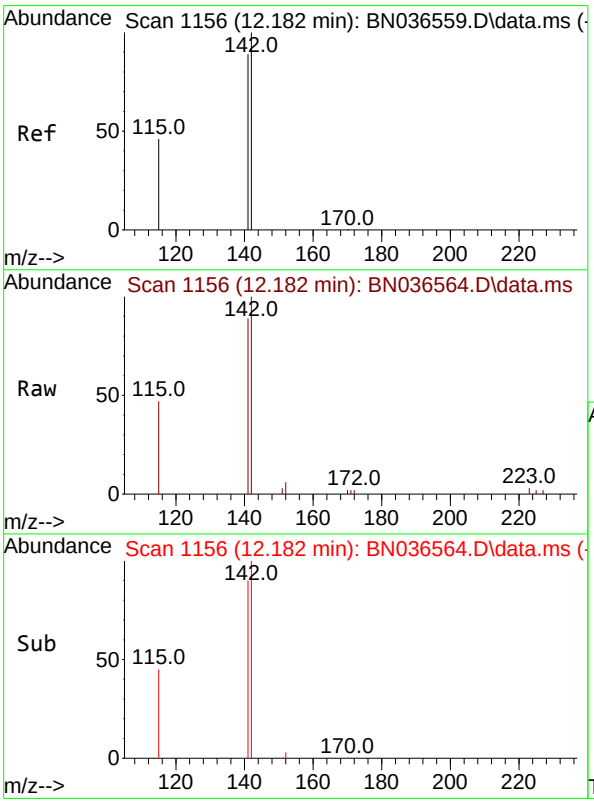
#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:152 Resp: 3345

Ion	Ratio	Lower	Upper
152	100		
151	20.2	17.0	25.6

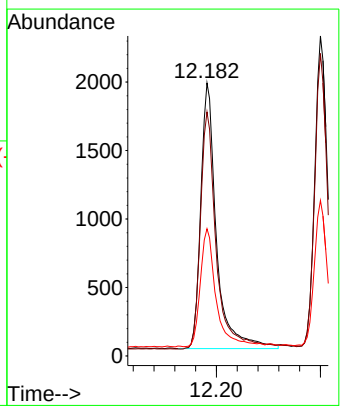


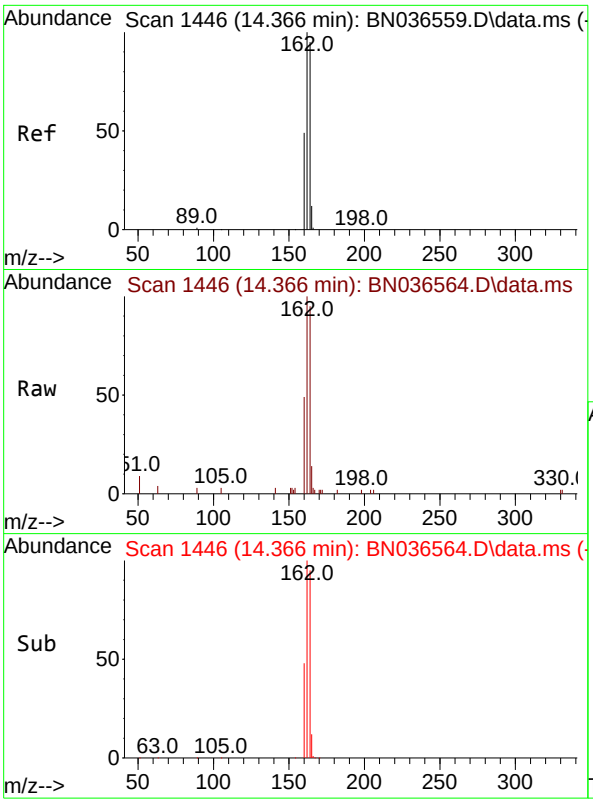


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



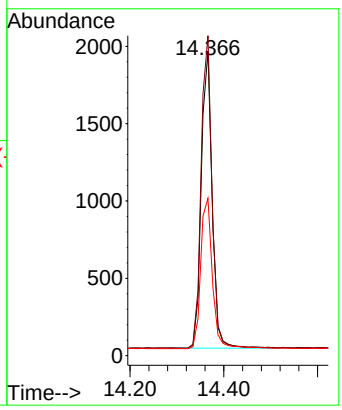


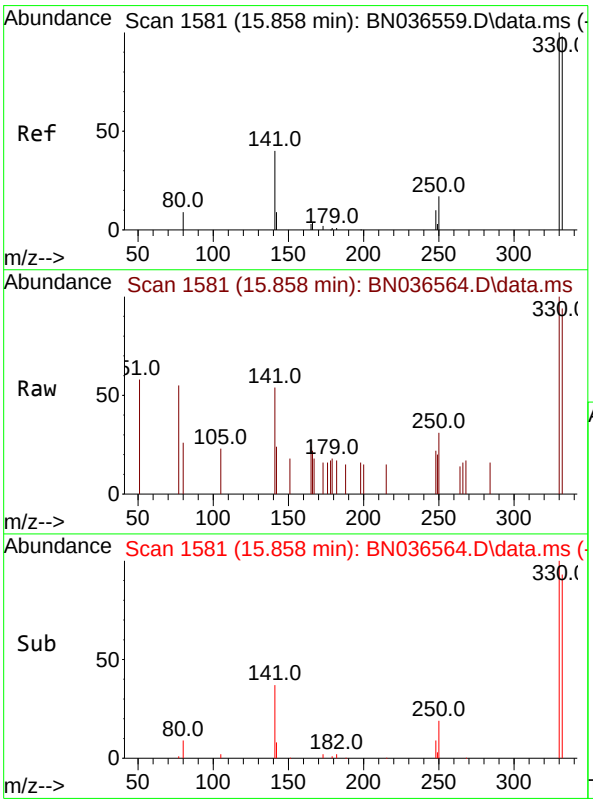
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

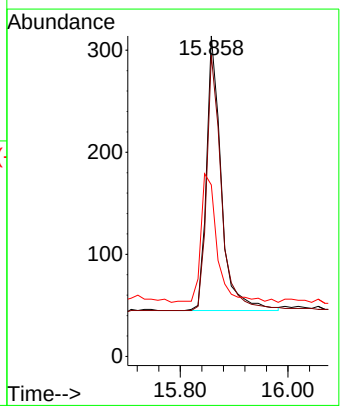


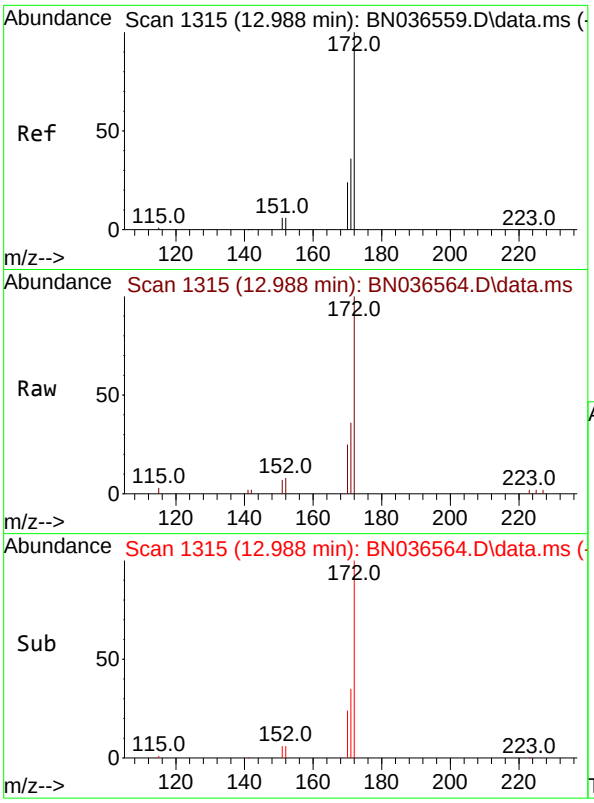


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



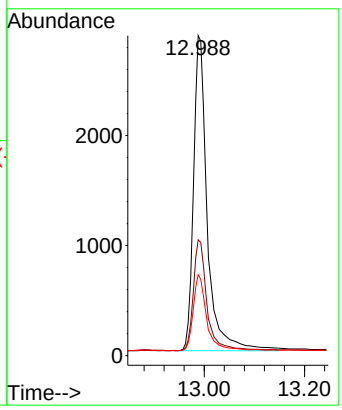


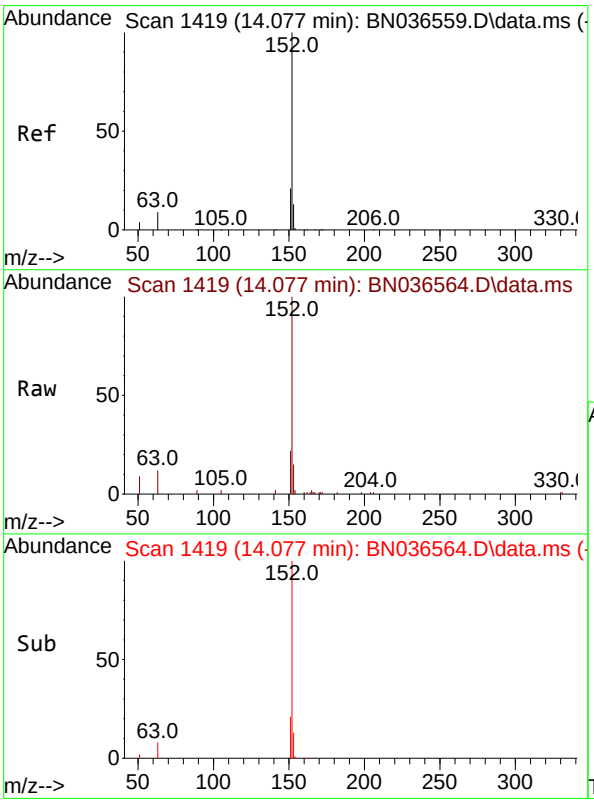
#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

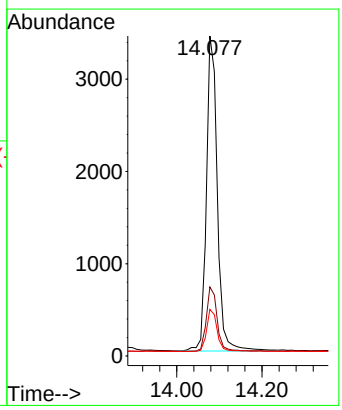


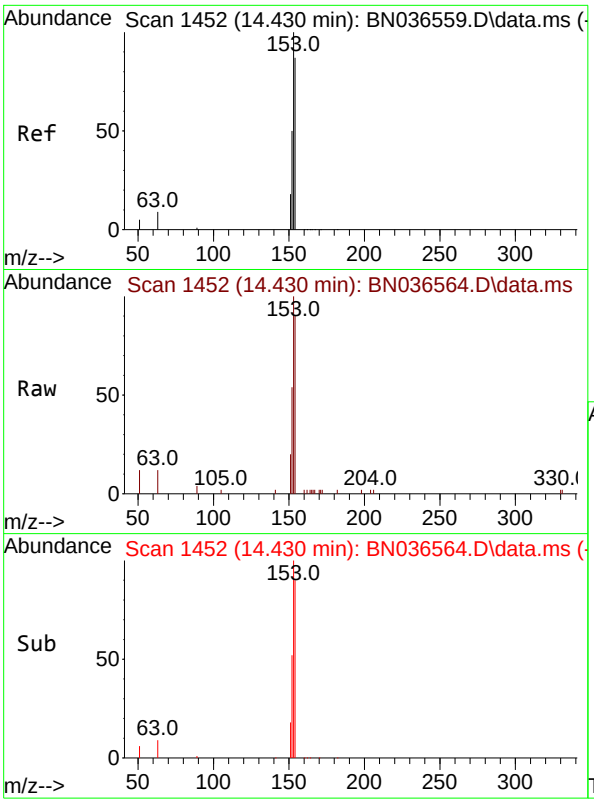


#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



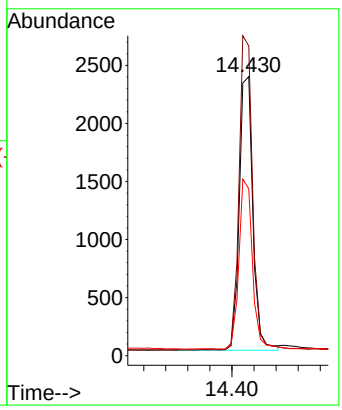


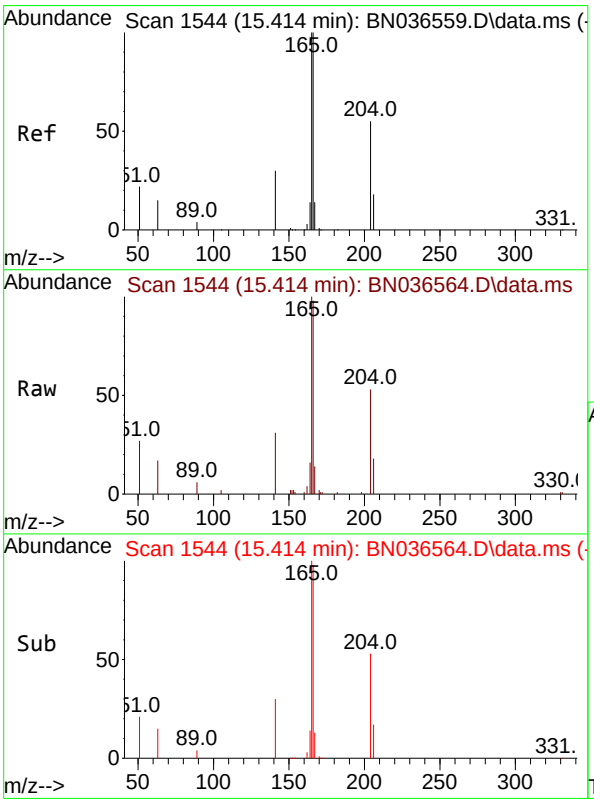
#17
Acenaphthene
Concen: 0.423 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

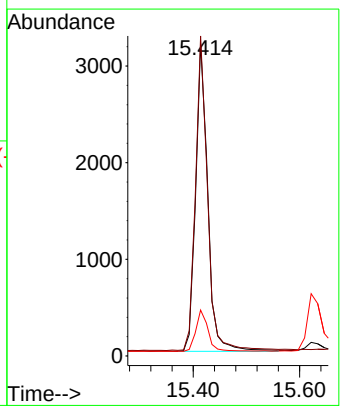


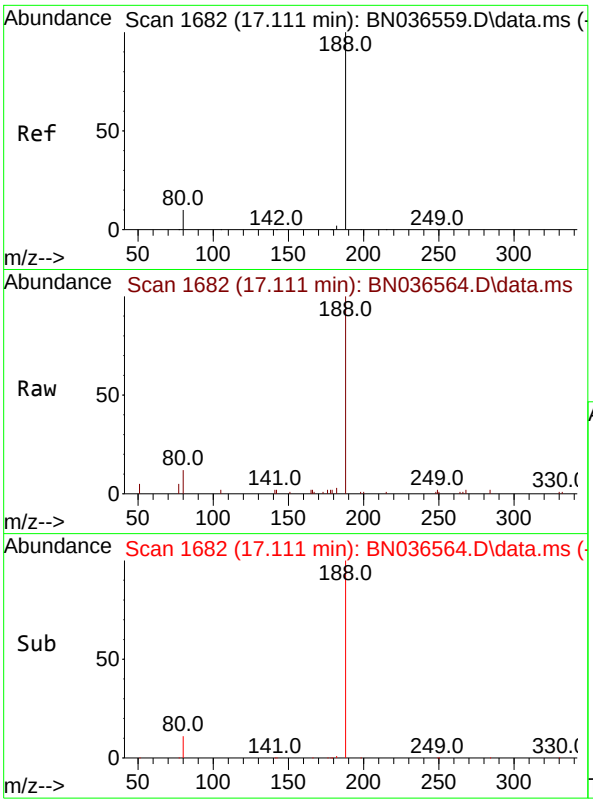


#18
Fluorene
Concen: 0.405 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



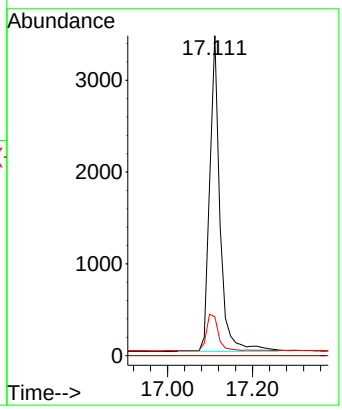


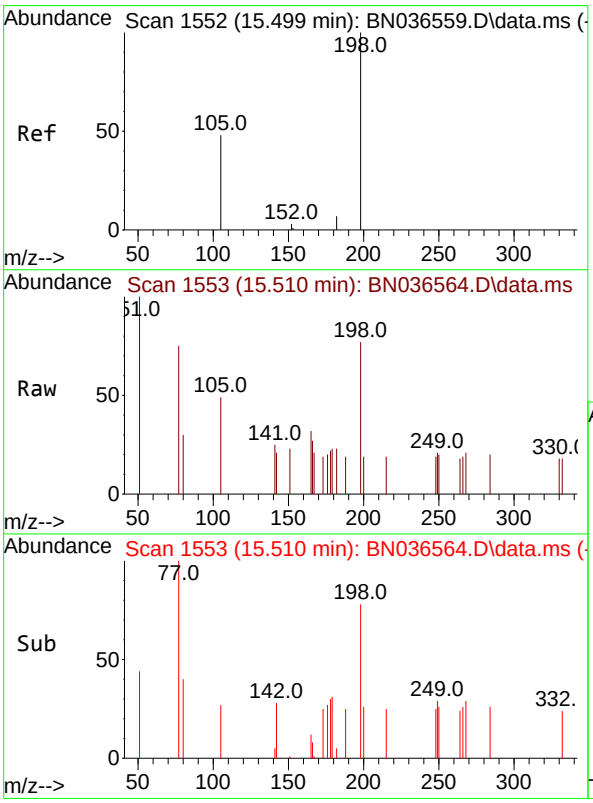
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

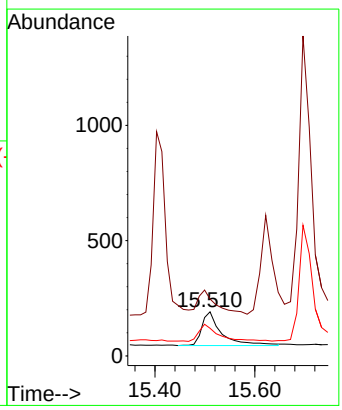


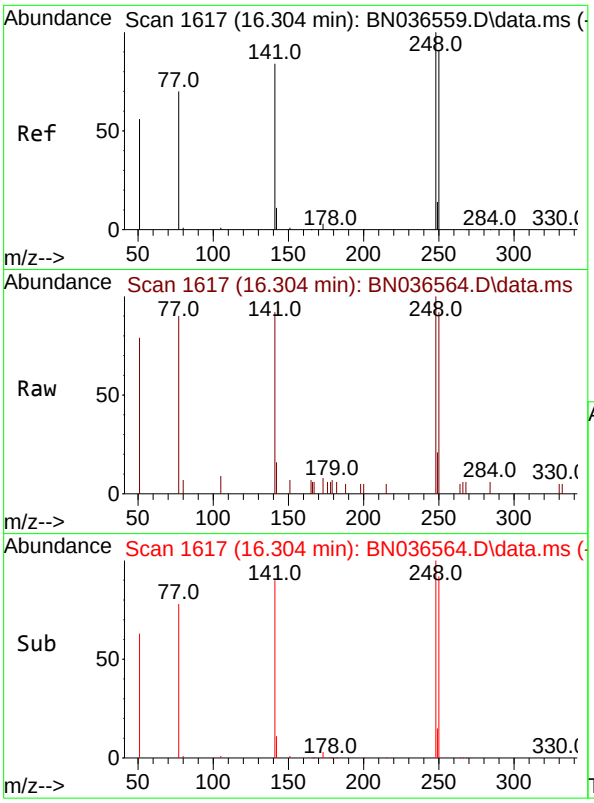


#20
4,6-Dinitro-2-methylphenol
Concen: 0.420 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



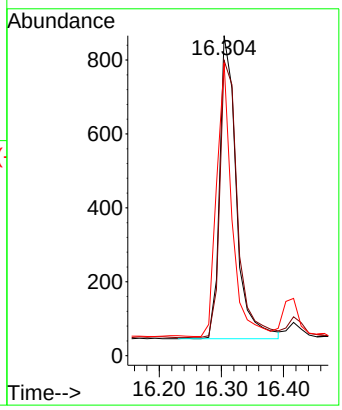


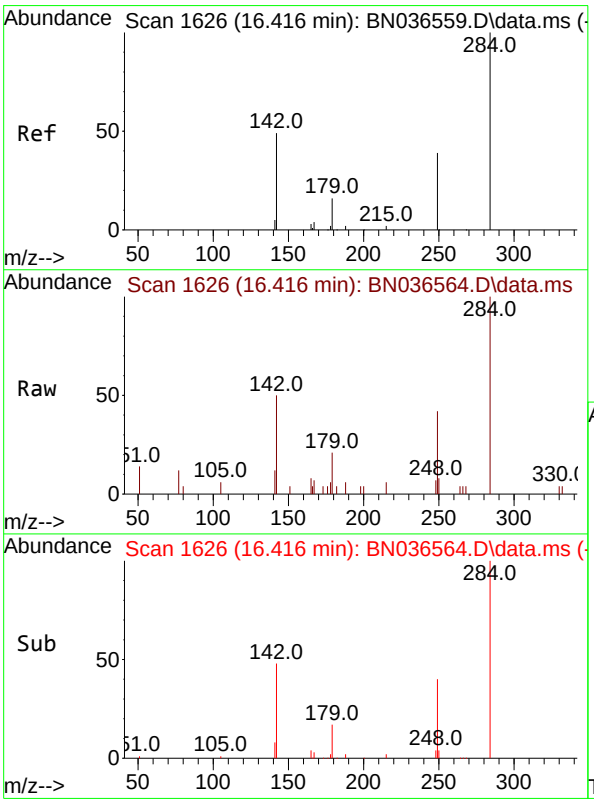
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

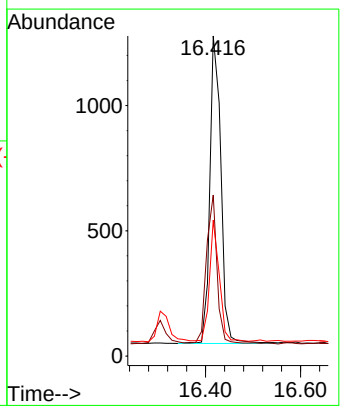


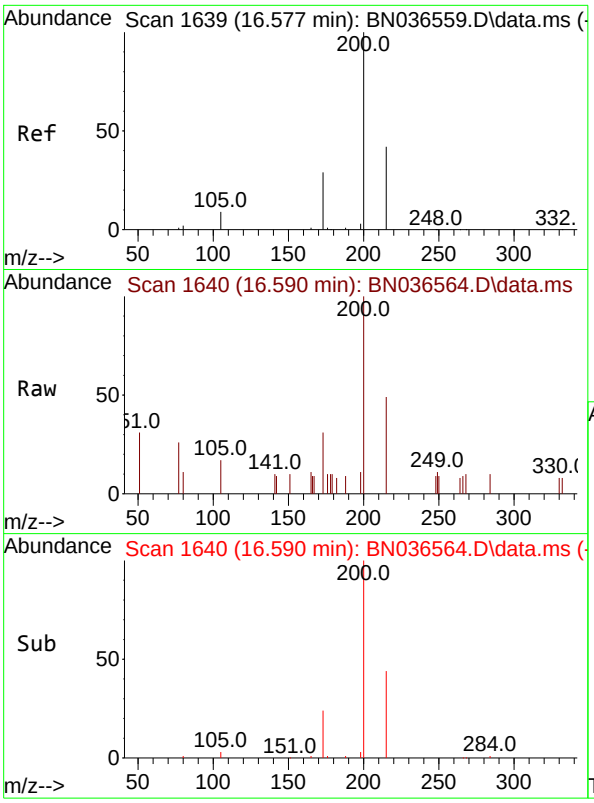


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



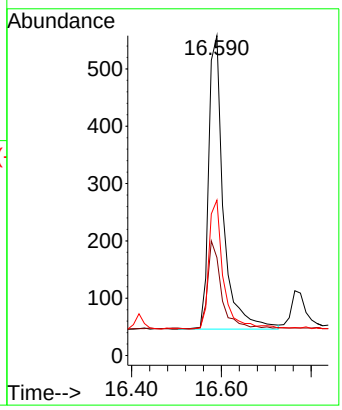


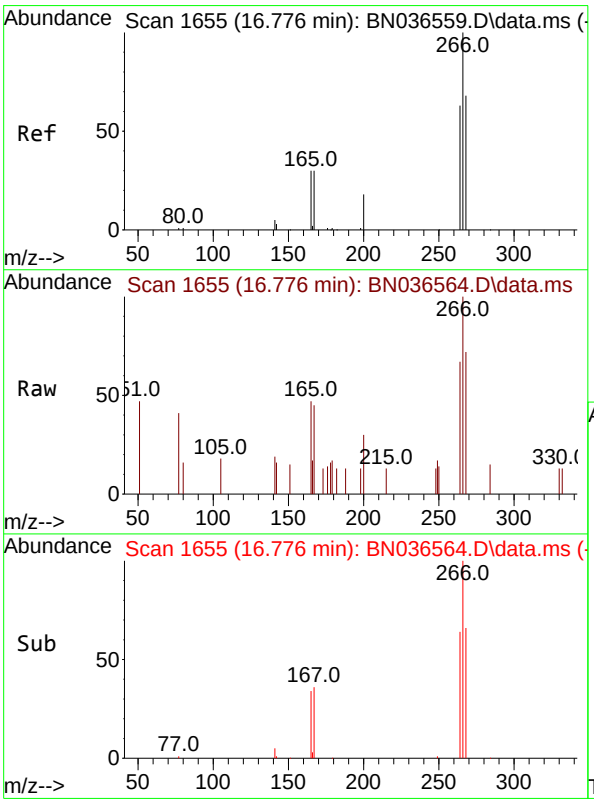
#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

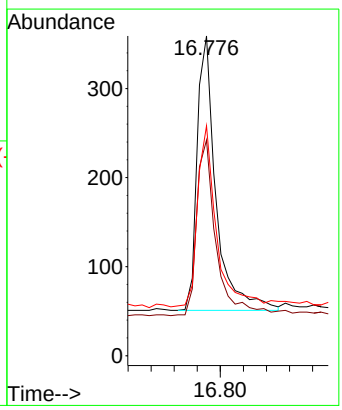


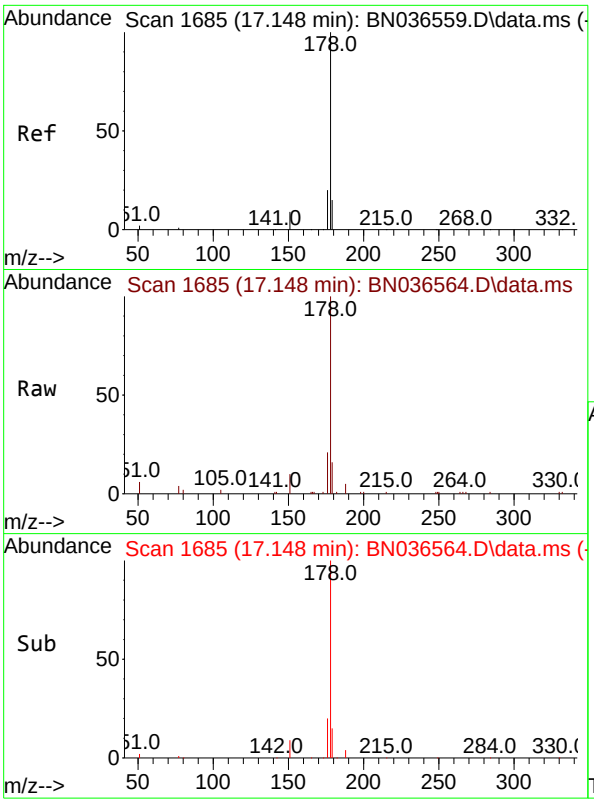


#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



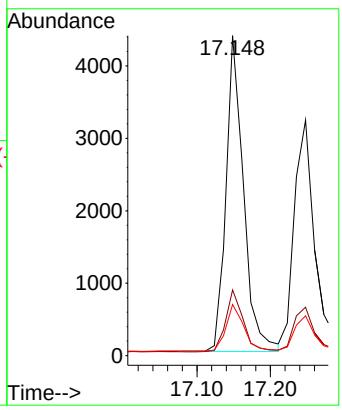


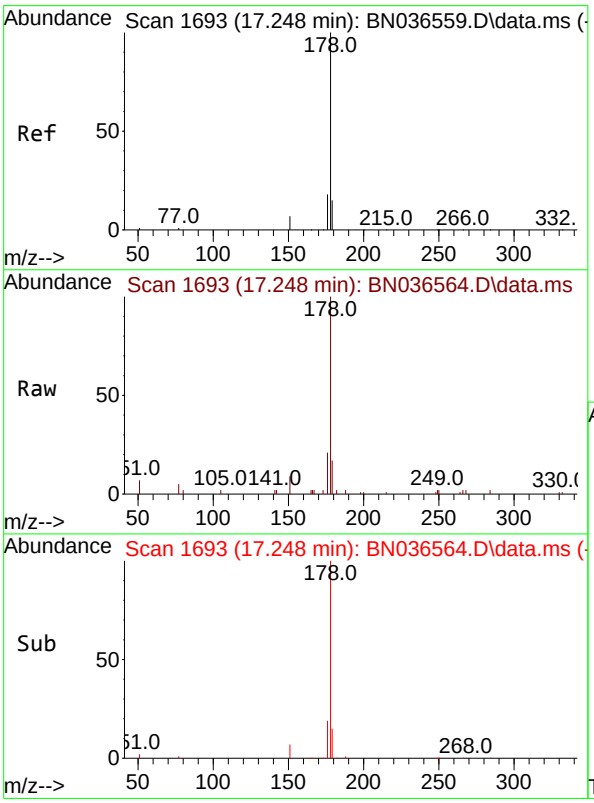
#25
Phenanthrene
Concen: 0.417 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

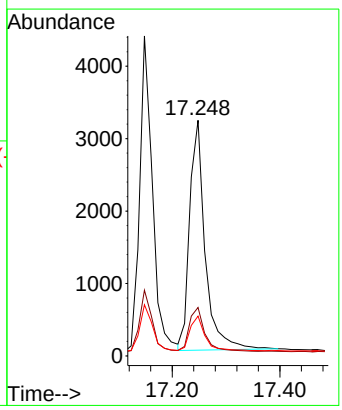


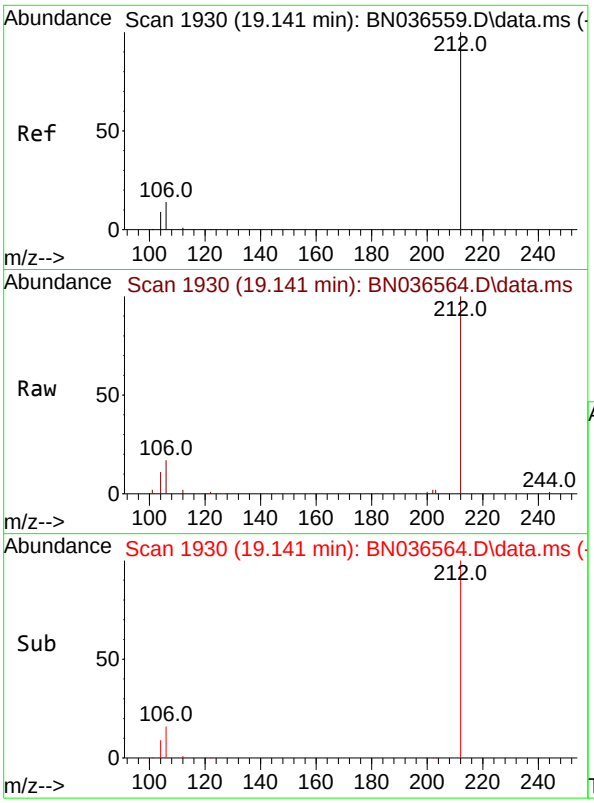


#26
Anthracene
Concen: 0.407 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



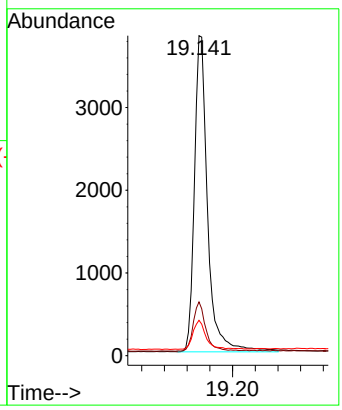


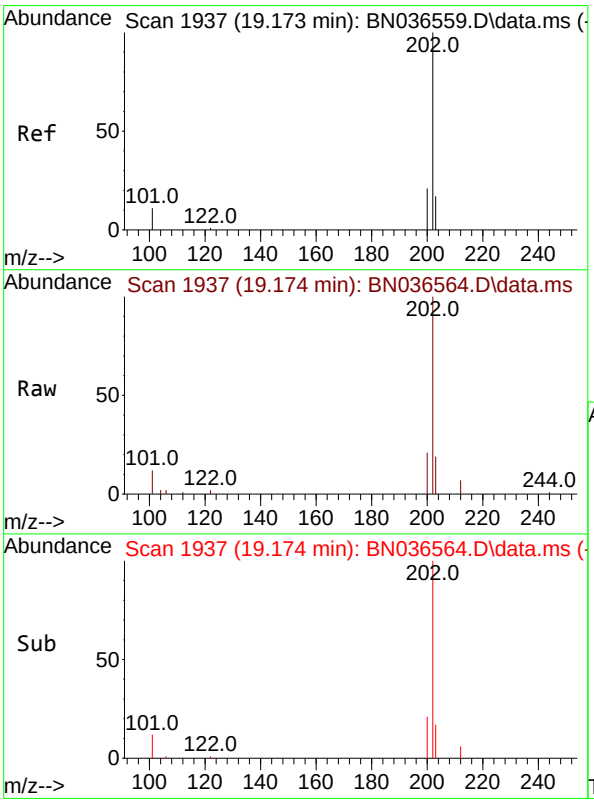
#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

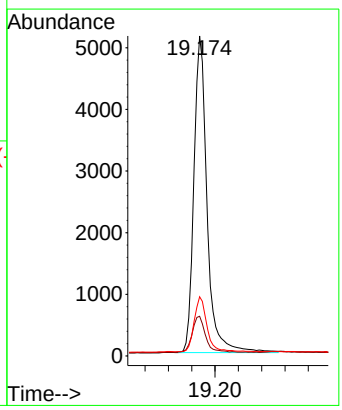


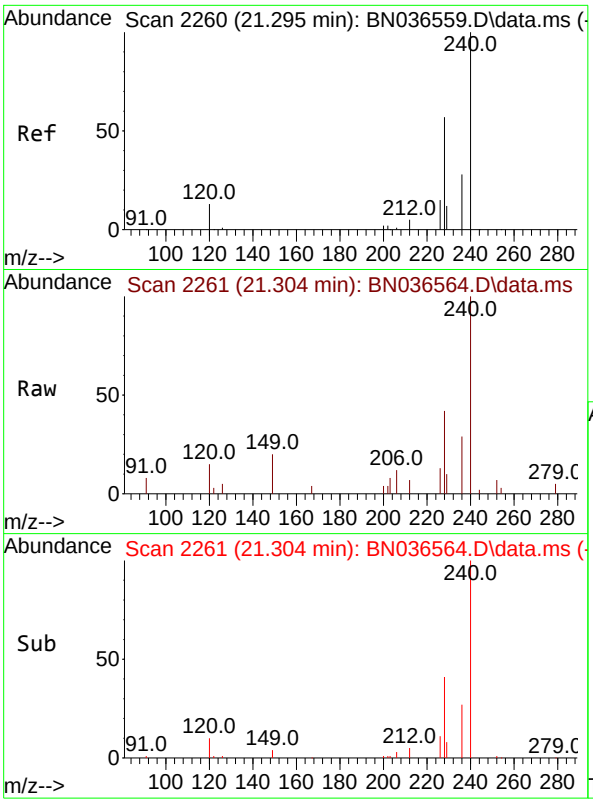


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



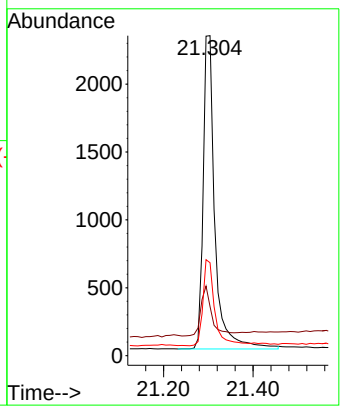


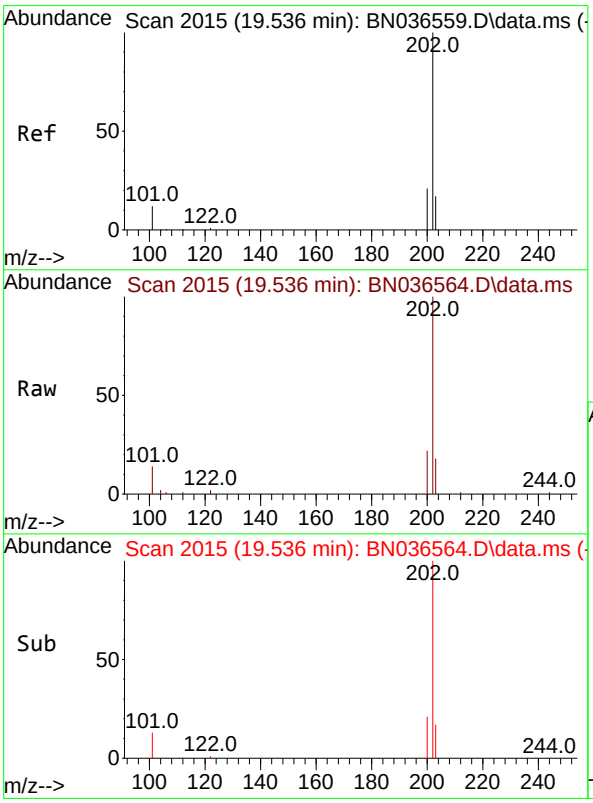
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

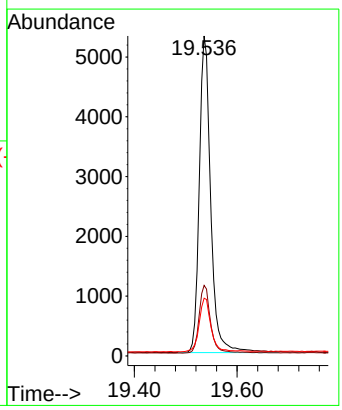


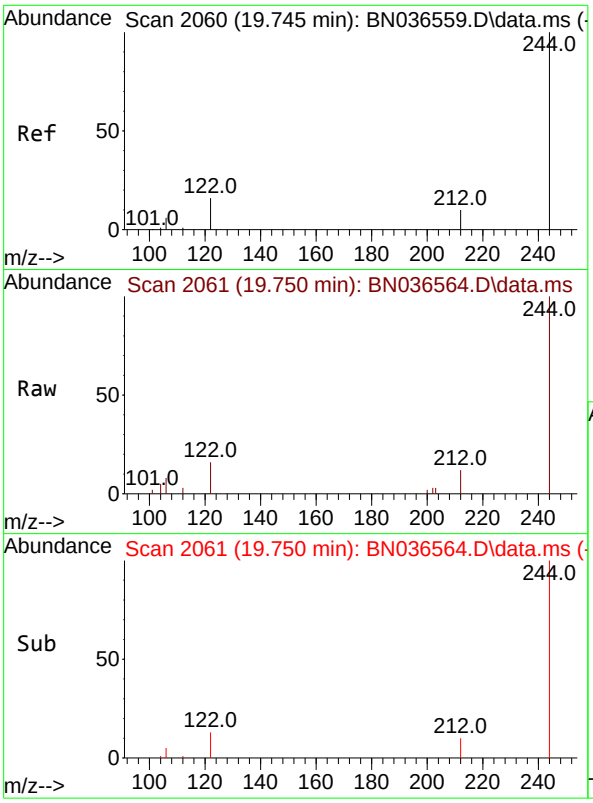


#30
Pyrene
Concen: 0.395 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



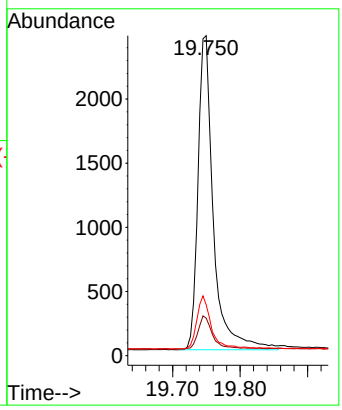


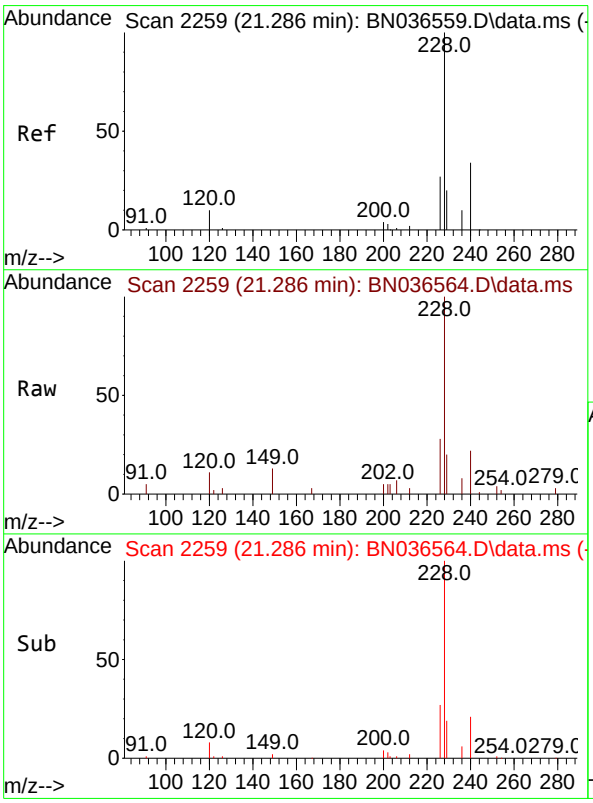
#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

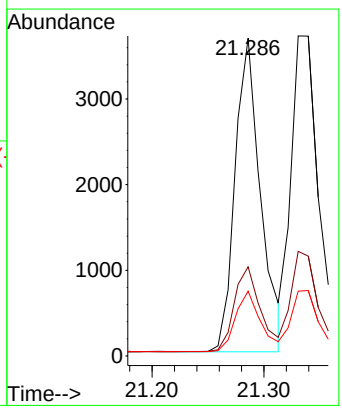


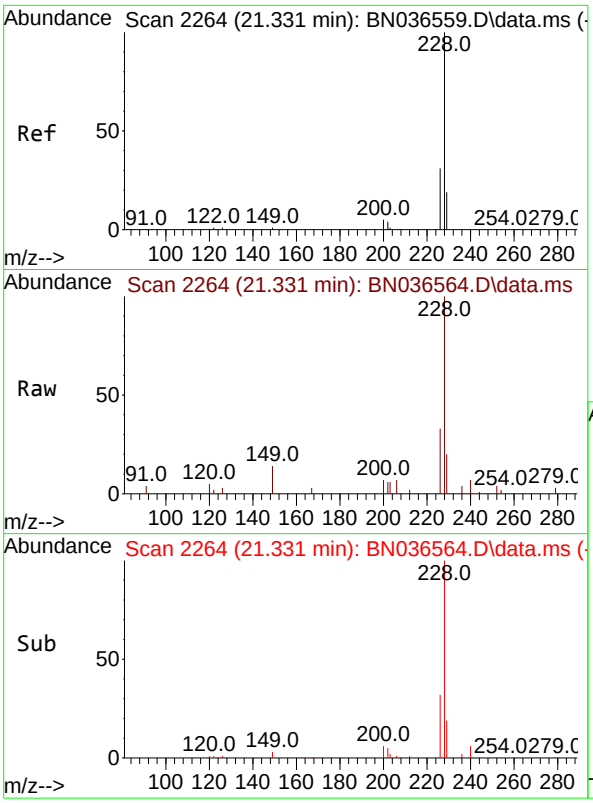


#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



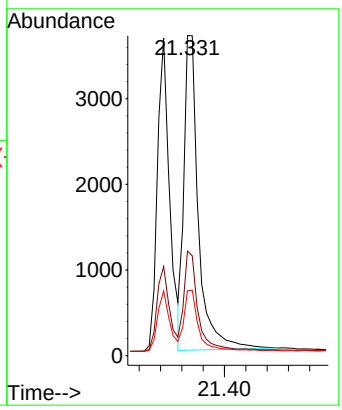


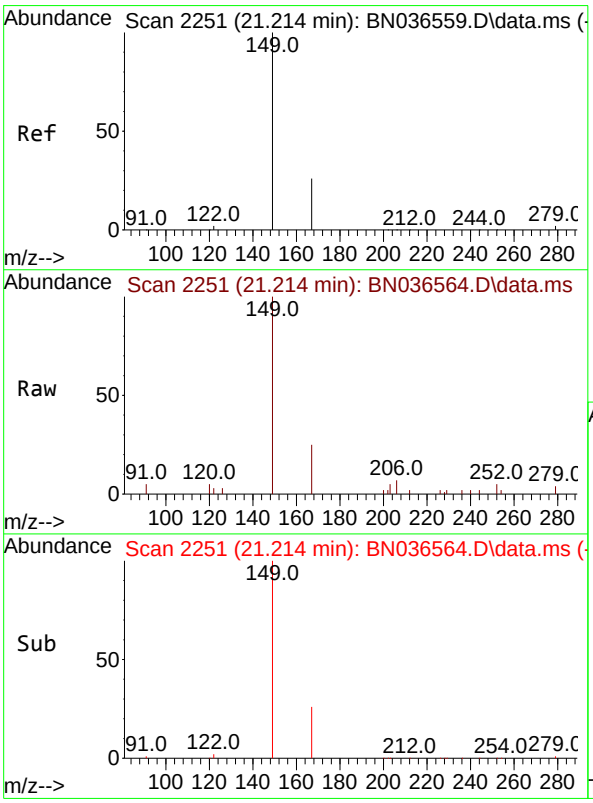
#33
Chrysene
Concen: 0.433 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

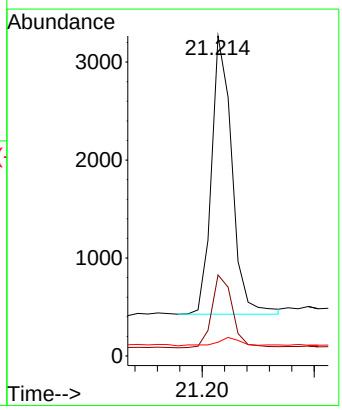


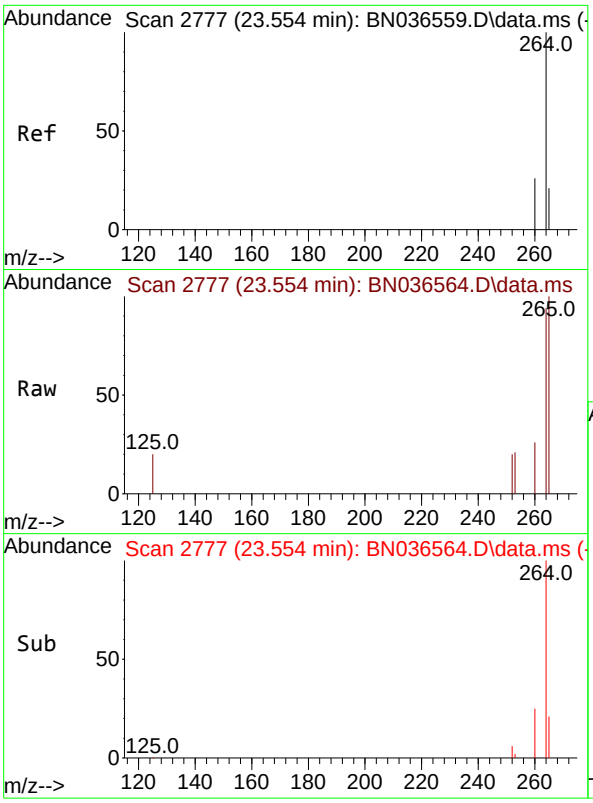


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



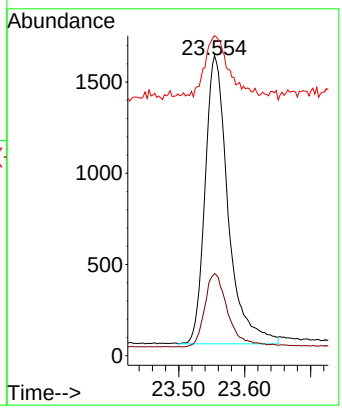


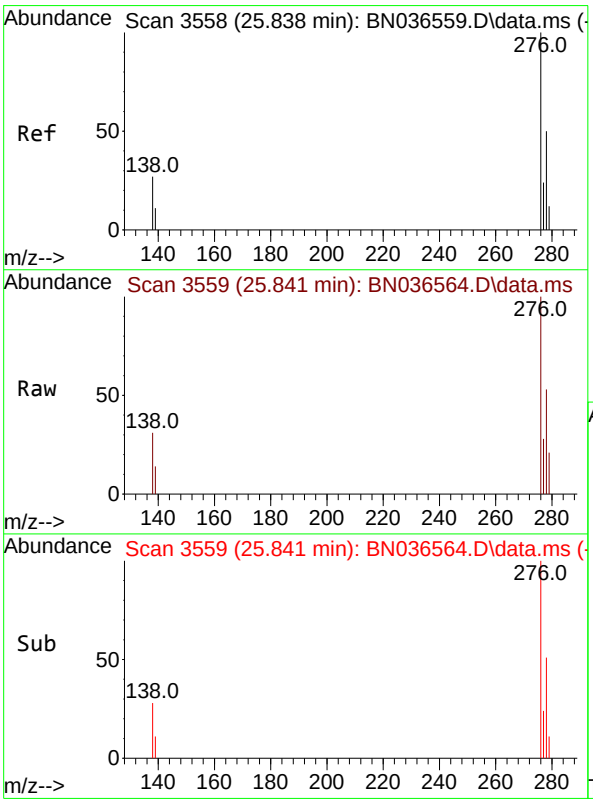
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

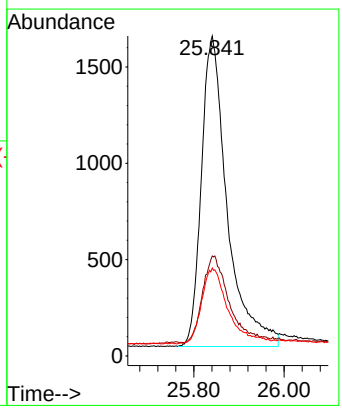


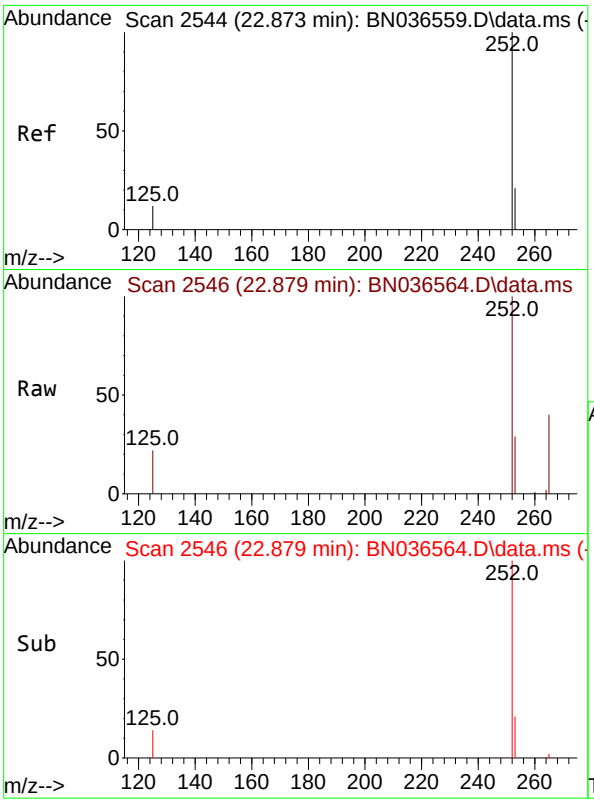


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.463 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



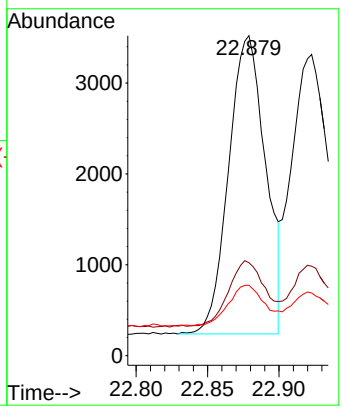


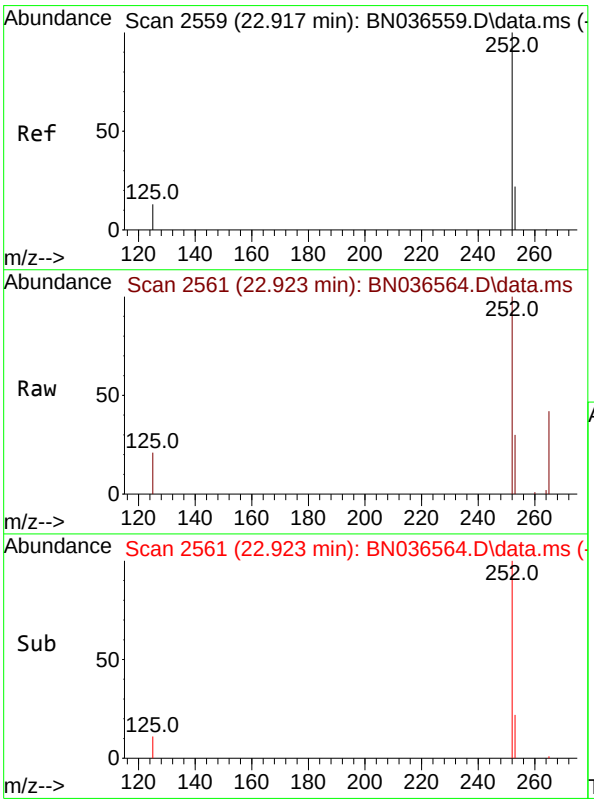
#37
Benzo(b)fluoranthene
Concen: 0.423 ng
RT: 22.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

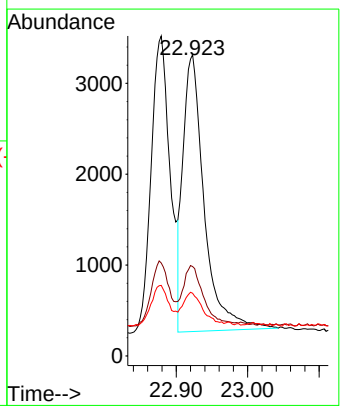


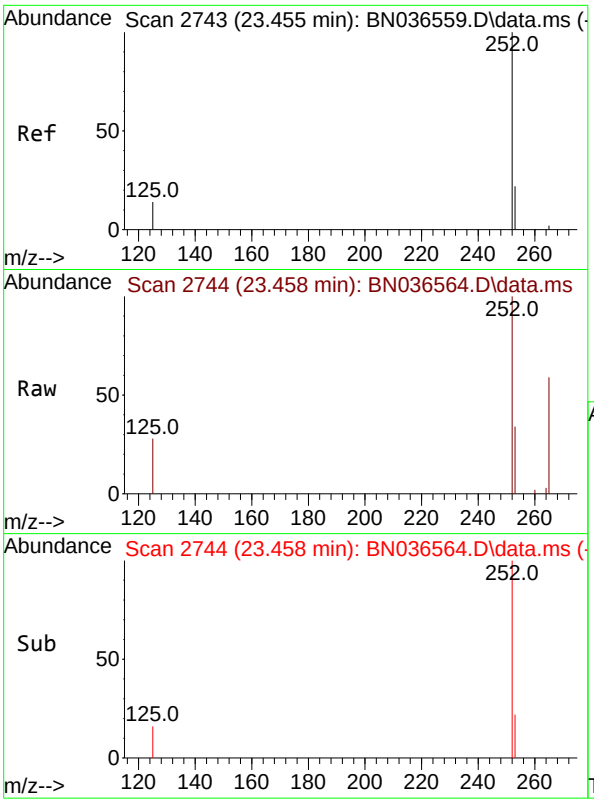


#38
Benzo(k)fluoranthene
Concen: 0.429 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



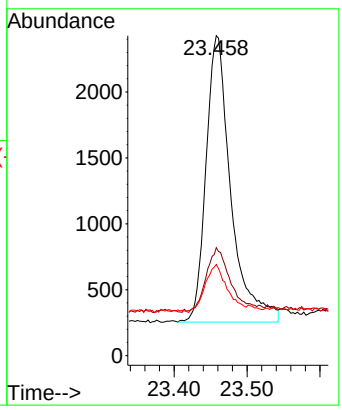


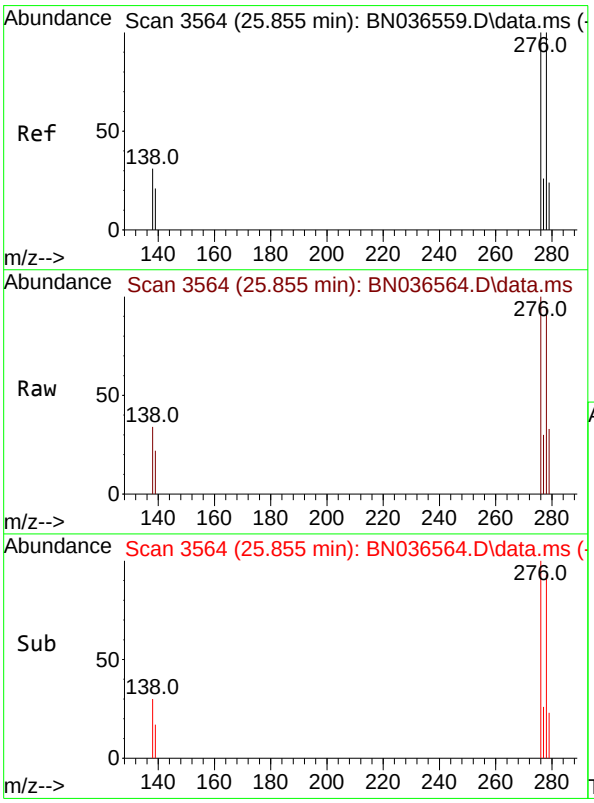
#39
Benzo(a)pyrene
Concen: 0.438 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

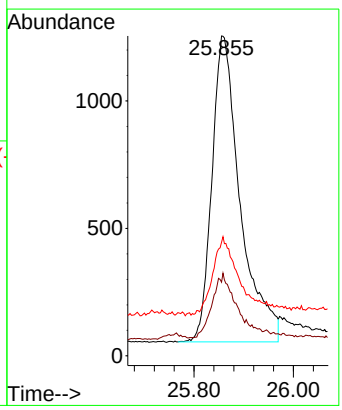


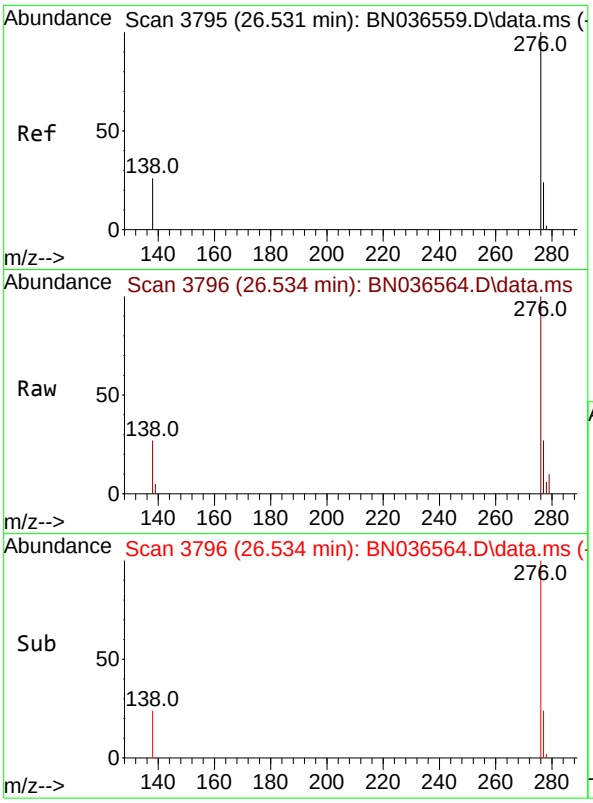


#40
Dibenzo(a,h)anthracene
Concen: 0.440 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



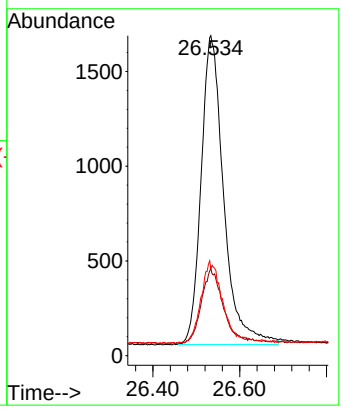


#41
Benzo(g,h,i)perylene
Concen: 0.477 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



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

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: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG No.: Q1608

Instrument ID: BNA_N Calibration Date/Time: 03/27/2025 09:49

Lab File ID: BN036729.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	0.536		-9.9	20.0
Fluoranthene-d10	1.025	1.110		8.3	20.0
2-Fluorophenol	0.932	0.879		-5.7	20.0
Phenol-d6	1.152	1.073		-6.9	20.0
Nitrobenzene-d5	0.435	0.371		-14.7	20.0
2-Fluorobiphenyl	2.327	1.998		-14.1	20.0
2,4,6-Tribromophenol	0.182	0.167		-8.2	20.0
Terphenyl-d14	0.958	0.820		-14.4	20.0
1,4-Dioxane	0.444	0.426		-4.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036729.D
Acq On : 27 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 27 10:52:22 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

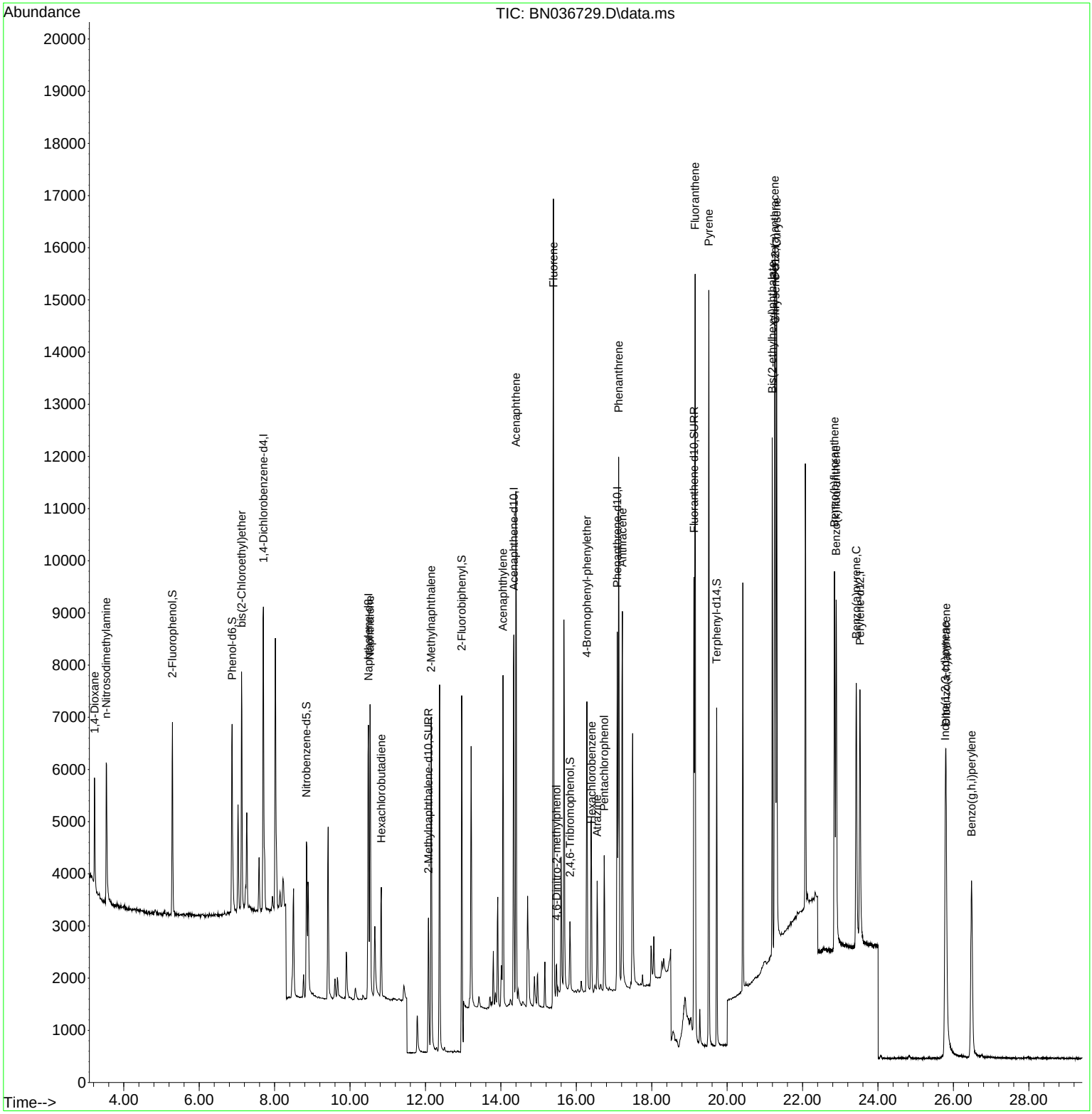
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	2892	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	7150	0.400	ng		#-0.02
13) Acenaphthene-d10	14.345	164	4255	0.400	ng		-0.02
19) Phenanthrene-d10	17.086	188	8860	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	7759	0.400	ng		#-0.02
35) Perylene-d12	23.522	264	6723	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	2542	0.377	ng		-0.02
5) Phenol-d6	6.872	99	3104	0.373	ng		-0.03
8) Nitrobenzene-d5	8.843	82	2653	0.341	ng		-0.03
11) 2-Methylnaphthalene-d10	12.080	152	3831	0.360	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	711	0.368	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	8502	0.343	ng		-0.03
27) Fluoranthene-d10	19.122	212	9834	0.433	ng		-0.02
31) Terphenyl-d14	19.722	244	6361	0.342	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	1232	0.384	ng		99
3) n-Nitrosodimethylamine	3.535	42	2246	0.346	ng		91
6) bis(2-Chloroethyl)ether	7.125	93	3157	0.367	ng		100
9) Naphthalene	10.530	128	7512	0.357	ng		99
10) Hexachlorobutadiene	10.829	225	1698	0.343	ng	#	98
12) 2-Methylnaphthalene	12.151	142	4804	0.359	ng		97
16) Acenaphthylene	14.056	152	6856	0.341	ng		99
17) Acenaphthene	14.398	154	4636	0.353	ng		100
18) Fluorene	15.392	166	6299	0.354	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	636	0.427	ng	#	74
21) 4-Bromophenyl-phenylether	16.280	248	1998	0.360	ng		99
22) Hexachlorobenzene	16.404	284	2370	0.354	ng		98
23) Atrazine	16.553	200	1715	0.385	ng		98
24) Pentachlorophenol	16.739	266	1259	0.412	ng		98
25) Phenanthrene	17.124	178	10196	0.384	ng		99
26) Anthracene	17.223	178	8794	0.367	ng		99
28) Fluoranthene	19.150	202	12984	0.435	ng		99
30) Pyrene	19.513	202	12887	0.340	ng		100
32) Benzo(a)anthracene	21.259	228	9768	0.362	ng		98
33) Chrysene	21.313	228	10899	0.370	ng		100
34) Bis(2-ethylhexyl)phtha...	21.196	149	8379	0.436	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.785	276	8360	0.345	ng		99
37) Benzo(b)fluoranthene	22.847	252	9234	0.377	ng		96
38) Benzo(k)fluoranthene	22.891	252	8958	0.349	ng		94
39) Benzo(a)pyrene	23.426	252	7680	0.373	ng		93
40) Dibenzo(a,h)anthracene	25.806	278	6473	0.343	ng		93
41) Benzo(g,h,i)perylene	26.481	276	7201	0.333	ng		98

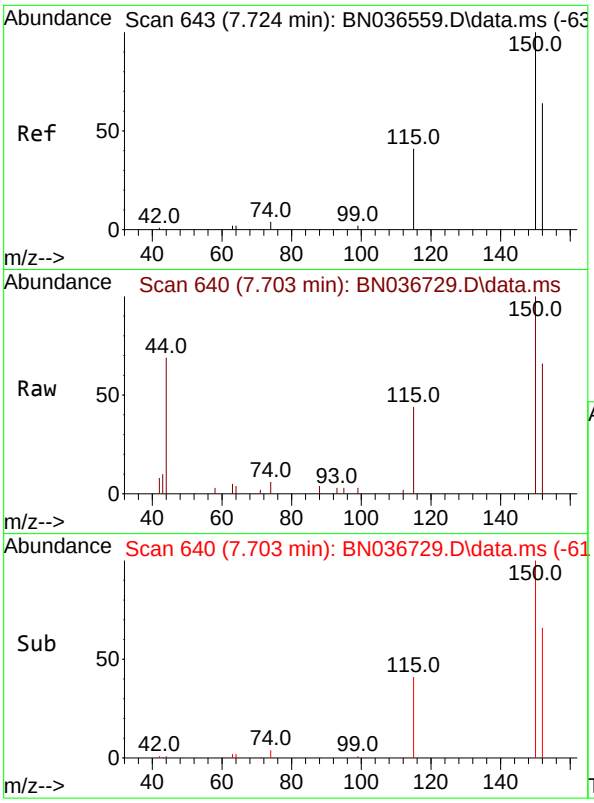
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036729.D
Acq On : 27 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 27 10:52:22 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



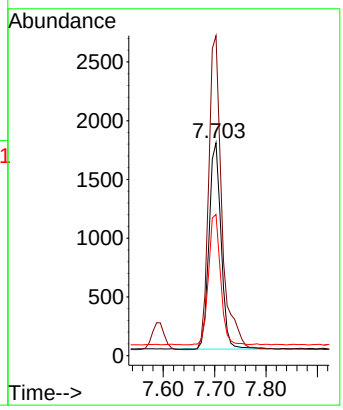


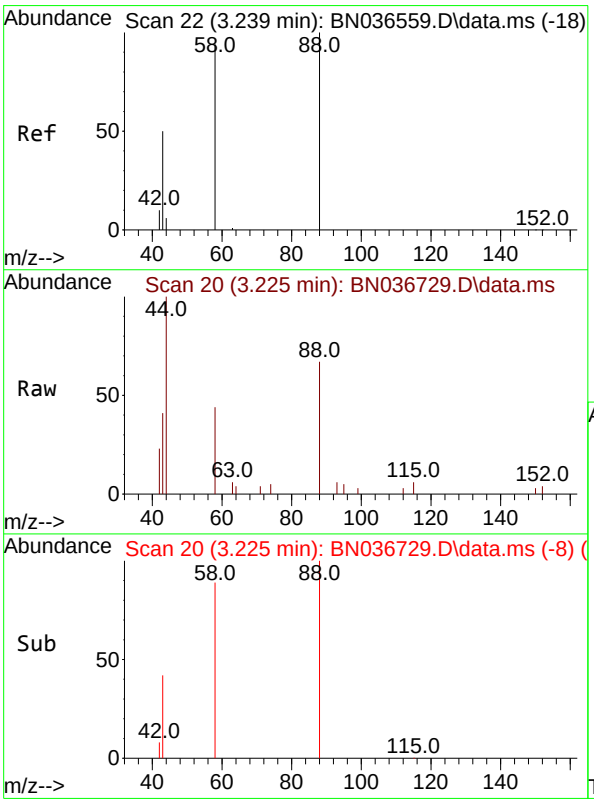
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2892

Ion	Ratio	Lower	Upper
152	100		
150	150.4	123.7	185.5
115	66.4	54.3	81.5

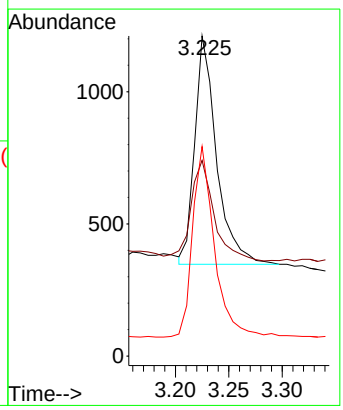


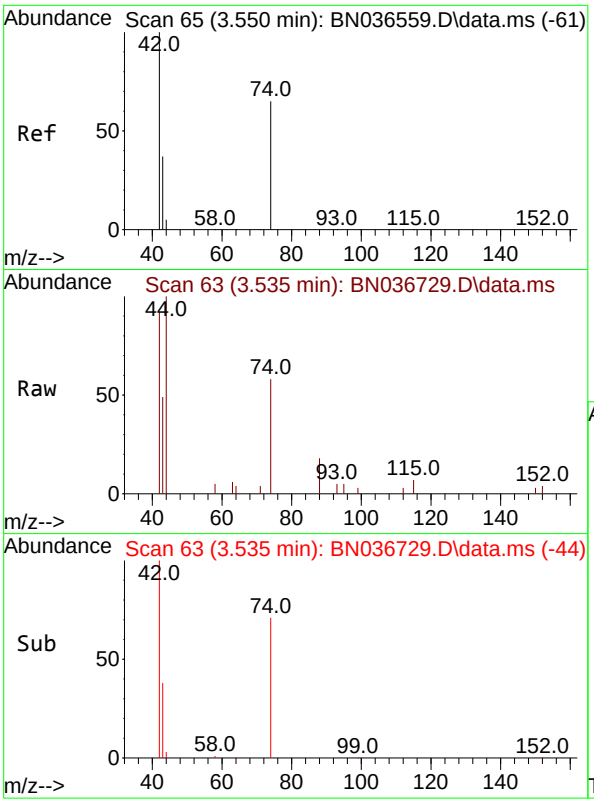


#2
1,4-Dioxane
Concen: 0.384 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion: 88 Resp: 1232

Ion	Ratio	Lower	Upper
88	100		
43	47.5	37.8	56.8
58	83.5	67.4	101.2



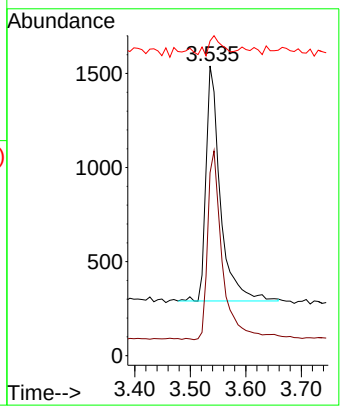


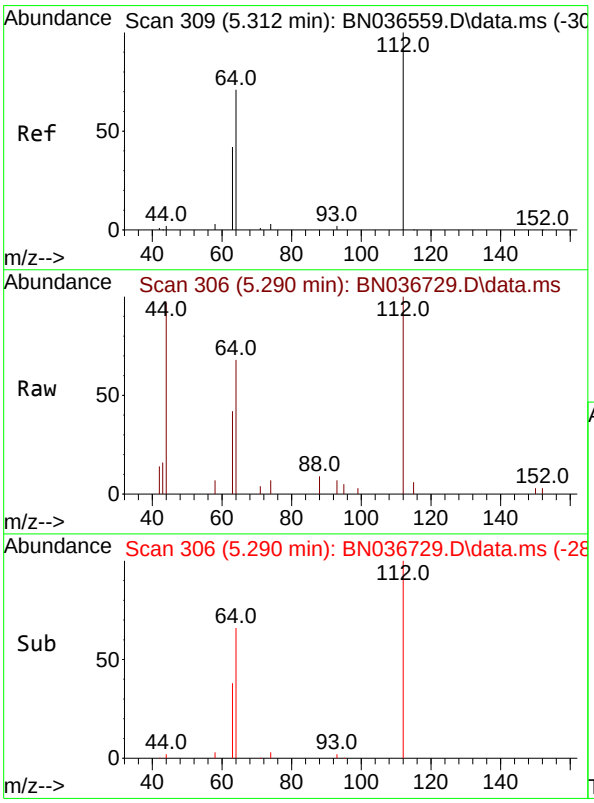
#3
n-Nitrosodimethylamine
Concen: 0.346 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2246

Ion	Ratio	Lower	Upper
42	100		
74	83.6	60.6	90.8
44	7.1	6.3	9.5

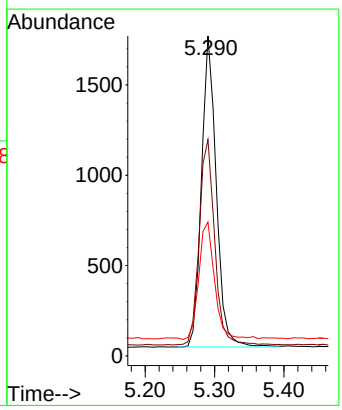


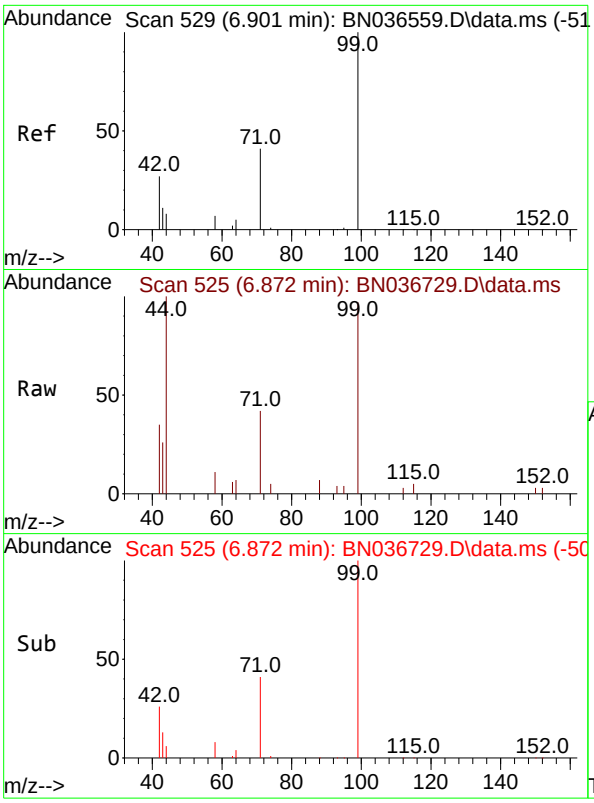


#4
2-Fluorophenol
Concen: 0.377 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:112 Resp: 2542

Ion	Ratio	Lower	Upper
112	100		
64	69.3	53.1	79.7
63	41.4	31.8	47.8



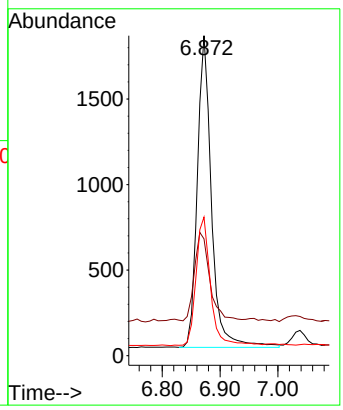


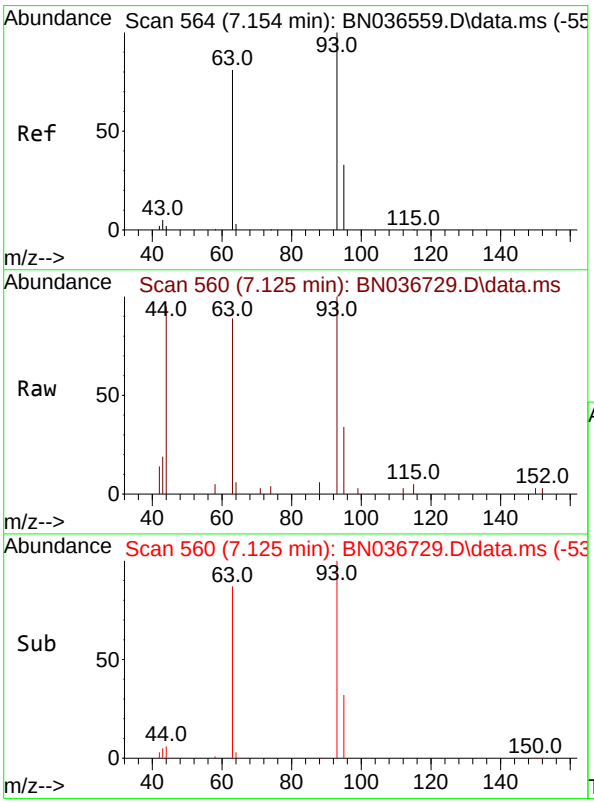
#5
Phenol-d6
Concen: 0.373 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 3104

Ion	Ratio	Lower	Upper
99	100		
42	30.5	26.5	39.7
71	42.2	34.1	51.1

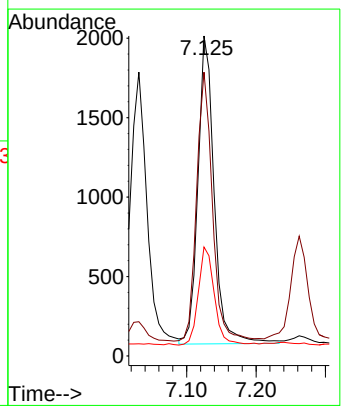


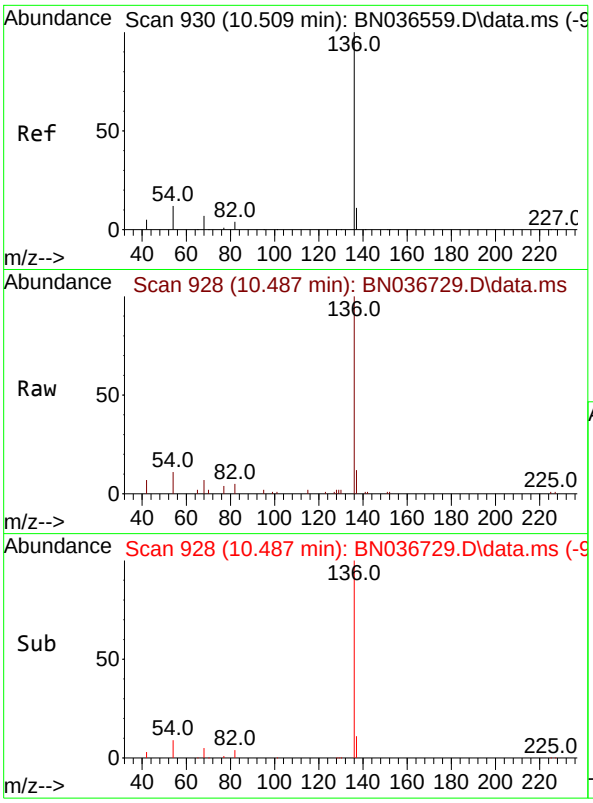


#6
bis(2-Chloroethyl)ether
Concen: 0.367 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion: 93 Resp: 3157

Ion	Ratio	Lower	Upper
93	100		
63	84.6	67.7	101.5
95	31.4	25.6	38.4



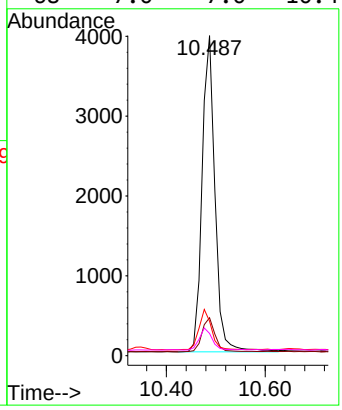


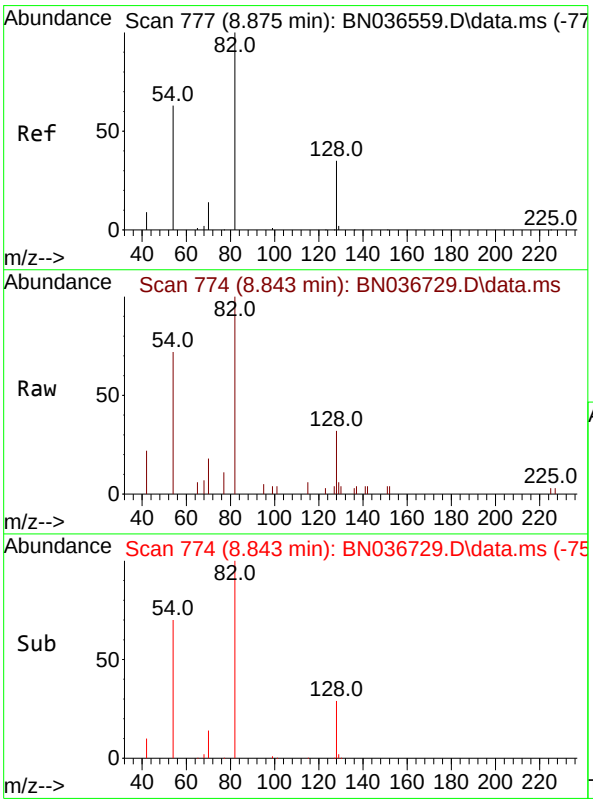
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 7150

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	10.8	11.5	17.3#
68	7.0	7.0	10.4

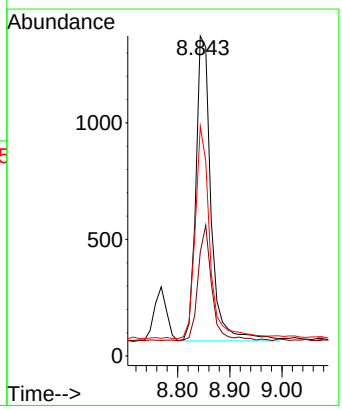


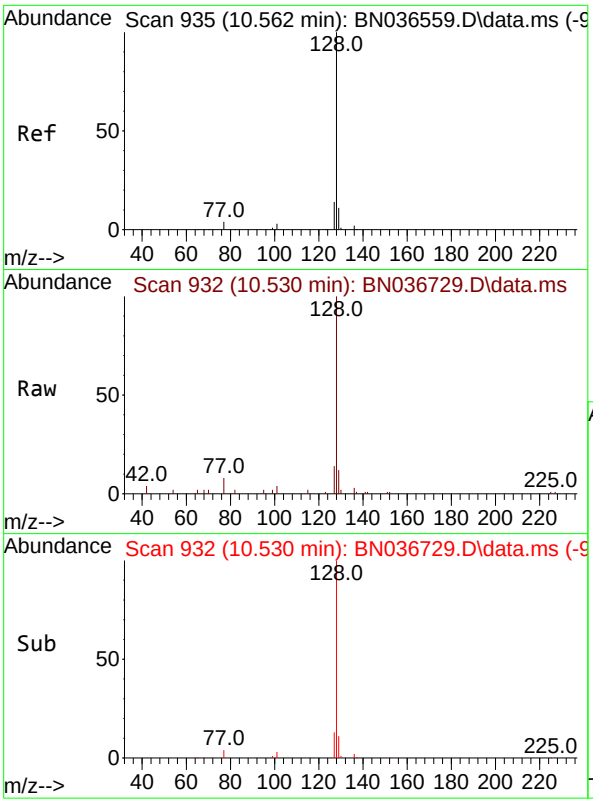


#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion: 82 Resp: 2653

Ion	Ratio	Lower	Upper
82	100		
128	32.5	30.6	45.8
54	71.8	52.2	78.4



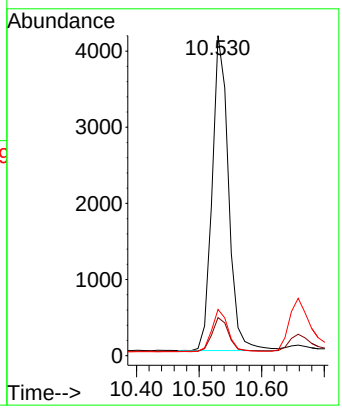


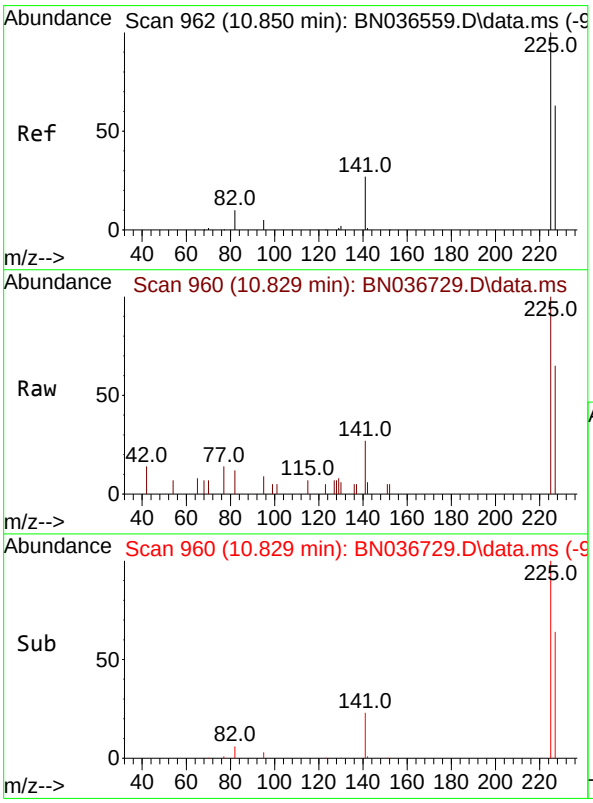
#9
Naphthalene
Concen: 0.357 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 7512

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.4	11.8	17.8

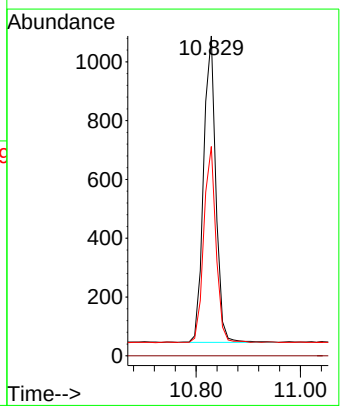


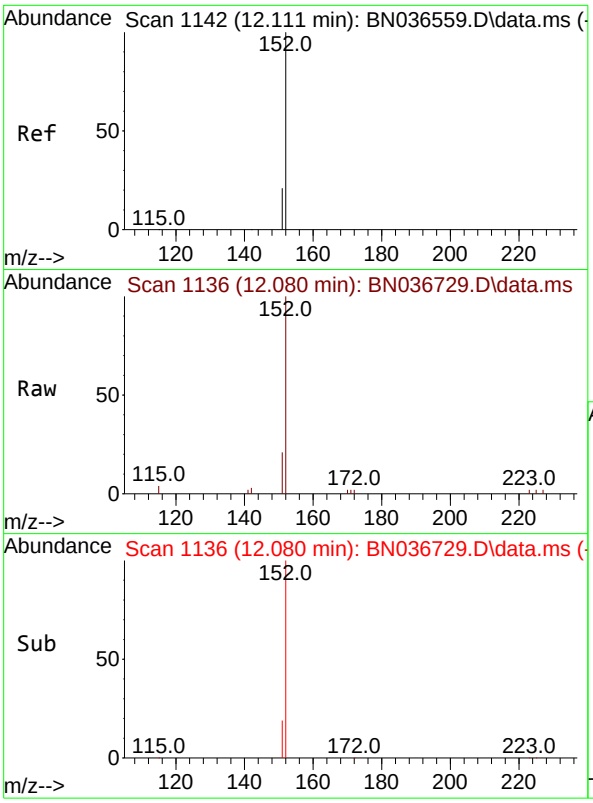


#10
Hexachlorobutadiene
Concen: 0.343 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:225 Resp: 1698

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



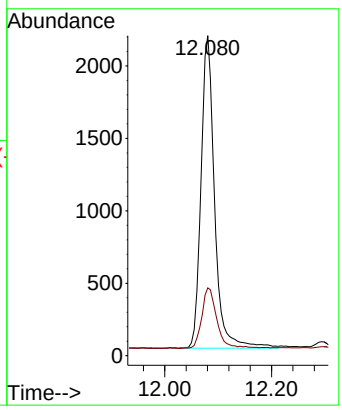


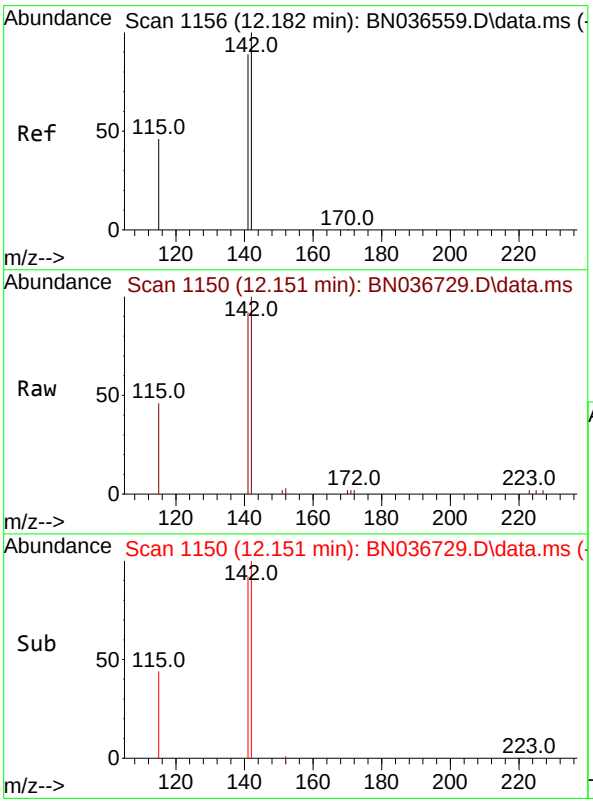
#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3831

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

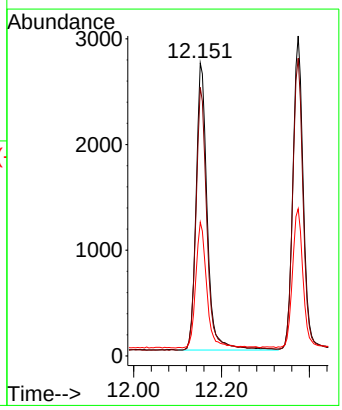


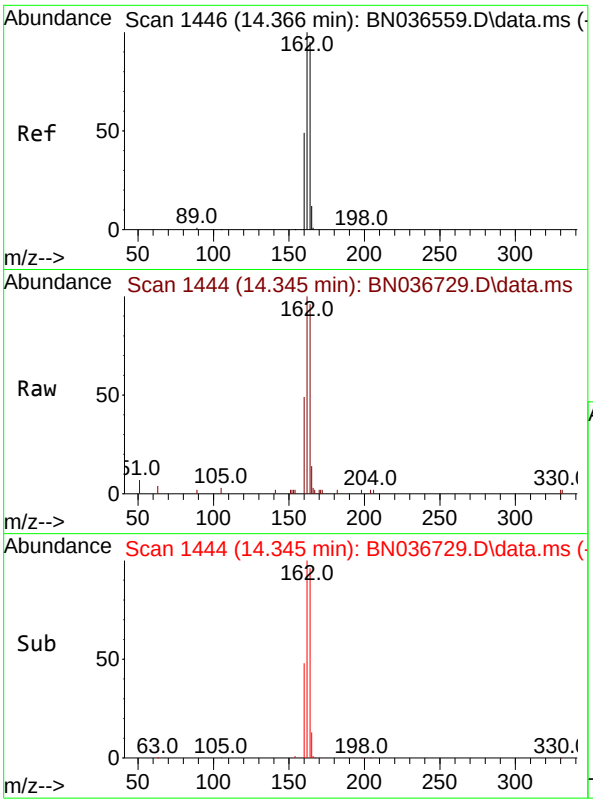


#12
2-Methylnaphthalene
Concen: 0.359 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:142 Resp: 4804

Ion	Ratio	Lower	Upper
142	100		
141	91.7	71.7	107.5
115	45.7	38.3	57.5



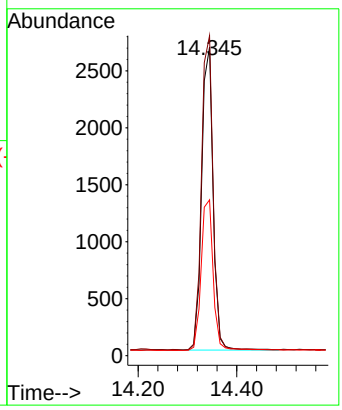


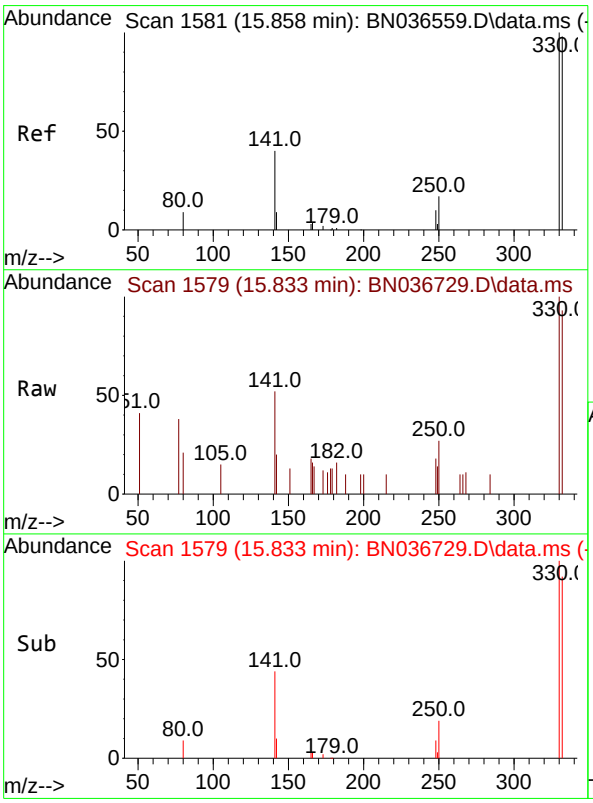
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 4255

Ion	Ratio	Lower	Upper
164	100		
162	103.7	84.2	126.2
160	50.5	42.2	63.2

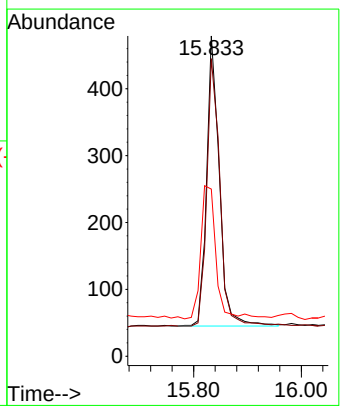


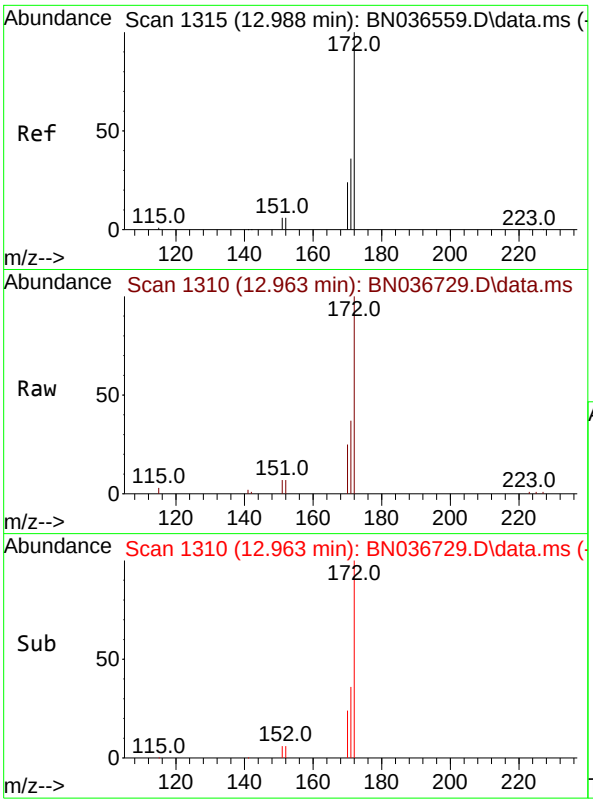


#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:330 Resp: 711

Ion	Ratio	Lower	Upper
330	100		
332	95.2	75.2	112.8
141	55.1	43.4	65.2



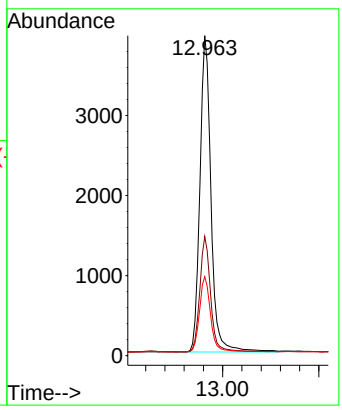


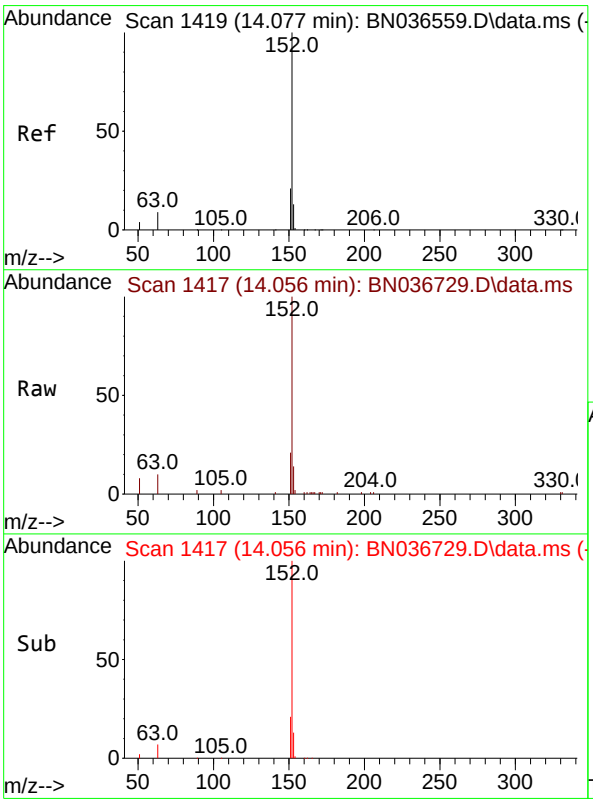
#15
2-Fluorobiphenyl
Concen: 0.343 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8502

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	24.7	20.2	30.4

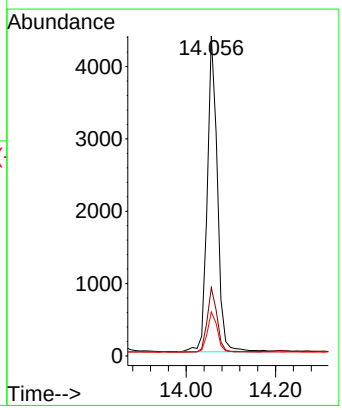


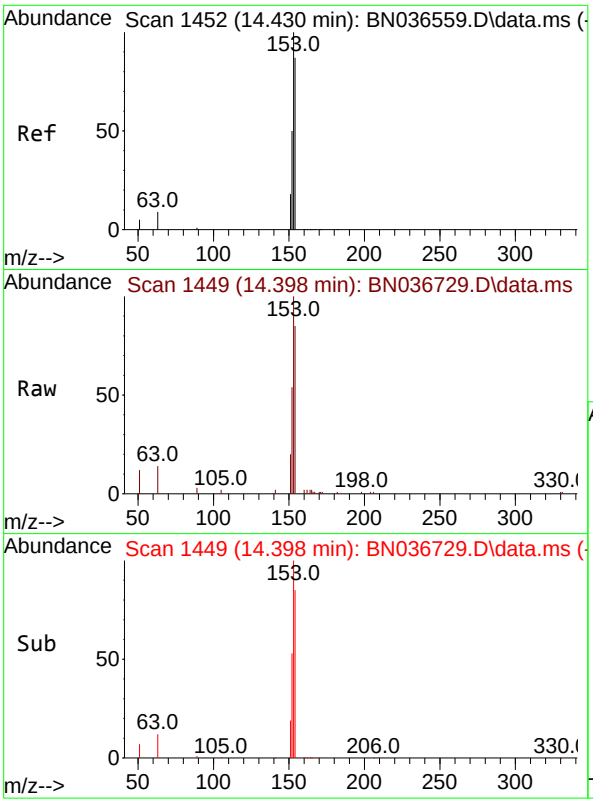


#16
Acenaphthylene
Concen: 0.341 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:152 Resp: 6856

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.8	10.6	15.8



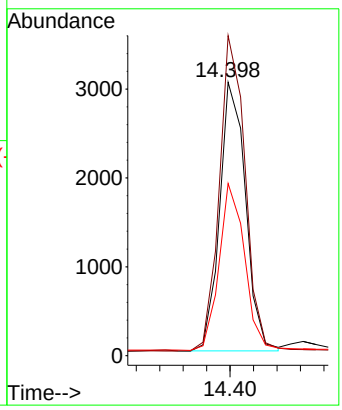


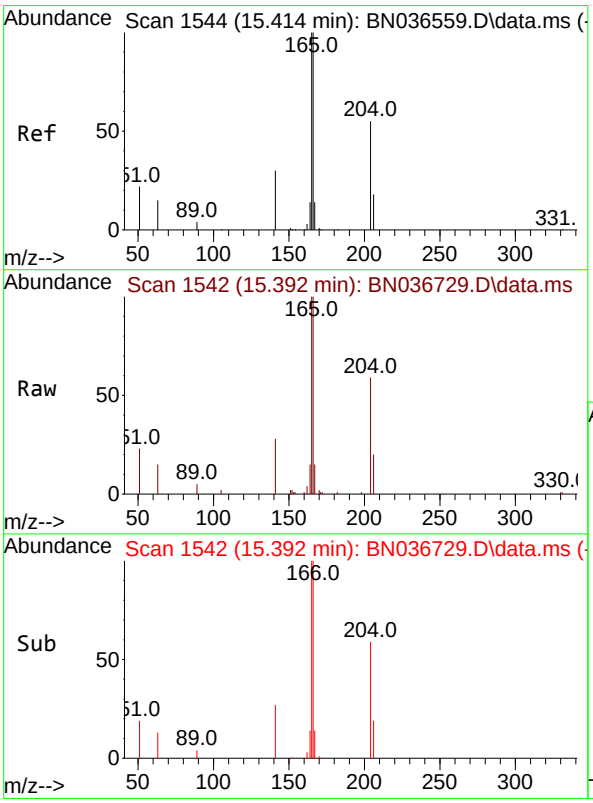
#17
Acenaphthene
Concen: 0.353 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4636

Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.1	141.1
152	62.4	49.8	74.6

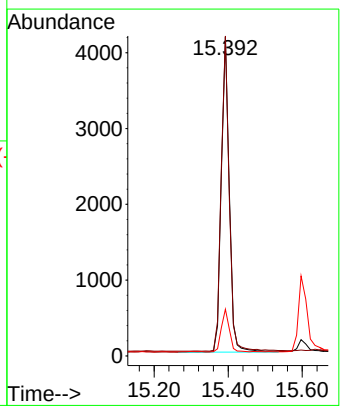


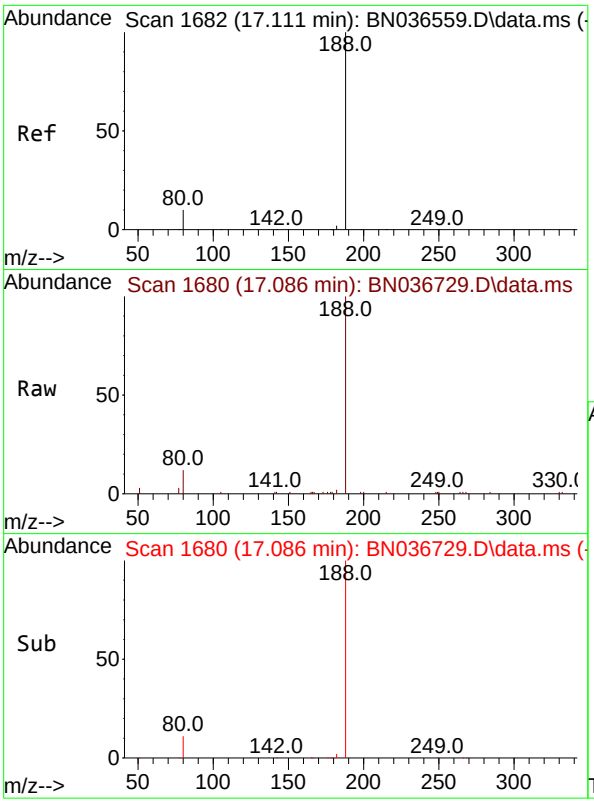


#18
Fluorene
Concen: 0.354 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:166 Resp: 6299

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	13.4	10.6	15.8



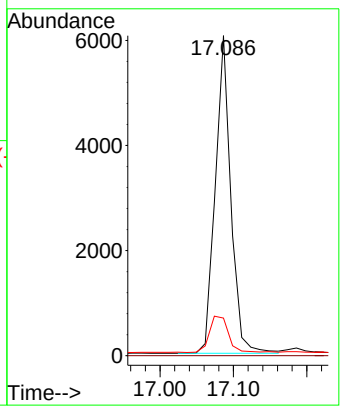


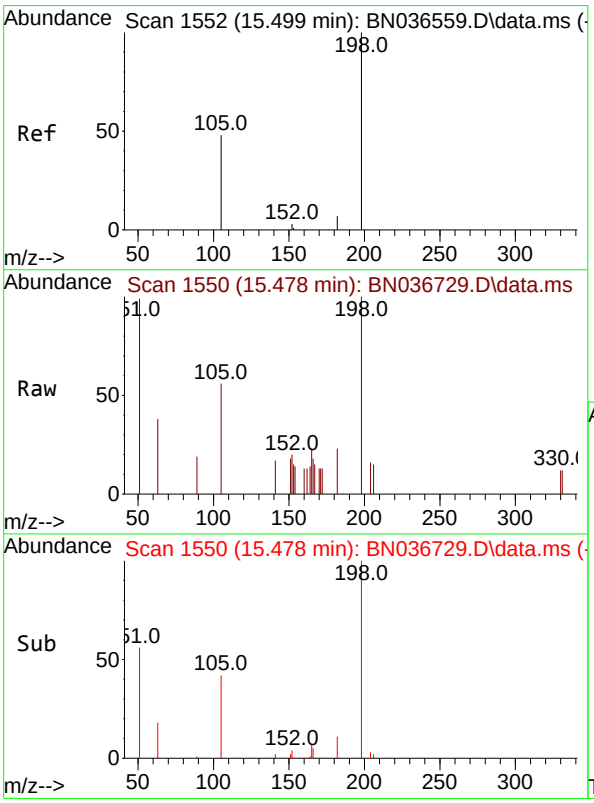
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 8860

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

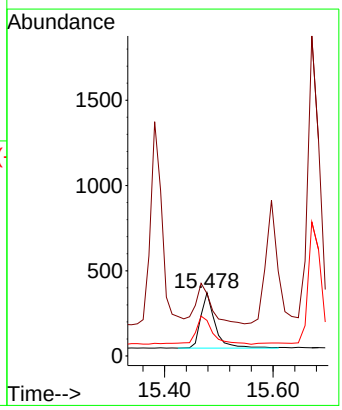


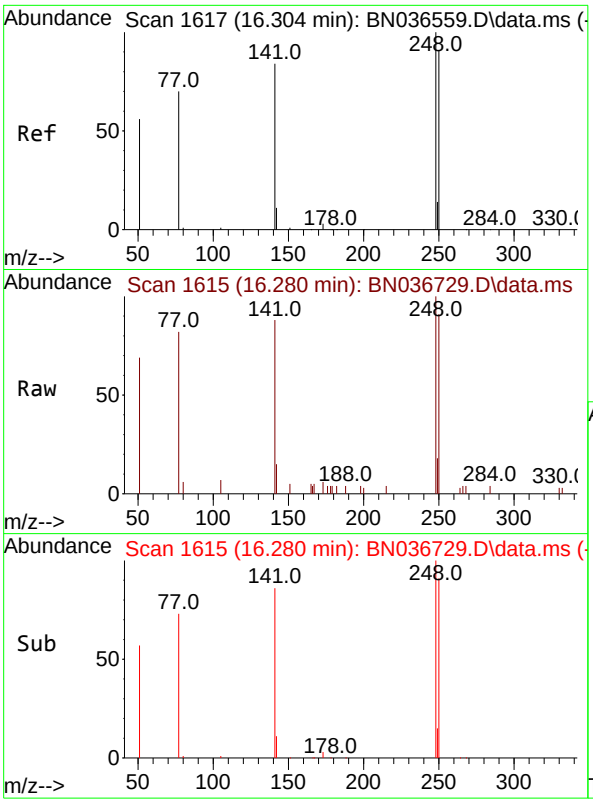


#20
4,6-Dinitro-2-methylphenol
Concen: 0.427 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:198 Resp: 636

Ion	Ratio	Lower	Upper
198	100		
51	98.7	107.9	161.9#
105	56.3	56.2	84.2



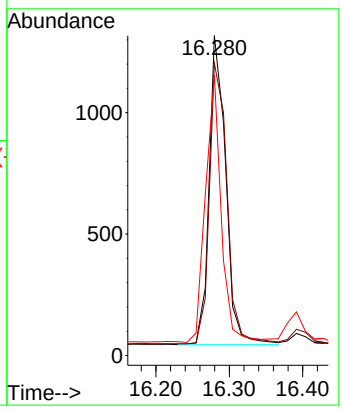


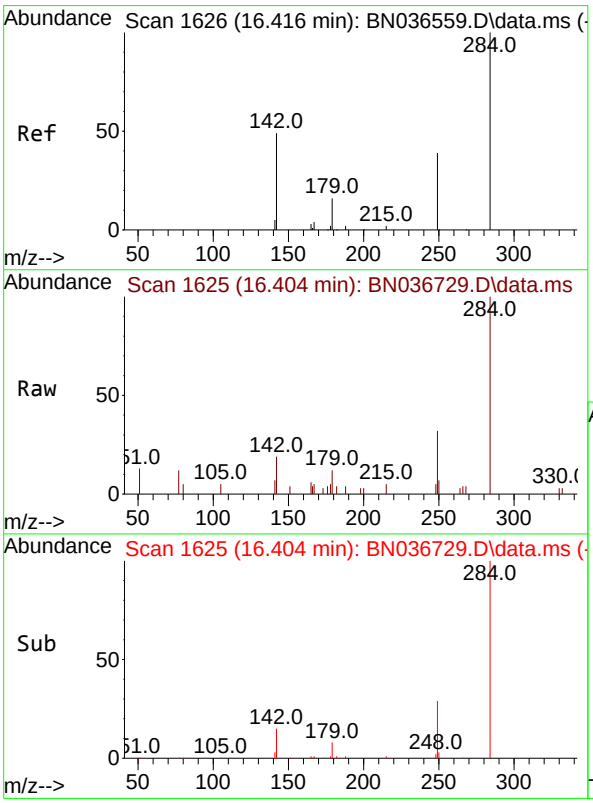
#21
4-Bromophenyl-phenylether
Concen: 0.360 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1998

Ion	Ratio	Lower	Upper
248	100		
250	91.4	73.0	109.6
141	87.8	68.6	103.0

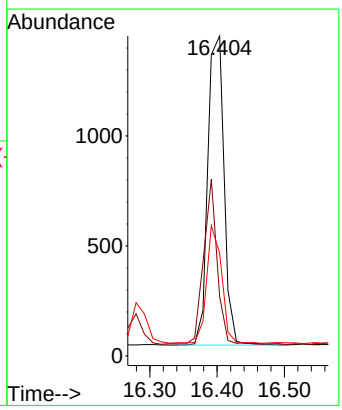


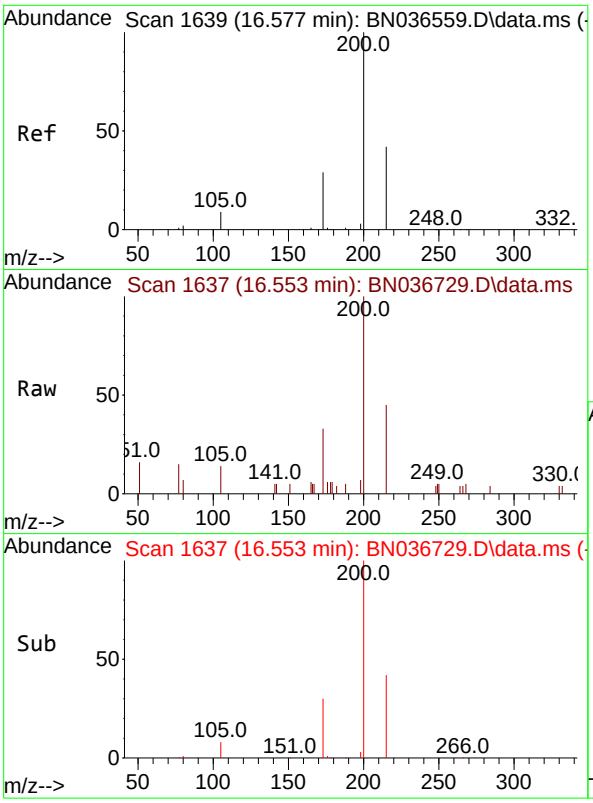


#22
Hexachlorobenzene
Concen: 0.354 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:284 Resp: 2370

Ion	Ratio	Lower	Upper
284	100		
142	44.0	37.0	55.4
249	35.1	28.1	42.1



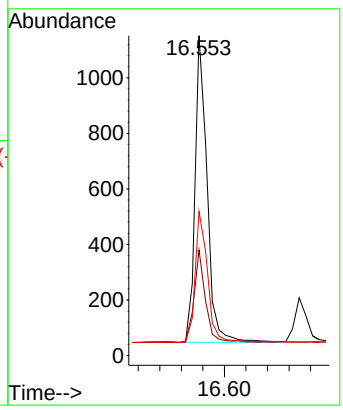


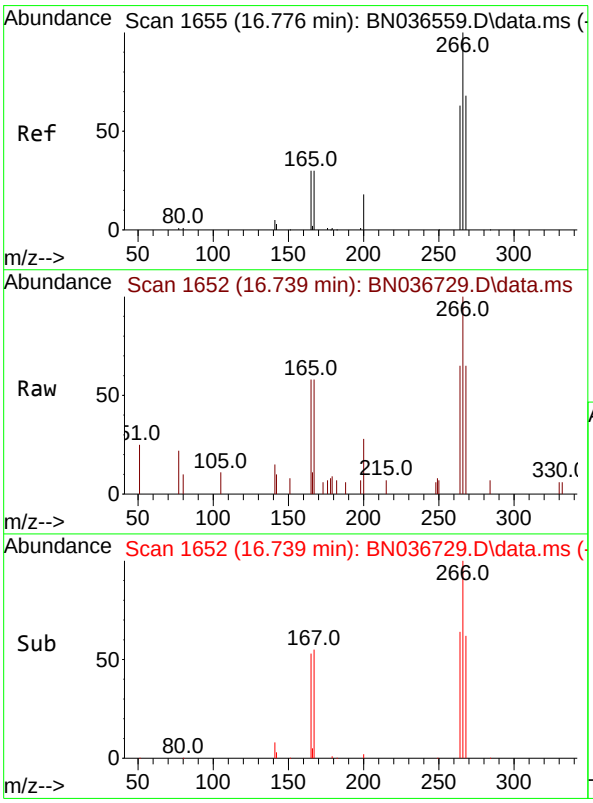
#23
Atrazine
Concen: 0.385 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1715

Ion	Ratio	Lower	Upper
200	100		
173	33.0	27.3	40.9
215	45.1	36.8	55.2

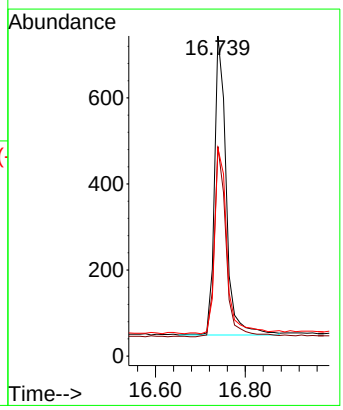


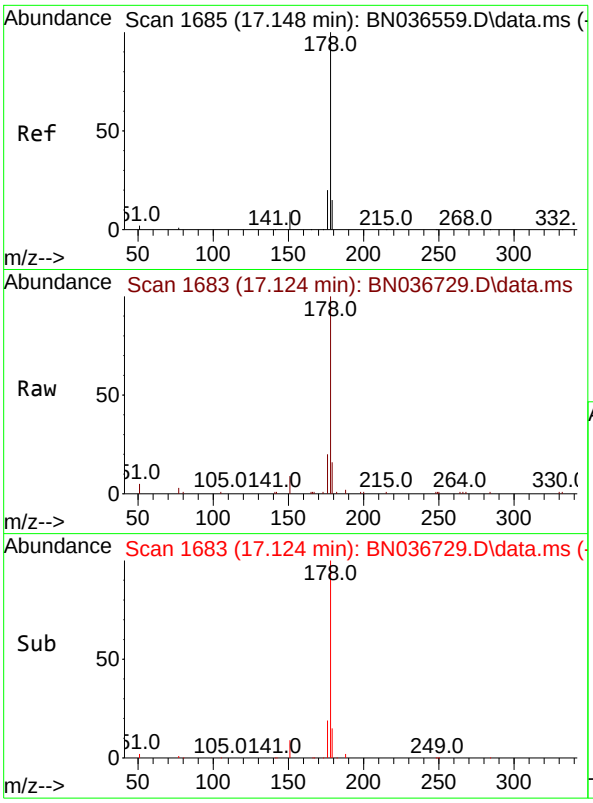


#24
Pentachlorophenol
Concen: 0.412 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:266 Resp: 1259

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.6	74.4
268	65.0	50.9	76.3



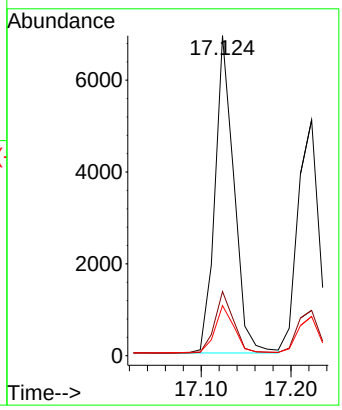


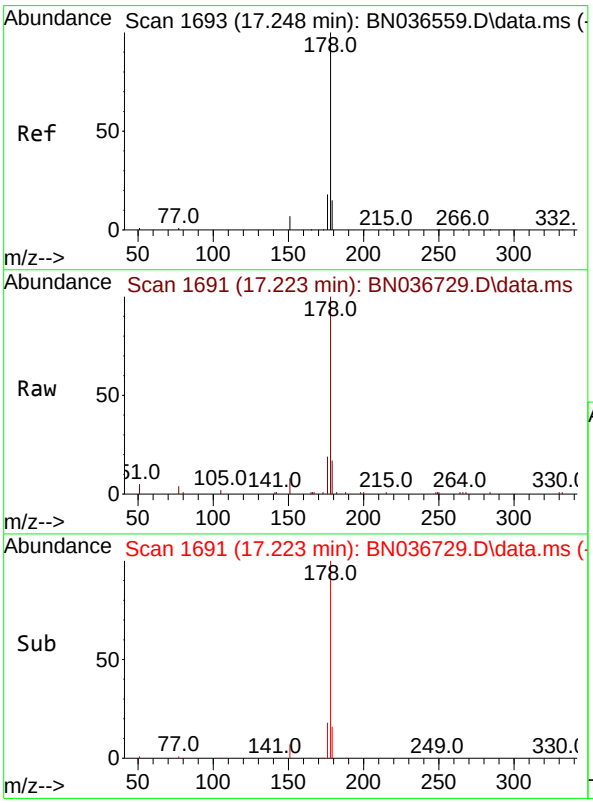
#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 10196

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	15.0	12.2	18.4

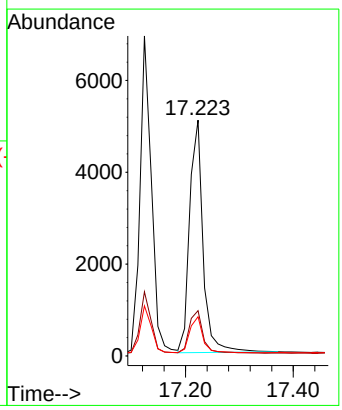


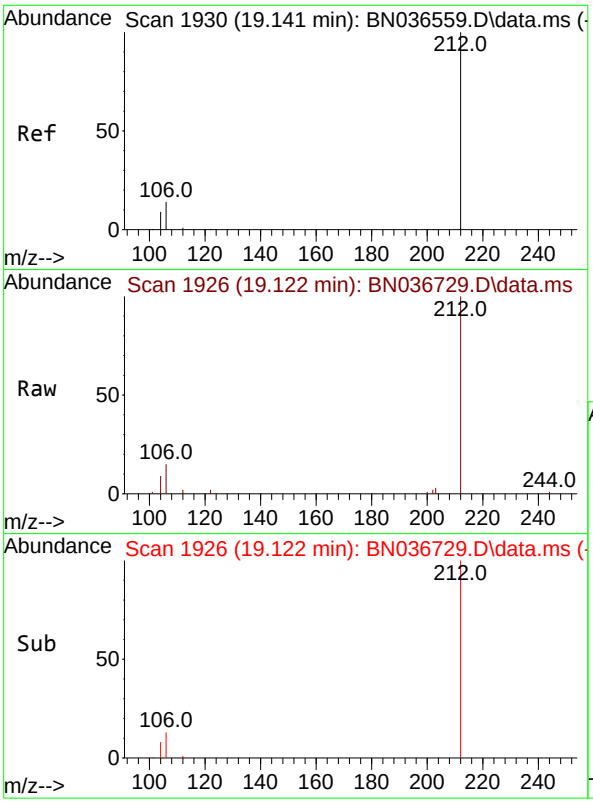


#26
Anthracene
Concen: 0.367 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:178 Resp: 8794

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.2	12.6	18.8



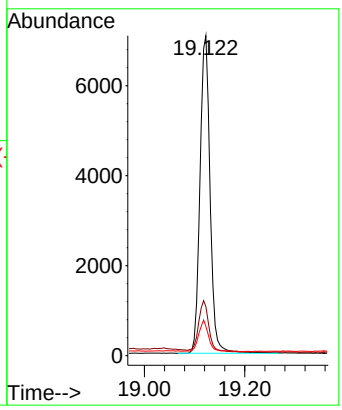


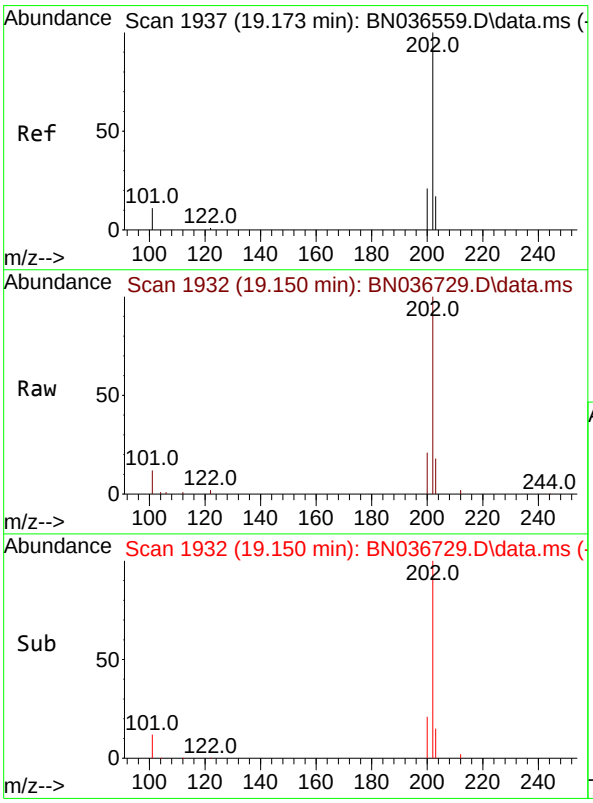
#27
Fluoranthene-d10
Concen: 0.433 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 9834

Ion	Ratio	Lower	Upper
212	100		
106	16.6	11.8	17.6
104	9.6	7.3	10.9

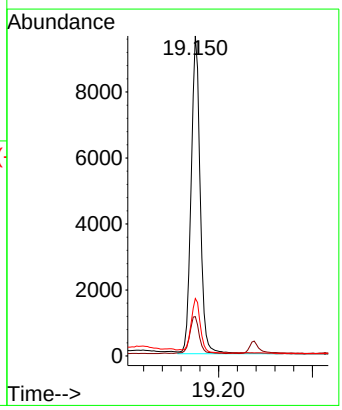


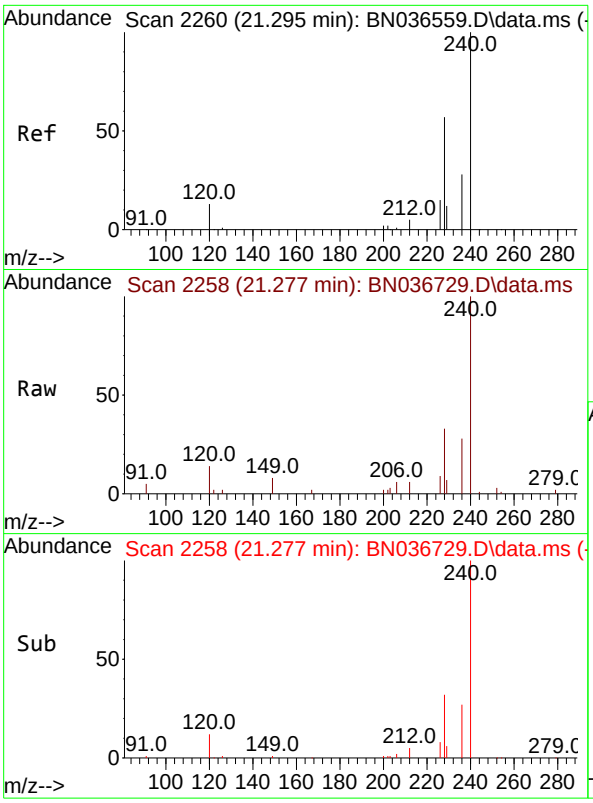


#28
Fluoranthene
Concen: 0.435 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:202 Resp: 12984

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.4	13.5	20.3



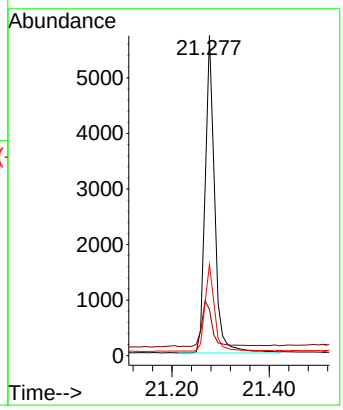


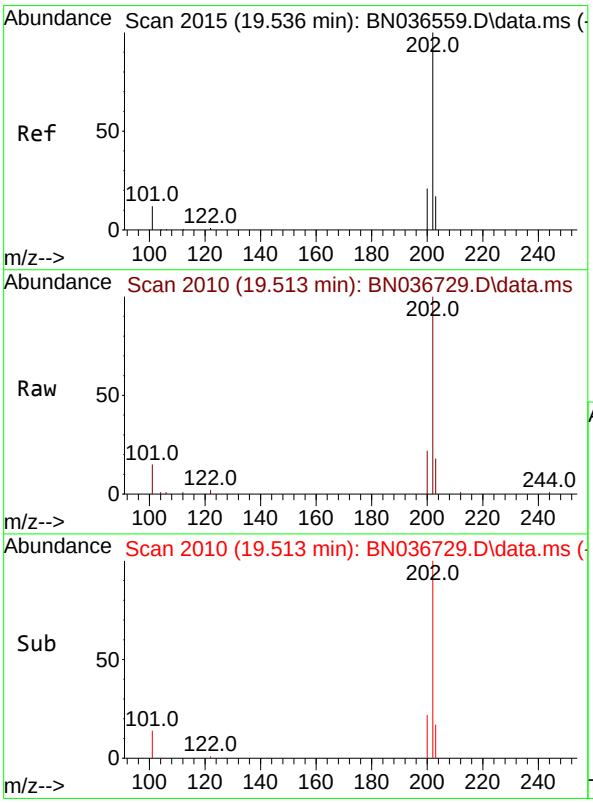
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 7759

Ion	Ratio	Lower	Upper
240	100		
120	14.5	14.6	22.0#
236	28.5	24.1	36.1

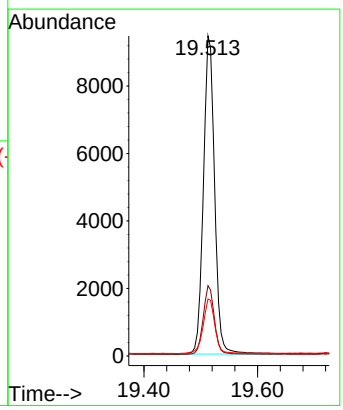


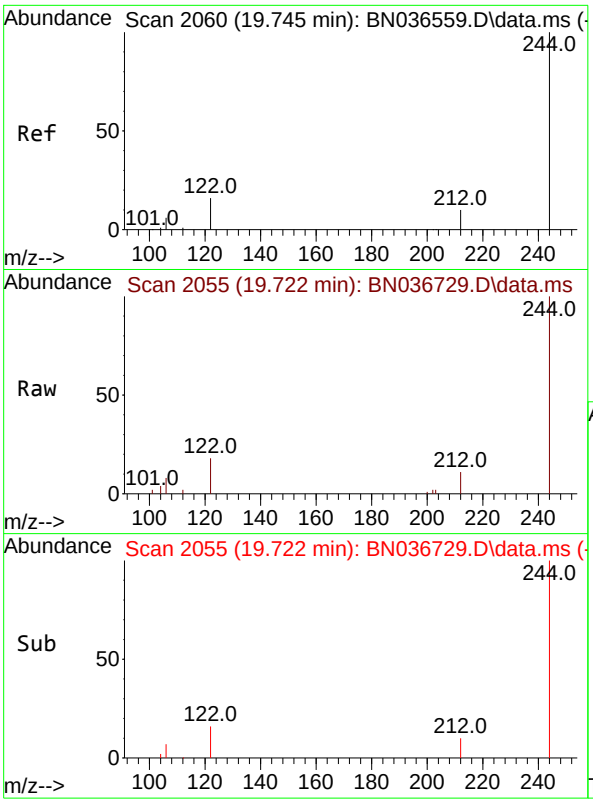


#30
Pyrene
Concen: 0.340 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:202 Resp: 12887

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.9	14.1	21.1



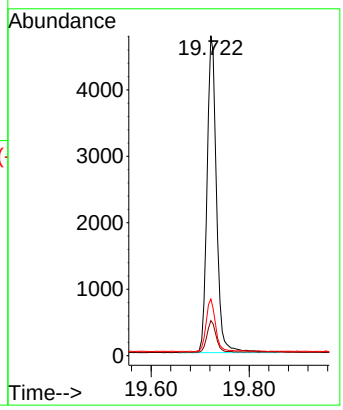


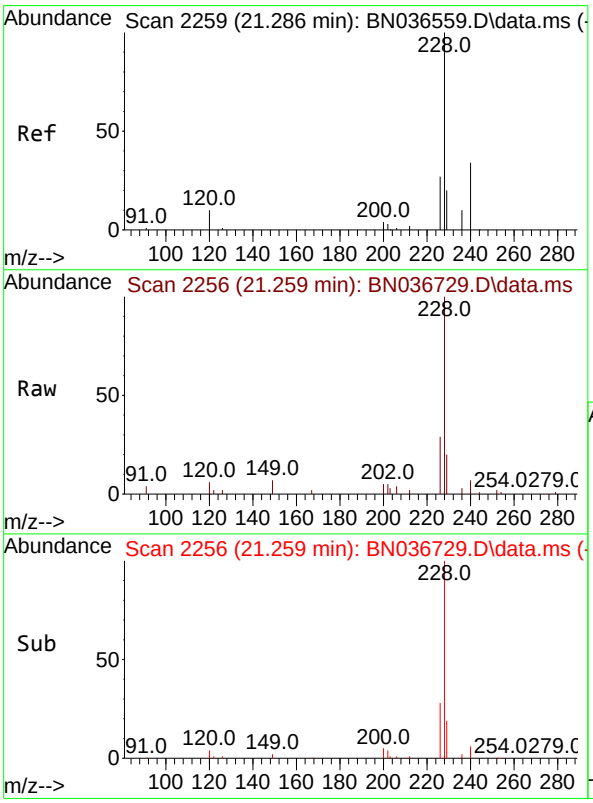
#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6361

Ion	Ratio	Lower	Upper
244	100		
212	10.9	9.6	14.4
122	17.7	13.9	20.9

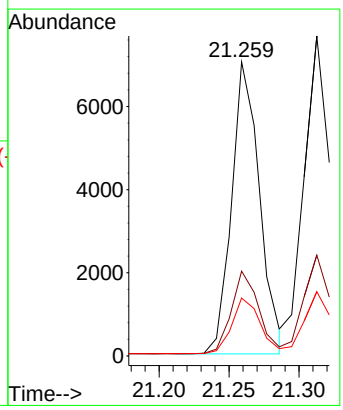


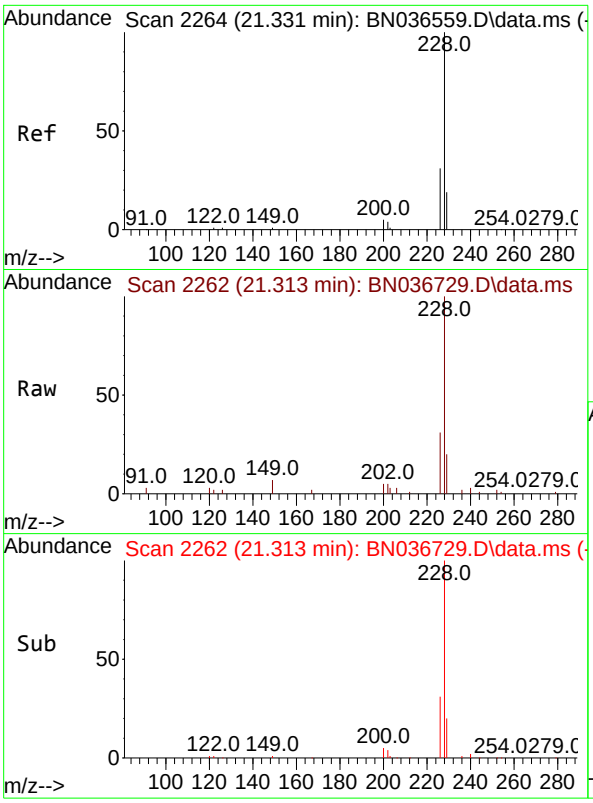


#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:228 Resp: 9768

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	19.7	16.6	25.0



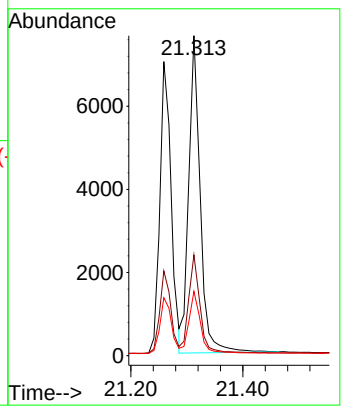


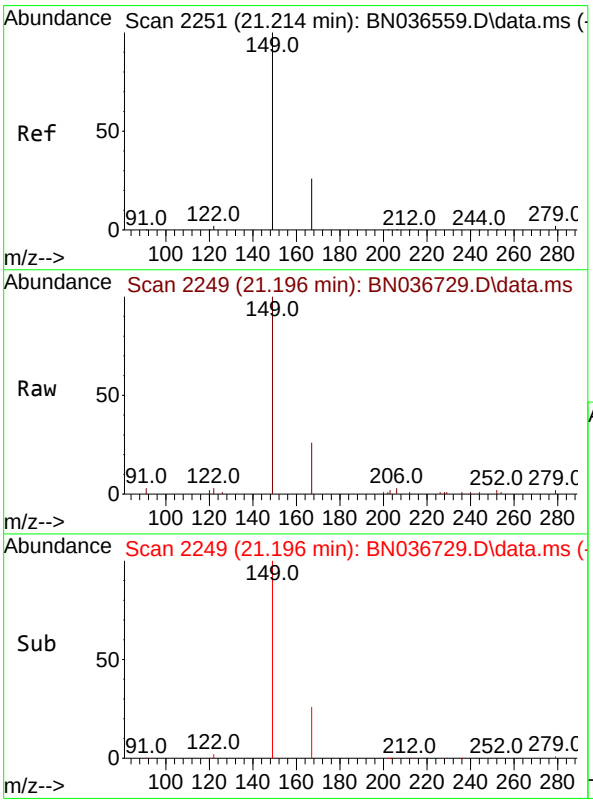
#33
Chrysene
Concen: 0.370 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 10899

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.3	37.9
229	20.1	15.8	23.8

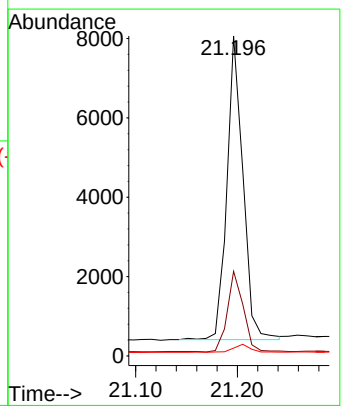


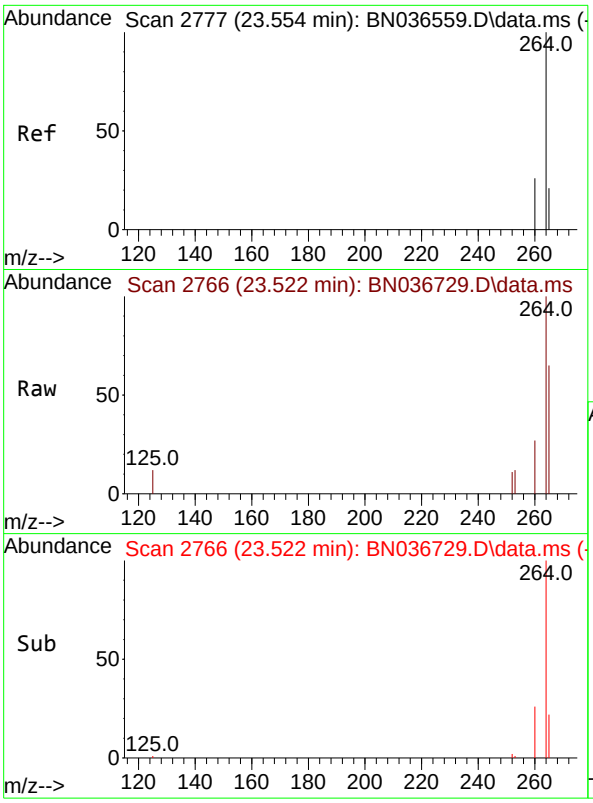


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.436 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:149 Resp: 8379

Ion	Ratio	Lower	Upper
149	100		
167	26.5	20.7	31.1
279	2.8	3.6	5.4#



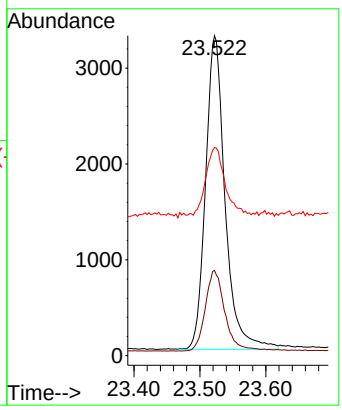


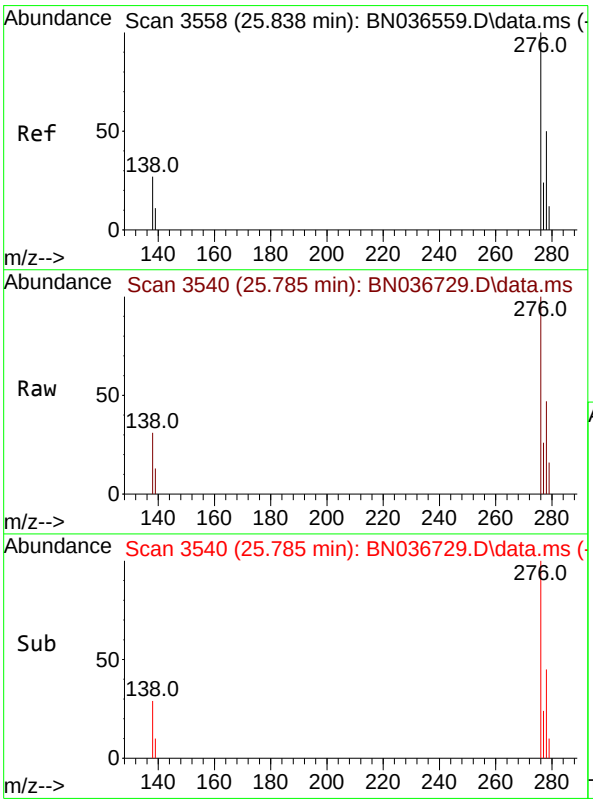
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 6723

Ion	Ratio	Lower	Upper
264	100		
260	26.6	22.6	33.8
265	65.0	88.1	132.1#

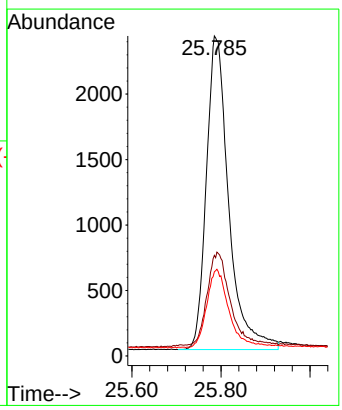


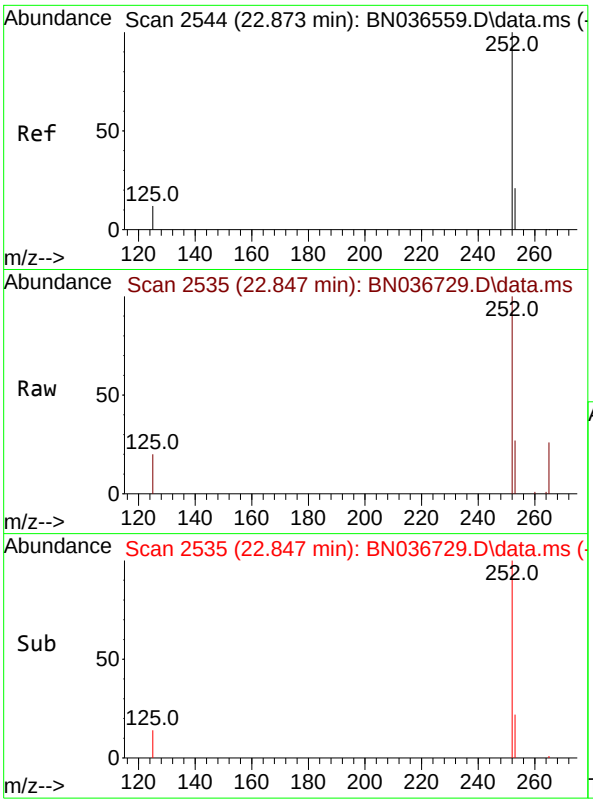


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.345 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.053 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:276 Resp: 8360

Ion	Ratio	Lower	Upper
276	100		
138	29.6	23.4	35.2
277	24.6	20.0	30.0



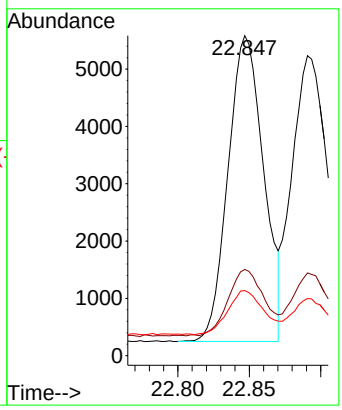


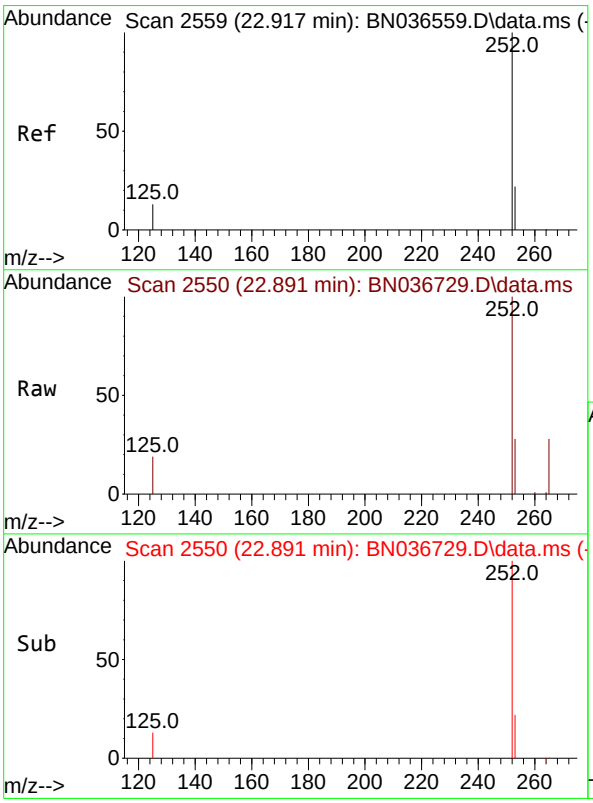
#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9234

Ion	Ratio	Lower	Upper
252	100		
253	27.0	23.9	35.9
125	20.3	17.4	26.2

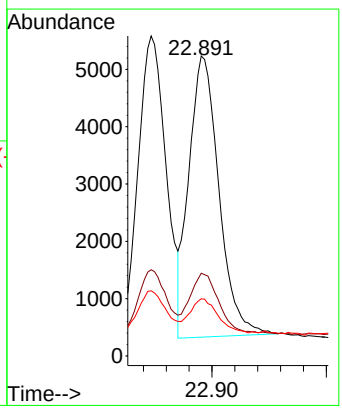


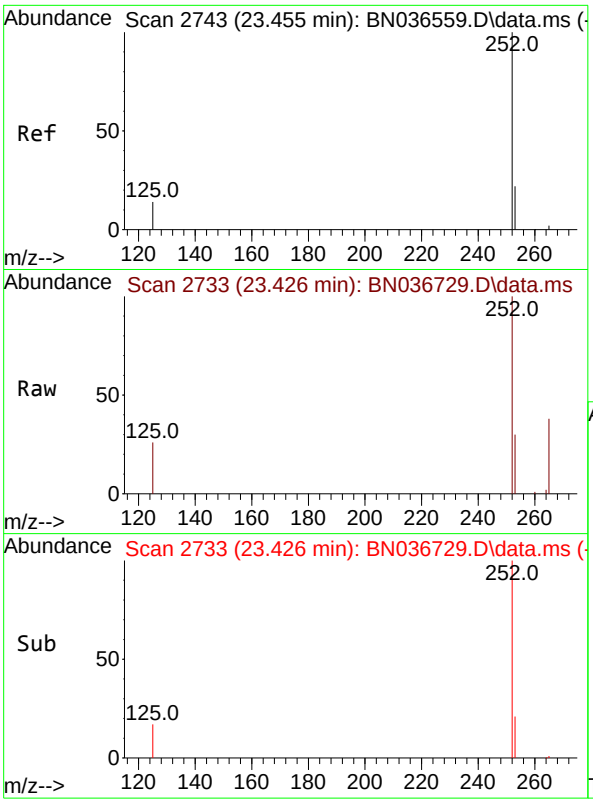


#38
Benzo(k)fluoranthene
Concen: 0.349 ng
RT: 22.891 min Scan# 2550
Delta R.T. -0.026 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:252 Resp: 8958

Ion	Ratio	Lower	Upper
252	100		
253	27.6	24.6	36.8
125	19.0	17.8	26.8



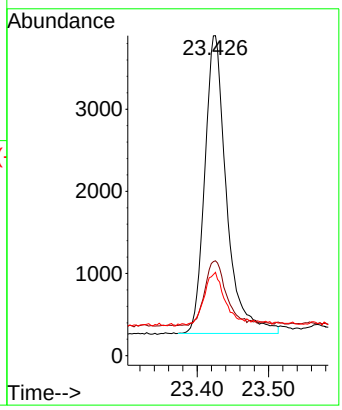


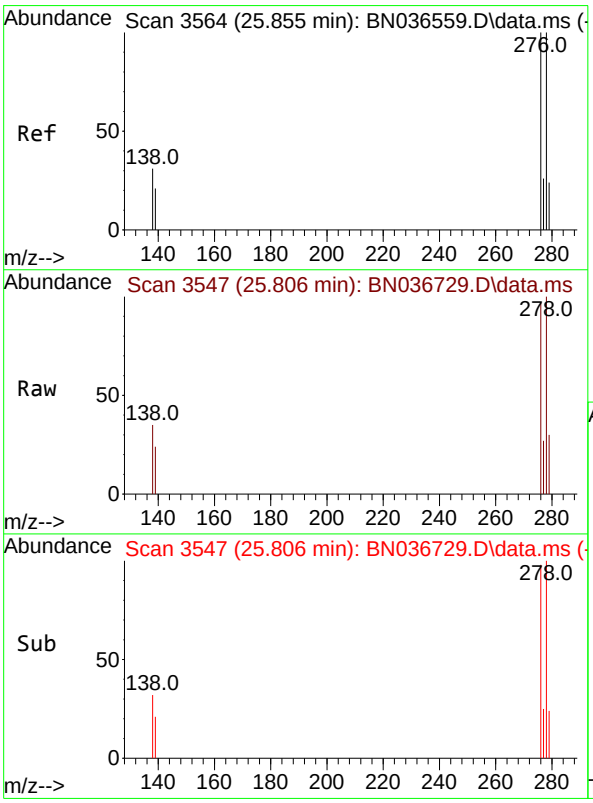
#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 7680

Ion	Ratio	Lower	Upper
252	100		
253	29.7	27.8	41.8
125	26.0	22.7	34.1

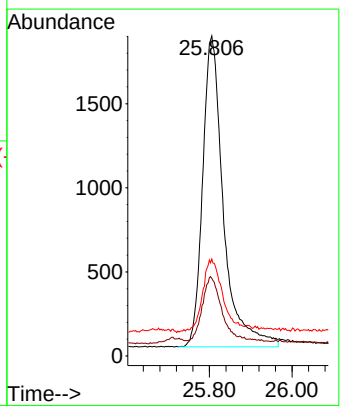


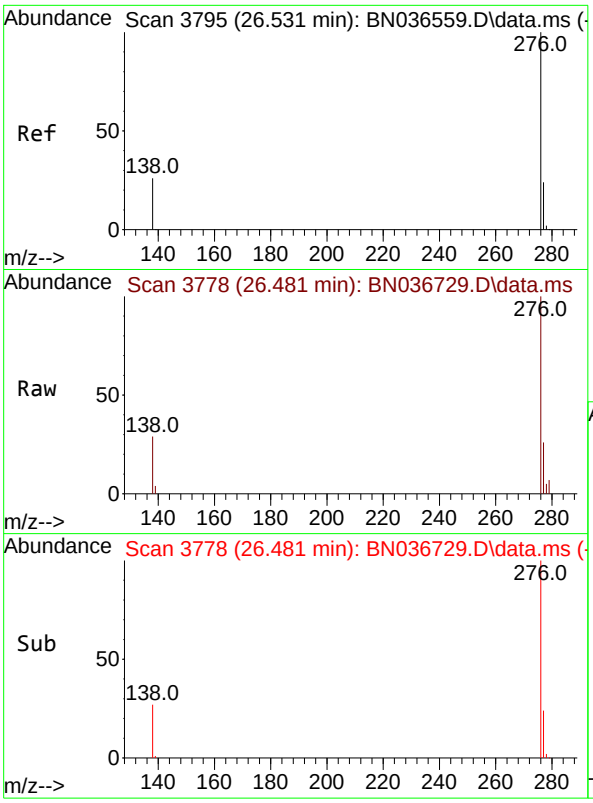


#40
Dibenzo(a,h)anthracene
Concen: 0.343 ng
RT: 25.806 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Tgt Ion:278 Resp: 6473

Ion	Ratio	Lower	Upper
278	100		
139	24.3	20.8	31.2
279	30.3	28.8	43.2



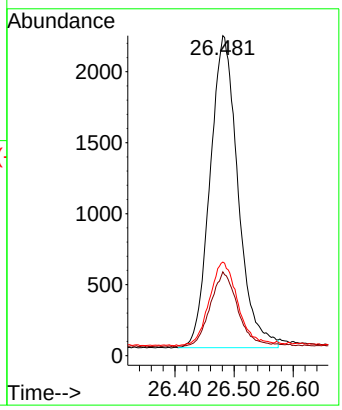


#41
Benzo(g,h,i)perylene
Concen: 0.333 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036729.D
Acq: 27 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 7201

Ion	Ratio	Lower	Upper
276	100		
277	26.2	22.2	33.4
138	29.2	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036729.D
Acq On : 27 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 10:52:22 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

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	131	-0.02
2		1,4-Dioxane	0.444	0.426	4.1	112	-0.01
3		n-Nitrosodimethylamine	0.898	0.777	13.5	109	-0.01
4	S	2-Fluorophenol	0.932	0.879	5.7	117	-0.02
5	S	Phenol-d6	1.152	1.073	6.9	125	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.092	8.2	121	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	140	-0.02
8	S	Nitrobenzene-d5	0.435	0.371	14.7	126	-0.03
9		Naphthalene	1.177	1.051	10.7	122	-0.03
10		Hexachlorobutadiene	0.277	0.237	14.4	113	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.536	9.9	124	-0.03
12		2-Methylnaphthalene	0.749	0.672	10.3	123	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.182	0.167	8.2	125	-0.02
15	S	2-Fluorobiphenyl	2.327	1.998	14.1	117	-0.03
16		Acenaphthylene	1.888	1.611	14.7	117	-0.02
17		Acenaphthene	1.236	1.090	11.8	120	-0.03
18		Fluorene	1.672	1.480	11.5	118	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	148	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.072	16.3	138	-0.02
21		4-Bromophenyl-phenylether	0.251	0.226	10.0	122	-0.02
22		Hexachlorobenzene	0.303	0.267	11.9	117	-0.01
23		Atrazine	0.201	0.194	3.5	134	-0.02
24		Pentachlorophenol	0.138	0.142	-2.9	153#	-0.04
25		Phenanthrene	1.200	1.151	4.1	131	-0.02
26		Anthracene	1.083	0.993	8.3	128	-0.02
27	SURR	Fluoranthene-d10	1.025	1.110	-8.3	147	-0.02
28		Fluoranthene	1.348	1.465	-8.7	149	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	189#	-0.02
30		Pyrene	1.956	1.661	15.1	147	-0.02
31	S	Terphenyl-d14	0.958	0.820	14.4	151#	-0.02
32		Benzo(a)anthracene	1.391	1.259	9.5	165#	-0.03
33		Chrysene	1.520	1.405	7.6	165#	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	1.080	-9.1	195#	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	190#	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.243	13.9	153#	-0.05
37		Benzo(b)fluoranthene	1.456	1.373	5.7	169#	-0.03
38		Benzo(k)fluoranthene	1.527	1.332	12.8	156#	-0.03
39	C	Benzo(a)pyrene	1.226	1.142	6.9	167#	-0.03
40		Dibenzo(a,h)anthracene	1.124	0.963	14.3	157#	-0.05
41		Benzo(g,h,i)perylene	1.286	1.071	16.7	147	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036729.D
Acq On : 27 Mar 2025 09:49
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 10:52:22 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

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	131	-0.02
2		1,4-Dioxane	0.400	0.384	4.0	112	-0.01
3		n-Nitrosodimethylamine	0.400	0.346	13.5	109	-0.01
4	S	2-Fluorophenol	0.400	0.377	5.8	117	-0.02
5	S	Phenol-d6	0.400	0.373	6.8	125	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.367	8.3	121	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	140	-0.02
8	S	Nitrobenzene-d5	0.400	0.341	14.8	126	-0.03
9		Naphthalene	0.400	0.357	10.8	122	-0.03
10		Hexachlorobutadiene	0.400	0.343	14.2	113	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	124	-0.03
12		2-Methylnaphthalene	0.400	0.359	10.3	123	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.368	8.0	125	-0.02
15	S	2-Fluorobiphenyl	0.400	0.343	14.2	117	-0.03
16		Acenaphthylene	0.400	0.341	14.8	117	-0.02
17		Acenaphthene	0.400	0.353	11.8	120	-0.03
18		Fluorene	0.400	0.354	11.5	118	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	148	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.427	-6.7	138	-0.02
21		4-Bromophenyl-phenylether	0.400	0.360	10.0	122	-0.02
22		Hexachlorobenzene	0.400	0.354	11.5	117	-0.01
23		Atrazine	0.400	0.385	3.8	134	-0.02
24		Pentachlorophenol	0.400	0.412	-3.0	153	-0.04
25		Phenanthrene	0.400	0.384	4.0	131	-0.02
26		Anthracene	0.400	0.367	8.3	128	-0.02
27	SURR	Fluoranthene-d10	0.400	0.433	-8.2	147	-0.02
28		Fluoranthene	0.400	0.435	-8.7	149	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	189	-0.02
30		Pyrene	0.400	0.340	15.0	147	-0.02
31	S	Terphenyl-d14	0.400	0.342	14.5	151	-0.02
32		Benzo(a)anthracene	0.400	0.362	9.5	165	-0.03
33		Chrysene	0.400	0.370	7.5	165	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.436	-9.0	195	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	190	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.345	13.8	153	-0.05
37		Benzo(b)fluoranthene	0.400	0.377	5.8	169	-0.03
38		Benzo(k)fluoranthene	0.400	0.349	12.8	156	-0.03
39	C	Benzo(a)pyrene	0.400	0.373	6.8	167	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.343	14.2	157	-0.05
41		Benzo(g,h,i)perylene	0.400	0.333	16.8	147	-0.05

(#) = 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: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG No.: Q1608

Instrument ID: BNA_N Calibration Date/Time: 03/27/2025 14:02

Lab File ID: BN036736.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC 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	0.530		-10.9	50.0
Fluoranthene-d10	1.025	1.022		-0.3	50.0
2-Fluorophenol	0.932	0.868		-6.9	50.0
Phenol-d6	1.152	1.008		-12.5	50.0
Nitrobenzene-d5	0.435	0.361		-17.0	50.0
2-Fluorobiphenyl	2.327	2.004		-13.9	50.0
2,4,6-Tribromophenol	0.182	0.174		-4.4	50.0
Terphenyl-d14	0.958	0.810		-15.4	50.0
1,4-Dioxane	0.444	0.491		10.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:28:04 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 :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1995	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	4873	0.400	ng		-0.02
13) Acenaphthene-d10	14.345	164	2980	0.400	ng		-0.02
19) Phenanthrene-d10	17.086	188	6276	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5211	0.400	ng		-0.02
35) Perylene-d12	23.525	264	4739	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1732	0.373	ng		-0.02
5) Phenol-d6	6.872	99	2011	0.350	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1760	0.332	ng		-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2584	0.356	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	518	0.383	ng		-0.02
15) 2-Fluorobiphenyl	12.968	172	5972	0.344	ng		-0.02
27) Fluoranthene-d10	19.122	212	6412	0.399	ng		-0.02
31) Terphenyl-d14	19.726	244	4220	0.338	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	979	0.442	ng		93
3) n-Nitrosodimethylamine	3.543	42	1688	0.377	ng		98
6) bis(2-Chloroethyl)ether	7.132	93	2087	0.352	ng		99
9) Naphthalene	10.530	128	5118	0.357	ng		99
10) Hexachlorobutadiene	10.829	225	1232	0.365	ng	#	96
12) 2-Methylnaphthalene	12.156	142	3238	0.355	ng		99
16) Acenaphthylene	14.056	152	4782	0.340	ng		100
17) Acenaphthene	14.398	154	3313	0.360	ng		100
18) Fluorene	15.392	166	4544	0.365	ng		99
20) 4,6-Dinitro-2-methylph...	15.489	198	478	0.444	ng	#	75
21) 4-Bromophenyl-phenylether	16.292	248	1431	0.364	ng	#	76
22) Hexachlorobenzene	16.404	284	1682	0.354	ng		96
23) Atrazine	16.565	200	1221	0.387	ng		95
24) Pentachlorophenol	16.751	266	801	0.370	ng		98
25) Phenanthrene	17.124	178	7195	0.382	ng		100
26) Anthracene	17.223	178	6283	0.370	ng		100
28) Fluoranthene	19.150	202	8617	0.407	ng		99
30) Pyrene	19.513	202	8868	0.348	ng		100
32) Benzo(a)anthracene	21.259	228	6412	0.354	ng		98
33) Chrysene	21.313	228	7670	0.387	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4505	0.349	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.791	276	6199	0.362	ng		98
37) Benzo(b)fluoranthene	22.847	252	6514	0.378	ng		95
38) Benzo(k)fluoranthene	22.891	252	7579m	0.419	ng		
39) Benzo(a)pyrene	23.426	252	5338	0.368	ng		94
40) Dibenzo(a,h)anthracene	25.808	278	4803	0.361	ng		95
41) Benzo(g,h,i)perylene	26.481	276	5667	0.372	ng		98

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

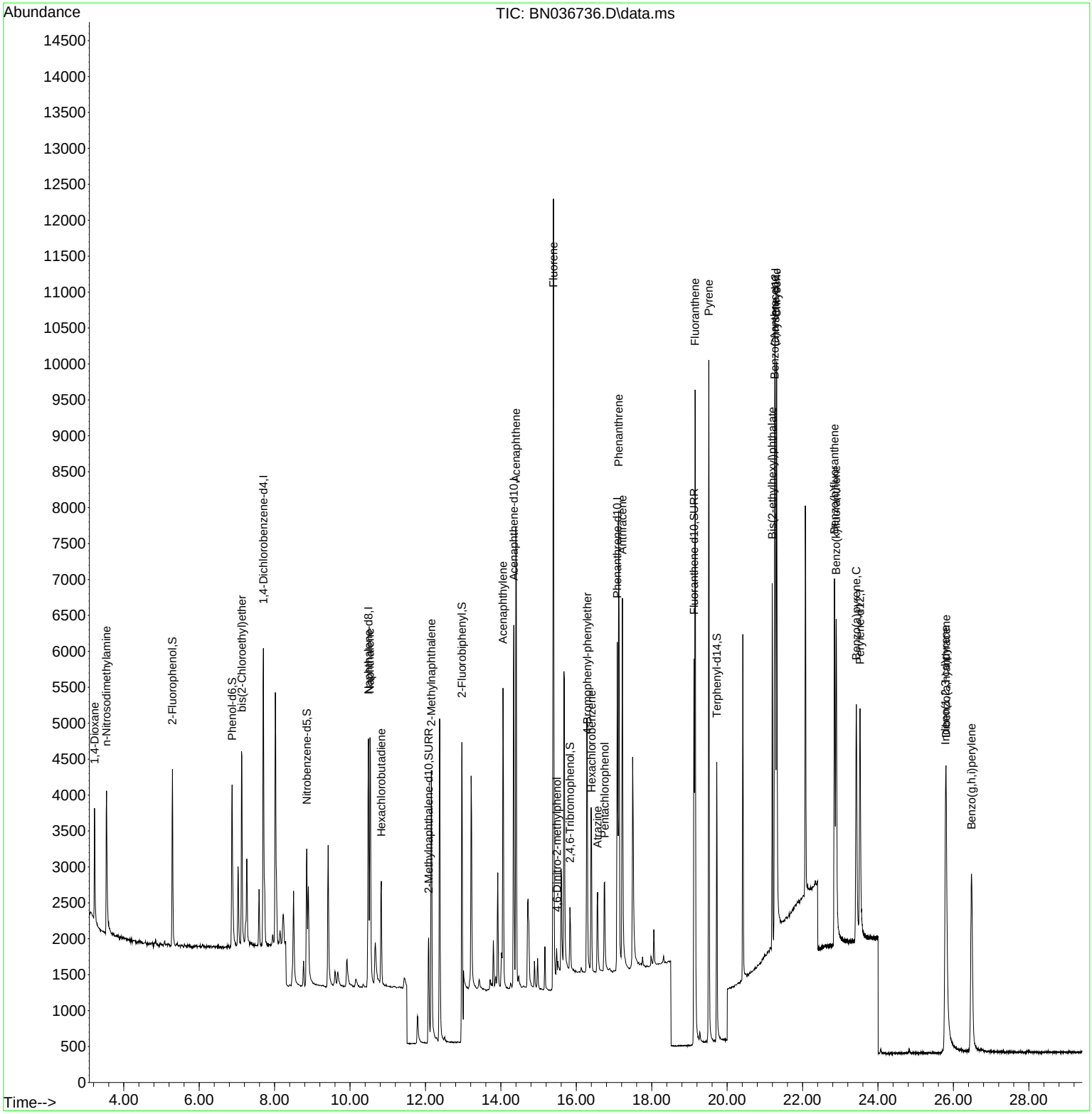
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

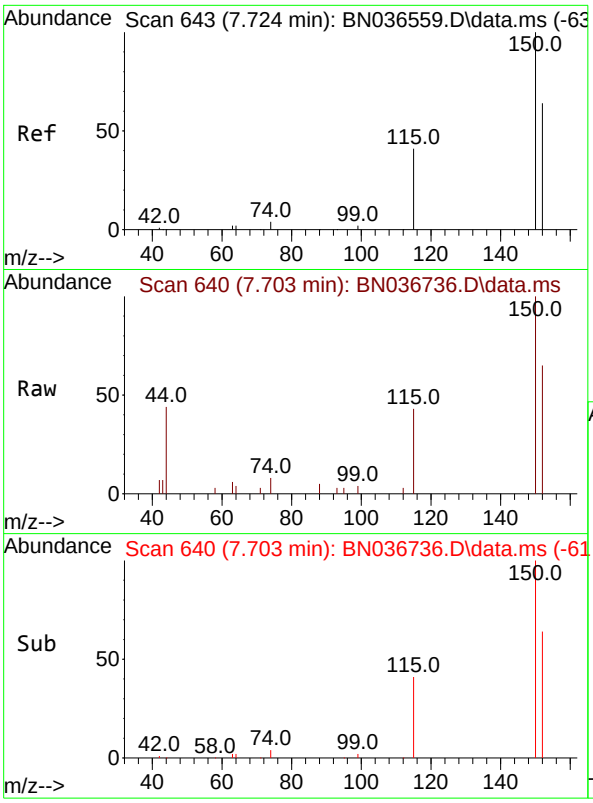
Quant Time: Mar 27 14:28:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

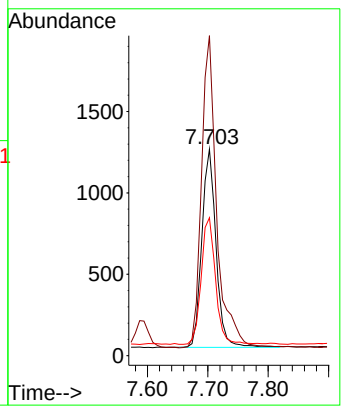




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:152 Resp: 199

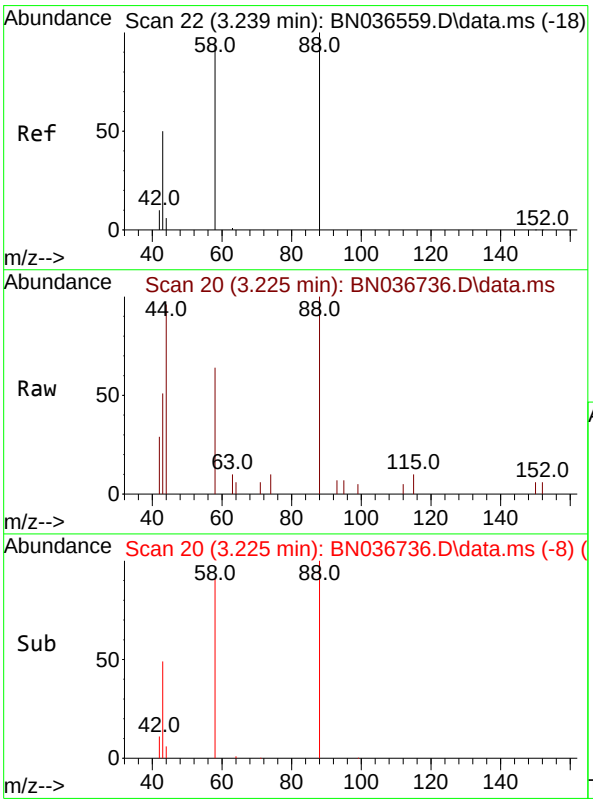
Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.7	185.5
115	66.7	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

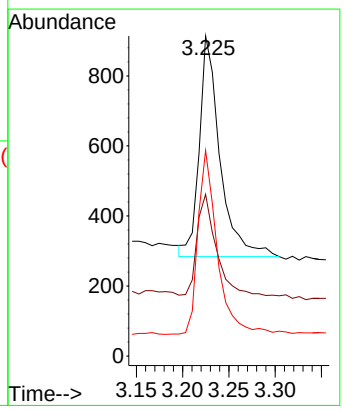
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

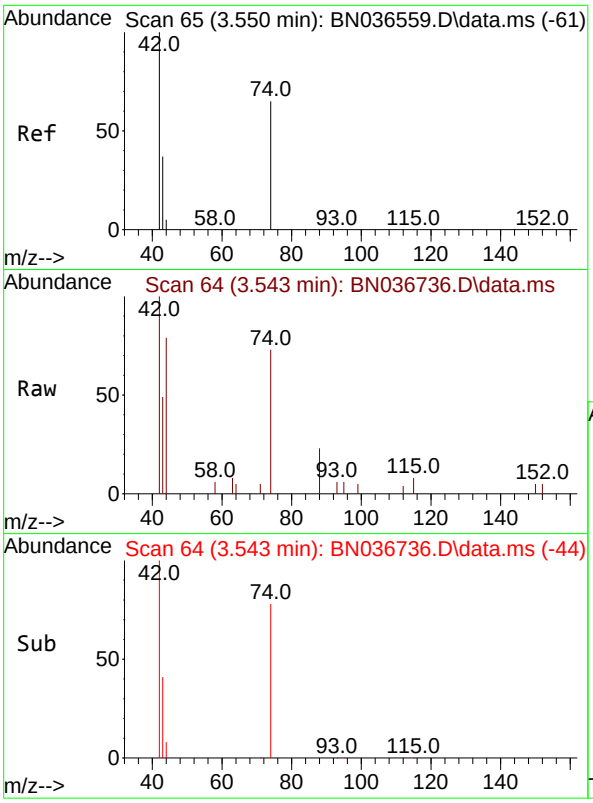


#2
1,4-Dioxane
Concen: 0.442 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 88 Resp: 979

Ion	Ratio	Lower	Upper
88	100		
43	43.0	37.8	56.8
58	77.9	67.4	101.2

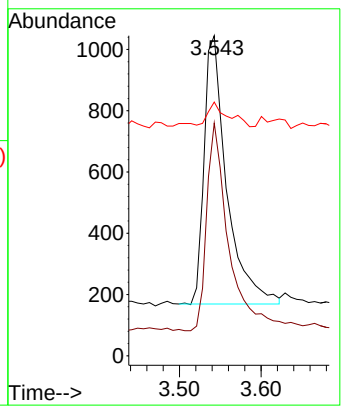




#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 42 Resp: 168

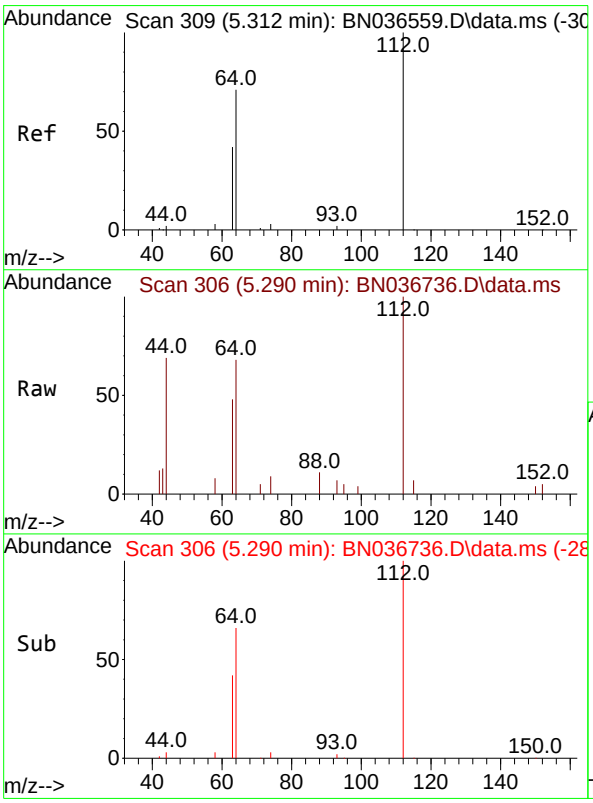
Ion	Ratio	Lower	Upper
42	100		
74	77.4	60.6	90.8
44	7.9	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

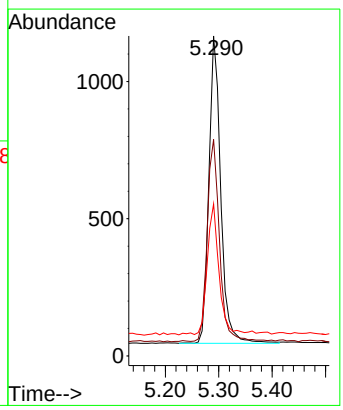
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

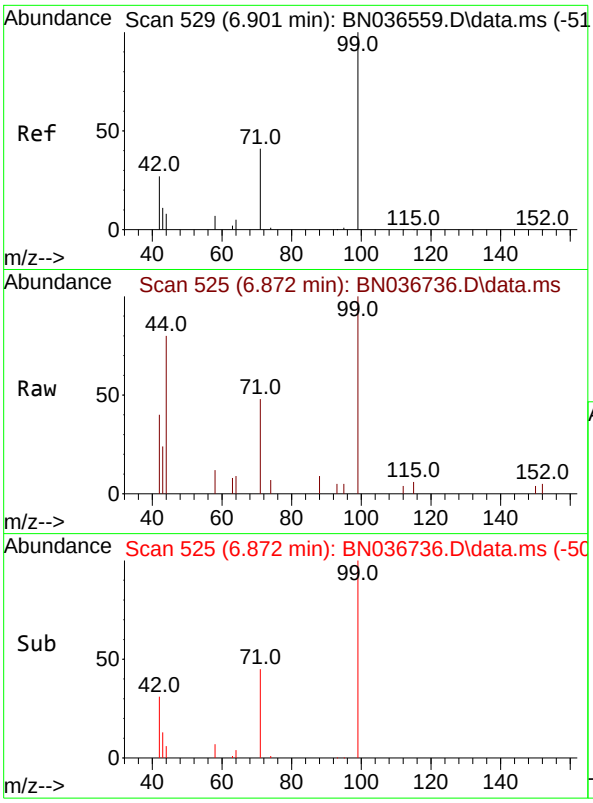


#4
2-Fluorophenol
Concen: 0.373 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:112 Resp: 1732

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.1	79.7
63	42.6	31.8	47.8





#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

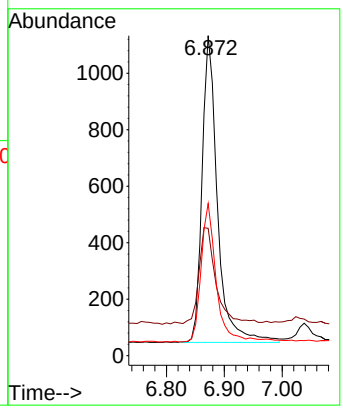
Tgt Ion: 99 Resp: 201

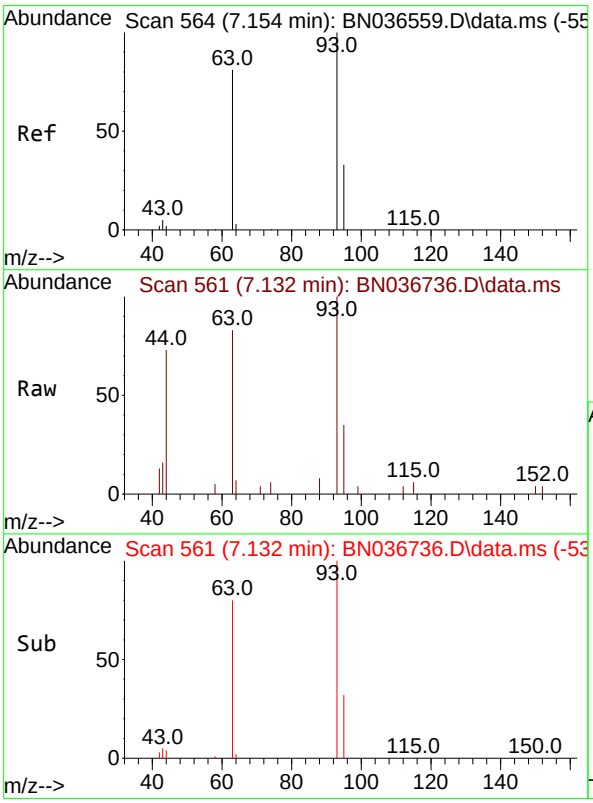
Ion	Ratio	Lower	Upper
99	100		
42	35.9	26.5	39.7
71	45.0	34.1	51.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

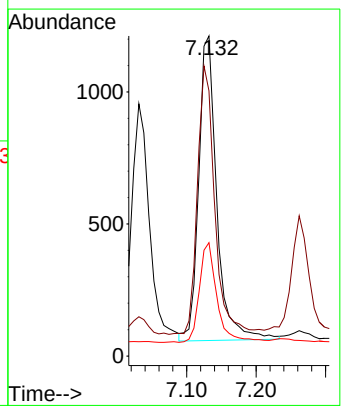


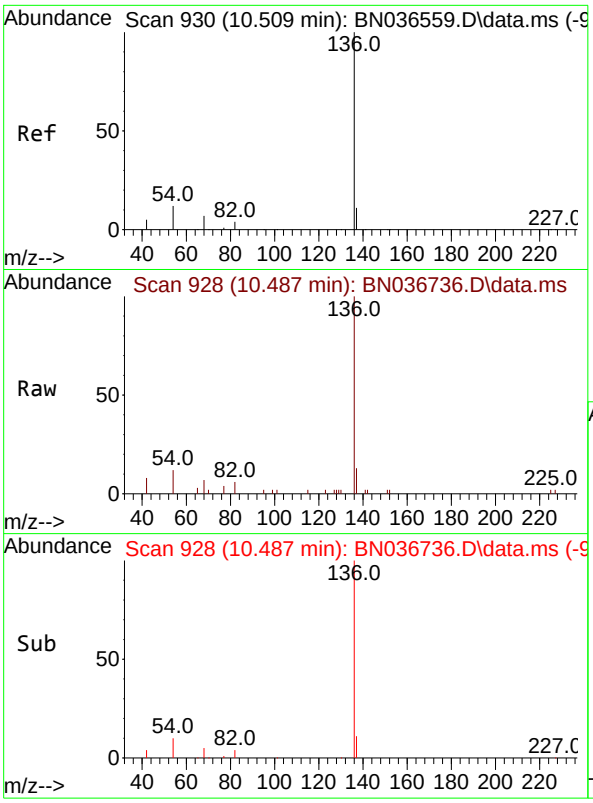


#6
bis(2-Chloroethyl)ether
Concen: 0.352 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.022 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 93 Resp: 2087

Ion	Ratio	Lower	Upper
93	100		
63	83.9	67.7	101.5
95	32.0	25.6	38.4

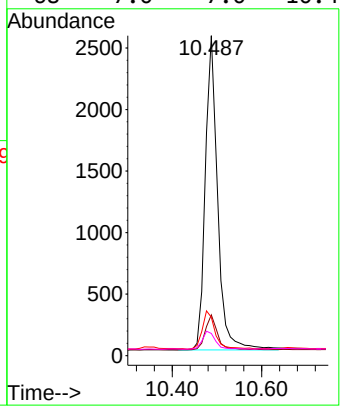




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:136 Resp: 487

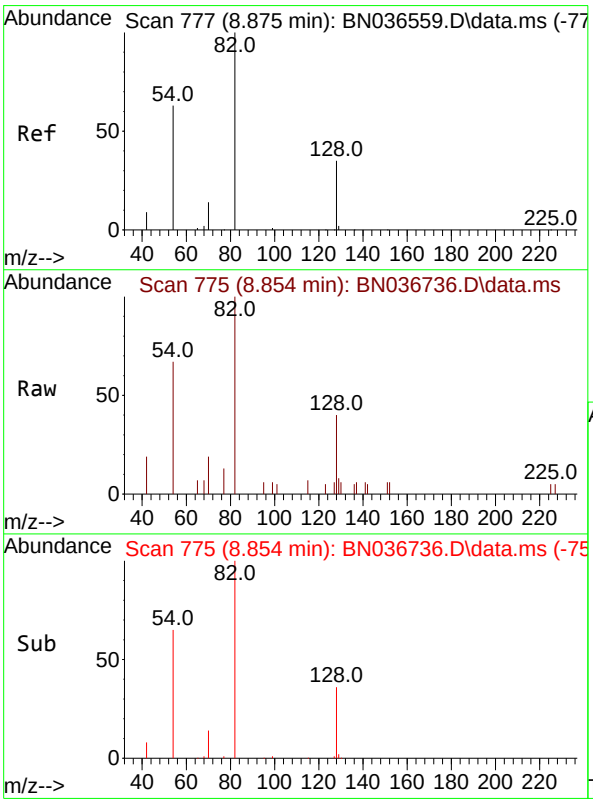
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	12.0	11.5	17.3
68	7.0	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

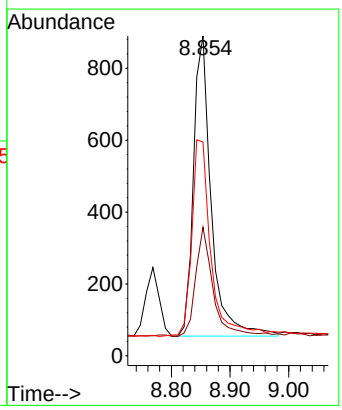
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

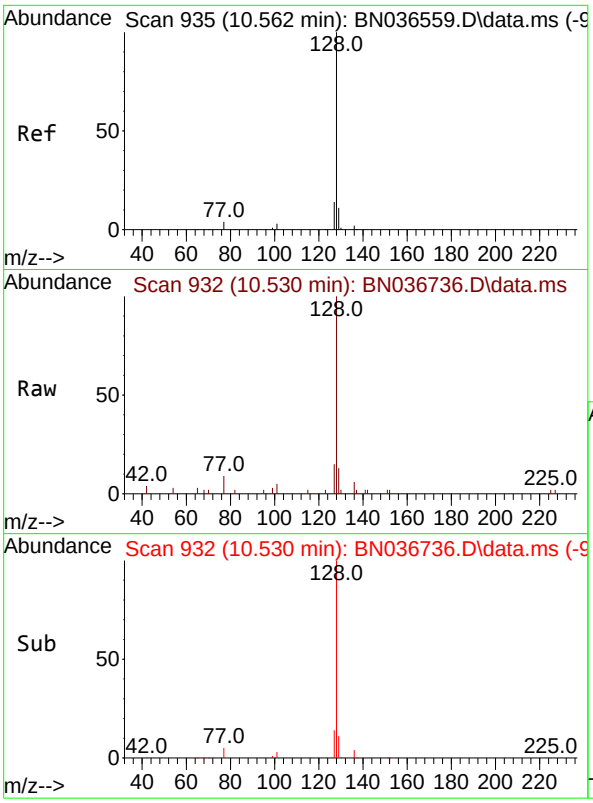


#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 82 Resp: 1760

Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.6	45.8
54	66.9	52.2	78.4

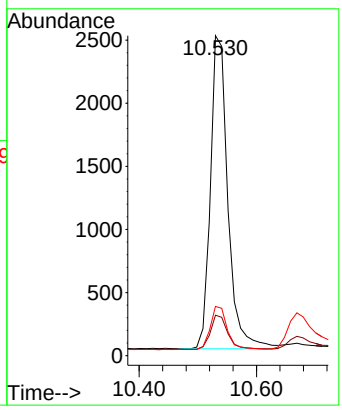




#9
Naphthalene
Concen: 0.357 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:128 Resp: 511

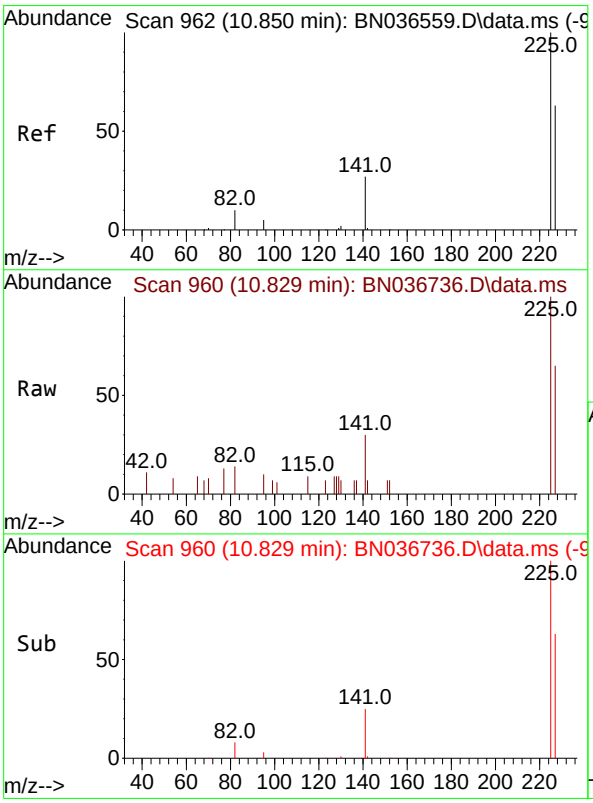
Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	15.4	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

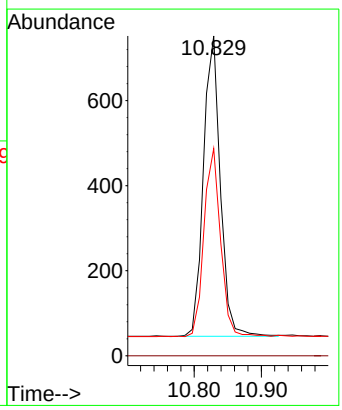
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

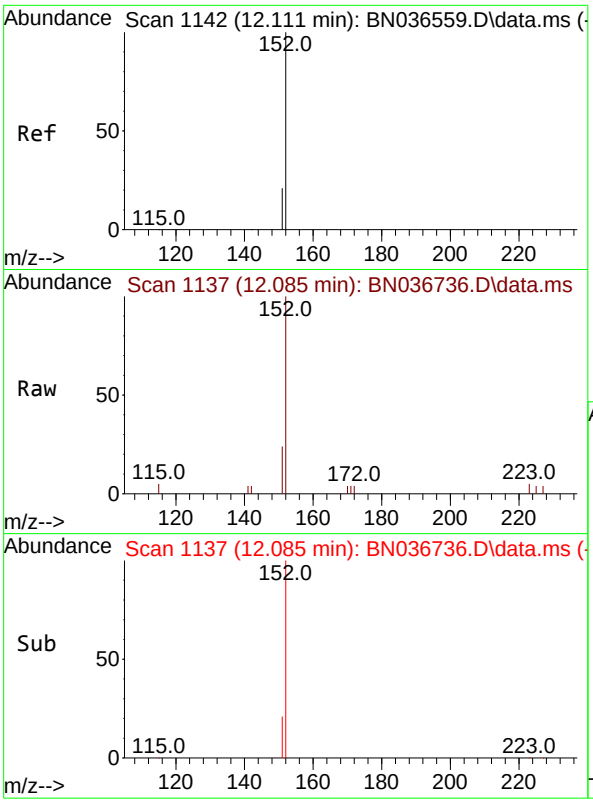


#10
Hexachlorobutadiene
Concen: 0.365 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:225 Resp: 1232

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.7	51.8	77.8

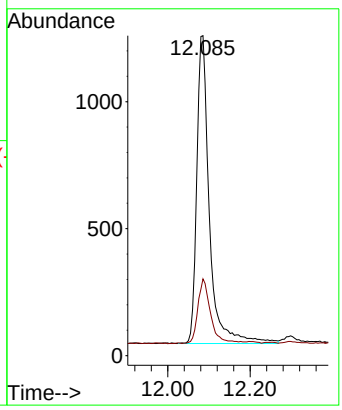




#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:152 Resp: 258

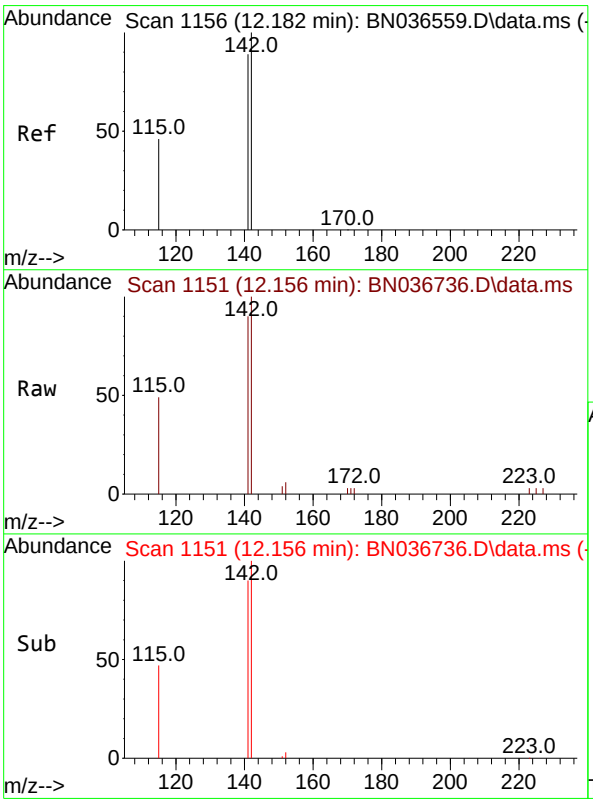
Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

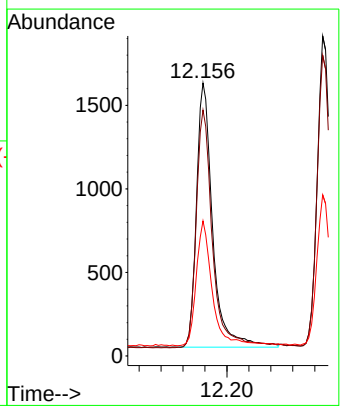
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

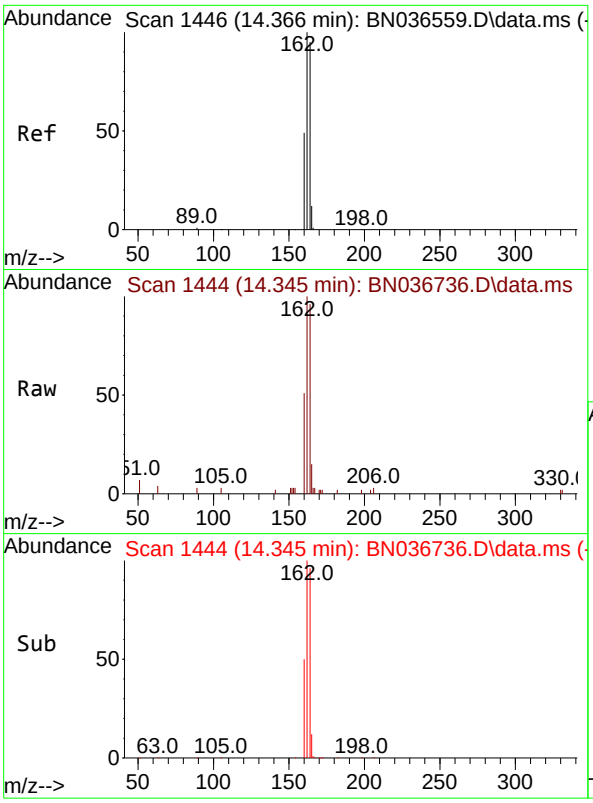


#12
2-Methylnaphthalene
Concen: 0.355 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:142 Resp: 3238

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.7	107.5
115	49.4	38.3	57.5

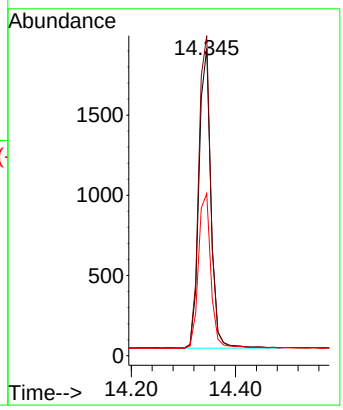




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:164 Resp: 298

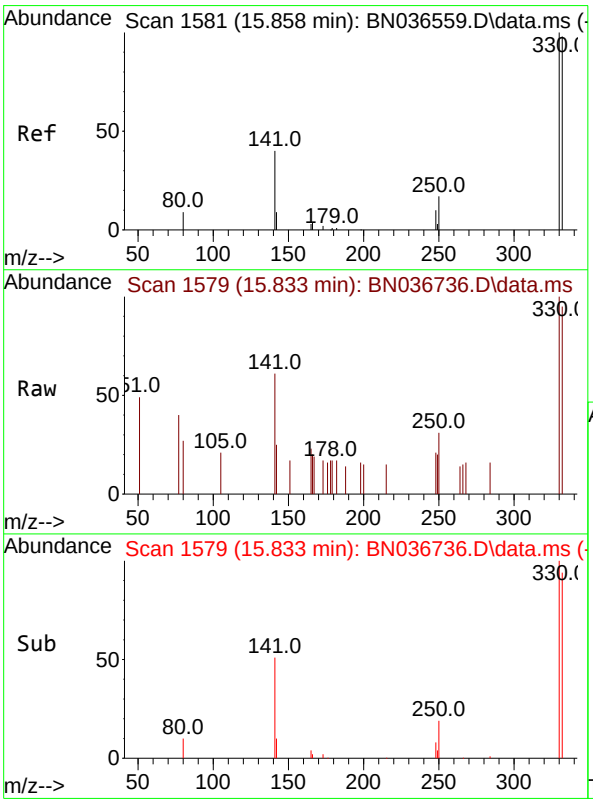
Ion	Ratio	Lower	Upper
164	100		
162	104.2	84.2	126.2
160	52.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

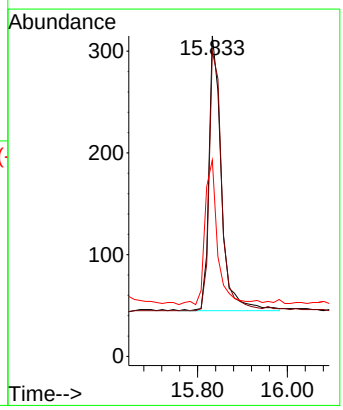
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

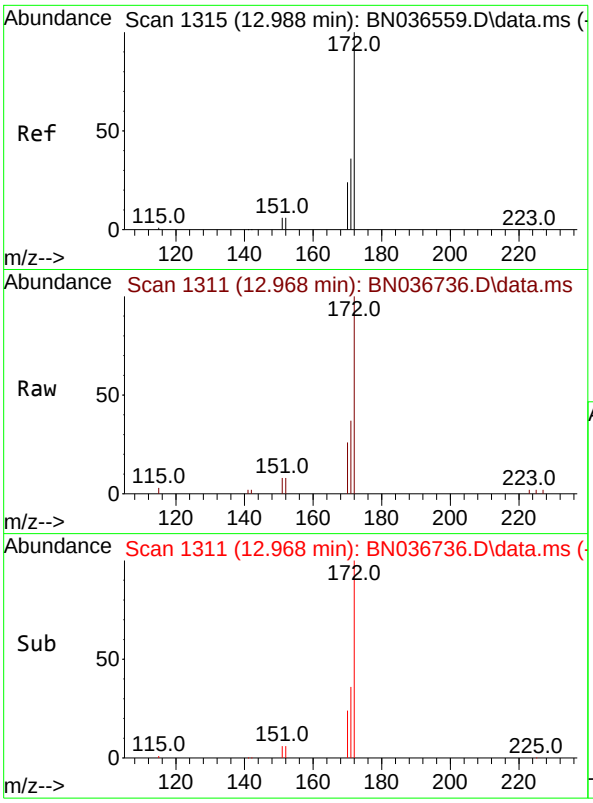


#14
2,4,6-Tribromophenol
Concen: 0.383 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:330 Resp: 518

Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.2	112.8
141	53.3	43.4	65.2

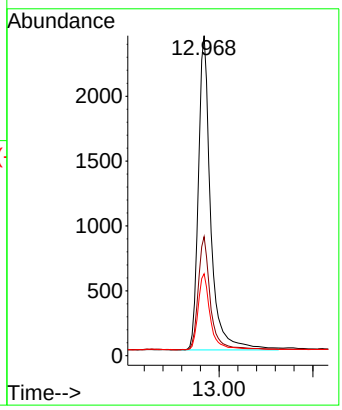




#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:172 Resp: 597

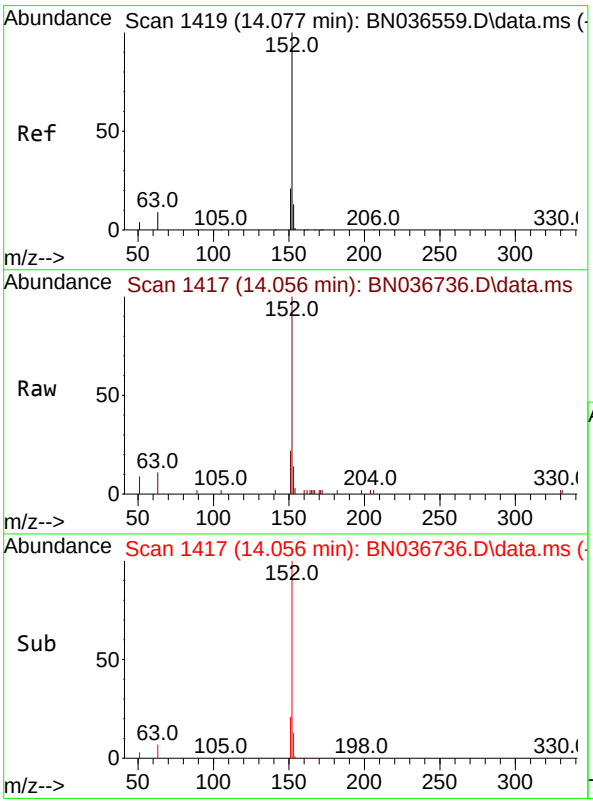
Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.6	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

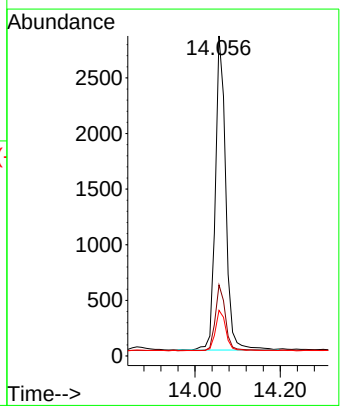
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

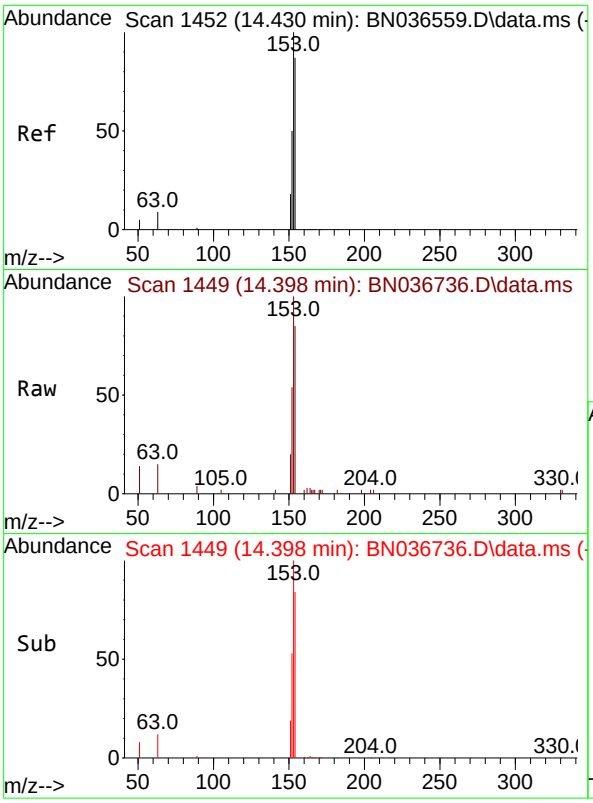


#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:152 Resp: 4782

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.0	10.6	15.8

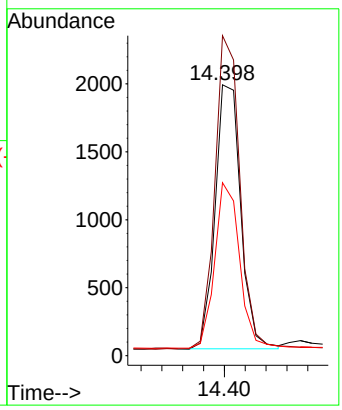




#17
Acenaphthene
Concen: 0.360 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:154 Resp: 331

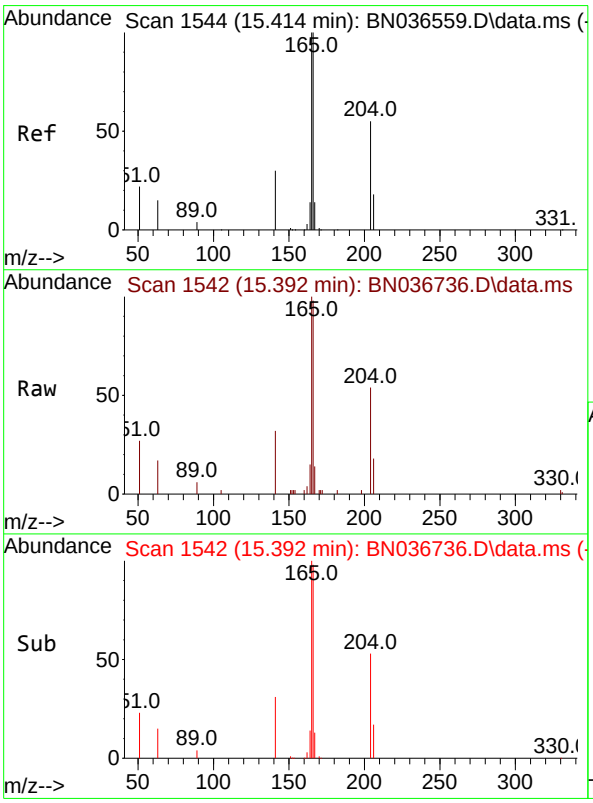
Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.1	141.1
152	62.4	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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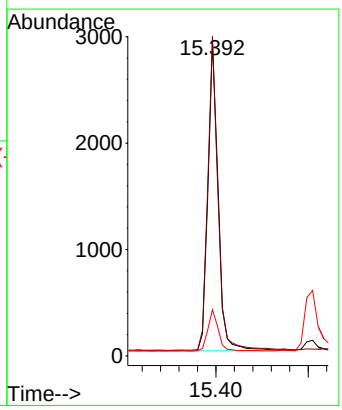
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

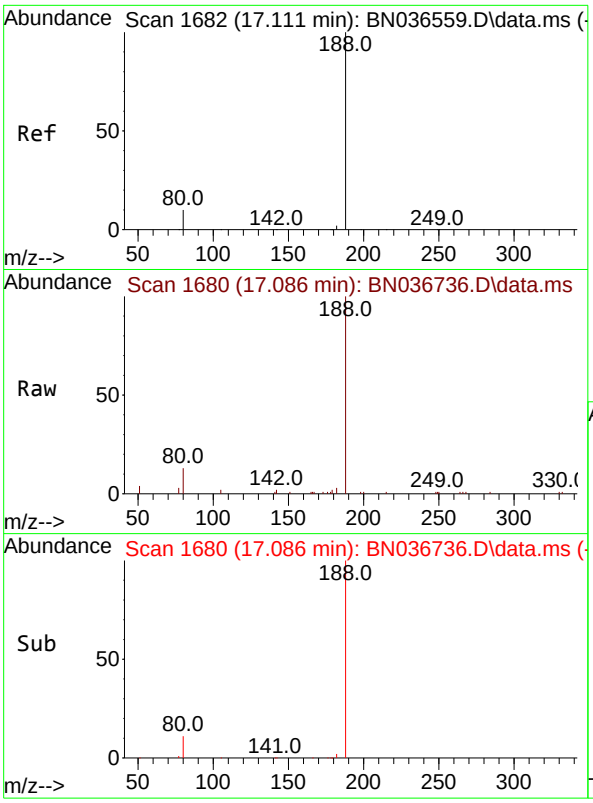


#18
Fluorene
Concen: 0.365 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:166 Resp: 4544

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.2	10.6	15.8

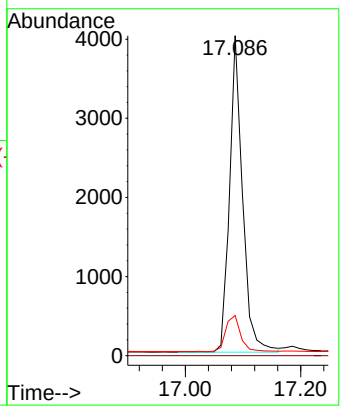




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:188 Resp: 627(

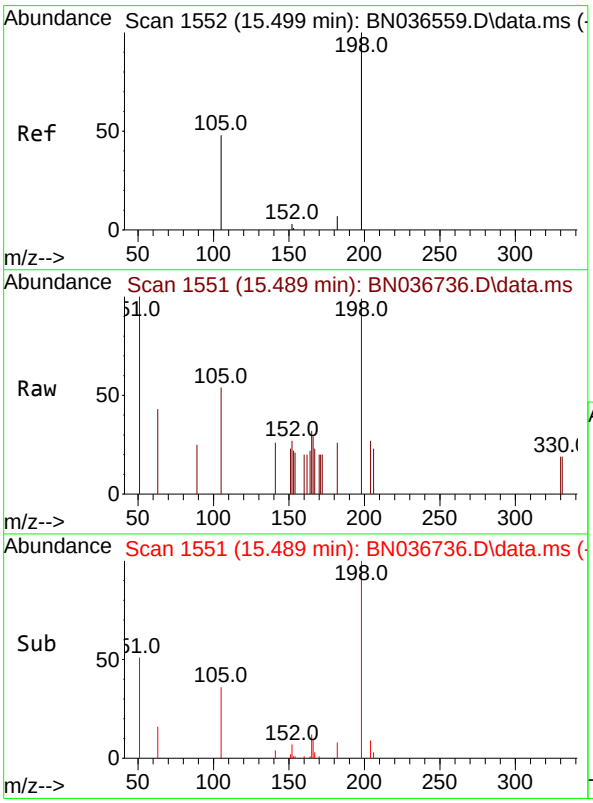
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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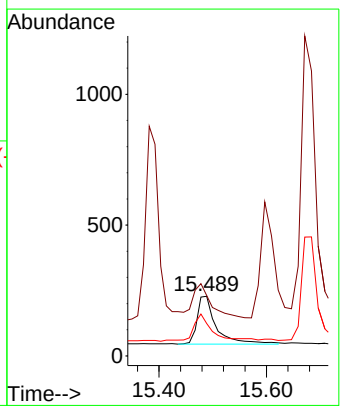
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

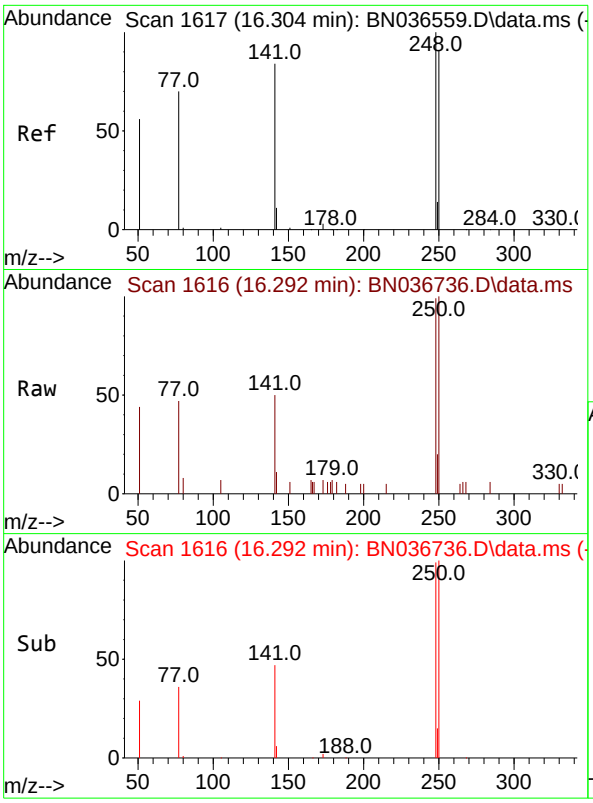


#20
4,6-Dinitro-2-methylphenol
Concen: 0.444 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:198 Resp: 478

Ion	Ratio	Lower	Upper
198	100		
51	101.3	107.9	161.9#
105	54.4	56.2	84.2#

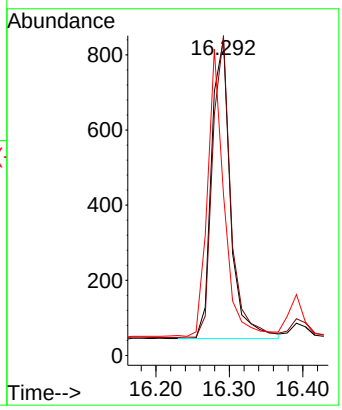




#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.292 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:248 Resp: 143

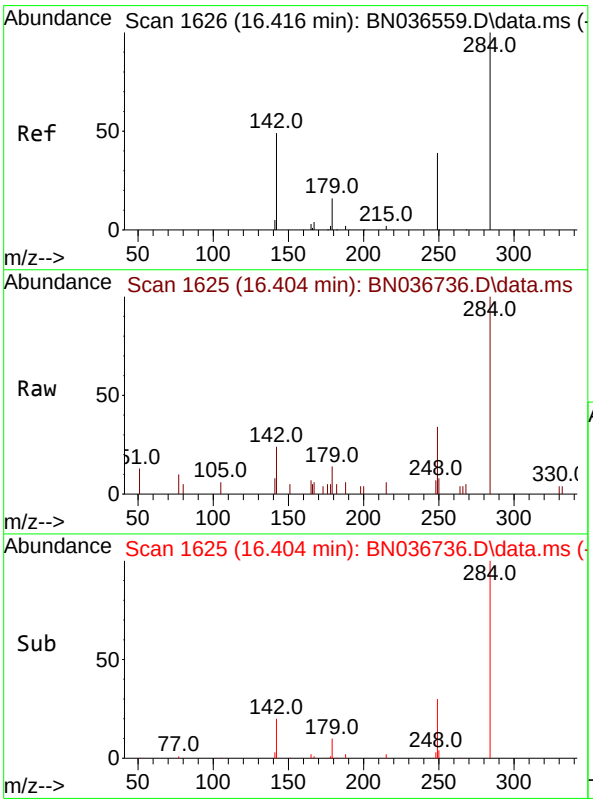
Ion	Ratio	Lower	Upper
248	100		
250	101.2	73.0	109.6
141	51.0	68.6	103.0#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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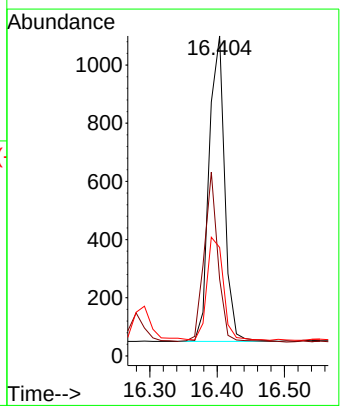
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

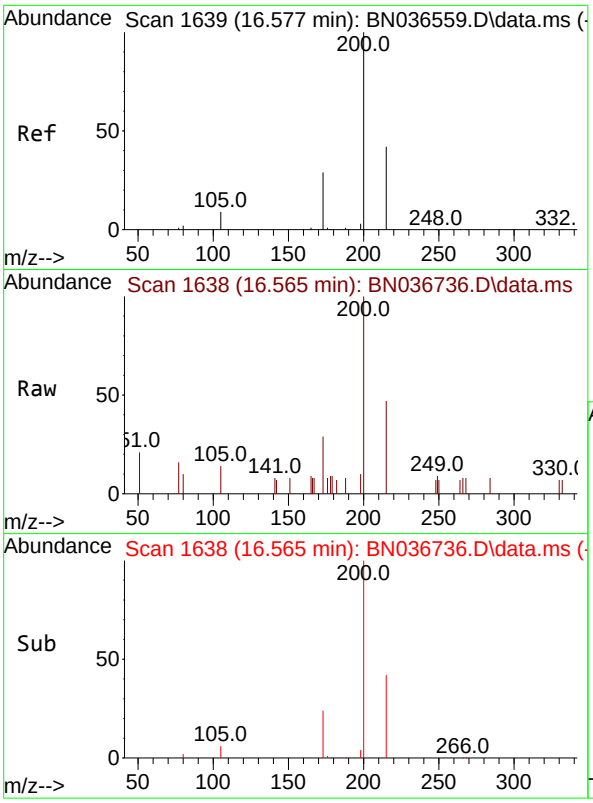


#22
Hexachlorobenzene
Concen: 0.354 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:284 Resp: 1682

Ion	Ratio	Lower	Upper
284	100		
142	50.2	37.0	55.4
249	35.7	28.1	42.1





#23
Atrazine
Concen: 0.387 ng
RT: 16.565 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

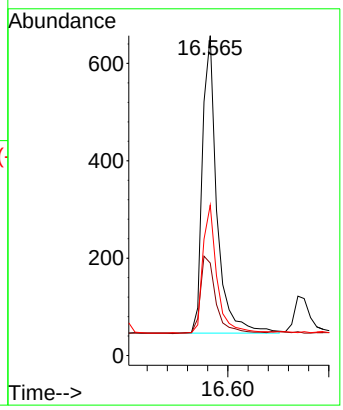
Tgt Ion:200 Resp: 122

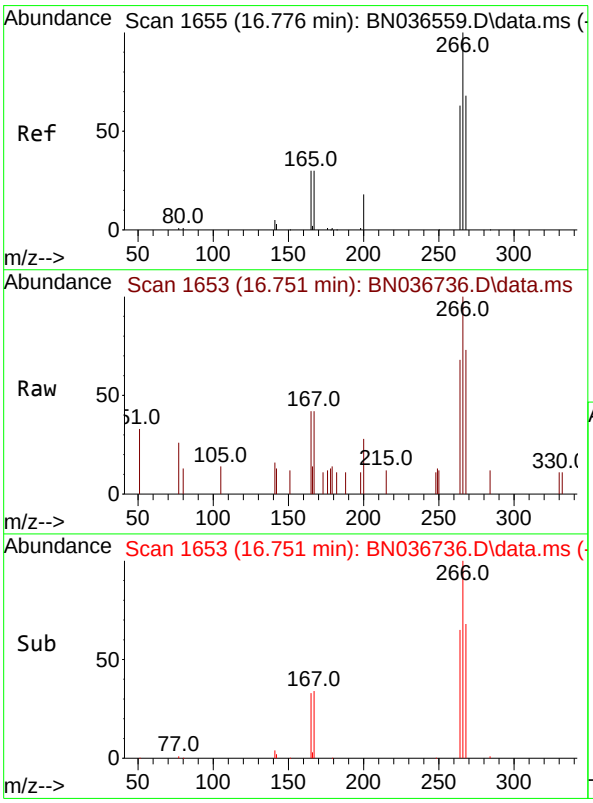
Ion	Ratio	Lower	Upper
200	100		
173	28.9	27.3	40.9
215	47.0	36.8	55.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

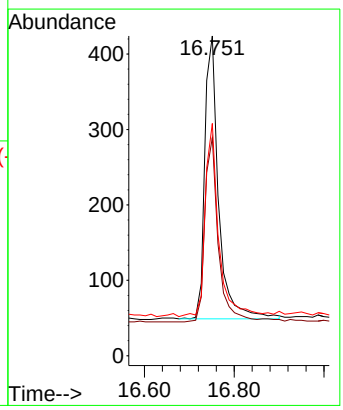


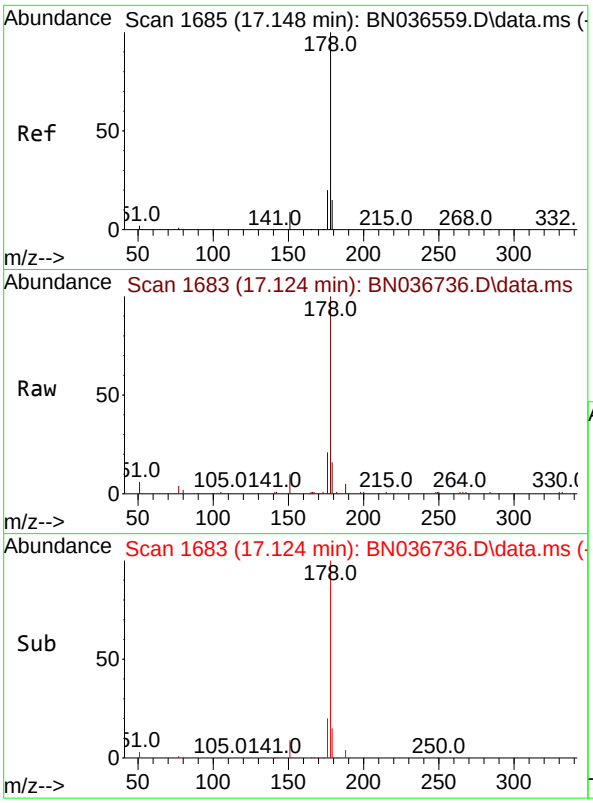


#24
Pentachlorophenol
Concen: 0.370 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:266 Resp: 801

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.6	74.4
268	66.5	50.9	76.3

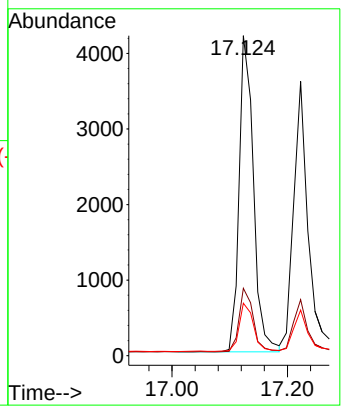




#25
Phenanthrene
Concen: 0.382 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:178 Resp: 719

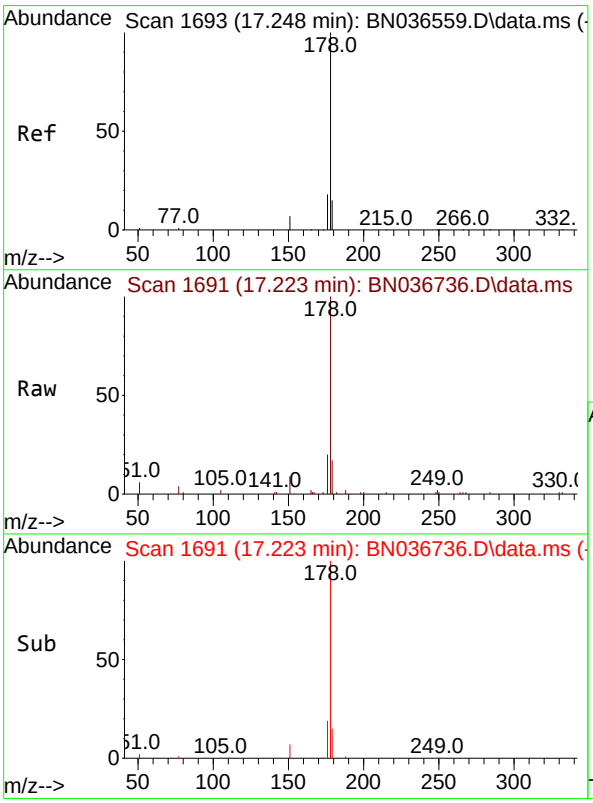
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

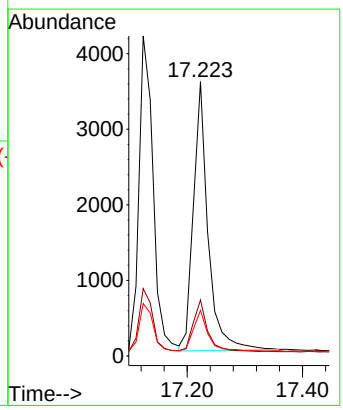
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

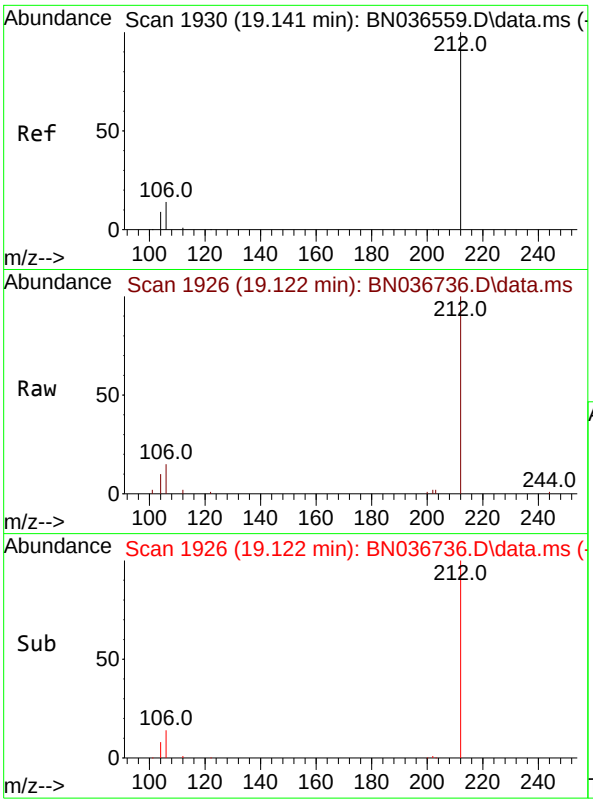


#26
Anthracene
Concen: 0.370 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:178 Resp: 6283

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.8	12.6	18.8

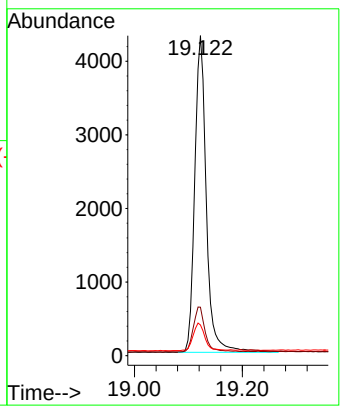




#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:212 Resp: 641

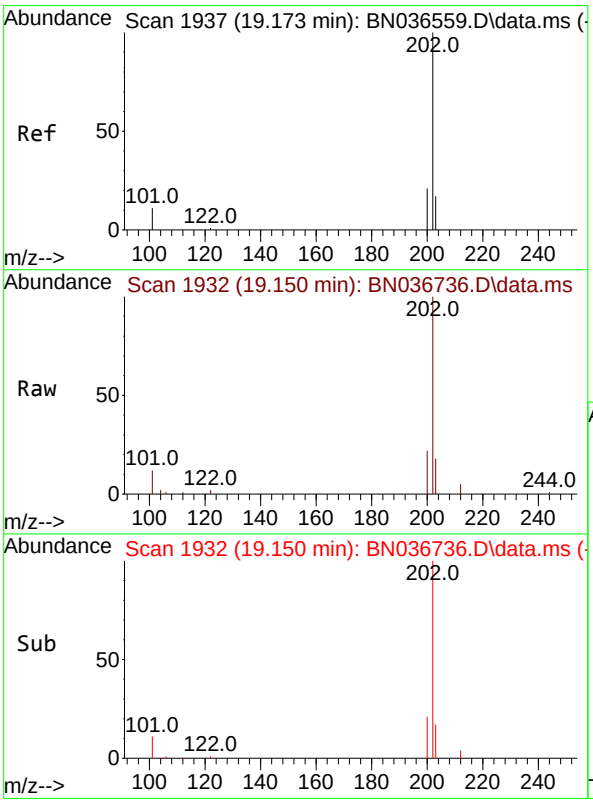
Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

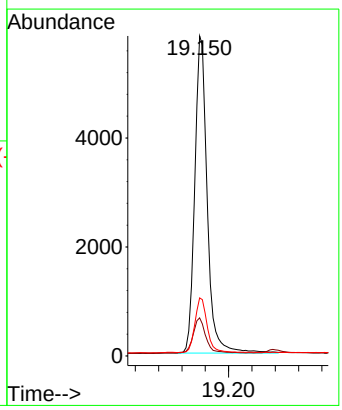
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

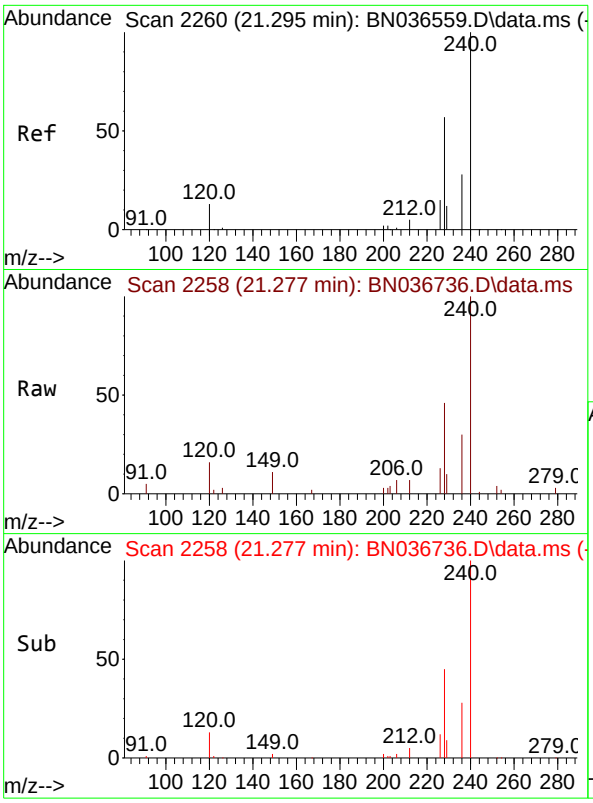


#28
Fluoranthene
Concen: 0.407 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:202 Resp: 8617

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3

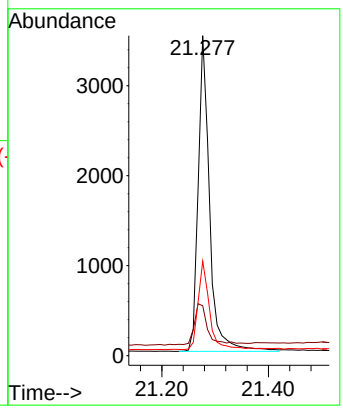




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:240 Resp: 521

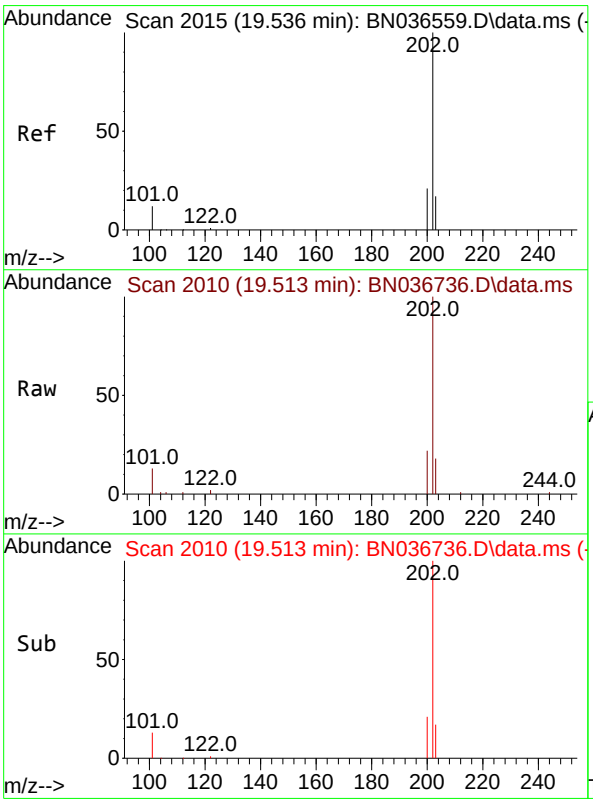
Ion	Ratio	Lower	Upper
240	100		
120	15.6	14.6	22.0
236	29.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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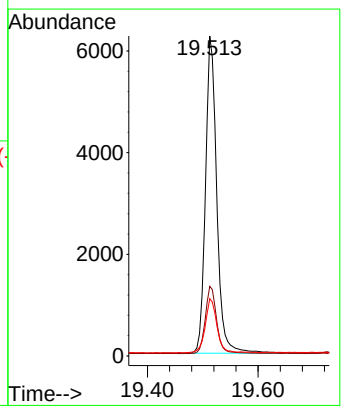
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

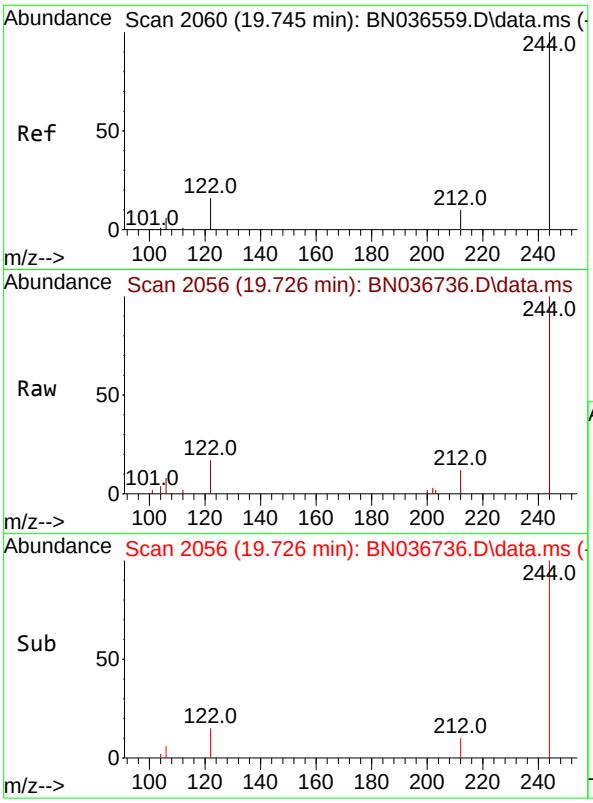


#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:202 Resp: 8868

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.4	14.1	21.1

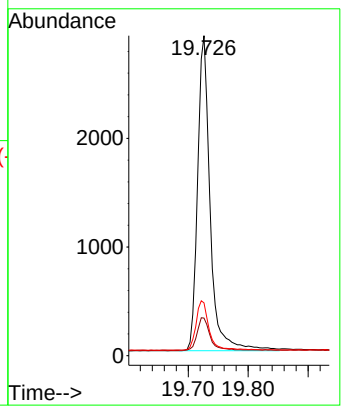




#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:244 Resp: 422

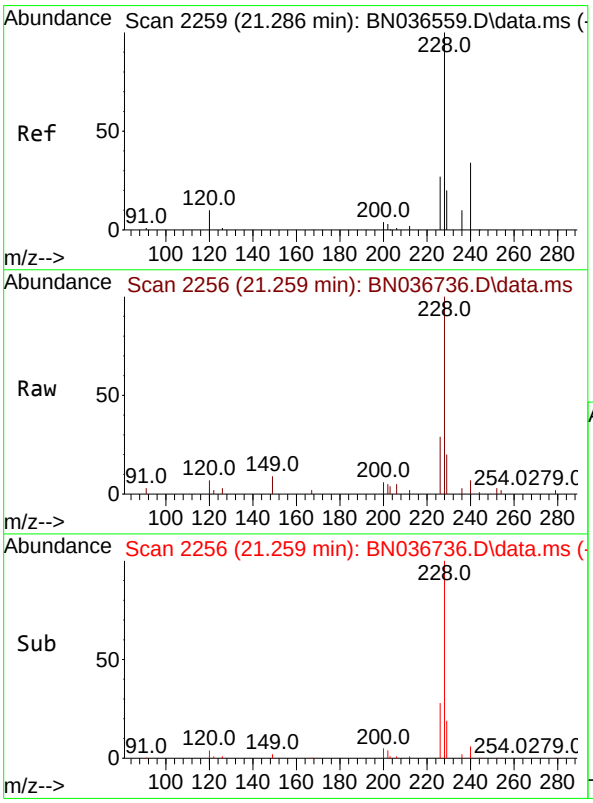
Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	16.5	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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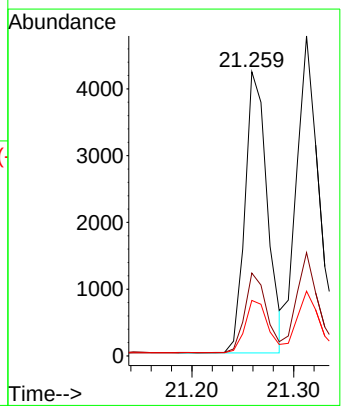
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

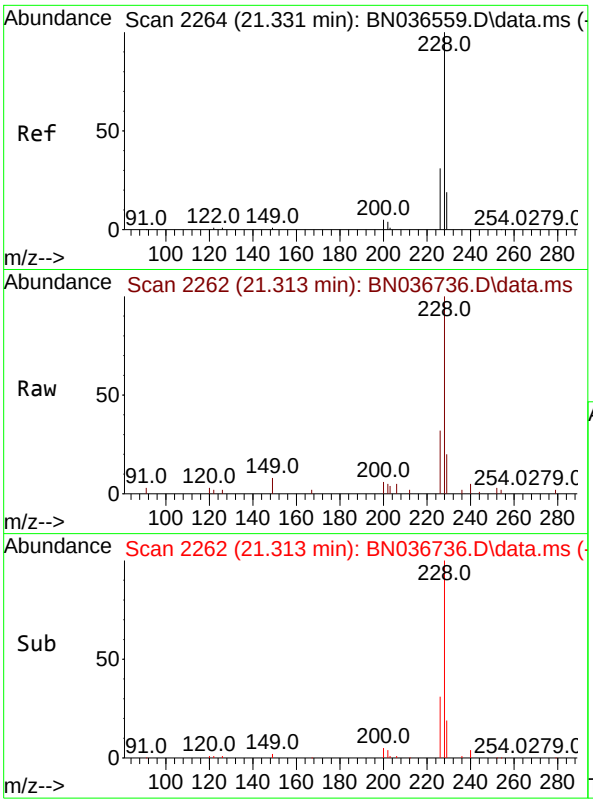


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:228 Resp: 6412

Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.5	33.7
229	19.5	16.6	25.0

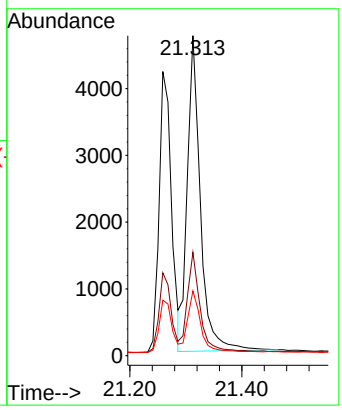




#33
Chrysene
Concen: 0.387 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:228 Resp: 767

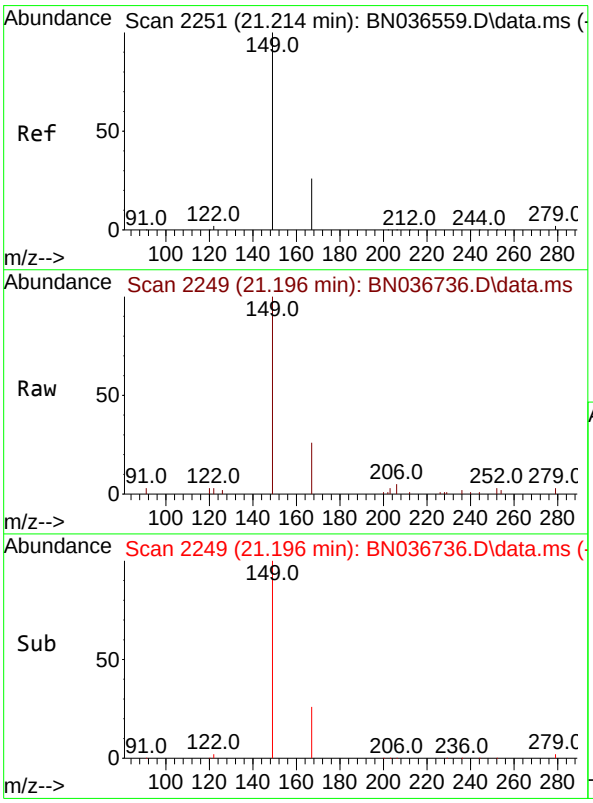
Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.3	37.9
229	20.2	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

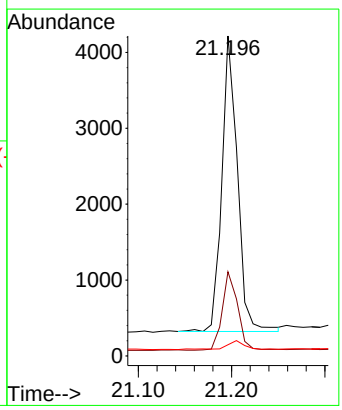
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

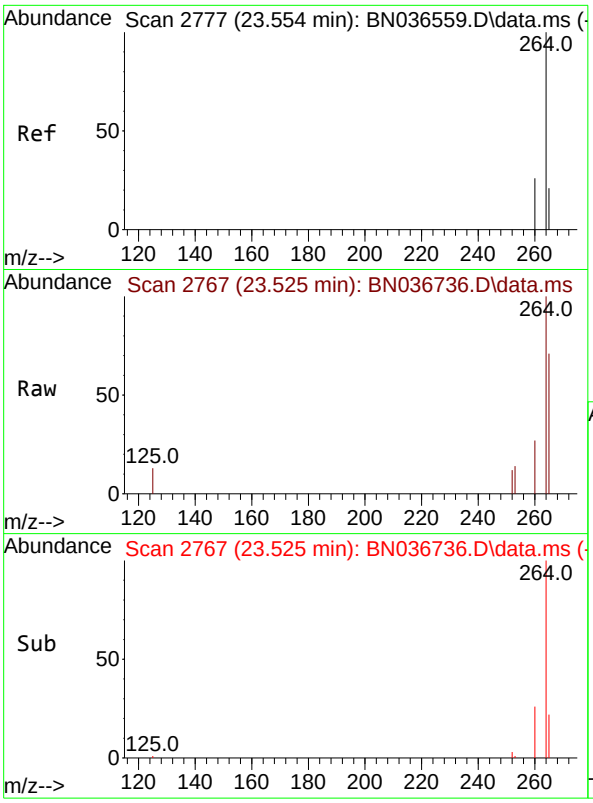


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.349 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:149 Resp: 4505

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.9	3.6	5.4#

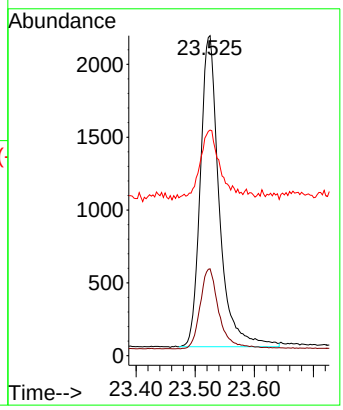




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:264 Resp: 473

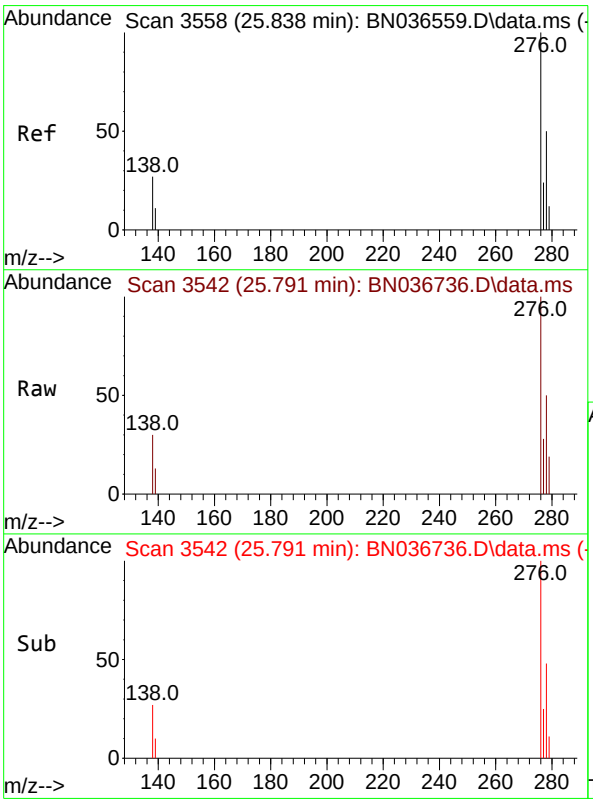
Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	70.5	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

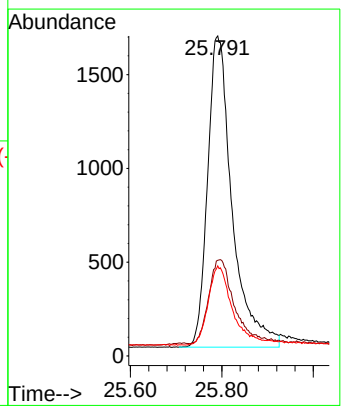
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

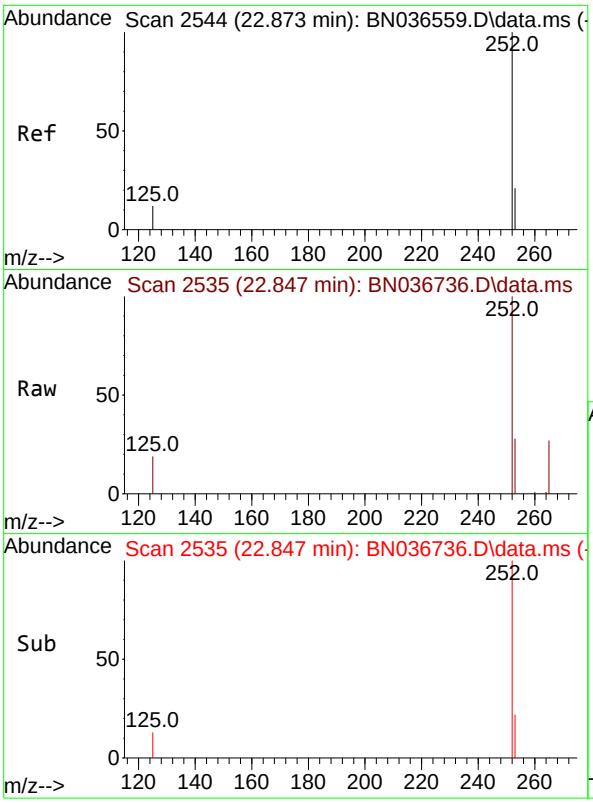


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.362 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.047 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:276 Resp: 6199

Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.4	35.2
277	24.9	20.0	30.0

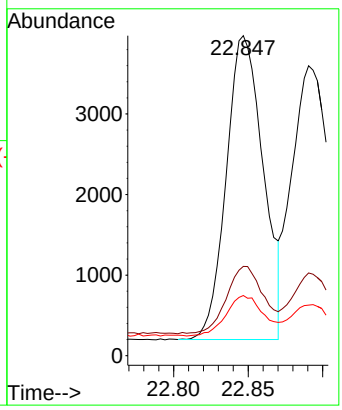




#37
Benzo(b)fluoranthene
Concen: 0.378 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:252 Resp: 651

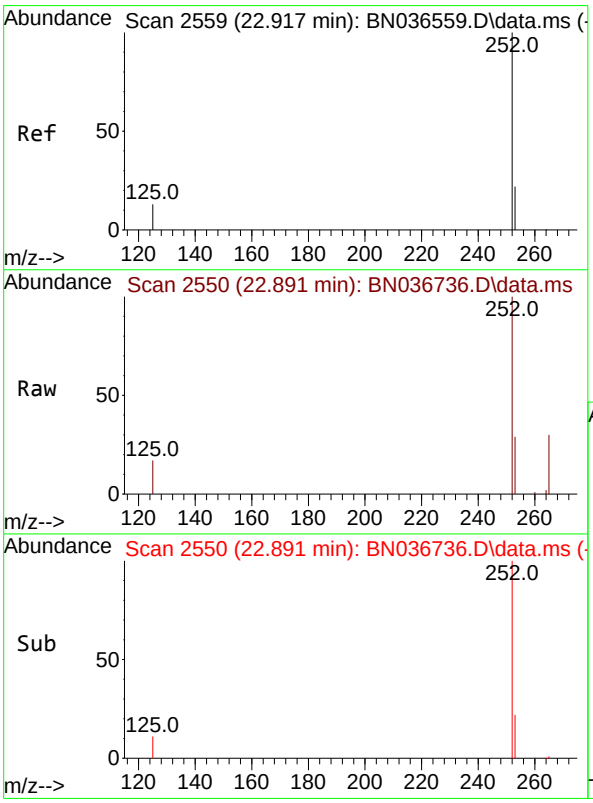
Ion	Ratio	Lower	Upper
252	100		
253	27.9	23.9	35.9
125	18.8	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

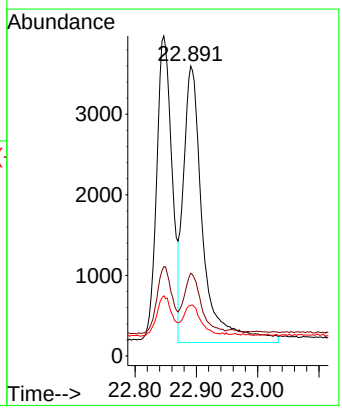
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

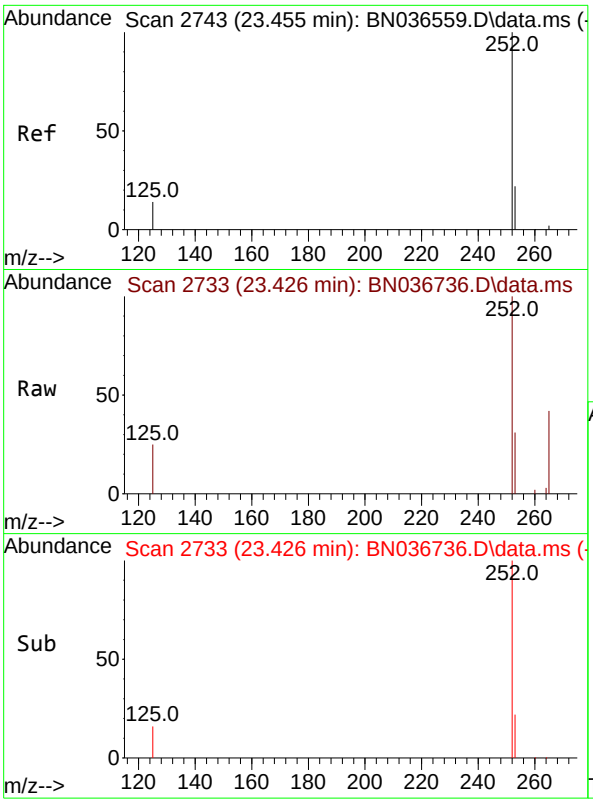


#38
Benzo(k)fluoranthene
Concen: 0.419 ng m
RT: 22.891 min Scan# 2550
Delta R.T. -0.026 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:252 Resp: 7579

Ion	Ratio	Lower	Upper
252	100		
253	28.5	24.6	36.8
125	17.5	17.8	26.8#

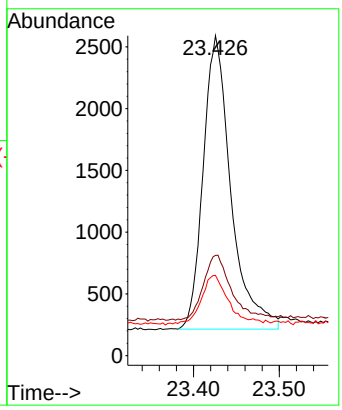




#39
Benzo(a)pyrene
Concen: 0.368 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:252 Resp: 533

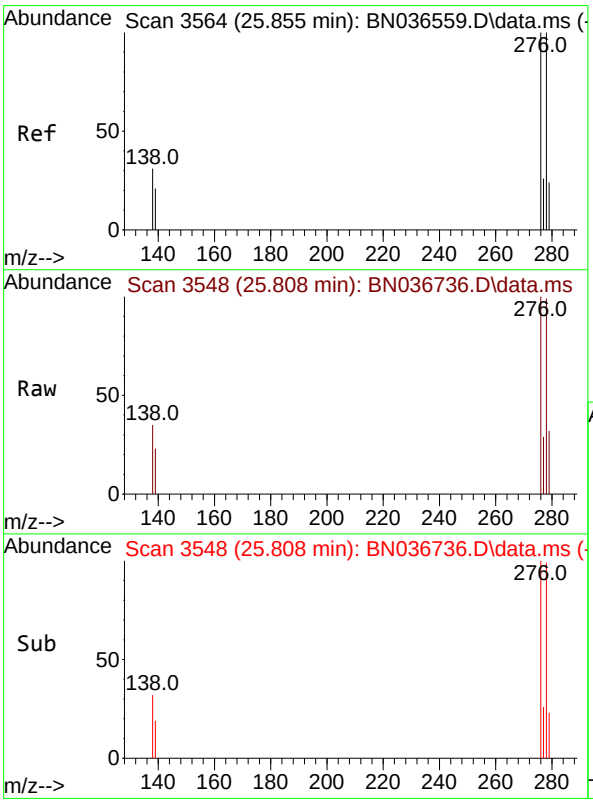
Ion	Ratio	Lower	Upper
252	100		
253	31.3	27.8	41.8
125	25.1	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

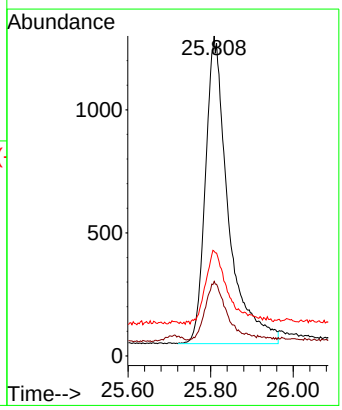
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

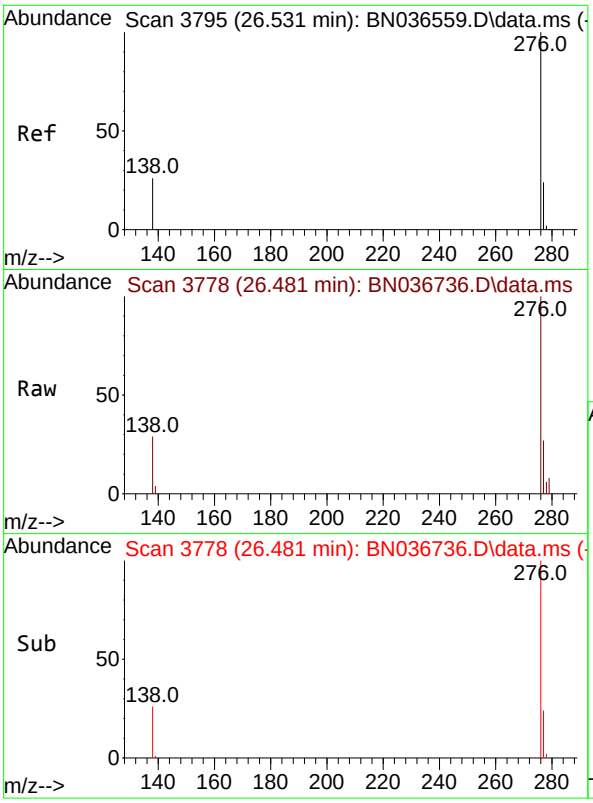


#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 25.808 min Scan# 3548
Delta R.T. -0.047 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:278 Resp: 4803

Ion	Ratio	Lower	Upper
278	100		
139	23.3	20.8	31.2
279	32.7	28.8	43.2

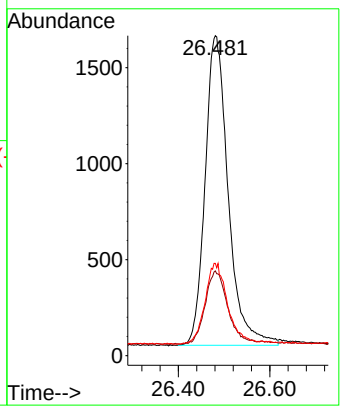




#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:276 Resp: 566

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	28.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 14:28:04 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	90	-0.02
2		1,4-Dioxane	0.444	0.491	-10.6	89	-0.01
3		n-Nitrosodimethylamine	0.898	0.846	5.8	82	0.00
4	S	2-Fluorophenol	0.932	0.868	6.9	80	-0.02
5	S	Phenol-d6	1.152	1.008	12.5	81	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.046	12.1	80	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	96	-0.02
8	S	Nitrobenzene-d5	0.435	0.361	17.0	83	-0.02
9		Naphthalene	1.177	1.050	10.8	83	-0.03
10		Hexachlorobutadiene	0.277	0.253	8.7	82	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.530	10.9	84	-0.03
12		2-Methylnaphthalene	0.749	0.664	11.3	83	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	98	-0.02
14	S	2,4,6-Tribromophenol	0.182	0.174	4.4	91	-0.02
15	S	2-Fluorobiphenyl	2.327	2.004	13.9	82	-0.02
16		Acenaphthylene	1.888	1.605	15.0	82	-0.02
17		Acenaphthene	1.236	1.112	10.0	85	-0.03
18		Fluorene	1.672	1.525	8.8	85	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	105	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.076	11.6	103	-0.01
21		4-Bromophenyl-phenylether	0.251	0.228	9.2	87	-0.01
22		Hexachlorobenzene	0.303	0.268	11.6	83	-0.01
23		Atrazine	0.201	0.195	3.0	95	-0.01
24		Pentachlorophenol	0.138	0.128	7.2	98	-0.02
25		Phenanthrene	1.200	1.146	4.5	92	-0.02
26		Anthracene	1.083	1.001	7.6	91	-0.02
27	SURR	Fluoranthene-d10	1.025	1.022	0.3	96	-0.02
28		Fluoranthene	1.348	1.373	-1.9	99	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	127	-0.02
30		Pyrene	1.956	1.702	13.0	101	-0.02
31	S	Terphenyl-d14	0.958	0.810	15.4	100	-0.02
32		Benzo(a)anthracene	1.391	1.230	11.6	109	-0.03
33		Chrysene	1.520	1.472	3.2	116	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.865	12.6	105	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	134	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.308	9.4	113	-0.05
37		Benzo(b)fluoranthene	1.456	1.375	5.6	119	-0.03
38		Benzo(k)fluoranthene	1.527	1.599	-4.7	132	-0.03
39	C	Benzo(a)pyrene	1.226	1.126	8.2	116	-0.03
40		Dibenzo(a,h)anthracene	1.124	1.014	9.8	117	-0.05
41		Benzo(g,h,i)perylene	1.286	1.196	7.0	116	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 14:28:04 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	90	-0.02
2		1,4-Dioxane	0.400	0.442	-10.5	89	-0.01
3		n-Nitrosodimethylamine	0.400	0.377	5.8	82	0.00
4	S	2-Fluorophenol	0.400	0.373	6.8	80	-0.02
5	S	Phenol-d6	0.400	0.350	12.5	81	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.352	12.0	80	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	96	-0.02
8	S	Nitrobenzene-d5	0.400	0.332	17.0	83	-0.02
9		Naphthalene	0.400	0.357	10.8	83	-0.03
10		Hexachlorobutadiene	0.400	0.365	8.8	82	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.356	11.0	84	-0.03
12		2-Methylnaphthalene	0.400	0.355	11.3	83	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	98	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.383	4.3	91	-0.02
15	S	2-Fluorobiphenyl	0.400	0.344	14.0	82	-0.02
16		Acenaphthylene	0.400	0.340	15.0	82	-0.02
17		Acenaphthene	0.400	0.360	10.0	85	-0.03
18		Fluorene	0.400	0.365	8.8	85	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	105	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.444	-11.0	103	-0.01
21		4-Bromophenyl-phenylether	0.400	0.364	9.0	87	-0.01
22		Hexachlorobenzene	0.400	0.354	11.5	83	-0.01
23		Atrazine	0.400	0.387	3.3	95	-0.01
24		Pentachlorophenol	0.400	0.370	7.5	98	-0.02
25		Phenanthrene	0.400	0.382	4.5	92	-0.02
26		Anthracene	0.400	0.370	7.5	91	-0.02
27	SURR	Fluoranthene-d10	0.400	0.399	0.3	96	-0.02
28		Fluoranthene	0.400	0.407	-1.7	99	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	127	-0.02
30		Pyrene	0.400	0.348	13.0	101	-0.02
31	S	Terphenyl-d14	0.400	0.338	15.5	100	-0.02
32		Benzo(a)anthracene	0.400	0.354	11.5	109	-0.03
33		Chrysene	0.400	0.387	3.3	116	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.349	12.8	105	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	134	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.362	9.5	113	-0.05
37		Benzo(b)fluoranthene	0.400	0.378	5.5	119	-0.03
38		Benzo(k)fluoranthene	0.400	0.419	-4.7	132	-0.03
39	C	Benzo(a)pyrene	0.400	0.368	8.0	116	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.361	9.8	117	-0.05
41		Benzo(g,h,i)perylene	0.400	0.372	7.0	116	-0.05

(#) = 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: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG No.: Q1608

Instrument ID: BNA_N Calibration Date/Time: 03/27/2025 15:38

Lab File ID: BN036738.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	0.535		-10.1	20.0
Fluoranthene-d10	1.025	1.046		2.0	20.0
2-Fluorophenol	0.932	0.850		-8.8	20.0
Phenol-d6	1.152	1.009		-12.4	20.0
Nitrobenzene-d5	0.435	0.358		-17.7	20.0
2-Fluorobiphenyl	2.327	2.012		-13.5	20.0
2,4,6-Tribromophenol	0.182	0.176		-3.3	20.0
Terphenyl-d14	0.958	0.790		-17.5	20.0
1,4-Dioxane	0.444	0.473		6.5	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\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 16:33:11 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 :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1523	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3803	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2348	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4989	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4385	0.400	ng	-0.02
35) Perylene-d12	23.525	264	4045	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1294	0.365	ng	-0.02
5) Phenol-d6	6.872	99	1536	0.350	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1363	0.329	ng	-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2034	0.360	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	414	0.389	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	4725	0.346	ng	-0.02
27) Fluoranthene-d10	19.122	212	5220	0.408	ng	-0.02
31) Terphenyl-d14	19.726	244	3465	0.330	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	721	0.427	ng	93
3) n-Nitrosodimethylamine	3.535	42	1301	0.381	ng	# 99
6) bis(2-Chloroethyl)ether	7.132	93	1533	0.338	ng	95
9) Naphthalene	10.541	128	4045	0.362	ng	98
10) Hexachlorobutadiene	10.829	225	955	0.363	ng	# 98
12) 2-Methylnaphthalene	12.156	142	2514	0.353	ng	96
16) Acenaphthylene	14.056	152	3861	0.348	ng	100
17) Acenaphthene	14.398	154	2582	0.356	ng	99
18) Fluorene	15.392	166	3631	0.370	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	370	0.436	ng	81
21) 4-Bromophenyl-phenylether	16.292	248	1147	0.367	ng	# 80
22) Hexachlorobenzene	16.404	284	1358	0.360	ng	97
23) Atrazine	16.565	200	991	0.395	ng	95
24) Pentachlorophenol	16.751	266	662	0.385	ng	95
25) Phenanthrene	17.124	178	5704	0.381	ng	100
26) Anthracene	17.223	178	4989	0.369	ng	99
28) Fluoranthene	19.150	202	6959	0.414	ng	99
30) Pyrene	19.517	202	7305	0.341	ng	100
32) Benzo(a)anthracene	21.259	228	5558	0.365	ng	98
33) Chrysene	21.313	228	6163	0.370	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3633	0.335	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.791	276	5346	0.366	ng	98
37) Benzo(b)fluoranthene	22.850	252	5508	0.374	ng	97
38) Benzo(k)fluoranthene	22.893	252	5730m	0.371	ng	
39) Benzo(a)pyrene	23.426	252	4841	0.391	ng	96
40) Dibenzo(a,h)anthracene	25.814	278	4114	0.362	ng	95
41) Benzo(g,h,i)perylene	26.481	276	4859	0.374	ng	97

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

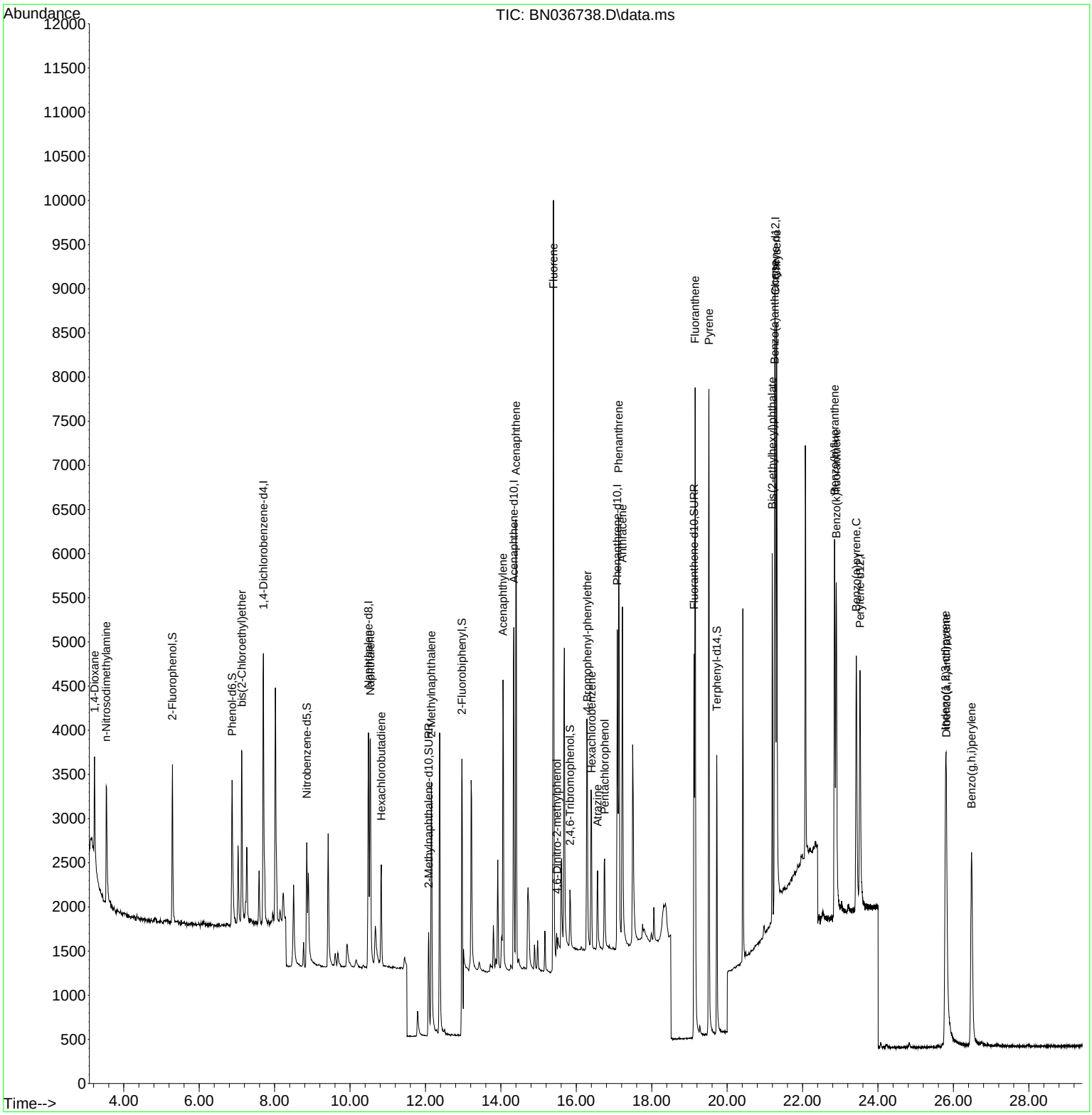
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

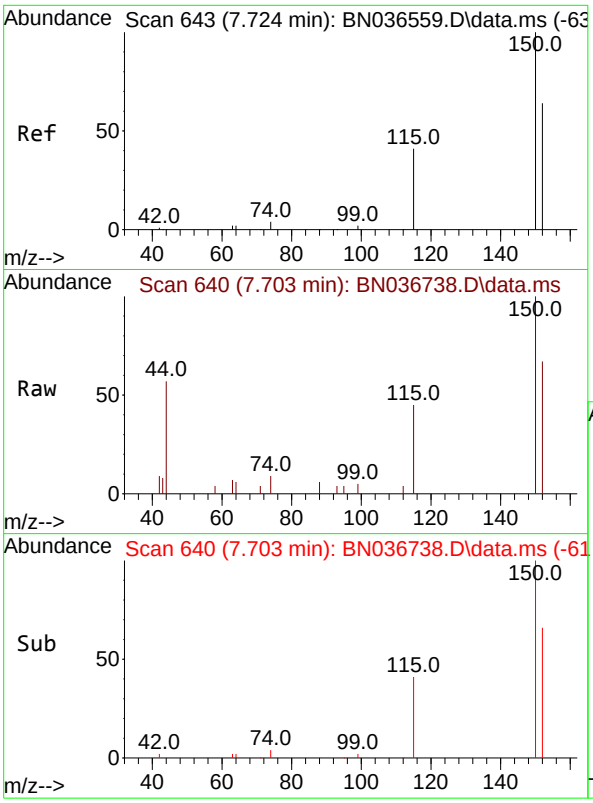
Quant Time: Mar 27 16:33:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

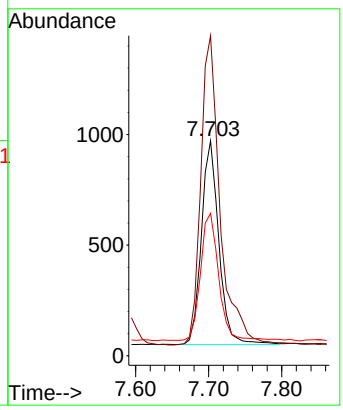




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:152 Resp: 152

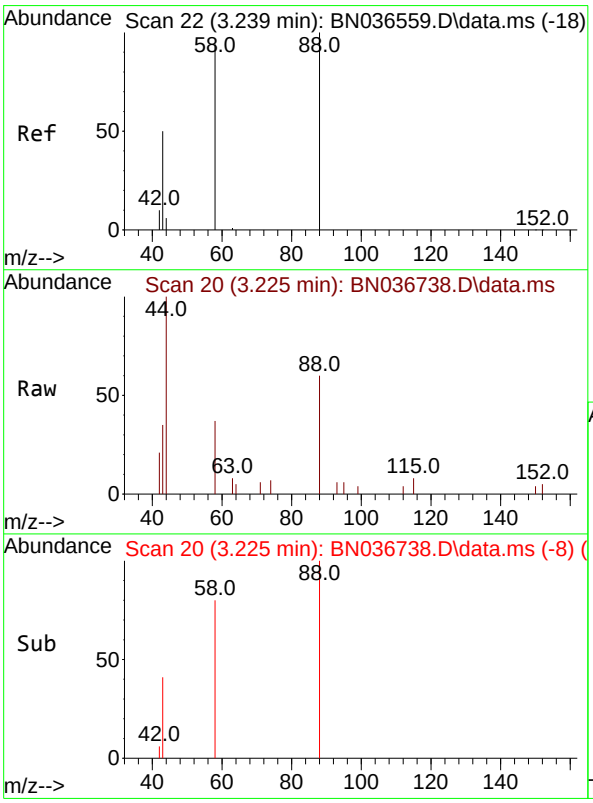
Ion	Ratio	Lower	Upper
152	100		
150	148.9	123.7	185.5
115	66.3	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

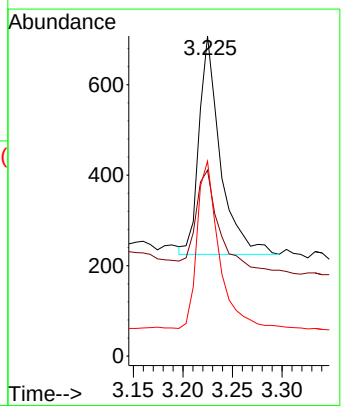
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

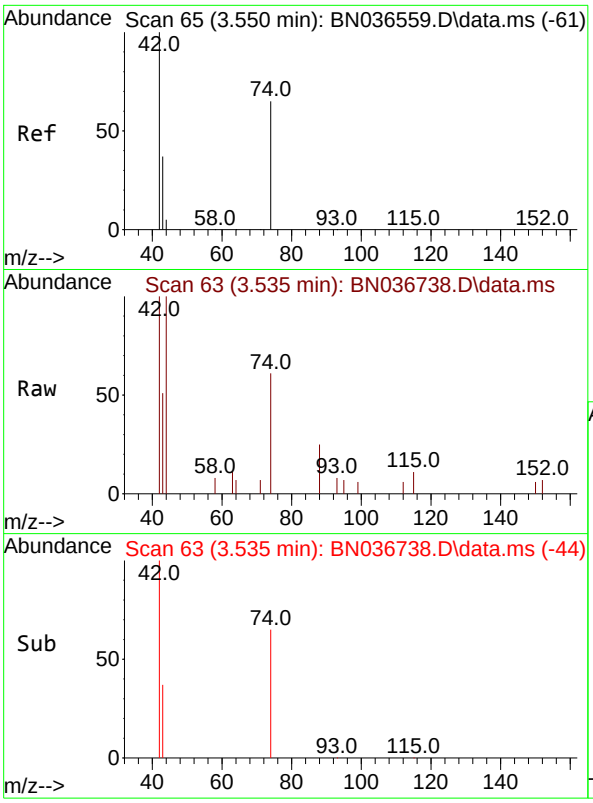


#2
1,4-Dioxane
Concen: 0.427 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 88 Resp: 721

Ion	Ratio	Lower	Upper
88	100		
43	52.3	37.8	56.8
58	78.6	67.4	101.2

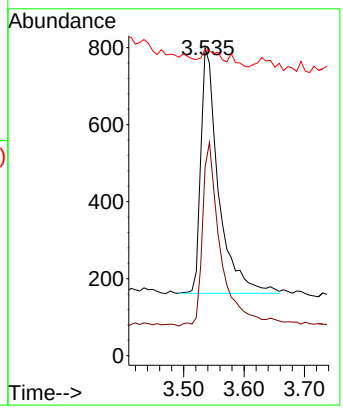




#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 42 Resp: 130

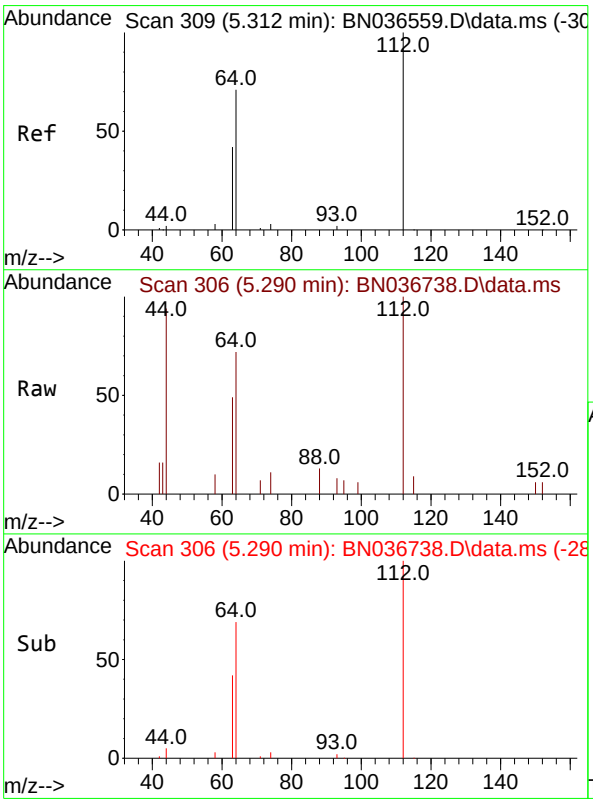
Ion	Ratio	Lower	Upper
42	100		
74	75.9	60.6	90.8
44	4.1	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

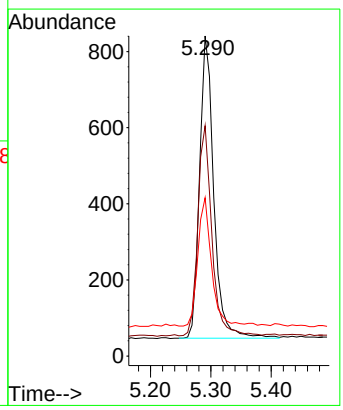
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

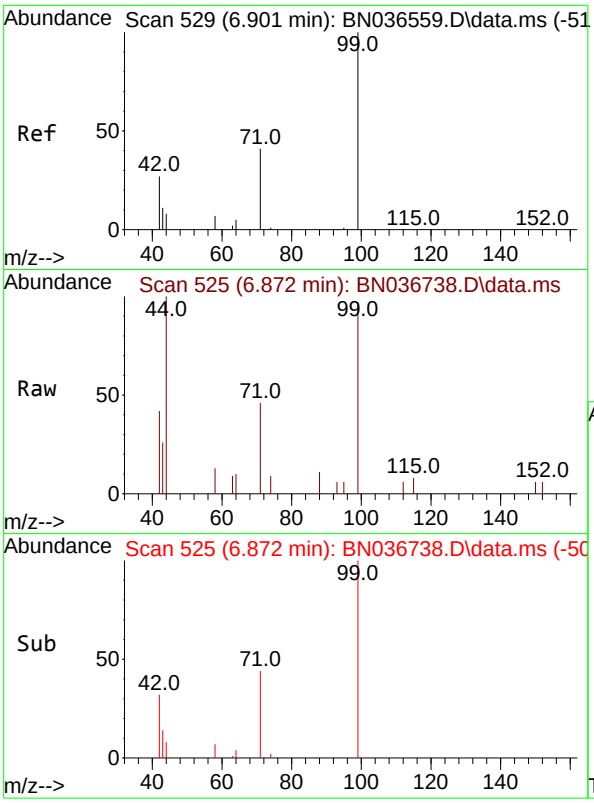


#4
2-Fluorophenol
Concen: 0.365 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:112 Resp: 1294

Ion	Ratio	Lower	Upper
112	100		
64	69.9	53.1	79.7
63	40.8	31.8	47.8

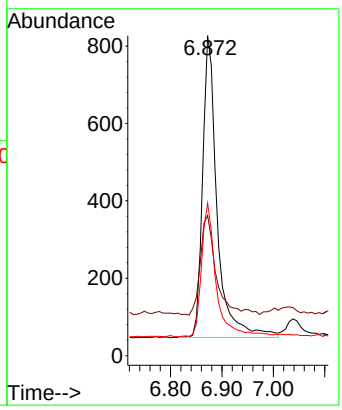




#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 99 Resp: 153

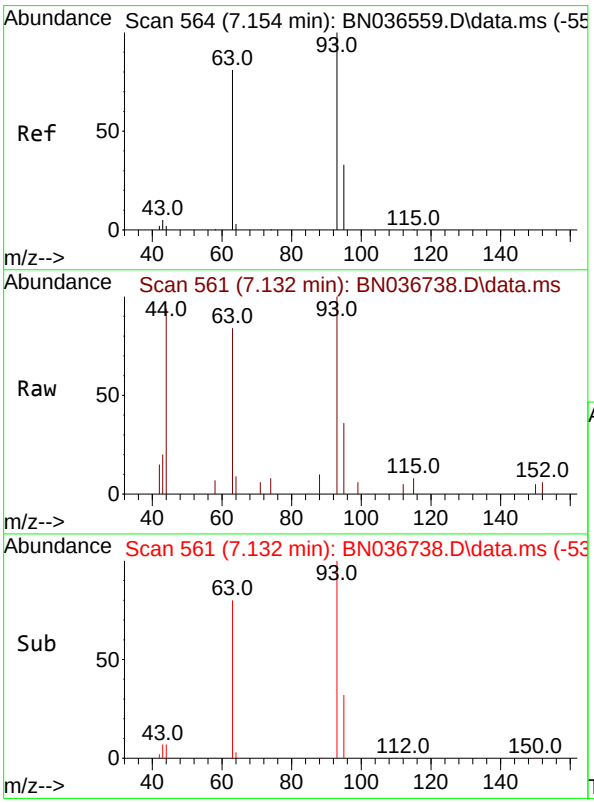
Ion	Ratio	Lower	Upper
99	100		
42	35.2	26.5	39.7
71	44.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

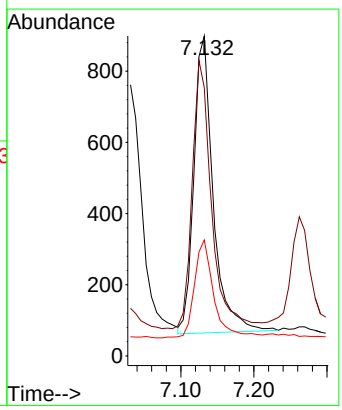
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

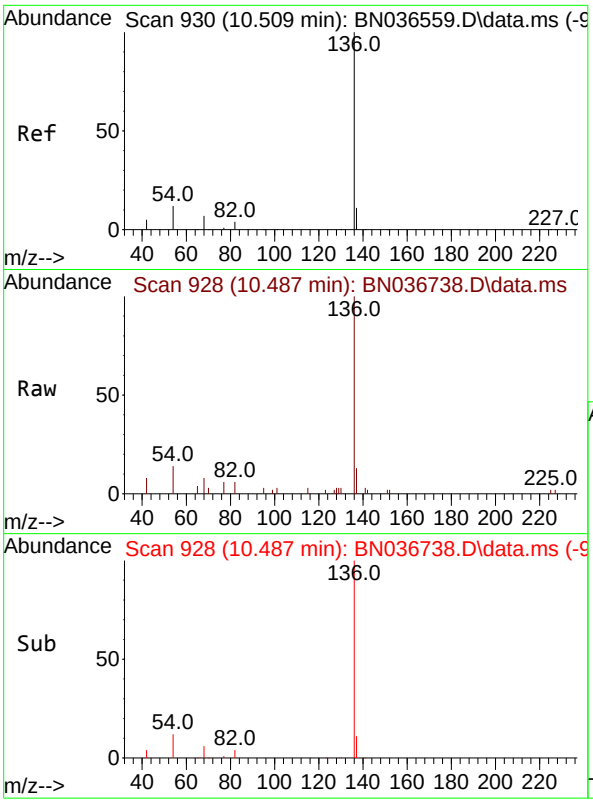


#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.022 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 93 Resp: 1533

Ion	Ratio	Lower	Upper
93	100		
63	90.0	67.7	101.5
95	33.1	25.6	38.4

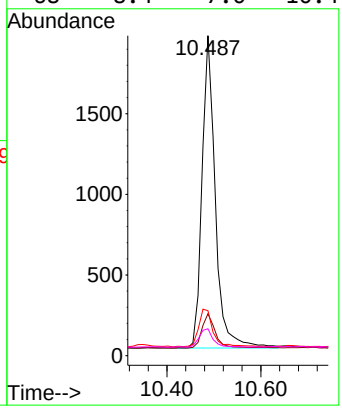




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:136 Resp: 380

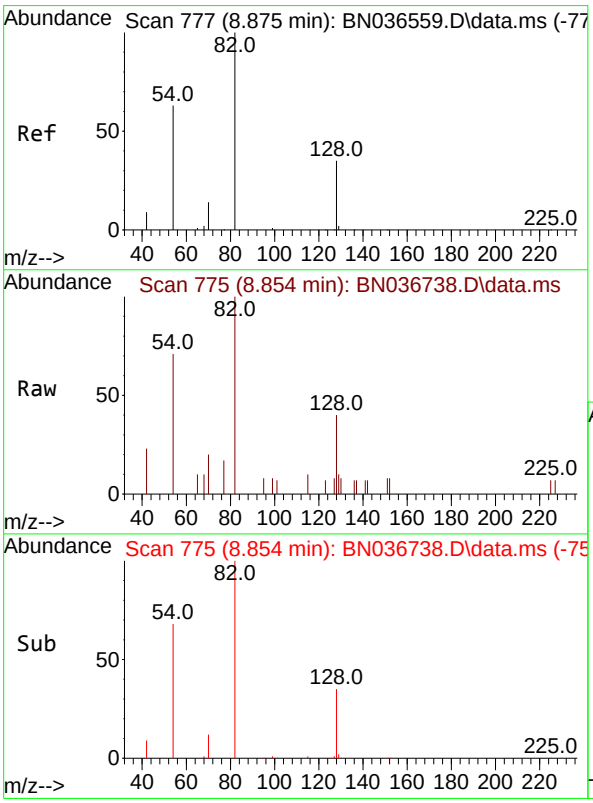
Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	14.0	11.5	17.3
68	8.4	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

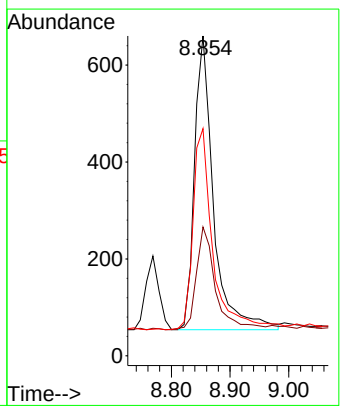
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

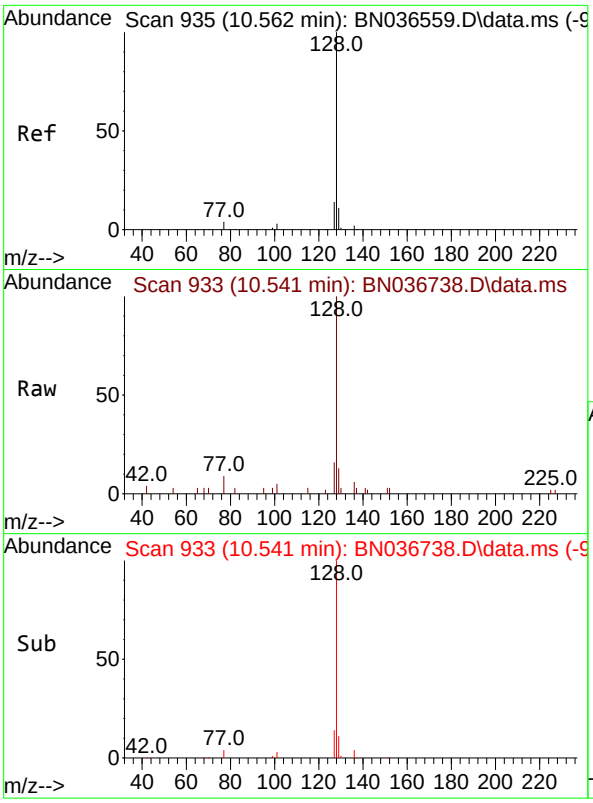


#8
Nitrobenzene-d5
Concen: 0.329 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 82 Resp: 1363

Ion	Ratio	Lower	Upper
82	100		
128	40.3	30.6	45.8
54	71.1	52.2	78.4

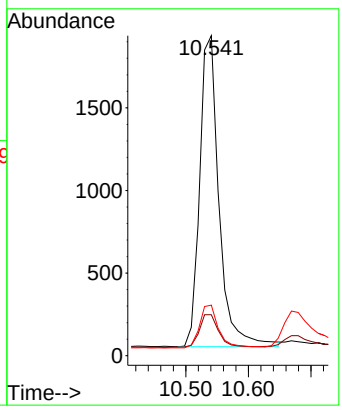




#9
Naphthalene
Concen: 0.362 ng
RT: 10.541 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:128 Resp: 404

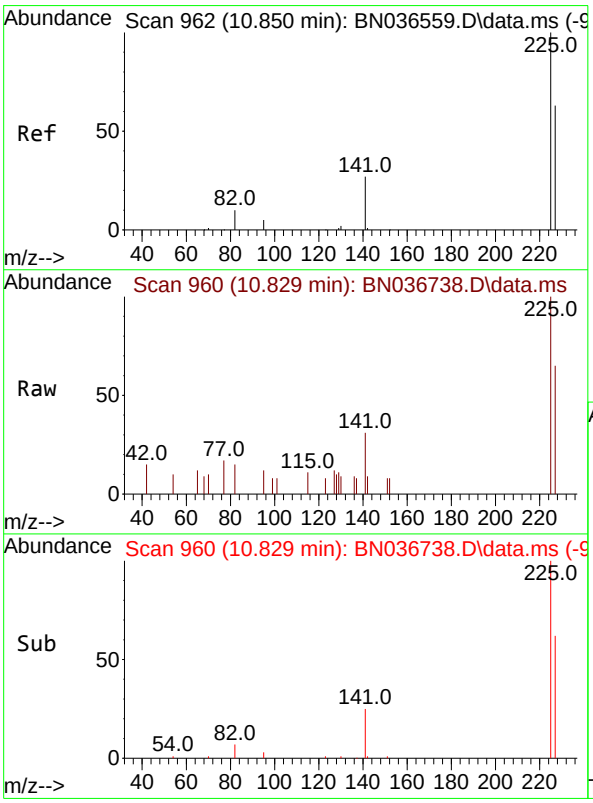
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.8	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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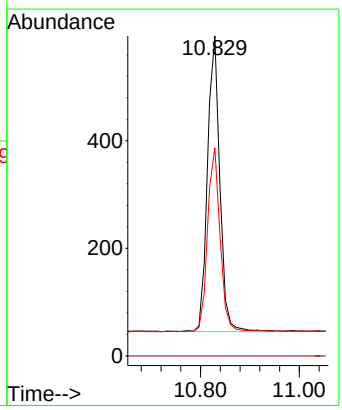
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

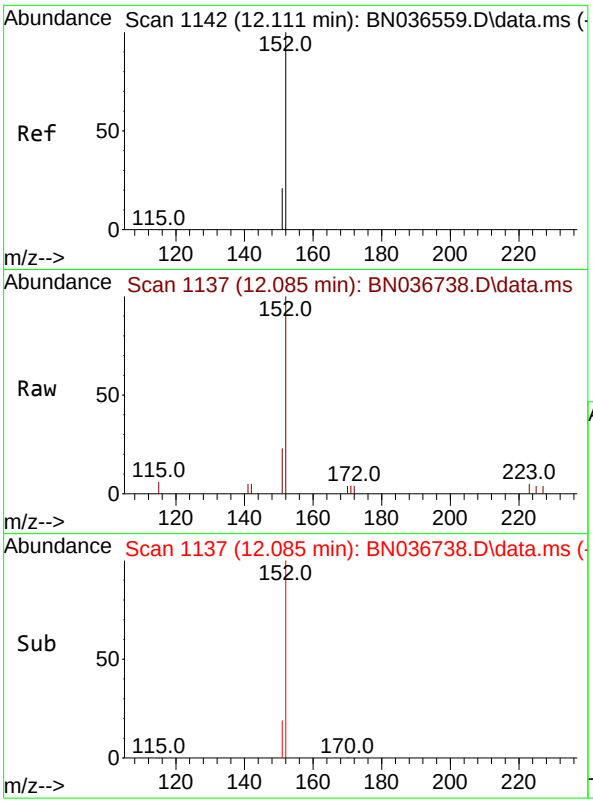


#10
Hexachlorobutadiene
Concen: 0.363 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:225 Resp: 955

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

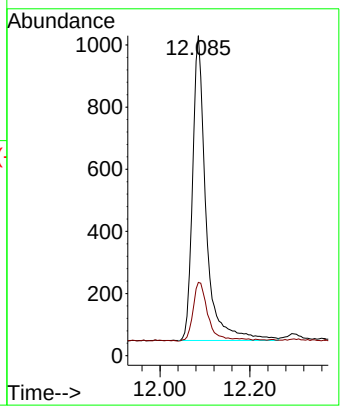
Tgt Ion:152 Resp: 203

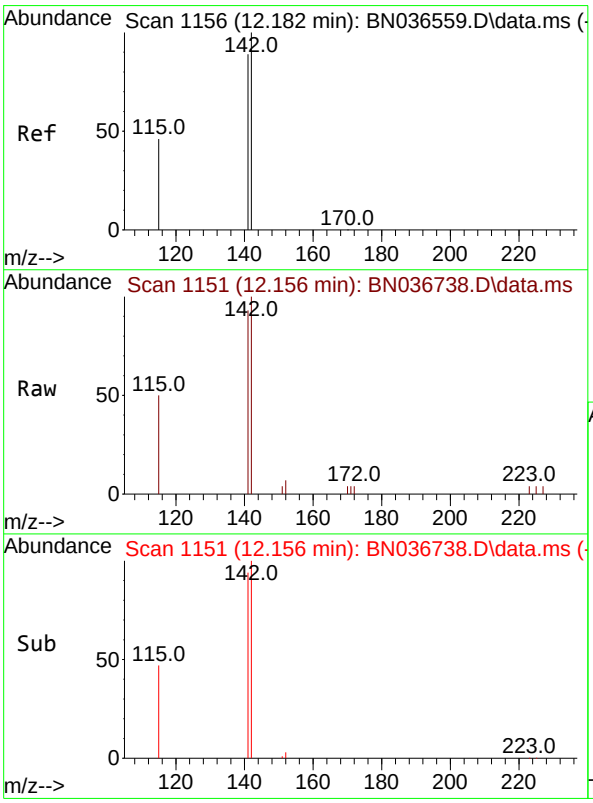
Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

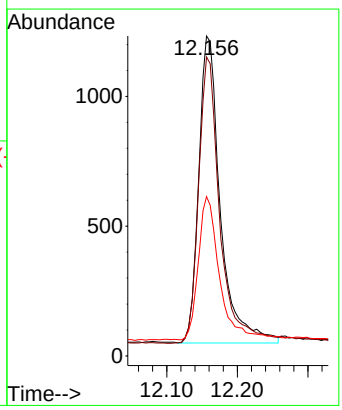


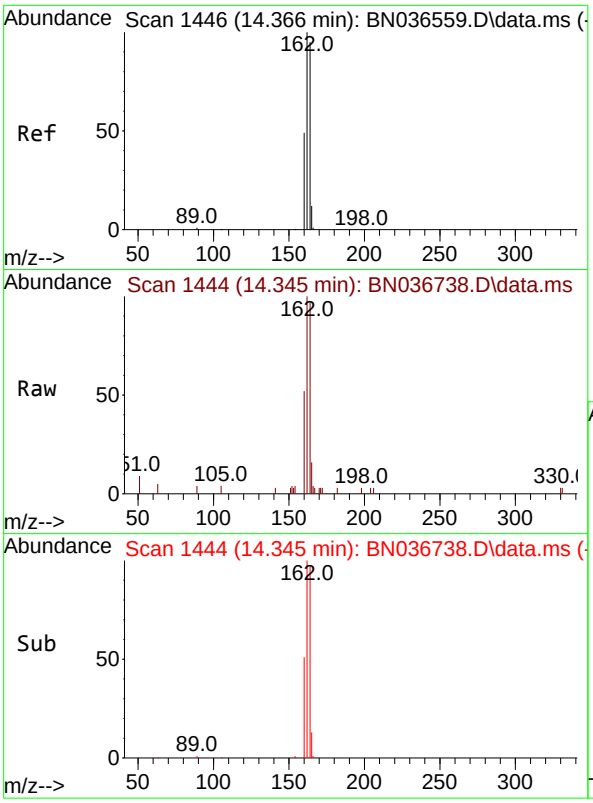


#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:142 Resp: 2514

Ion	Ratio	Lower	Upper
142	100		
141	93.4	71.7	107.5
115	49.8	38.3	57.5

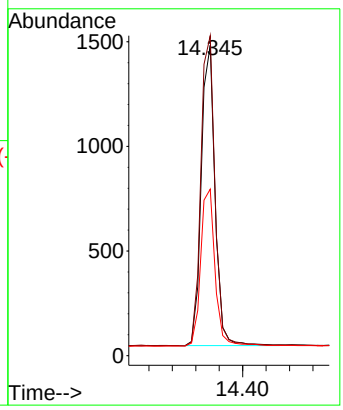




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:164 Resp: 234

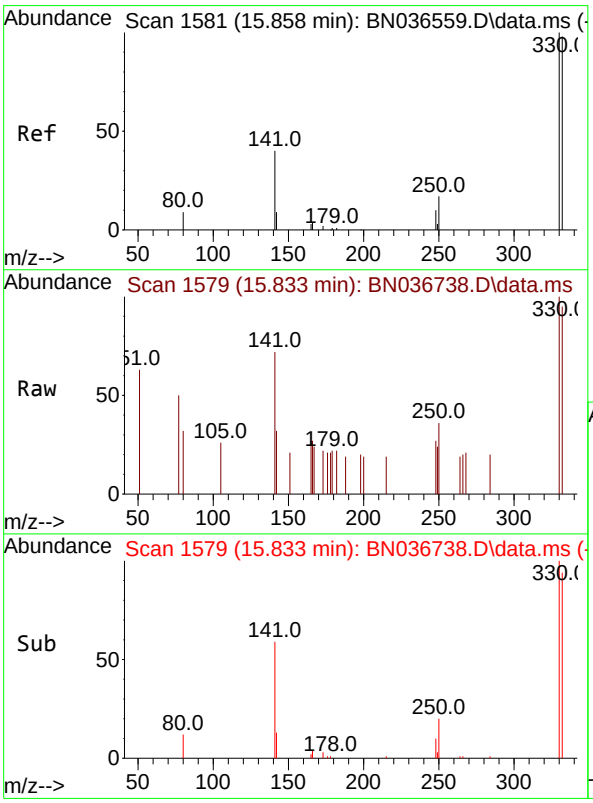
Ion	Ratio	Lower	Upper
164	100		
162	103.1	84.2	126.2
160	53.7	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

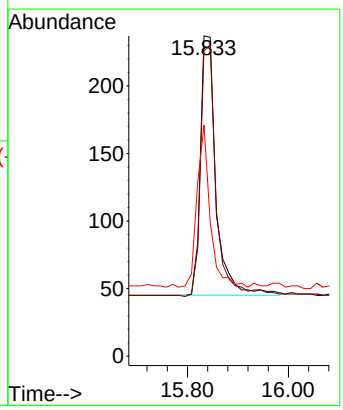
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

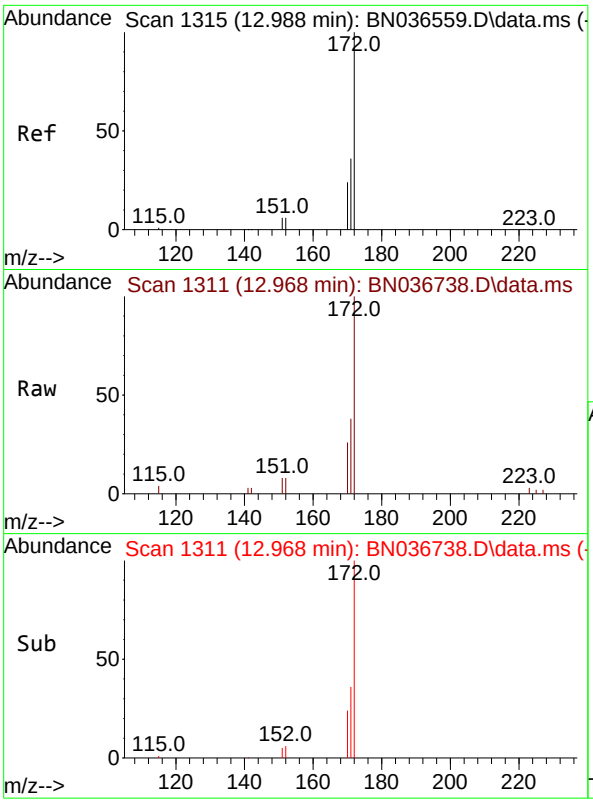


#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:330 Resp: 414

Ion	Ratio	Lower	Upper
330	100		
332	97.6	75.2	112.8
141	52.7	43.4	65.2

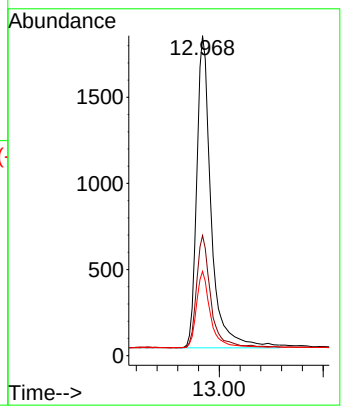




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:172 Resp: 472

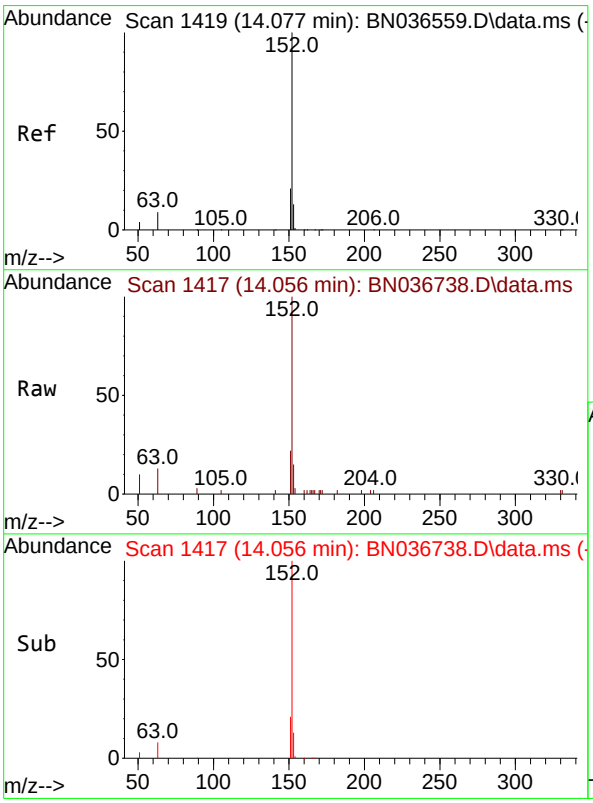
Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.5	44.3
170	26.3	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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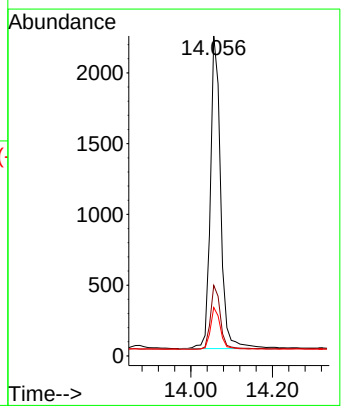
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

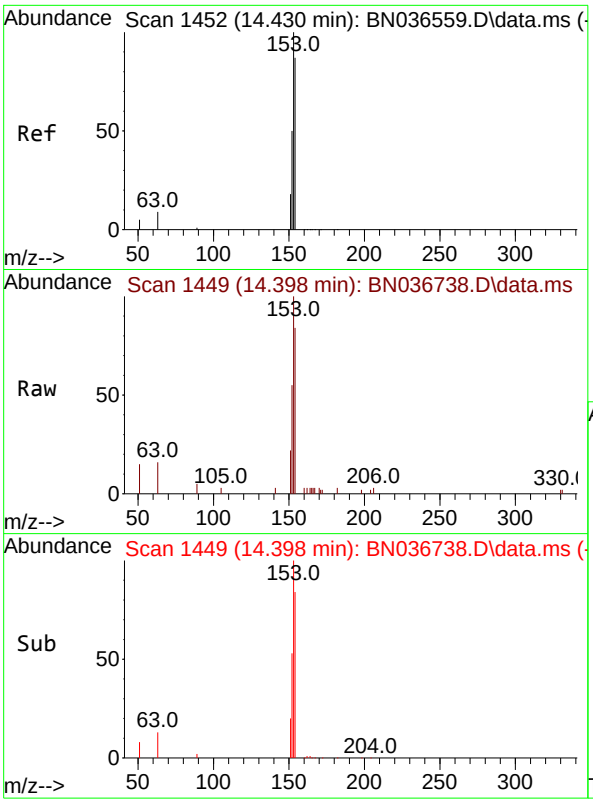


#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:152 Resp: 3861

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.1	10.6	15.8

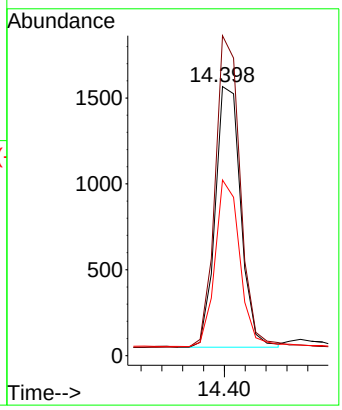




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:154 Resp: 258

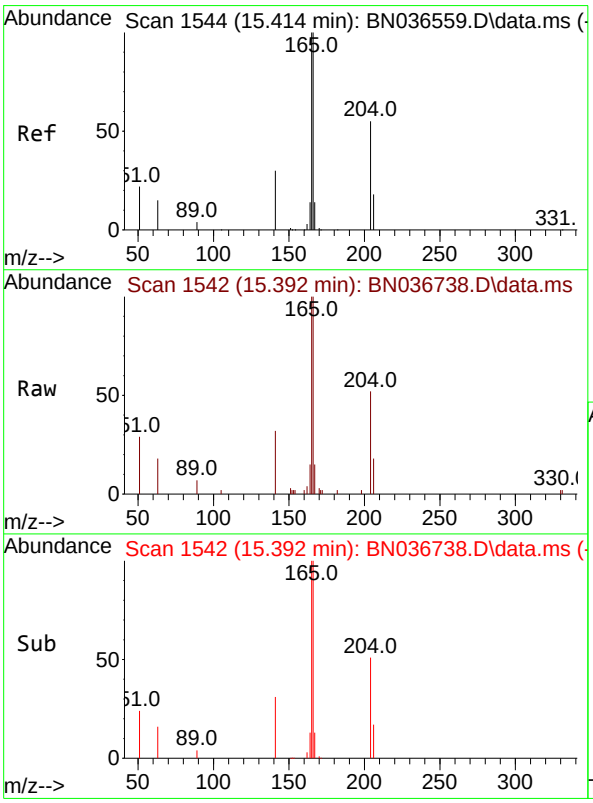
Ion	Ratio	Lower	Upper
154	100		
153	119.8	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

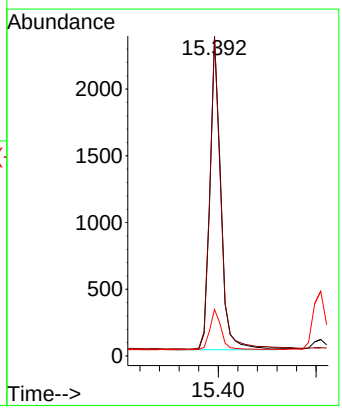
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

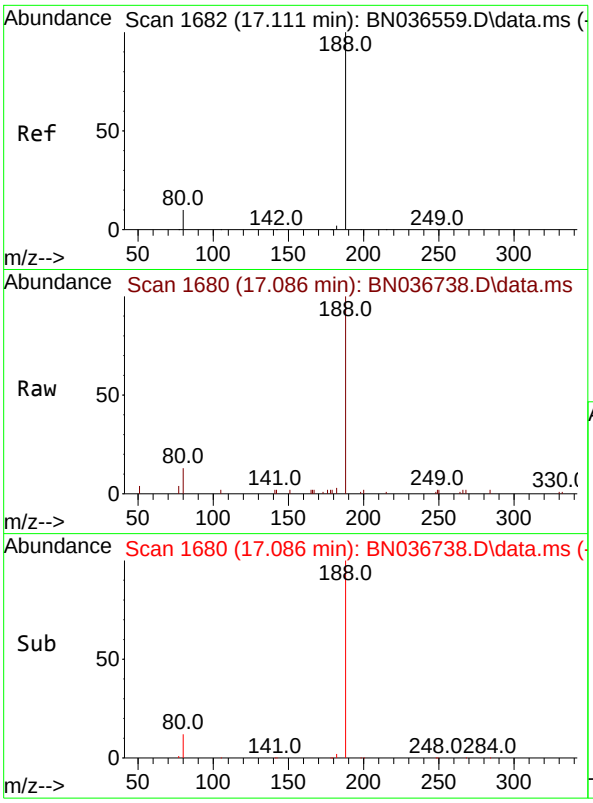


#18
Fluorene
Concen: 0.370 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:166 Resp: 3631

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.7	10.6	15.8

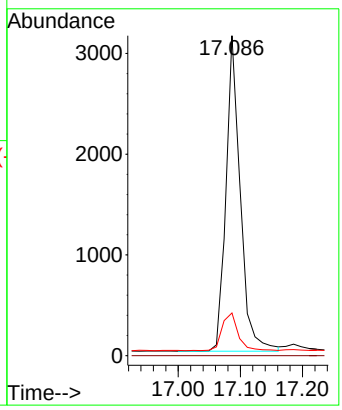




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:188 Resp: 498

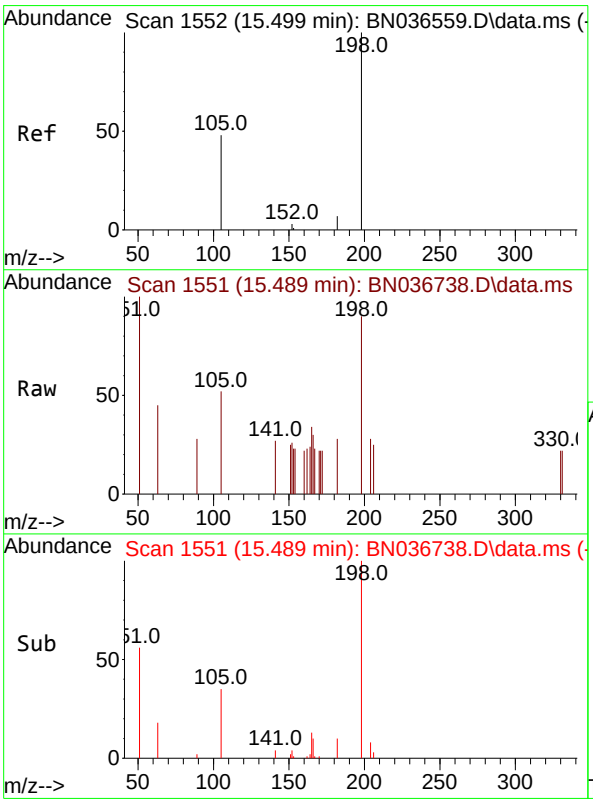
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

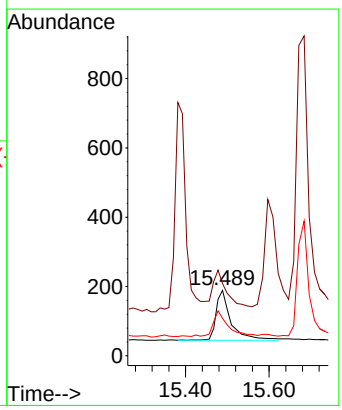
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

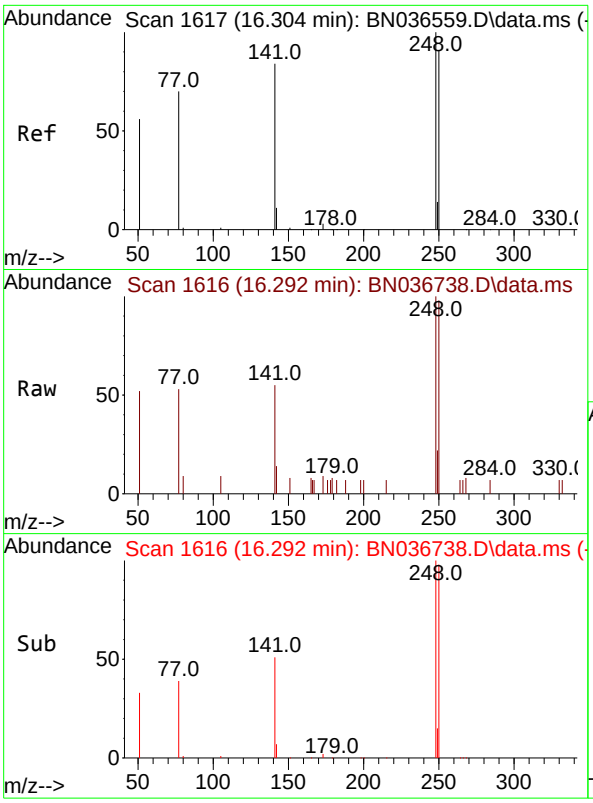


#20
4,6-Dinitro-2-methylphenol
Concen: 0.436 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:198 Resp: 370

Ion	Ratio	Lower	Upper
198	100		
51	110.6	107.9	161.9
105	57.1	56.2	84.2

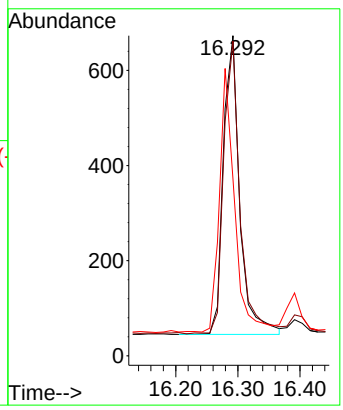




#21
4-Bromophenyl-phenylether
Concen: 0.367 ng
RT: 16.292 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:248 Resp: 114

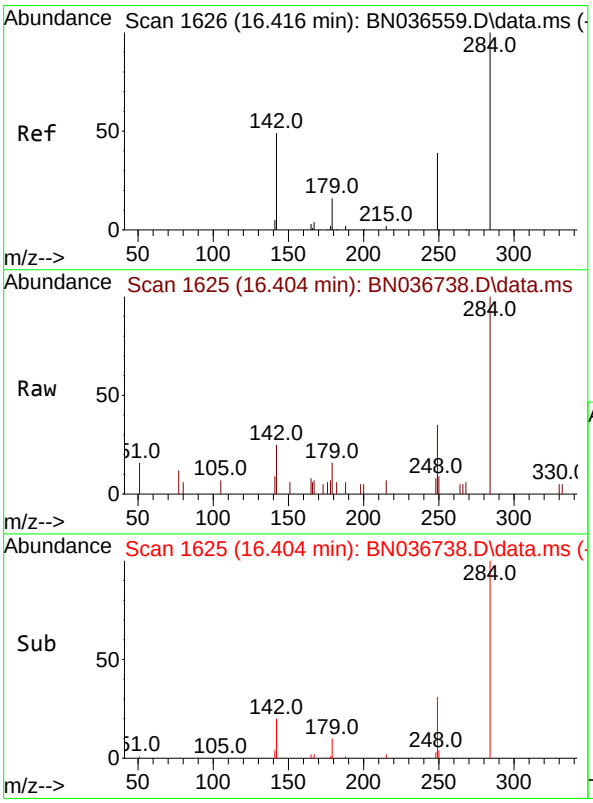
Ion	Ratio	Lower	Upper
248	100		
250	98.4	73.0	109.6
141	55.3	68.6	103.0#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

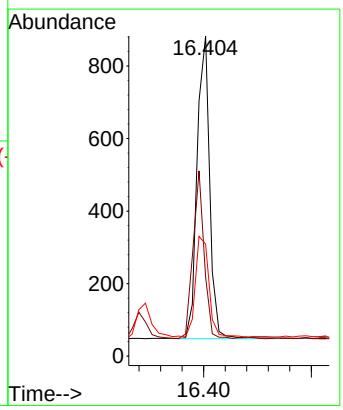
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

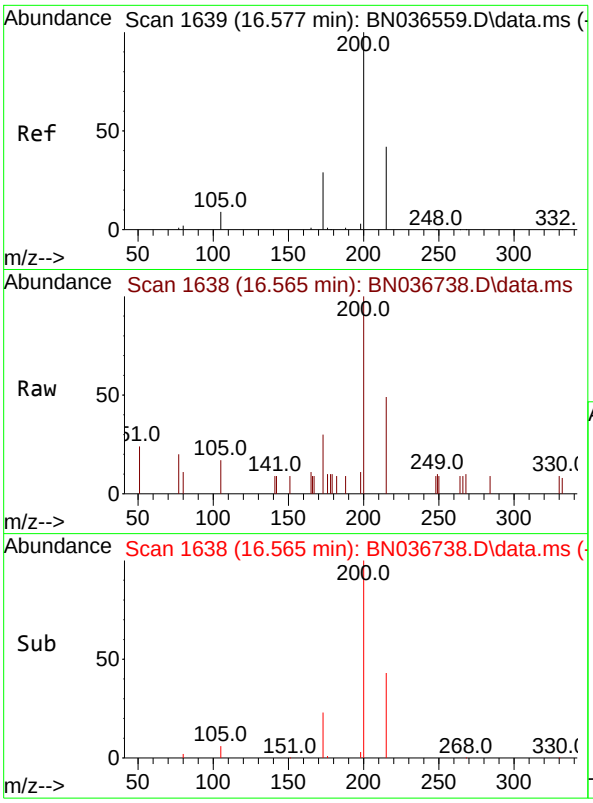


#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:284 Resp: 1358

Ion	Ratio	Lower	Upper
284	100		
142	48.9	37.0	55.4
249	36.3	28.1	42.1

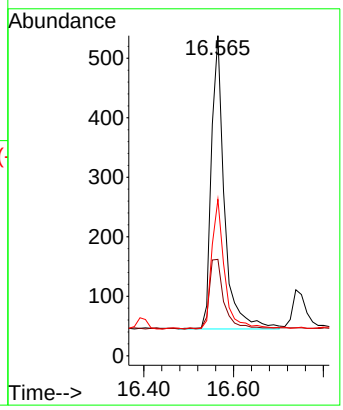




#23
Atrazine
Concen: 0.395 ng
RT: 16.565 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:200 Resp: 99

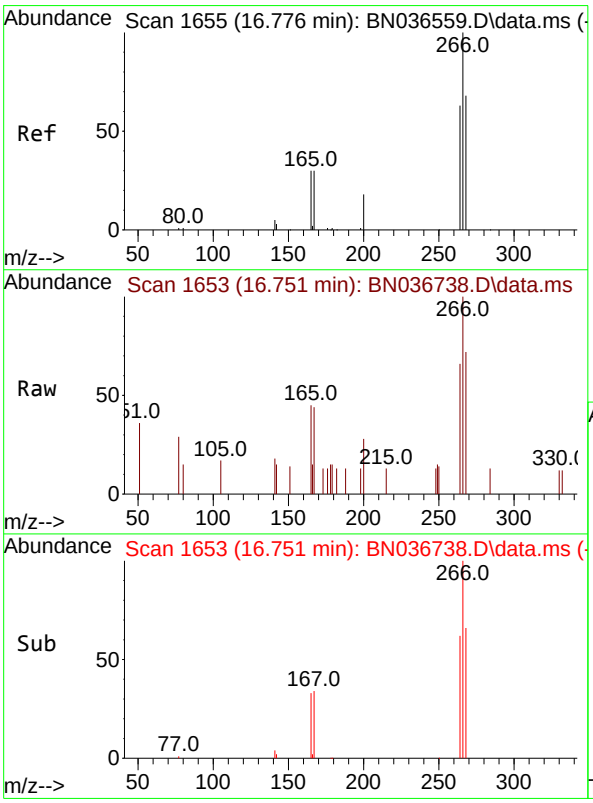
Ion	Ratio	Lower	Upper
200	100		
173	30.1	27.3	40.9
215	48.9	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

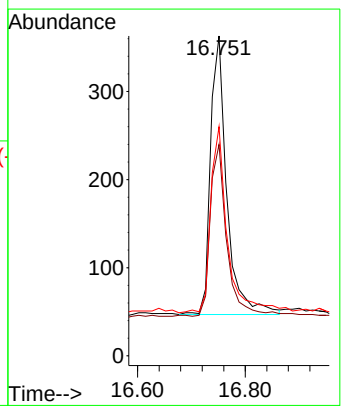
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

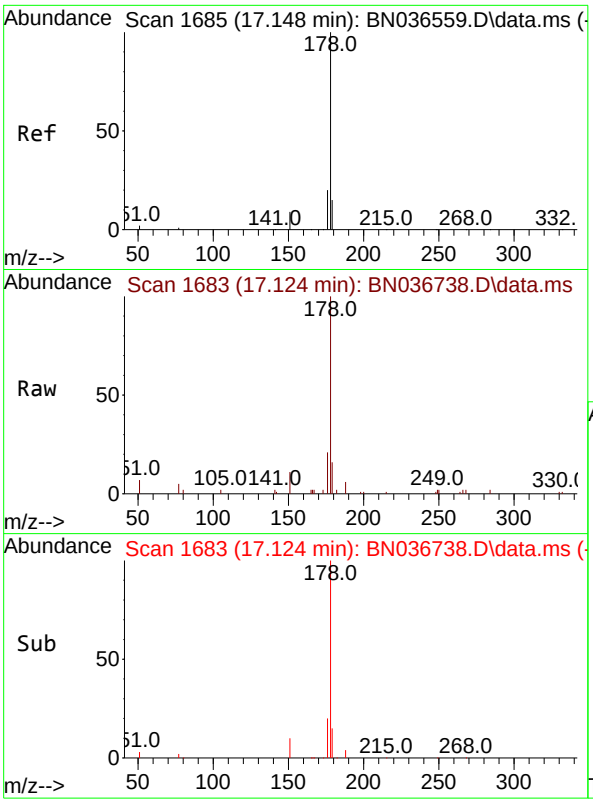


#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	63.6	49.6	74.4
268	69.5	50.9	76.3

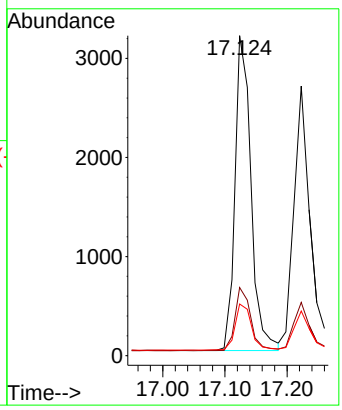




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:178 Resp: 570

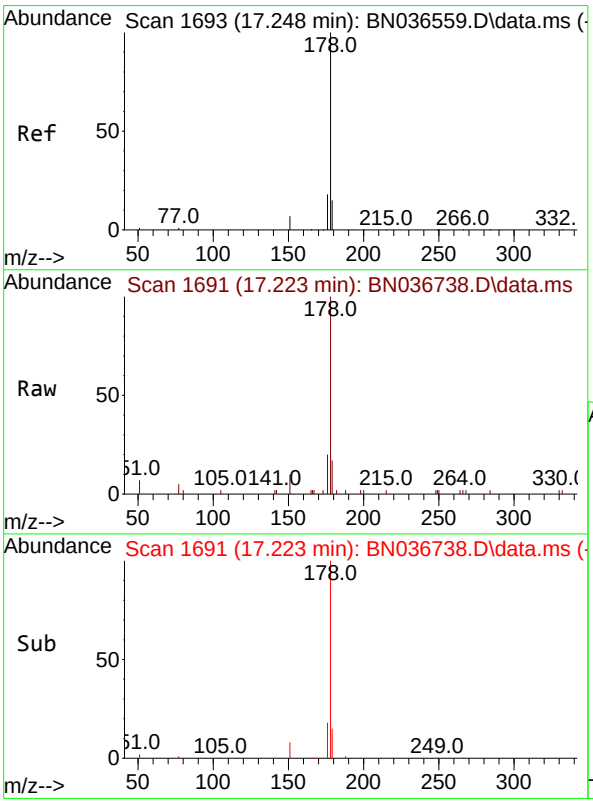
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.1	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

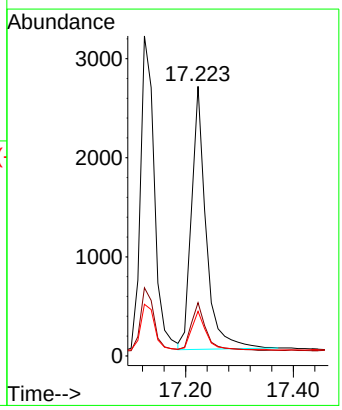
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

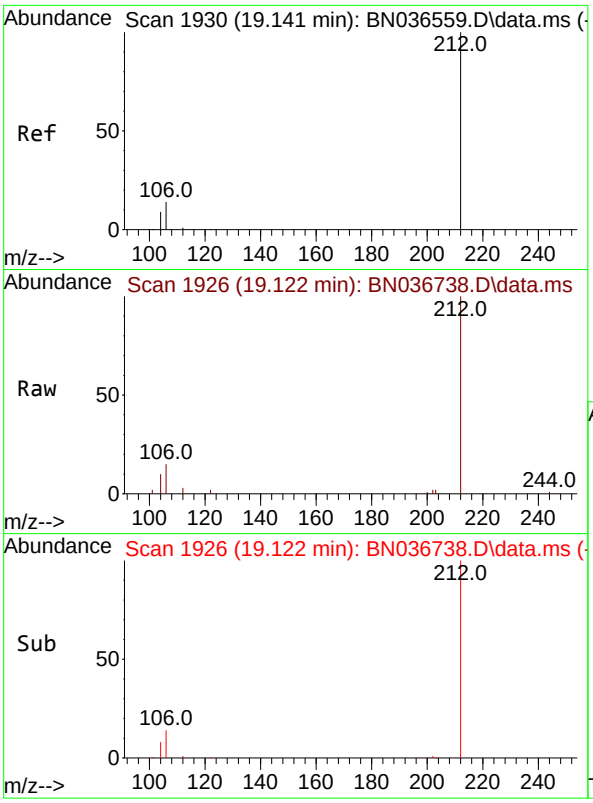


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:178 Resp: 4989

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.2	12.6	18.8

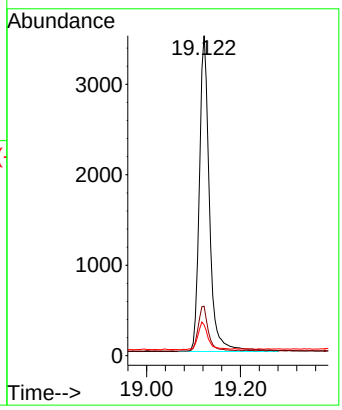




#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:212 Resp: 522

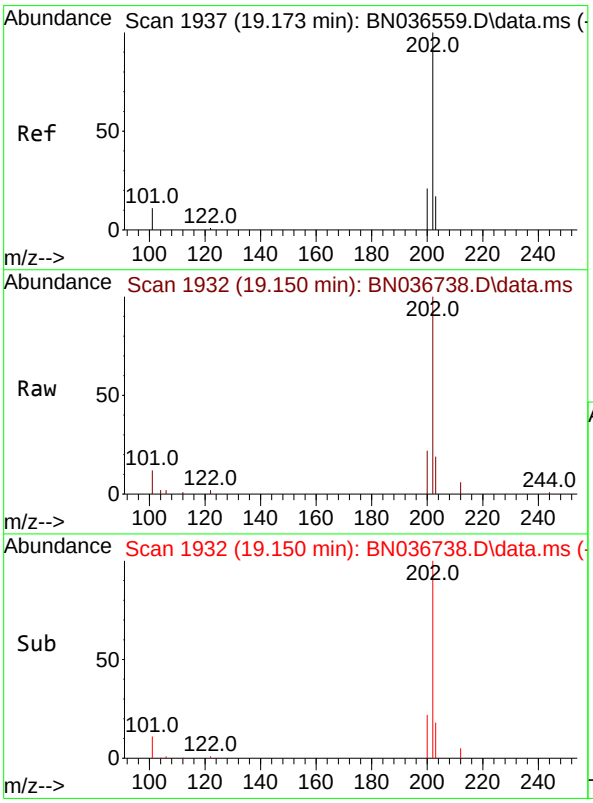
Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

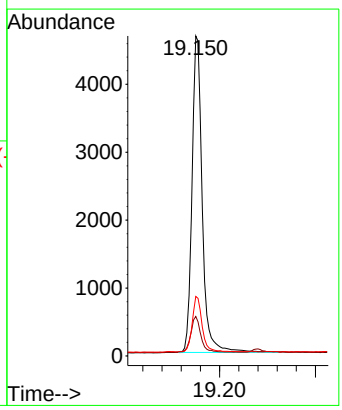
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

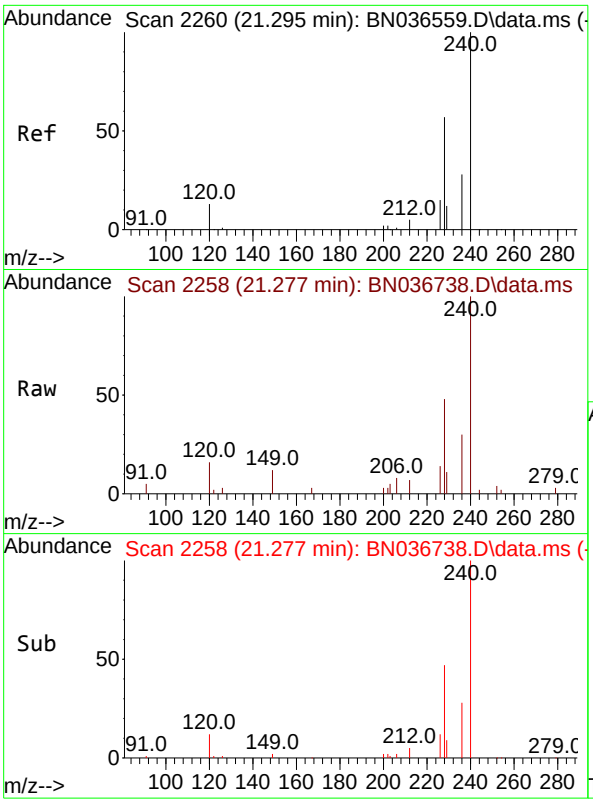


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:202 Resp: 6959

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3

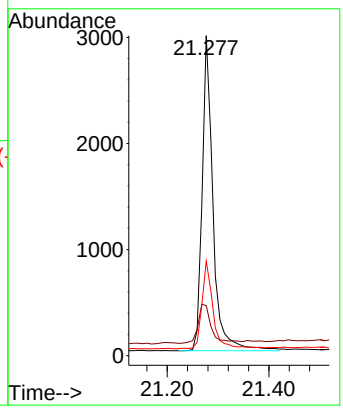




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:240 Resp: 438

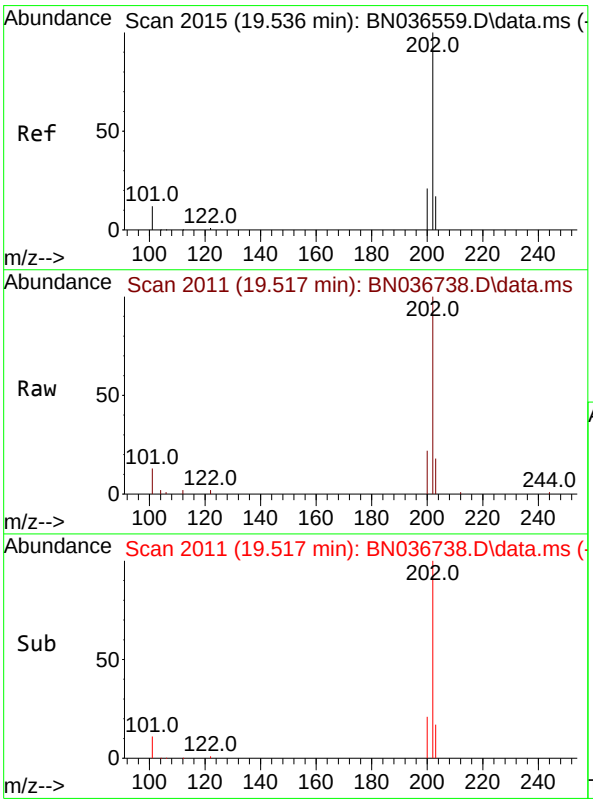
Ion	Ratio	Lower	Upper
240	100		
120	15.7	14.6	22.0
236	29.5	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

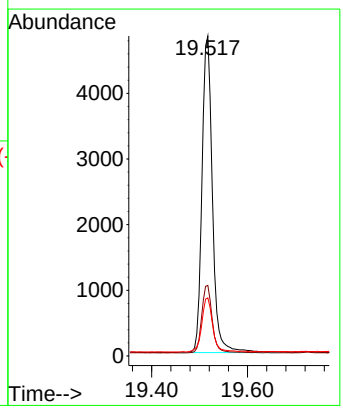
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

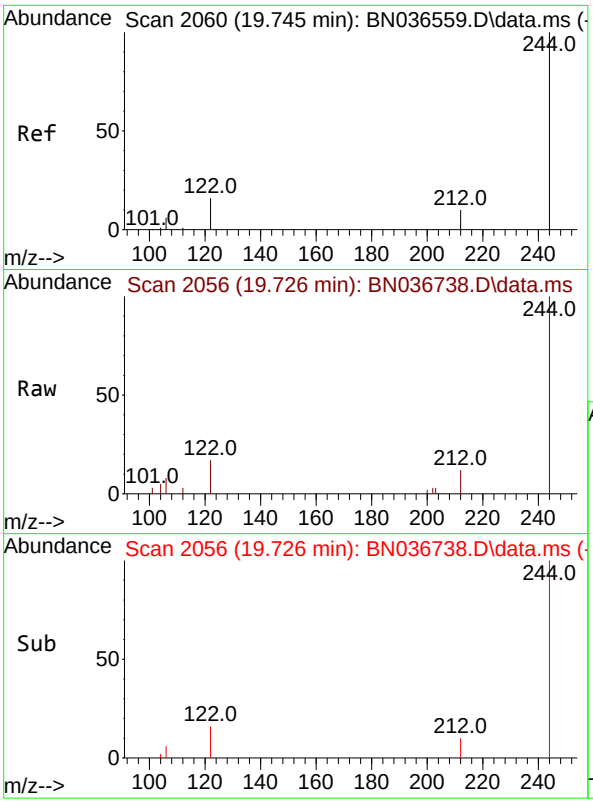


#30
Pyrene
Concen: 0.341 ng
RT: 19.517 min Scan# 2011
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:202 Resp: 7305

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.8	14.1	21.1

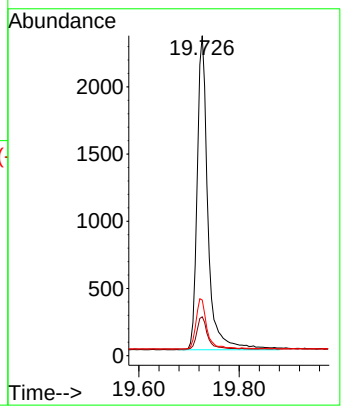




#31
Terphenyl-d14
Concen: 0.330 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:244 Resp: 346

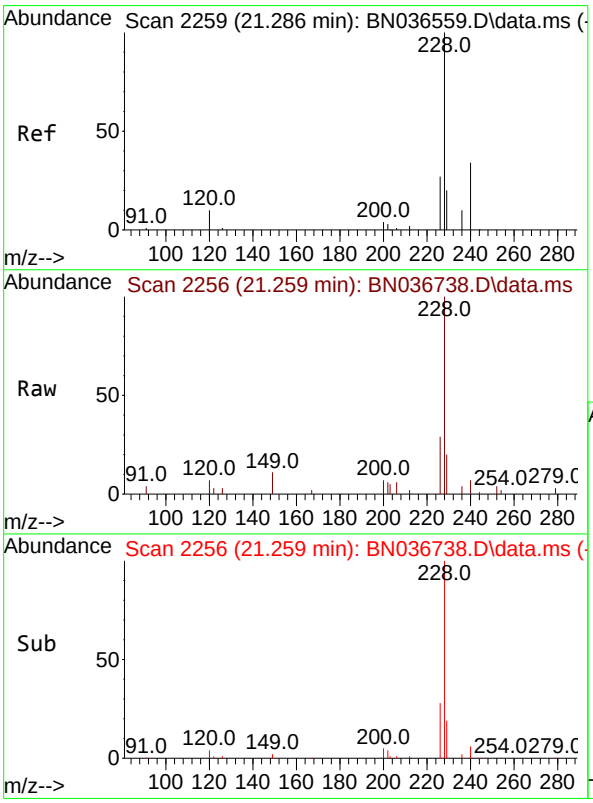
Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.4	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

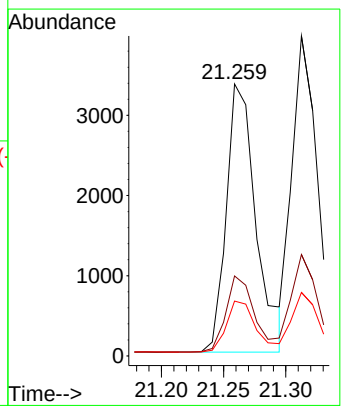
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

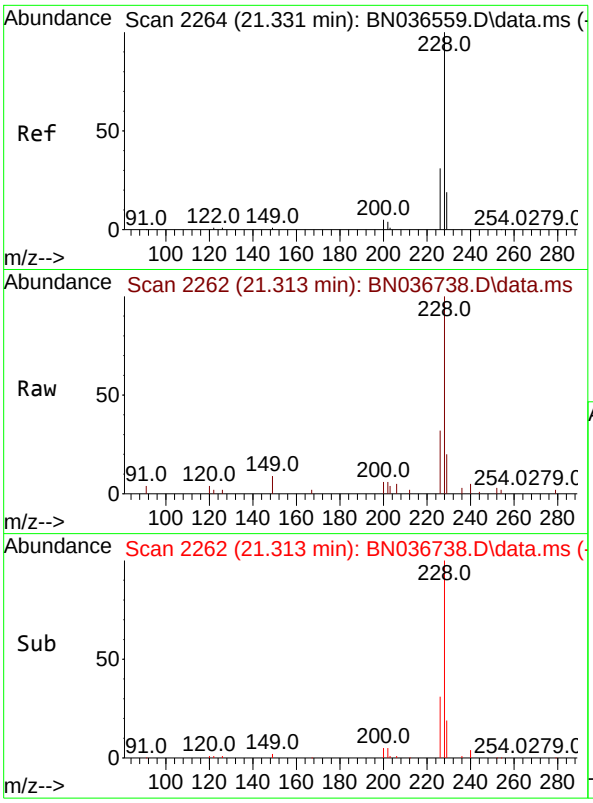


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:228 Resp: 5558

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.5	33.7
229	20.2	16.6	25.0





#33
Chrysene
Concen: 0.370 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

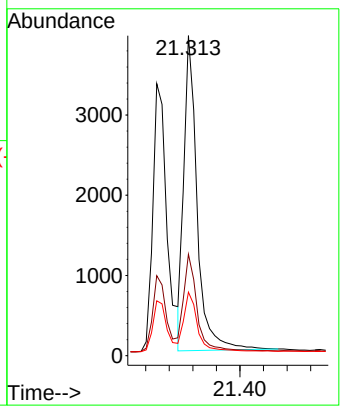
Tgt Ion:228 Resp: 616

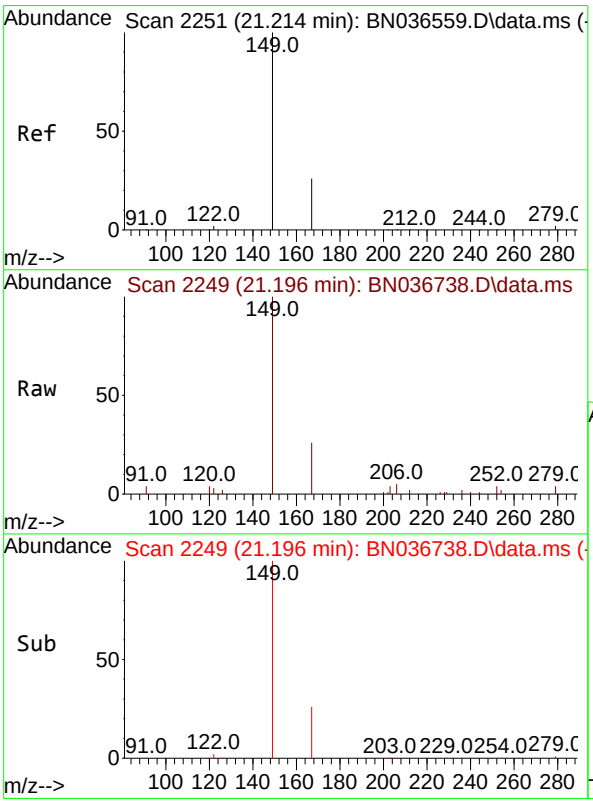
Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.3	37.9
229	19.8	15.8	23.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

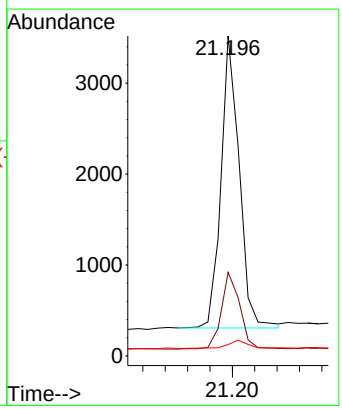


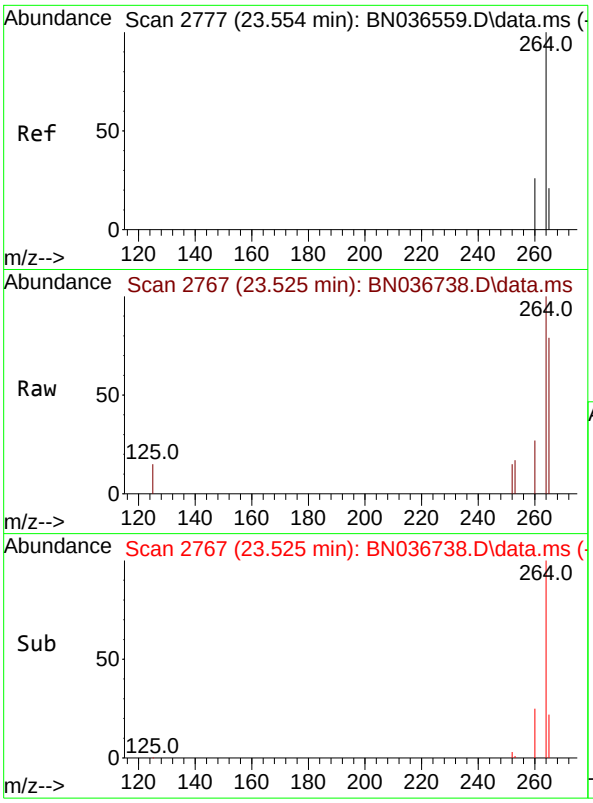


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.335 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:149 Resp: 3633

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.2	3.6	5.4#

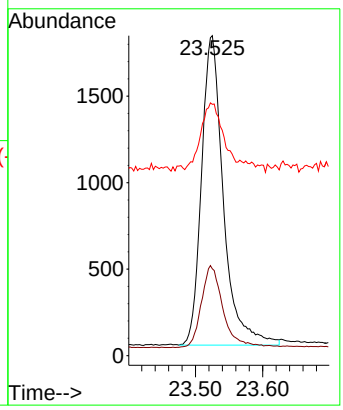




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:264 Resp: 404

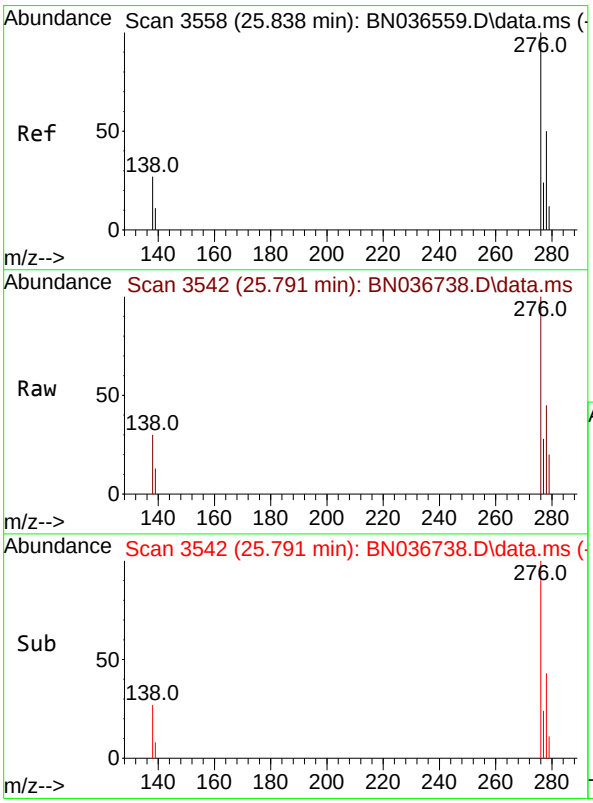
Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	78.5	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

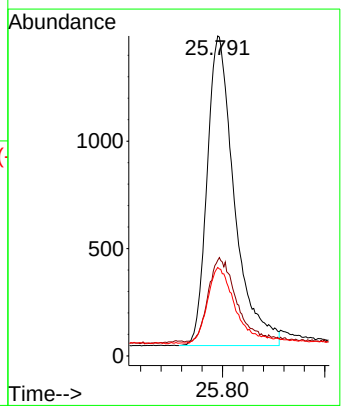
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

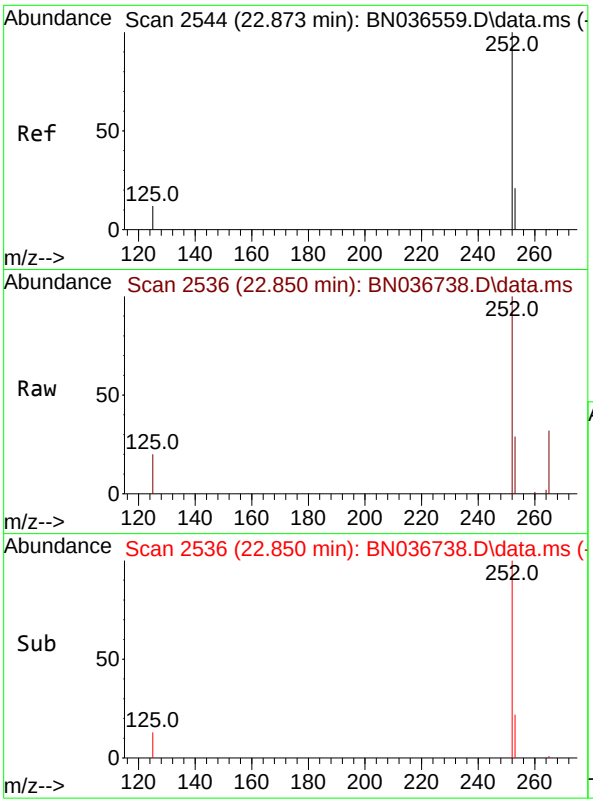


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.047 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:276 Resp: 5346

Ion	Ratio	Lower	Upper
276	100		
138	27.7	23.4	35.2
277	24.9	20.0	30.0

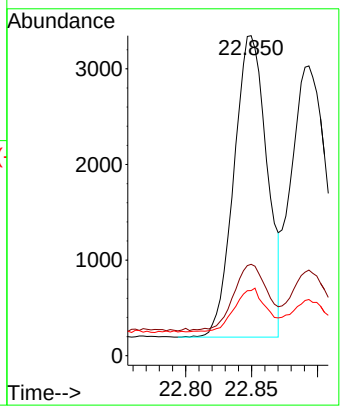




#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.850 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:252 Resp: 550

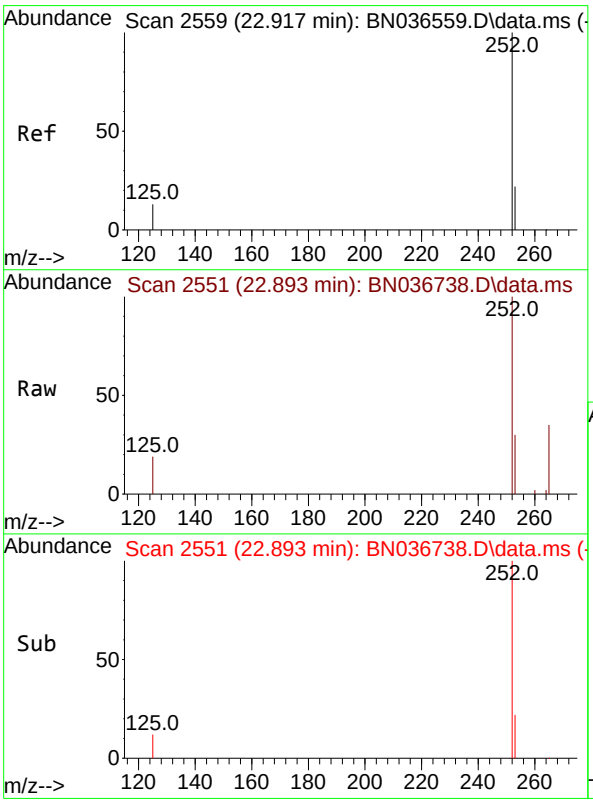
Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.3	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

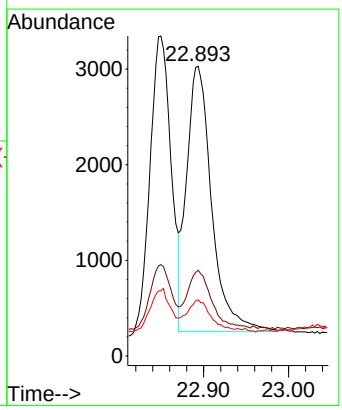
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

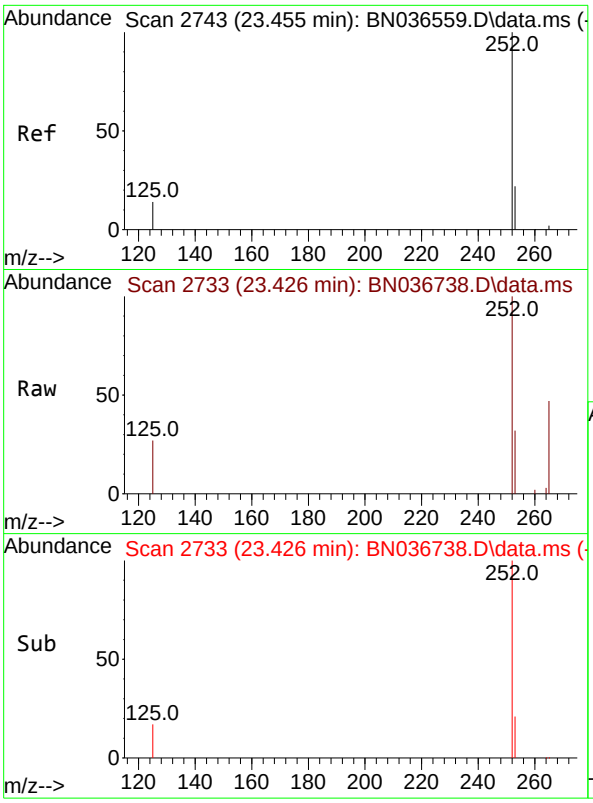


#38
Benzo(k)fluoranthene
Concen: 0.371 ng m
RT: 22.893 min Scan# 2551
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:252 Resp: 5730

Ion	Ratio	Lower	Upper
252	100		
253	29.6	24.6	36.8
125	19.4	17.8	26.8





#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

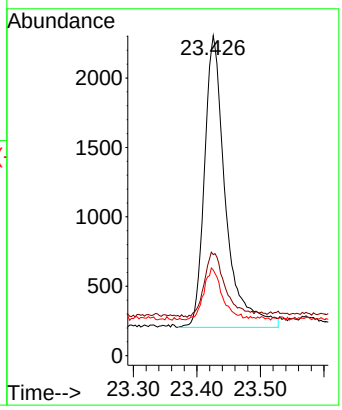
Tgt Ion:252 Resp: 484

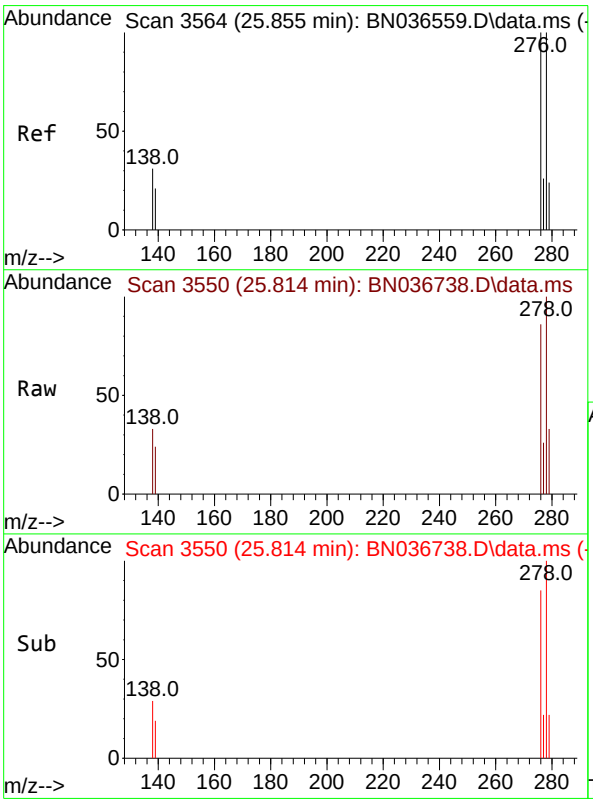
Ion	Ratio	Lower	Upper
252	100		
253	31.6	27.8	41.8
125	26.8	22.7	34.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

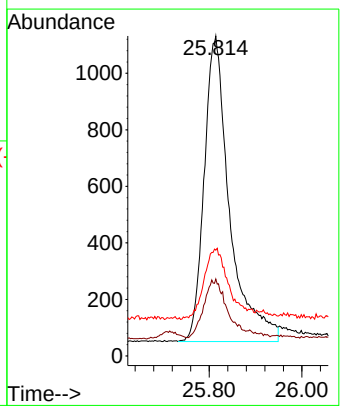


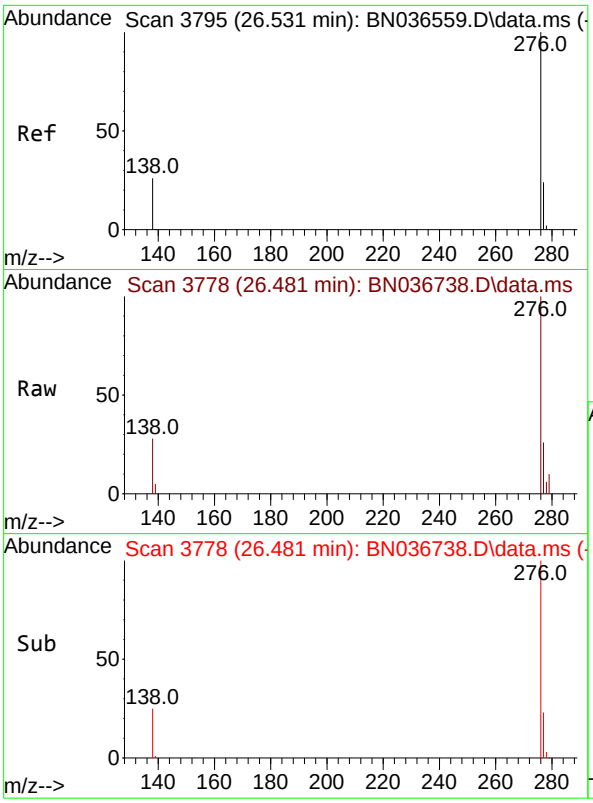


#40
Dibenzo(a,h)anthracene
Concen: 0.362 ng
RT: 25.814 min Scan# 3550
Delta R.T. -0.041 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:278 Resp: 4114

Ion	Ratio	Lower	Upper
278	100		
139	24.0	20.8	31.2
279	33.0	28.8	43.2

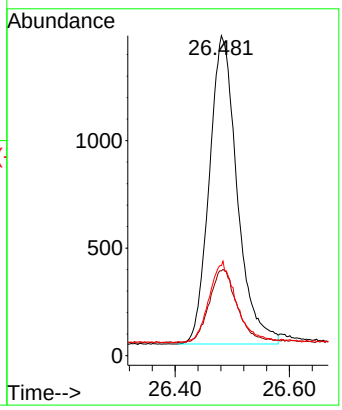




#41
Benzo(g,h,i)perylene
Concen: 0.374 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:276 Resp: 485

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	28.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 16:33:11 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	69	-0.02
2		1,4-Dioxane	0.444	0.473	-6.5	66	-0.01
3		n-Nitrosodimethylamine	0.898	0.854	4.9	63	-0.01
4	S	2-Fluorophenol	0.932	0.850	8.8	59	-0.02
5	S	Phenol-d6	1.152	1.009	12.4	62	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.007	15.4	59	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	75	-0.02
8	S	Nitrobenzene-d5	0.435	0.358	17.7	65	-0.02
9		Naphthalene	1.177	1.064	9.6	66	-0.02
10		Hexachlorobutadiene	0.277	0.251	9.4	64	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.535	10.1	66	-0.03
12		2-Methylnaphthalene	0.749	0.661	11.7	65	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	78	-0.02
14	S	2,4,6-Tribromophenol	0.182	0.176	3.3	73	-0.02
15	S	2-Fluorobiphenyl	2.327	2.012	13.5	65	-0.02
16		Acenaphthylene	1.888	1.644	12.9	66	-0.02
17		Acenaphthene	1.236	1.100	11.0	67	-0.03
18		Fluorene	1.672	1.546	7.5	68	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	83	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.074	14.0	80	-0.01
21		4-Bromophenyl-phenylether	0.251	0.230	8.4	70	-0.01
22		Hexachlorobenzene	0.303	0.272	10.2	67	-0.01
23		Atrazine	0.201	0.199	1.0	77	-0.01
24		Pentachlorophenol	0.138	0.133	3.6	81	-0.02
25		Phenanthrene	1.200	1.143	4.7	73	-0.02
26		Anthracene	1.083	1.000	7.7	72	-0.02
27	SURR	Fluoranthene-d10	1.025	1.046	-2.0	78	-0.02
28		Fluoranthene	1.348	1.395	-3.5	80	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	107	-0.02
30		Pyrene	1.956	1.666	14.8	83	-0.02
31	S	Terphenyl-d14	0.958	0.790	17.5	82	-0.02
32		Benzo(a)anthracene	1.391	1.268	8.8	94	-0.03
33		Chrysene	1.520	1.405	7.6	93	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.829	16.3	85	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	114	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.322	8.4	98	-0.05
37		Benzo(b)fluoranthene	1.456	1.362	6.5	101	-0.02
38		Benzo(k)fluoranthene	1.527	1.417	7.2	100	-0.02
39	C	Benzo(a)pyrene	1.226	1.197	2.4	105	-0.03
40		Dibenzo(a,h)anthracene	1.124	1.017	9.5	100	-0.04
41		Benzo(g,h,i)perylene	1.286	1.201	6.6	99	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 27 16:33:11 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	69	-0.02
2		1,4-Dioxane	0.400	0.427	-6.7	66	-0.01
3		n-Nitrosodimethylamine	0.400	0.381	4.8	63	-0.01
4	S	2-Fluorophenol	0.400	0.365	8.8	59	-0.02
5	S	Phenol-d6	0.400	0.350	12.5	62	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.338	15.5	59	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	75	-0.02
8	S	Nitrobenzene-d5	0.400	0.329	17.8	65	-0.02
9		Naphthalene	0.400	0.362	9.5	66	-0.02
10		Hexachlorobutadiene	0.400	0.363	9.3	64	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.360	10.0	66	-0.03
12		2-Methylnaphthalene	0.400	0.353	11.8	65	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	78	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.389	2.8	73	-0.02
15	S	2-Fluorobiphenyl	0.400	0.346	13.5	65	-0.02
16		Acenaphthylene	0.400	0.348	13.0	66	-0.02
17		Acenaphthene	0.400	0.356	11.0	67	-0.03
18		Fluorene	0.400	0.370	7.5	68	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	83	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.436	-9.0	80	-0.01
21		4-Bromophenyl-phenylether	0.400	0.367	8.3	70	-0.01
22		Hexachlorobenzene	0.400	0.360	10.0	67	-0.01
23		Atrazine	0.400	0.395	1.3	77	-0.01
24		Pentachlorophenol	0.400	0.385	3.8	81	-0.02
25		Phenanthrene	0.400	0.381	4.8	73	-0.02
26		Anthracene	0.400	0.369	7.8	72	-0.02
27	SURR	Fluoranthene-d10	0.400	0.408	-2.0	78	-0.02
28		Fluoranthene	0.400	0.414	-3.5	80	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	107	-0.02
30		Pyrene	0.400	0.341	14.8	83	-0.02
31	S	Terphenyl-d14	0.400	0.330	17.5	82	-0.02
32		Benzo(a)anthracene	0.400	0.365	8.8	94	-0.03
33		Chrysene	0.400	0.370	7.5	93	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.335	16.3	85	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	114	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.366	8.5	98	-0.05
37		Benzo(b)fluoranthene	0.400	0.374	6.5	101	-0.02
38		Benzo(k)fluoranthene	0.400	0.371	7.3	100	-0.02
39	C	Benzo(a)pyrene	0.400	0.391	2.3	105	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.362	9.5	100	-0.04
41		Benzo(g,h,i)perylene	0.400	0.374	6.5	99	-0.05

(#) = 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: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG No.: Q1608

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 01:52

Lab File ID: BN036755.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC 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	0.516		-13.3	50.0
Fluoranthene-d10	1.025	1.003		-2.1	50.0
2-Fluorophenol	0.932	0.839		-10.0	50.0
Phenol-d6	1.152	1.005		-12.8	50.0
Nitrobenzene-d5	0.435	0.357		-17.9	50.0
2-Fluorobiphenyl	2.327	1.853		-20.4	50.0
2,4,6-Tribromophenol	0.182	0.170		-6.6	50.0
Terphenyl-d14	0.958	0.759		-20.8	50.0
1,4-Dioxane	0.444	0.464		4.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 28 05:36:33 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 :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1902	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	4724	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	3073	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	6417	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5861	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	5647	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1596	0.360	ng		-0.02
5) Phenol-d6	6.872	99	1912	0.349	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1688	0.328	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2439	0.347	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	523	0.375	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5695	0.319	ng		-0.03
27) Fluoranthene-d10	19.122	212	6435	0.391	ng		-0.02
31) Terphenyl-d14	19.722	244	4447	0.317	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	882	0.418	ng		97
3) n-Nitrosodimethylamine	3.536	42	1688	0.395	ng		93
6) bis(2-Chloroethyl)ether	7.125	93	1966	0.347	ng		99
9) Naphthalene	10.530	128	4933	0.355	ng		99
10) Hexachlorobutadiene	10.829	225	1194	0.365	ng	#	100
12) 2-Methylnaphthalene	12.157	142	3191	0.361	ng		98
16) Acenaphthylene	14.056	152	5054	0.349	ng		100
17) Acenaphthene	14.398	154	3383	0.356	ng		99
18) Fluorene	15.393	166	4678	0.364	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	489	0.444	ng		88
21) 4-Bromophenyl-phenylether	16.280	248	1456	0.362	ng		93
22) Hexachlorobenzene	16.404	284	1743	0.359	ng		98
23) Atrazine	16.553	200	1231	0.382	ng		96
24) Pentachlorophenol	16.739	266	837	0.378	ng		96
25) Phenanthrene	17.124	178	7451	0.387	ng		100
26) Anthracene	17.223	178	6503	0.374	ng		99
28) Fluoranthene	19.150	202	8702	0.402	ng		99
30) Pyrene	19.513	202	9138	0.319	ng		100
32) Benzo(a)anthracene	21.259	228	7209	0.354	ng		99
33) Chrysene	21.313	228	8619	0.387	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5036	0.347	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.785	276	7554	0.371	ng		98
37) Benzo(b)fluoranthene	22.847	252	7851	0.382	ng		97
38) Benzo(k)fluoranthene	22.888	252	8148m	0.378	ng		
39) Benzo(a)pyrene	23.420	252	6760	0.391	ng		95
40) Dibenzo(a,h)anthracene	25.806	278	5864	0.370	ng		90
41) Benzo(g,h,i)perylene	26.475	276	6890m	0.380	ng		

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

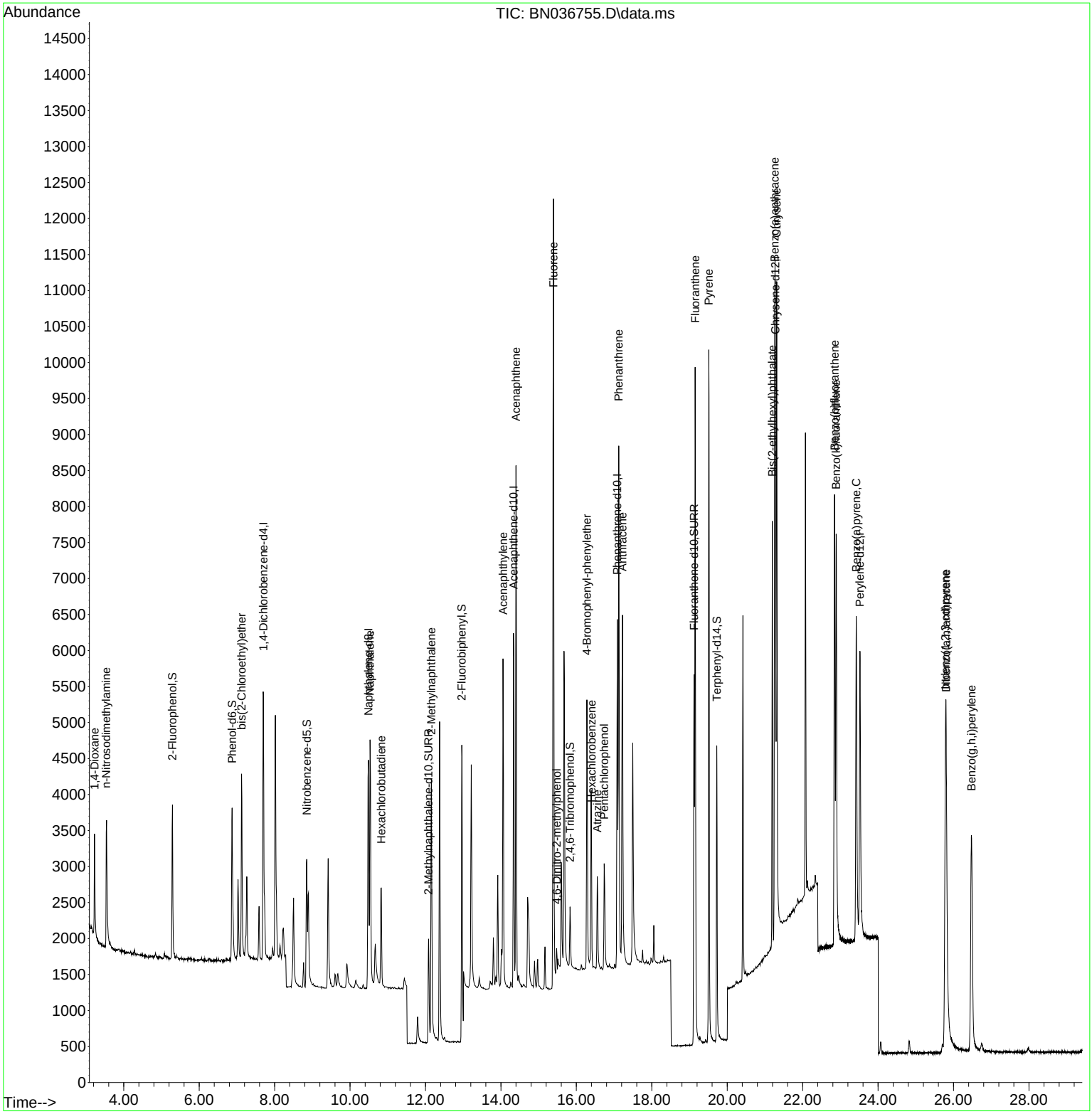
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

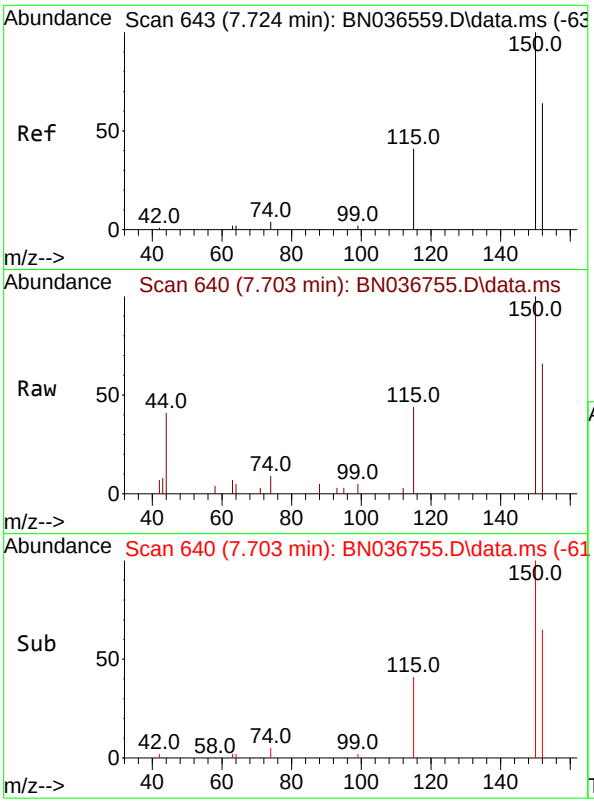
Quant Time: Mar 28 05:36:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

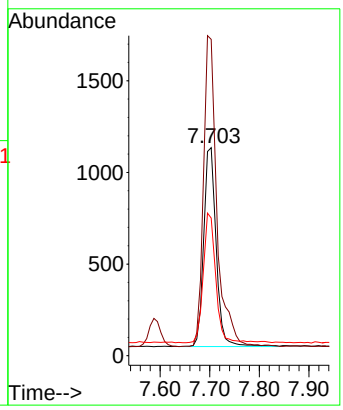




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:152 Resp: 190

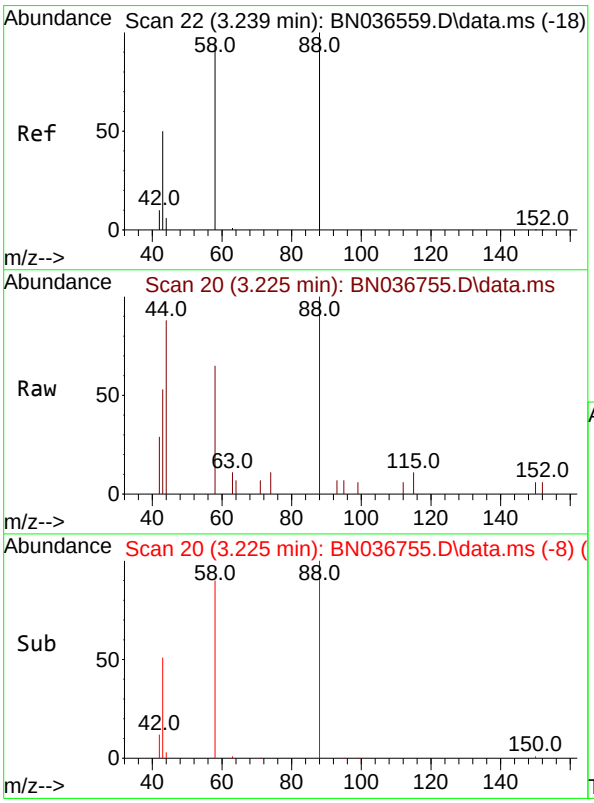
Ion	Ratio	Lower	Upper
152	100		
150	152.1	123.7	185.5
115	66.2	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

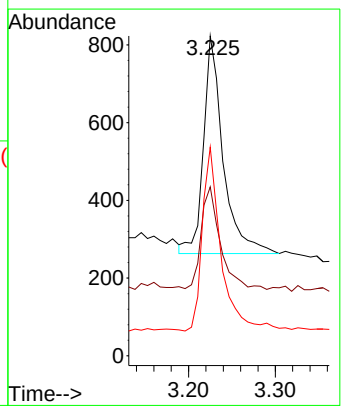
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

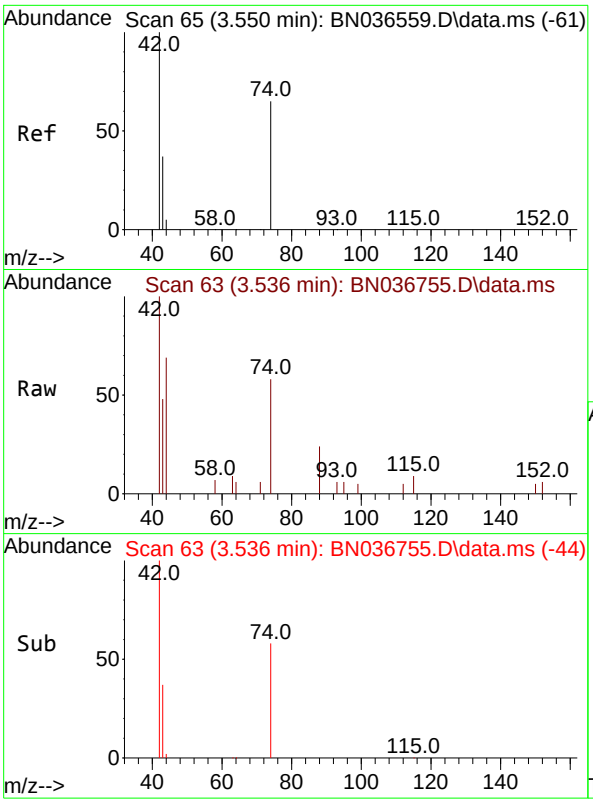


#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 88 Resp: 882

Ion	Ratio	Lower	Upper
88	100		
43	45.9	37.8	56.8
58	81.1	67.4	101.2

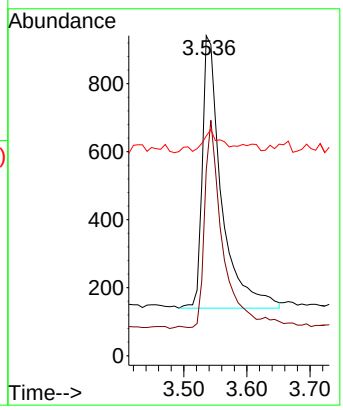




#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 42 Resp: 168

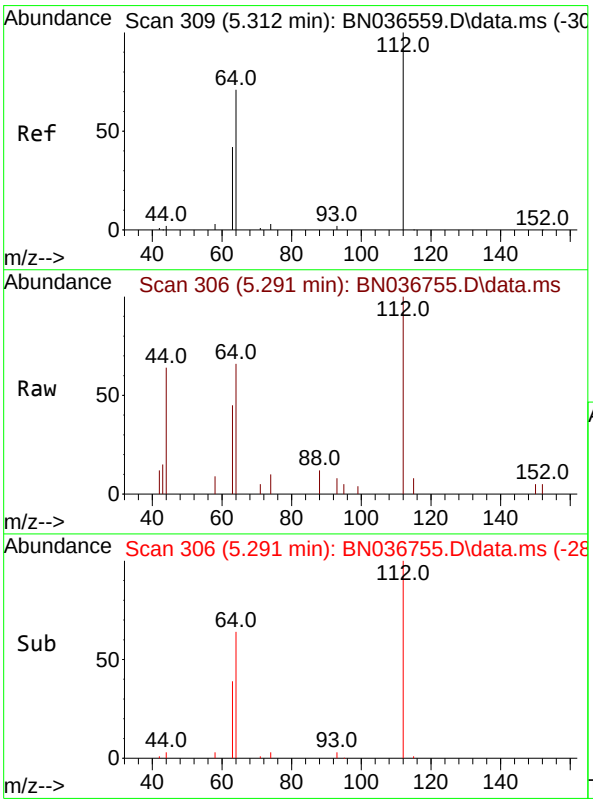
Ion	Ratio	Lower	Upper
42	100		
74	68.9	60.6	90.8
44	7.1	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

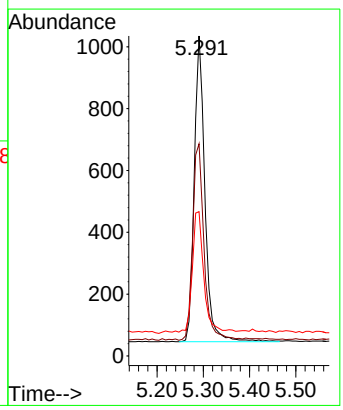
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

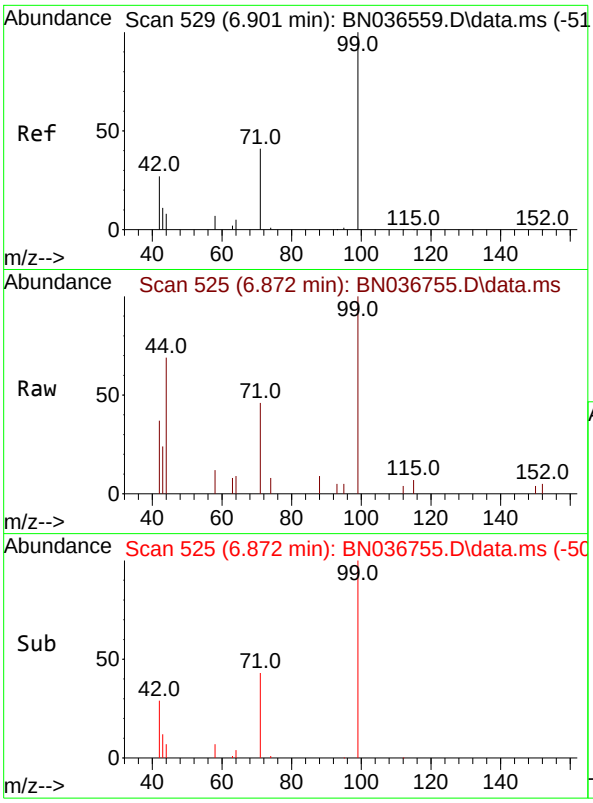


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:112 Resp: 1596

Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.1	79.7
63	41.4	31.8	47.8

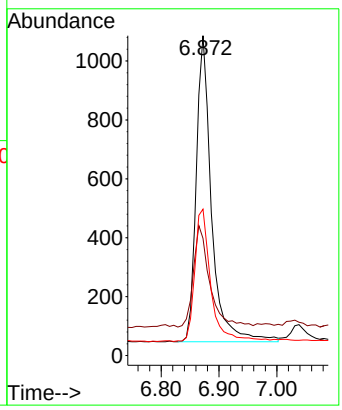




#5
Phenol-d6
Concen: 0.349 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 99 Resp: 191

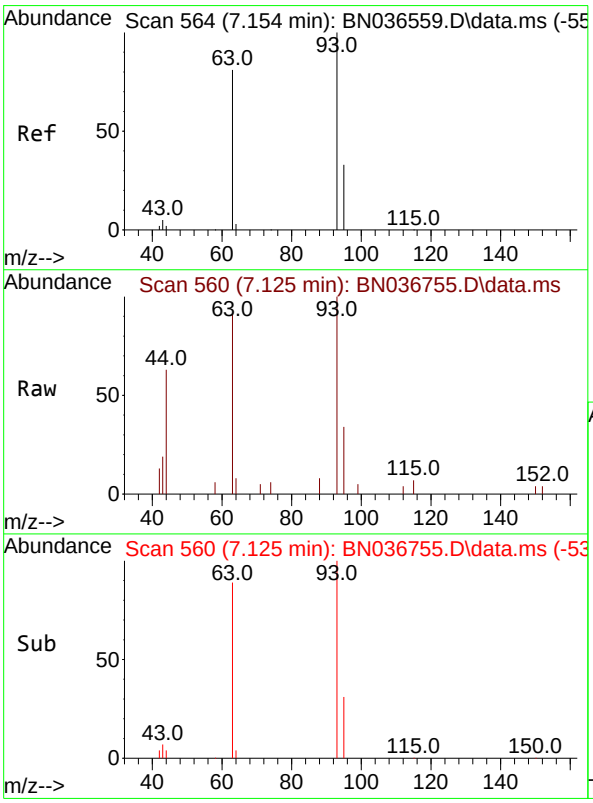
Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	45.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

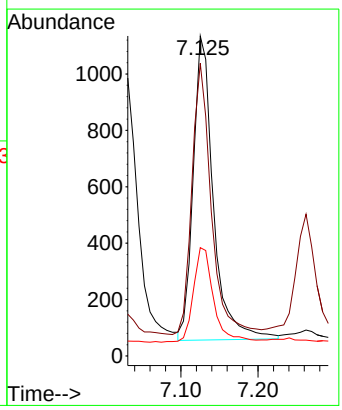
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

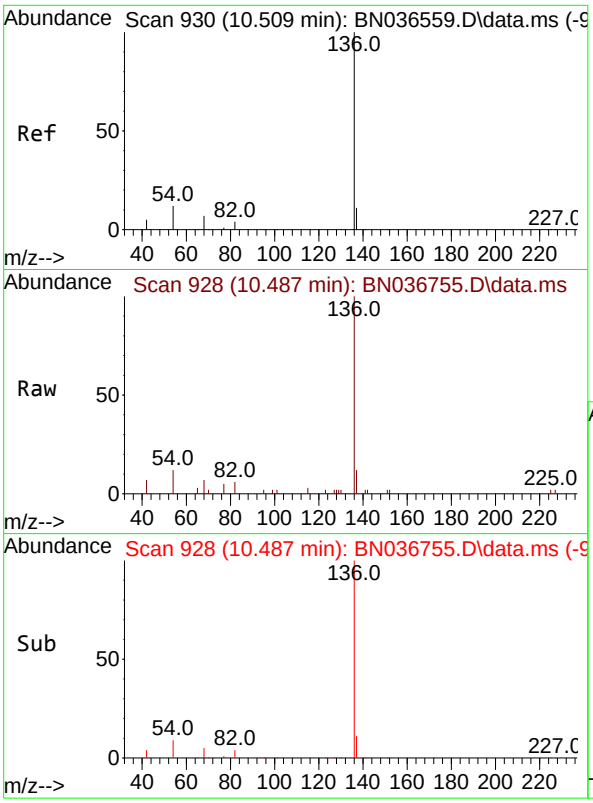


#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 93 Resp: 1966

Ion	Ratio	Lower	Upper
93	100		
63	85.6	67.7	101.5
95	31.0	25.6	38.4

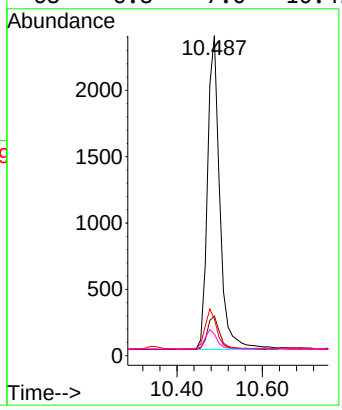




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:136 Resp: 472

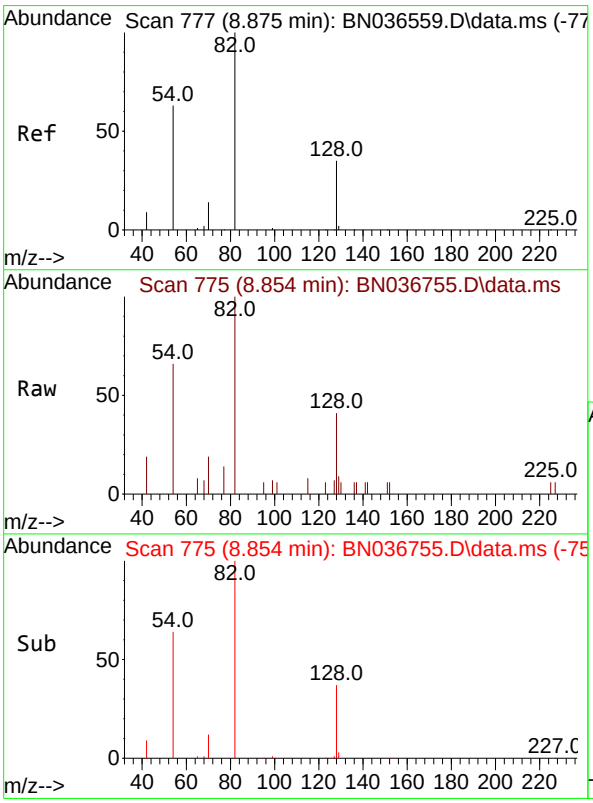
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.5	11.5	17.3
68	6.8	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

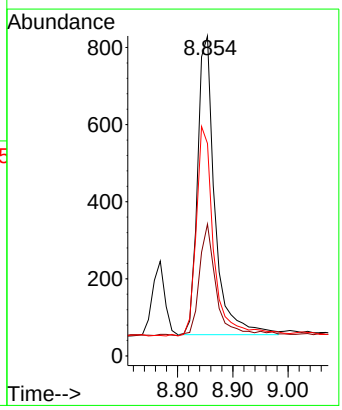
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

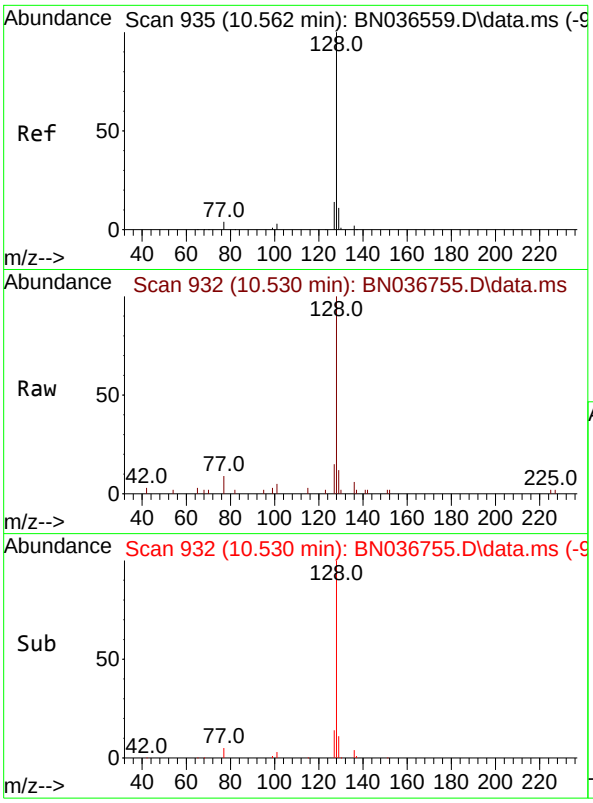


#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 82 Resp: 1688

Ion	Ratio	Lower	Upper
82	100		
128	41.2	30.6	45.8
54	66.4	52.2	78.4

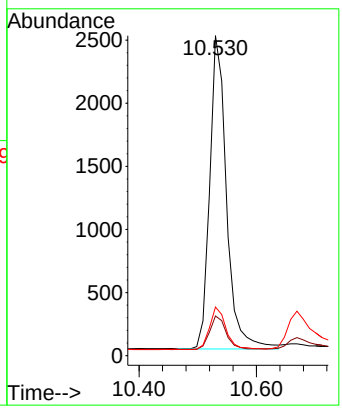




#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:128 Resp: 493

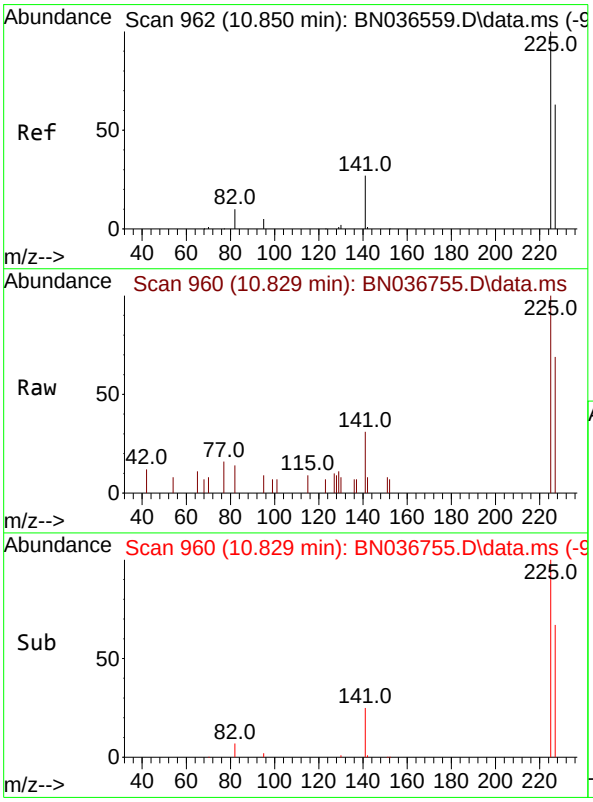
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.2	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

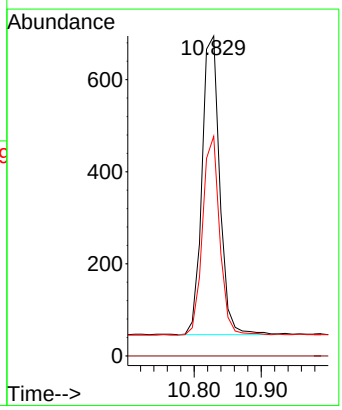
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

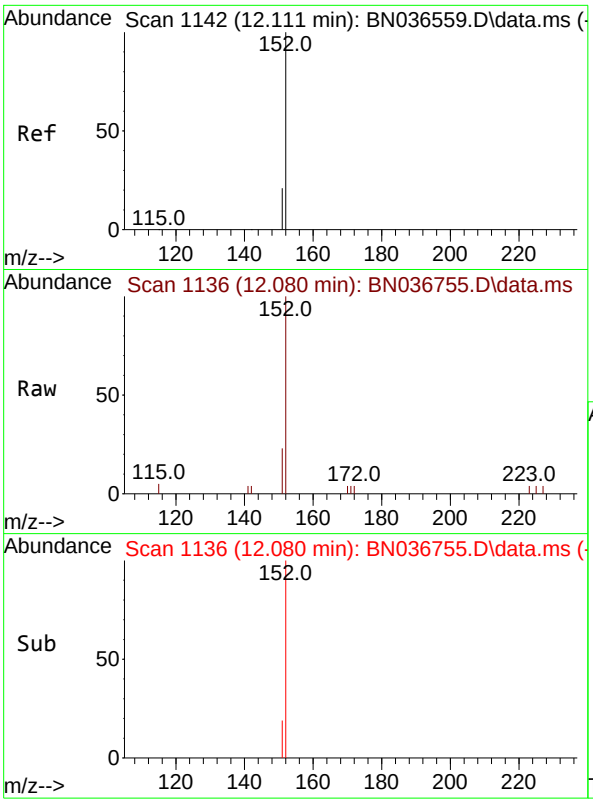


#10
Hexachlorobutadiene
Concen: 0.365 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:225 Resp: 1194

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: 0.347 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

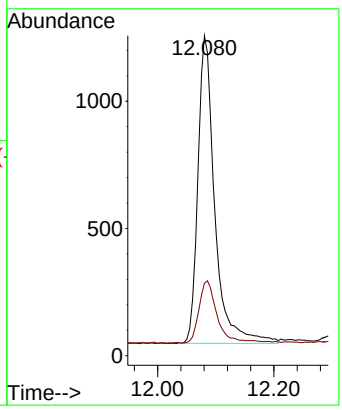
Tgt Ion:152 Resp: 243

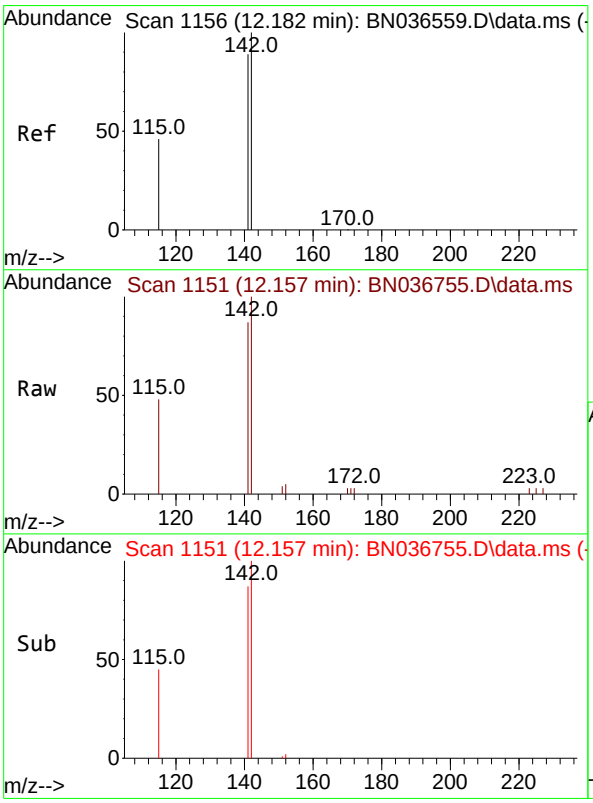
Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

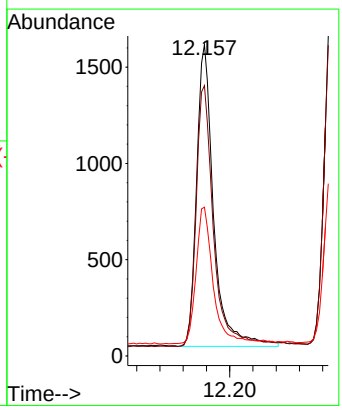


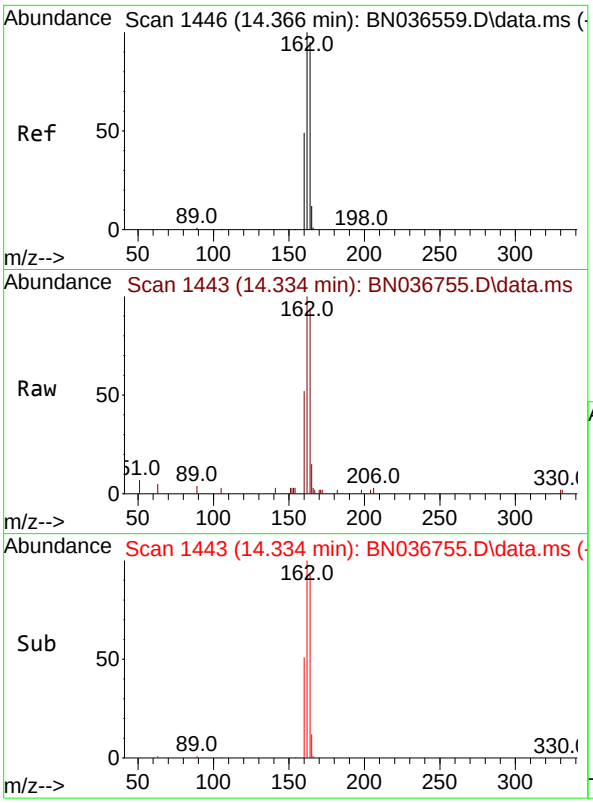


#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:142 Resp: 3191

Ion	Ratio	Lower	Upper
142	100		
141	86.8	71.7	107.5
115	47.8	38.3	57.5

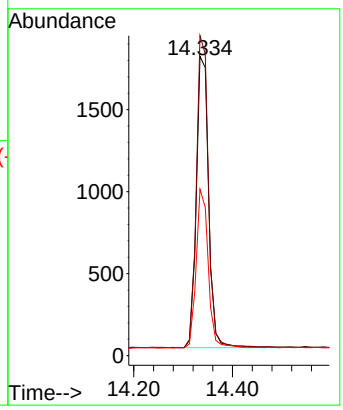




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:164 Resp: 307

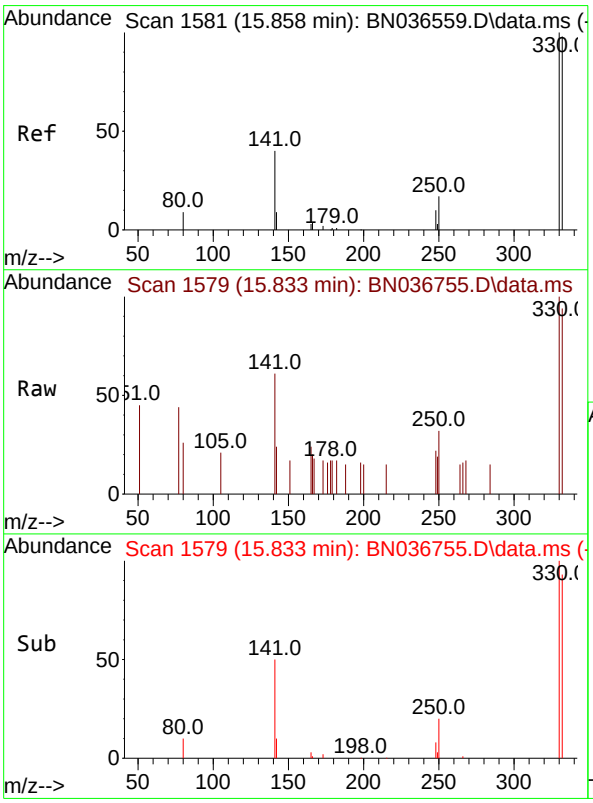
Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.2	126.2
160	55.6	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

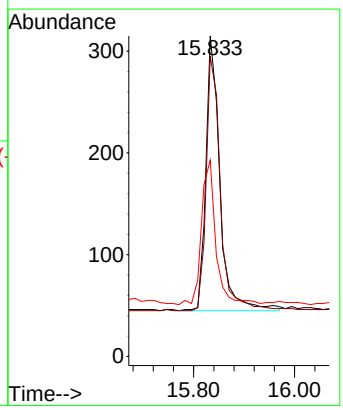
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

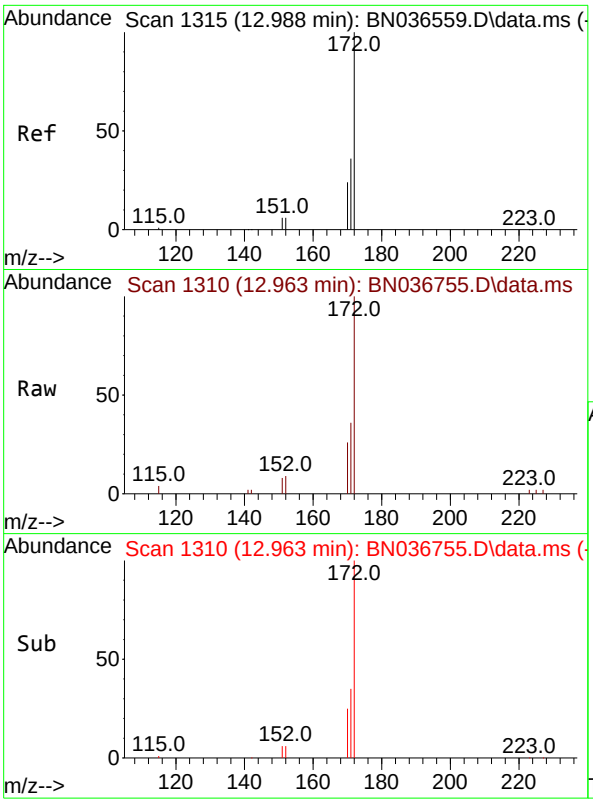


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:330 Resp: 523

Ion	Ratio	Lower	Upper
330	100		
332	93.7	75.2	112.8
141	53.5	43.4	65.2

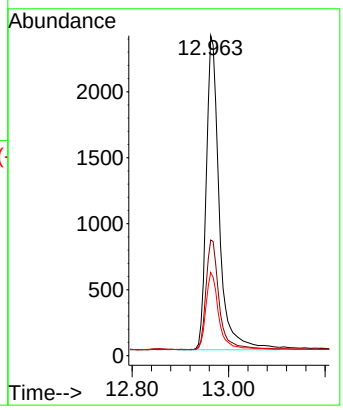




#15
2-Fluorobiphenyl
Concen: 0.319 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:172 Resp: 569

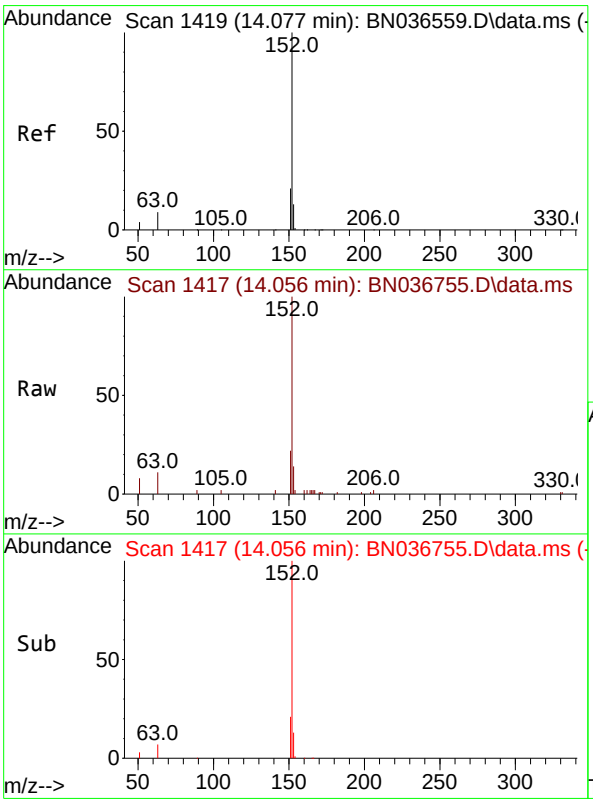
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	26.0	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

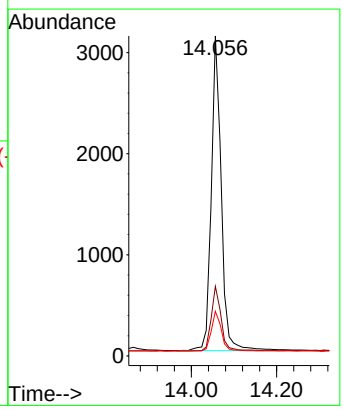
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

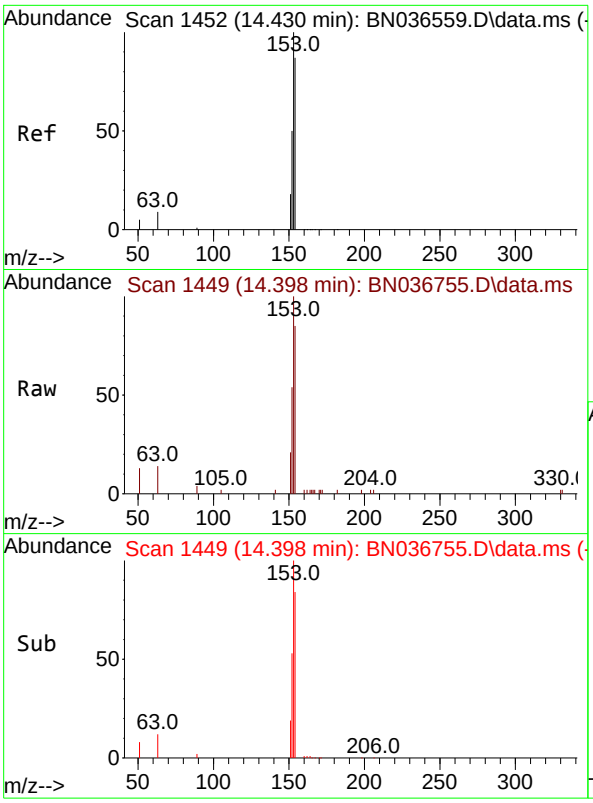


#16
Acenaphthylene
Concen: 0.349 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:152 Resp: 5054

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

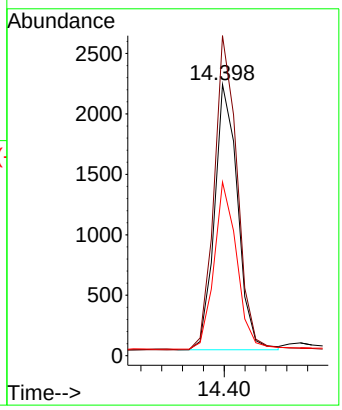




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:154 Resp: 338

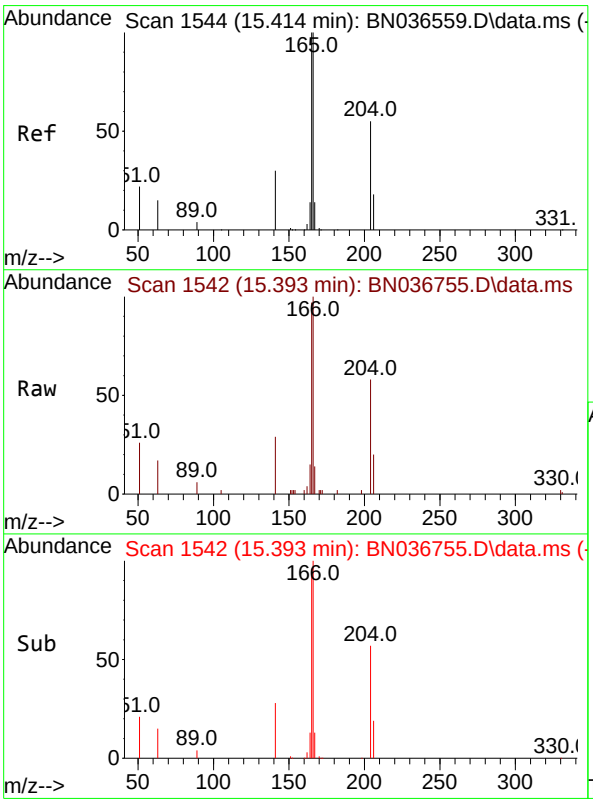
Ion	Ratio	Lower	Upper
154	100		
153	119.0	94.1	141.1
152	62.7	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

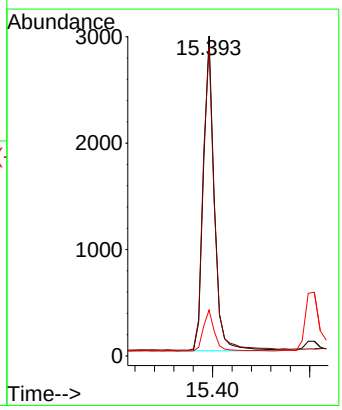
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

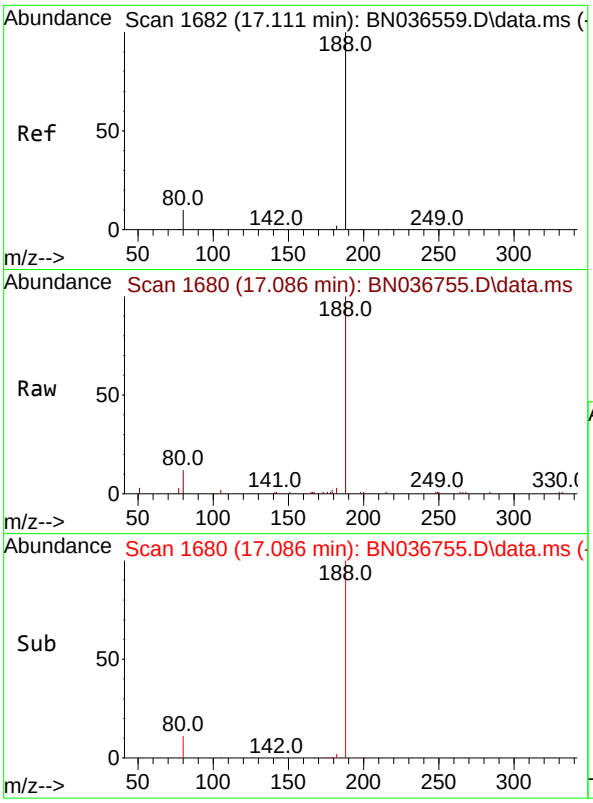


#18
Fluorene
Concen: 0.364 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:166 Resp: 4678

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.8
167	13.0	10.6	15.8

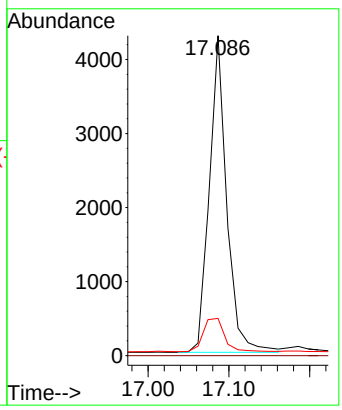




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

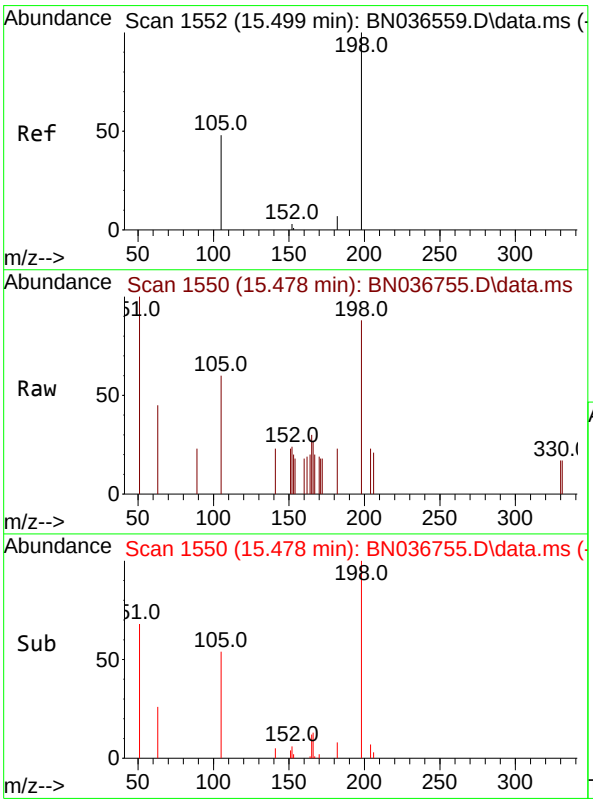
Tgt Ion:188 Resp: 641

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

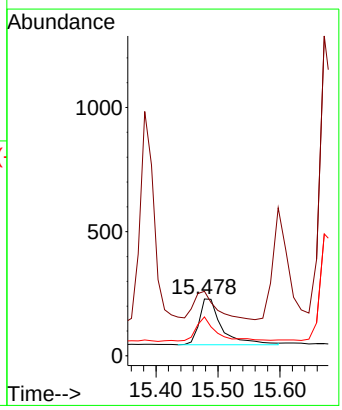
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

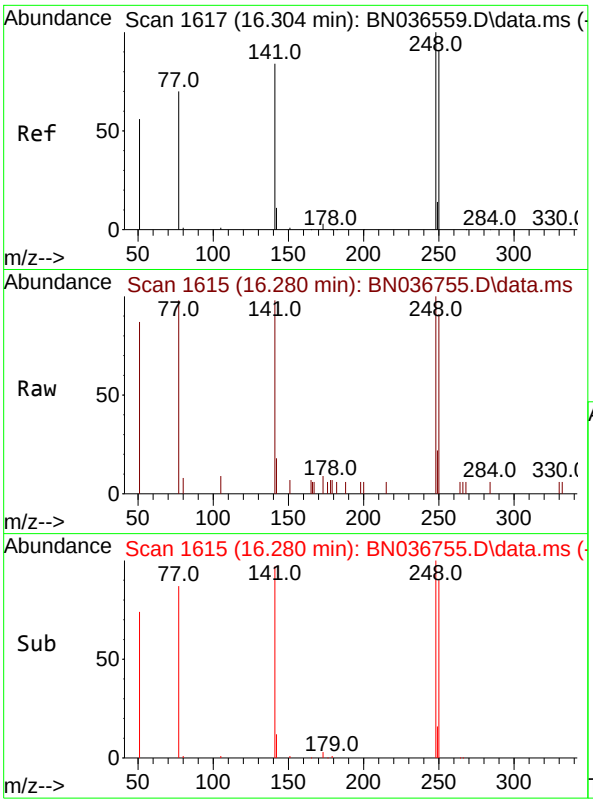


#20
4,6-Dinitro-2-methylphenol
Concen: 0.444 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:198 Resp: 489

Ion	Ratio	Lower	Upper
198	100		
51	113.5	107.9	161.9
105	68.6	56.2	84.2

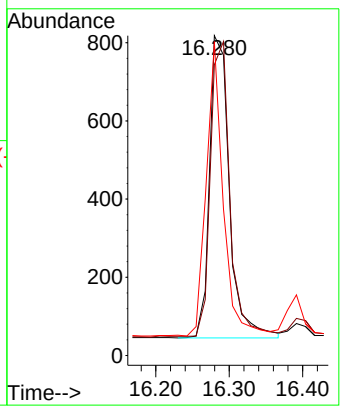




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:248 Resp: 145(

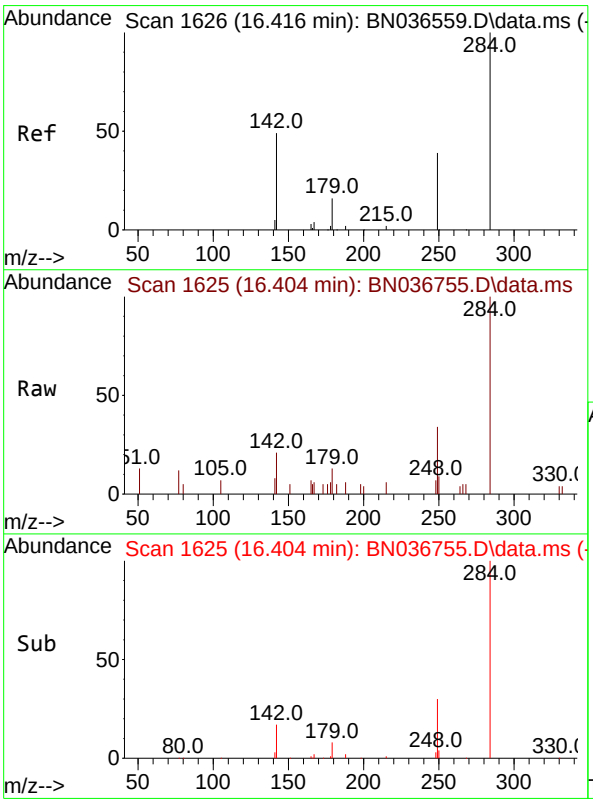
Ion	Ratio	Lower	Upper
248	100		
250	91.0	73.0	109.6
141	98.2	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

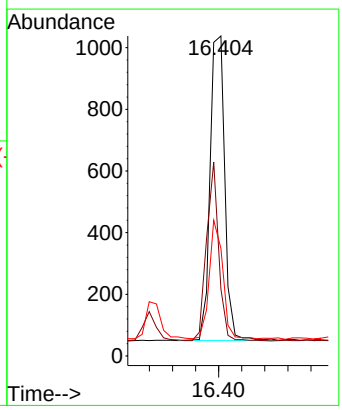
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

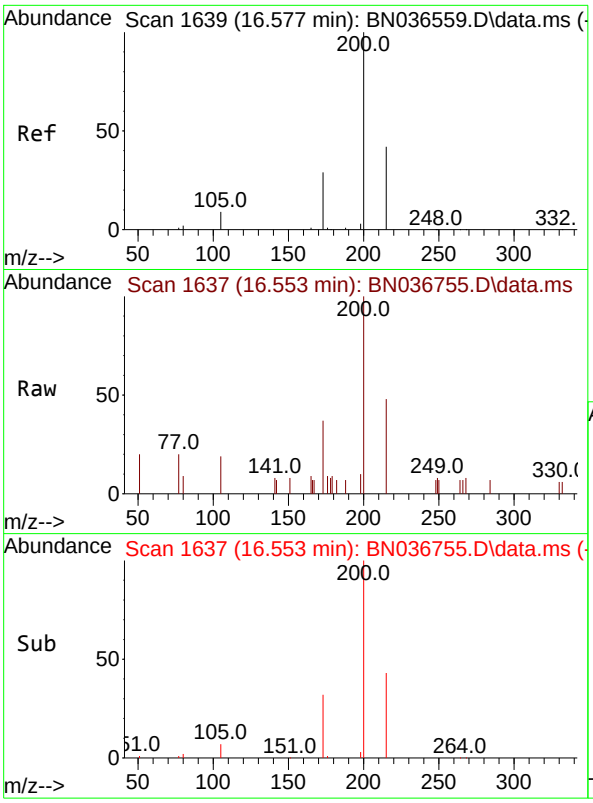


#22
Hexachlorobenzene
Concen: 0.359 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:284 Resp: 1743

Ion	Ratio	Lower	Upper
284	100		
142	48.7	37.0	55.4
249	35.6	28.1	42.1

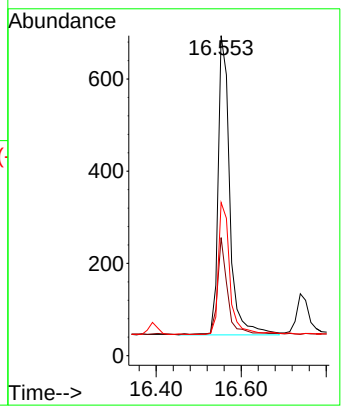




#23
Atrazine
Concen: 0.382 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:200 Resp: 123

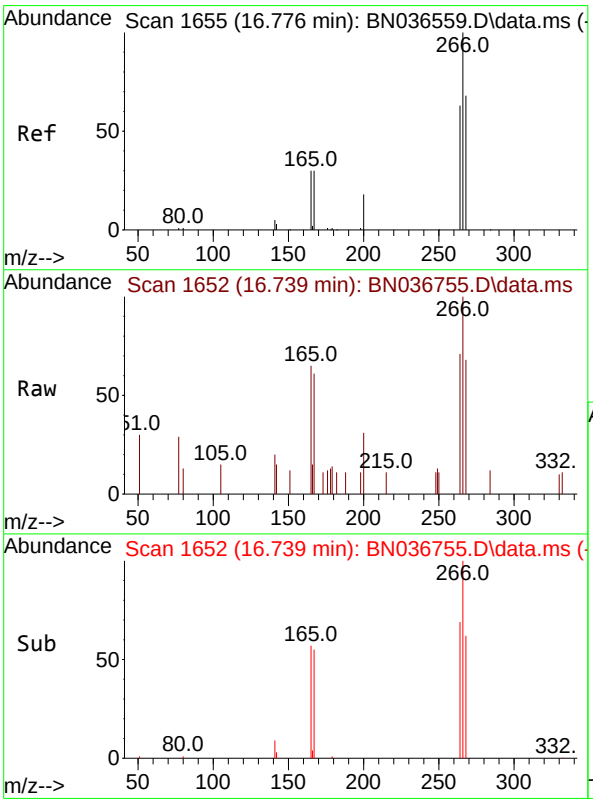
Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.8	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

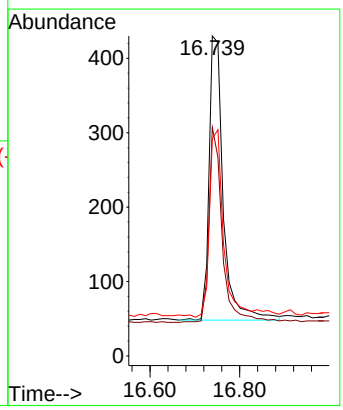
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

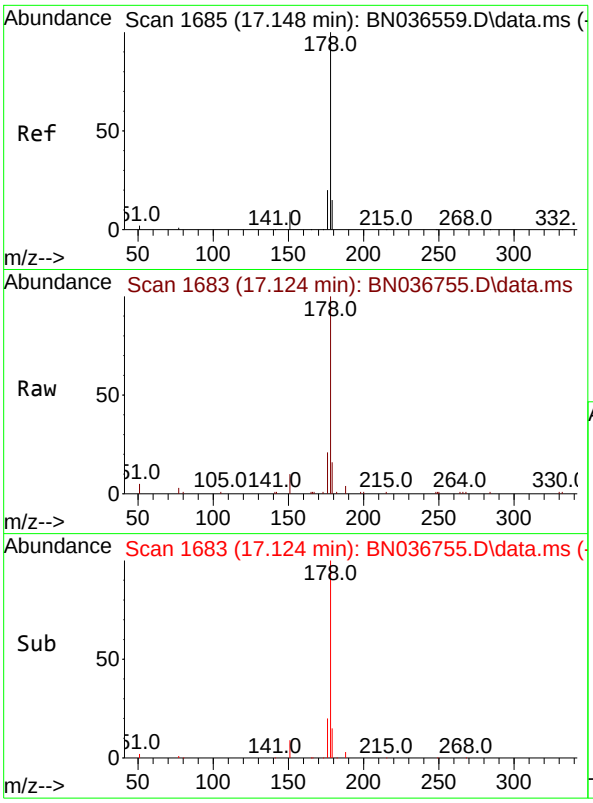


#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:266 Resp: 837

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.6	74.4
268	67.6	50.9	76.3

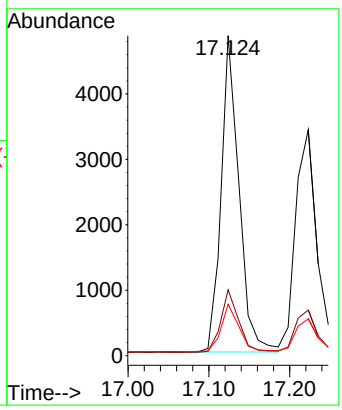




#25
Phenanthrene
Concen: 0.387 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:178 Resp: 745

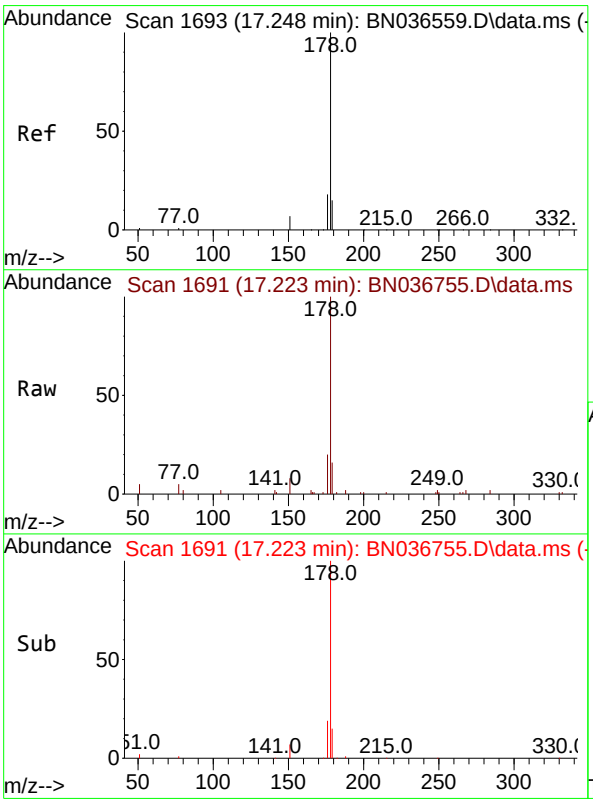
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.4	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

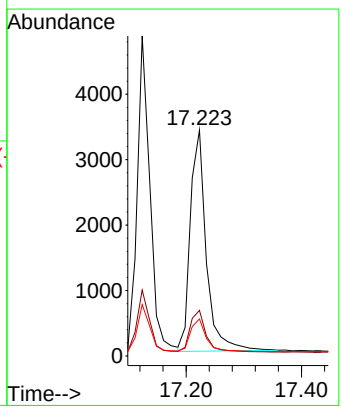
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

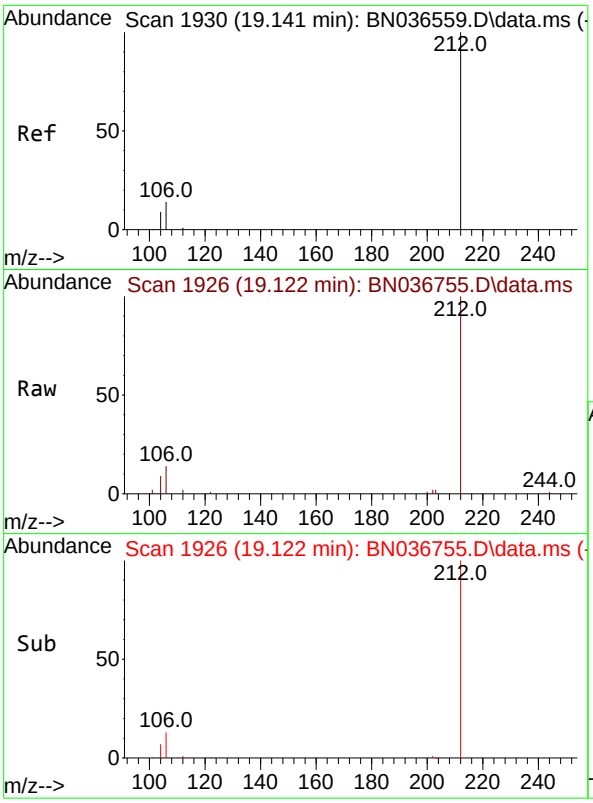


#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:178 Resp: 6503

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.2	12.6	18.8

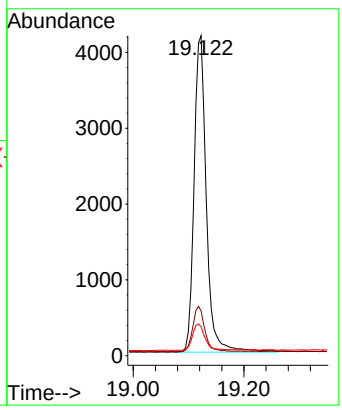




#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:212 Resp: 643

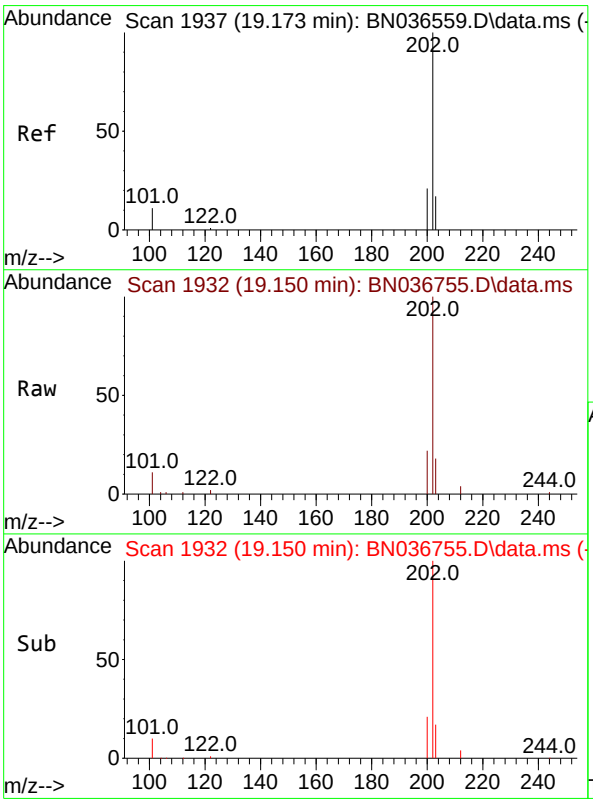
Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.8	17.6
104	8.9	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

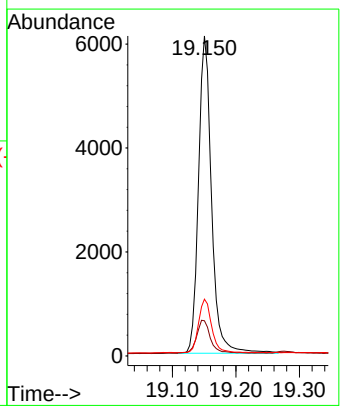
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

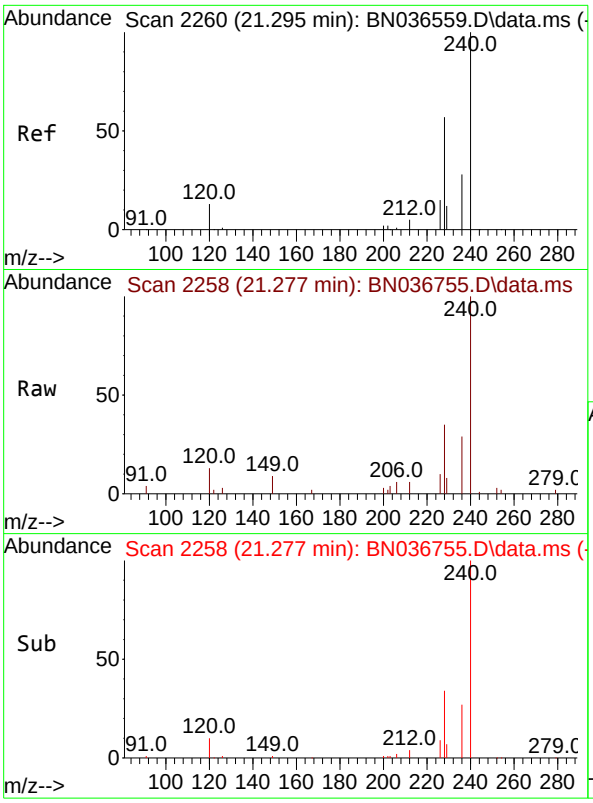


#28
Fluoranthene
Concen: 0.402 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:202 Resp: 8702

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	17.0	13.5	20.3

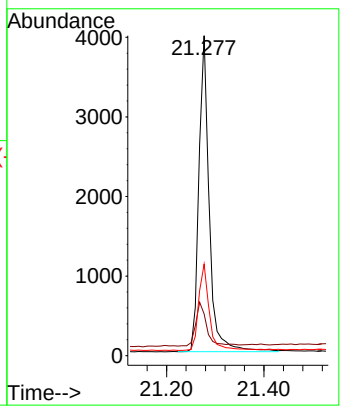




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:240 Resp: 586

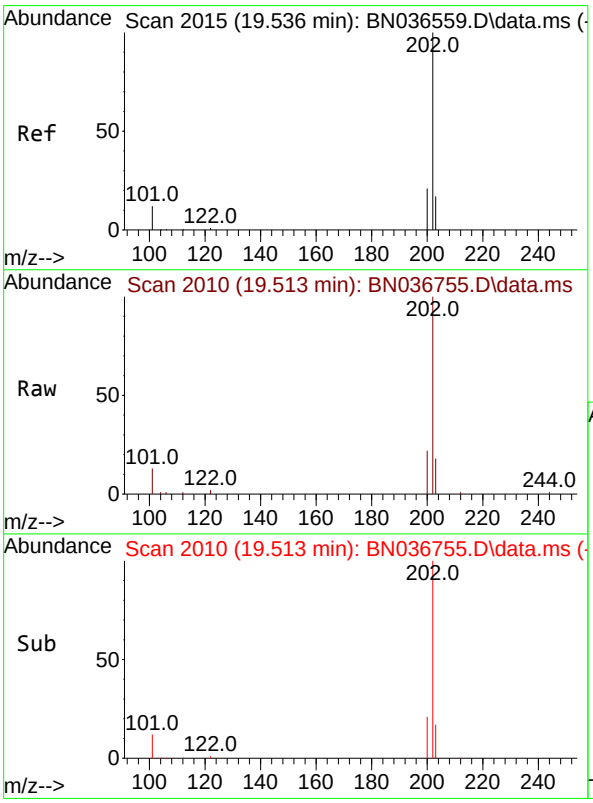
Ion	Ratio	Lower	Upper
240	100		
120	13.0	14.6	22.0#
236	28.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

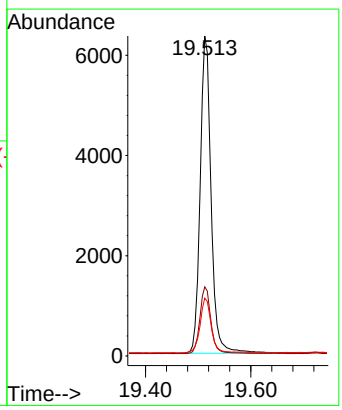
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

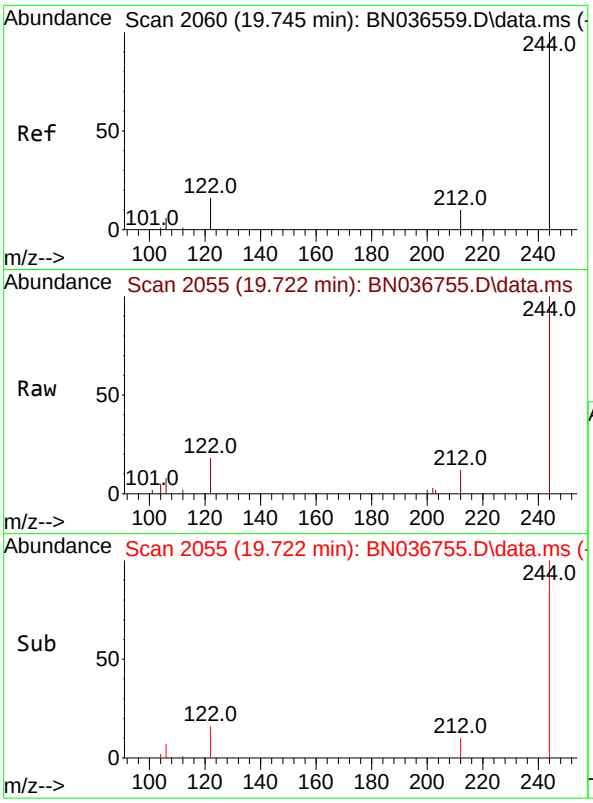


#30
Pyrene
Concen: 0.319 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:202 Resp: 9138

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.8	14.1	21.1

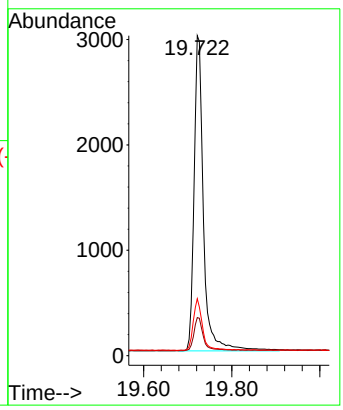




#31
Terphenyl-d14
Concen: 0.317 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:244 Resp: 444

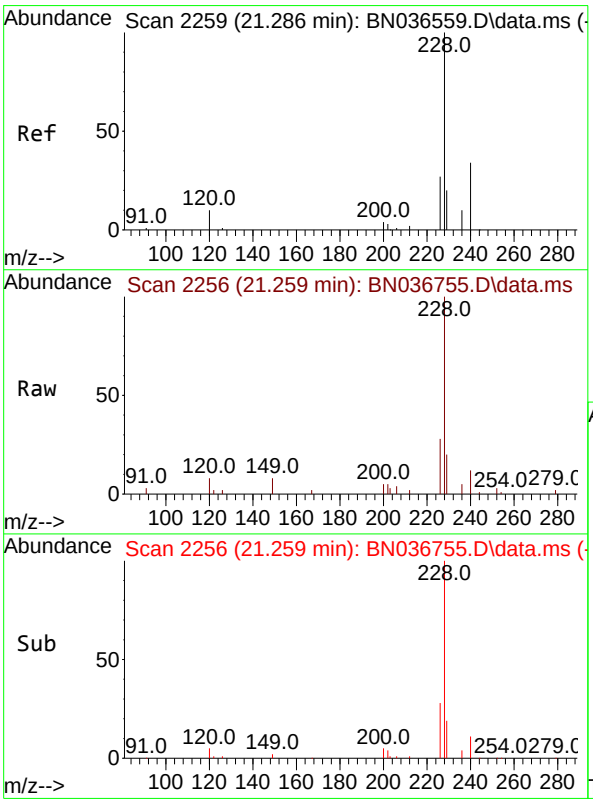
Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	17.8	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

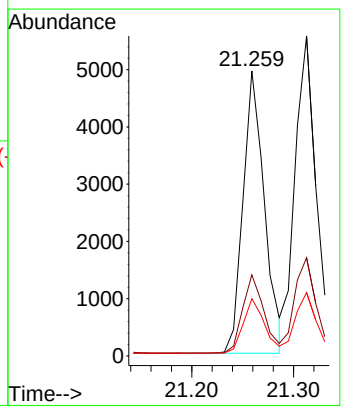
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

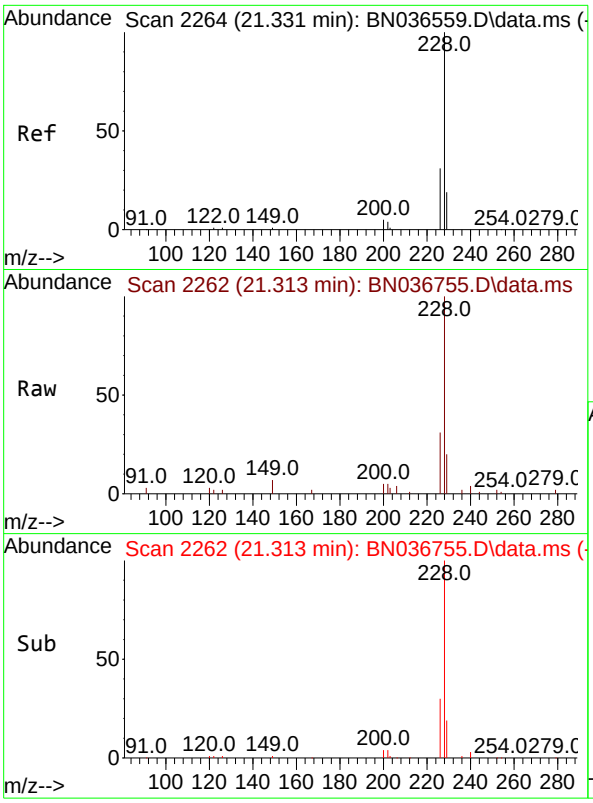


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:228 Resp: 7209

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.1	16.6	25.0





#33
Chrysene
Concen: 0.387 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

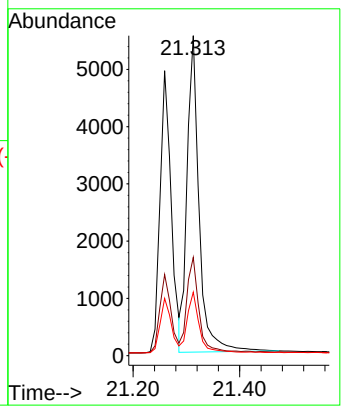
Tgt Ion:228 Resp: 861

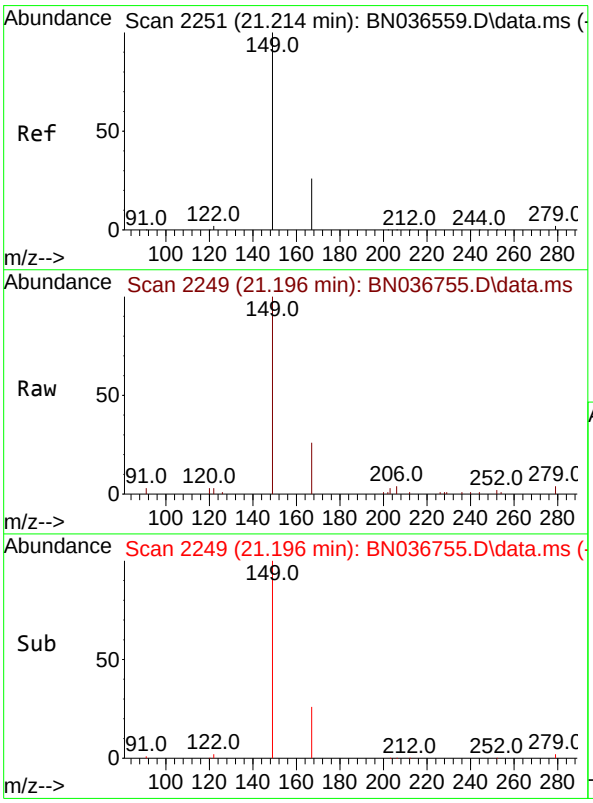
Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	19.8	15.8	23.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

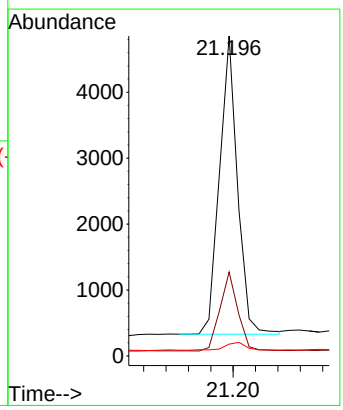


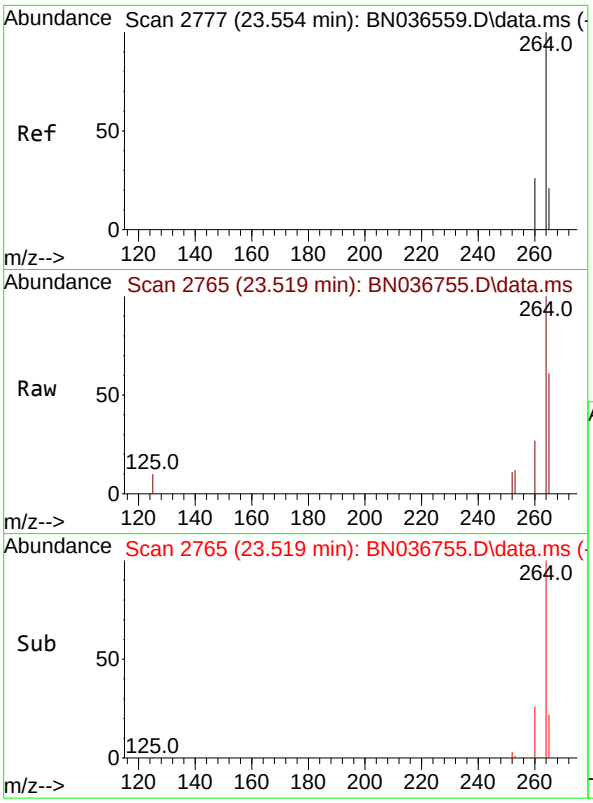


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.347 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:149 Resp: 5036

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.9	3.6	5.4#

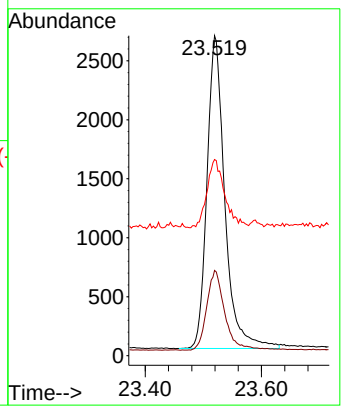




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:264 Resp: 564

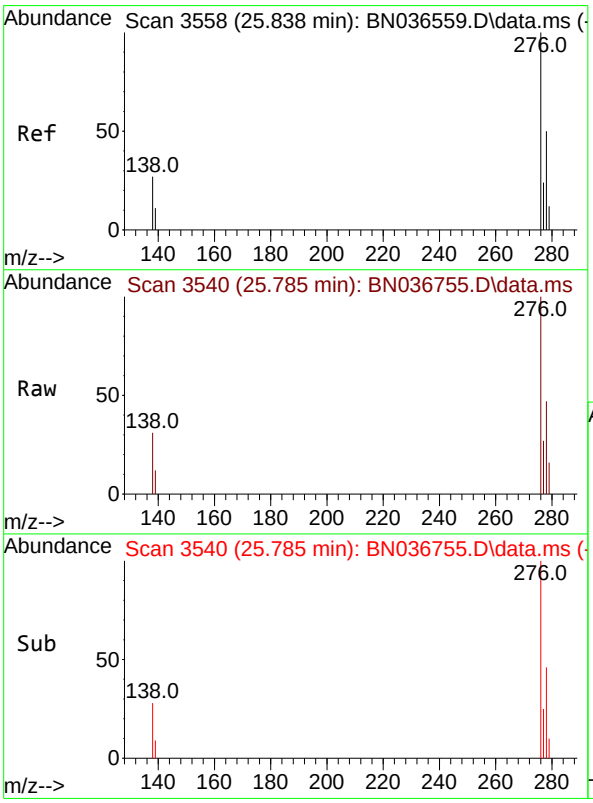
Ion	Ratio	Lower	Upper
264	100		
260	26.7	22.6	33.8
265	61.3	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

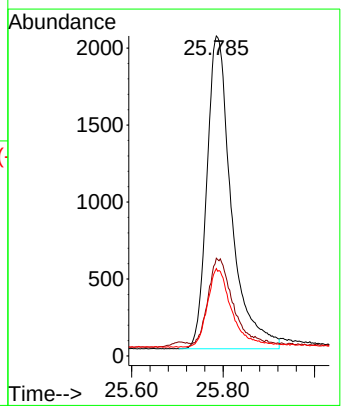
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

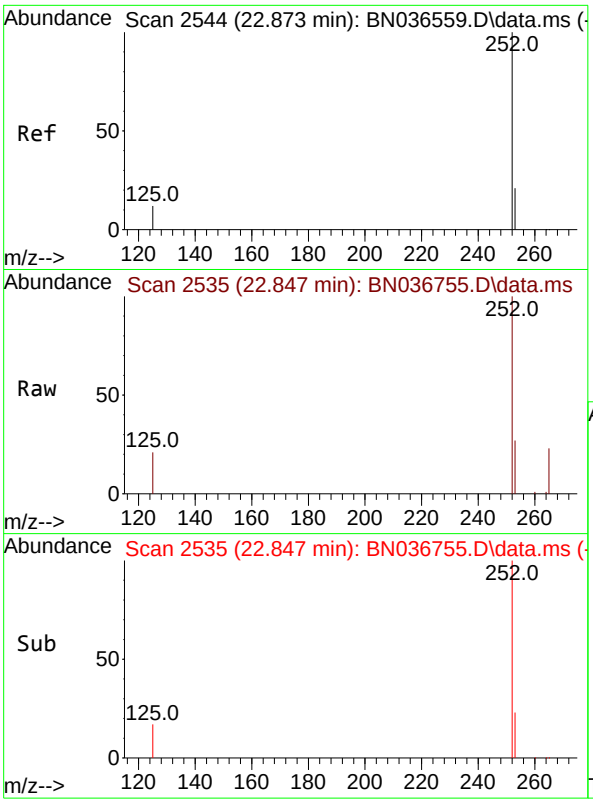


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.371 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.052 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:276 Resp: 7554

Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.4	35.2
277	24.8	20.0	30.0

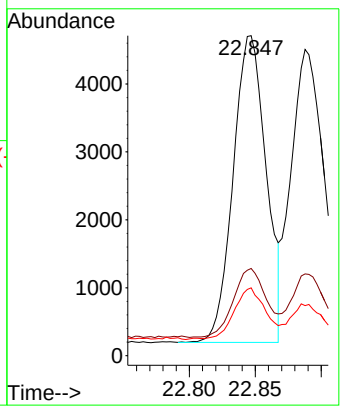




#37
Benzo(b)fluoranthene
Concen: 0.382 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:252 Resp: 785

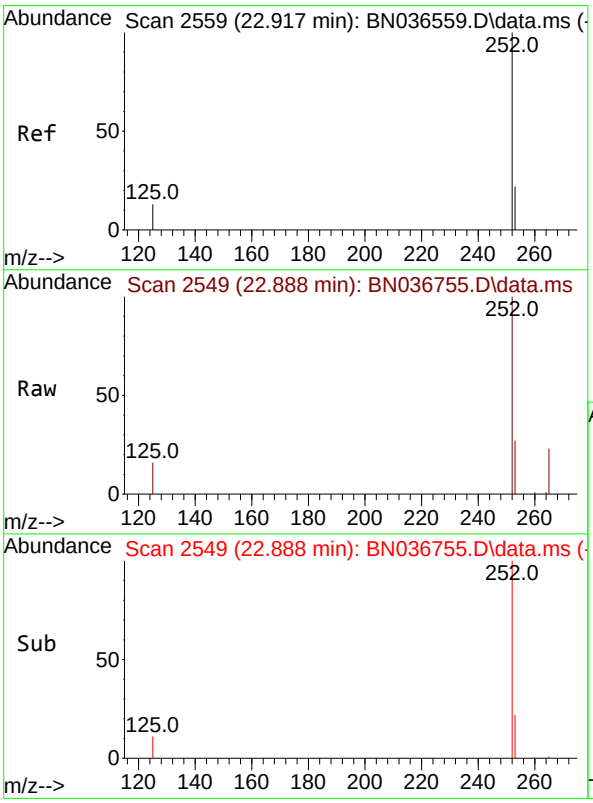
Ion	Ratio	Lower	Upper
252	100		
253	27.3	23.9	35.9
125	21.2	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

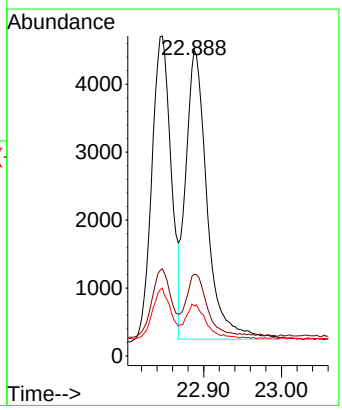
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

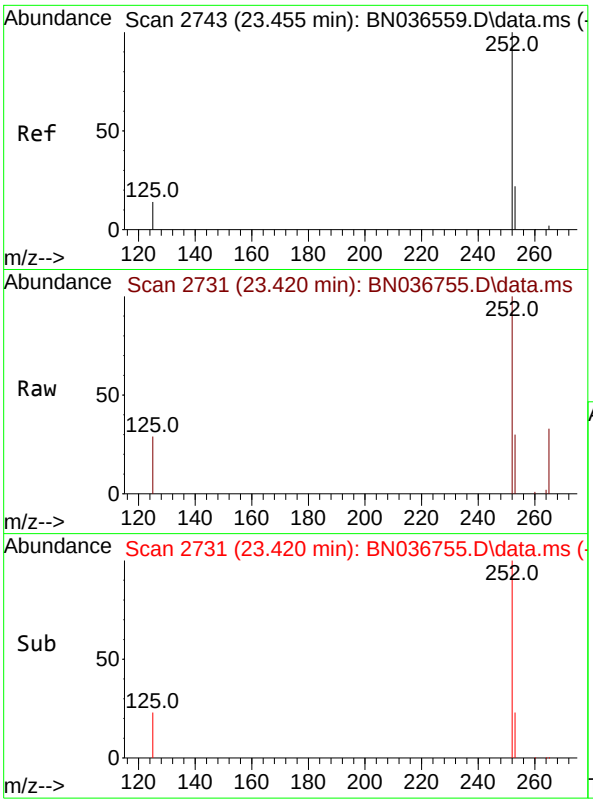


#38
Benzo(k)fluoranthene
Concen: 0.378 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:252 Resp: 8148

Ion	Ratio	Lower	Upper
252	100		
253	26.7	24.6	36.8
125	16.3	17.8	26.8#

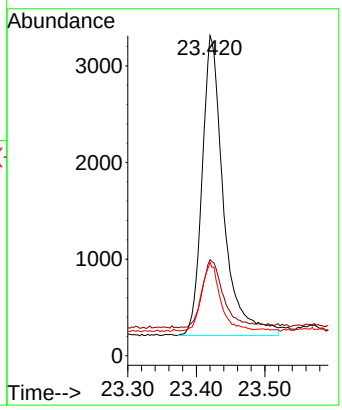




#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:252 Resp: 676

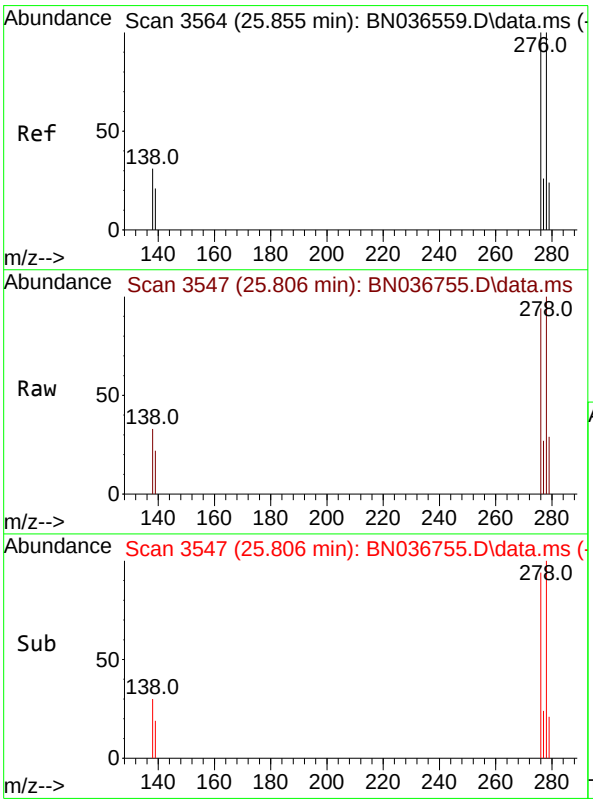
Ion	Ratio	Lower	Upper
252	100		
253	30.0	27.8	41.8
125	29.1	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

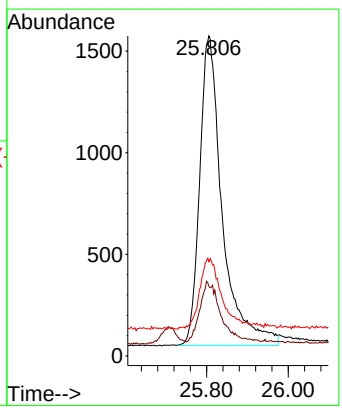
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

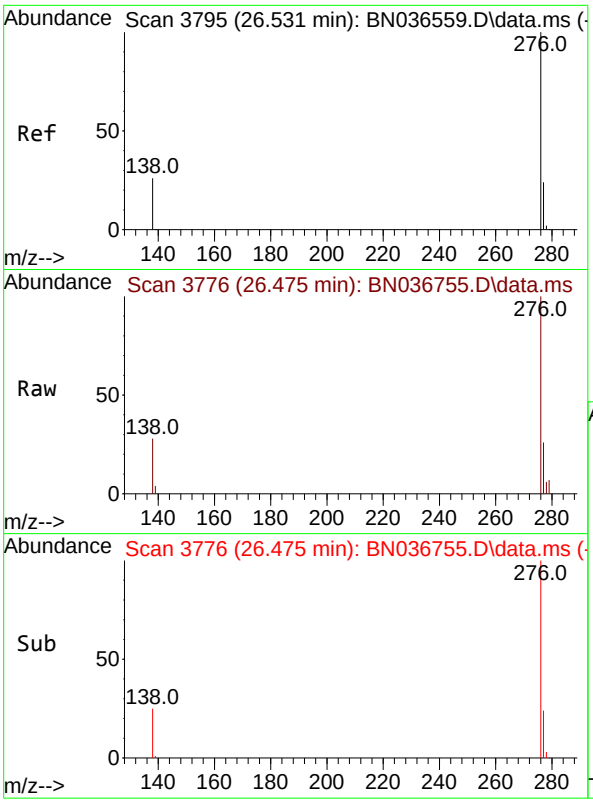


#40
Dibenzo(a,h)anthracene
Concen: 0.370 ng
RT: 25.806 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:278 Resp: 5864

Ion	Ratio	Lower	Upper
278	100		
139	21.8	20.8	31.2
279	29.5	28.8	43.2

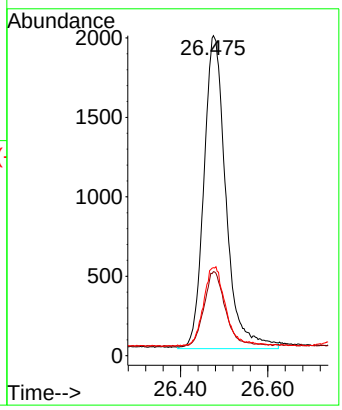




#41
Benzo(g,h,i)perylene
Concen: 0.380 ng m
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:276 Resp: 689

Ion	Ratio	Lower	Upper
276	100		
277	26.3	22.2	33.4
138	27.5	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:33 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	86	-0.02
2		1,4-Dioxane	0.444	0.464	-4.5	80	-0.01
3		n-Nitrosodimethylamine	0.898	0.887	1.2	82	-0.01
4	S	2-Fluorophenol	0.932	0.839	10.0	73	-0.02
5	S	Phenol-d6	1.152	1.005	12.8	77	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.034	13.1	75	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	93	-0.02
8	S	Nitrobenzene-d5	0.435	0.357	17.9	80	-0.02
9		Naphthalene	1.177	1.044	11.3	80	-0.03
10		Hexachlorobutadiene	0.277	0.253	8.7	80	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.516	13.3	79	-0.03
12		2-Methylnaphthalene	0.749	0.675	9.9	82	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	102	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.170	6.6	92	-0.02
15	S	2-Fluorobiphenyl	2.327	1.853	20.4	78	-0.03
16		Acenaphthylene	1.888	1.645	12.9	86	-0.02
17		Acenaphthene	1.236	1.101	10.9	87	-0.03
18		Fluorene	1.672	1.522	9.0	88	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	107	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.076	11.6	106	-0.02
21		4-Bromophenyl-phenylether	0.251	0.227	9.6	89	-0.02
22		Hexachlorobenzene	0.303	0.272	10.2	86	-0.01
23		Atrazine	0.201	0.192	4.5	96	-0.02
24		Pentachlorophenol	0.138	0.130	5.8	102	-0.04
25		Phenanthrene	1.200	1.161	3.2	96	-0.02
26		Anthracene	1.083	1.013	6.5	94	-0.02
27	SURR	Fluoranthene-d10	1.025	1.003	2.1	96	-0.02
28		Fluoranthene	1.348	1.356	-0.6	100	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	143	-0.02
30		Pyrene	1.956	1.559	20.3	104	-0.02
31	S	Terphenyl-d14	0.958	0.759	20.8	105	-0.02
32		Benzo(a)anthracene	1.391	1.230	11.6	122	-0.03
33		Chrysene	1.520	1.471	3.2	130	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.859	13.2	117	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	160#	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.338	7.3	138	-0.05
37		Benzo(b)fluoranthene	1.456	1.390	4.5	143	-0.03
38		Benzo(k)fluoranthene	1.527	1.443	5.5	142	-0.03
39	C	Benzo(a)pyrene	1.226	1.197	2.4	147	-0.03
40		Dibenzo(a,h)anthracene	1.124	1.038	7.7	142	-0.05
41		Benzo(g,h,i)perylene	1.286	1.220	5.1	141	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:33 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	86	-0.02
2		1,4-Dioxane	0.400	0.418	-4.5	80	-0.01
3		n-Nitrosodimethylamine	0.400	0.395	1.3	82	-0.01
4	S	2-Fluorophenol	0.400	0.360	10.0	73	-0.02
5	S	Phenol-d6	0.400	0.349	12.8	77	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.347	13.3	75	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	93	-0.02
8	S	Nitrobenzene-d5	0.400	0.328	18.0	80	-0.02
9		Naphthalene	0.400	0.355	11.3	80	-0.03
10		Hexachlorobutadiene	0.400	0.365	8.8	80	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.347	13.3	79	-0.03
12		2-Methylnaphthalene	0.400	0.361	9.8	82	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	102	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.375	6.3	92	-0.02
15	S	2-Fluorobiphenyl	0.400	0.319	20.3	78	-0.03
16		Acenaphthylene	0.400	0.349	12.8	86	-0.02
17		Acenaphthene	0.400	0.356	11.0	87	-0.03
18		Fluorene	0.400	0.364	9.0	88	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	107	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.444	-11.0	106	-0.02
21		4-Bromophenyl-phenylether	0.400	0.362	9.5	89	-0.02
22		Hexachlorobenzene	0.400	0.359	10.3	86	-0.01
23		Atrazine	0.400	0.382	4.5	96	-0.02
24		Pentachlorophenol	0.400	0.378	5.5	102	-0.04
25		Phenanthrene	0.400	0.387	3.3	96	-0.02
26		Anthracene	0.400	0.374	6.5	94	-0.02
27	SURR	Fluoranthene-d10	0.400	0.391	2.3	96	-0.02
28		Fluoranthene	0.400	0.402	-0.5	100	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	143	-0.02
30		Pyrene	0.400	0.319	20.3	104	-0.02
31	S	Terphenyl-d14	0.400	0.317	20.8	105	-0.02
32		Benzo(a)anthracene	0.400	0.354	11.5	122	-0.03
33		Chrysene	0.400	0.387	3.3	130	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.347	13.3	117	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	160	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.371	7.3	138	-0.05
37		Benzo(b)fluoranthene	0.400	0.382	4.5	143	-0.03
38		Benzo(k)fluoranthene	0.400	0.378	5.5	142	-0.03
39	C	Benzo(a)pyrene	0.400	0.391	2.3	147	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.370	7.5	142	-0.05
41		Benzo(g,h,i)perylene	0.400	0.380	5.0	141	-0.06

(#) = 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: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG No.: Q1608

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 03:46

Lab File ID: BN036757.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	0.509		-14.5	20.0
Fluoranthene-d10	1.025	1.053		2.7	20.0
2-Fluorophenol	0.932	0.782		-16.1	20.0
Phenol-d6	1.152	0.986		-14.4	20.0
Nitrobenzene-d5	0.435	0.370		-14.9	20.0
2-Fluorobiphenyl	2.327	2.013		-13.5	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Terphenyl-d14	0.958	0.749		-21.8	20.0
1,4-Dioxane	0.444	0.442		-0.4	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\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 28 05:36:56 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 :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1974	0.400	ng		-0.02
7) Naphthalene-d8	10.488	136	4607	0.400	ng		-0.02
13) Acenaphthene-d10	14.334	164	2750	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5937	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5680	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	5140	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1543	0.335	ng		-0.02
5) Phenol-d6	6.872	99	1947	0.343	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1705	0.340	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2347	0.342	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	507	0.406	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5537	0.346	ng		-0.03
27) Fluoranthene-d10	19.118	212	6252	0.411	ng		-0.02
31) Terphenyl-d14	19.722	244	4254	0.313	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	873	0.399	ng		97
3) n-Nitrosodimethylamine	3.536	42	1735	0.392	ng		95
6) bis(2-Chloroethyl)ether	7.125	93	2072	0.353	ng		98
9) Naphthalene	10.530	128	4865	0.359	ng		99
10) Hexachlorobutadiene	10.829	225	1140	0.357	ng	#	99
12) 2-Methylnaphthalene	12.157	142	3049	0.354	ng		98
16) Acenaphthylene	14.056	152	4680	0.361	ng		99
17) Acenaphthene	14.398	154	3124	0.368	ng		100
18) Fluorene	15.393	166	4263	0.371	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	472	0.457	ng		83
21) 4-Bromophenyl-phenylether	16.280	248	1382	0.372	ng		91
22) Hexachlorobenzene	16.391	284	1636	0.364	ng		97
23) Atrazine	16.553	200	1154	0.387	ng		97
24) Pentachlorophenol	16.739	266	868	0.424	ng		97
25) Phenanthrene	17.124	178	6866	0.386	ng		100
26) Anthracene	17.223	178	6014	0.374	ng		99
28) Fluoranthene	19.150	202	8476	0.424	ng		99
30) Pyrene	19.513	202	9024	0.325	ng		100
32) Benzo(a)anthracene	21.259	228	7146	0.362	ng		99
33) Chrysene	21.313	228	8272	0.383	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5431	0.386	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	7314	0.394	ng		95
37) Benzo(b)fluoranthene	22.841	252	7293	0.390	ng		95
38) Benzo(k)fluoranthene	22.888	252	7751m	0.395	ng		
39) Benzo(a)pyrene	23.420	252	6291	0.399	ng		95
40) Dibenzo(a,h)anthracene	25.803	278	5522	0.382	ng		91
41) Benzo(g,h,i)perylene	26.475	276	6376	0.386	ng		94

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

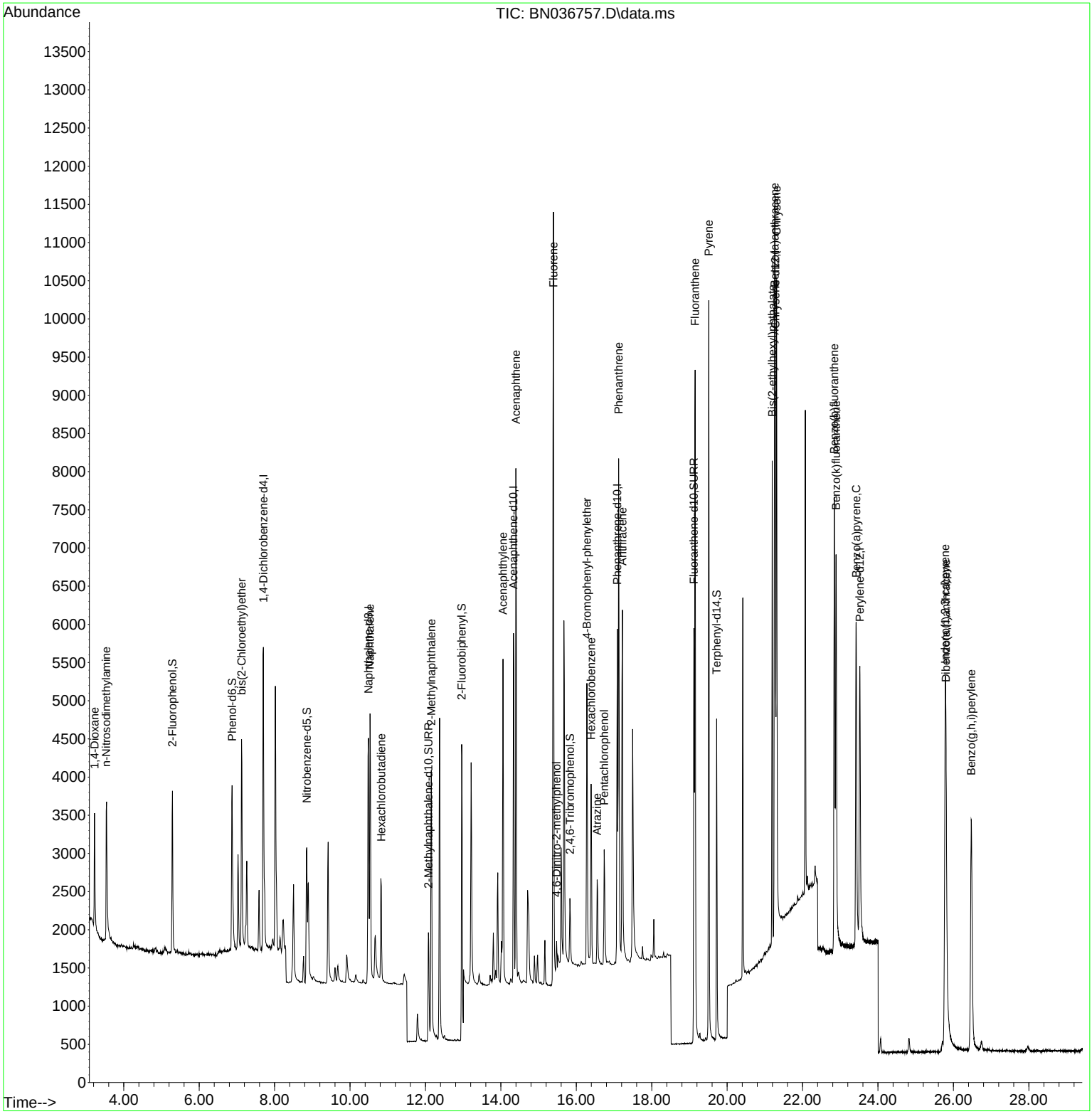
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

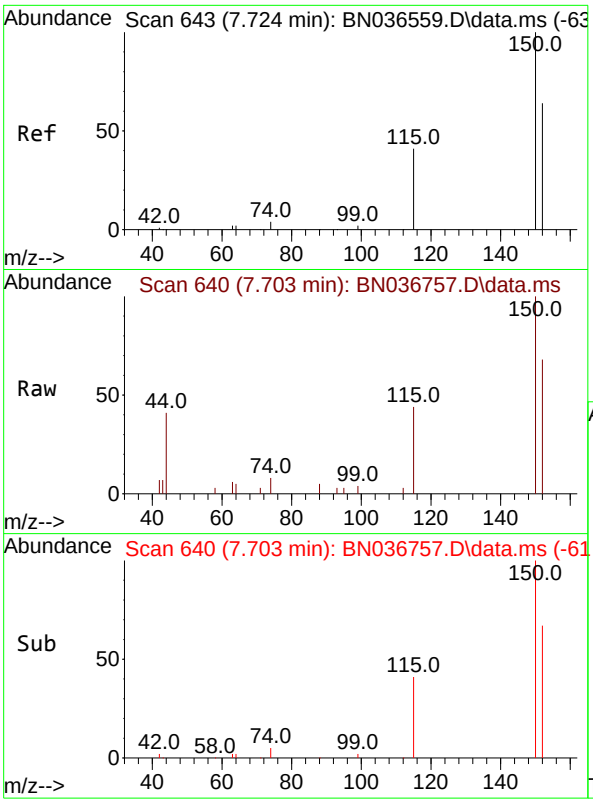
Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

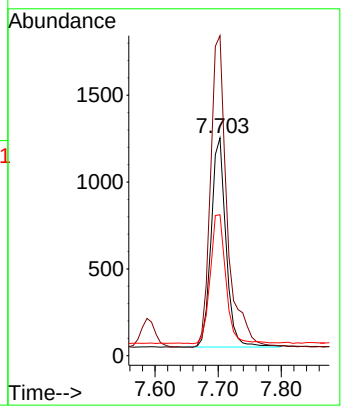




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 197

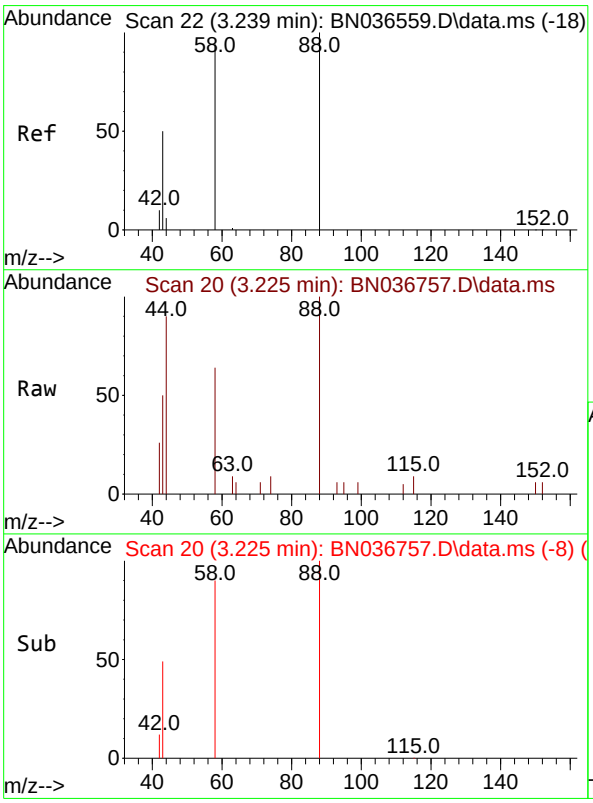
Ion	Ratio	Lower	Upper
152	100		
150	147.0	123.7	185.5
115	64.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

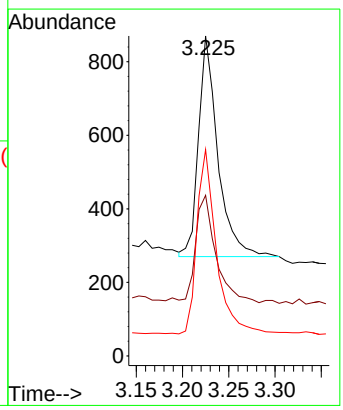
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

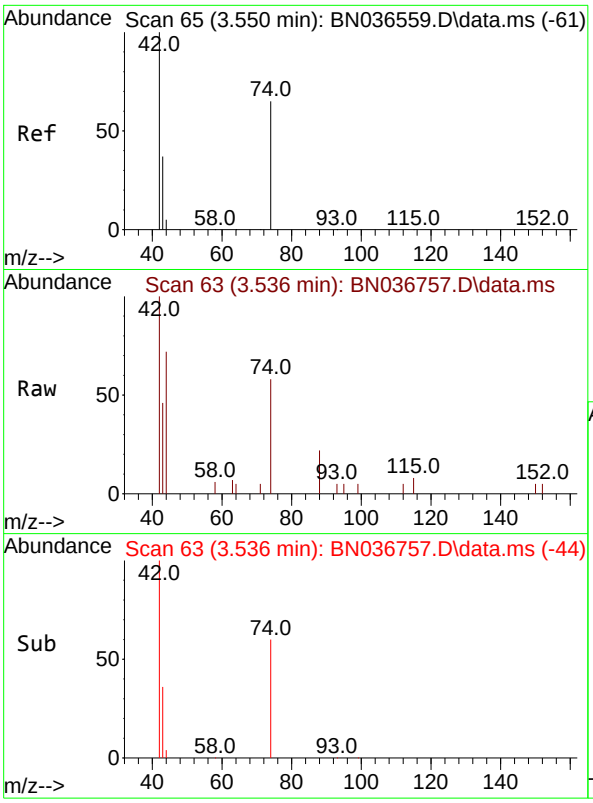


#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 88 Resp: 873

Ion	Ratio	Lower	Upper
88	100		
43	51.8	37.8	56.8
58	83.6	67.4	101.2

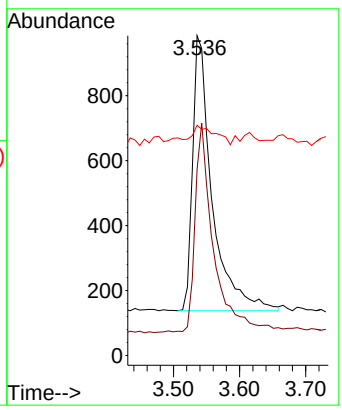




#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 42 Resp: 173

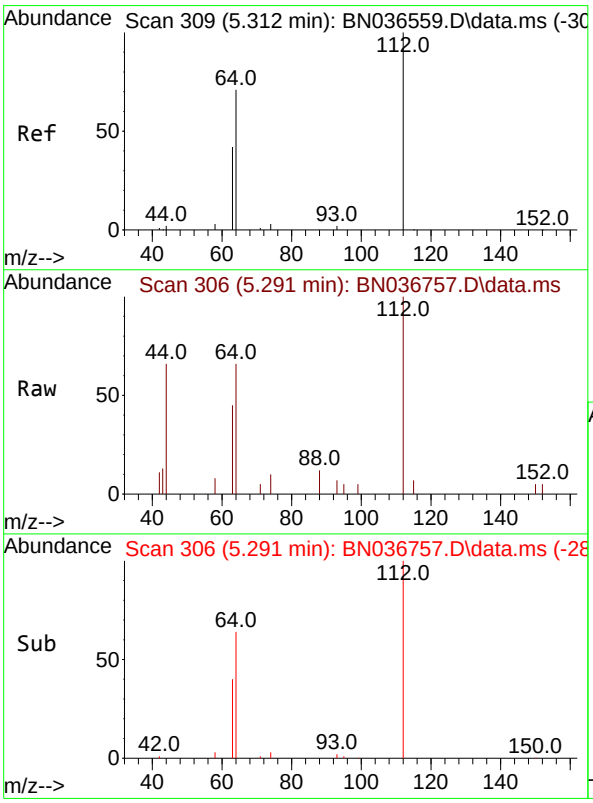
Ion	Ratio	Lower	Upper
42	100		
74	70.8	60.6	90.8
44	8.1	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

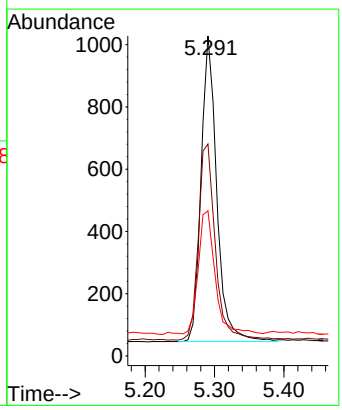
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

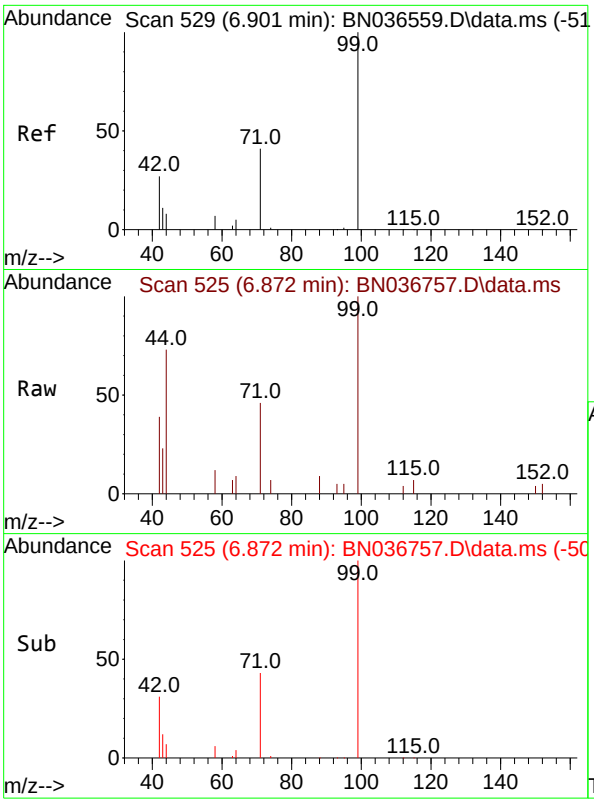


#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:112 Resp: 1543

Ion	Ratio	Lower	Upper
112	100		
64	69.8	53.1	79.7
63	43.0	31.8	47.8

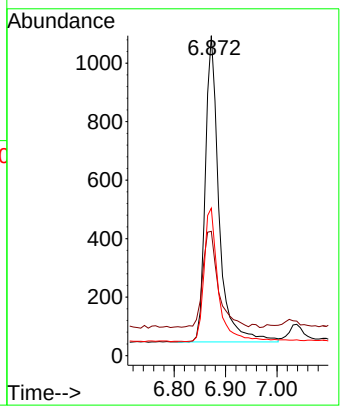




#5
Phenol-d6
Concen: 0.343 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 99 Resp: 194

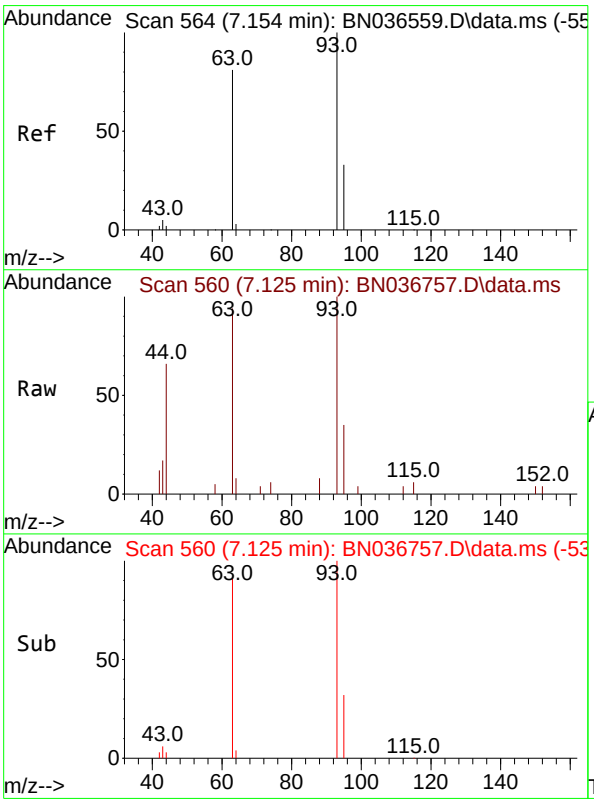
Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	46.1	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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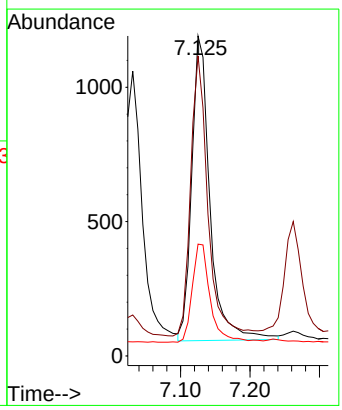
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

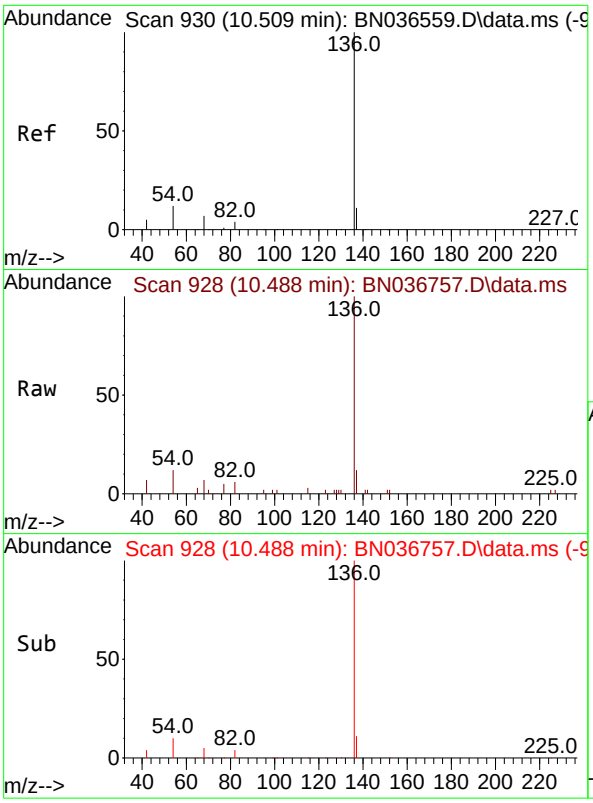


#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 93 Resp: 2072

Ion	Ratio	Lower	Upper
93	100		
63	86.9	67.7	101.5
95	31.7	25.6	38.4

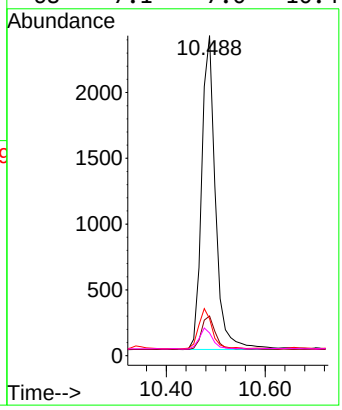




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:136 Resp: 460

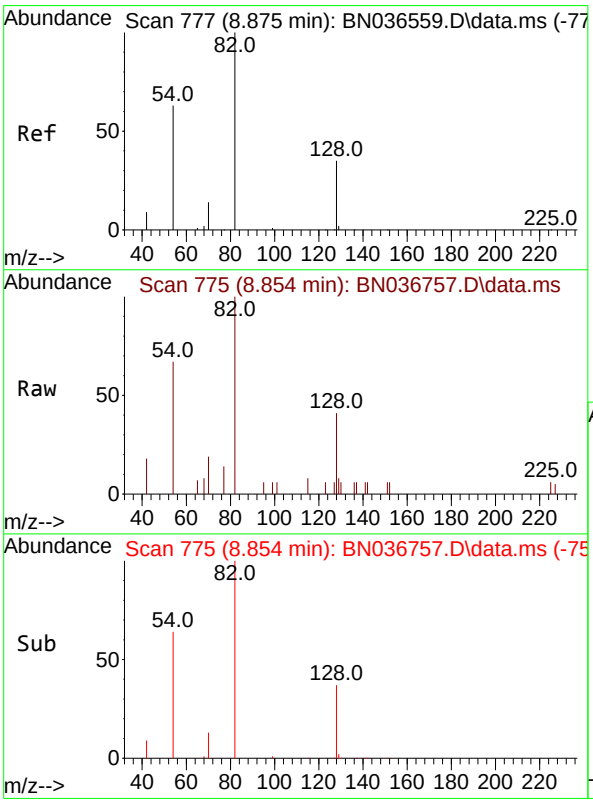
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.6	11.5	17.3
68	7.1	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

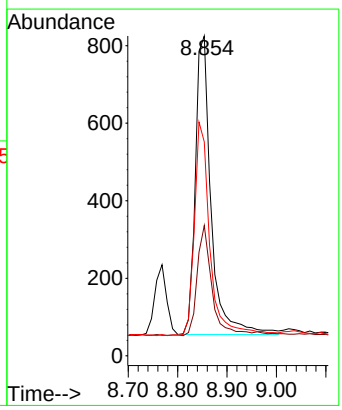
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

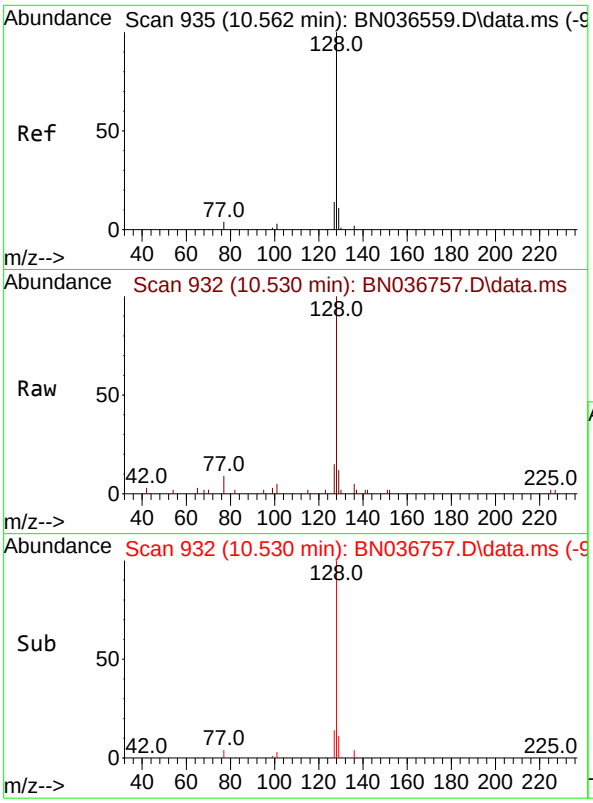


#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 82 Resp: 1705

Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	66.9	52.2	78.4

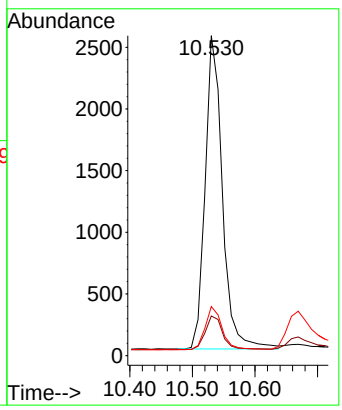




#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:128 Resp: 486

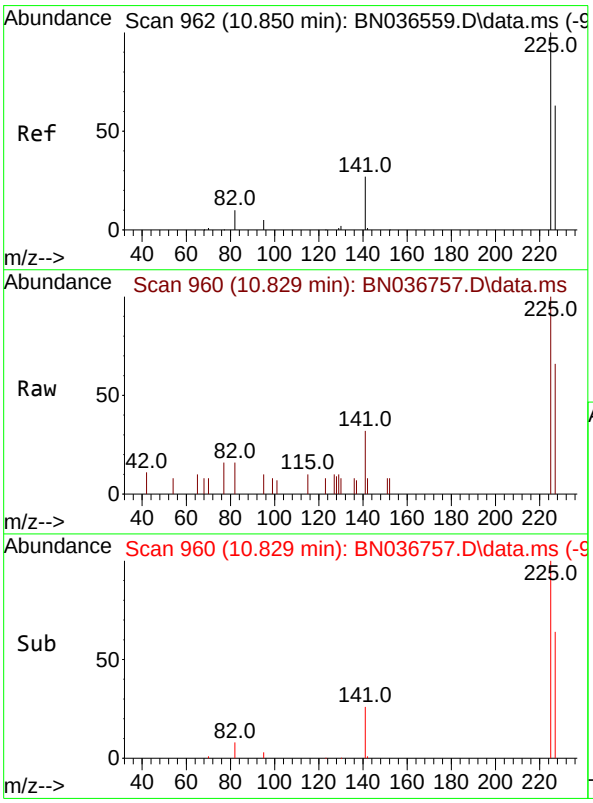
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.3	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

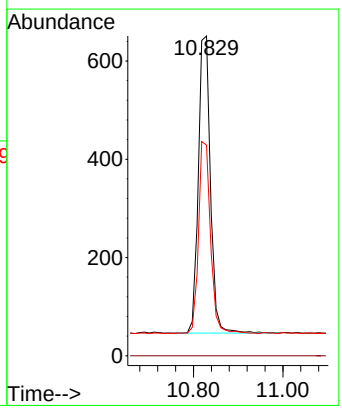
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

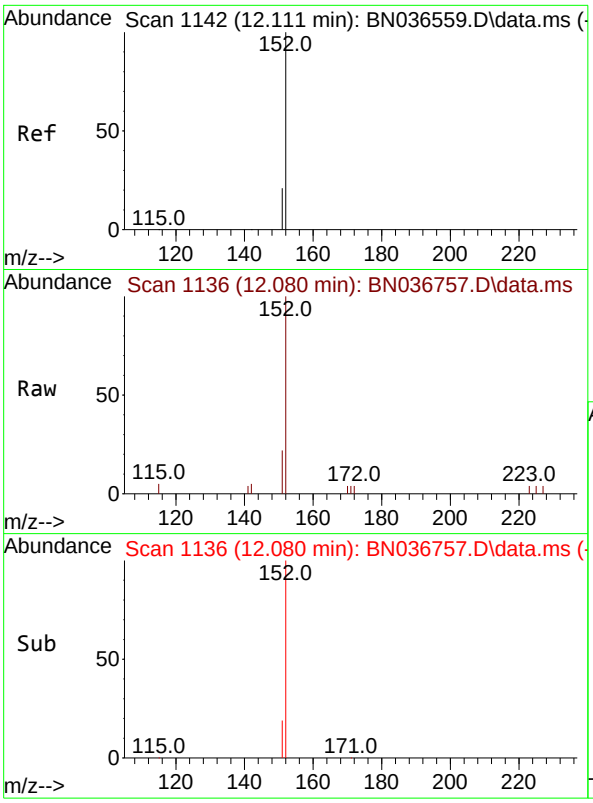


#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:225 Resp: 1140

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: 0.342 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

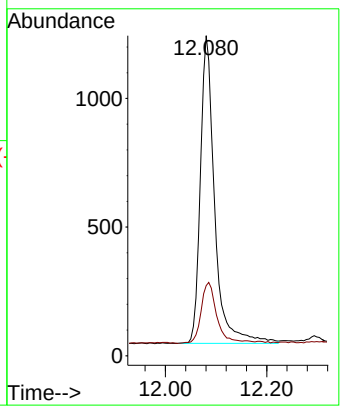
Tgt Ion:152 Resp: 234

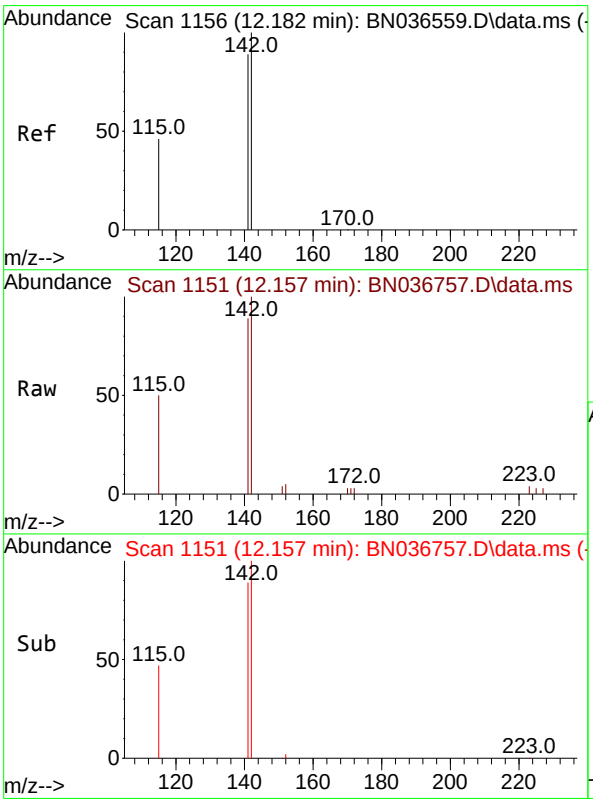
Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

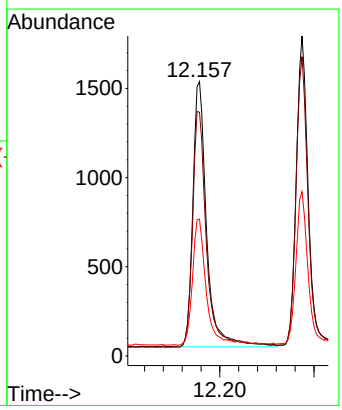


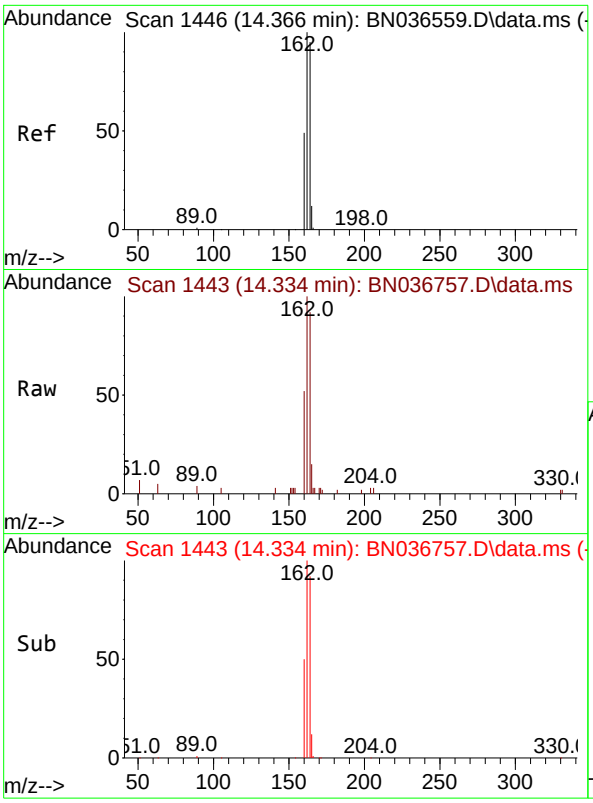


#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:142 Resp: 3049

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.7	107.5
115	49.9	38.3	57.5

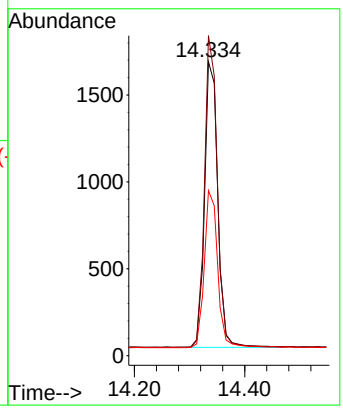




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:164 Resp: 275

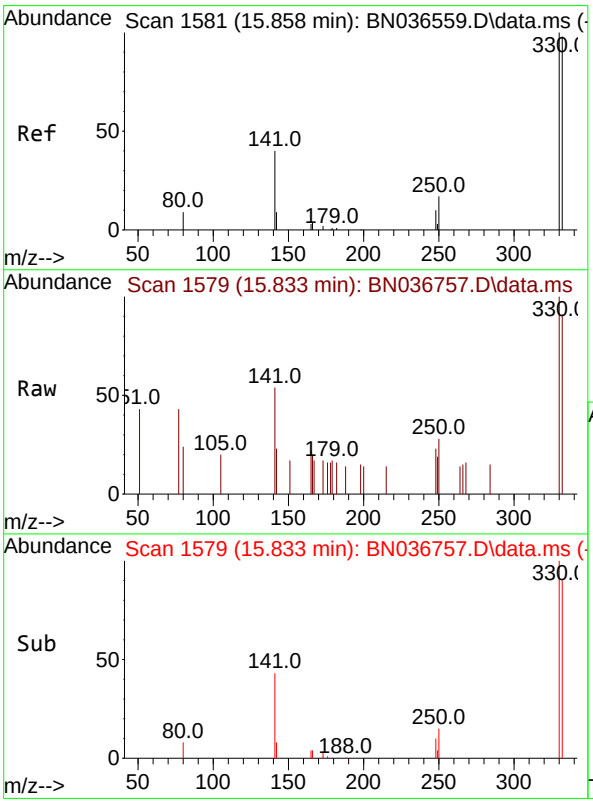
Ion	Ratio	Lower	Upper
164	100		
162	108.9	84.2	126.2
160	56.2	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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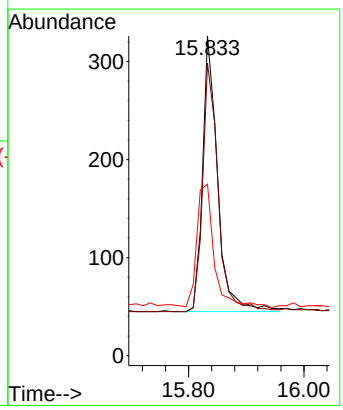
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

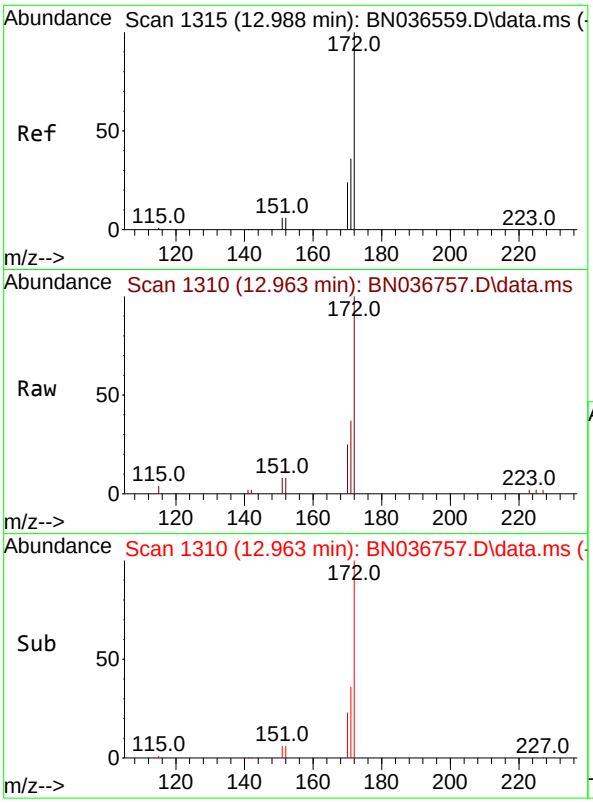


#14
2,4,6-Tribromophenol
Concen: 0.406 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:330 Resp: 507

Ion	Ratio	Lower	Upper
330	100		
332	92.9	75.2	112.8
141	52.3	43.4	65.2

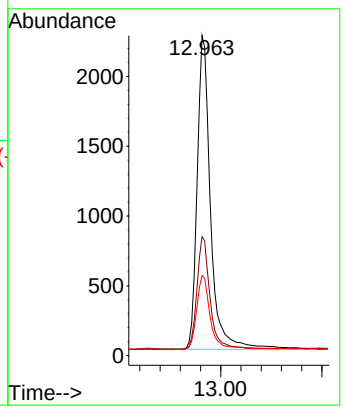




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:172 Resp: 553

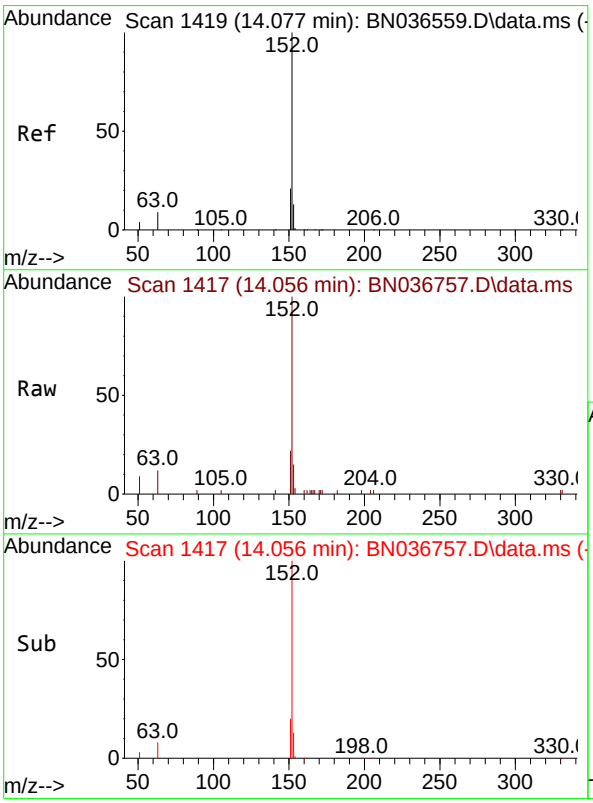
Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.0	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

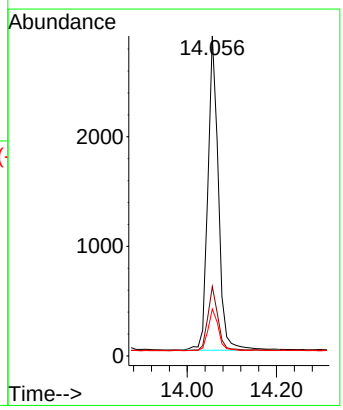
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

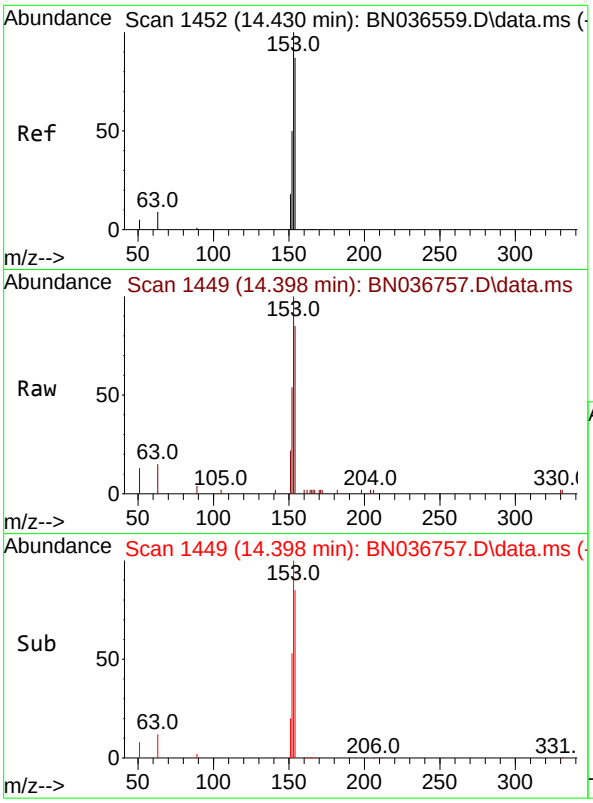


#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 4680

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	13.4	10.6	15.8

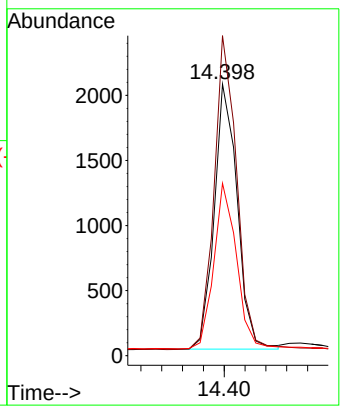




#17
Acenaphthene
Concen: 0.368 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:154 Resp: 312

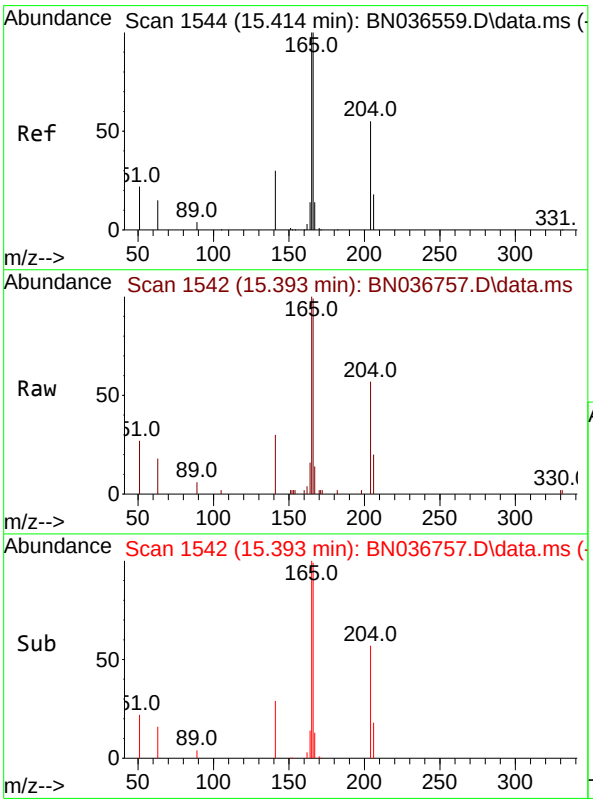
Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	62.6	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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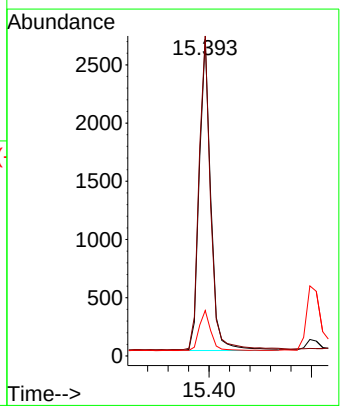
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

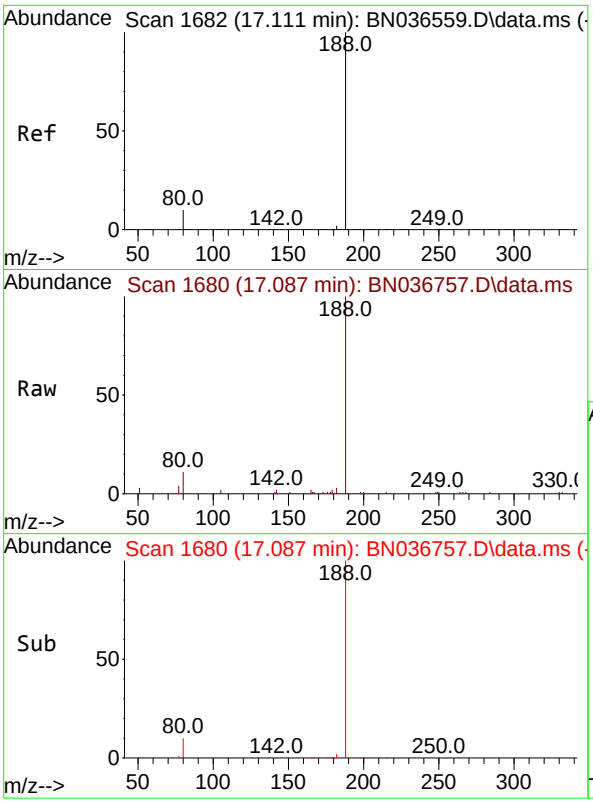


#18
Fluorene
Concen: 0.371 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:166 Resp: 4263

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.8	119.8
167	12.7	10.6	15.8

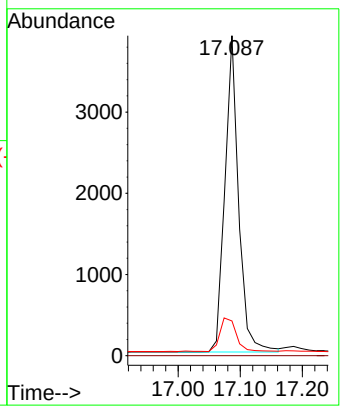




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

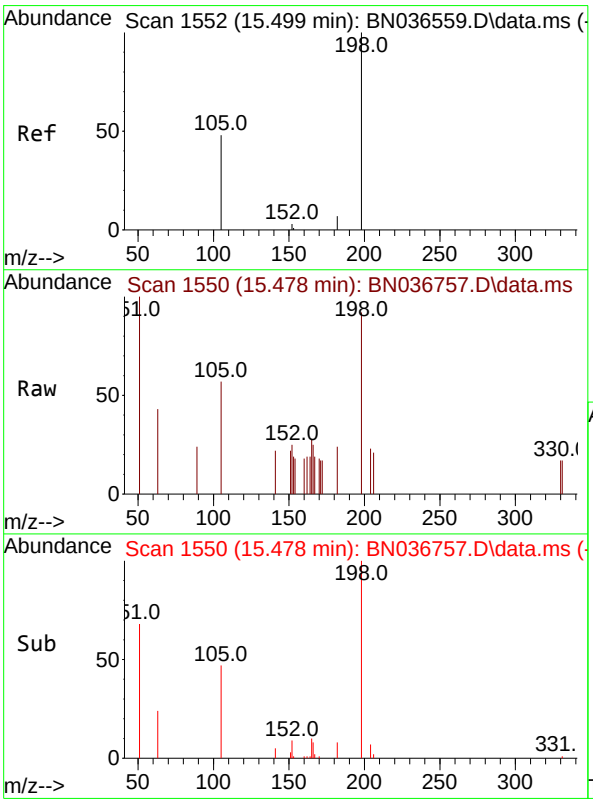
Tgt Ion:188 Resp: 593

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

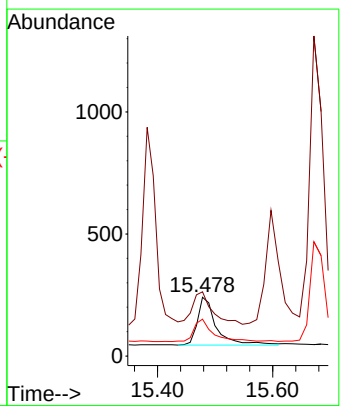
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Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

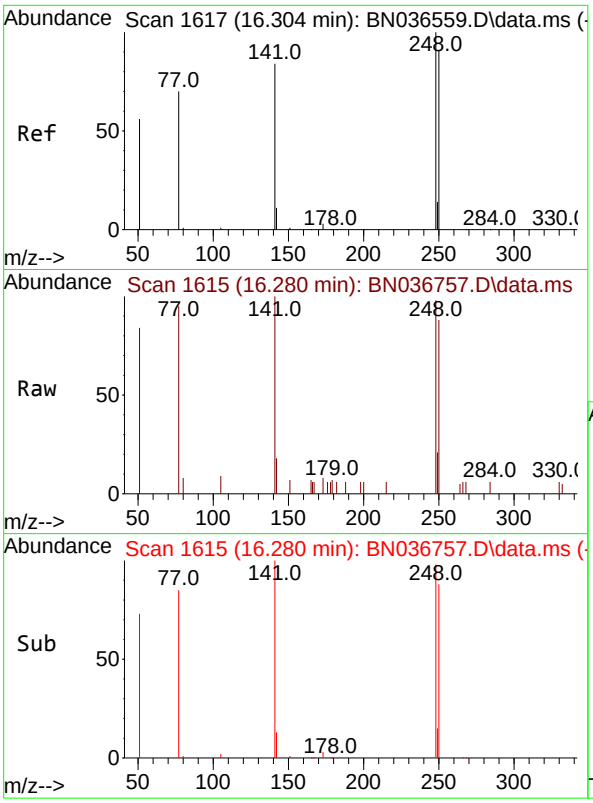


#20
4,6-Dinitro-2-methylphenol
Concen: 0.457 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:198 Resp: 472

Ion	Ratio	Lower	Upper
198	100		
51	109.1	107.9	161.9
105	62.7	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

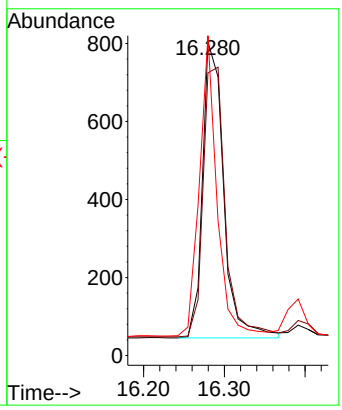
Tgt Ion:248 Resp: 138

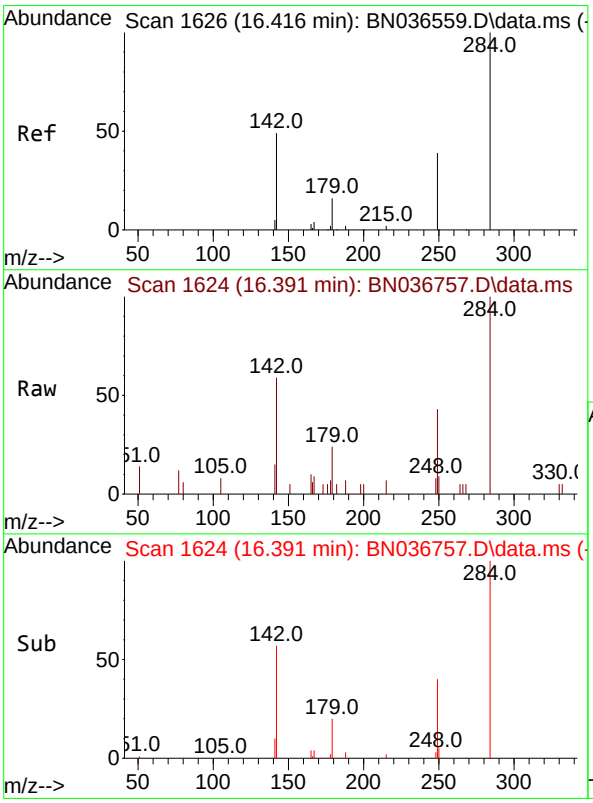
Ion	Ratio	Lower	Upper
248	100		
250	90.2	73.0	109.6
141	102.0	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

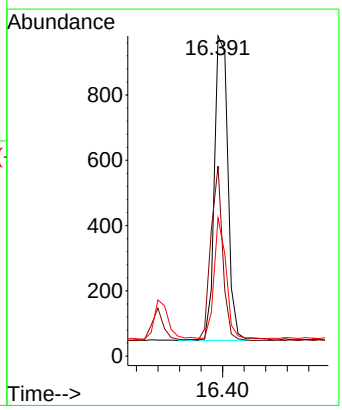


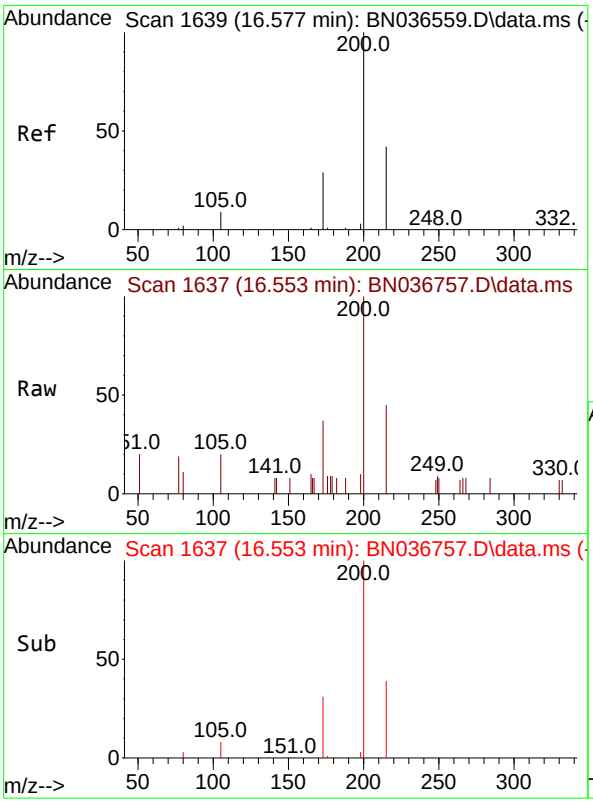


#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:284 Resp: 1636

Ion	Ratio	Lower	Upper
284	100		
142	49.6	37.0	55.4
249	35.2	28.1	42.1

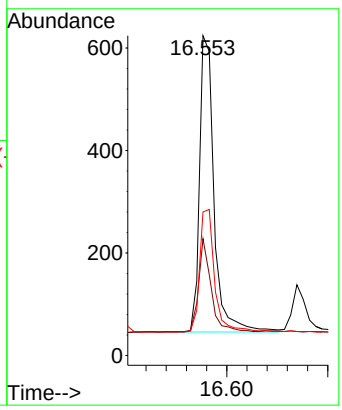




#23
Atrazine
Concen: 0.387 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:200 Resp: 115

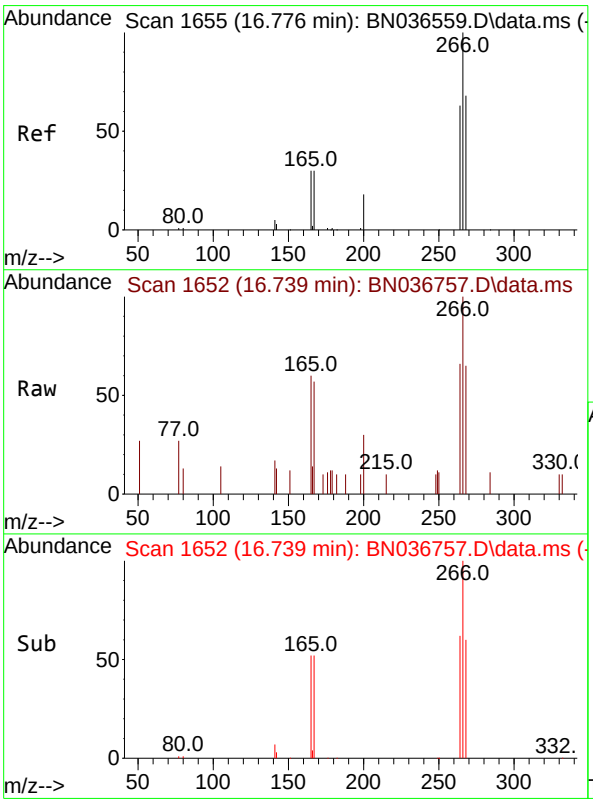
Ion	Ratio	Lower	Upper
200	100		
173	36.5	27.3	40.9
215	44.9	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

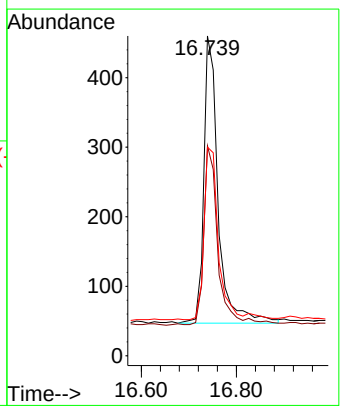
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

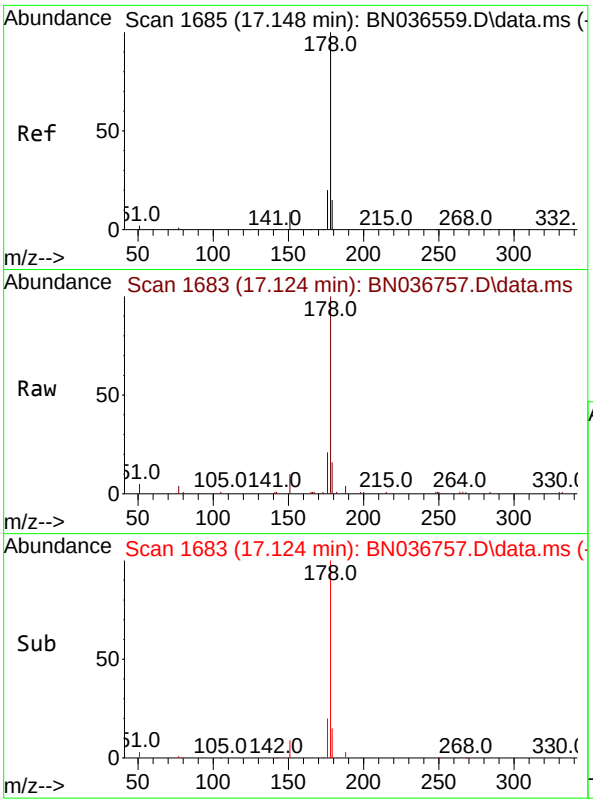


#24
Pentachlorophenol
Concen: 0.424 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:266 Resp: 868

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.6	74.4
268	59.4	50.9	76.3

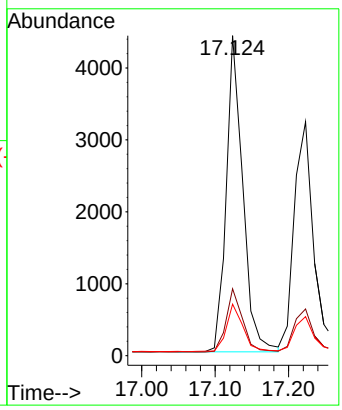




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 686(

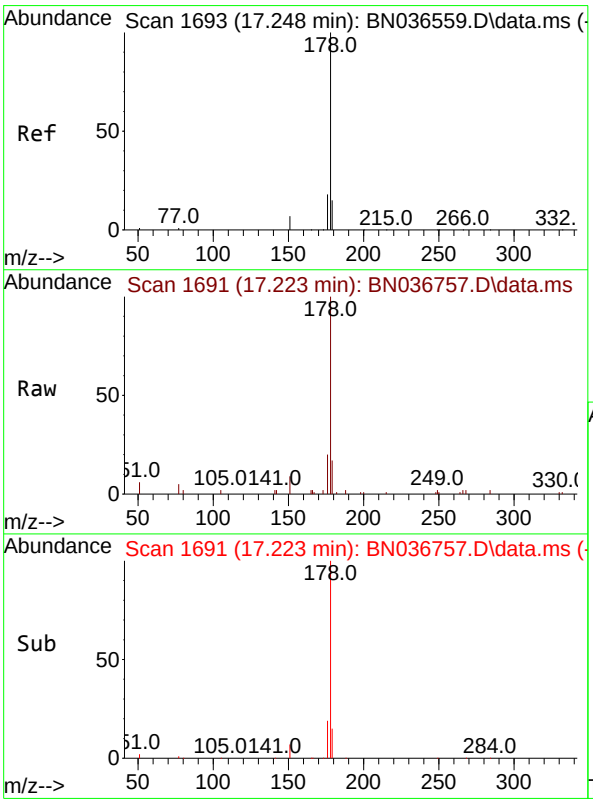
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

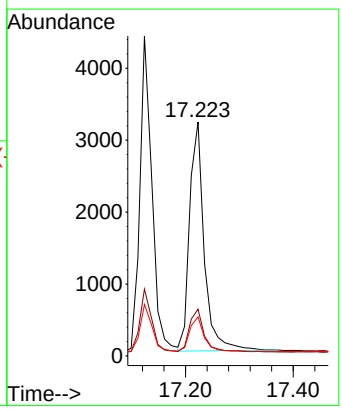
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

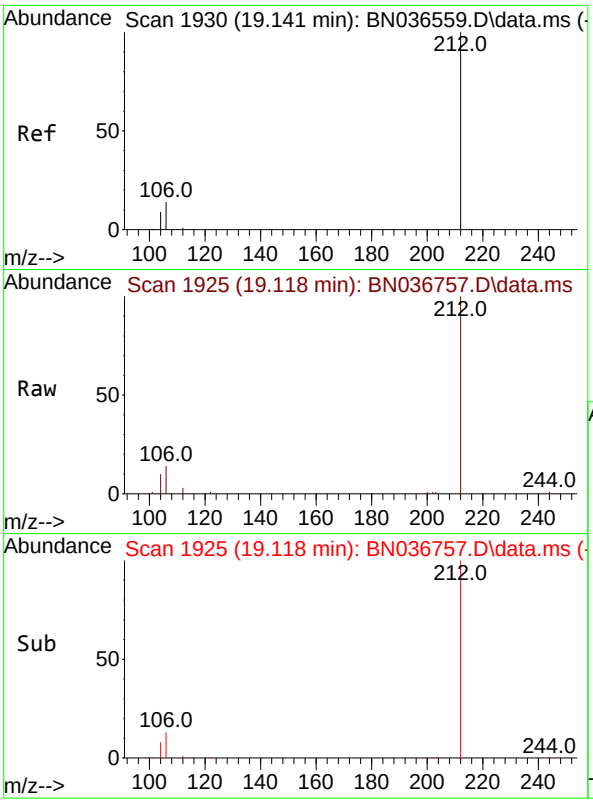


#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 6014

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	18.8

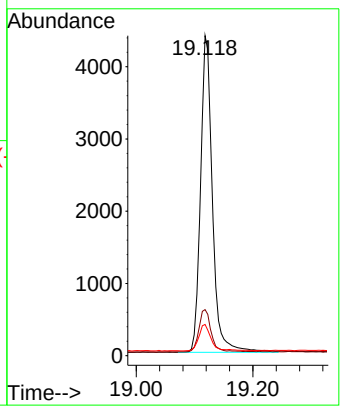




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:212 Resp: 625

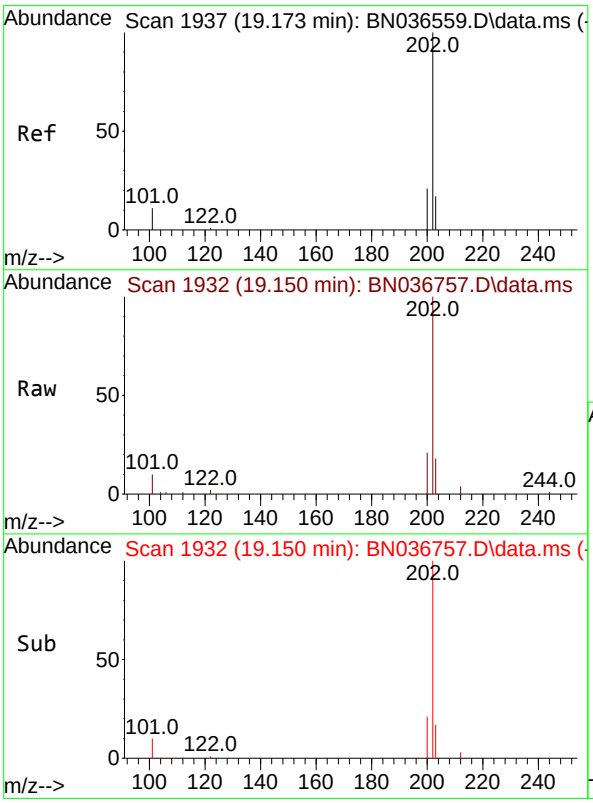
Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	8.6	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

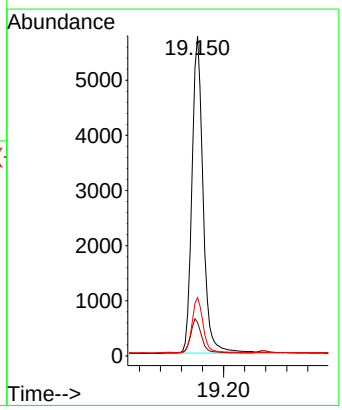
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

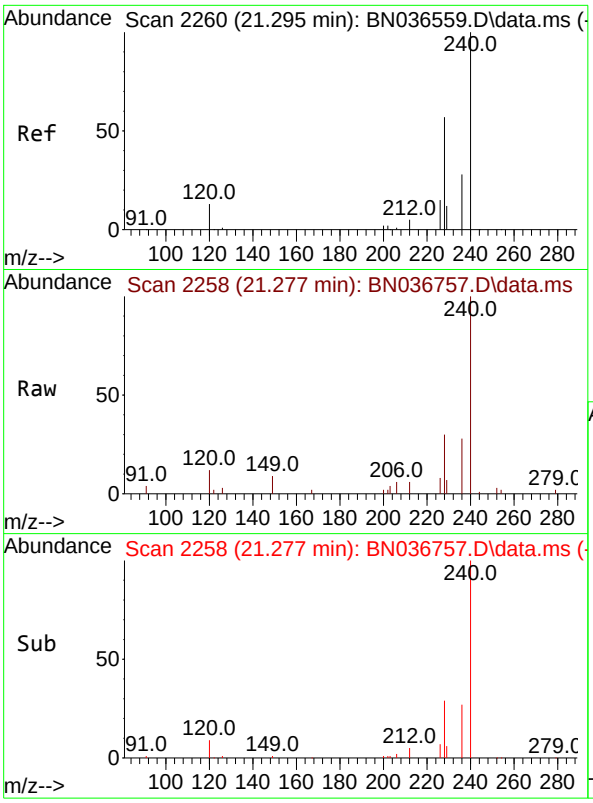


#28
Fluoranthene
Concen: 0.424 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 8476

Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	17.2	13.5	20.3

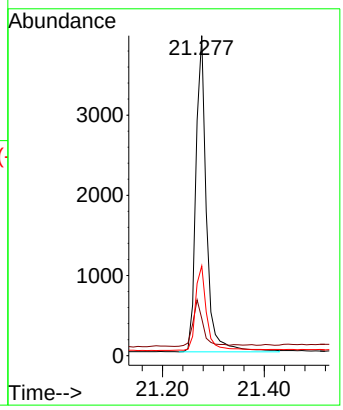




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:240 Resp: 568

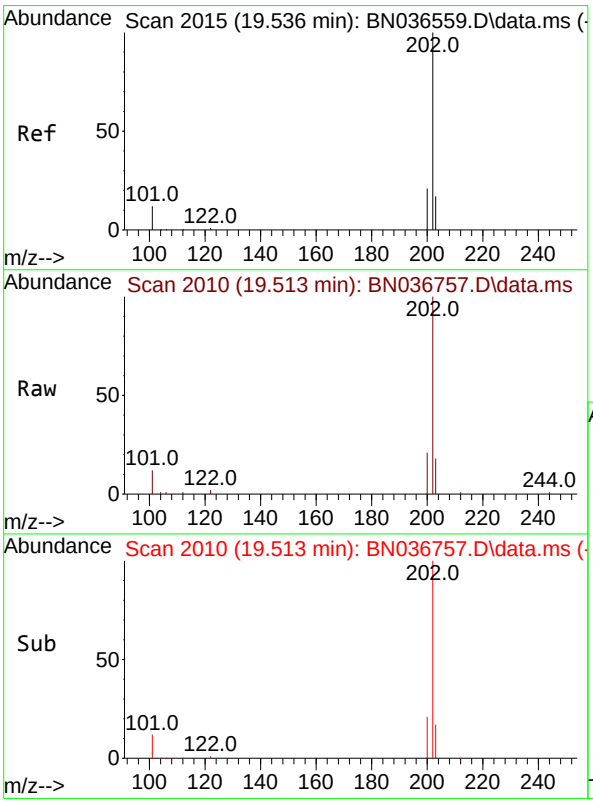
Ion	Ratio	Lower	Upper
240	100		
120	11.6	14.6	22.0
236	28.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

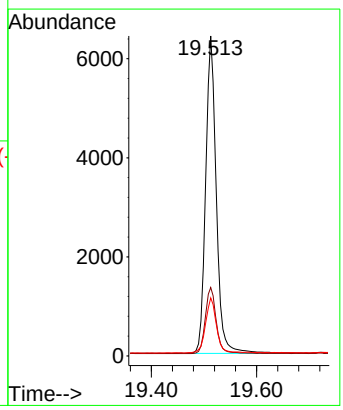
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

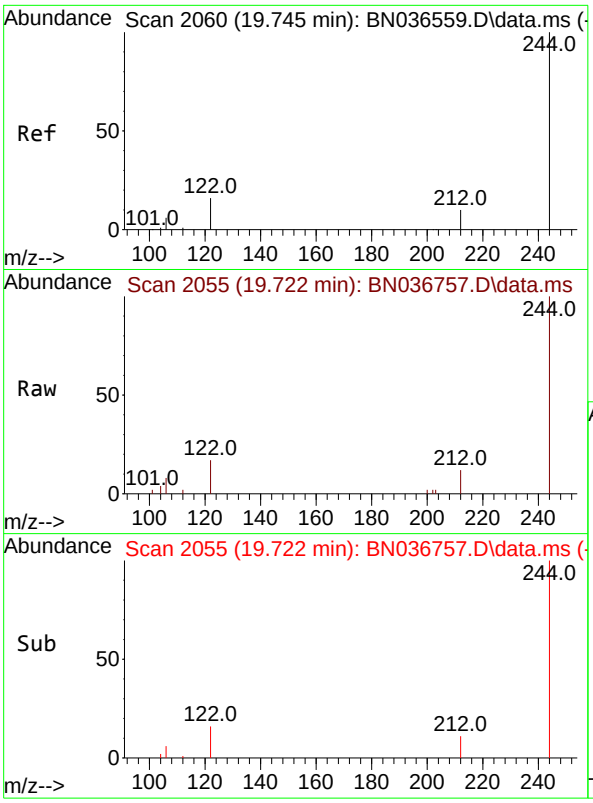


#30
Pyrene
Concen: 0.325 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 9024

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.5	14.1	21.1

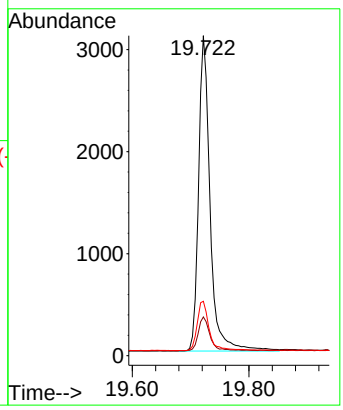




#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:244 Resp: 425

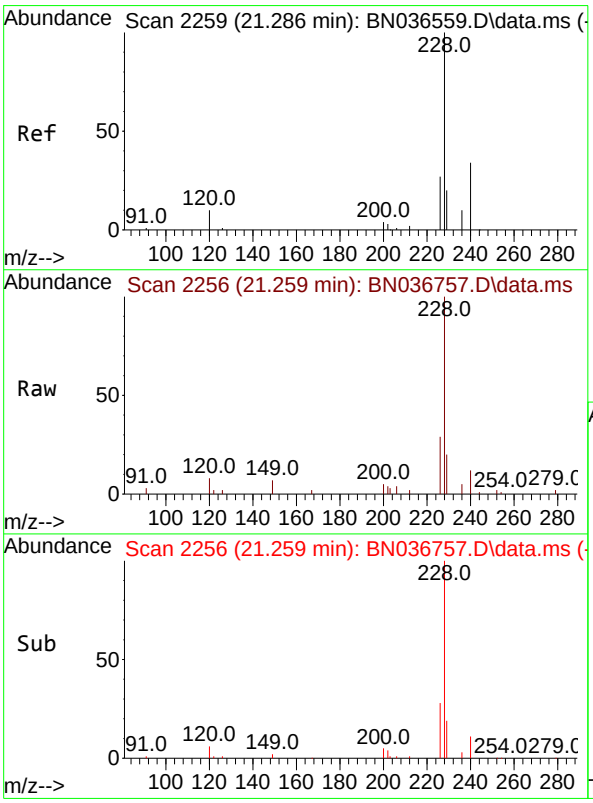
Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	17.0	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

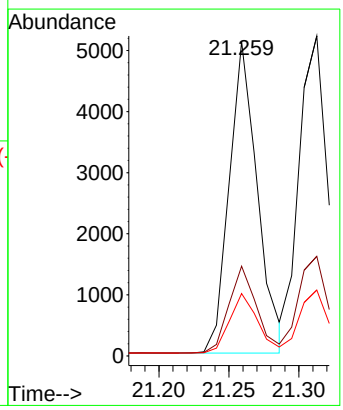
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

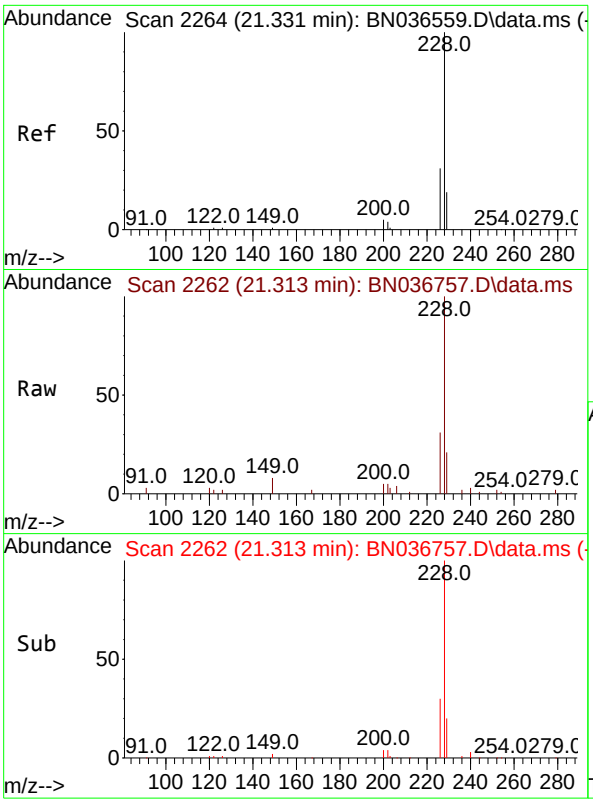


#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 7146

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	19.8	16.6	25.0

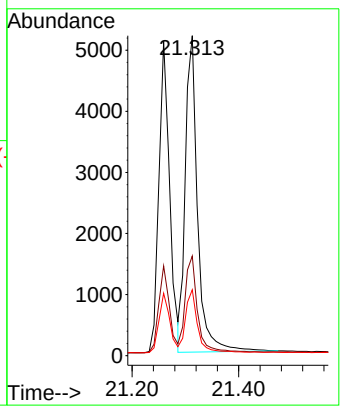




#33
Chrysene
Concen: 0.383 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 827

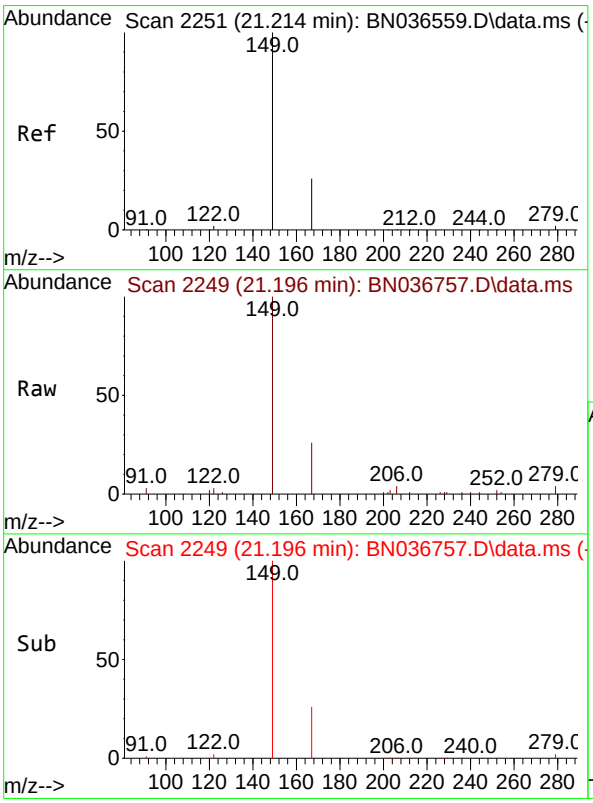
Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.3	37.9
229	20.6	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

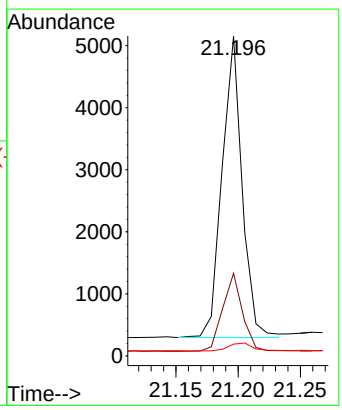
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

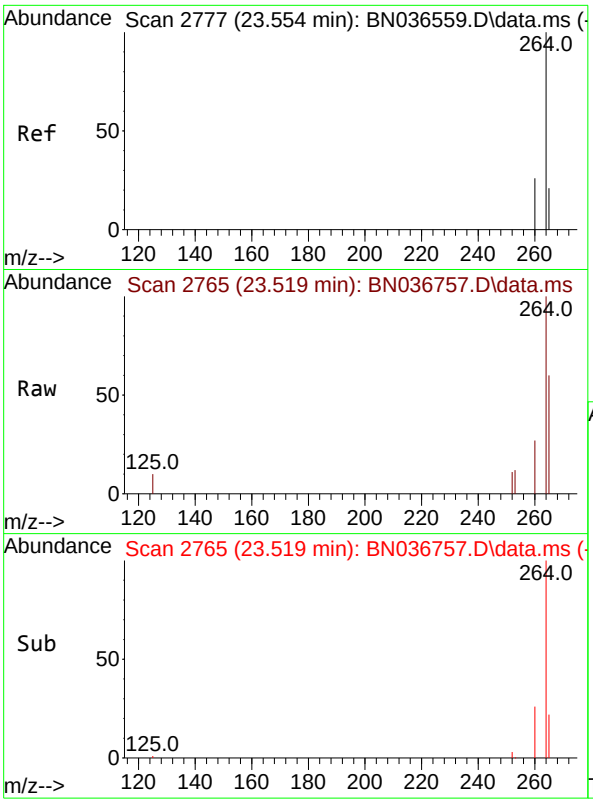


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:149 Resp: 5431

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	3.4	3.6	5.4#

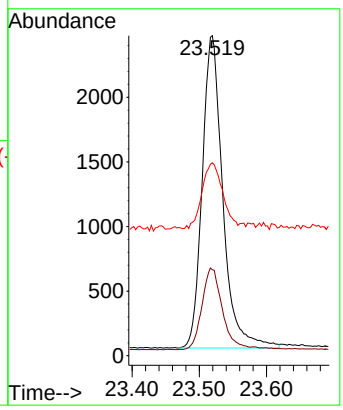




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:264 Resp: 514

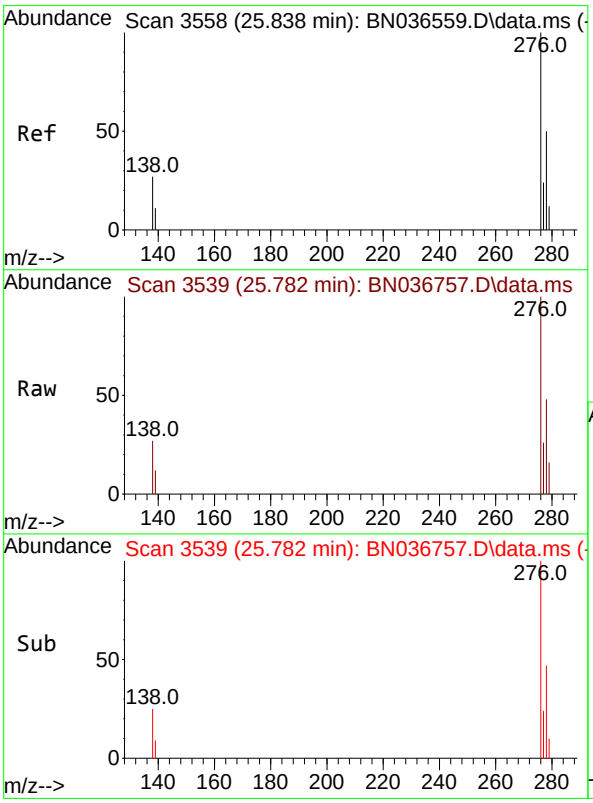
Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	60.3	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

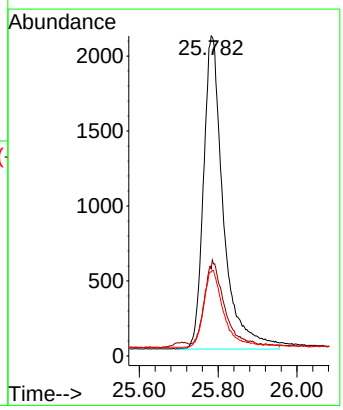
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

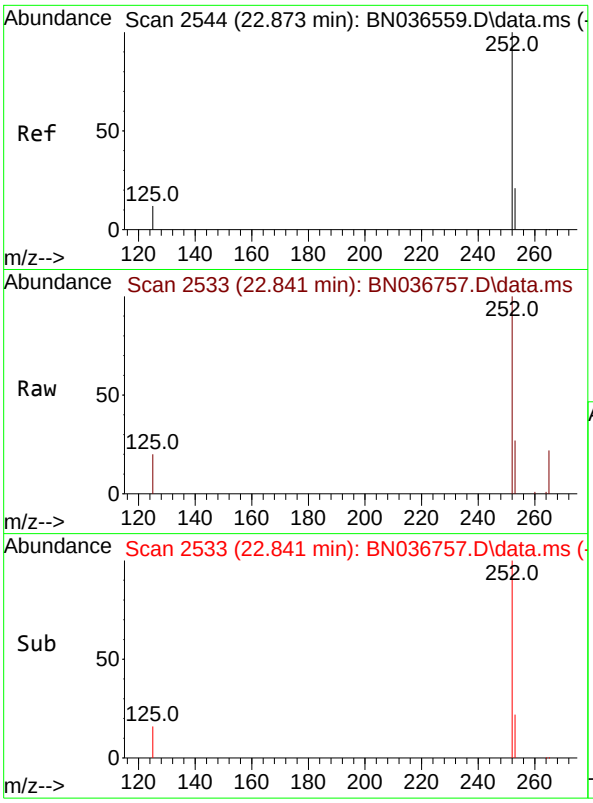


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 7314

Ion	Ratio	Lower	Upper
276	100		
138	24.9	23.4	35.2
277	24.6	20.0	30.0

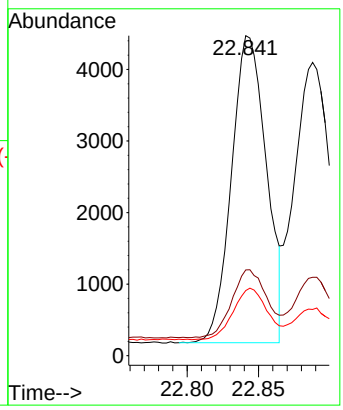




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 729

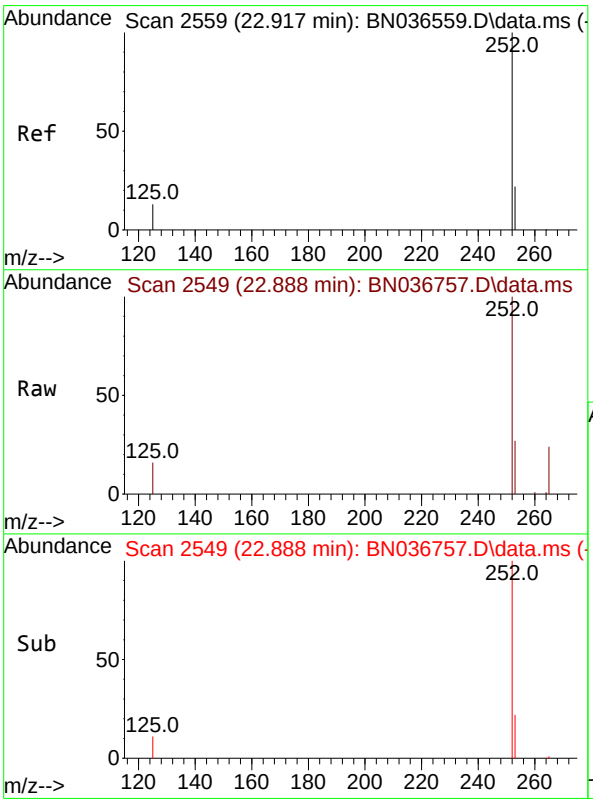
Ion	Ratio	Lower	Upper
252	100		
253	26.8	23.9	35.9
125	20.4	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

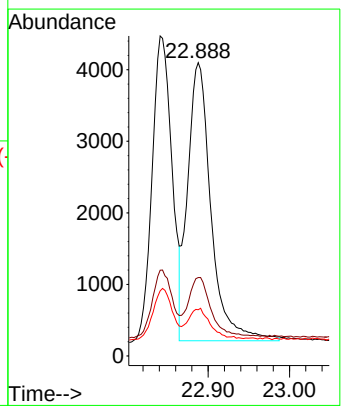
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

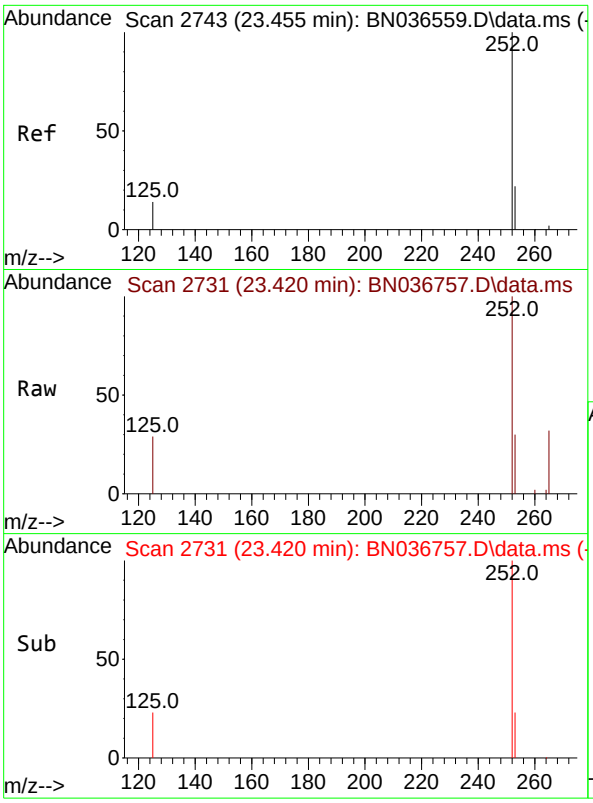


#38
Benzo(k)fluoranthene
Concen: 0.395 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 7751

Ion	Ratio	Lower	Upper
252	100		
253	26.7	24.6	36.8
125	15.8	17.8	26.8#

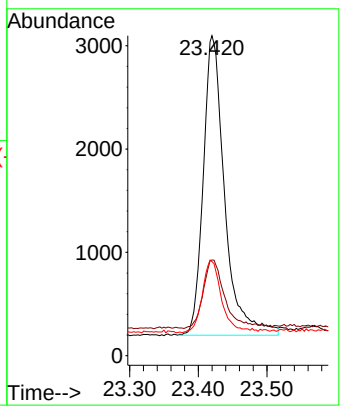




#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 629

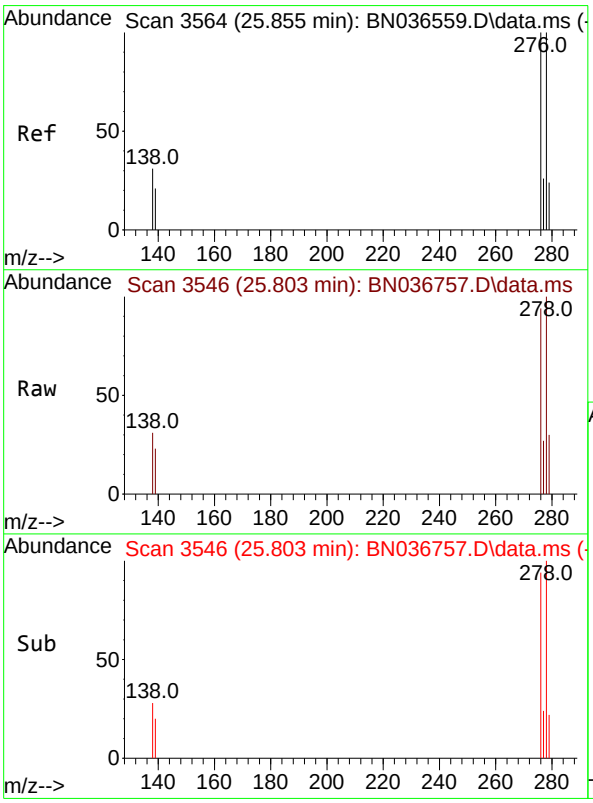
Ion	Ratio	Lower	Upper
252	100		
253	29.9	27.8	41.8
125	29.4	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

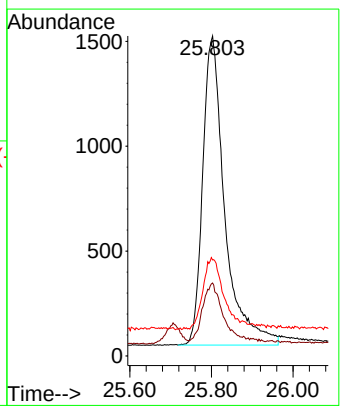
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

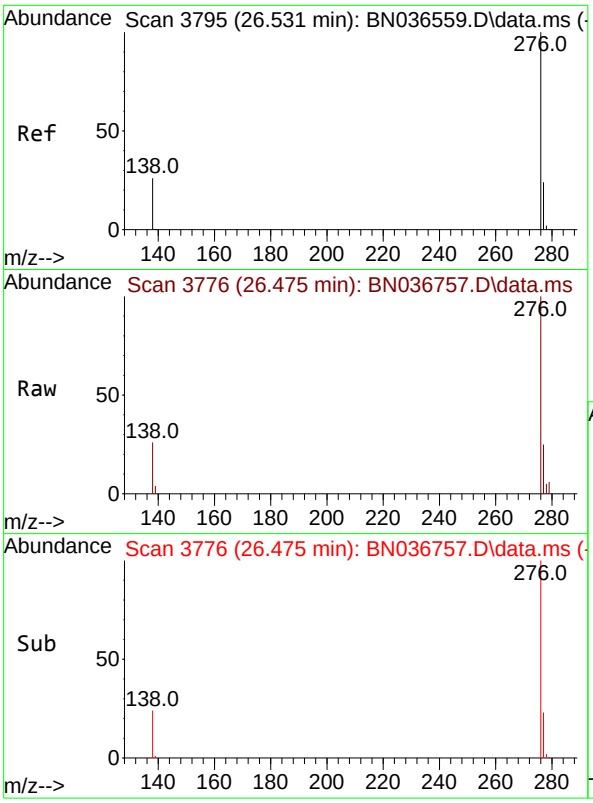


#40
Dibenzo(a,h)anthracene
Concen: 0.382 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:278 Resp: 5522

Ion	Ratio	Lower	Upper
278	100		
139	22.8	20.8	31.2
279	30.0	28.8	43.2

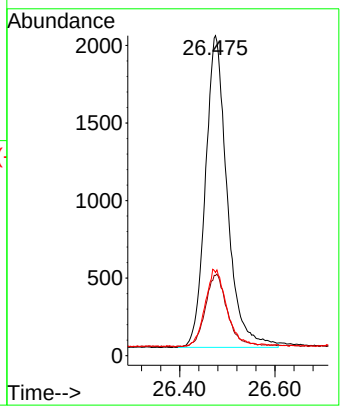




#41
Benzo(g,h,i)perylene
Concen: 0.386 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 637

Ion	Ratio	Lower	Upper
276	100		
277	25.1	22.2	33.4
138	26.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 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	89	-0.02
2		1,4-Dioxane	0.444	0.442	0.5	79	-0.01
3		n-Nitrosodimethylamine	0.898	0.879	2.1	84	-0.01
4	S	2-Fluorophenol	0.932	0.782	16.1	71	-0.02
5	S	Phenol-d6	1.152	0.986	14.4	78	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.050	11.8	79	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	90	-0.02
8	S	Nitrobenzene-d5	0.435	0.370	14.9	81	-0.02
9		Naphthalene	1.177	1.056	10.3	79	-0.03
10		Hexachlorobutadiene	0.277	0.247	10.8	76	-0.02
11	SURR	2-Methylnaphthalene-d10	0.595	0.509	14.5	76	-0.03
12		2-Methylnaphthalene	0.749	0.662	11.6	78	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	91	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.184	-1.1	89	-0.02
15	S	2-Fluorobiphenyl	2.327	2.013	13.5	76	-0.03
16		Acenaphthylene	1.888	1.702	9.9	80	-0.02
17		Acenaphthene	1.236	1.136	8.1	81	-0.03
18		Fluorene	1.672	1.550	7.3	80	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.080	7.0	102	-0.02
21		4-Bromophenyl-phenylether	0.251	0.233	7.2	84	-0.02
22		Hexachlorobenzene	0.303	0.276	8.9	81	-0.02
23		Atrazine	0.201	0.194	3.5	90	-0.02
24		Pentachlorophenol	0.138	0.146	-5.8	106	-0.04
25		Phenanthrene	1.200	1.156	3.7	88	-0.02
26		Anthracene	1.083	1.013	6.5	87	-0.02
27	SURR	Fluoranthene-d10	1.025	1.053	-2.7	93	-0.02
28		Fluoranthene	1.348	1.428	-5.9	97	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	138	-0.02
30		Pyrene	1.956	1.589	18.8	103	-0.02
31	S	Terphenyl-d14	0.958	0.749	21.8	101	-0.02
32		Benzo(a)anthracene	1.391	1.258	9.6	121	-0.03
33		Chrysene	1.520	1.456	4.2	125	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.956	3.4	127	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	145	-0.03
36		Indeno(1,2,3-cd)pyrene	1.444	1.423	1.5	134	-0.06
37		Benzo(b)fluoranthene	1.456	1.419	2.5	133	-0.03
38		Benzo(k)fluoranthene	1.527	1.508	1.2	135	-0.03
39	C	Benzo(a)pyrene	1.226	1.224	0.2	136	-0.03
40		Dibenzo(a,h)anthracene	1.124	1.074	4.4	134	-0.05
41		Benzo(g,h,i)perylene	1.286	1.240	3.6	130	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 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	89	-0.02
2		1,4-Dioxane	0.400	0.399	0.3	79	-0.01
3		n-Nitrosodimethylamine	0.400	0.392	2.0	84	-0.01
4	S	2-Fluorophenol	0.400	0.335	16.3	71	-0.02
5	S	Phenol-d6	0.400	0.343	14.2	78	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.353	11.8	79	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	90	-0.02
8	S	Nitrobenzene-d5	0.400	0.340	15.0	81	-0.02
9		Naphthalene	0.400	0.359	10.3	79	-0.03
10		Hexachlorobutadiene	0.400	0.357	10.8	76	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.342	14.5	76	-0.03
12		2-Methylnaphthalene	0.400	0.354	11.5	78	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	91	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.406	-1.5	89	-0.02
15	S	2-Fluorobiphenyl	0.400	0.346	13.5	76	-0.03
16		Acenaphthylene	0.400	0.361	9.8	80	-0.02
17		Acenaphthene	0.400	0.368	8.0	81	-0.03
18		Fluorene	0.400	0.371	7.3	80	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.457	-14.2	102	-0.02
21		4-Bromophenyl-phenylether	0.400	0.372	7.0	84	-0.02
22		Hexachlorobenzene	0.400	0.364	9.0	81	-0.02
23		Atrazine	0.400	0.387	3.3	90	-0.02
24		Pentachlorophenol	0.400	0.424	-6.0	106	-0.04
25		Phenanthrene	0.400	0.386	3.5	88	-0.02
26		Anthracene	0.400	0.374	6.5	87	-0.02
27	SURR	Fluoranthene-d10	0.400	0.411	-2.7	93	-0.02
28		Fluoranthene	0.400	0.424	-6.0	97	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	138	-0.02
30		Pyrene	0.400	0.325	18.8	103	-0.02
31	S	Terphenyl-d14	0.400	0.313	21.8	101	-0.02
32		Benzo(a)anthracene	0.400	0.362	9.5	121	-0.03
33		Chrysene	0.400	0.383	4.3	125	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.386	3.5	127	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	145	-0.03
36		Indeno(1,2,3-cd)pyrene	0.400	0.394	1.5	134	-0.06
37		Benzo(b)fluoranthene	0.400	0.390	2.5	133	-0.03
38		Benzo(k)fluoranthene	0.400	0.395	1.3	135	-0.03
39	C	Benzo(a)pyrene	0.400	0.399	0.3	136	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.382	4.5	134	-0.05
41		Benzo(g,h,i)perylene	0.400	0.386	3.5	130	-0.06

(#) = 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: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG No.: Q1608

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 13:58

Lab File ID: BN036771.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC 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	0.540		-9.2	50.0
Fluoranthene-d10	1.025	1.012		-1.3	50.0
2-Fluorophenol	0.932	0.846		-9.2	50.0
Phenol-d6	1.152	1.010		-12.3	50.0
Nitrobenzene-d5	0.435	0.354		-18.6	50.0
2-Fluorobiphenyl	2.327	2.021		-13.1	50.0
2,4,6-Tribromophenol	0.182	0.177		-2.7	50.0
Terphenyl-d14	0.958	0.816		-14.8	50.0
1,4-Dioxane	0.444	0.460		3.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 28 14:23:03 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	7.695	152	1636	0.400	ng		-0.03
7) Naphthalene-d8	10.487	136	4177	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	2615	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	5571	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	4555	0.400	ng		#-0.02
35) Perylene-d12	23.516	264	4167	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1384	0.363	ng		-0.02
5) Phenol-d6	6.872	99	1653	0.351	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1480	0.326	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2256	0.363	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	464	0.391	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5285	0.347	ng		-0.03
27) Fluoranthene-d10	19.118	212	5637	0.395	ng		-0.02
31) Terphenyl-d14	19.722	244	3716	0.341	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	752	0.414	ng		97
3) n-Nitrosodimethylamine	3.535	42	1423	0.388	ng		97
6) bis(2-Chloroethyl)ether	7.125	93	1671	0.343	ng		98
9) Naphthalene	10.530	128	4359	0.355	ng		98
10) Hexachlorobutadiene	10.818	225	1044	0.361	ng	#	99
12) 2-Methylnaphthalene	12.156	142	2874	0.368	ng		98
16) Acenaphthylene	14.056	152	4358	0.353	ng		99
17) Acenaphthene	14.398	154	2946	0.365	ng		100
18) Fluorene	15.393	166	4111	0.376	ng		98
20) 4,6-Dinitro-2-methylph...	15.478	198	428	0.446	ng		87
21) 4-Bromophenyl-phenylether	16.280	248	1300	0.372	ng		96
22) Hexachlorobenzene	16.391	284	1537	0.365	ng		96
23) Atrazine	16.553	200	1063	0.380	ng		97
24) Pentachlorophenol	16.739	266	702	0.365	ng		95
25) Phenanthrene	17.124	178	6367	0.381	ng		99
26) Anthracene	17.223	178	5569	0.369	ng		100
28) Fluoranthene	19.150	202	7617	0.406	ng		99
30) Pyrene	19.513	202	7795	0.350	ng		99
32) Benzo(a)anthracene	21.259	228	5566	0.351	ng		99
33) Chrysene	21.313	228	6726	0.389	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3968	0.352	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5233	0.348	ng		96
37) Benzo(b)fluoranthene	22.844	252	5720	0.377	ng		97
38) Benzo(k)fluoranthene	22.888	252	5791m	0.364	ng		
39) Benzo(a)pyrene	23.420	252	4867	0.381	ng		96
40) Dibenzo(a,h)anthracene	25.800	278	3914	0.334	ng		96
41) Benzo(g,h,i)perylene	26.475	276	4758	0.355	ng		95

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

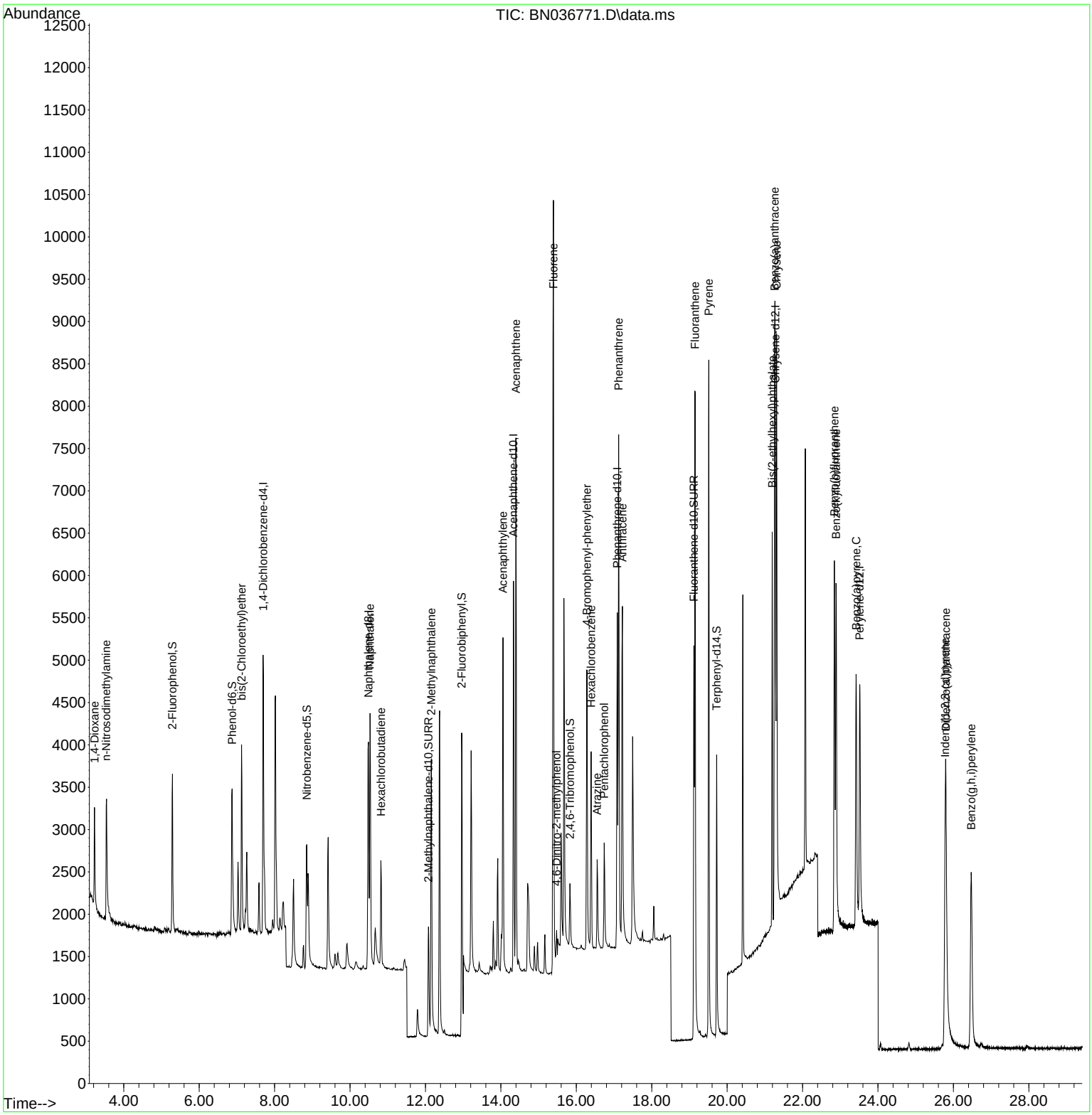
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

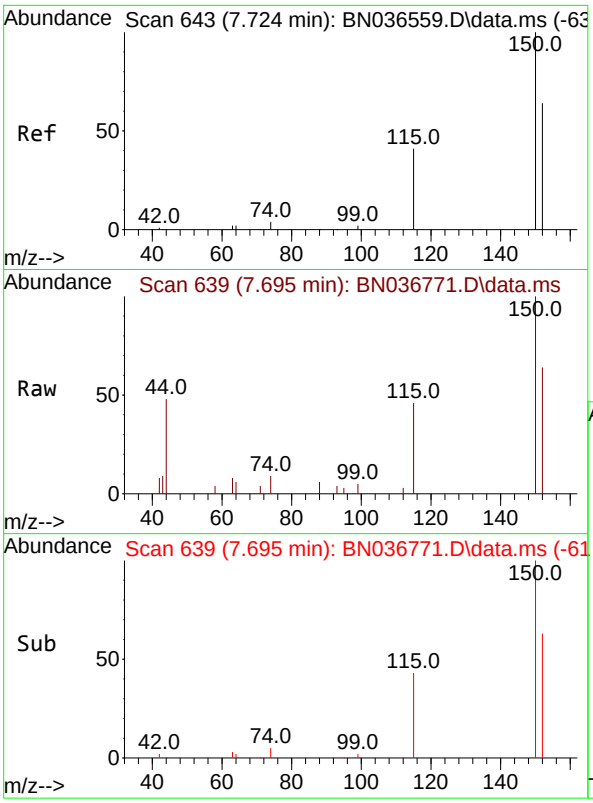
Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

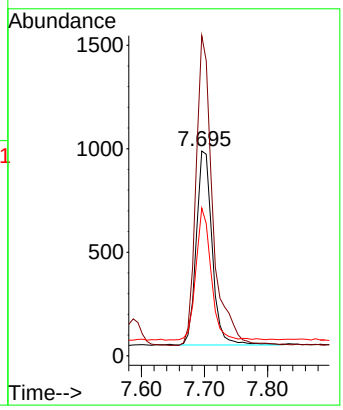




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 163

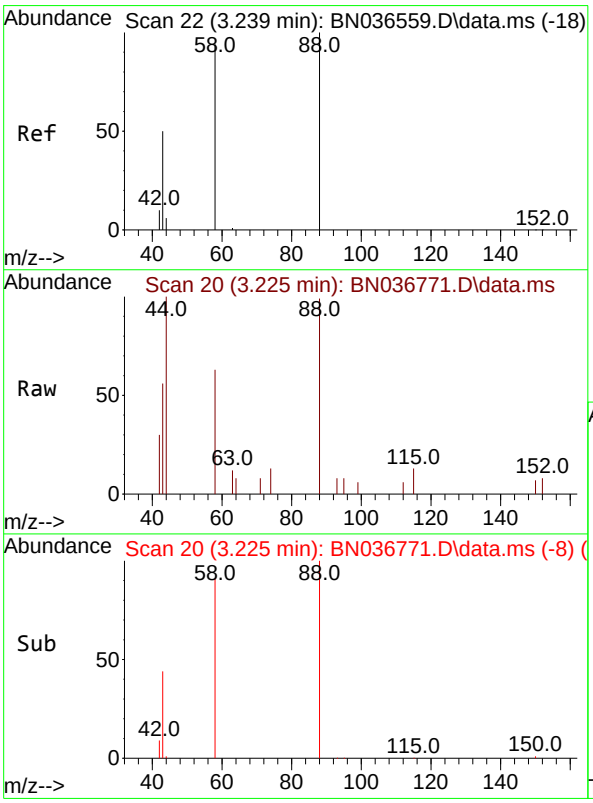
Ion	Ratio	Lower	Upper
152	100		
150	156.3	123.7	185.5
115	72.2	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

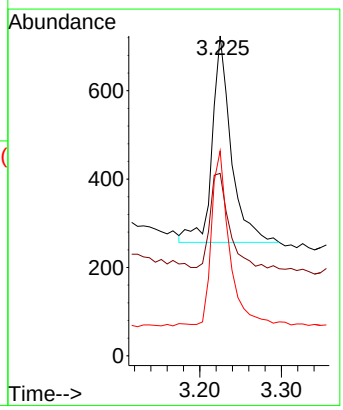
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

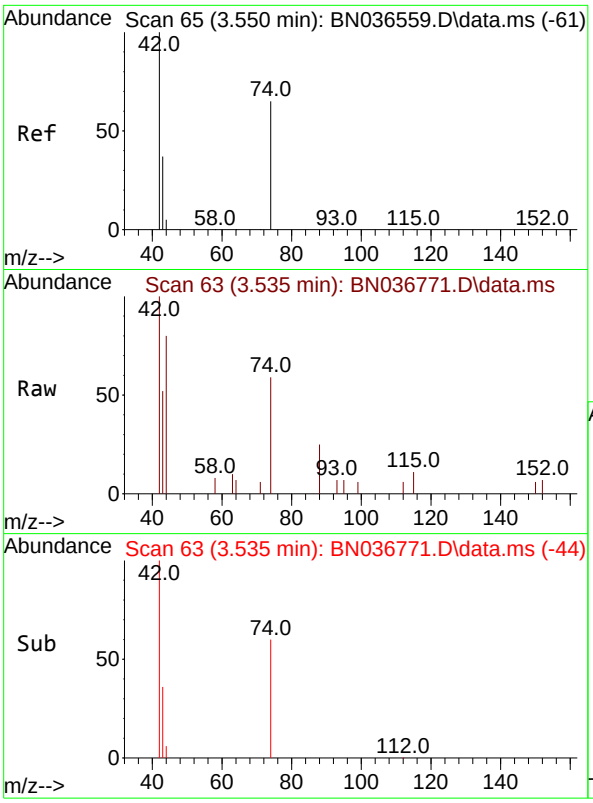


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 88 Resp: 752

Ion	Ratio	Lower	Upper
88	100		
43	47.5	37.8	56.8
58	80.9	67.4	101.2

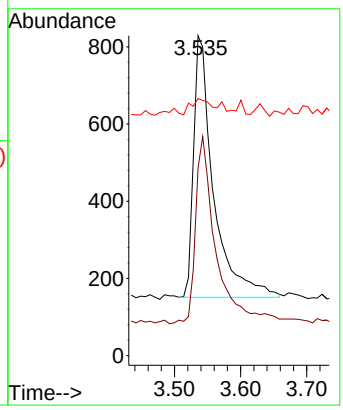




#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 42 Resp: 142

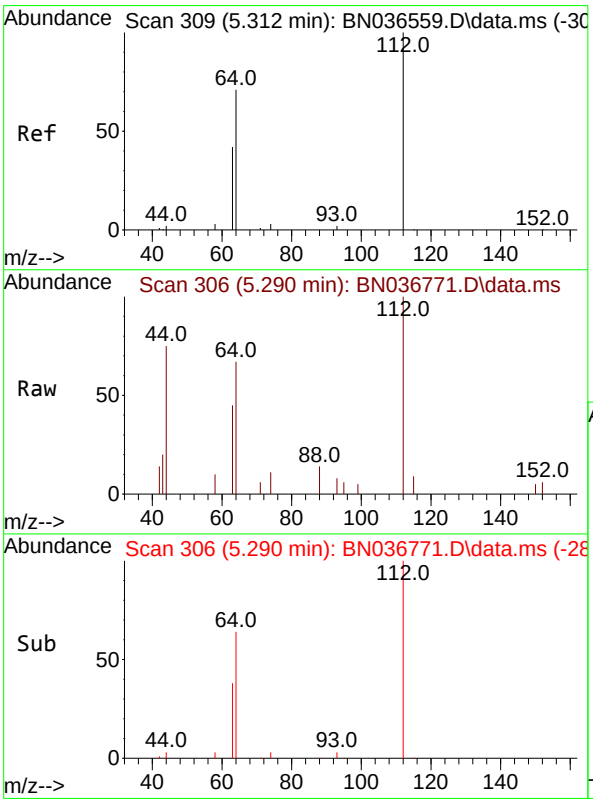
Ion	Ratio	Lower	Upper
42	100		
74	72.9	60.6	90.8
44	6.7	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

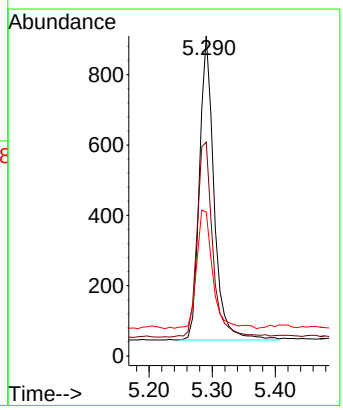
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

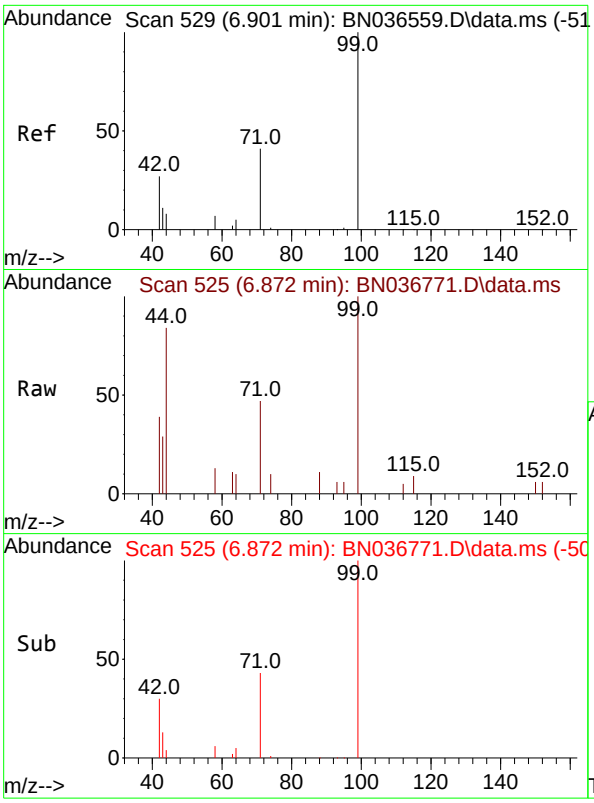


#4
2-Fluorophenol
Concen: 0.363 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:112 Resp: 1384

Ion	Ratio	Lower	Upper
112	100		
64	69.4	53.1	79.7
63	42.8	31.8	47.8

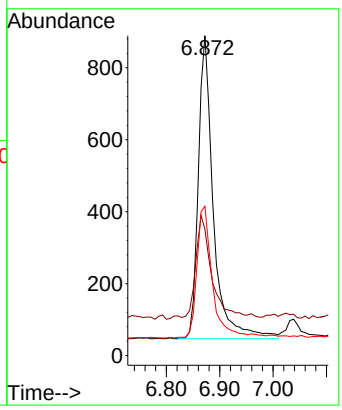




#5
Phenol-d6
Concen: 0.351 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 99 Resp: 165

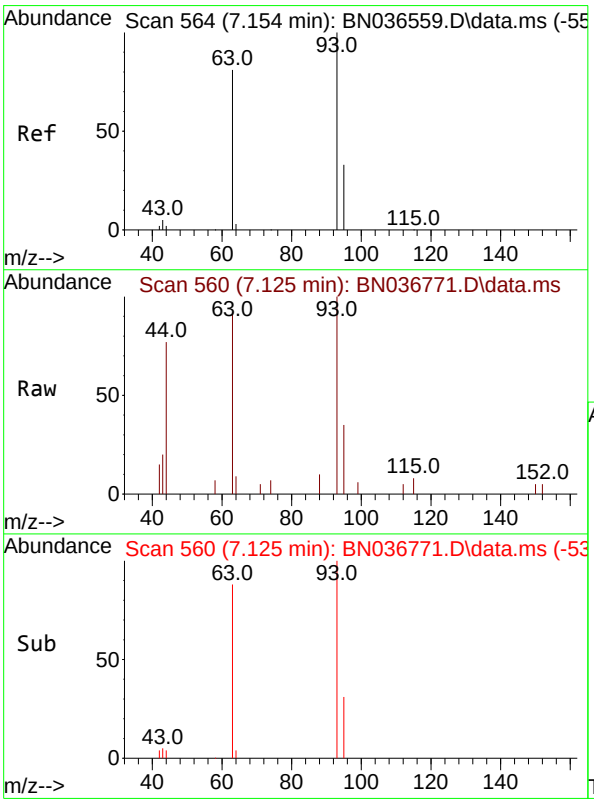
Ion	Ratio	Lower	Upper
99	100		
42	37.9	26.5	39.7
71	45.1	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

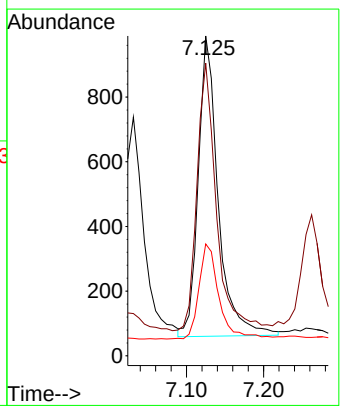
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

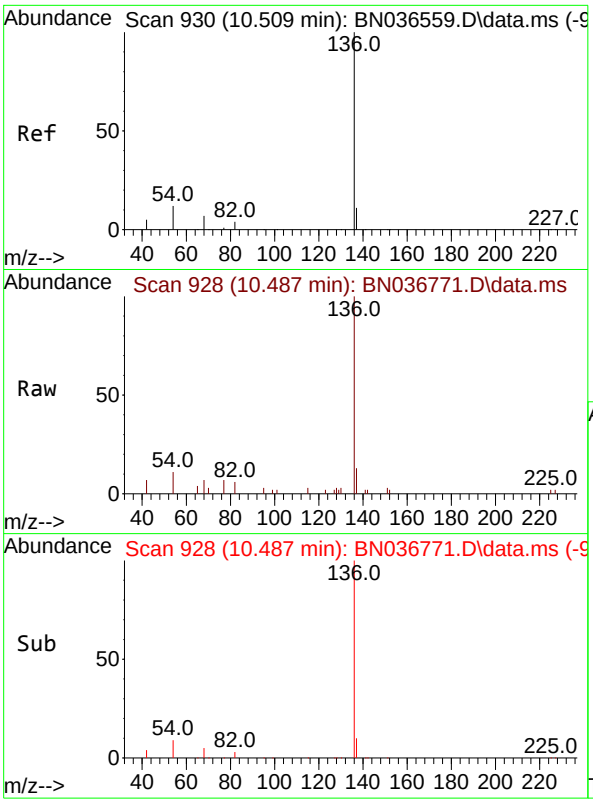


#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 93 Resp: 1671

Ion	Ratio	Lower	Upper
93	100		
63	87.3	67.7	101.5
95	31.8	25.6	38.4

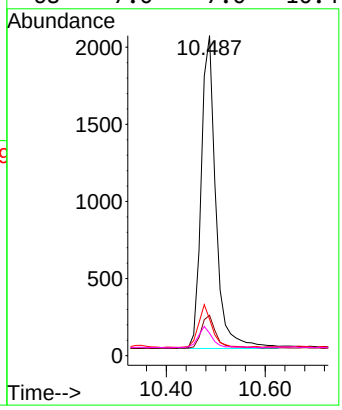




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:136 Resp: 417

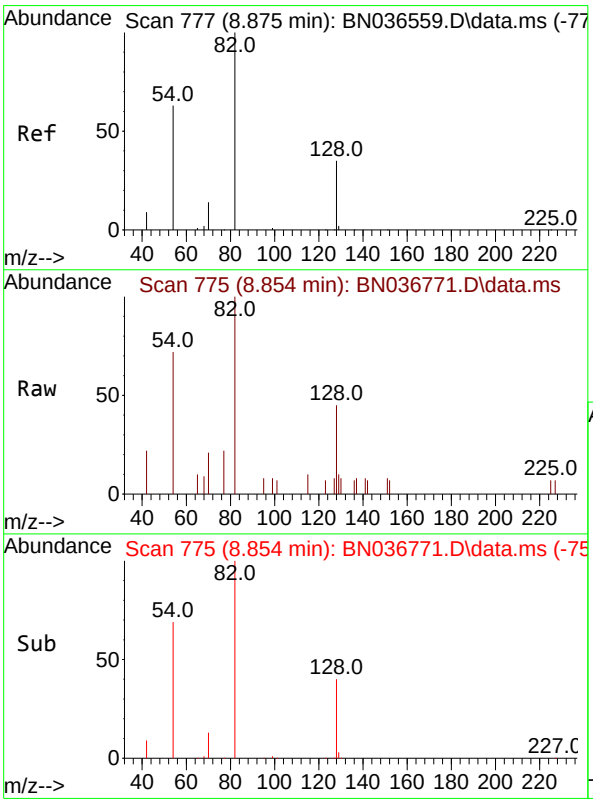
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	11.4	11.5	17.3#
68	7.0	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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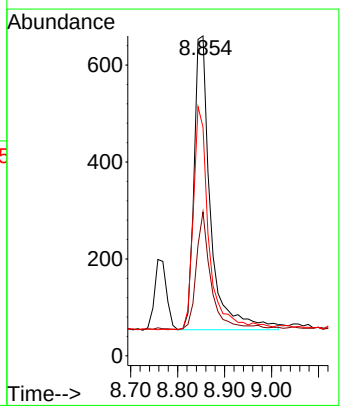
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

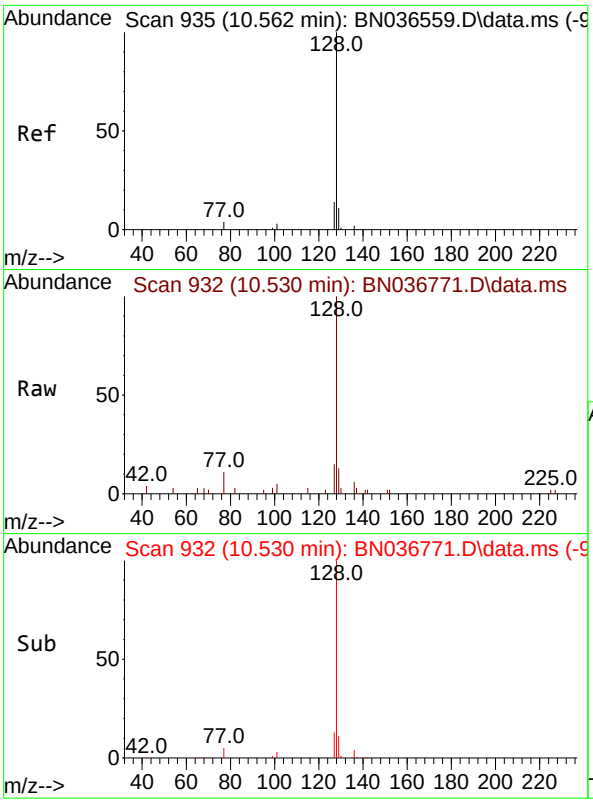


#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 82 Resp: 1480

Ion	Ratio	Lower	Upper
82	100		
128	45.0	30.6	45.8
54	71.5	52.2	78.4

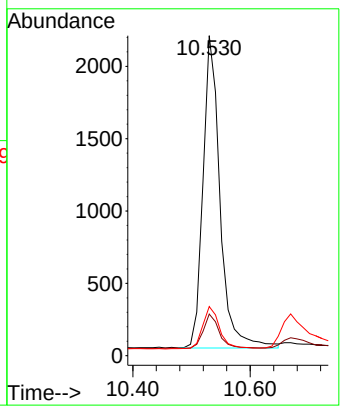




#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:128 Resp: 435

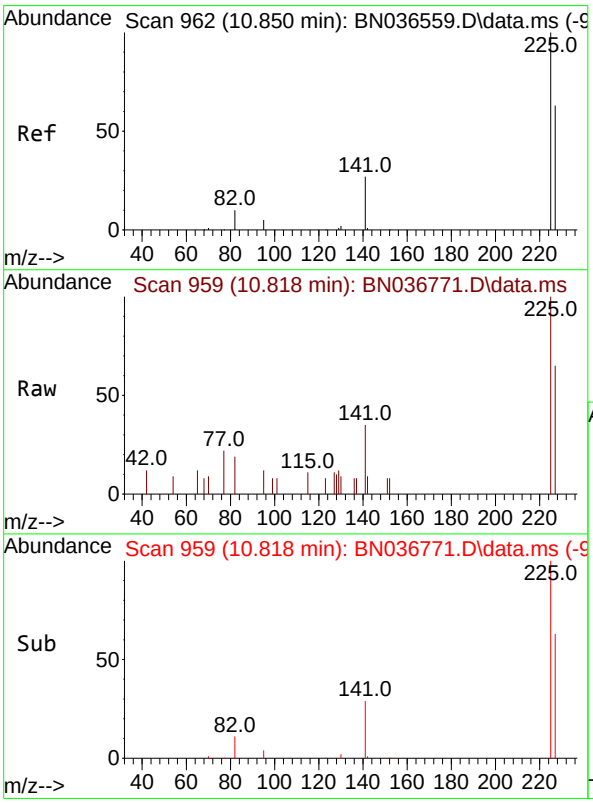
Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.8	14.6
127	15.4	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

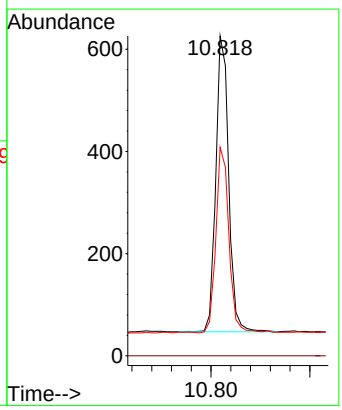
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

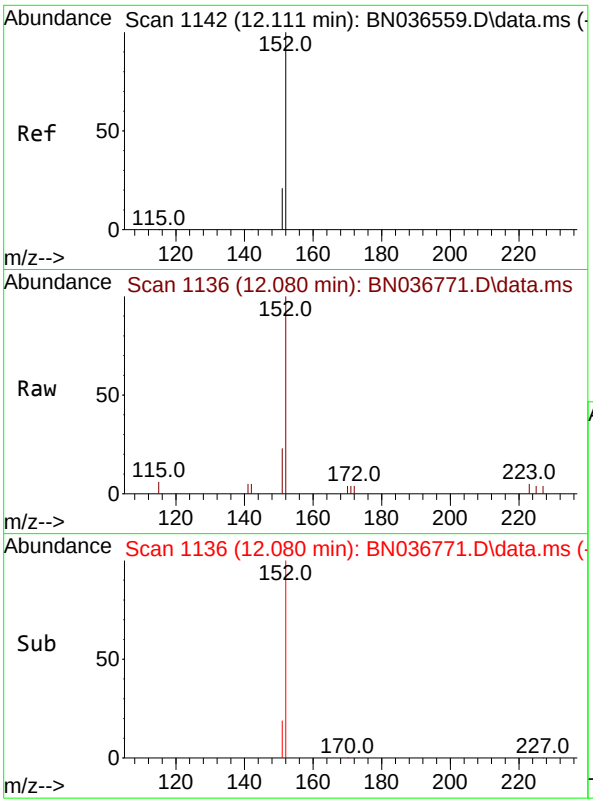


#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:225 Resp: 1044

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

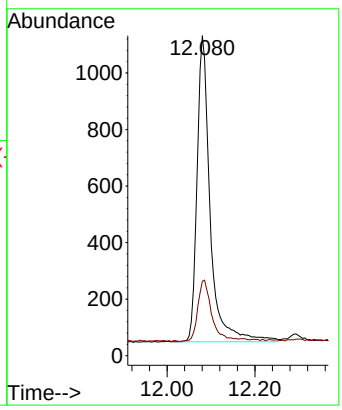




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 225

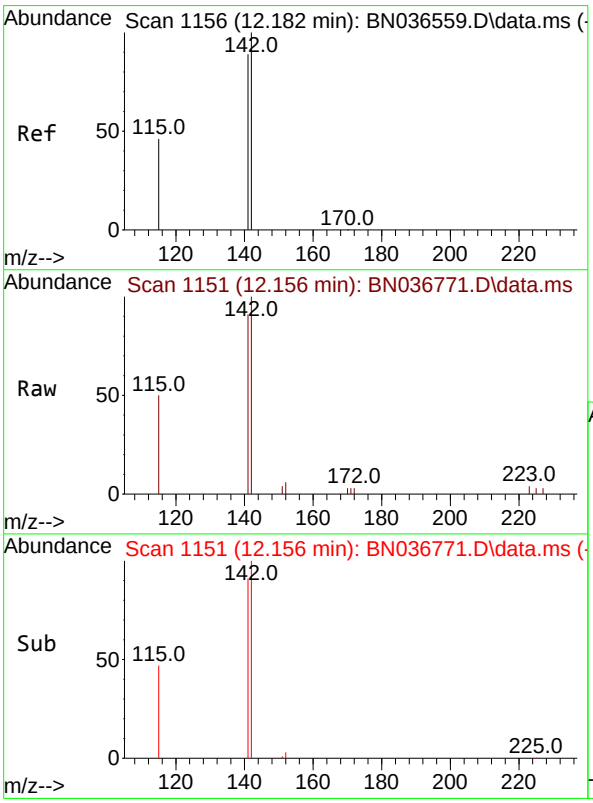
Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

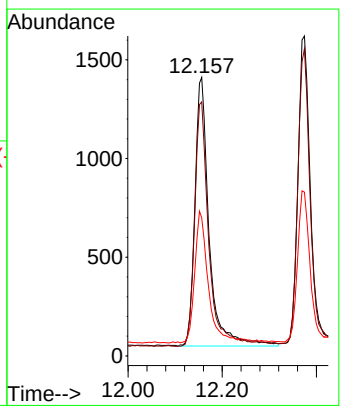
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

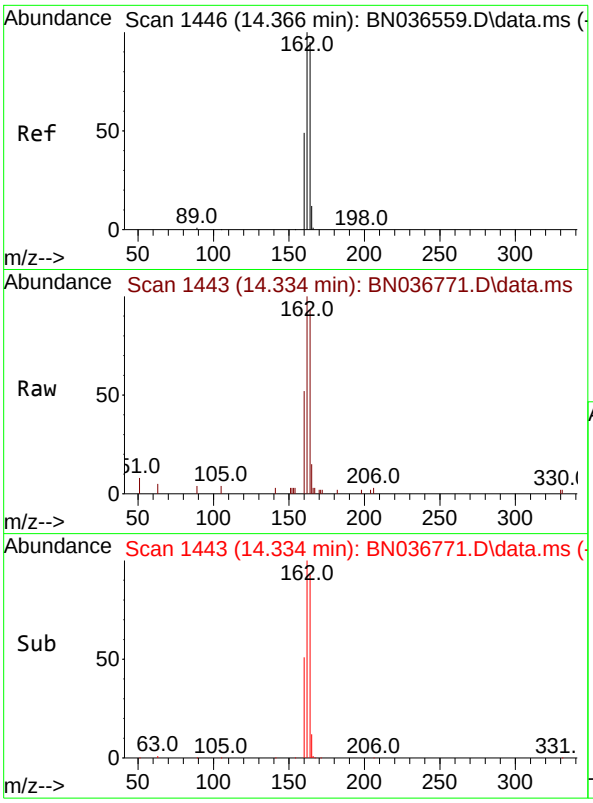


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:142 Resp: 2874

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.7	107.5
115	49.5	38.3	57.5

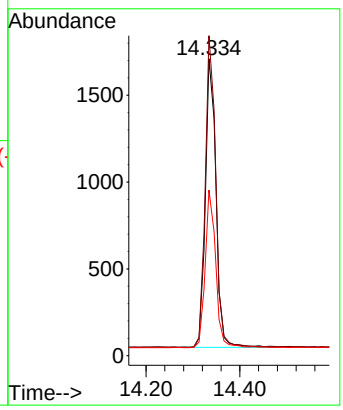




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:164 Resp: 261

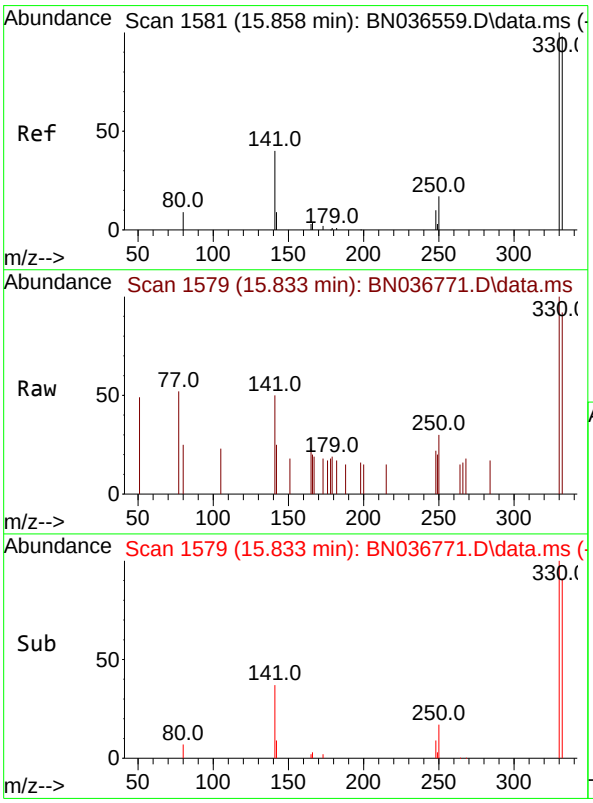
Ion	Ratio	Lower	Upper
164	100		
162	107.8	84.2	126.2
160	55.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

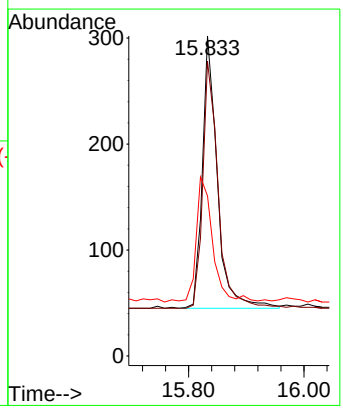
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

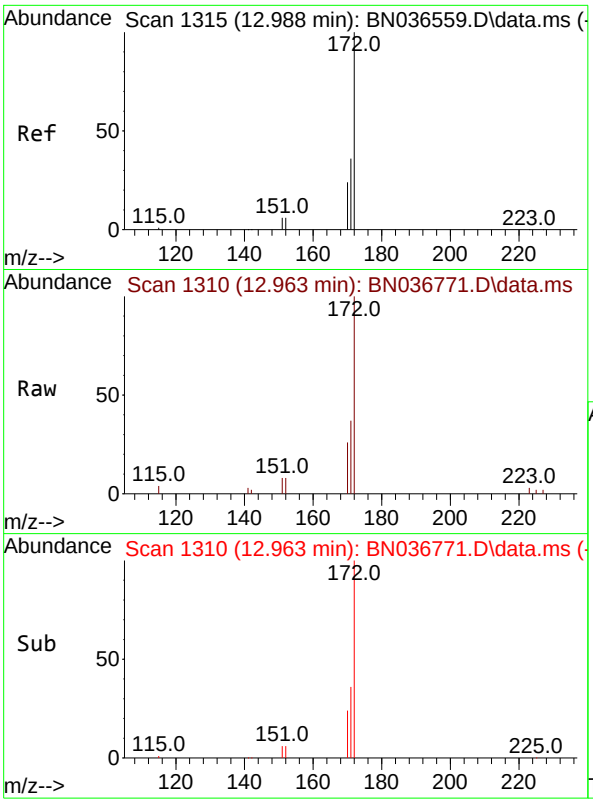


#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:330 Resp: 464

Ion	Ratio	Lower	Upper
330	100		
332	93.3	75.2	112.8
141	49.1	43.4	65.2

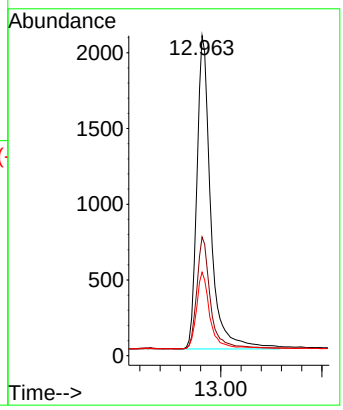




#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:172 Resp: 528

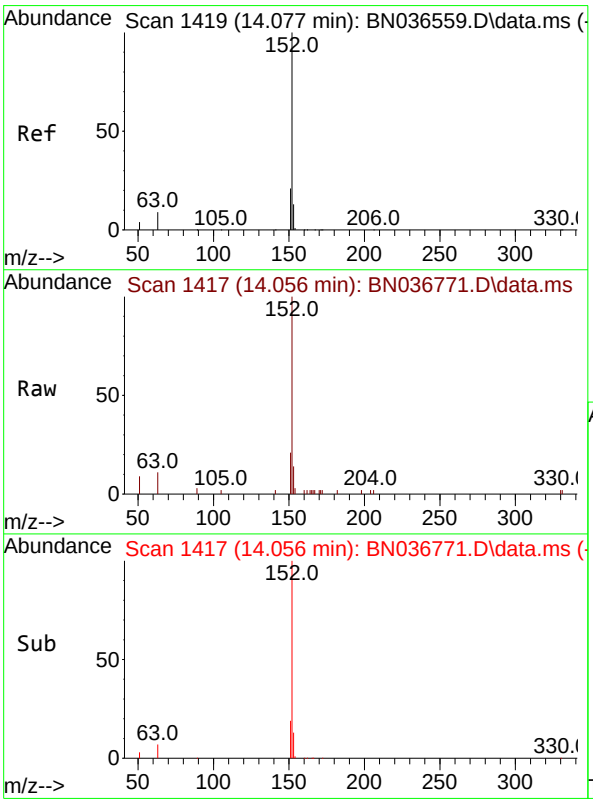
Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	26.1	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

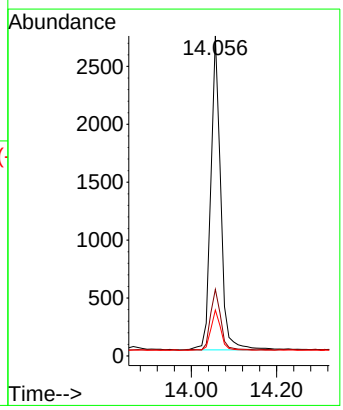
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

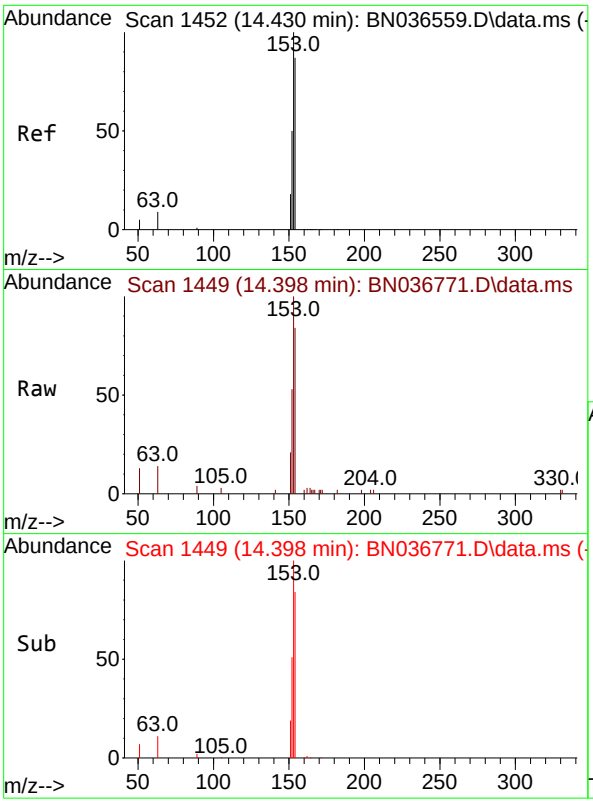


#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 4358

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.4
153	13.1	10.6	15.8

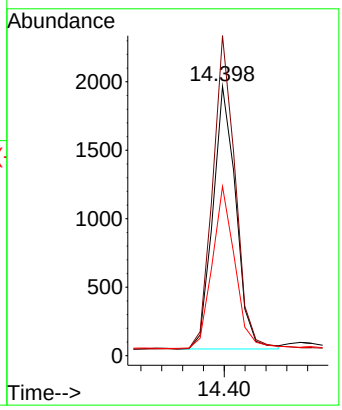




#17
Acenaphthene
Concen: 0.365 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:154 Resp: 294

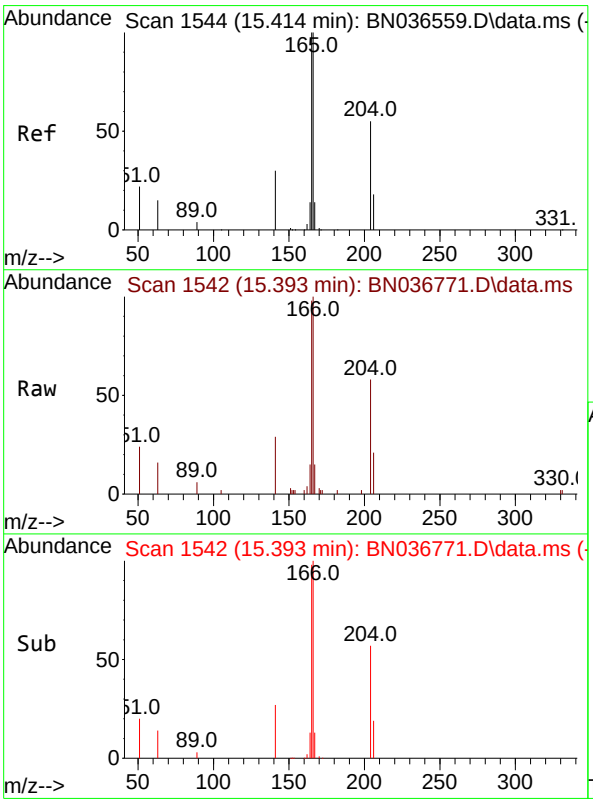
Ion	Ratio	Lower	Upper
154	100		
153	117.7	94.1	141.1
152	61.6	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

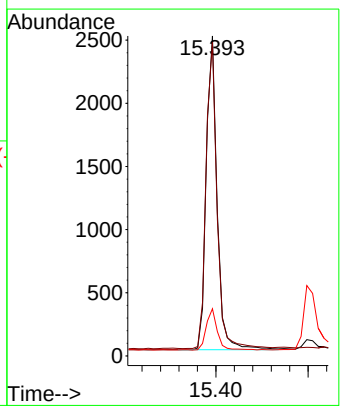
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

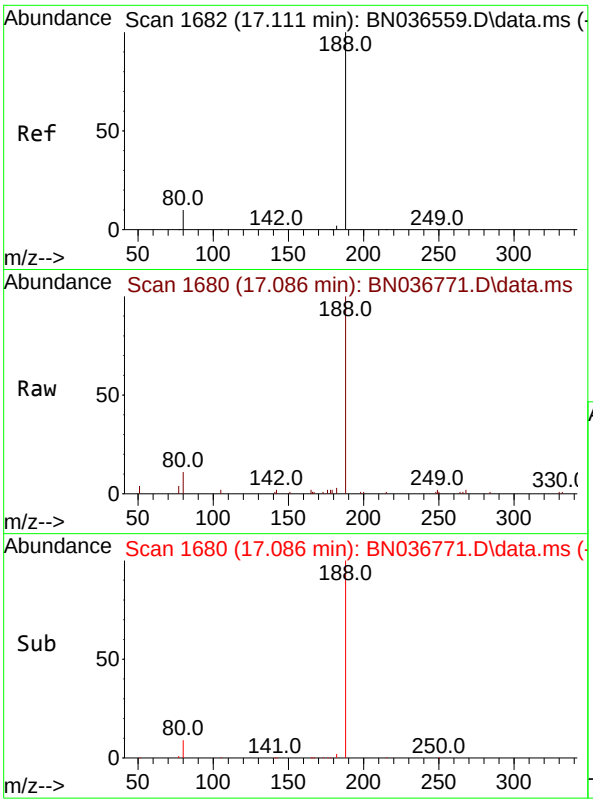


#18
Fluorene
Concen: 0.376 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:166 Resp: 4111

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.8	119.8
167	13.4	10.6	15.8

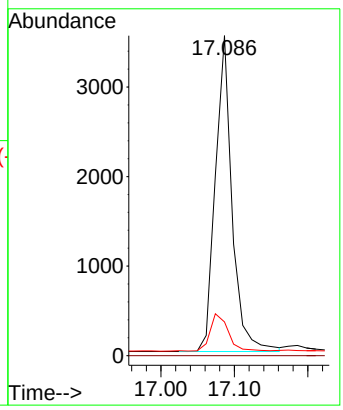




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:188 Resp: 557

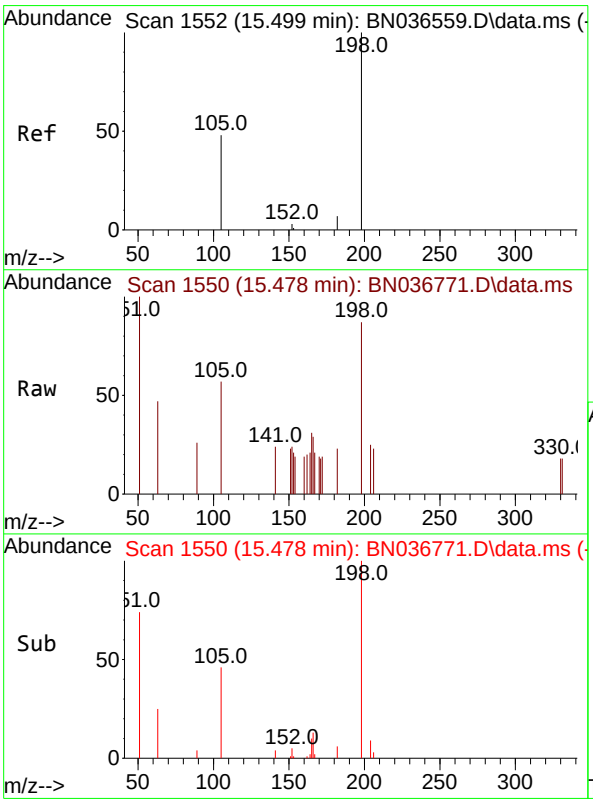
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

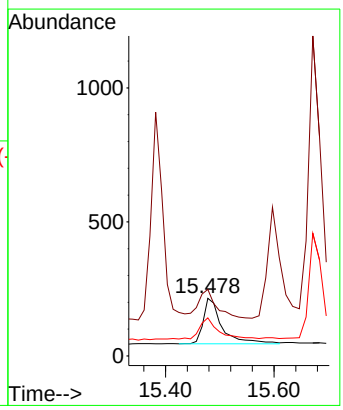
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

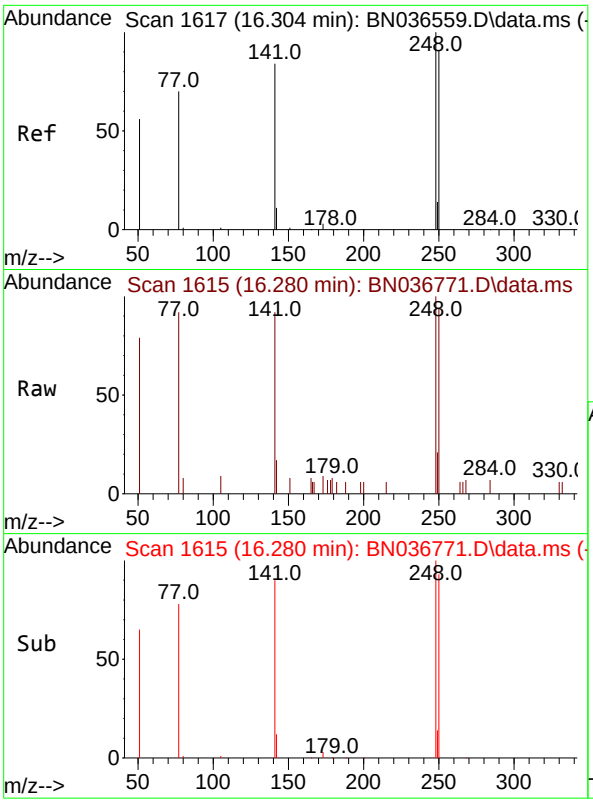


#20
4,6-Dinitro-2-methylphenol
Concen: 0.446 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:198 Resp: 428

Ion	Ratio	Lower	Upper
198	100		
51	115.3	107.9	161.9
105	66.0	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

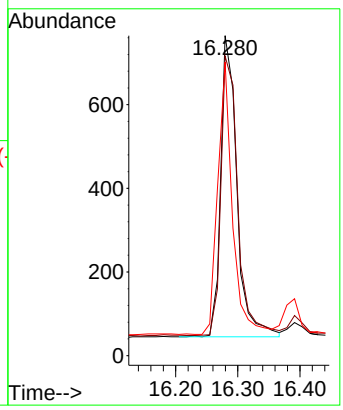
Tgt Ion:248 Resp: 130(

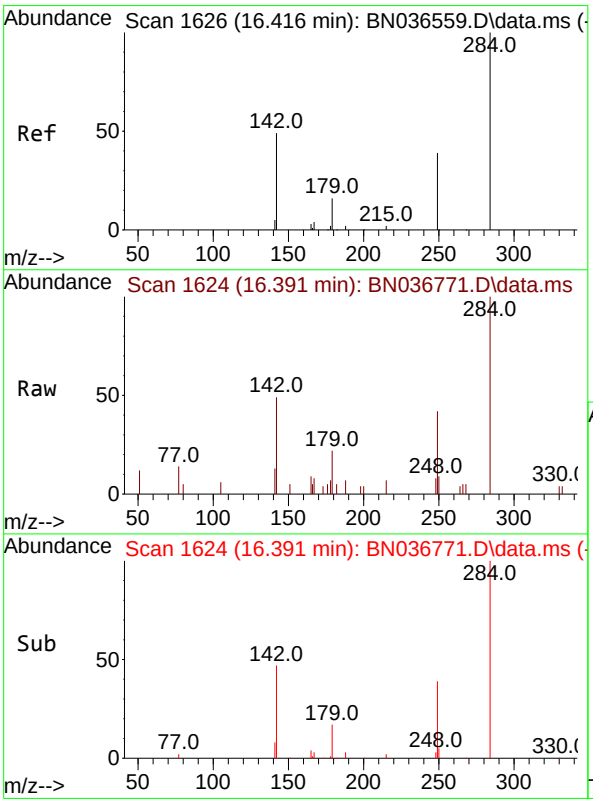
Ion	Ratio	Lower	Upper
248	100		
250	93.6	73.0	109.6
141	91.8	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

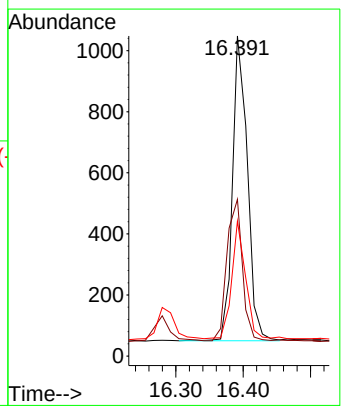


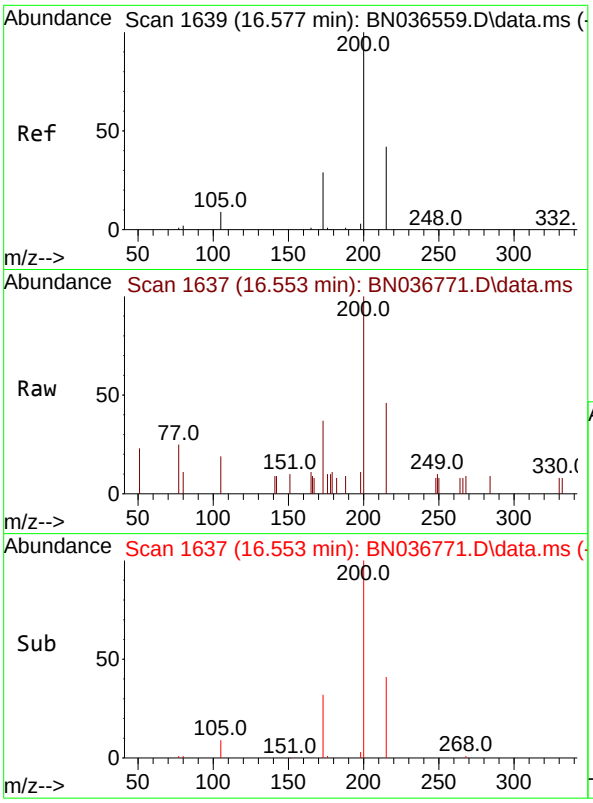


#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:284 Resp: 1537

Ion	Ratio	Lower	Upper
284	100		
142	49.5	37.0	55.4
249	36.2	28.1	42.1

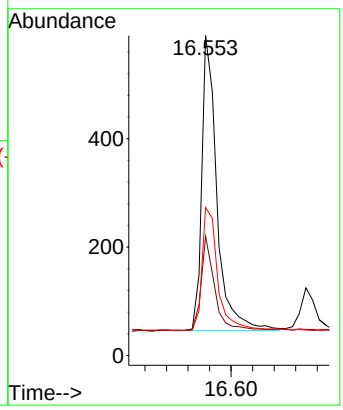




#23
Atrazine
Concen: 0.380 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:200 Resp: 106

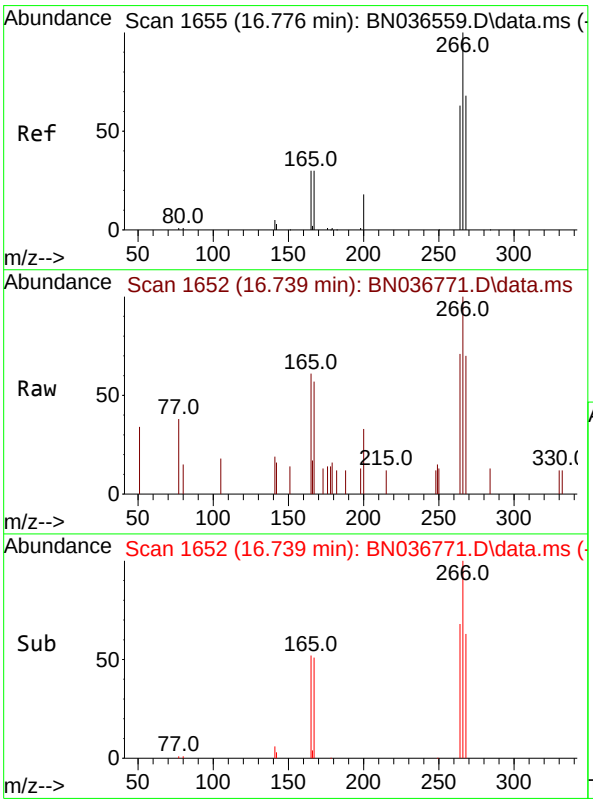
Ion	Ratio	Lower	Upper
200	100		
173	37.3	27.3	40.9
215	46.3	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

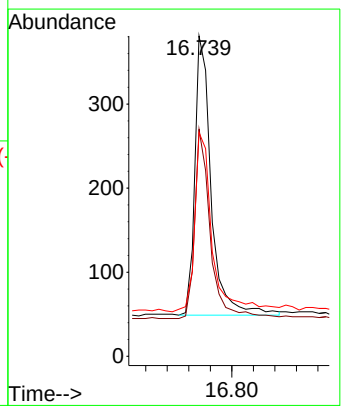
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

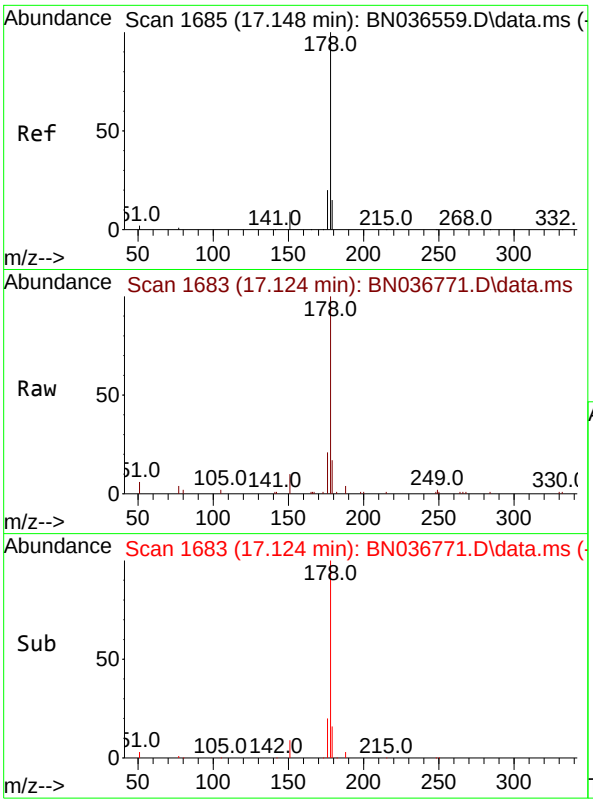


#24
Pentachlorophenol
Concen: 0.365 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:266 Resp: 702

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	69.2	50.9	76.3

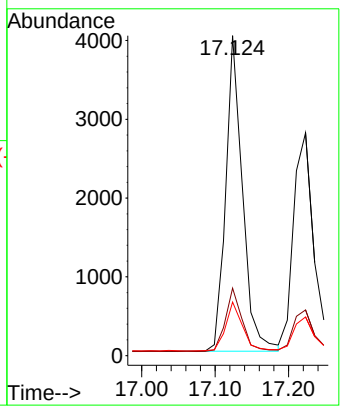




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 636

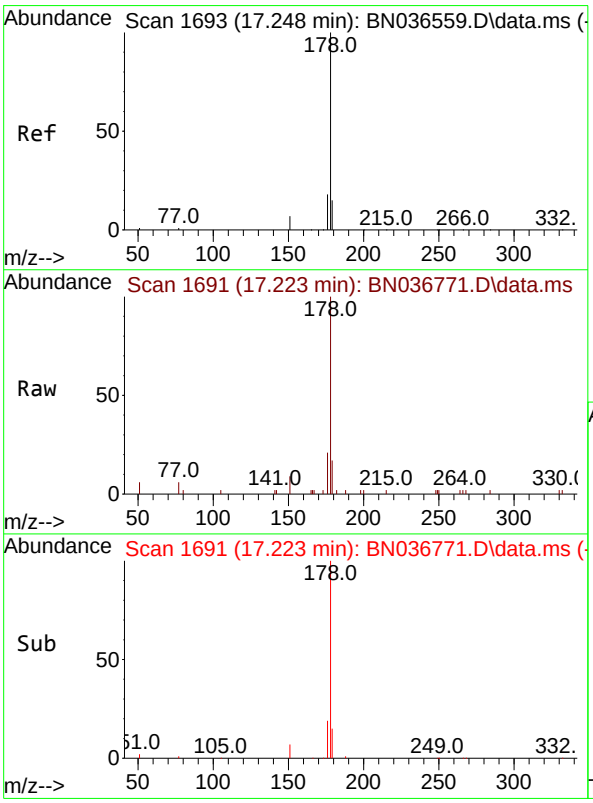
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.8	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

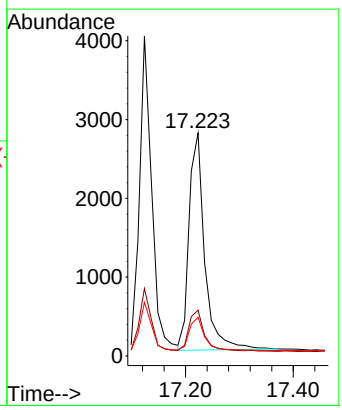
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

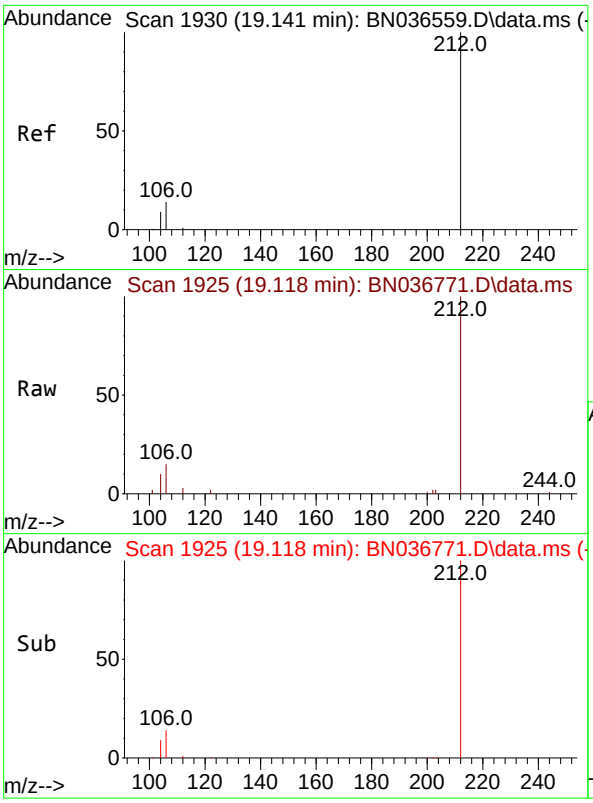


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 5569

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.6	18.8

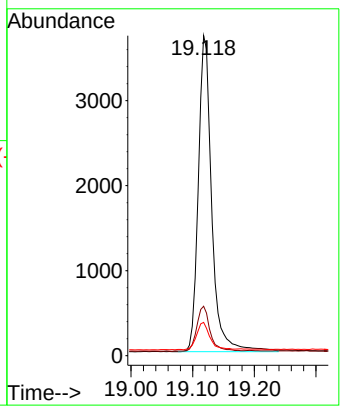




#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:212 Resp: 563

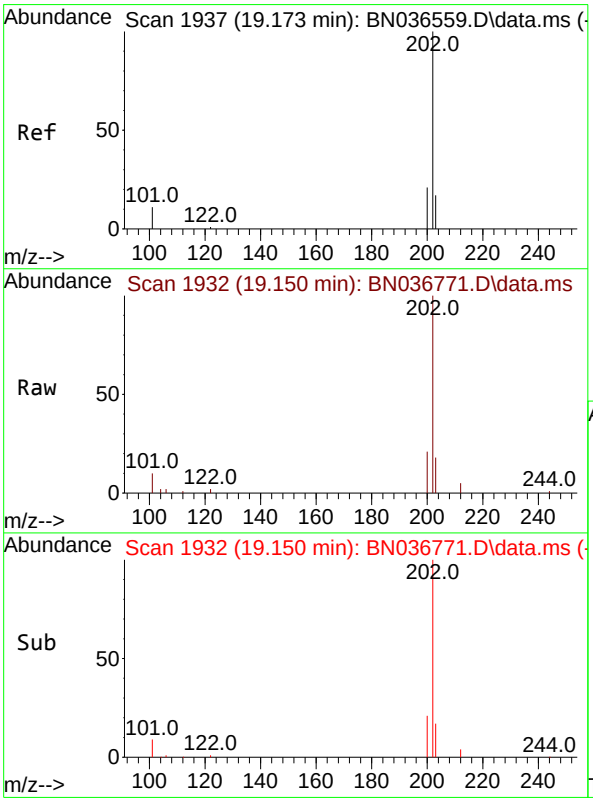
Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.6	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

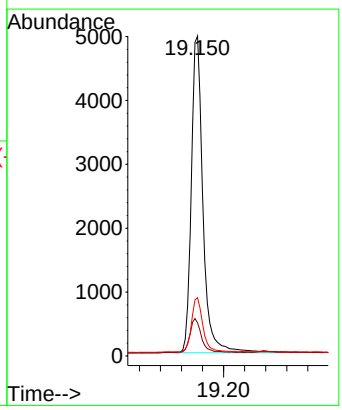
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

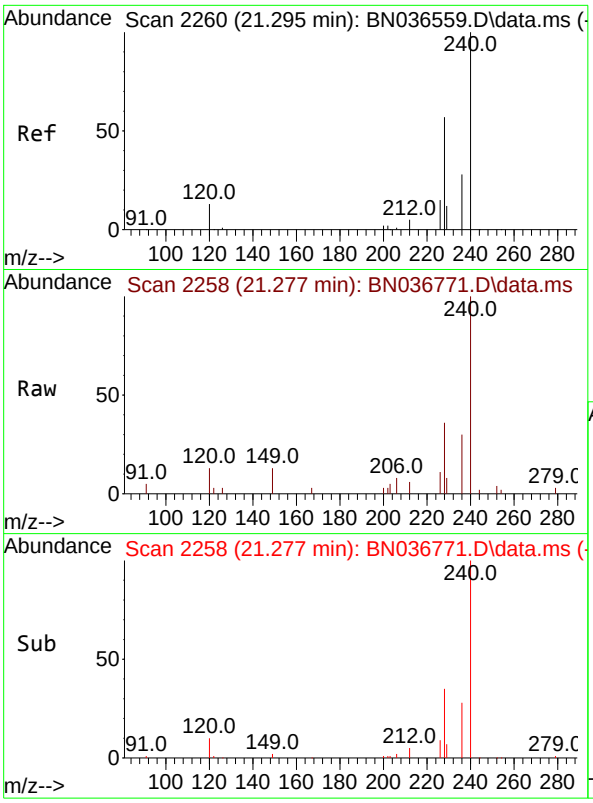


#28
Fluoranthene
Concen: 0.406 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7617

Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	16.8	13.5	20.3

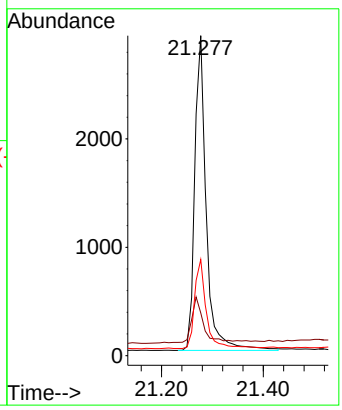




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:240 Resp: 455

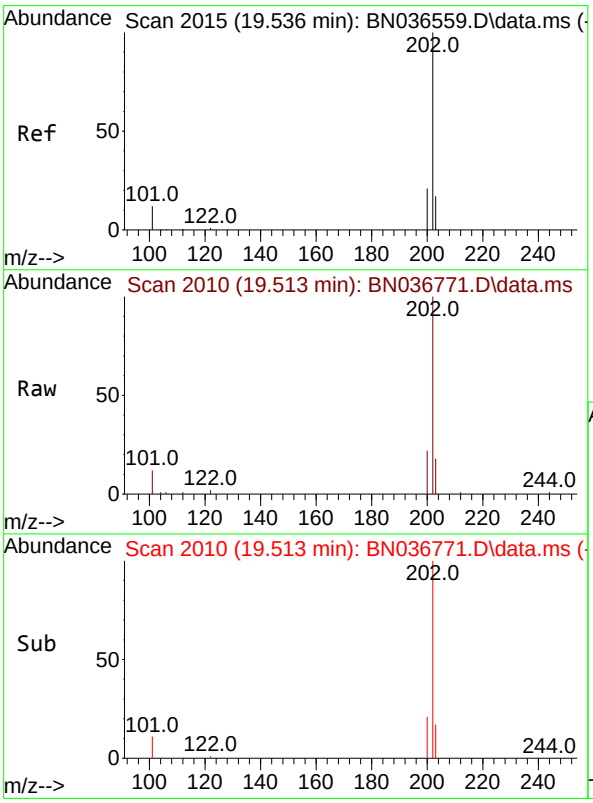
Ion	Ratio	Lower	Upper
240	100		
120	13.3	14.6	22.0
236	30.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

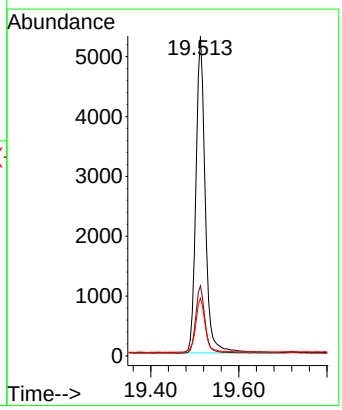
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

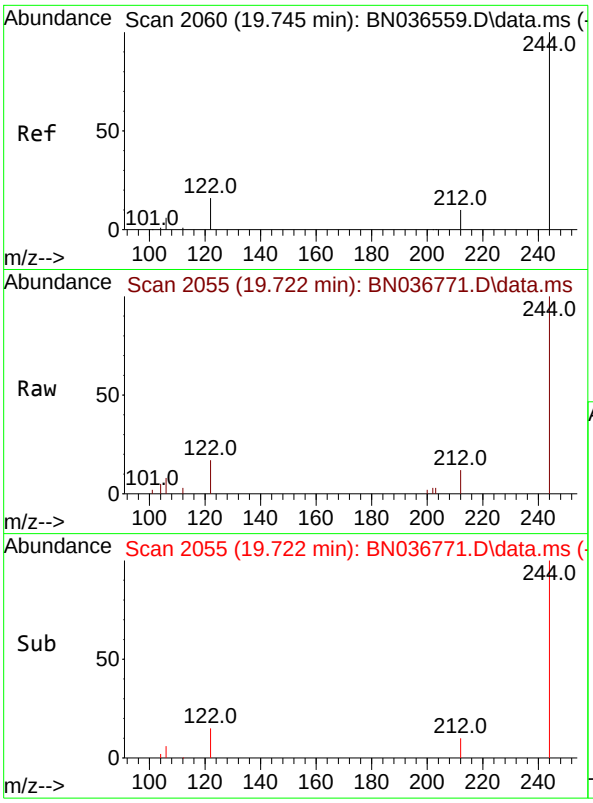


#30
Pyrene
Concen: 0.350 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7795

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.3	14.1	21.1

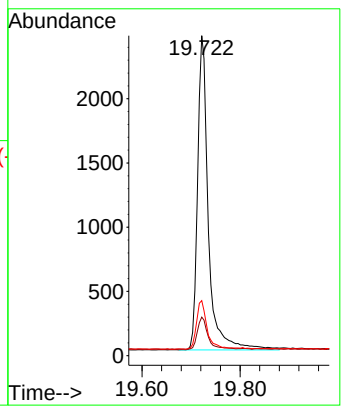




#31
Terphenyl-d14
Concen: 0.341 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:244 Resp: 371

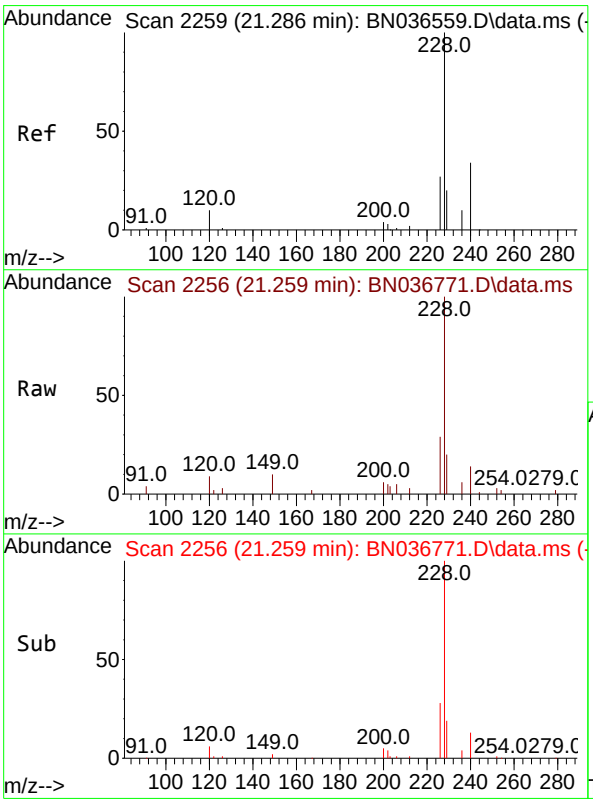
Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.2	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

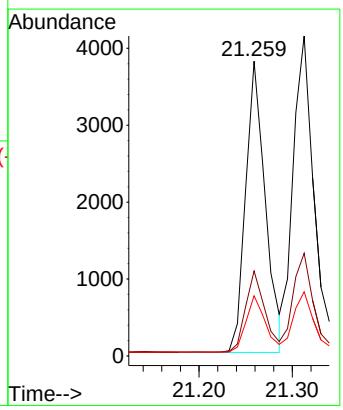
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

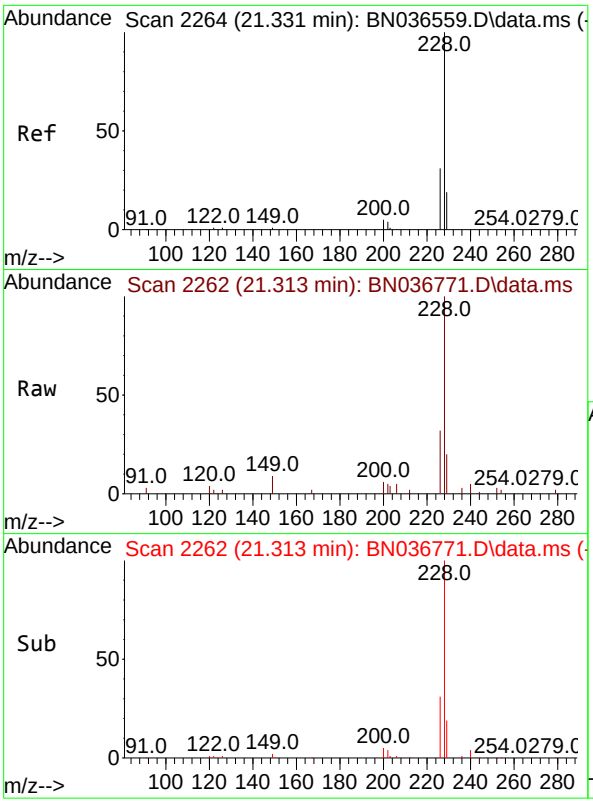


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 5566

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.4	16.6	25.0

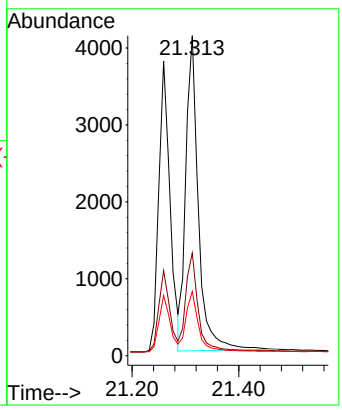




#33
Chrysene
Concen: 0.389 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 672

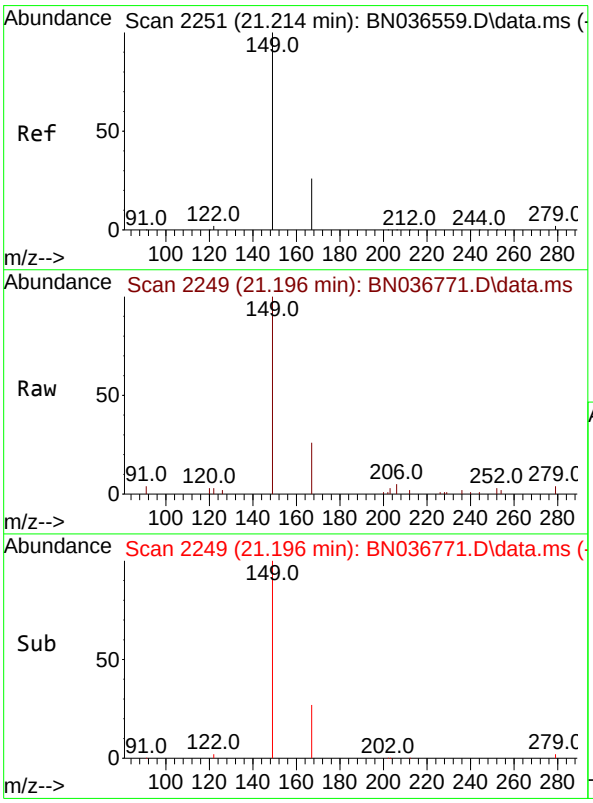
Ion	Ratio	Lower	Upper
228	100		
226	32.1	25.3	37.9
229	20.0	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

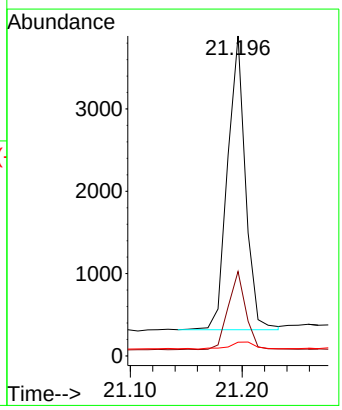
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

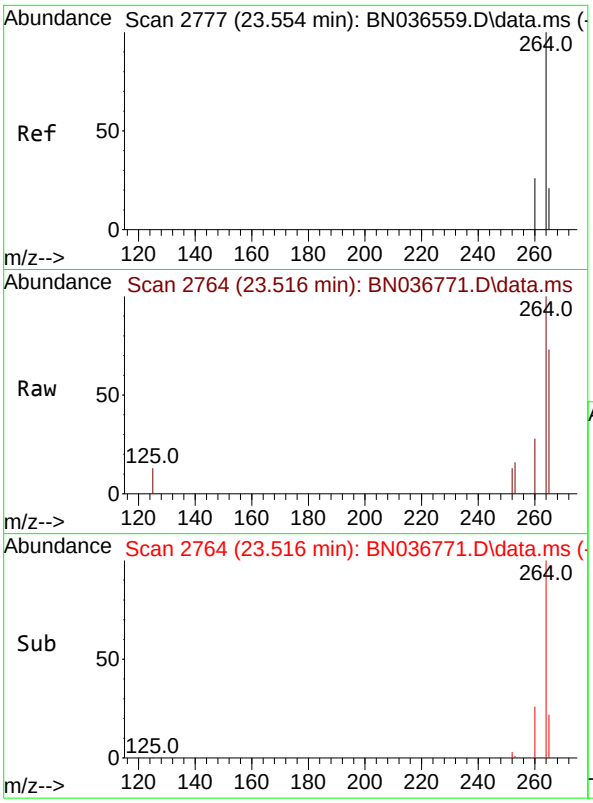


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:149 Resp: 3968

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.3	3.6	5.4#

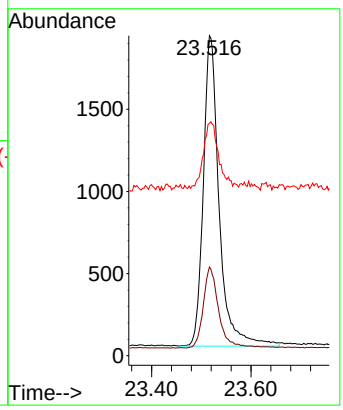




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:264 Resp: 416

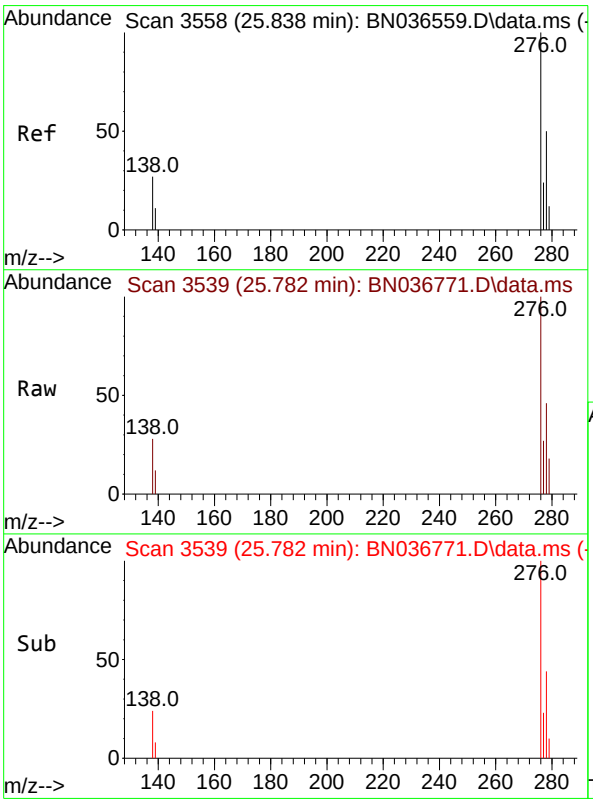
Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	72.6	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

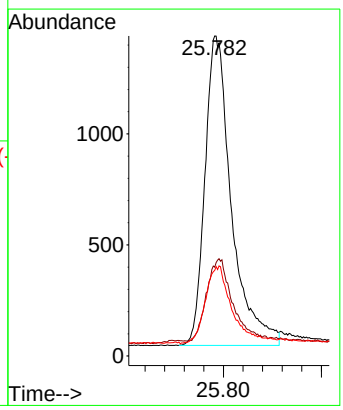
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

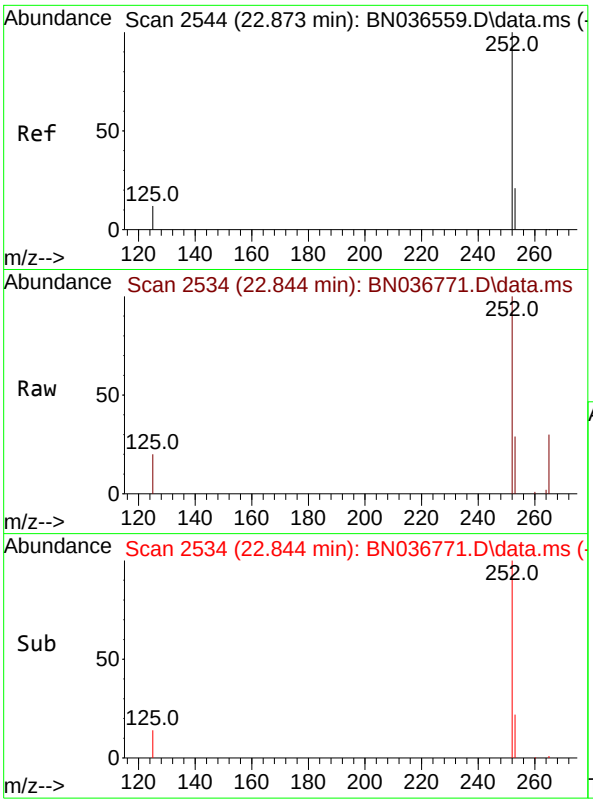


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 5233

Ion	Ratio	Lower	Upper
276	100		
138	25.8	23.4	35.2
277	25.2	20.0	30.0

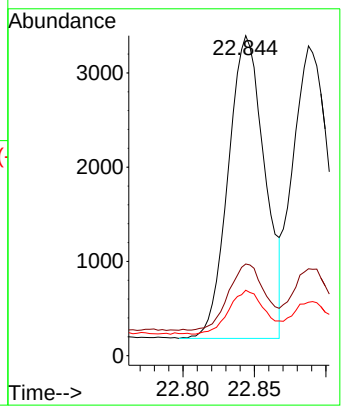




#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 572

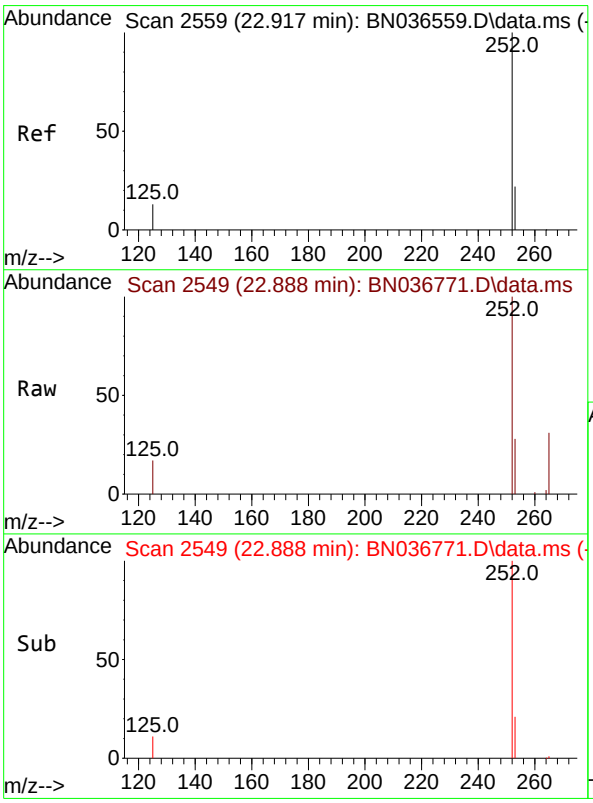
Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.5	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

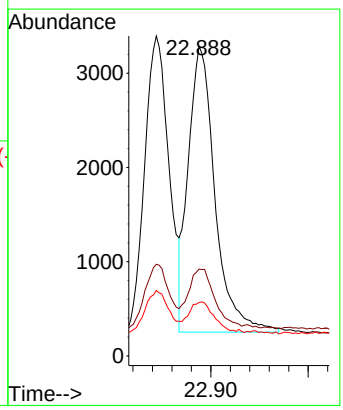
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

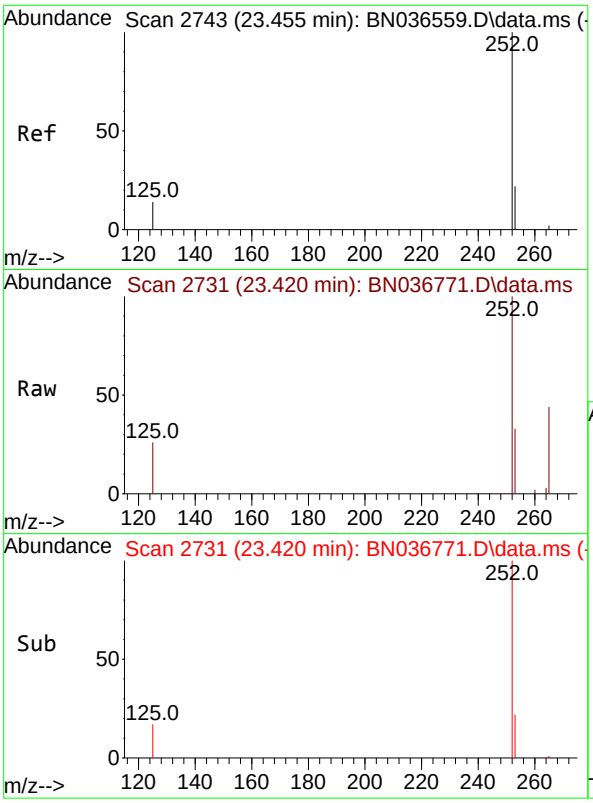


#38
Benzo(k)fluoranthene
Concen: 0.364 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 5791

Ion	Ratio	Lower	Upper
252	100		
253	28.0	24.6	36.8
125	17.2	17.8	26.8#

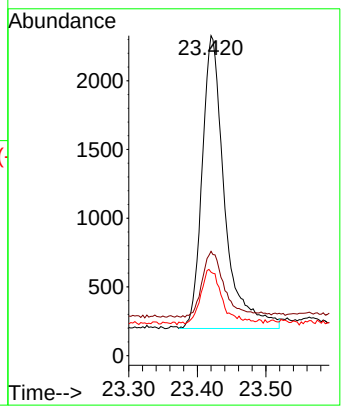




#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 486

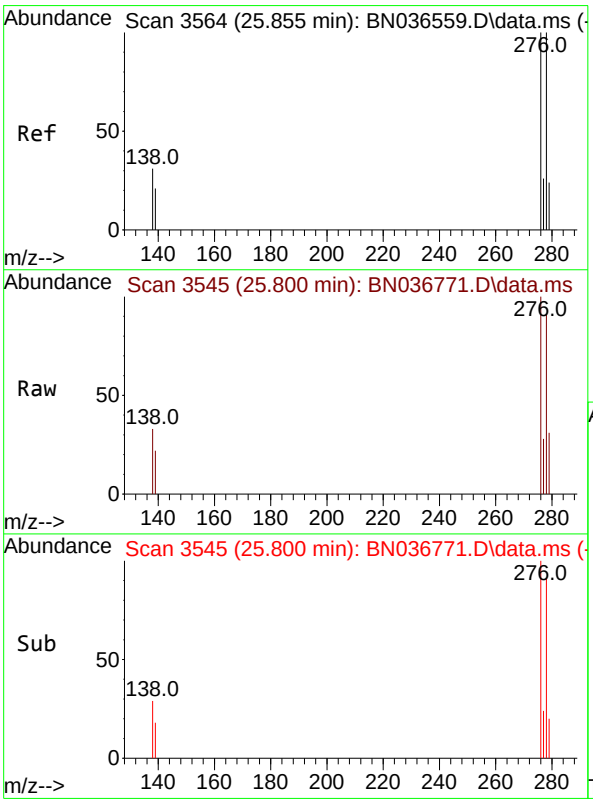
Ion	Ratio	Lower	Upper
252	100		
253	32.6	27.8	41.8
125	26.1	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

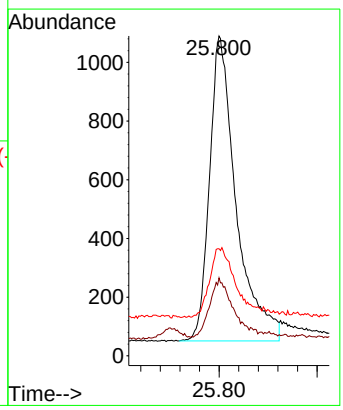
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

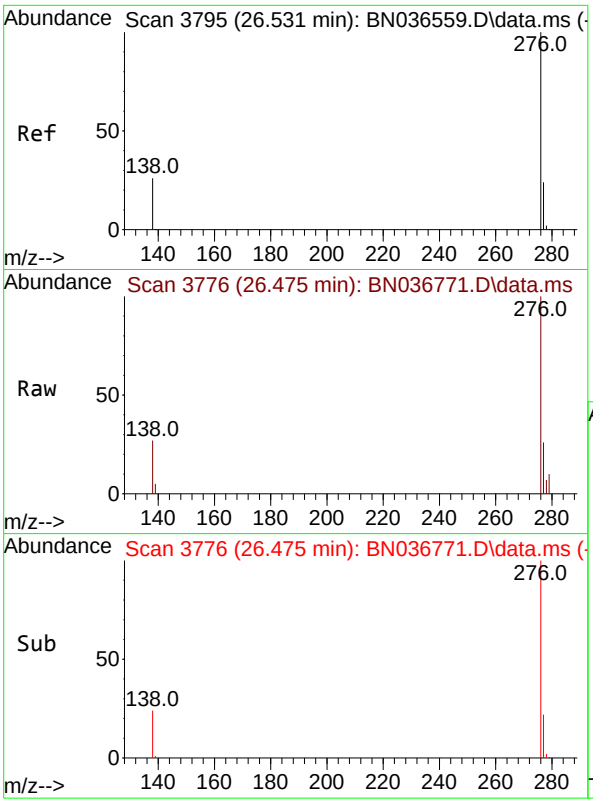


#40
Dibenzo(a,h)anthracene
Concen: 0.334 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:278 Resp: 3914

Ion	Ratio	Lower	Upper
278	100		
139	24.4	20.8	31.2
279	33.5	28.8	43.2

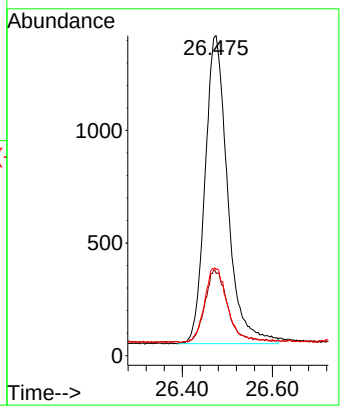




#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 475

Ion	Ratio	Lower	Upper
276	100		
277	25.7	22.2	33.4
138	27.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 14:23:03 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	74	-0.03
2		1,4-Dioxane	0.444	0.460	-3.6	68	-0.01
3		n-Nitrosodimethylamine	0.898	0.870	3.1	69	-0.01
4	S	2-Fluorophenol	0.932	0.846	9.2	64	-0.02
5	S	Phenol-d6	1.152	1.010	12.3	66	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.021	14.2	64	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	82	-0.02
8	S	Nitrobenzene-d5	0.435	0.354	18.6	70	-0.02
9		Naphthalene	1.177	1.044	11.3	71	-0.03
10		Hexachlorobutadiene	0.277	0.250	9.7	70	-0.03
11	SURR	2-Methylnaphthalene-d10	0.595	0.540	9.2	73	-0.03
12		2-Methylnaphthalene	0.749	0.688	8.1	74	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	86	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.177	2.7	82	-0.02
15	S	2-Fluorobiphenyl	2.327	2.021	13.1	73	-0.03
16		Acenaphthylene	1.888	1.667	11.7	74	-0.02
17		Acenaphthene	1.236	1.127	8.8	76	-0.03
18		Fluorene	1.672	1.572	6.0	77	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.077	10.5	93	-0.02
21		4-Bromophenyl-phenylether	0.251	0.233	7.2	79	-0.02
22		Hexachlorobenzene	0.303	0.276	8.9	76	-0.02
23		Atrazine	0.201	0.191	5.0	83	-0.02
24		Pentachlorophenol	0.138	0.126	8.7	86	-0.04
25		Phenanthrene	1.200	1.143	4.7	82	-0.02
26		Anthracene	1.083	1.000	7.7	81	-0.02
27	SURR	Fluoranthene-d10	1.025	1.012	1.3	84	-0.02
28		Fluoranthene	1.348	1.367	-1.4	87	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	111	-0.02
30		Pyrene	1.956	1.711	12.5	89	-0.02
31	S	Terphenyl-d14	0.958	0.816	14.8	88	-0.02
32		Benzo(a)anthracene	1.391	1.222	12.1	94	-0.03
33		Chrysene	1.520	1.477	2.8	102	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.871	12.0	92	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	118	-0.04
36		Indeno(1,2,3-cd)pyrene	1.444	1.256	13.0	96	-0.06
37		Benzo(b)fluoranthene	1.456	1.373	5.7	104	-0.03
38		Benzo(k)fluoranthene	1.527	1.390	9.0	101	-0.03
39	C	Benzo(a)pyrene	1.226	1.168	4.7	106	-0.03
40		Dibenzo(a,h)anthracene	1.124	0.939	16.5	95	-0.06
41		Benzo(g,h,i)perylene	1.286	1.142	11.2	97	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 14:23:03 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	74	-0.03
2		1,4-Dioxane	0.400	0.414	-3.5	68	-0.01
3		n-Nitrosodimethylamine	0.400	0.388	3.0	69	-0.01
4	S	2-Fluorophenol	0.400	0.363	9.3	64	-0.02
5	S	Phenol-d6	0.400	0.351	12.3	66	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.343	14.2	64	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	82	-0.02
8	S	Nitrobenzene-d5	0.400	0.326	18.5	70	-0.02
9		Naphthalene	0.400	0.355	11.3	71	-0.03
10		Hexachlorobutadiene	0.400	0.361	9.8	70	-0.03
11	SURR	2-Methylnaphthalene-d10	0.400	0.363	9.3	73	-0.03
12		2-Methylnaphthalene	0.400	0.368	8.0	74	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	86	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.391	2.3	82	-0.02
15	S	2-Fluorobiphenyl	0.400	0.347	13.3	73	-0.03
16		Acenaphthylene	0.400	0.353	11.8	74	-0.02
17		Acenaphthene	0.400	0.365	8.8	76	-0.03
18		Fluorene	0.400	0.376	6.0	77	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.446	-11.5	93	-0.02
21		4-Bromophenyl-phenylether	0.400	0.372	7.0	79	-0.02
22		Hexachlorobenzene	0.400	0.365	8.8	76	-0.02
23		Atrazine	0.400	0.380	5.0	83	-0.02
24		Pentachlorophenol	0.400	0.365	8.8	86	-0.04
25		Phenanthrene	0.400	0.381	4.8	82	-0.02
26		Anthracene	0.400	0.369	7.8	81	-0.02
27	SURR	Fluoranthene-d10	0.400	0.395	1.3	84	-0.02
28		Fluoranthene	0.400	0.406	-1.5	87	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	111	-0.02
30		Pyrene	0.400	0.350	12.5	89	-0.02
31	S	Terphenyl-d14	0.400	0.341	14.8	88	-0.02
32		Benzo(a)anthracene	0.400	0.351	12.3	94	-0.03
33		Chrysene	0.400	0.389	2.8	102	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	92	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	118	-0.04
36		Indeno(1,2,3-cd)pyrene	0.400	0.348	13.0	96	-0.06
37		Benzo(b)fluoranthene	0.400	0.377	5.8	104	-0.03
38		Benzo(k)fluoranthene	0.400	0.364	9.0	101	-0.03
39	C	Benzo(a)pyrene	0.400	0.381	4.8	106	-0.03
40		Dibenzo(a,h)anthracene	0.400	0.334	16.5	95	-0.06
41		Benzo(g,h,i)perylene	0.400	0.355	11.3	97	-0.06

(#) = 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: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG No.: Q1608

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 15:14

Lab File ID: BN036773.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	0.548		-7.9	20.0
Fluoranthene-d10	1.025	1.058		3.2	20.0
2-Fluorophenol	0.932	0.827		-11.3	20.0
Phenol-d6	1.152	0.964		-16.3	20.0
Nitrobenzene-d5	0.435	0.365		-16.1	20.0
2-Fluorobiphenyl	2.327	1.931		-17.0	20.0
2,4,6-Tribromophenol	0.182	0.175		-3.8	20.0
Terphenyl-d14	0.958	0.770		-19.6	20.0
1,4-Dioxane	0.444	0.447		0.7	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\BN032825\
Data File : BN036773.D
Acq On : 28 Mar 2025 15:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 28 15:45:44 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

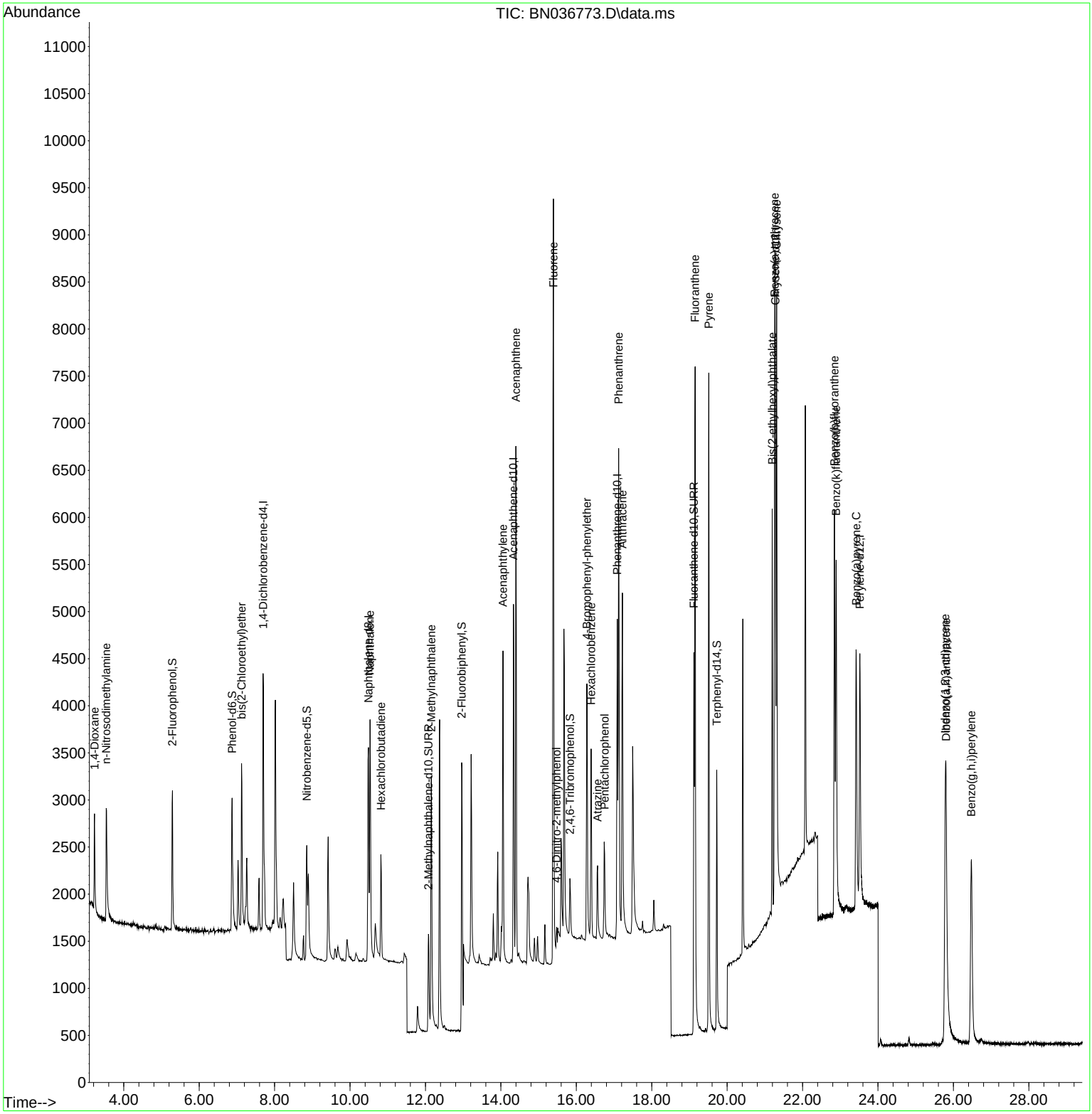
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1368	0.400	ng		-0.03
7) Naphthalene-d8	10.487	136	3508	0.400	ng		-0.02
13) Acenaphthene-d10	14.334	164	2285	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	4820	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	4311	0.400	ng		-0.02
35) Perylene-d12	23.519	264	3840	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1132	0.355	ng		-0.02
5) Phenol-d6	6.872	99	1319	0.335	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1281	0.336	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1923	0.369	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	401	0.387	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	4412	0.332	ng		-0.03
27) Fluoranthene-d10	19.118	212	5100	0.413	ng		-0.02
31) Terphenyl-d14	19.726	244	3318	0.321	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	612	0.403	ng		97
3) n-Nitrosodimethylamine	3.535	42	1197	0.390	ng	#	94
6) bis(2-Chloroethyl)ether	7.125	93	1426	0.350	ng		98
9) Naphthalene	10.530	128	3698	0.358	ng		96
10) Hexachlorobutadiene	10.818	225	914	0.376	ng	#	97
12) 2-Methylnaphthalene	12.156	142	2449	0.373	ng		97
16) Acenaphthylene	14.056	152	3706	0.344	ng		99
17) Acenaphthene	14.398	154	2532	0.359	ng		99
18) Fluorene	15.392	166	3533	0.370	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	336	0.419	ng		92
21) 4-Bromophenyl-phenylether	16.280	248	1116	0.370	ng		92
22) Hexachlorobenzene	16.391	284	1346	0.369	ng		96
23) Atrazine	16.565	200	936	0.387	ng		96
24) Pentachlorophenol	16.751	266	664	0.399	ng		99
25) Phenanthrene	17.124	178	5603	0.388	ng		100
26) Anthracene	17.223	178	4854	0.372	ng		100
28) Fluoranthene	19.150	202	6857	0.422	ng		99
30) Pyrene	19.513	202	7023	0.333	ng		100
32) Benzo(a)anthracene	21.259	228	5192	0.346	ng		98
33) Chrysene	21.313	228	6439	0.393	ng		100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3679	0.345	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.785	276	4989	0.360	ng	#	81
37) Benzo(b)fluoranthene	22.844	252	5429	0.388	ng		97
38) Benzo(k)fluoranthene	22.891	252	5732	0.391	ng		95
39) Benzo(a)pyrene	23.420	252	4579	0.389	ng		98
40) Dibenzo(a,h)anthracene	25.806	278	3809	0.353	ng		97
41) Benzo(g,h,i)perylene	26.475	276	4542	0.368	ng		97

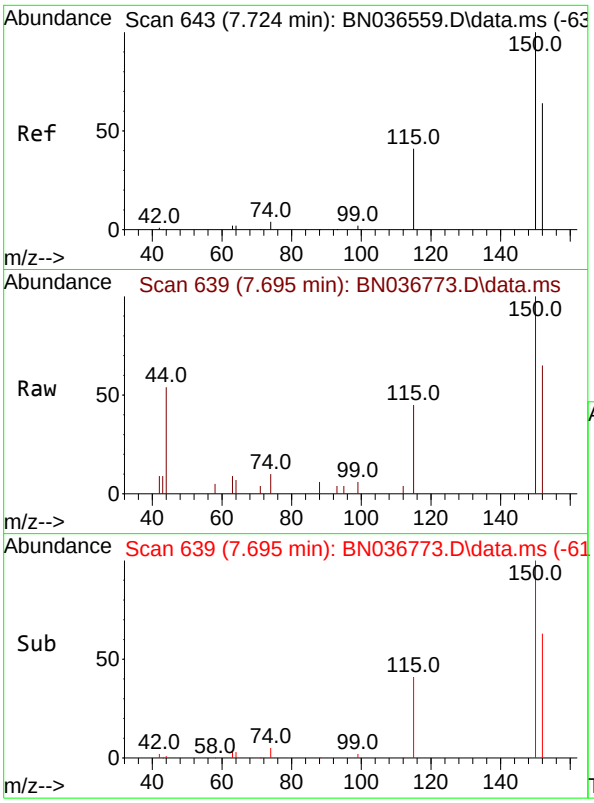
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036773.D
Acq On : 28 Mar 2025 15:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 28 15:45:44 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



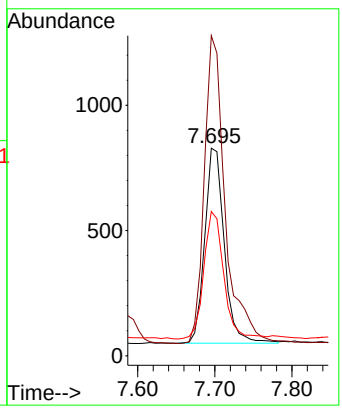


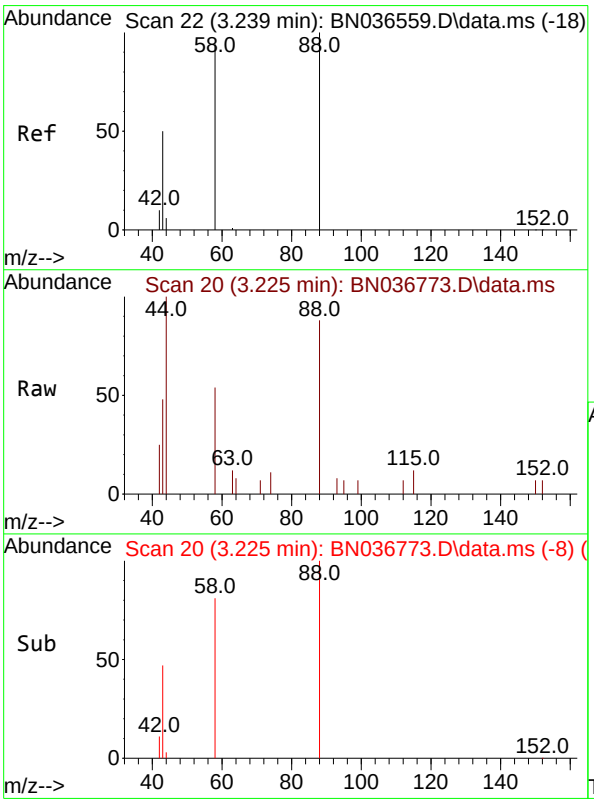
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1368

Ion	Ratio	Lower	Upper
152	100		
150	154.2	123.7	185.5
115	69.5	54.3	81.5

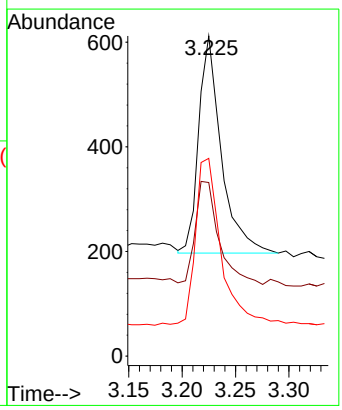


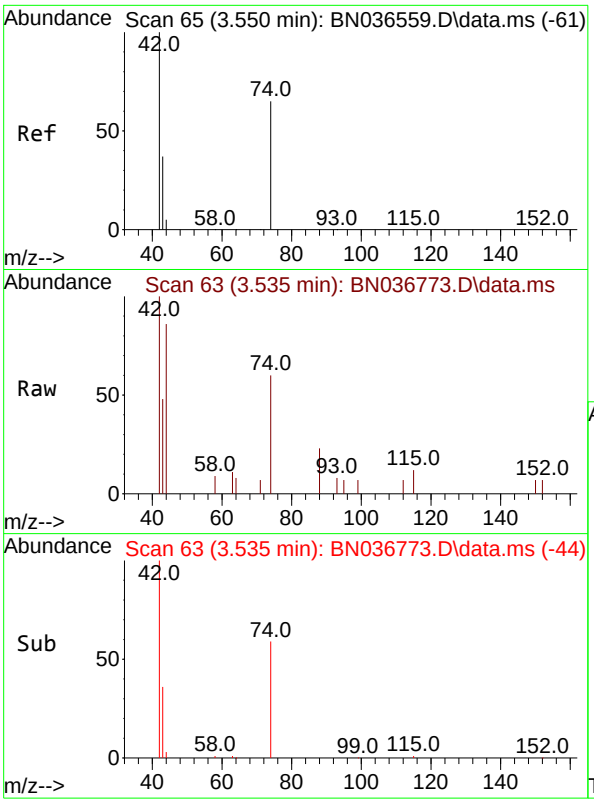


#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 88 Resp: 612

Ion	Ratio	Lower	Upper
88	100		
43	49.7	37.8	56.8
58	86.6	67.4	101.2



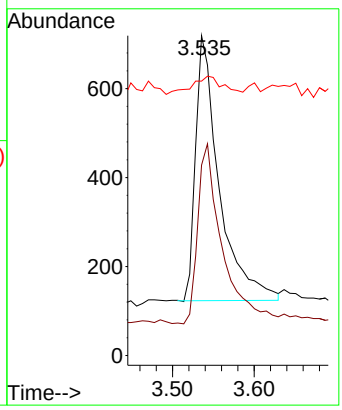


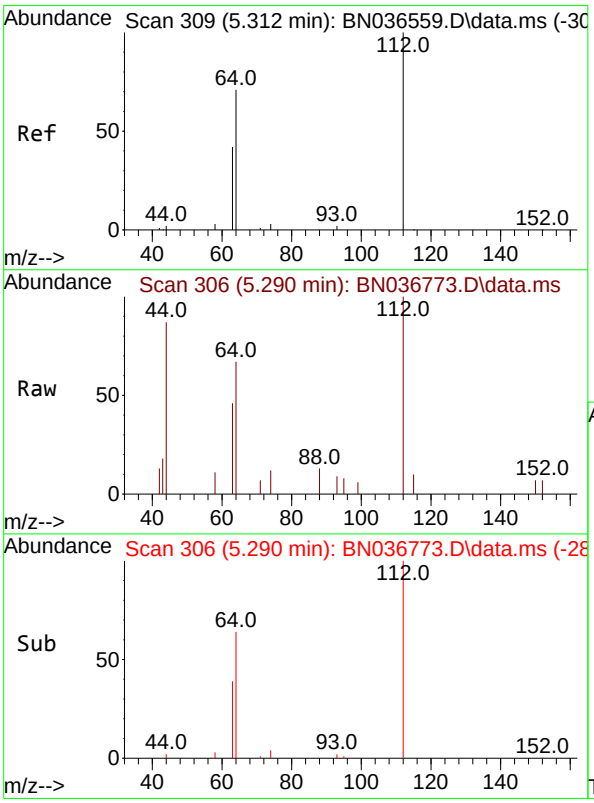
#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1197

Ion	Ratio	Lower	Upper
42	100		
74	70.5	60.6	90.8
44	9.9	6.3	9.5#

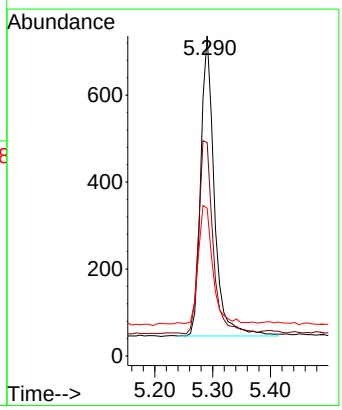


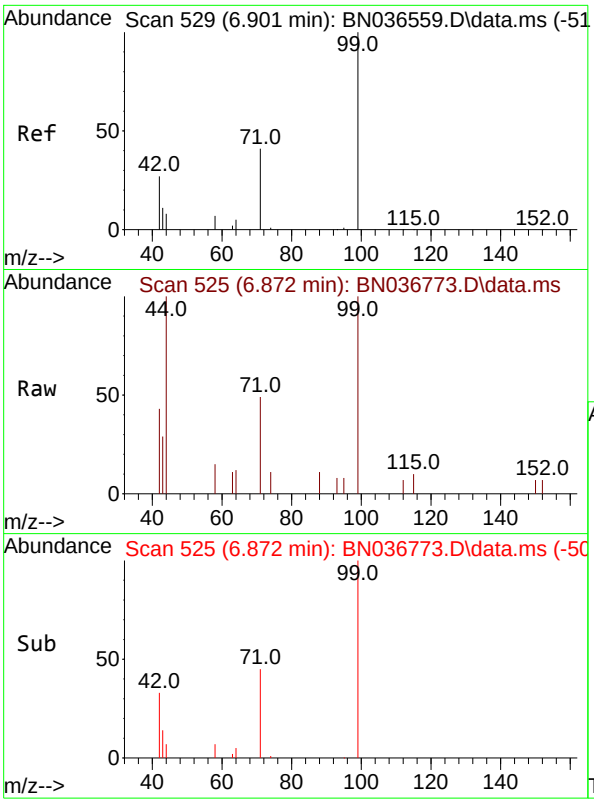


#4
2-Fluorophenol
Concen: 0.355 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:112 Resp: 1132

Ion	Ratio	Lower	Upper
112	100		
64	67.8	53.1	79.7
63	40.7	31.8	47.8



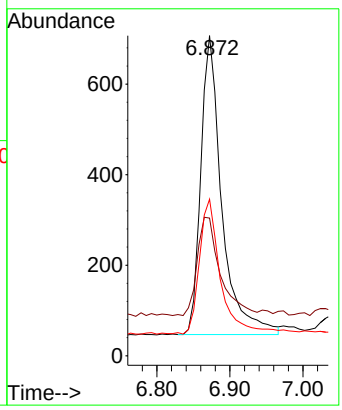


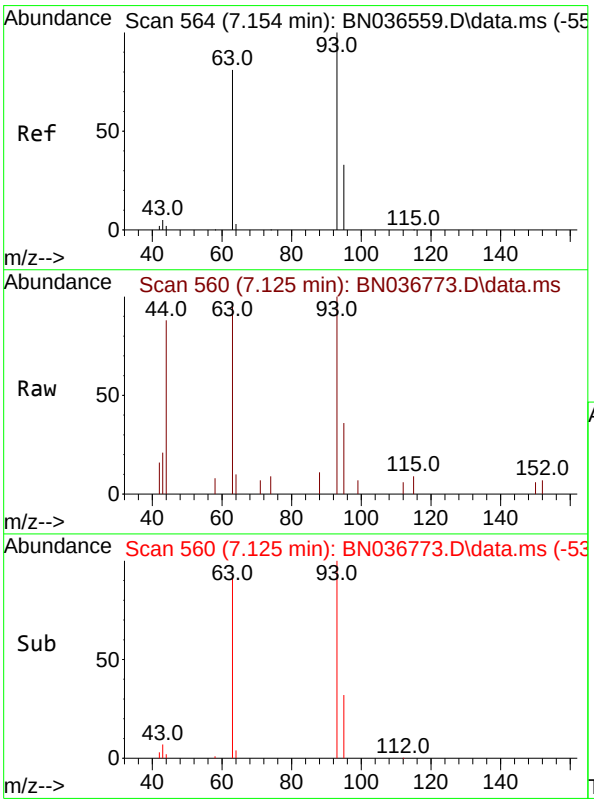
#5
Phenol-d6
Concen: 0.335 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1319

Ion	Ratio	Lower	Upper
99	100		
42	35.9	26.5	39.7
71	45.3	34.1	51.1

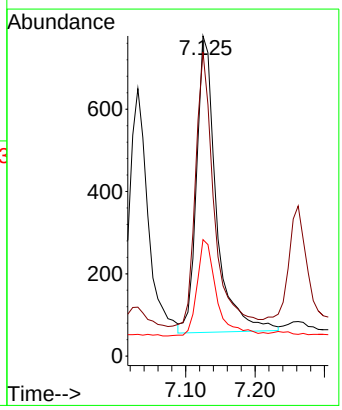


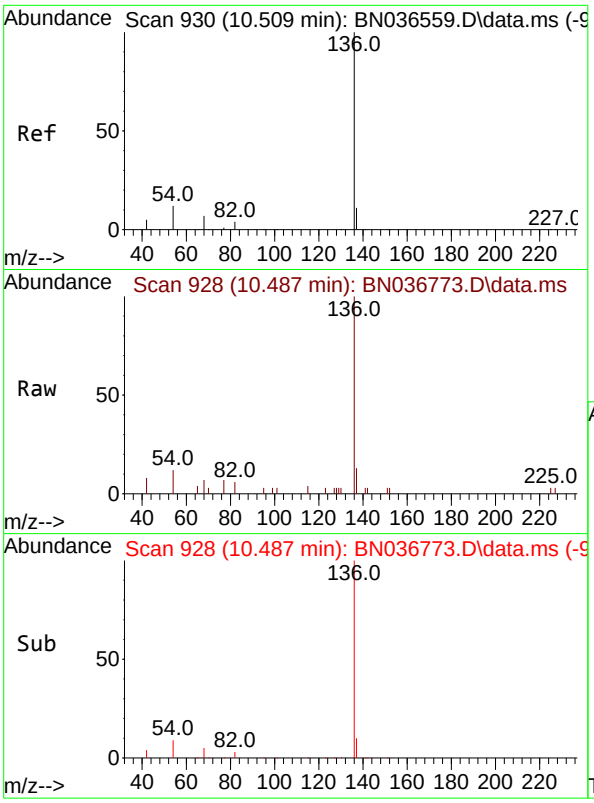


#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 93 Resp: 1426

Ion	Ratio	Lower	Upper
93	100		
63	86.5	67.7	101.5
95	32.4	25.6	38.4



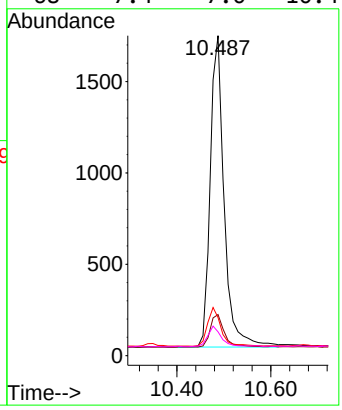


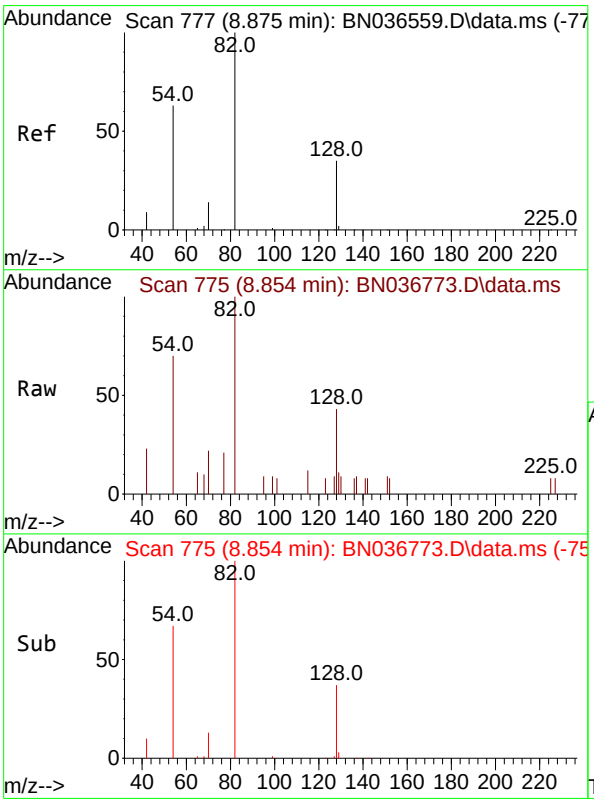
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 3508

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	11.9	11.5	17.3
68	7.4	7.0	10.4

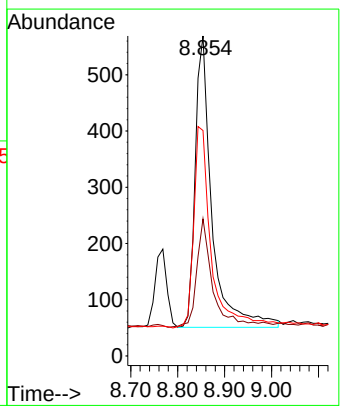


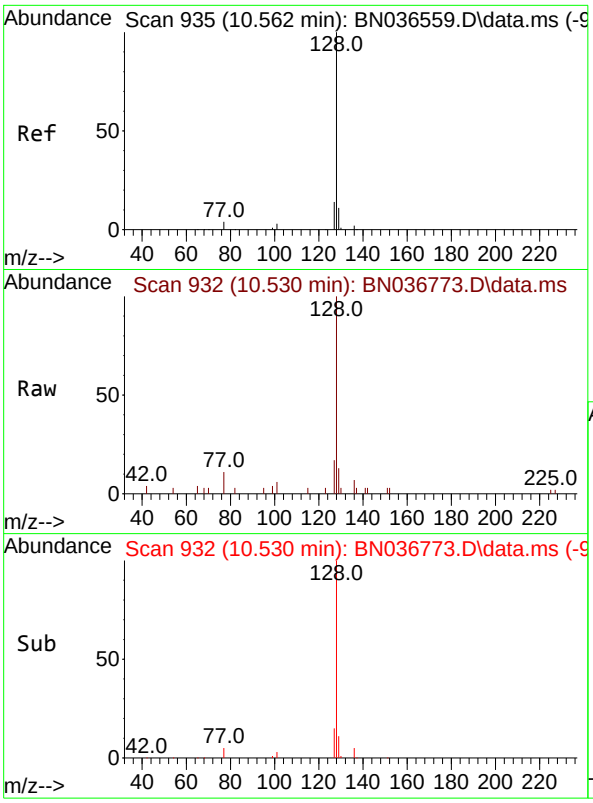


#8
Nitrobenzene-d5
Concen: 0.336 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion: 82 Resp: 1281

Ion	Ratio	Lower	Upper
82	100		
128	42.9	30.6	45.8
54	70.5	52.2	78.4



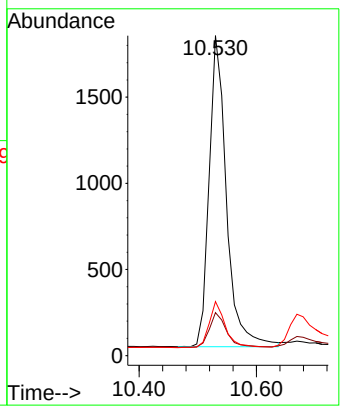


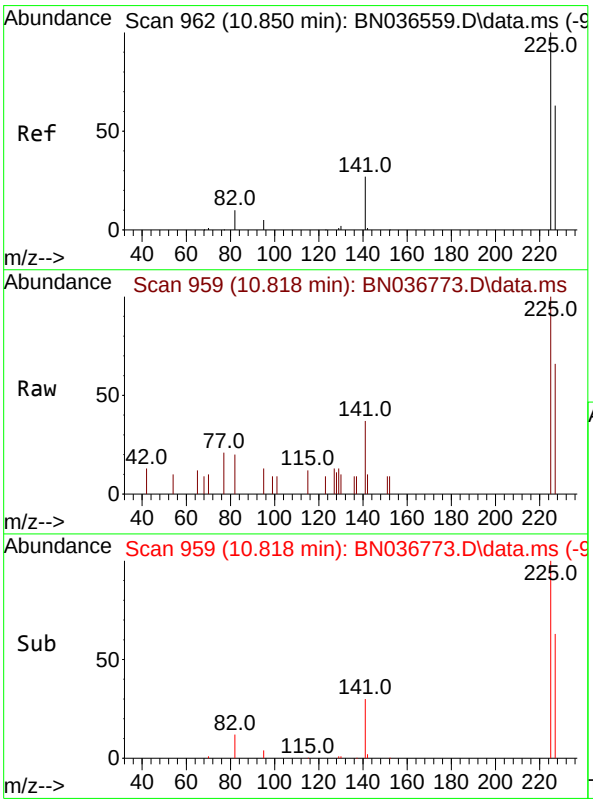
#9
Naphthalene
Concen: 0.358 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 3698

Ion	Ratio	Lower	Upper
128	100		
129	13.5	9.8	14.6
127	16.9	11.8	17.8

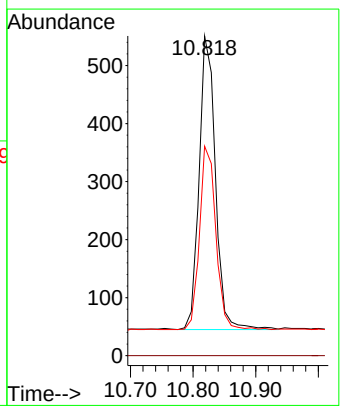


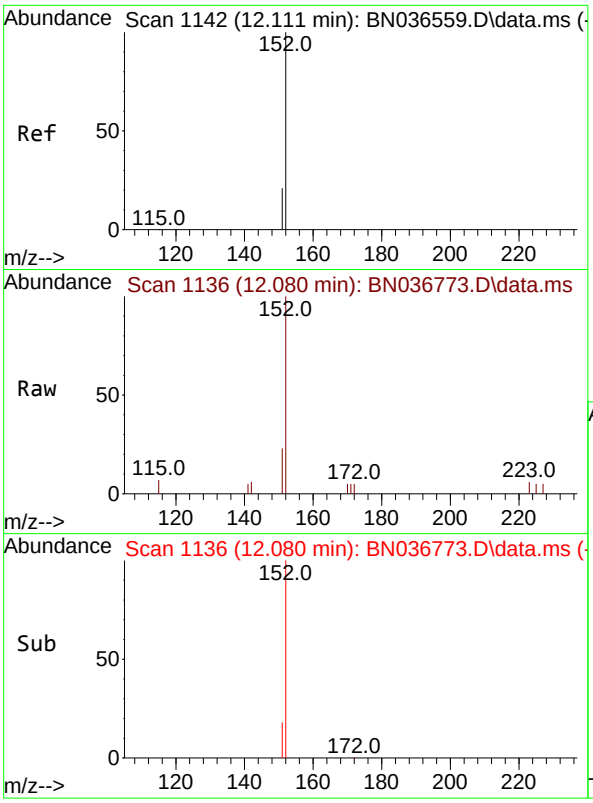


#10
Hexachlorobutadiene
Concen: 0.376 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:225 Resp: 914

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.7	51.8	77.8



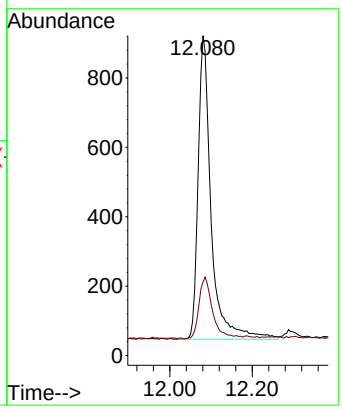


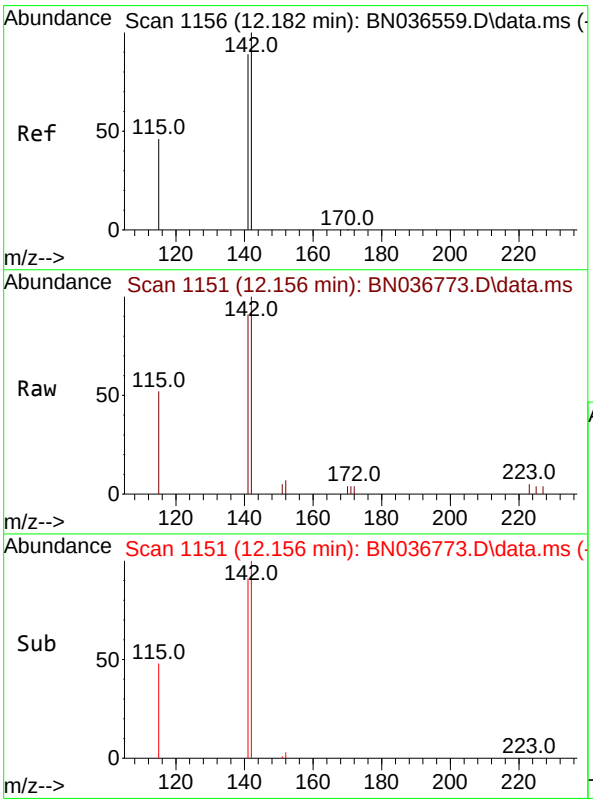
#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1923

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

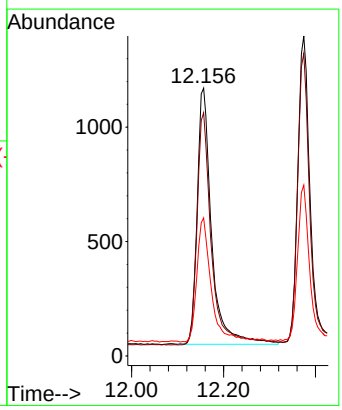


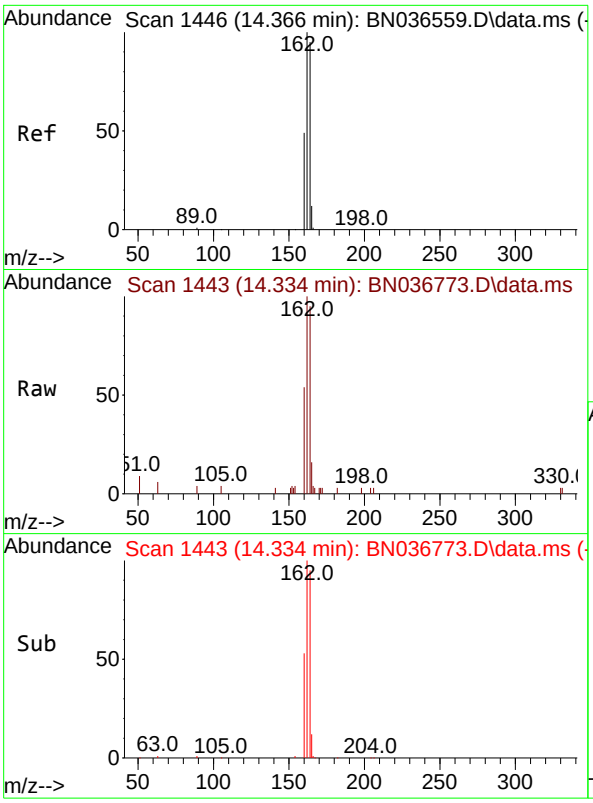


#12
2-Methylnaphthalene
Concen: 0.373 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:142 Resp: 2449

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.7	107.5
115	51.6	38.3	57.5



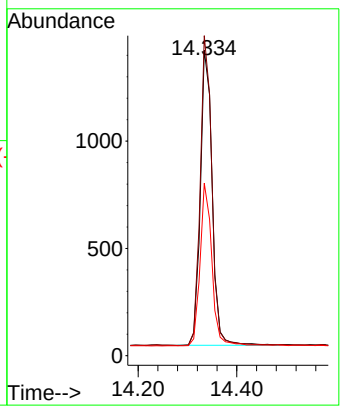


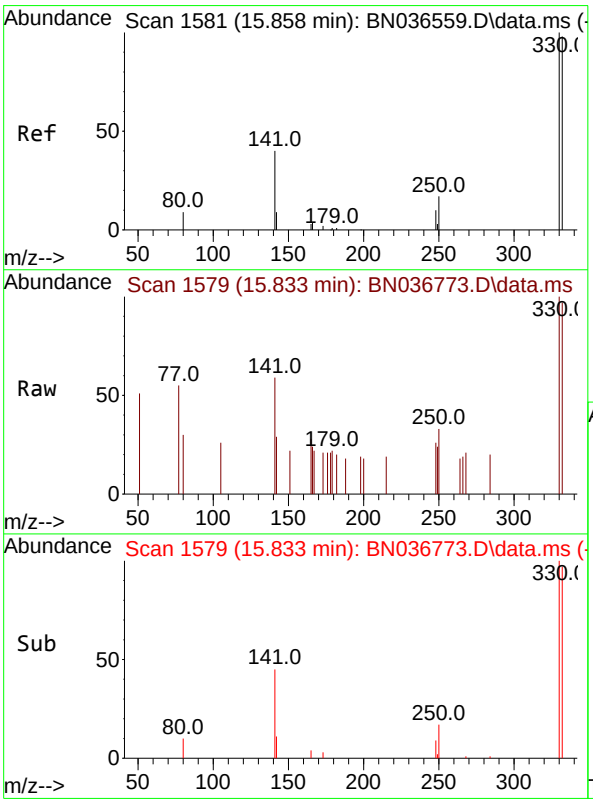
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2285

Ion	Ratio	Lower	Upper
164	100		
162	104.8	84.2	126.2
160	56.5	42.2	63.2

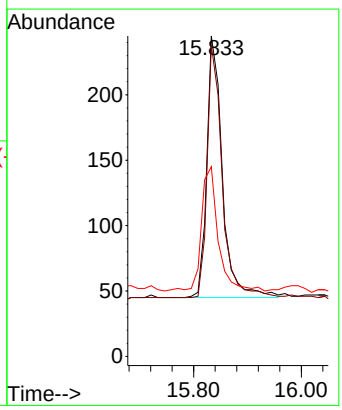


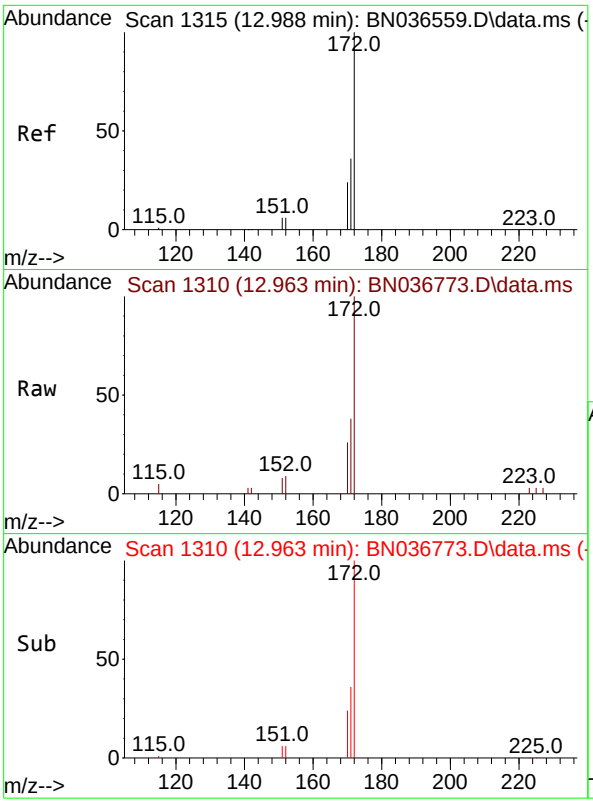


#14
2,4,6-Tribromophenol
Concen: 0.387 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:330 Resp: 401

Ion	Ratio	Lower	Upper
330	100		
332	93.0	75.2	112.8
141	51.1	43.4	65.2



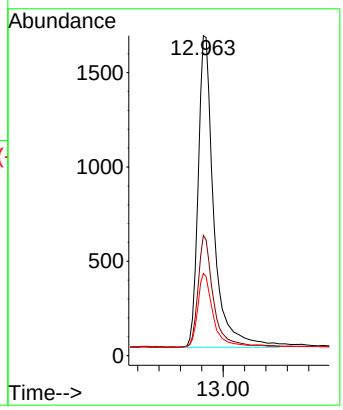


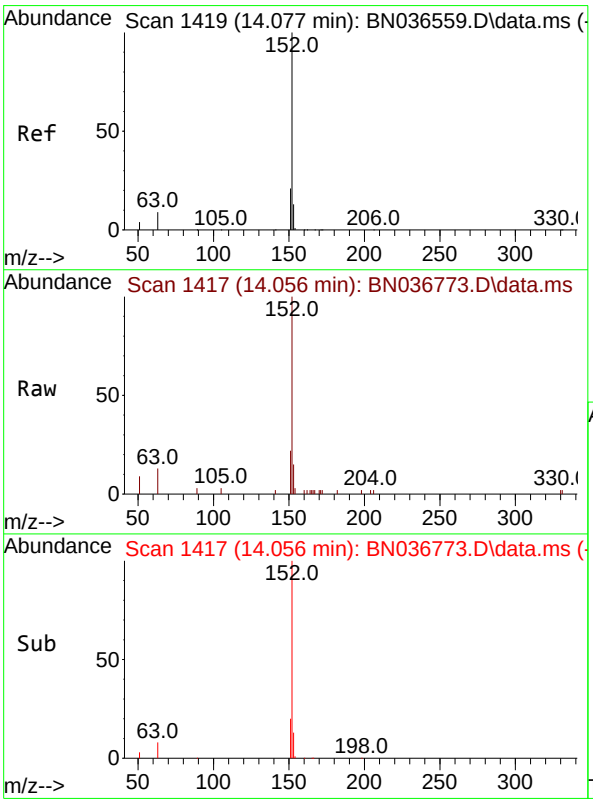
#15
2-Fluorobiphenyl
Concen: 0.332 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 4412

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.5	44.3
170	25.7	20.2	30.4

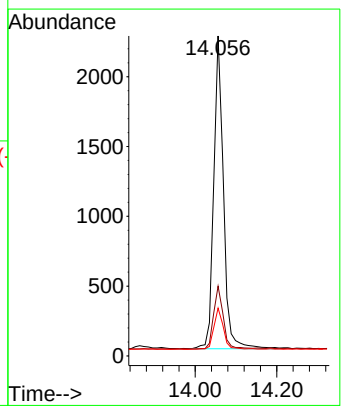


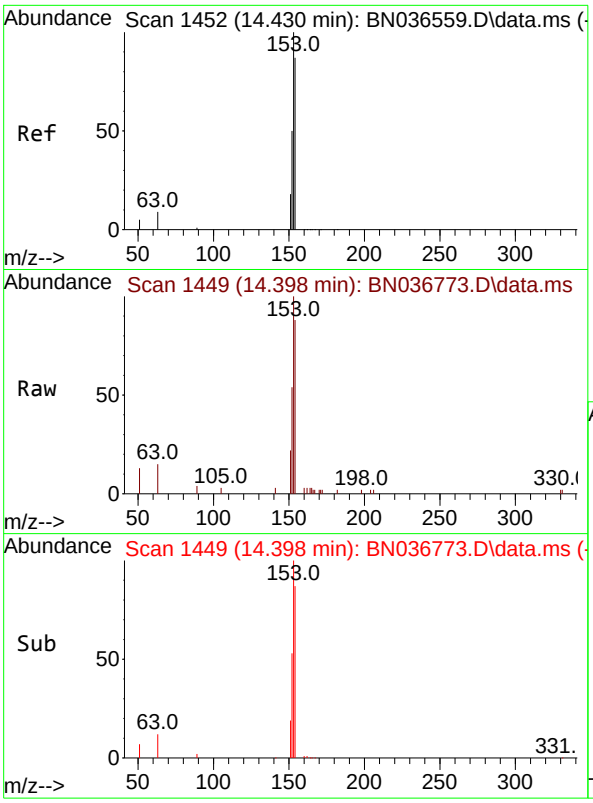


#16
Acenaphthylene
Concen: 0.344 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:152 Resp: 3706

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.4
153	13.1	10.6	15.8



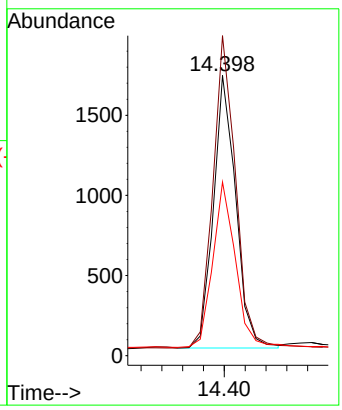


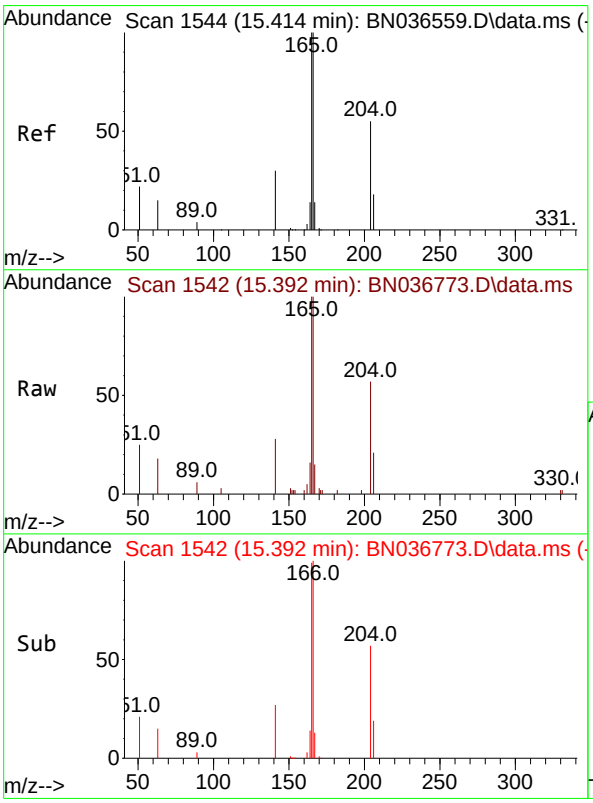
#17
Acenaphthene
Concen: 0.359 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 2532

Ion	Ratio	Lower	Upper
154	100		
153	116.8	94.1	141.1
152	62.0	49.8	74.6

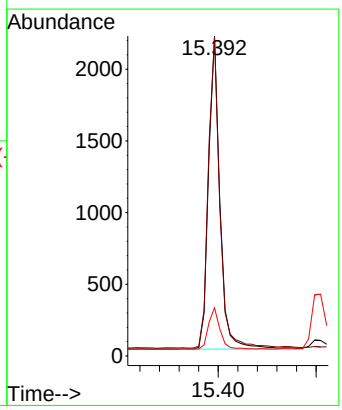


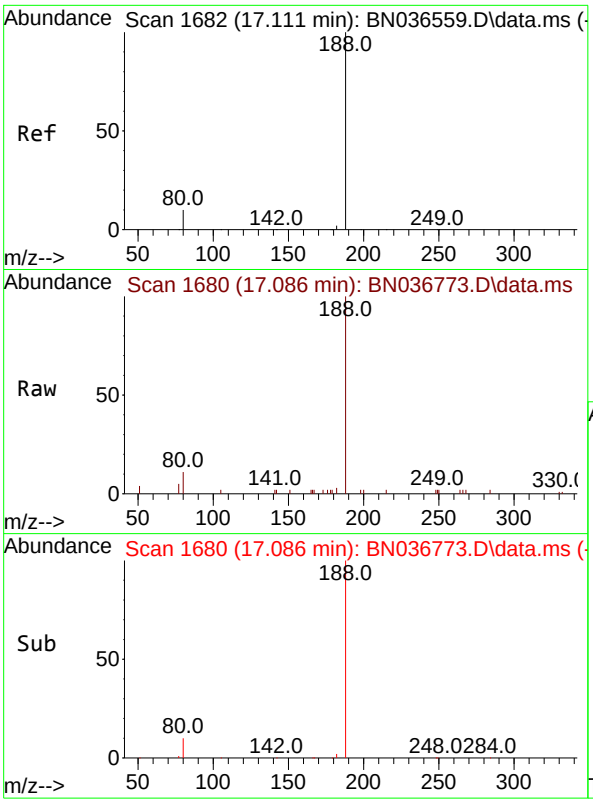


#18
Fluorene
Concen: 0.370 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:166 Resp: 3533

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



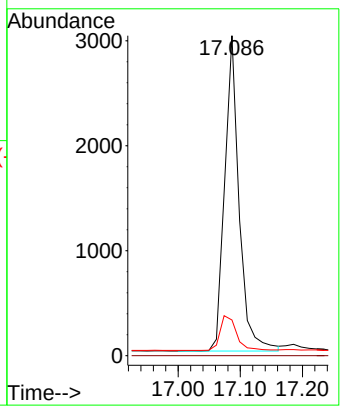


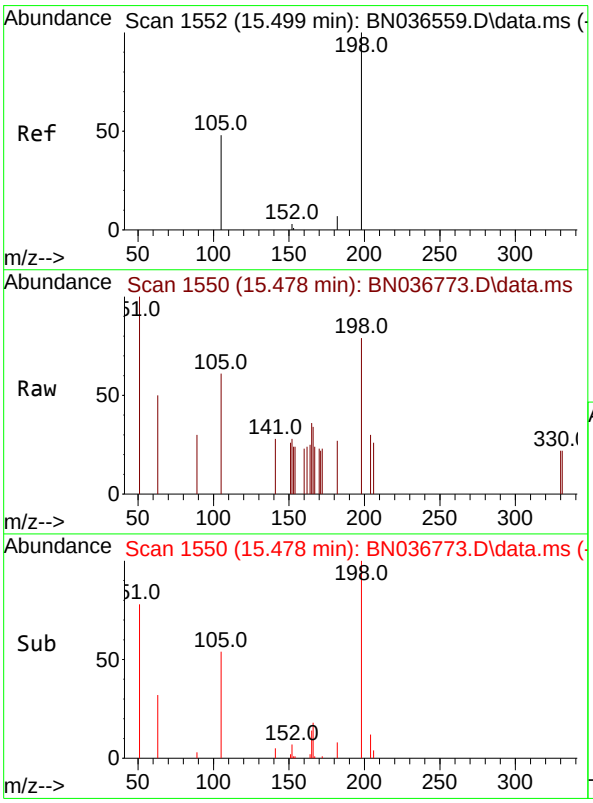
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 4820

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.2	8.8	13.2

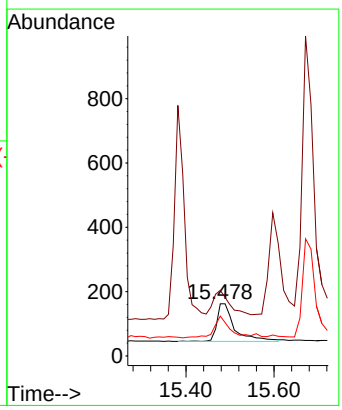


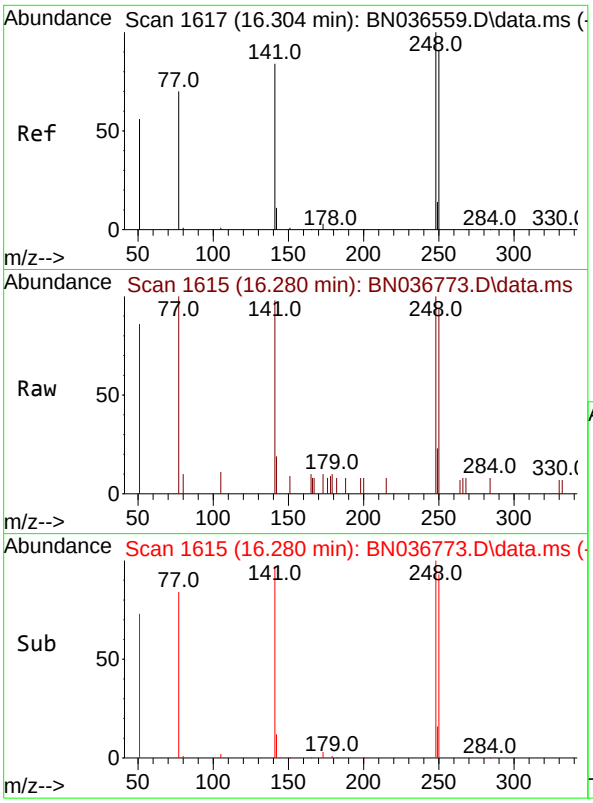


#20
4,6-Dinitro-2-methylphenol
Concen: 0.419 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:198 Resp: 336

Ion	Ratio	Lower	Upper
198	100		
51	125.9	107.9	161.9
105	76.5	56.2	84.2



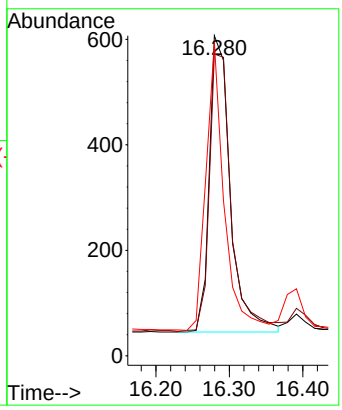


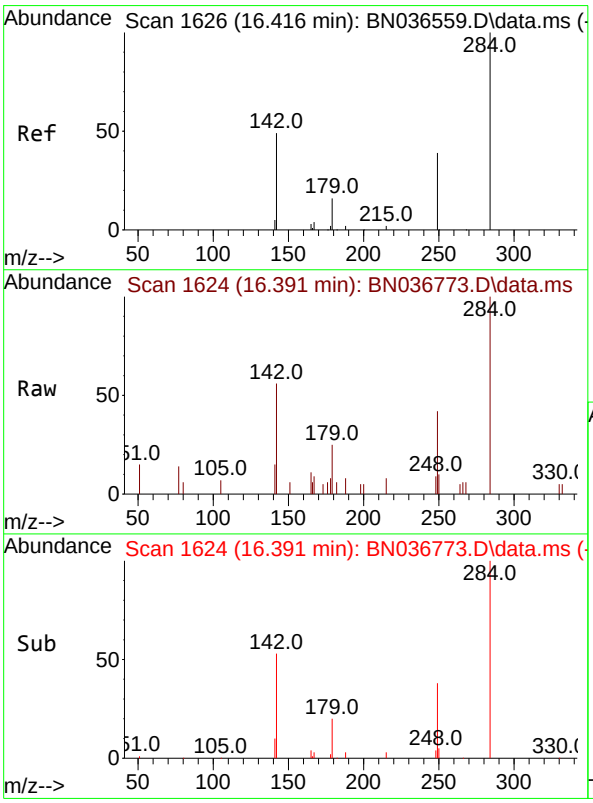
#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1116

Ion	Ratio	Lower	Upper
248	100		
250	94.2	73.0	109.6
141	98.0	68.6	103.0

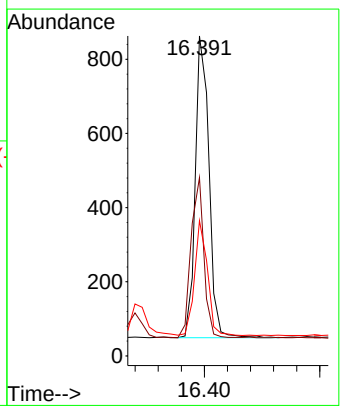


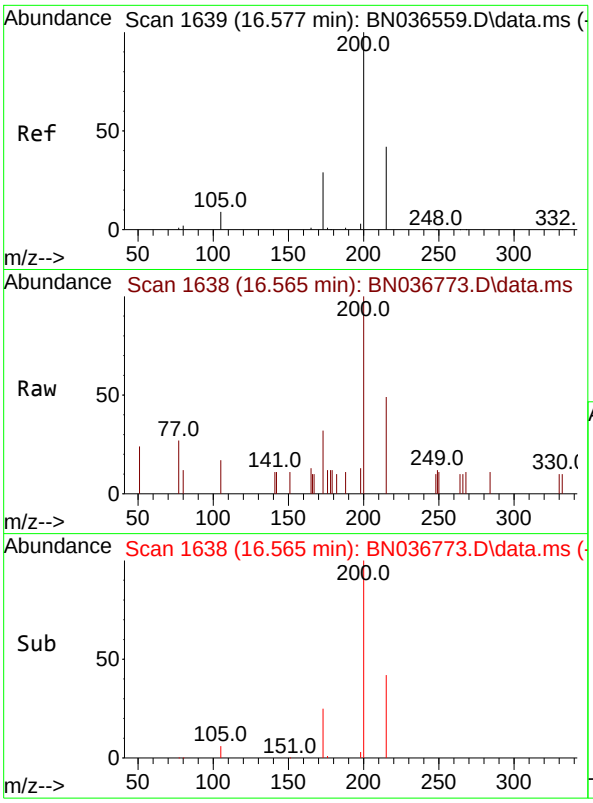


#22
Hexachlorobenzene
Concen: 0.369 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:284 Resp: 1346

Ion	Ratio	Lower	Upper
284	100		
142	49.6	37.0	55.4
249	36.0	28.1	42.1



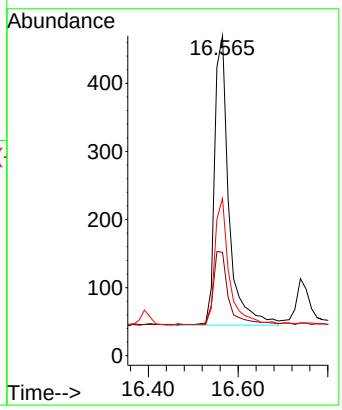


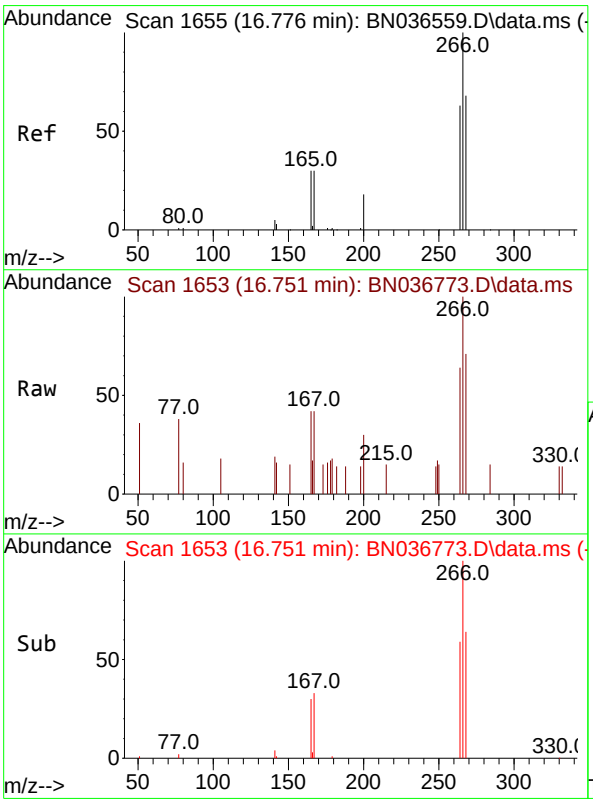
#23
Atrazine
Concen: 0.387 ng
RT: 16.565 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 936

Ion	Ratio	Lower	Upper
200	100		
173	32.3	27.3	40.9
215	49.1	36.8	55.2

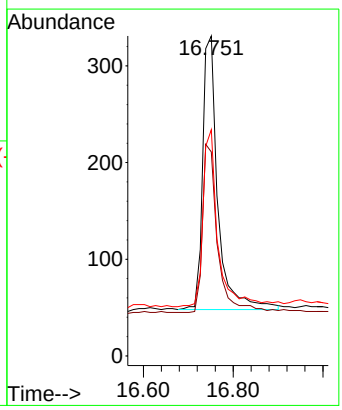


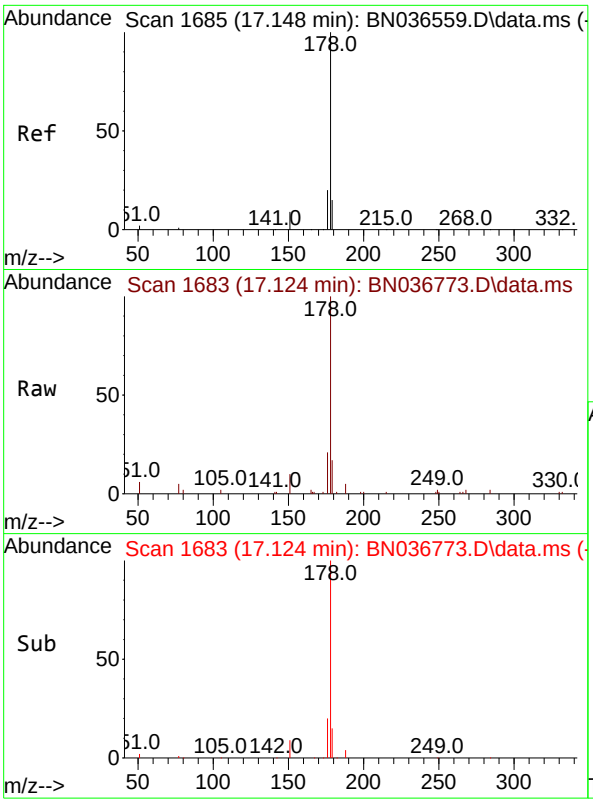


#24
Pentachlorophenol
Concen: 0.399 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:266 Resp: 664

Ion	Ratio	Lower	Upper
266	100		
264	61.1	49.6	74.4
268	63.6	50.9	76.3



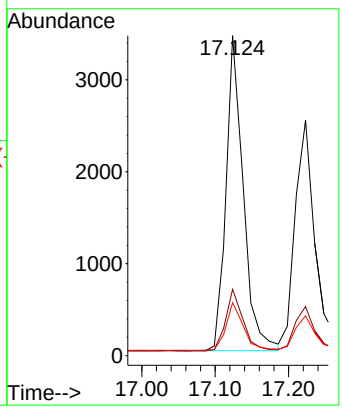


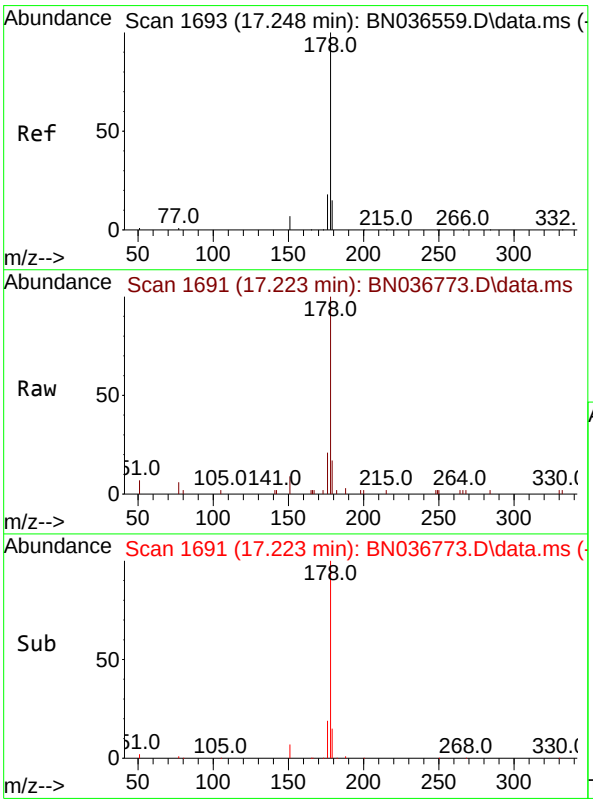
#25
Phenanthrene
Concen: 0.388 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 5603

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.5	12.2	18.4

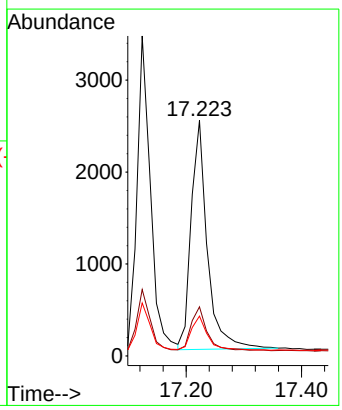


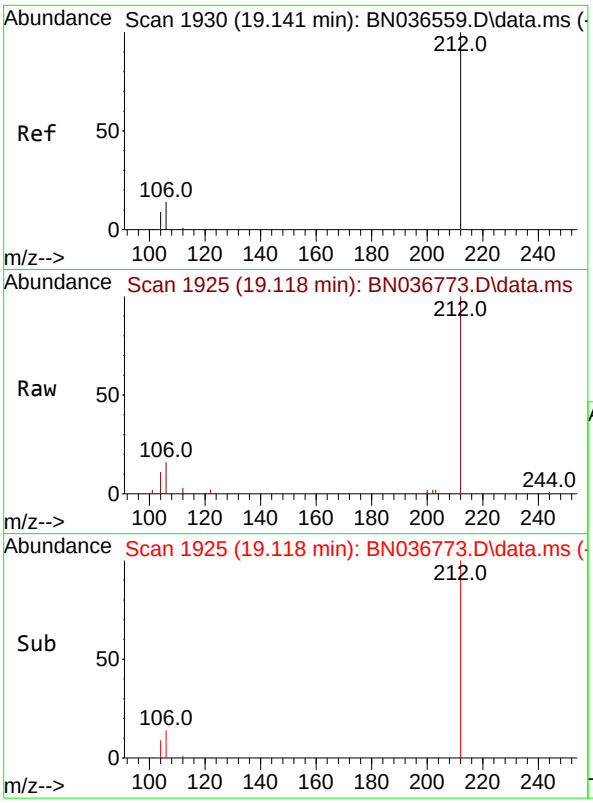


#26
Anthracene
Concen: 0.372 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:178 Resp: 4854

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



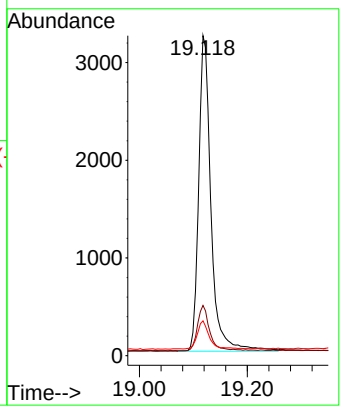


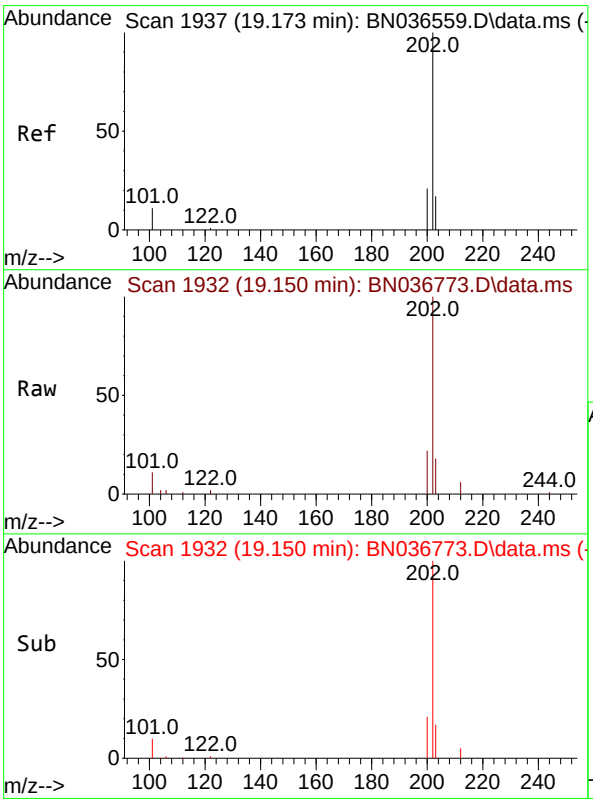
#27
Fluoranthene-d10
Concen: 0.413 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 5100

Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.8	17.6
104	8.6	7.3	10.9

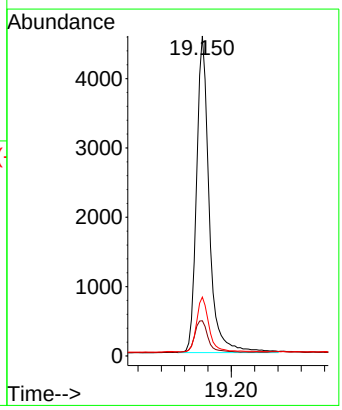


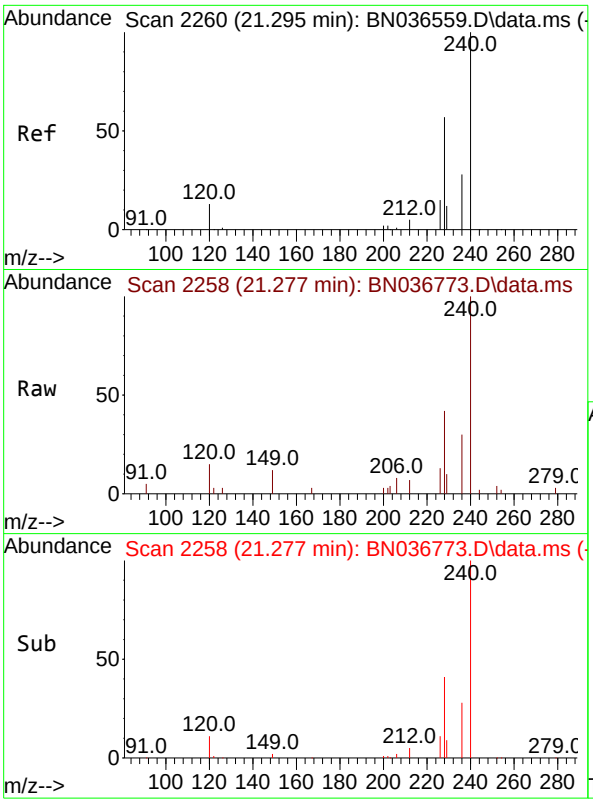


#28
Fluoranthene
Concen: 0.422 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:202 Resp: 6857

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	17.2	13.5	20.3



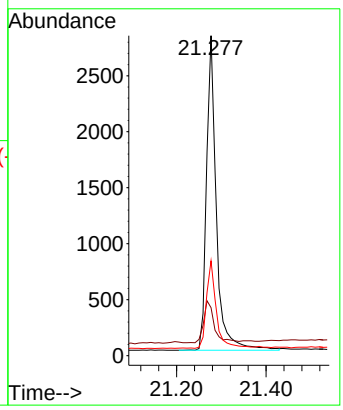


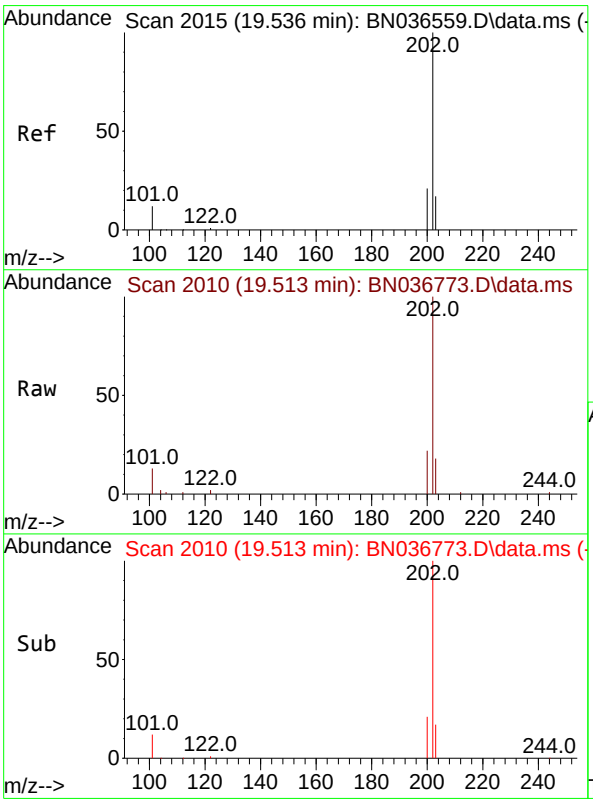
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4311

Ion	Ratio	Lower	Upper
240	100		
120	15.0	14.6	22.0
236	29.6	24.1	36.1

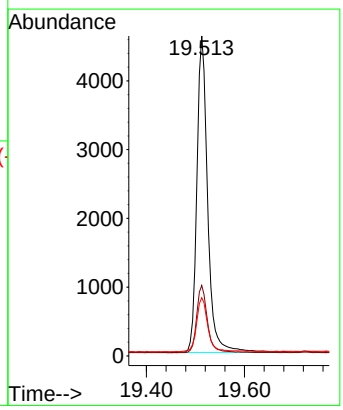


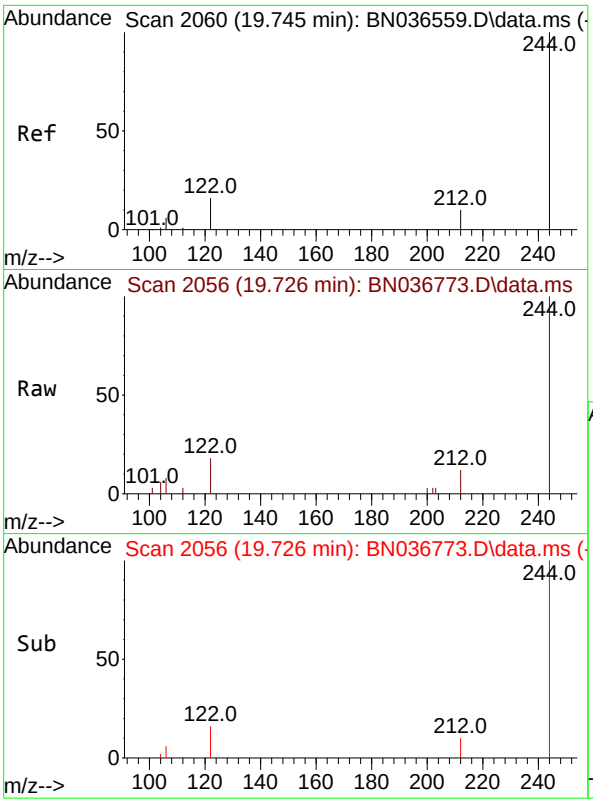


#30
Pyrene
Concen: 0.333 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:202 Resp: 7023

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.8	14.1	21.1



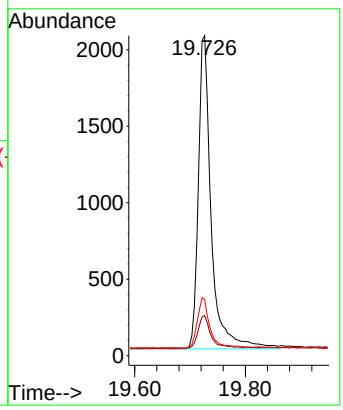


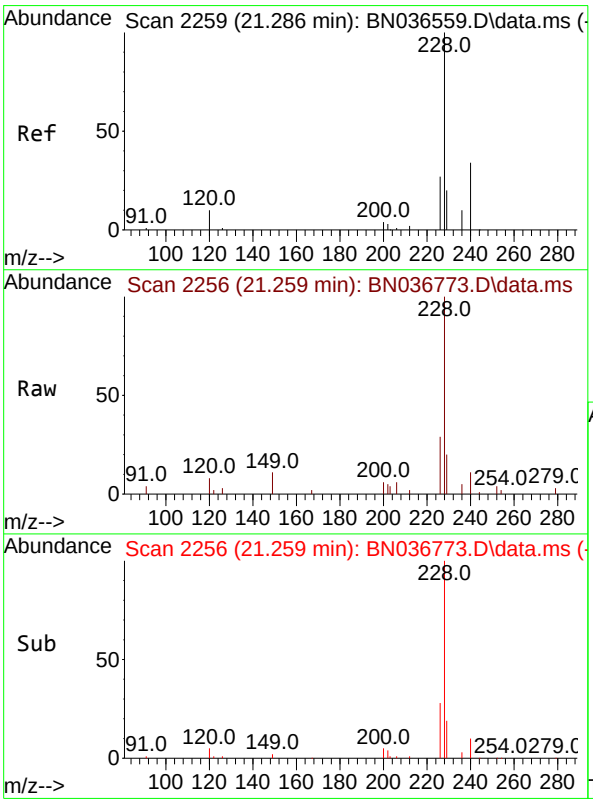
#31
Terphenyl-d14
Concen: 0.321 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3318

Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.6	14.4
122	17.6	13.9	20.9

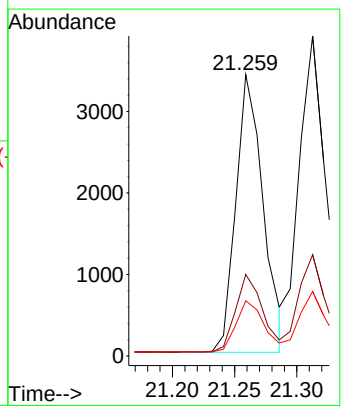


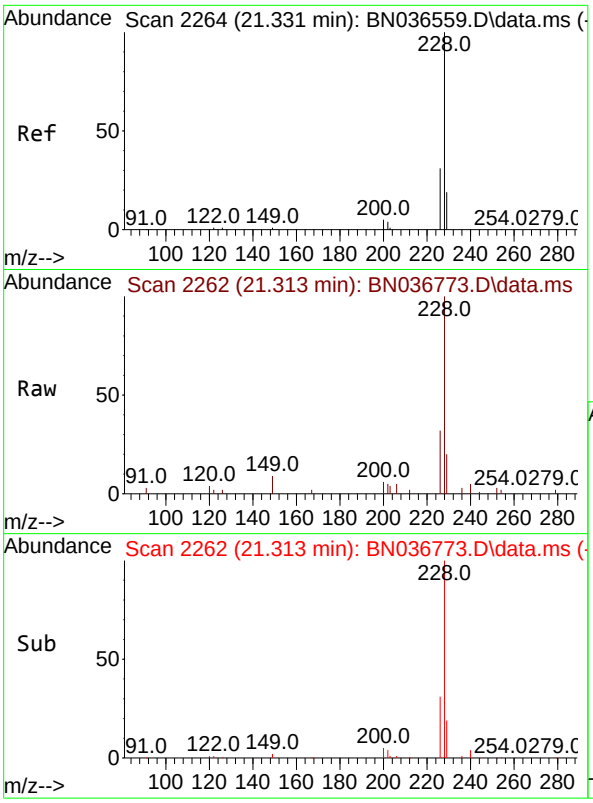


#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:228 Resp: 5192

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	19.6	16.6	25.0



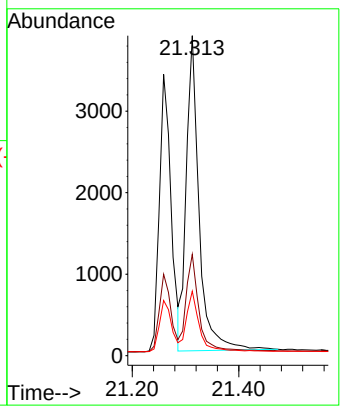


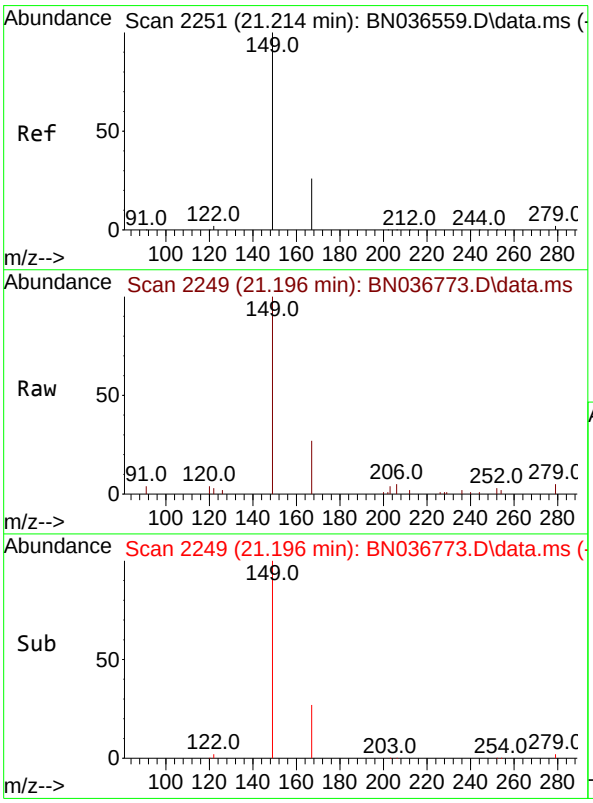
#33
Chrysene
Concen: 0.393 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6439

Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.3	37.9
229	20.2	15.8	23.8

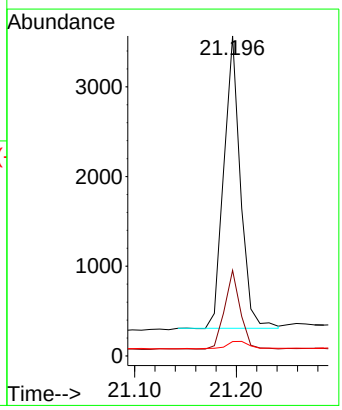


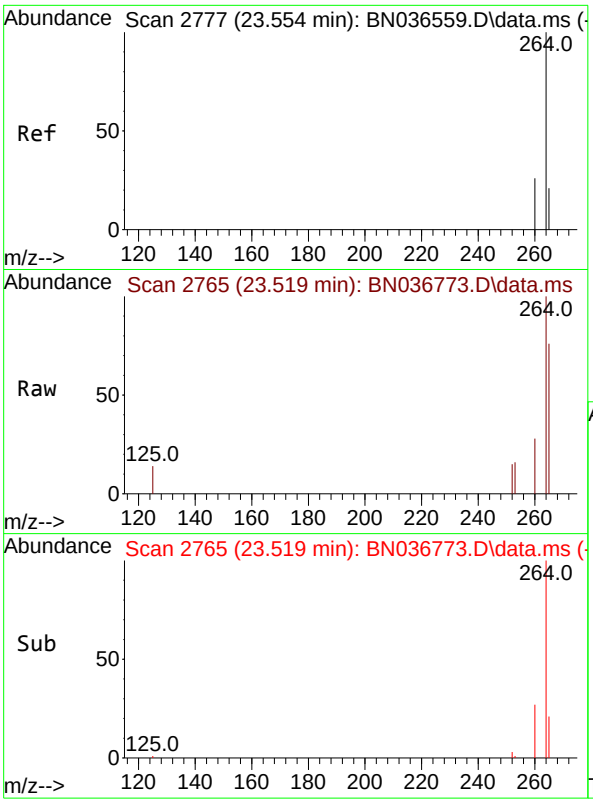


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.345 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:149 Resp: 3679

Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.7	31.1
279	3.5	3.6	5.4#



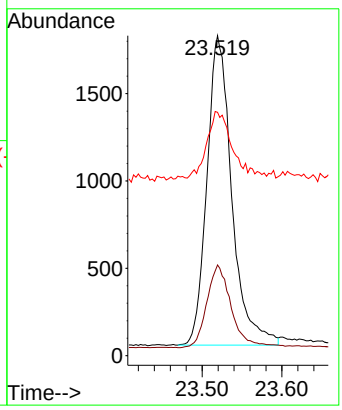


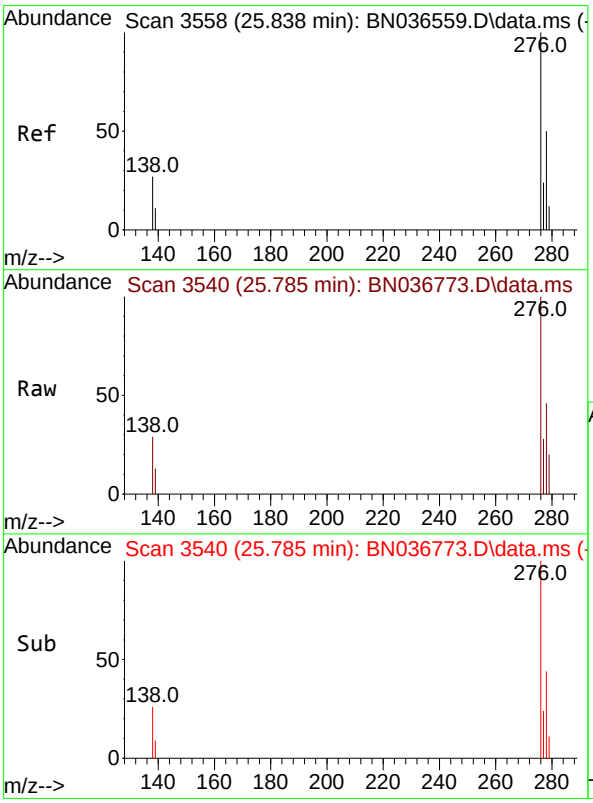
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3840

Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.6	33.8
265	76.0	88.1	132.1#

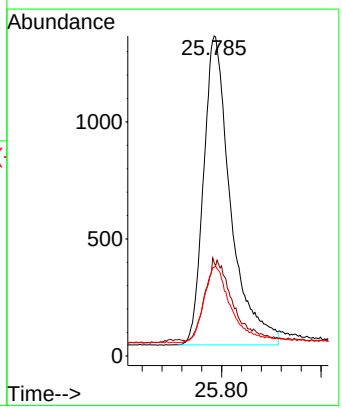


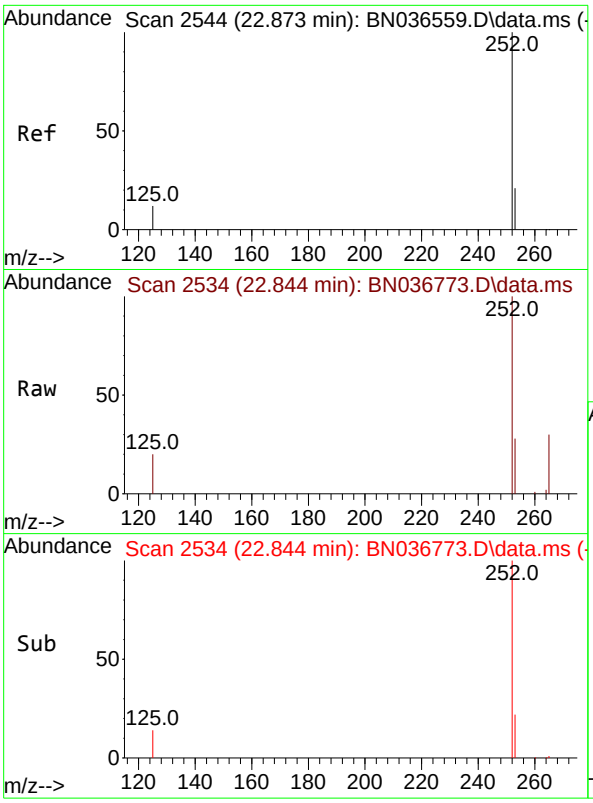


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.053 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:276 Resp: 4989

Ion	Ratio	Lower	Upper
276	100		
138	10.8	23.4	35.2#
277	24.7	20.0	30.0



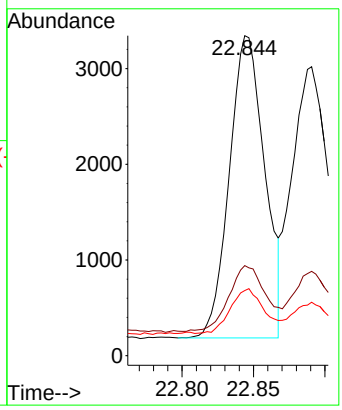


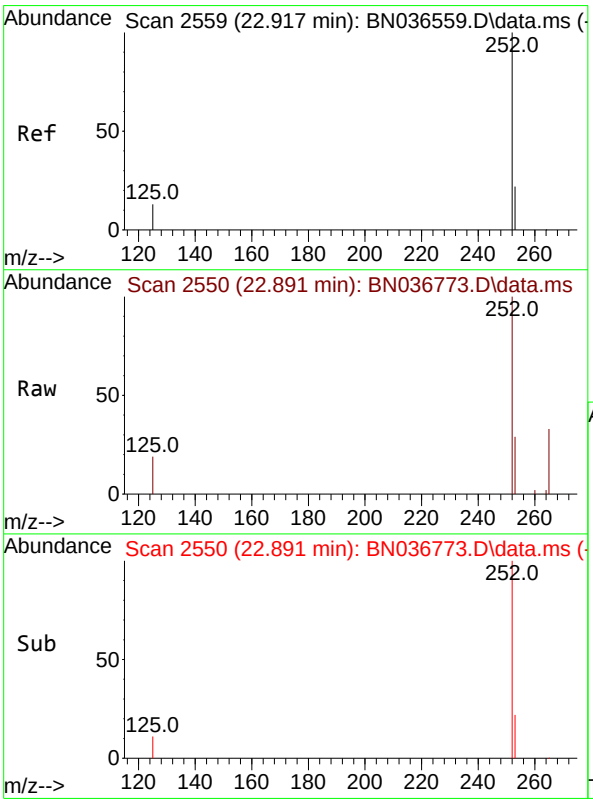
#37
Benzo(b)fluoranthene
Concen: 0.388 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5429

Ion	Ratio	Lower	Upper
252	100		
253	28.1	23.9	35.9
125	20.3	17.4	26.2

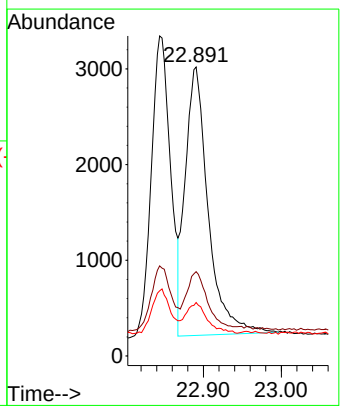


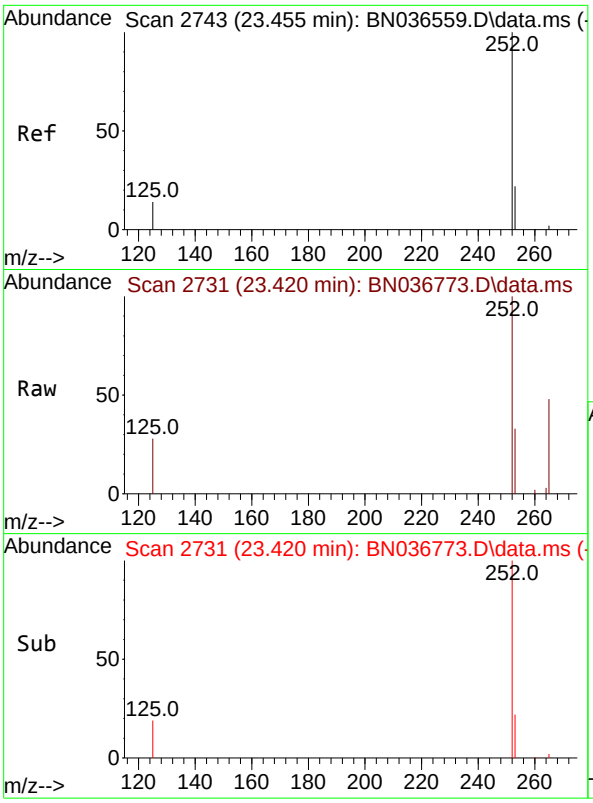


#38
Benzo(k)fluoranthene
Concen: 0.391 ng
RT: 22.891 min Scan# 2550
Delta R.T. -0.026 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:252 Resp: 5732

Ion	Ratio	Lower	Upper
252	100		
253	29.2	24.6	36.8
125	18.5	17.8	26.8



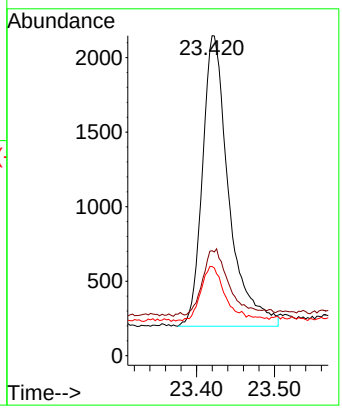


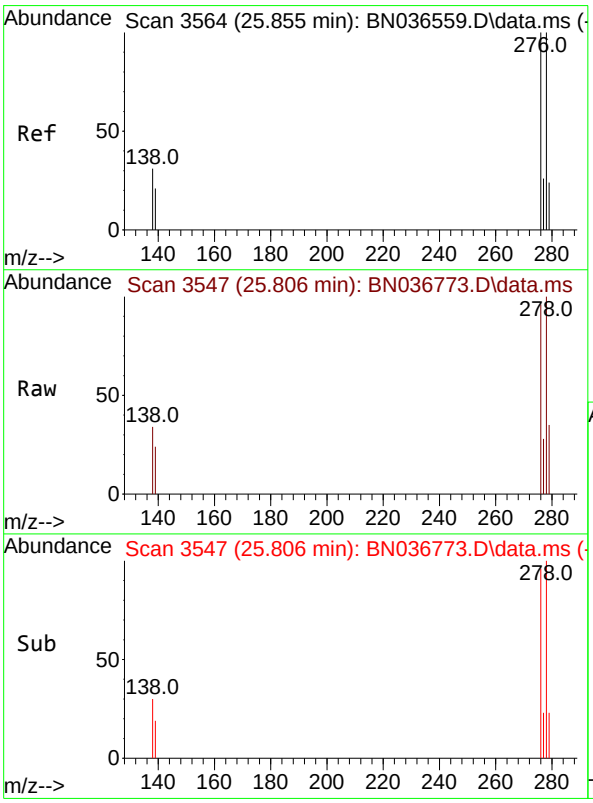
#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4579

Ion	Ratio	Lower	Upper
252	100		
253	32.8	27.8	41.8
125	27.9	22.7	34.1

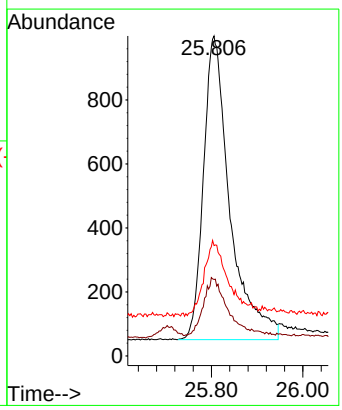


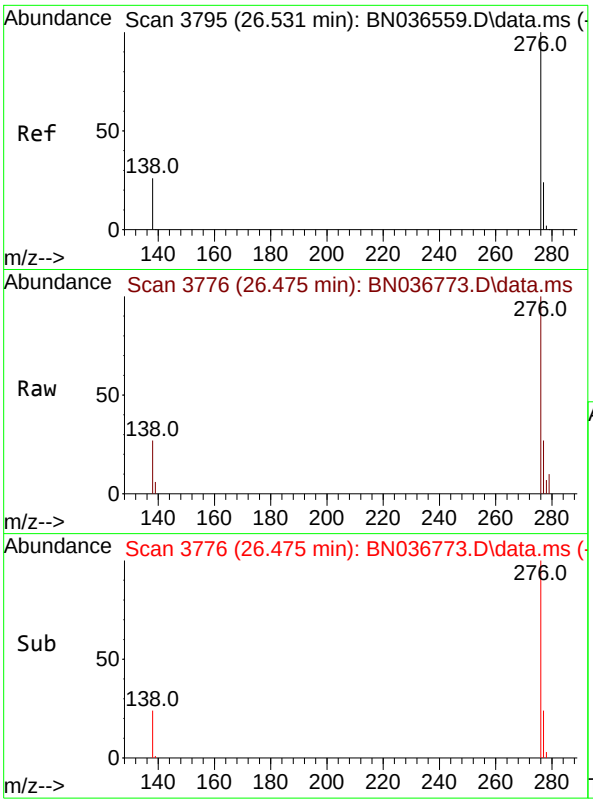


#40
Dibenzo(a,h)anthracene
Concen: 0.353 ng
RT: 25.806 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Tgt Ion:278 Resp: 3809

Ion	Ratio	Lower	Upper
278	100		
139	23.9	20.8	31.2
279	34.5	28.8	43.2



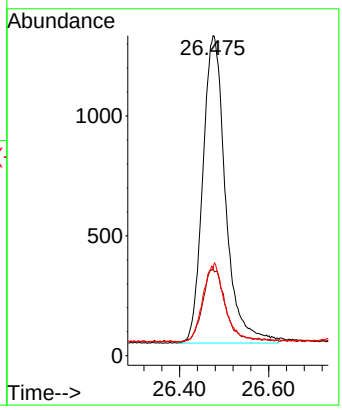


#41
Benzo(g,h,i)perylene
Concen: 0.368 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.056 min
Lab File: BN036773.D
Acq: 28 Mar 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4542

Ion	Ratio	Lower	Upper
276	100		
277	27.2	22.2	33.4
138	27.3	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036773.D
Acq On : 28 Mar 2025 15:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 15:45:44 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	62	-0.03
2		1,4-Dioxane	0.444	0.447	-0.7	56	-0.01
3		n-Nitrosodimethylamine	0.898	0.875	2.6	58	-0.01
4	S	2-Fluorophenol	0.932	0.827	11.3	52	-0.02
5	S	Phenol-d6	1.152	0.964	16.3	53	-0.03
6		bis(2-Chloroethyl)ether	1.190	1.042	12.4	55	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	69	-0.02
8	S	Nitrobenzene-d5	0.435	0.365	16.1	61	-0.02
9		Naphthalene	1.177	1.054	10.5	60	-0.03
10		Hexachlorobutadiene	0.277	0.261	5.8	61	-0.03
11	SURR	2-Methylnaphthalene-d10	0.595	0.548	7.9	62	-0.03
12		2-Methylnaphthalene	0.749	0.698	6.8	63	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	76	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.175	3.8	71	-0.02
15	S	2-Fluorobiphenyl	2.327	1.931	17.0	61	-0.03
16		Acenaphthylene	1.888	1.622	14.1	63	-0.02
17		Acenaphthene	1.236	1.108	10.4	65	-0.03
18		Fluorene	1.672	1.546	7.5	66	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	80	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	73	-0.02
21		4-Bromophenyl-phenylether	0.251	0.232	7.6	68	-0.02
22		Hexachlorobenzene	0.303	0.279	7.9	67	-0.02
23		Atrazine	0.201	0.194	3.5	73	-0.01
24		Pentachlorophenol	0.138	0.138	0.0	81	-0.02
25		Phenanthrene	1.200	1.162	3.2	72	-0.02
26		Anthracene	1.083	1.007	7.0	70	-0.02
27	SURR	Fluoranthene-d10	1.025	1.058	-3.2	76	-0.02
28		Fluoranthene	1.348	1.423	-5.6	79	-0.02
29	I	Chrysene-d12	1.000	1.000	0.0	105	-0.02
30		Pyrene	1.956	1.629	16.7	80	-0.02
31	S	Terphenyl-d14	0.958	0.770	19.6	79	-0.02
32		Benzo(a)anthracene	1.391	1.204	13.4	88	-0.03
33		Chrysene	1.520	1.494	1.7	97	-0.02
34		Bis(2-ethylhexyl)phthalate	0.990	0.853	13.8	86	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	109	-0.04
36		Indeno(1,2,3-cd)pyrene	1.444	1.299	10.0	91	-0.05
37		Benzo(b)fluoranthene	1.456	1.414	2.9	99	-0.03
38		Benzo(k)fluoranthene	1.527	1.493	2.2	100	-0.03
39	C	Benzo(a)pyrene	1.226	1.192	2.8	99	-0.04
40		Dibenzo(a,h)anthracene	1.124	0.992	11.7	93	-0.05
41		Benzo(g,h,i)perylene	1.286	1.183	8.0	93	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036773.D
Acq On : 28 Mar 2025 15:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 15:45:44 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	62	-0.03
2		1,4-Dioxane	0.400	0.403	-0.8	56	-0.01
3		n-Nitrosodimethylamine	0.400	0.390	2.5	58	-0.01
4	S	2-Fluorophenol	0.400	0.355	11.3	52	-0.02
5	S	Phenol-d6	0.400	0.335	16.3	53	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.350	12.5	55	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	69	-0.02
8	S	Nitrobenzene-d5	0.400	0.336	16.0	61	-0.02
9		Naphthalene	0.400	0.358	10.5	60	-0.03
10		Hexachlorobutadiene	0.400	0.376	6.0	61	-0.03
11	SURR	2-Methylnaphthalene-d10	0.400	0.369	7.8	62	-0.03
12		2-Methylnaphthalene	0.400	0.373	6.8	63	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	76	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.387	3.3	71	-0.02
15	S	2-Fluorobiphenyl	0.400	0.332	17.0	61	-0.03
16		Acenaphthylene	0.400	0.344	14.0	63	-0.02
17		Acenaphthene	0.400	0.359	10.3	65	-0.03
18		Fluorene	0.400	0.370	7.5	66	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	80	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.419	-4.7	73	-0.02
21		4-Bromophenyl-phenylether	0.400	0.370	7.5	68	-0.02
22		Hexachlorobenzene	0.400	0.369	7.8	67	-0.02
23		Atrazine	0.400	0.387	3.3	73	-0.01
24		Pentachlorophenol	0.400	0.399	0.3	81	-0.02
25		Phenanthrene	0.400	0.388	3.0	72	-0.02
26		Anthracene	0.400	0.372	7.0	70	-0.02
27	SURR	Fluoranthene-d10	0.400	0.413	-3.2	76	-0.02
28		Fluoranthene	0.400	0.422	-5.5	79	-0.02
29	I	Chrysene-d12	0.400	0.400	0.0	105	-0.02
30		Pyrene	0.400	0.333	16.8	80	-0.02
31	S	Terphenyl-d14	0.400	0.321	19.8	79	-0.02
32		Benzo(a)anthracene	0.400	0.346	13.5	88	-0.03
33		Chrysene	0.400	0.393	1.8	97	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.345	13.8	86	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	109	-0.04
36		Indeno(1,2,3-cd)pyrene	0.400	0.360	10.0	91	-0.05
37		Benzo(b)fluoranthene	0.400	0.388	3.0	99	-0.03
38		Benzo(k)fluoranthene	0.400	0.391	2.3	100	-0.03
39	C	Benzo(a)pyrene	0.400	0.389	2.8	99	-0.04
40		Dibenzo(a,h)anthracene	0.400	0.353	11.8	93	-0.05
41		Benzo(g,h,i)perylene	0.400	0.368	8.0	93	-0.06

(#) = 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: AECO15

Lab Code: CHEM Case No.: Q1608 SAS No.: Q1608 SDG No.: Q1608

Instrument ID: BNA_N Calibration Date/Time: 03/29/2025 00:50

Lab File ID: BN036789.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC 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	0.529		-11.1	50.0
Fluoranthene-d10	1.025	1.034		0.9	50.0
2-Fluorophenol	0.932	0.840		-9.9	50.0
Phenol-d6	1.152	0.971		-15.7	50.0
Nitrobenzene-d5	0.435	0.371		-14.7	50.0
2-Fluorobiphenyl	2.327	1.920		-17.5	50.0
2,4,6-Tribromophenol	0.182	0.178		-2.2	50.0
Terphenyl-d14	0.958	0.781		-18.5	50.0
1,4-Dioxane	0.444	0.434		-2.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036789.D
Acq On : 29 Mar 2025 00:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 29 01:57:50 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 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1603	0.400	ng		-0.03
7) Naphthalene-d8	10.487	136	3990	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	2534	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	5432	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	4742	0.400	ng		#-0.02
35) Perylene-d12	23.516	264	4392	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1346	0.360	ng		-0.02
5) Phenol-d6	6.872	99	1556	0.337	ng		-0.03
8) Nitrobenzene-d5	8.843	82	1480	0.341	ng		-0.03
11) 2-Methylnaphthalene-d10	12.080	152	2109	0.355	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	450	0.391	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	4866	0.330	ng		-0.03
27) Fluoranthene-d10	19.118	212	5616	0.403	ng		-0.02
31) Terphenyl-d14	19.722	244	3703	0.326	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	695	0.391	ng		98
3) n-Nitrosodimethylamine	3.543	42	1396	0.388	ng		93
6) bis(2-Chloroethyl)ether	7.125	93	1599	0.335	ng		97
9) Naphthalene	10.530	128	4134	0.352	ng		99
10) Hexachlorobutadiene	10.818	225	1026	0.371	ng	#	97
12) 2-Methylnaphthalene	12.156	142	2744	0.367	ng		98
16) Acenaphthylene	14.056	152	4217	0.353	ng		98
17) Acenaphthene	14.398	154	2811	0.359	ng		99
18) Fluorene	15.392	166	3945	0.373	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	419	0.448	ng		84
21) 4-Bromophenyl-phenylether	16.280	248	1262	0.371	ng		96
22) Hexachlorobenzene	16.391	284	1487	0.362	ng		95
23) Atrazine	16.553	200	1073	0.393	ng		96
24) Pentachlorophenol	16.739	266	722	0.385	ng		98
25) Phenanthrene	17.124	178	6223	0.382	ng		99
26) Anthracene	17.223	178	5484	0.373	ng		99
28) Fluoranthene	19.146	202	7639	0.417	ng		98
30) Pyrene	19.513	202	7743	0.334	ng		100
32) Benzo(a)anthracene	21.259	228	5885	0.357	ng		99
33) Chrysene	21.304	228	6911	0.384	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3944	0.336	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5807	0.366	ng		94
37) Benzo(b)fluoranthene	22.841	252	6060	0.379	ng		96
38) Benzo(k)fluoranthene	22.882	252	6533m	0.390	ng		
39) Benzo(a)pyrene	23.417	252	5189	0.386	ng		96
40) Dibenzo(a,h)anthracene	25.797	278	4700m	0.381	ng		
41) Benzo(g,h,i)perylene	26.469	276	5171	0.366	ng		96

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

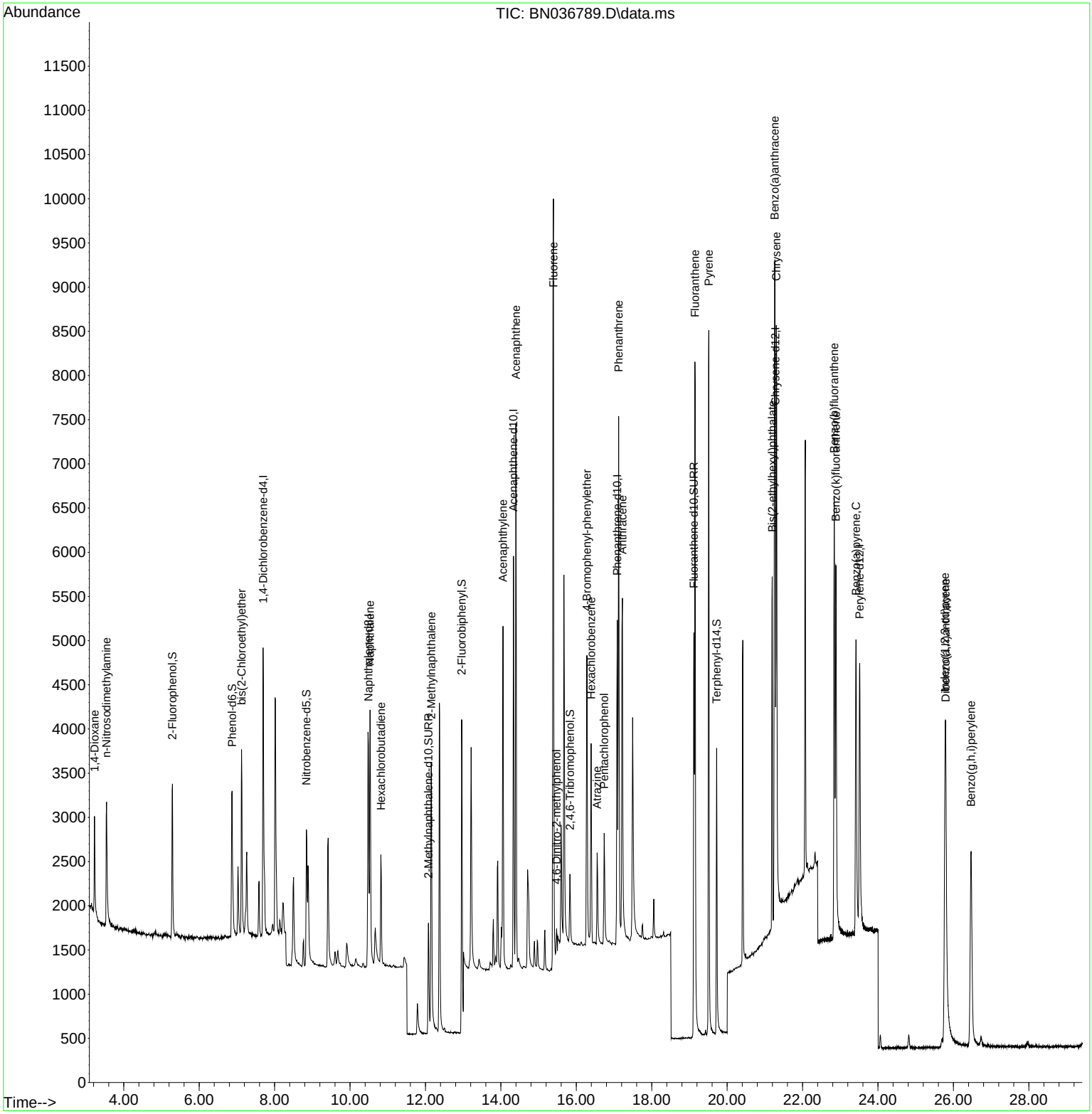
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Acq On : 29 Mar 2025 00:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

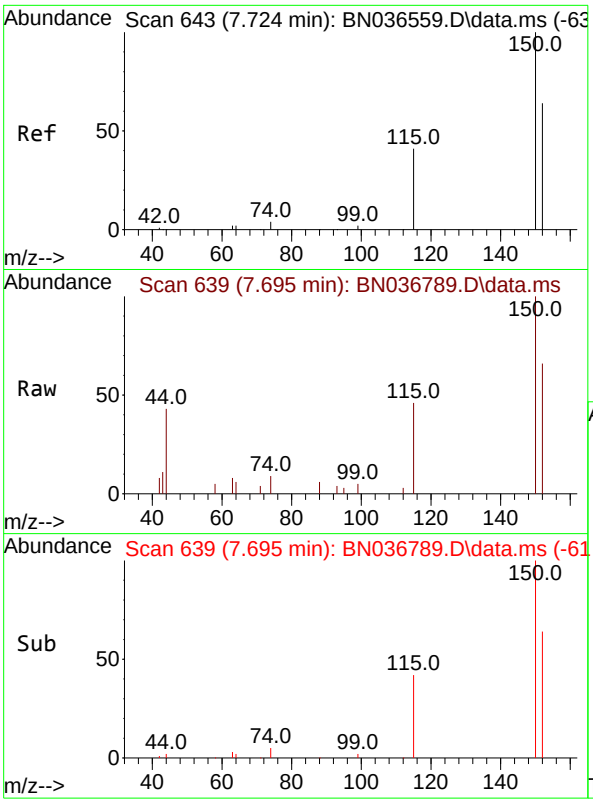
Quant Time: Mar 29 01:57:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

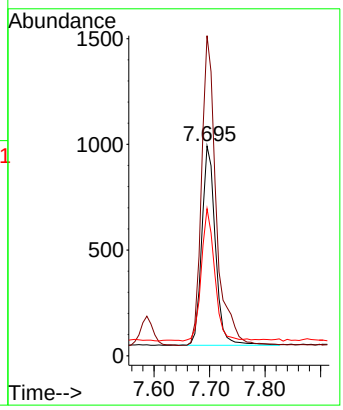




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:152 Resp: 160

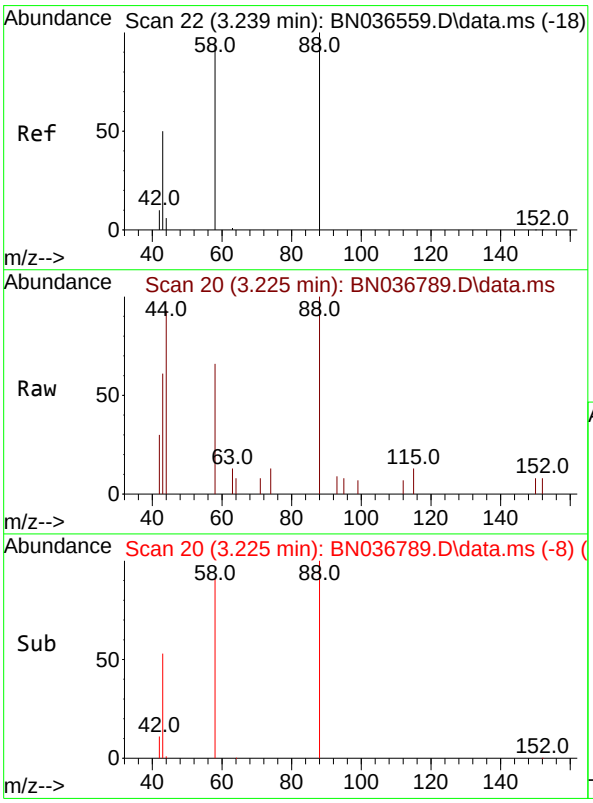
Ion	Ratio	Lower	Upper
152	100		
150	152.6	123.7	185.5
115	70.2	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

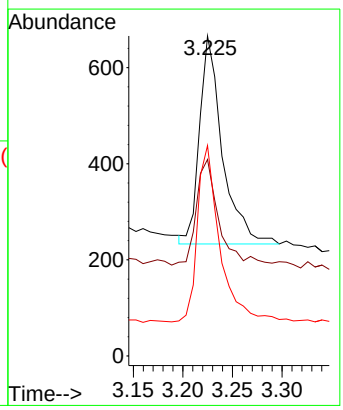
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

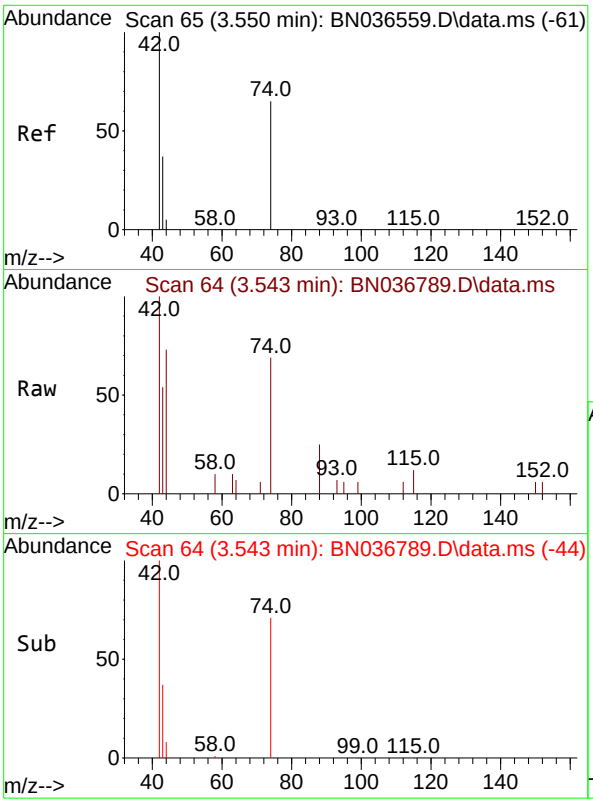


#2
1,4-Dioxane
Concen: 0.391 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion: 88 Resp: 695

Ion	Ratio	Lower	Upper
88	100		
43	49.8	37.8	56.8
58	83.0	67.4	101.2

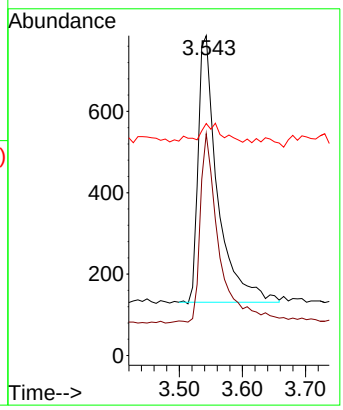




#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion: 42 Resp: 139

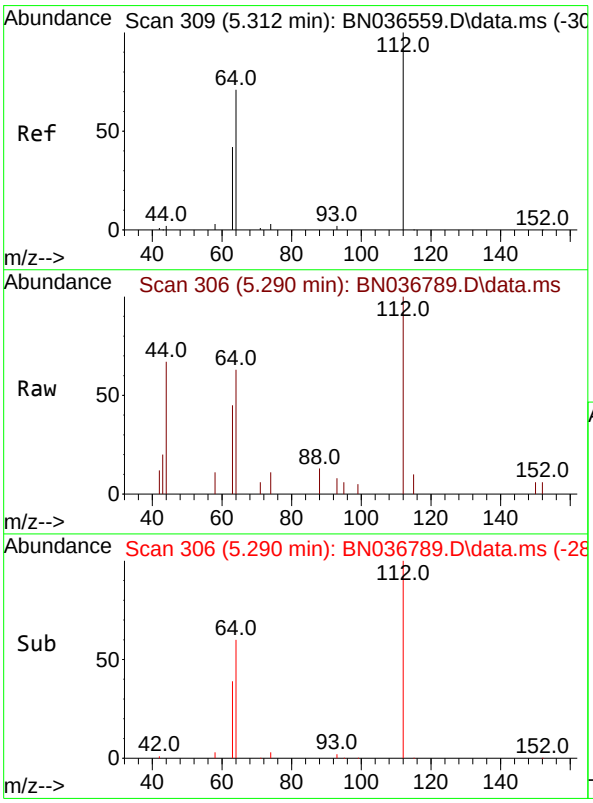
Ion	Ratio	Lower	Upper
42	100		
74	69.6	60.6	90.8
44	6.9	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

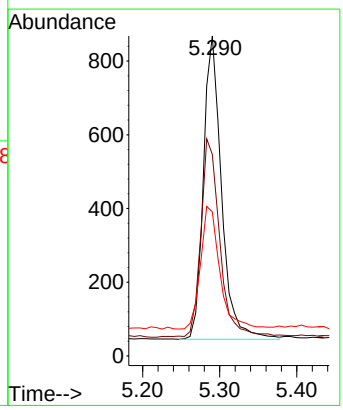
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

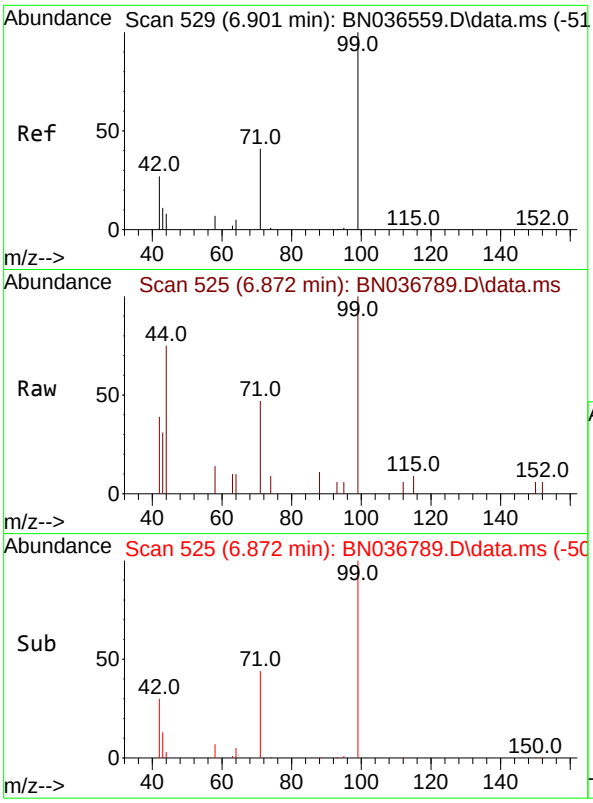


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:112 Resp: 1346

Ion	Ratio	Lower	Upper
112	100		
64	68.6	53.1	79.7
63	43.5	31.8	47.8

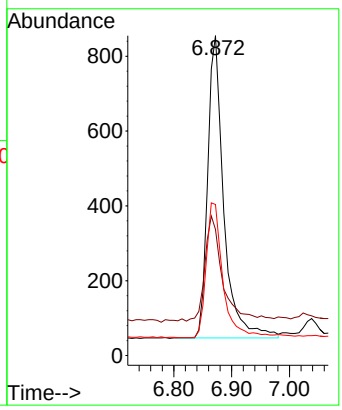




#5
Phenol-d6
Concen: 0.337 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion: 99 Resp: 155

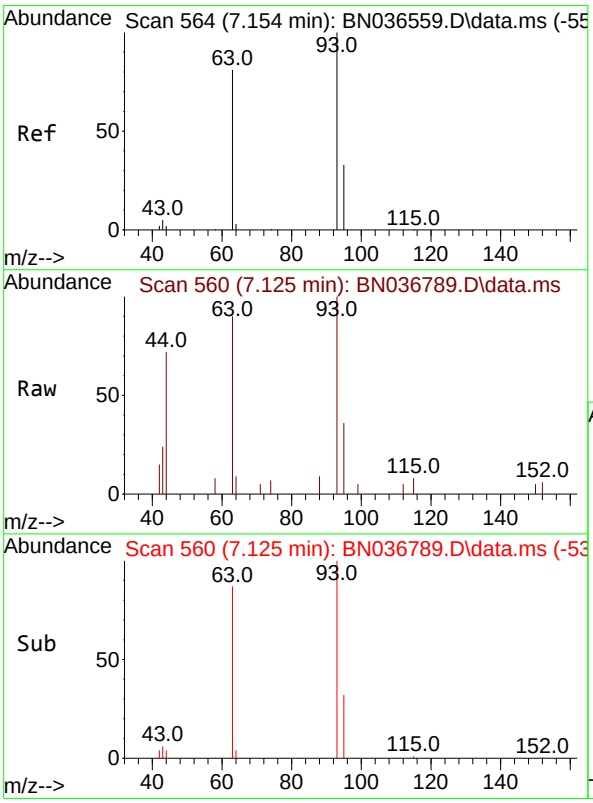
Ion	Ratio	Lower	Upper
99	100		
42	38.9	26.5	39.7
71	46.6	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

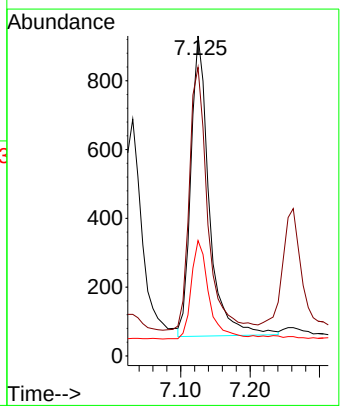
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

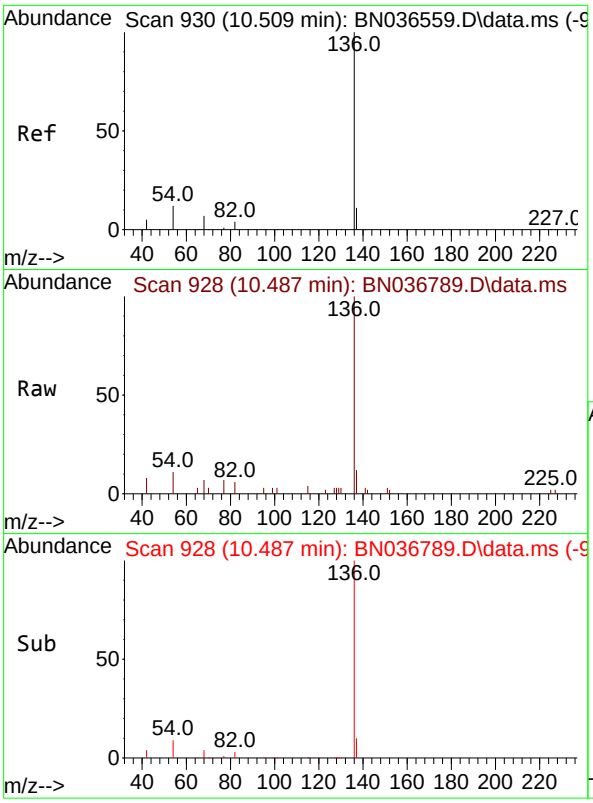


#6
bis(2-Chloroethyl)ether
Concen: 0.335 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion: 93 Resp: 1599

Ion	Ratio	Lower	Upper
93	100		
63	87.9	67.7	101.5
95	31.6	25.6	38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

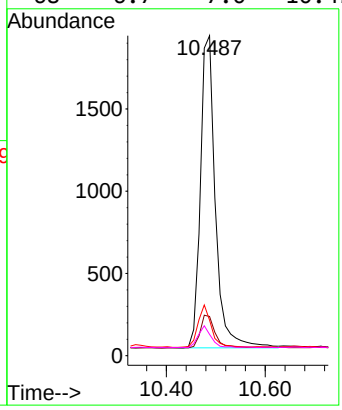
Tgt Ion:136 Resp: 399

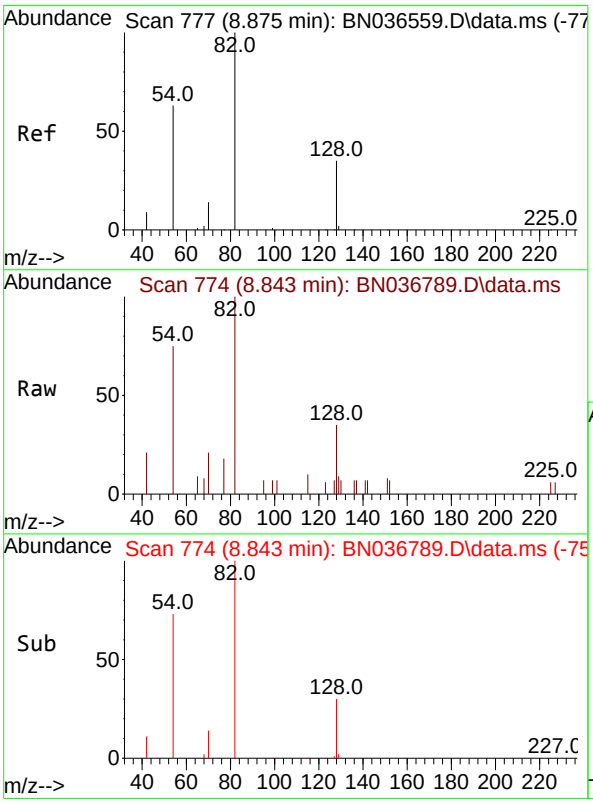
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.3	15.5
54	11.1	11.5	17.3#
68	6.7	7.0	10.4#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

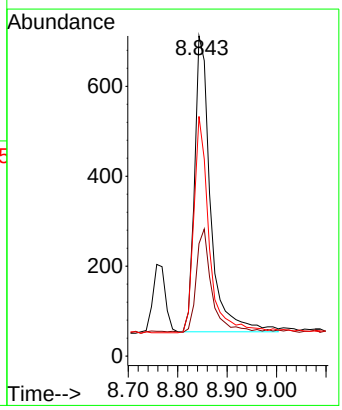


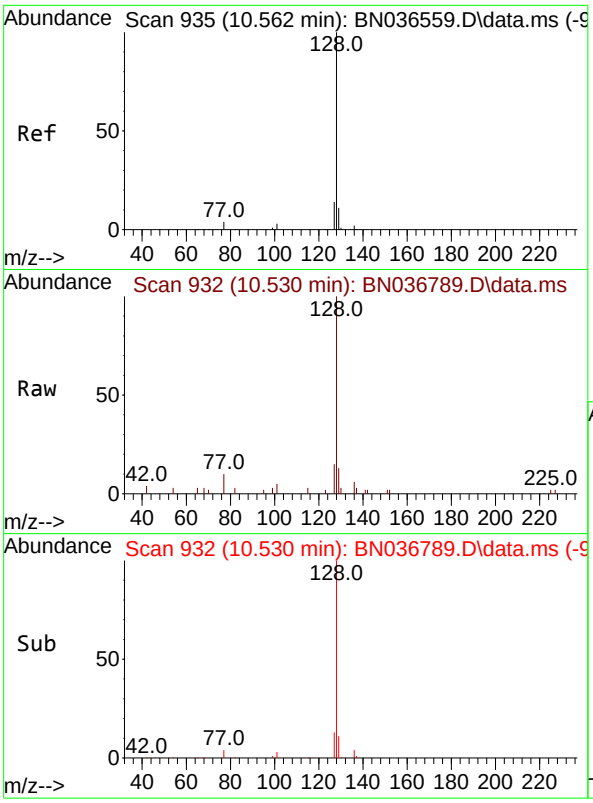


#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion: 82 Resp: 1480

Ion	Ratio	Lower	Upper
82	100		
128	35.1	30.6	45.8
54	74.9	52.2	78.4

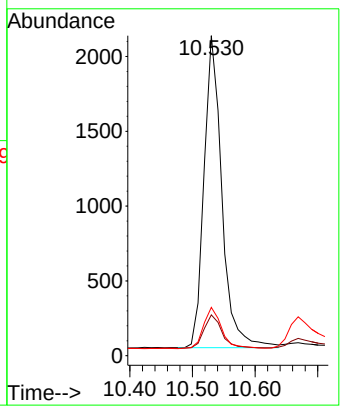




#9
Naphthalene
Concen: 0.352 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:128 Resp: 413

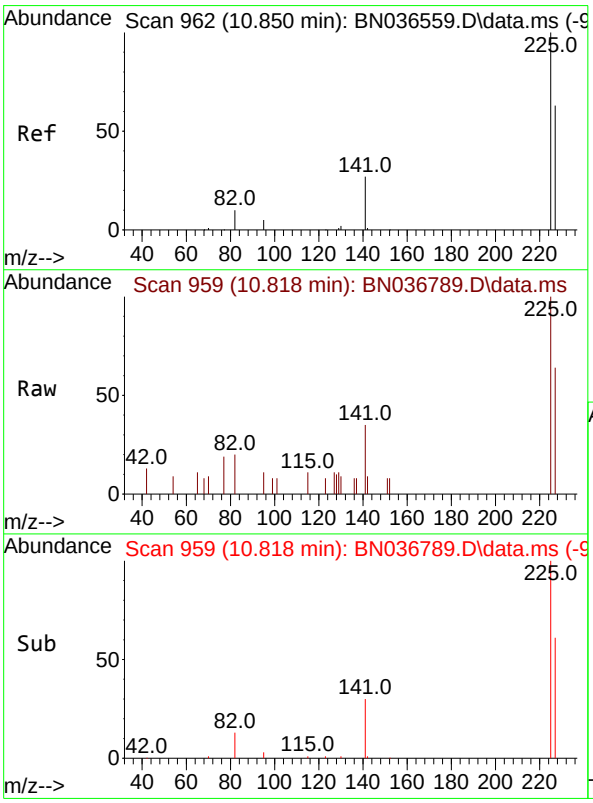
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.1	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

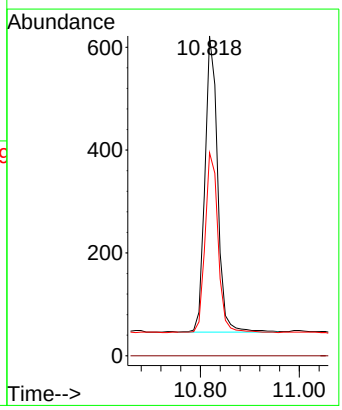
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

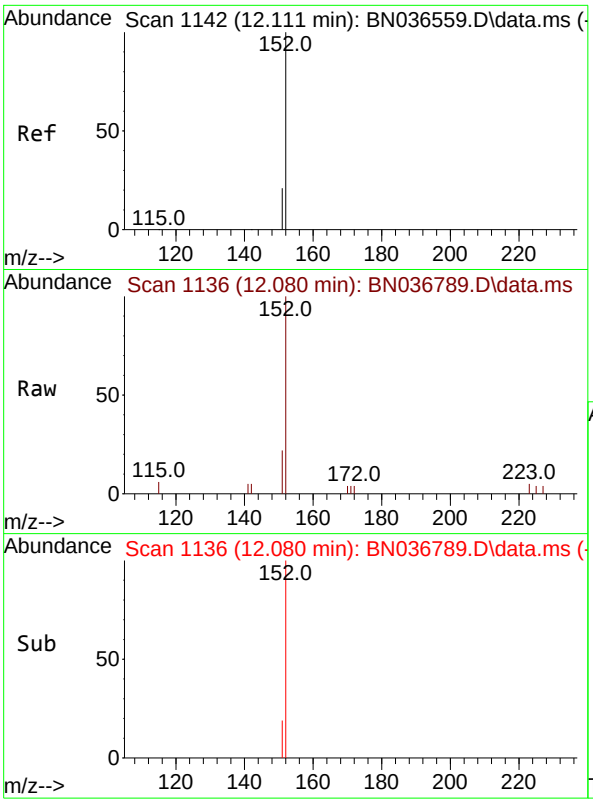


#10
Hexachlorobutadiene
Concen: 0.371 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:225 Resp: 1026

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: 0.355 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

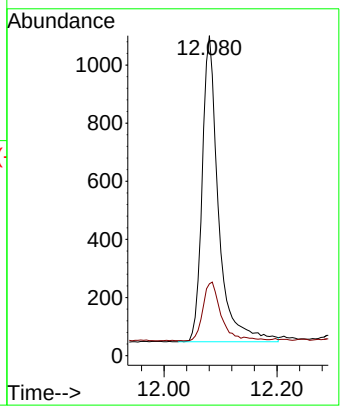
Tgt Ion:152 Resp: 210

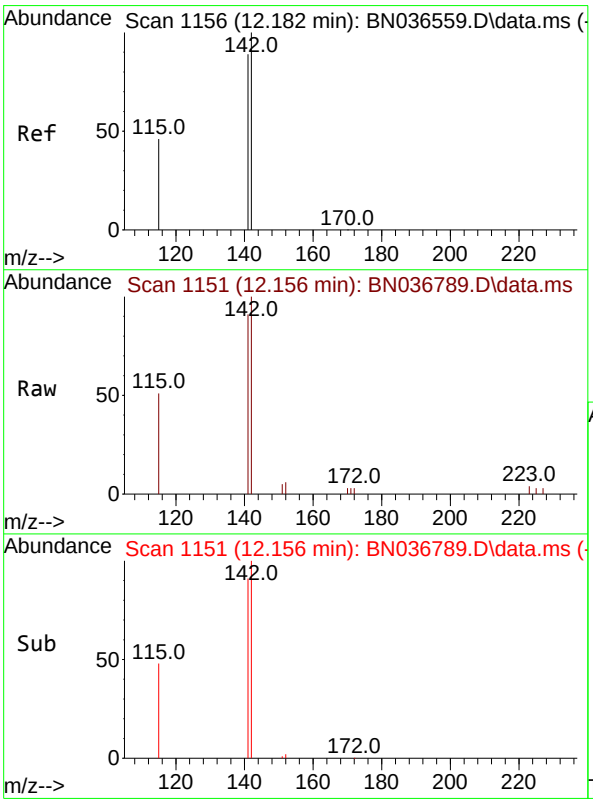
Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

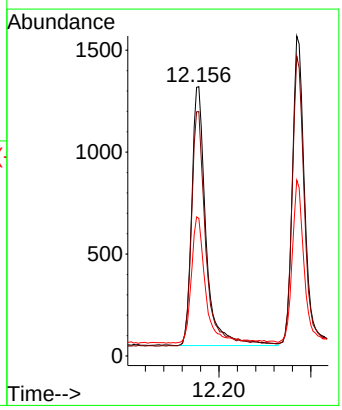


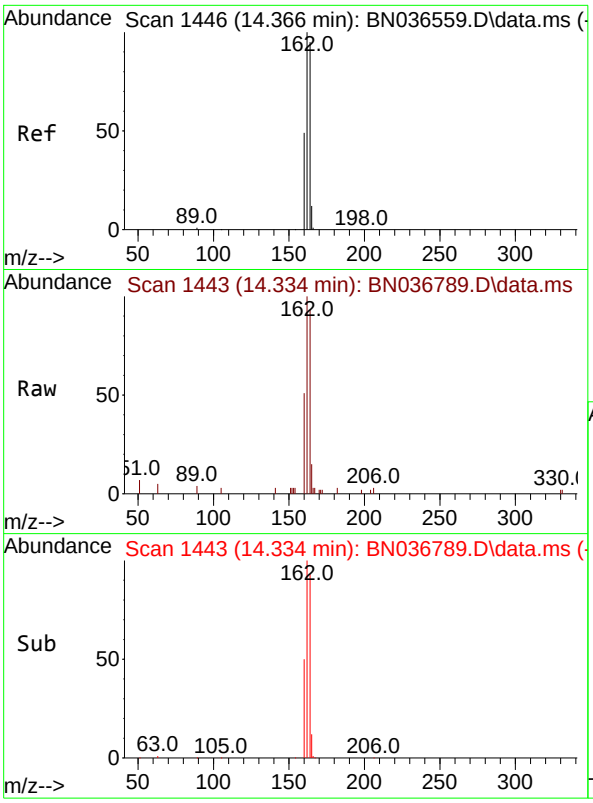


#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:142 Resp: 2744

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.7	107.5
115	51.1	38.3	57.5

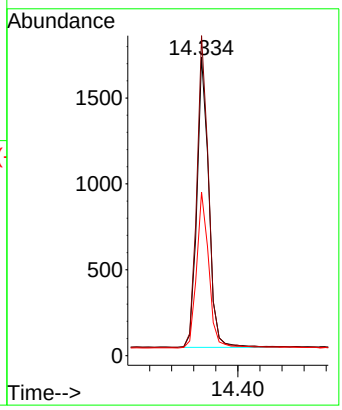




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:164 Resp: 253

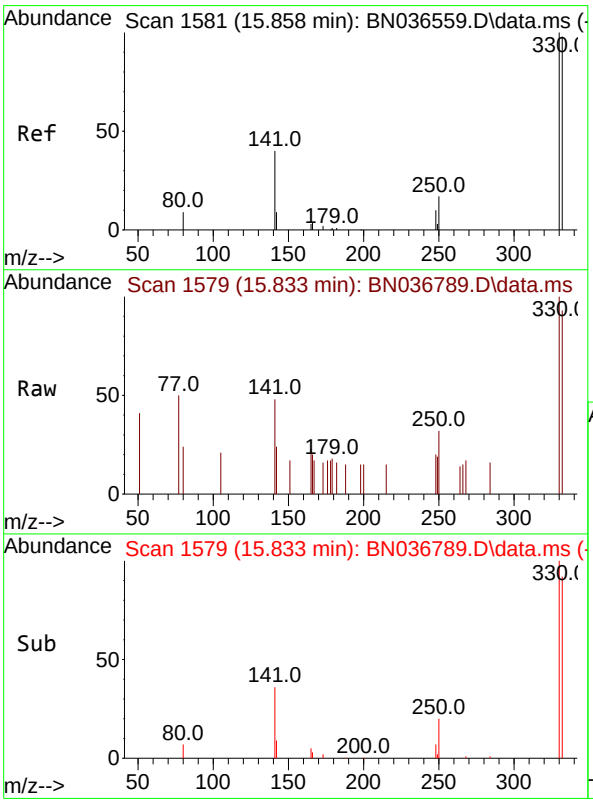
Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.2
160	54.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

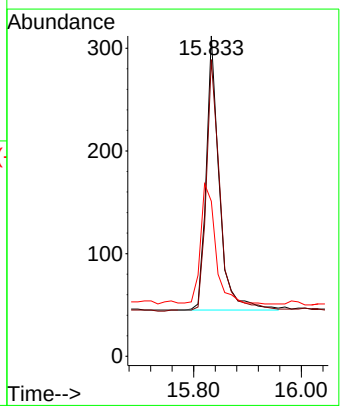
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

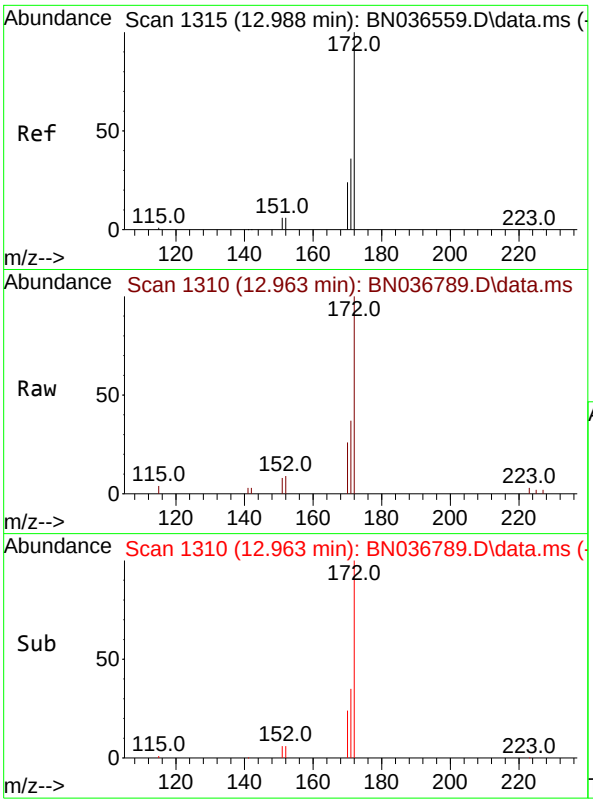


#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:330 Resp: 450

Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.2	112.8
141	50.2	43.4	65.2

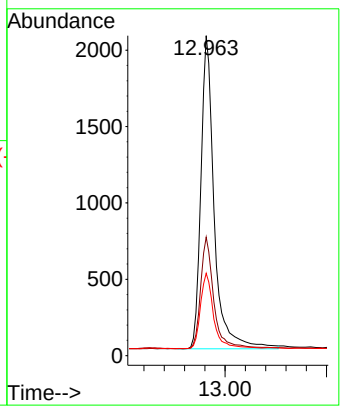




#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:172 Resp: 486

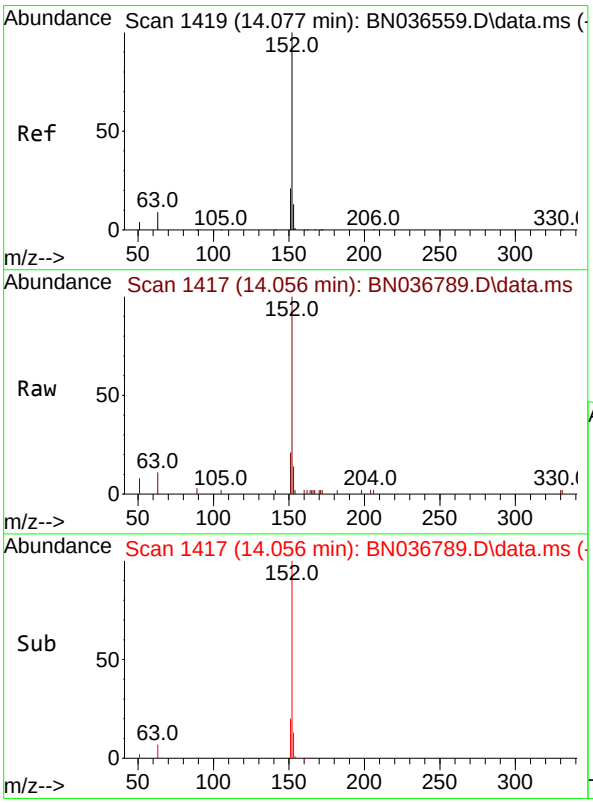
Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.5	44.3
170	25.7	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

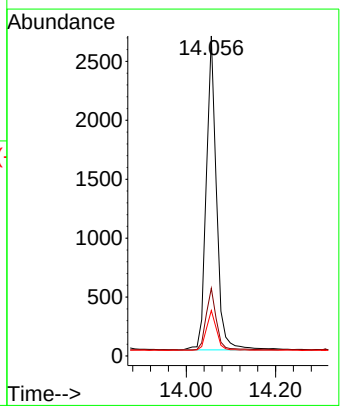
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

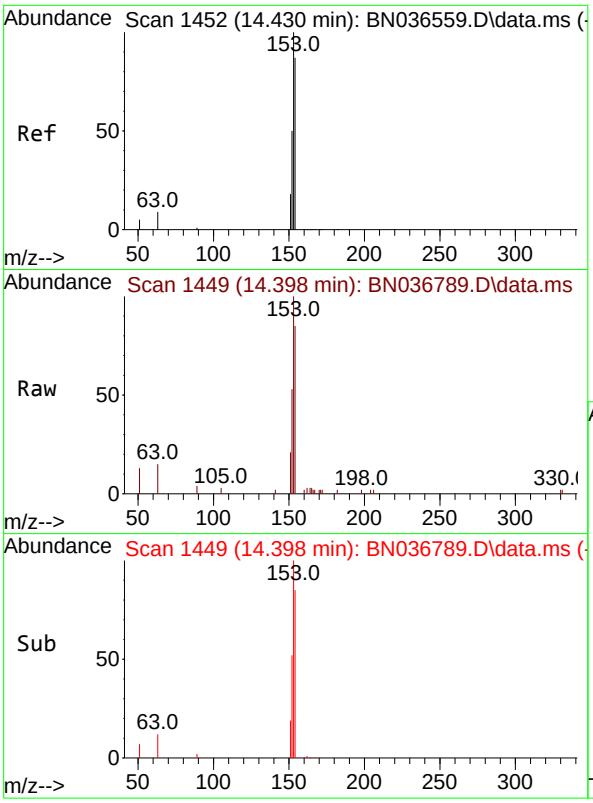


#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:152 Resp: 4217

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.4
153	12.4	10.6	15.8

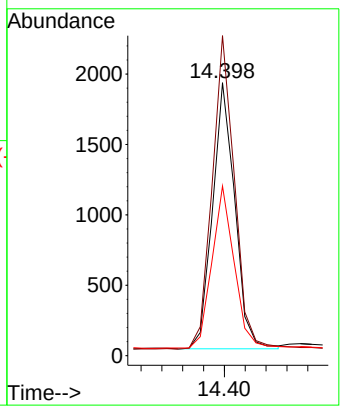




#17
Acenaphthene
Concen: 0.359 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:154 Resp: 281

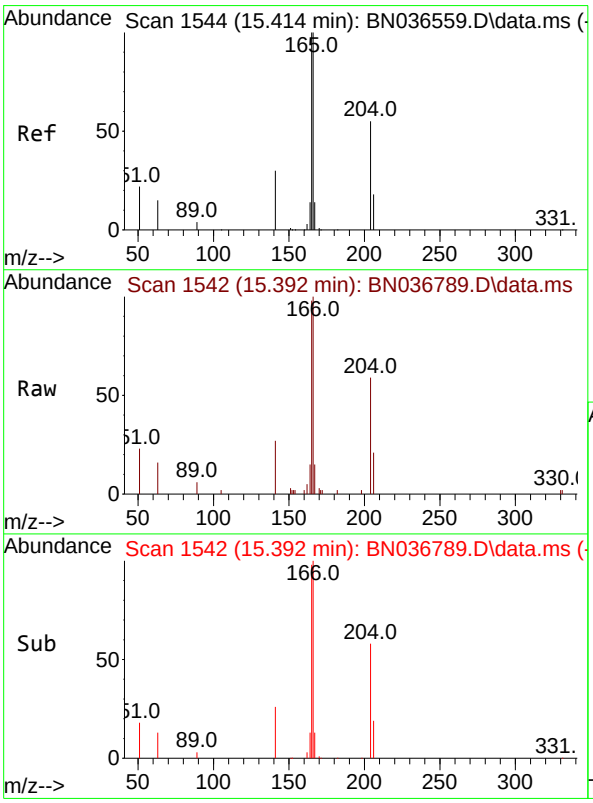
Ion	Ratio	Lower	Upper
154	100		
153	118.9	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

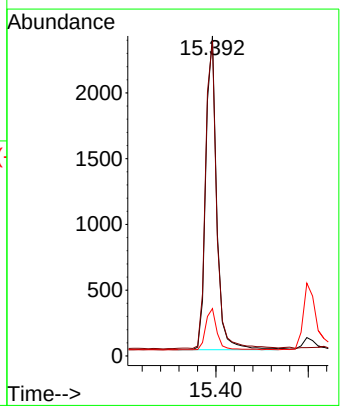
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

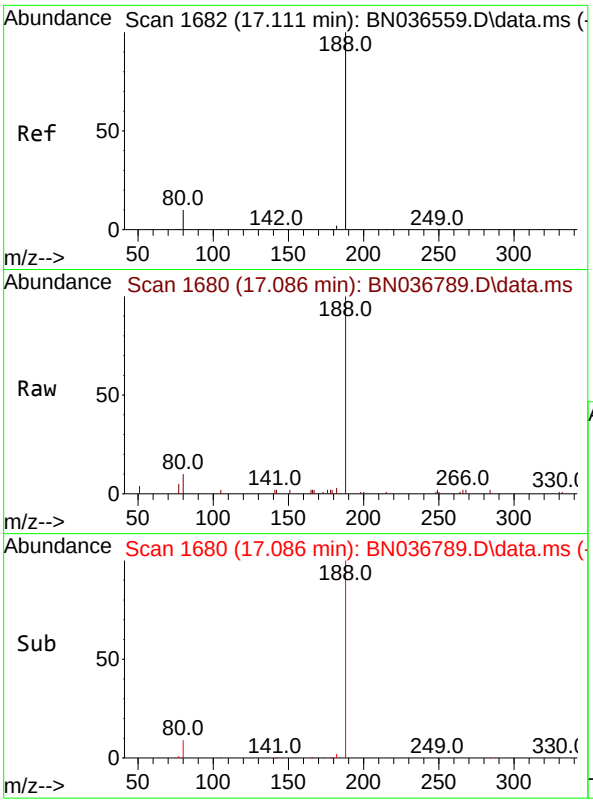


#18
Fluorene
Concen: 0.373 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:166 Resp: 3945

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.8	119.8
167	13.7	10.6	15.8

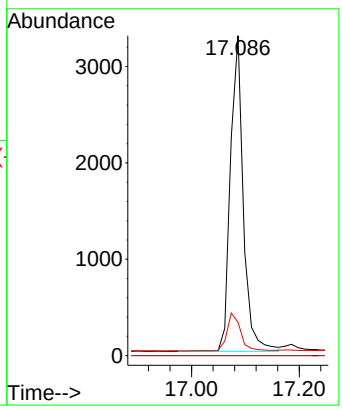




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:188 Resp: 543

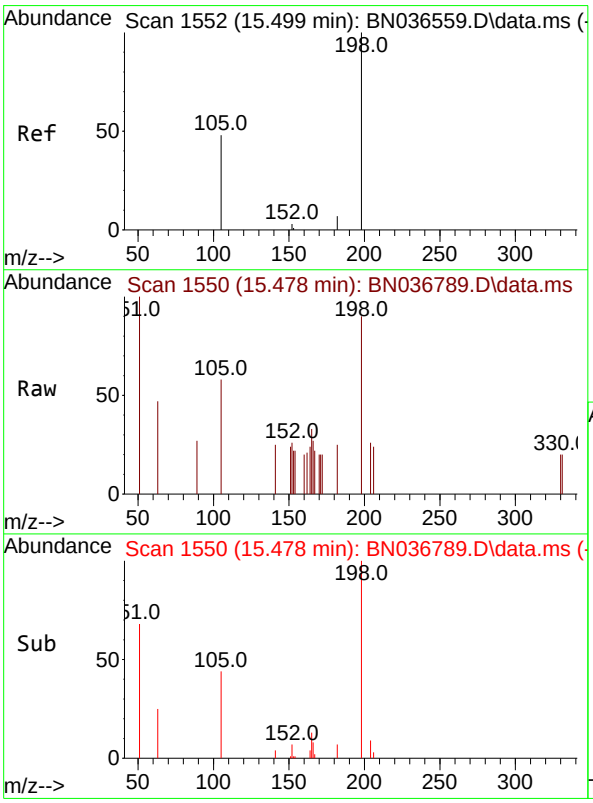
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

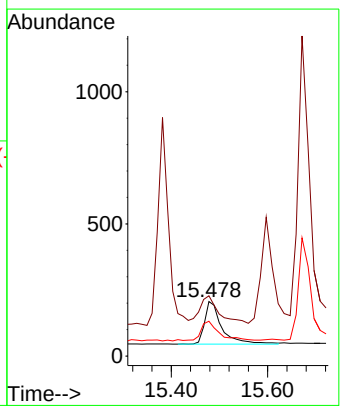
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

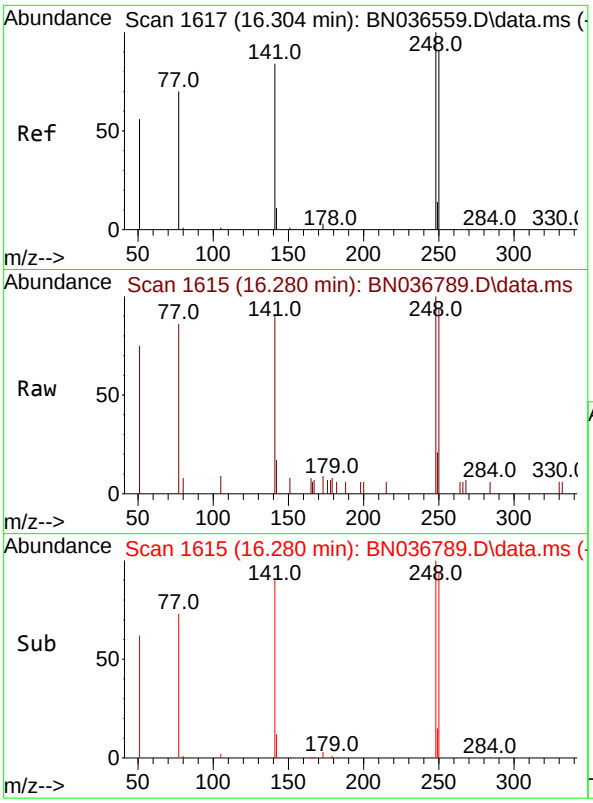


#20
4,6-Dinitro-2-methylphenol
Concen: 0.448 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:198 Resp: 419

Ion	Ratio	Lower	Upper
198	100		
51	110.7	107.9	161.9
105	64.1	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

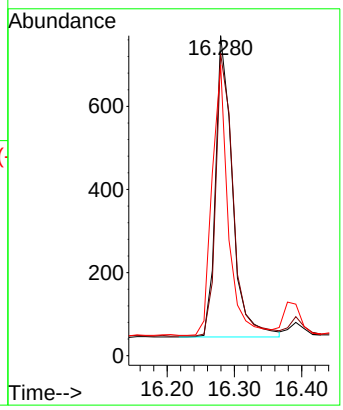
Tgt Ion:248 Resp: 126

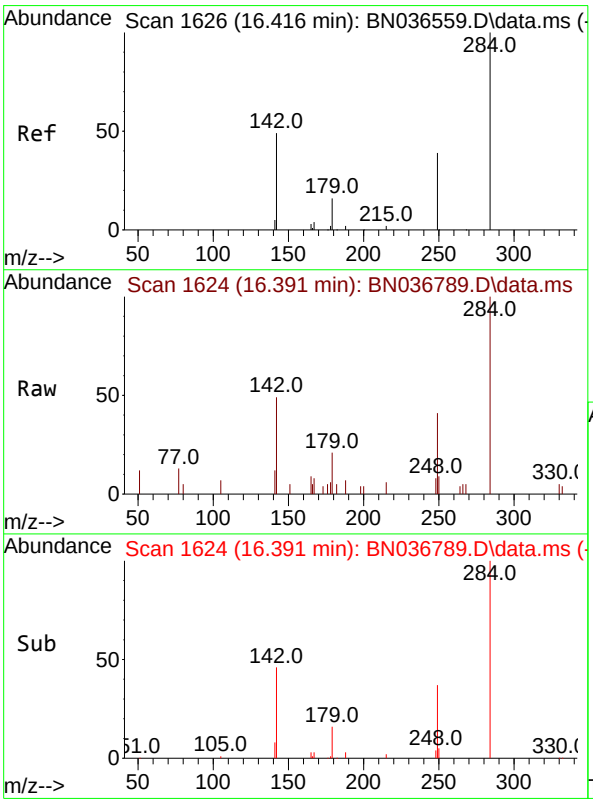
Ion	Ratio	Lower	Upper
248	100		
250	94.4	73.0	109.6
141	90.9	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

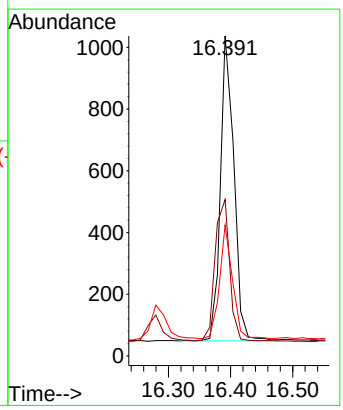


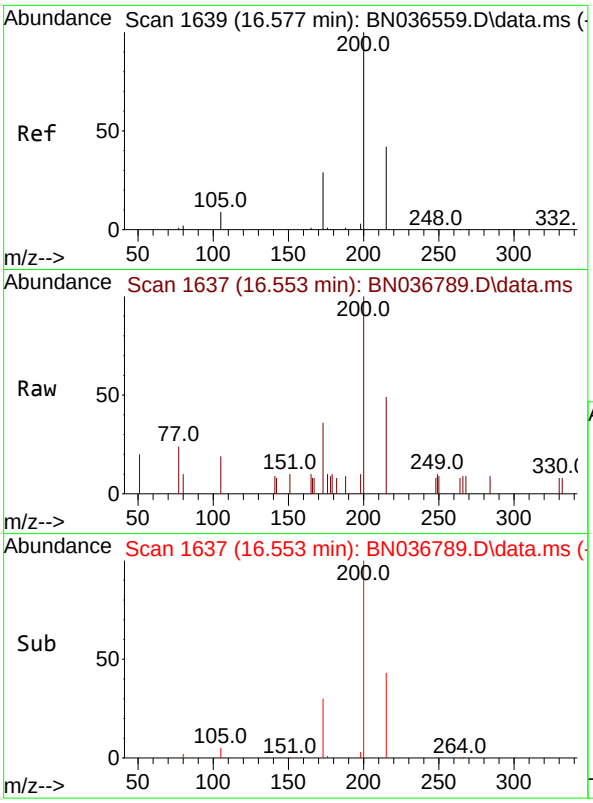


#22
Hexachlorobenzene
Concen: 0.362 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:284 Resp: 1487

Ion	Ratio	Lower	Upper
284	100		
142	51.0	37.0	55.4
249	36.1	28.1	42.1

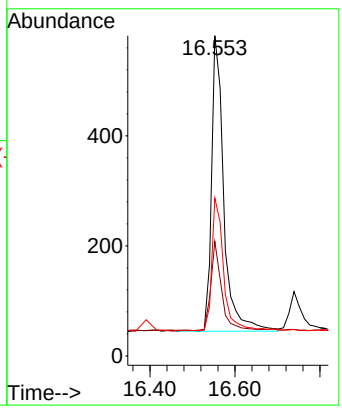




#23
Atrazine
Concen: 0.393 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:200 Resp: 107

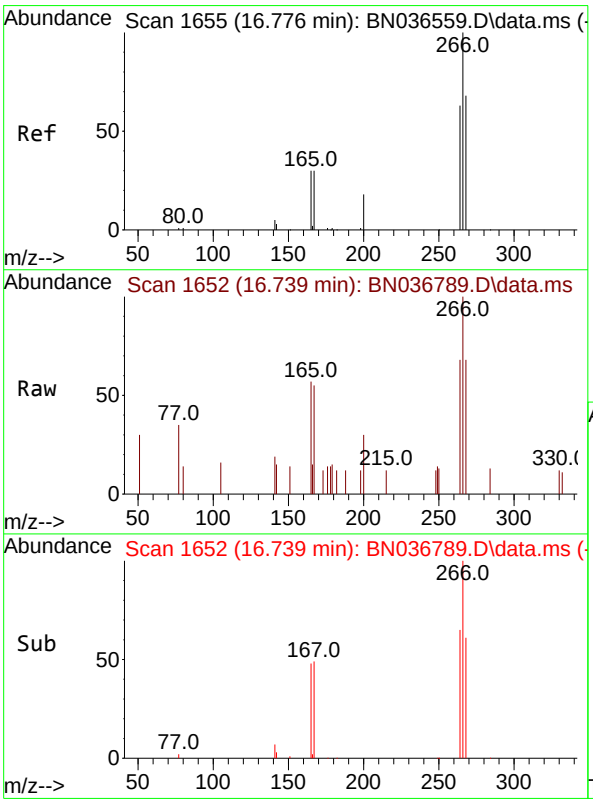
Ion	Ratio	Lower	Upper
200	100		
173	35.7	27.3	40.9
215	49.3	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

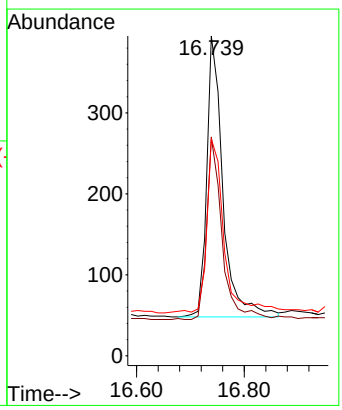
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

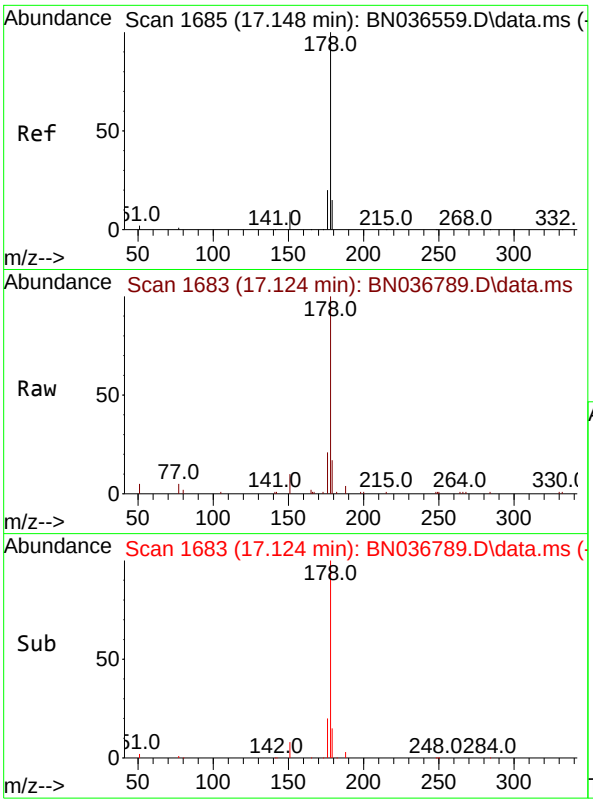


#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:266 Resp: 722

Ion	Ratio	Lower	Upper
266	100		
264	61.6	49.6	74.4
268	66.5	50.9	76.3

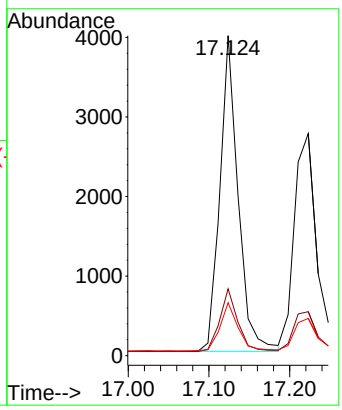




#25
Phenanthrene
Concen: 0.382 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:178 Resp: 622

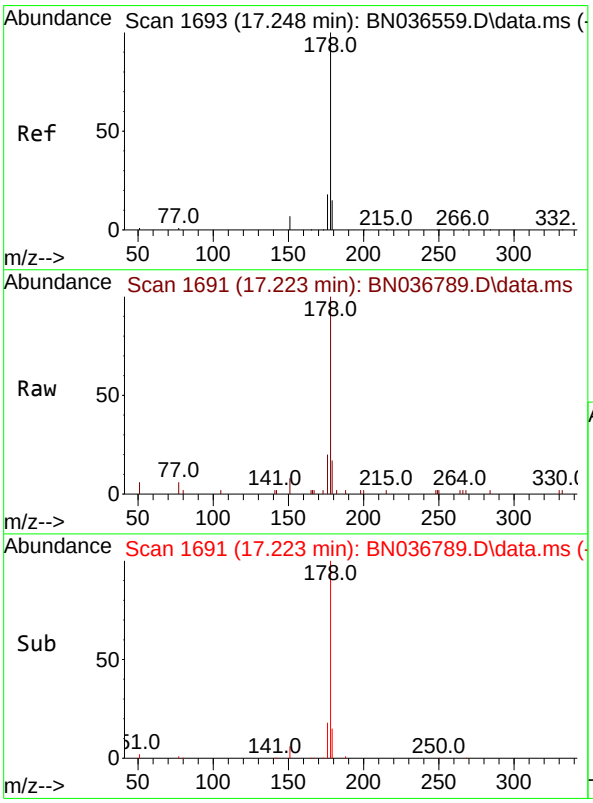
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	15.2	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

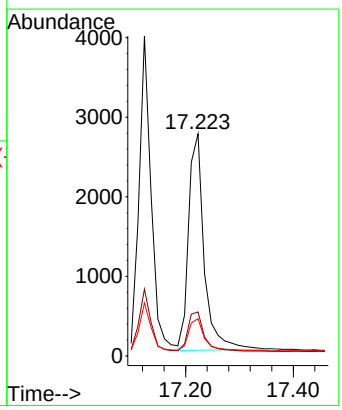
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

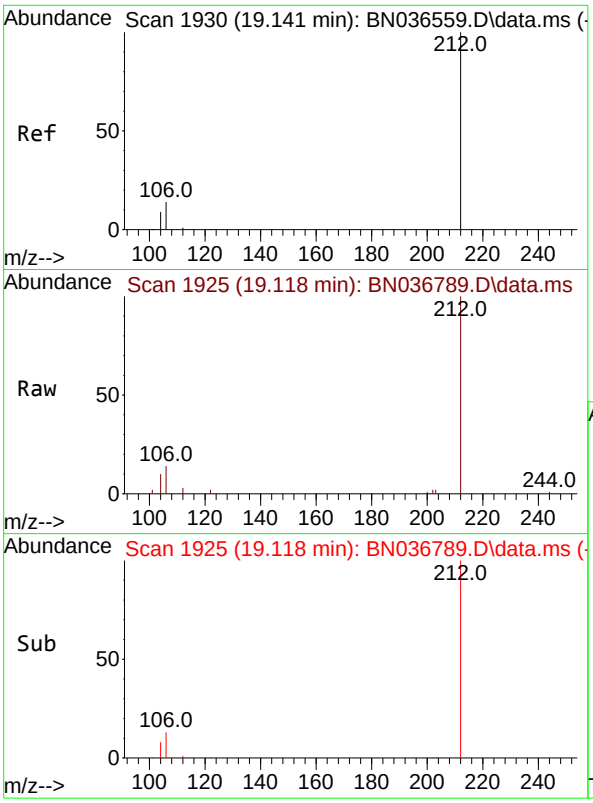


#26
Anthracene
Concen: 0.373 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:178 Resp: 5484

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	18.8

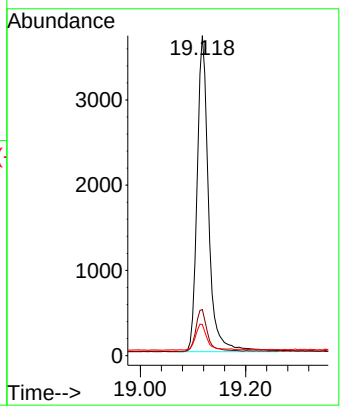




#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:212 Resp: 561

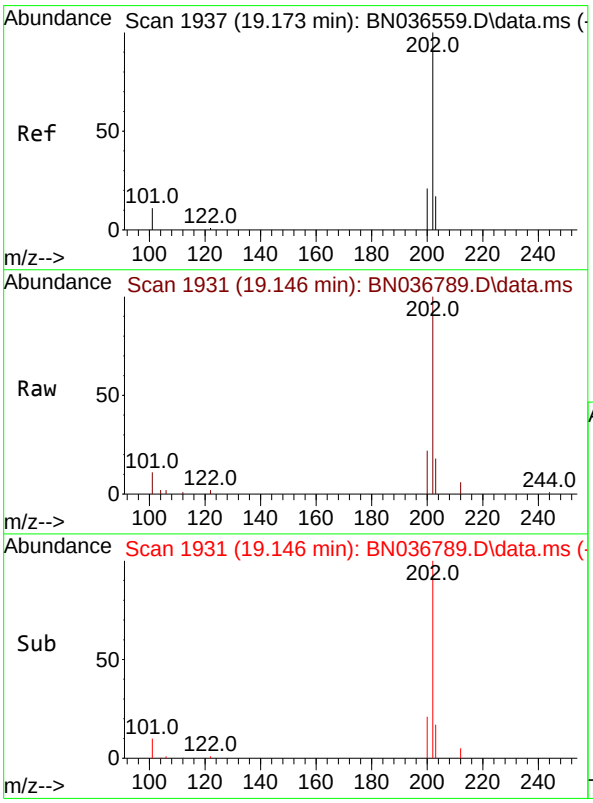
Ion	Ratio	Lower	Upper
212	100		
106	13.3	11.8	17.6
104	7.9	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

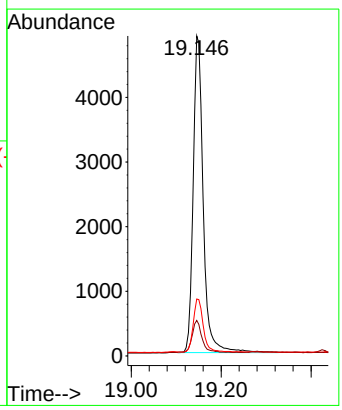
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

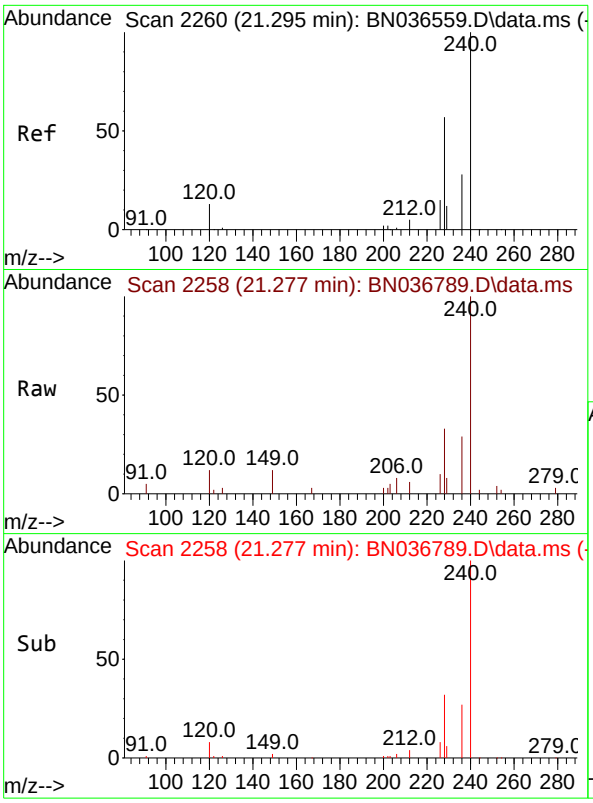


#28
Fluoranthene
Concen: 0.417 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:202 Resp: 7639

Ion	Ratio	Lower	Upper
202	100		
101	9.9	9.4	14.0
203	16.8	13.5	20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

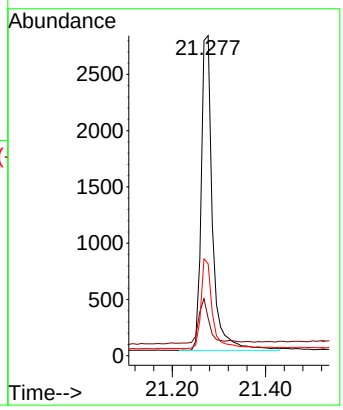
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

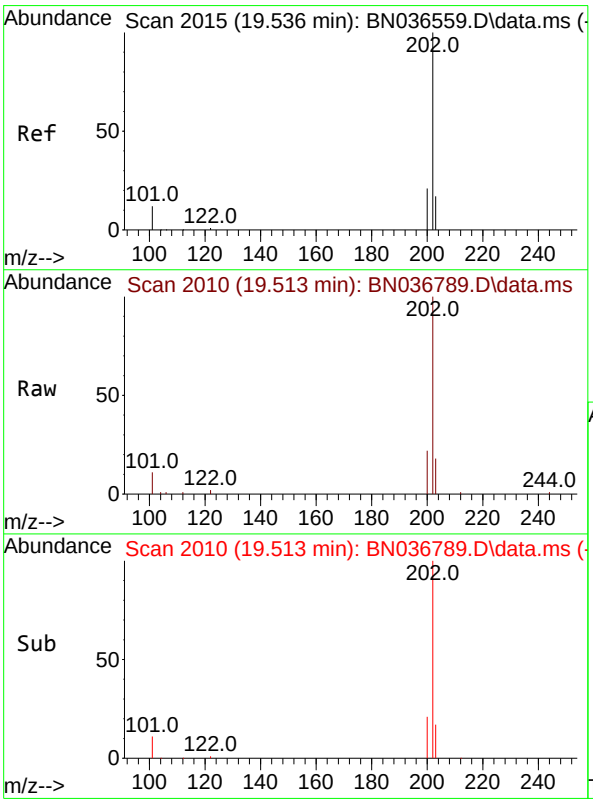
Tgt Ion:240 Resp: 474

Ion	Ratio	Lower	Upper
240	100		
120	11.7	14.6	22.0#
236	28.7	24.1	36.1

Manual Integrations
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

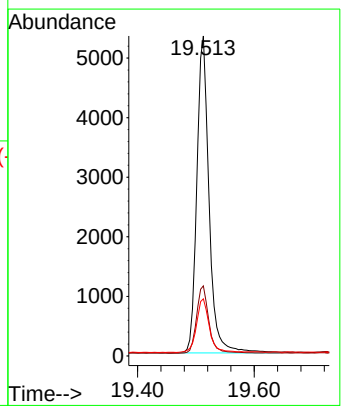


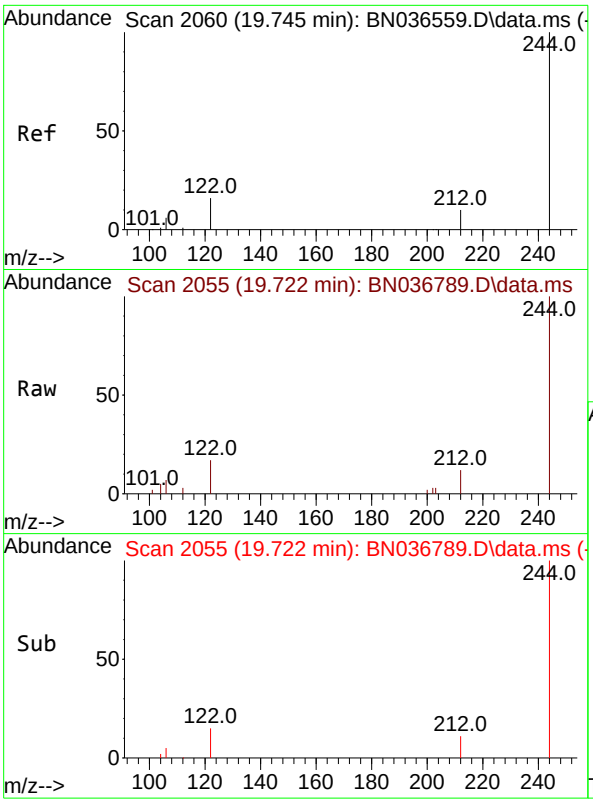


#30
Pyrene
Concen: 0.334 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:202 Resp: 7743

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





#31
Terphenyl-d14
Concen: 0.326 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

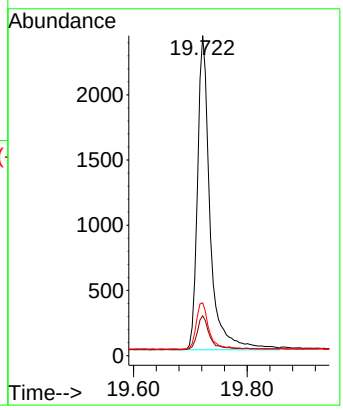
Tgt Ion:244 Resp: 370

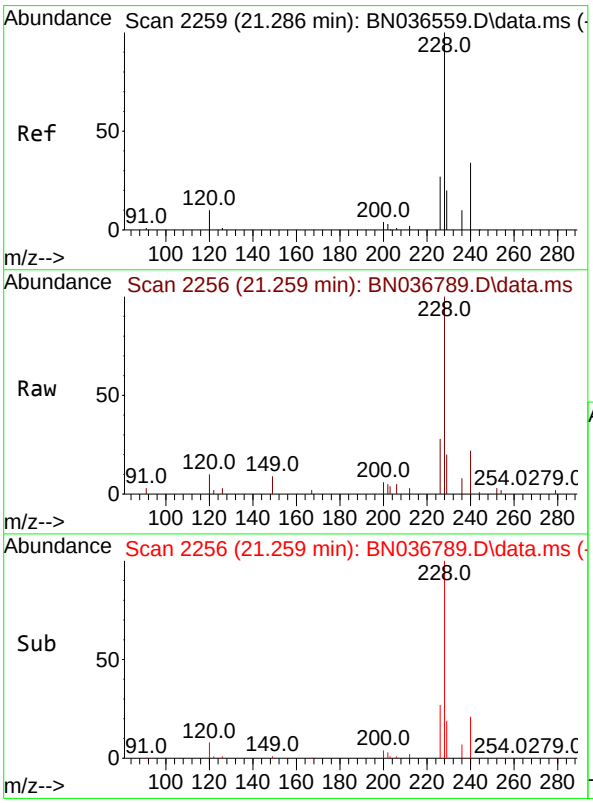
Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.6	14.4
122	16.5	13.9	20.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

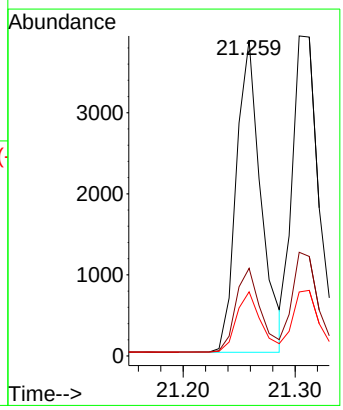


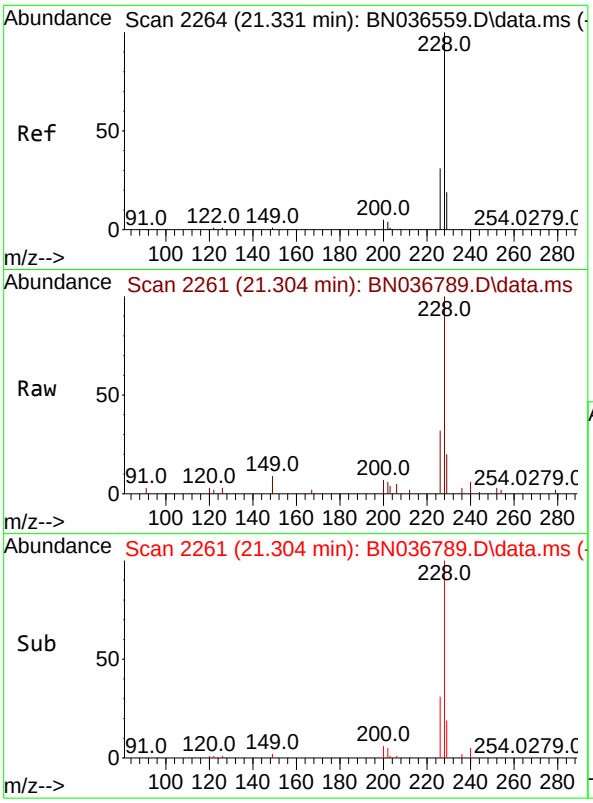


#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:228 Resp: 5885

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.5	33.7
229	20.3	16.6	25.0

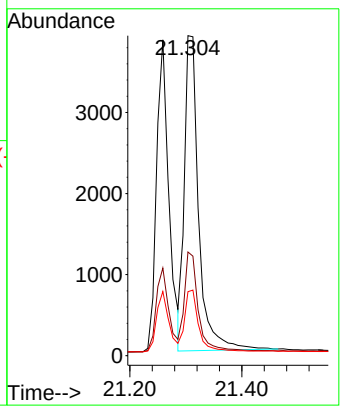




#33
Chrysene
Concen: 0.384 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:228 Resp: 691

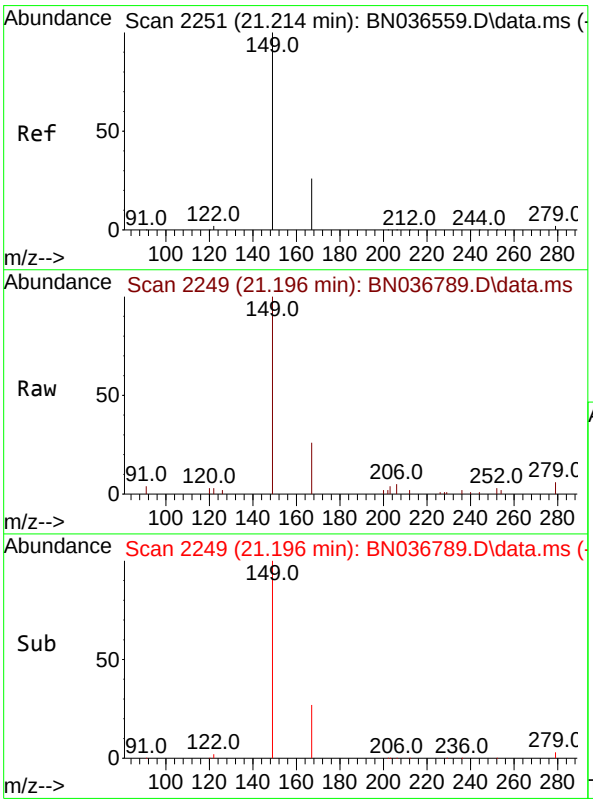
Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.3	37.9
229	20.0	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

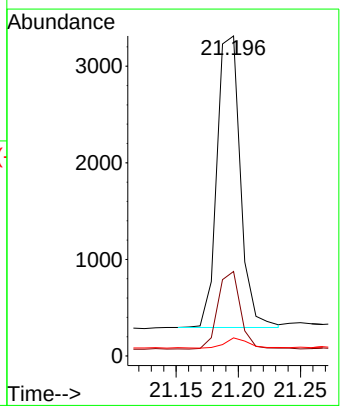
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

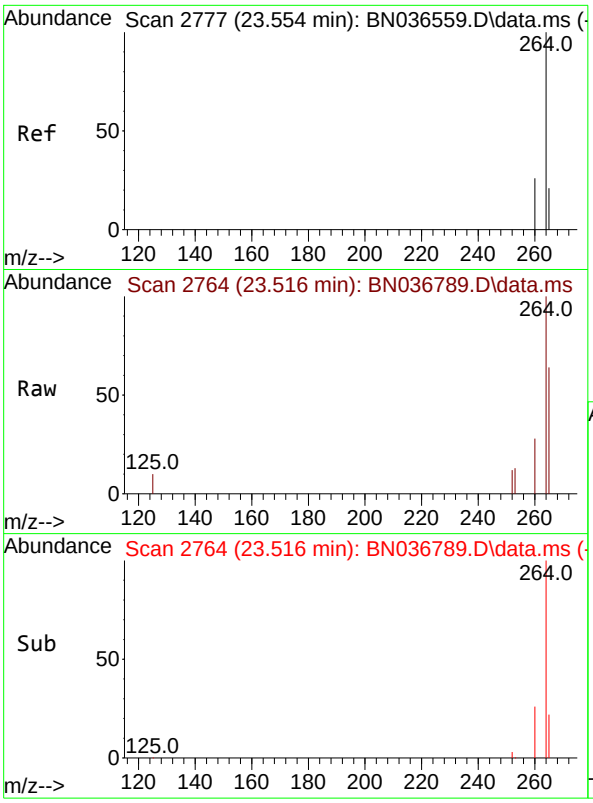


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.336 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:149 Resp: 3944

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	3.5	3.6	5.4#

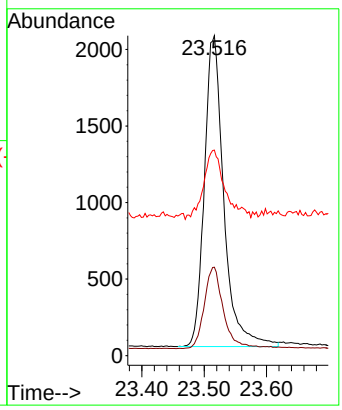




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:264 Resp: 439

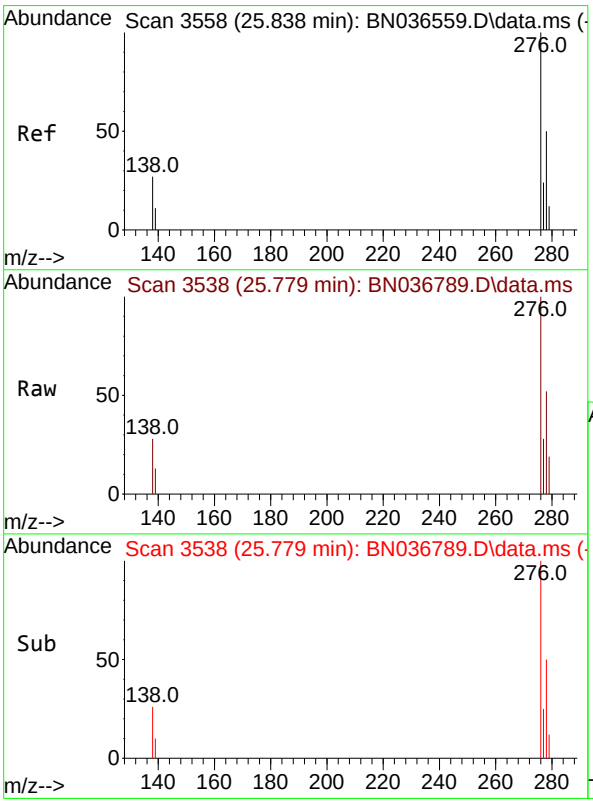
Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	64.3	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

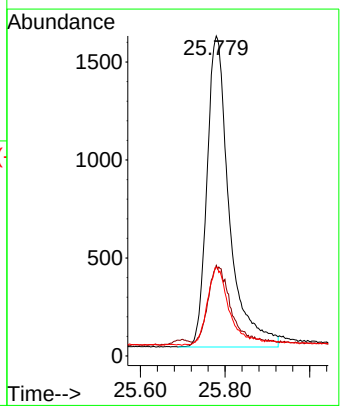
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

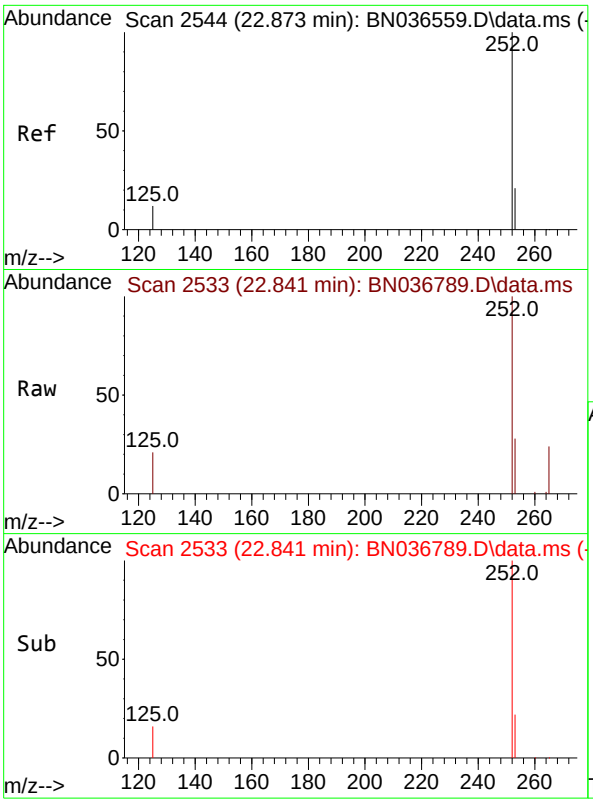


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:276 Resp: 5807

Ion	Ratio	Lower	Upper
276	100		
138	23.6	23.4	35.2
277	24.5	20.0	30.0

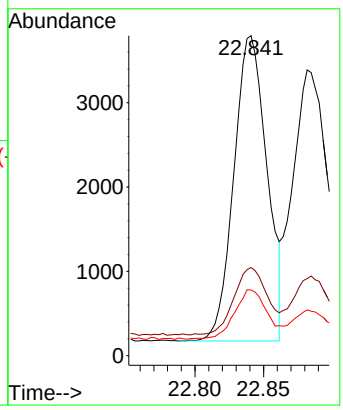




#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:252 Resp: 606

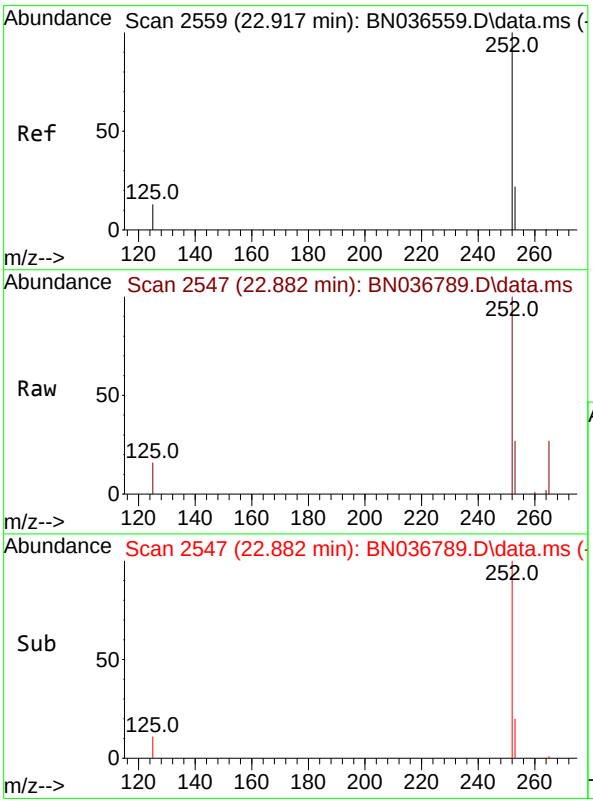
Ion	Ratio	Lower	Upper
252	100		
253	27.6	23.9	35.9
125	20.5	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

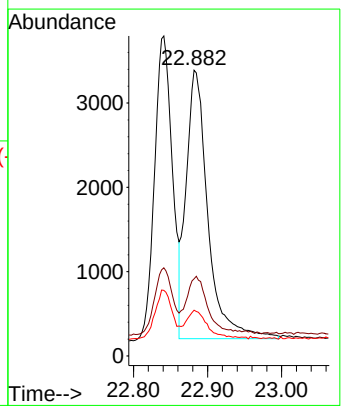
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

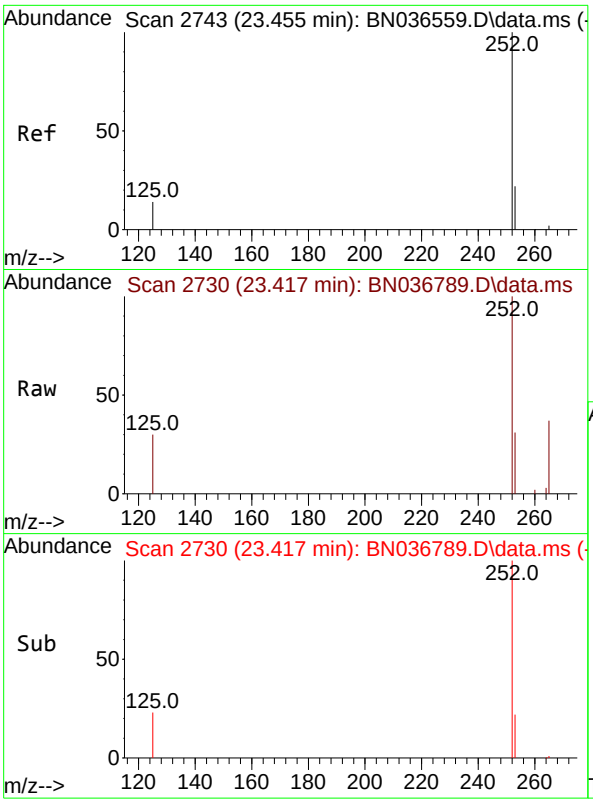


#38
Benzo(k)fluoranthene
Concen: 0.390 ng m
RT: 22.882 min Scan# 2547
Delta R.T. -0.035 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:252 Resp: 6533

Ion	Ratio	Lower	Upper
252	100		
253	27.0	24.6	36.8
125	16.0	17.8	26.8#

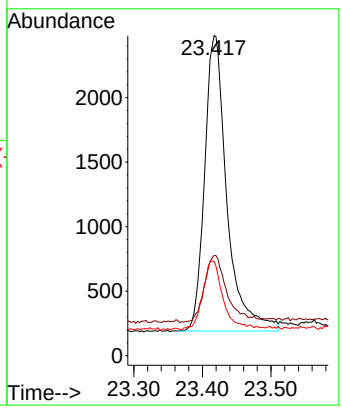




#39
Benzo(a)pyrene
Concen: 0.386 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:252 Resp: 518

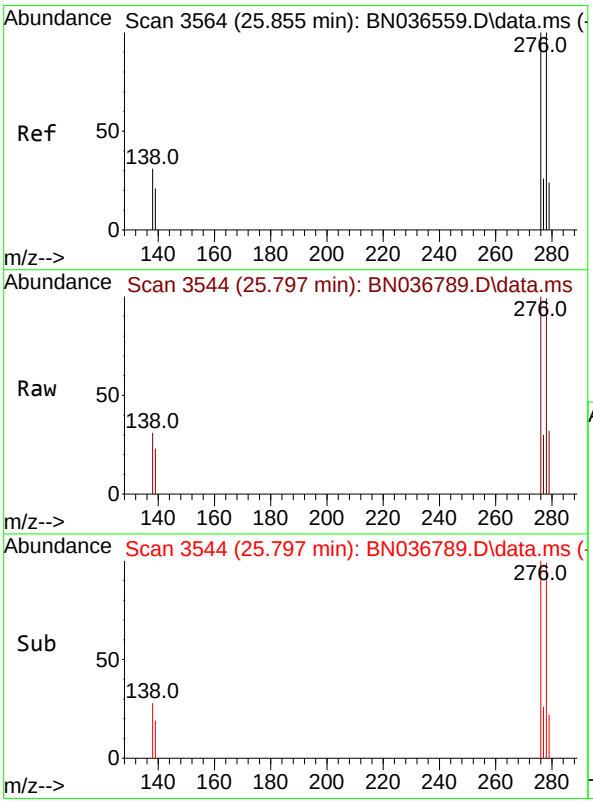
Ion	Ratio	Lower	Upper
252	100		
253	31.3	27.8	41.8
125	29.5	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

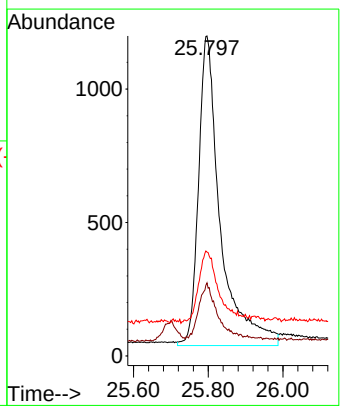
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

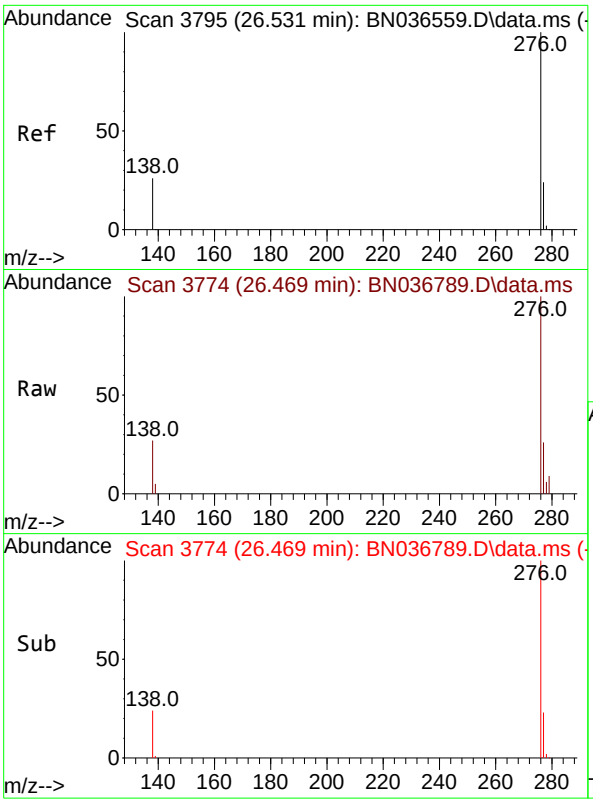


#40
Dibenzo(a,h)anthracene
Concen: 0.381 ng m
RT: 25.797 min Scan# 3544
Delta R.T. -0.058 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:278 Resp: 4700

Ion	Ratio	Lower	Upper
278	100		
139	22.9	20.8	31.2
279	32.4	28.8	43.2

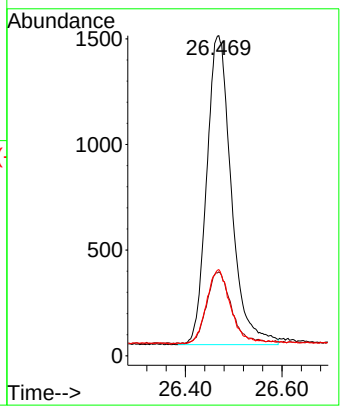




#41
Benzo(g,h,i)perylene
Concen: 0.366 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:276 Resp: 517

Ion	Ratio	Lower	Upper
276	100		
277	26.2	22.2	33.4
138	26.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036789.D
Acq On : 29 Mar 2025 00:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 29 01:57:50 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 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	73	-0.03
2		1,4-Dioxane	0.444	0.434	2.3	63	-0.01
3		n-Nitrosodimethylamine	0.898	0.871	3.0	68	0.00
4	S	2-Fluorophenol	0.932	0.840	9.9	62	-0.02
5	S	Phenol-d6	1.152	0.971	15.7	63	-0.03
6		bis(2-Chloroethyl)ether	1.190	0.998	16.1	61	-0.03
7	I	Naphthalene-d8	1.000	1.000	0.0	78	-0.02
8	S	Nitrobenzene-d5	0.435	0.371	14.7	70	-0.03
9		Naphthalene	1.177	1.036	12.0	67	-0.03
10		Hexachlorobutadiene	0.277	0.257	7.2	68	-0.03
11	SURR	2-Methylnaphthalene-d10	0.595	0.529	11.1	68	-0.03
12		2-Methylnaphthalene	0.749	0.688	8.1	70	-0.03
13	I	Acenaphthene-d10	1.000	1.000	0.0	84	-0.03
14	S	2,4,6-Tribromophenol	0.182	0.178	2.2	79	-0.02
15	S	2-Fluorobiphenyl	2.327	1.920	17.5	67	-0.03
16		Acenaphthylene	1.888	1.664	11.9	72	-0.02
17		Acenaphthene	1.236	1.109	10.3	73	-0.03
18		Fluorene	1.672	1.557	6.9	74	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	90	-0.02
20		4,6-Dinitro-2-methylphenol	0.086	0.077	10.5	91	-0.02
21		4-Bromophenyl-phenylether	0.251	0.232	7.6	77	-0.02
22		Hexachlorobenzene	0.303	0.274	9.6	74	-0.02
23		Atrazine	0.201	0.198	1.5	84	-0.02
24		Pentachlorophenol	0.138	0.133	3.6	88	-0.04
25		Phenanthrene	1.200	1.146	4.5	80	-0.02
26		Anthracene	1.083	1.010	6.7	80	-0.02
27	SURR	Fluoranthene-d10	1.025	1.034	-0.9	84	-0.02
28		Fluoranthene	1.348	1.406	-4.3	88	-0.03
29	I	Chrysene-d12	1.000	1.000	0.0	115	-0.02
30		Pyrene	1.956	1.633	16.5	88	-0.02
31	S	Terphenyl-d14	0.958	0.781	18.5	88	-0.02
32		Benzo(a)anthracene	1.391	1.241	10.8	100	-0.03
33		Chrysene	1.520	1.457	4.1	104	-0.03
34		Bis(2-ethylhexyl)phthalate	0.990	0.832	16.0	92	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	124	-0.04
36		Indeno(1,2,3-cd)pyrene	1.444	1.322	8.4	106	-0.06
37		Benzo(b)fluoranthene	1.456	1.380	5.2	111	-0.03
38		Benzo(k)fluoranthene	1.527	1.487	2.6	114	-0.04
39	C	Benzo(a)pyrene	1.226	1.181	3.7	113	-0.04
40		Dibenzo(a,h)anthracene	1.124	1.070	4.8	114	-0.06
41		Benzo(g,h,i)perylene	1.286	1.177	8.5	106	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036789.D
Acq On : 29 Mar 2025 00:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 29 01:57:50 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 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	73	-0.03
2		1,4-Dioxane	0.400	0.391	2.3	63	-0.01
3		n-Nitrosodimethylamine	0.400	0.388	3.0	68	0.00
4	S	2-Fluorophenol	0.400	0.360	10.0	62	-0.02
5	S	Phenol-d6	0.400	0.337	15.8	63	-0.03
6		bis(2-Chloroethyl)ether	0.400	0.335	16.3	61	-0.03
7	I	Naphthalene-d8	0.400	0.400	0.0	78	-0.02
8	S	Nitrobenzene-d5	0.400	0.341	14.8	70	-0.03
9		Naphthalene	0.400	0.352	12.0	67	-0.03
10		Hexachlorobutadiene	0.400	0.371	7.3	68	-0.03
11	SURR	2-Methylnaphthalene-d10	0.400	0.355	11.3	68	-0.03
12		2-Methylnaphthalene	0.400	0.367	8.3	70	-0.03
13	I	Acenaphthene-d10	0.400	0.400	0.0	84	-0.03
14	S	2,4,6-Tribromophenol	0.400	0.391	2.3	79	-0.02
15	S	2-Fluorobiphenyl	0.400	0.330	17.5	67	-0.03
16		Acenaphthylene	0.400	0.353	11.8	72	-0.02
17		Acenaphthene	0.400	0.359	10.3	73	-0.03
18		Fluorene	0.400	0.373	6.8	74	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	90	-0.02
20		4,6-Dinitro-2-methylphenol	0.400	0.448	-12.0	91	-0.02
21		4-Bromophenyl-phenylether	0.400	0.371	7.3	77	-0.02
22		Hexachlorobenzene	0.400	0.362	9.5	74	-0.02
23		Atrazine	0.400	0.393	1.8	84	-0.02
24		Pentachlorophenol	0.400	0.385	3.8	88	-0.04
25		Phenanthrene	0.400	0.382	4.5	80	-0.02
26		Anthracene	0.400	0.373	6.8	80	-0.02
27	SURR	Fluoranthene-d10	0.400	0.403	-0.8	84	-0.02
28		Fluoranthene	0.400	0.417	-4.2	88	-0.03
29	I	Chrysene-d12	0.400	0.400	0.0	115	-0.02
30		Pyrene	0.400	0.334	16.5	88	-0.02
31	S	Terphenyl-d14	0.400	0.326	18.5	88	-0.02
32		Benzo(a)anthracene	0.400	0.357	10.8	100	-0.03
33		Chrysene	0.400	0.384	4.0	104	-0.03
34		Bis(2-ethylhexyl)phthalate	0.400	0.336	16.0	92	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	124	-0.04
36		Indeno(1,2,3-cd)pyrene	0.400	0.366	8.5	106	-0.06
37		Benzo(b)fluoranthene	0.400	0.379	5.3	111	-0.03
38		Benzo(k)fluoranthene	0.400	0.390	2.5	114	-0.04
39	C	Benzo(a)pyrene	0.400	0.386	3.5	113	-0.04
40		Dibenzo(a,h)anthracene	0.400	0.381	4.8	114	-0.06
41		Benzo(g,h,i)perylene	0.400	0.366	8.5	106	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

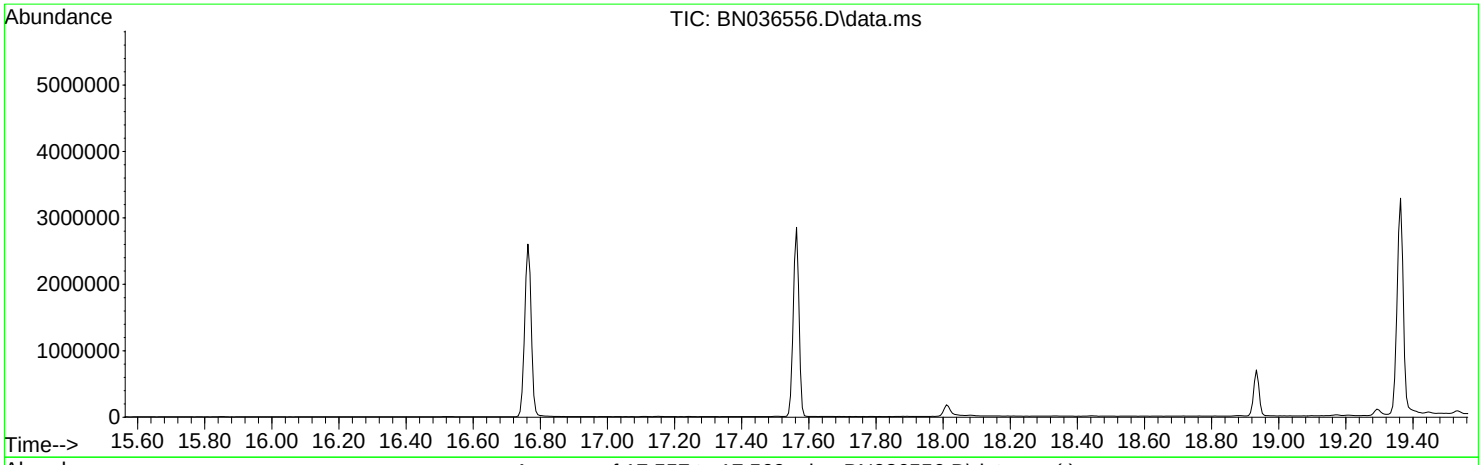
QC SAMPLE DATA

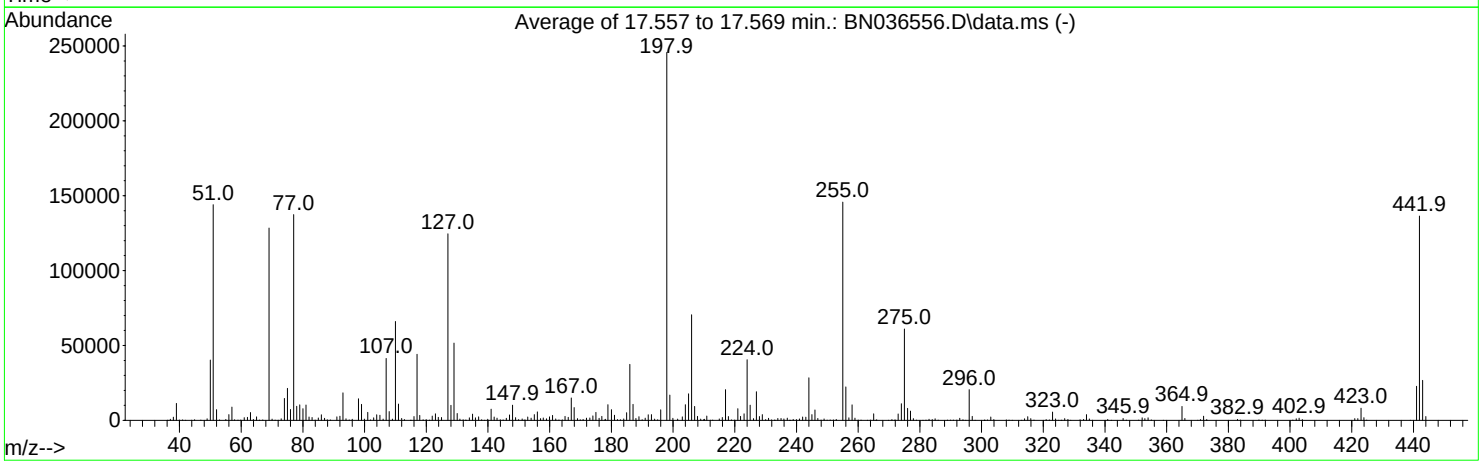
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

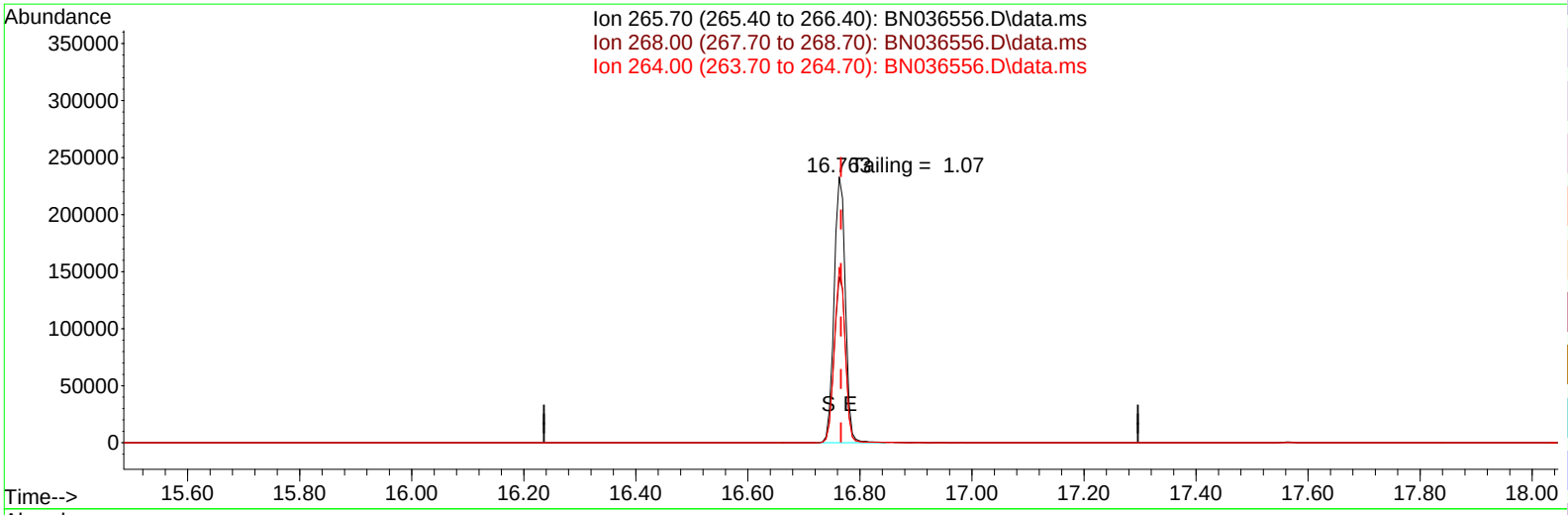
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	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

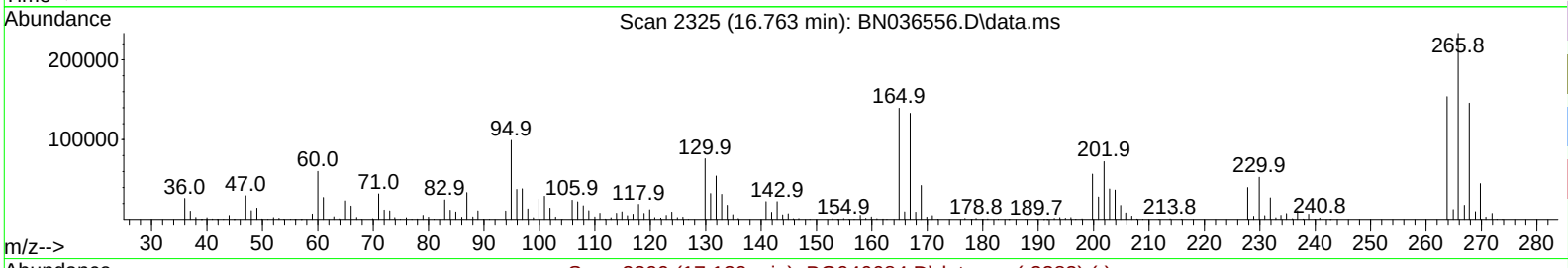
Sample Results: **BN036556.D**

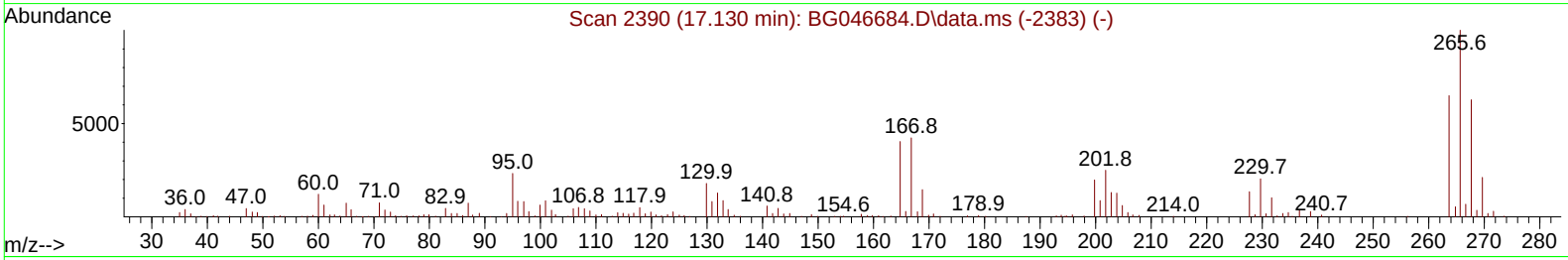
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

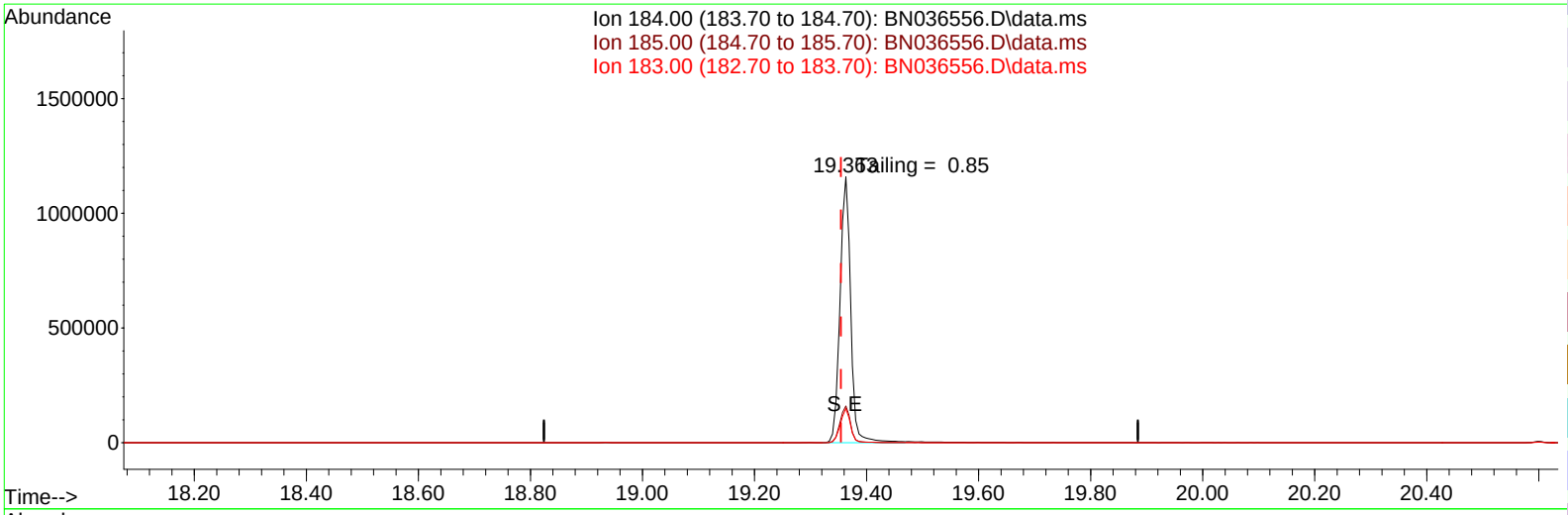
response 323613

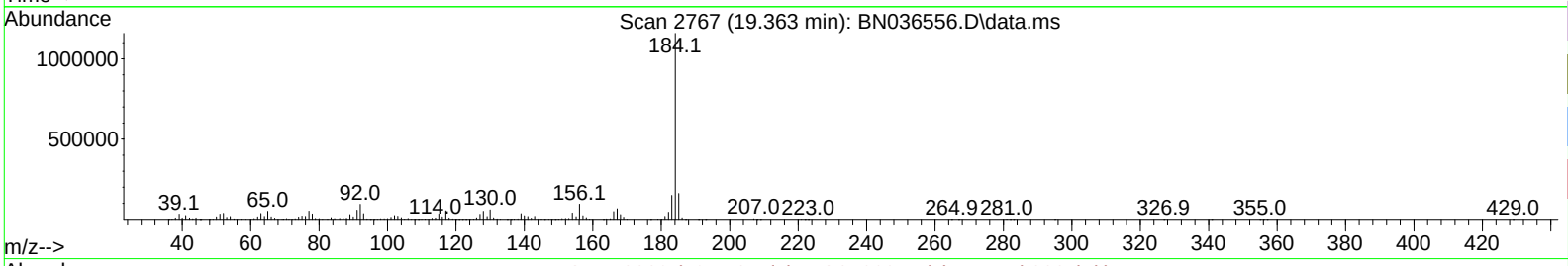
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

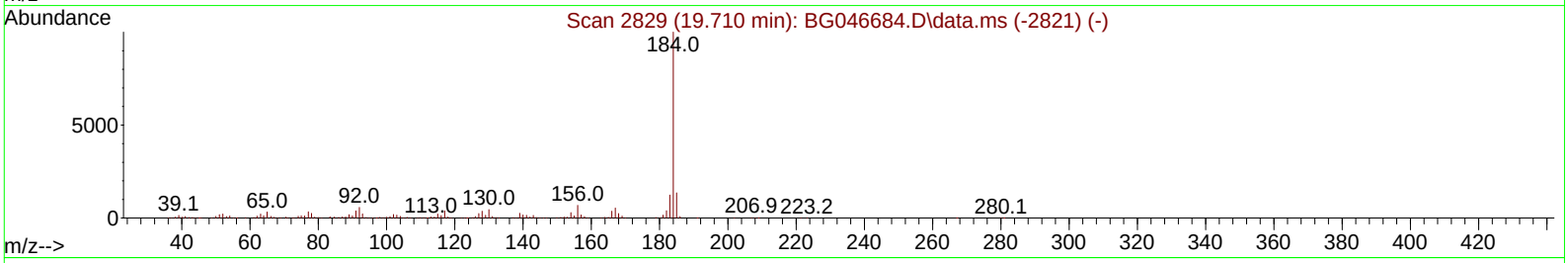
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

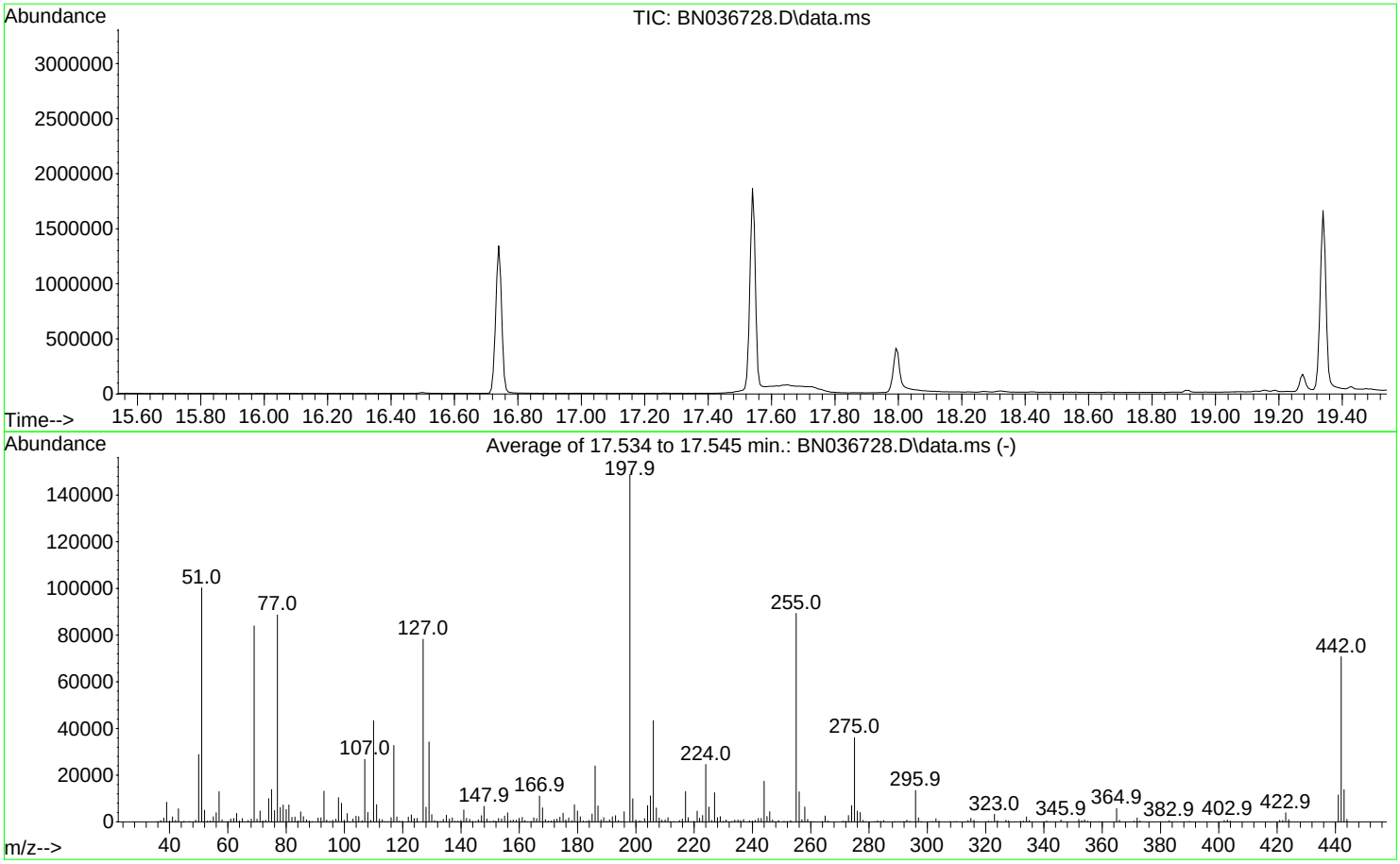
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	BN036556.D
Compound Name	**Response**	**Retention Time**
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12126	1122532	1.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036728.D
Acq On : 27 Mar 2025 09:10
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



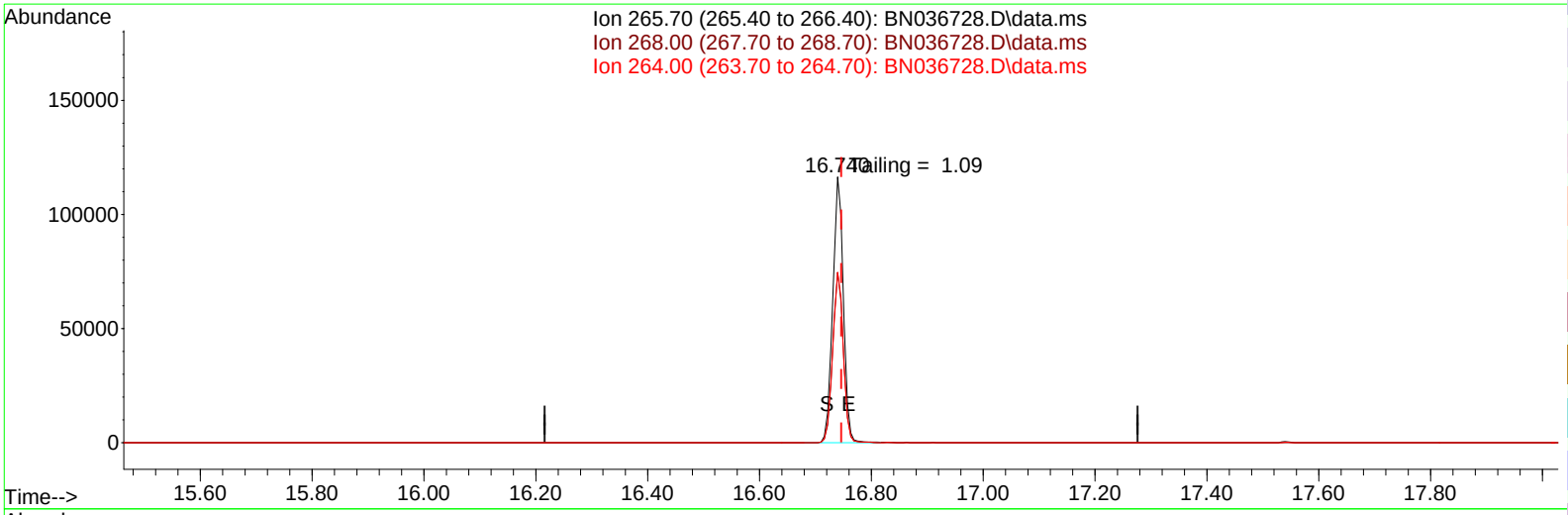
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2449

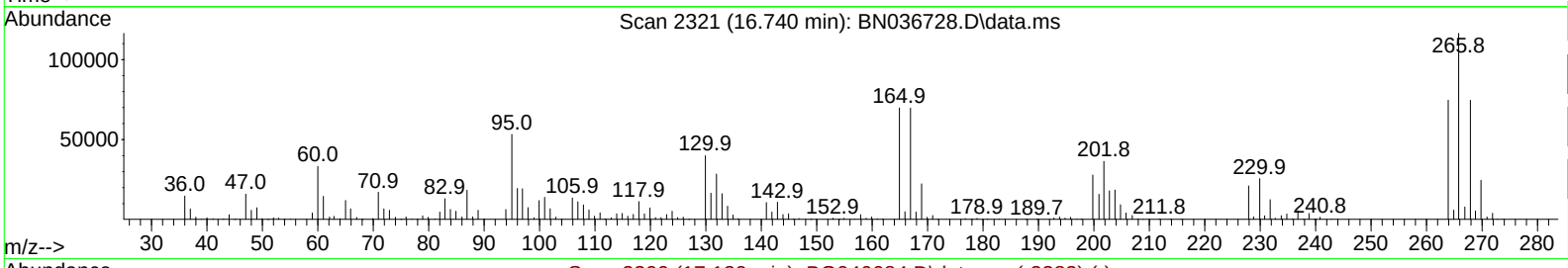
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.4	100301	PASS
68	69	0.00	2	1.4	1200	PASS
69	198	0.00	100	56.4	83945	PASS
70	69	0.00	2	1.4	1186	PASS
127	198	10	80	52.6	78248	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	148824	PASS
199	198	5	9	6.6	9881	PASS
275	198	10	60	24.3	36125	PASS
365	198	1	100	3.8	5714	PASS
441	198	0.01	100	7.8	11555	PASS
442	442	50	100	100.0	70779	PASS
443	442	15	24	19.5	13814	PASS

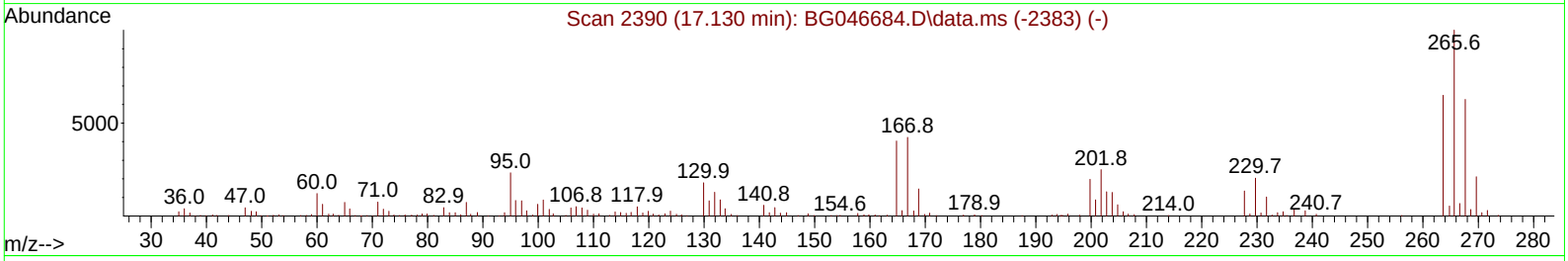
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036728.D
Acq On : 27 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 27 16:00:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration







TIC: BN036728.D\data.ms

(70) Pentachlorophenol (C)

16.740min (-0.006) 17975.64 ng

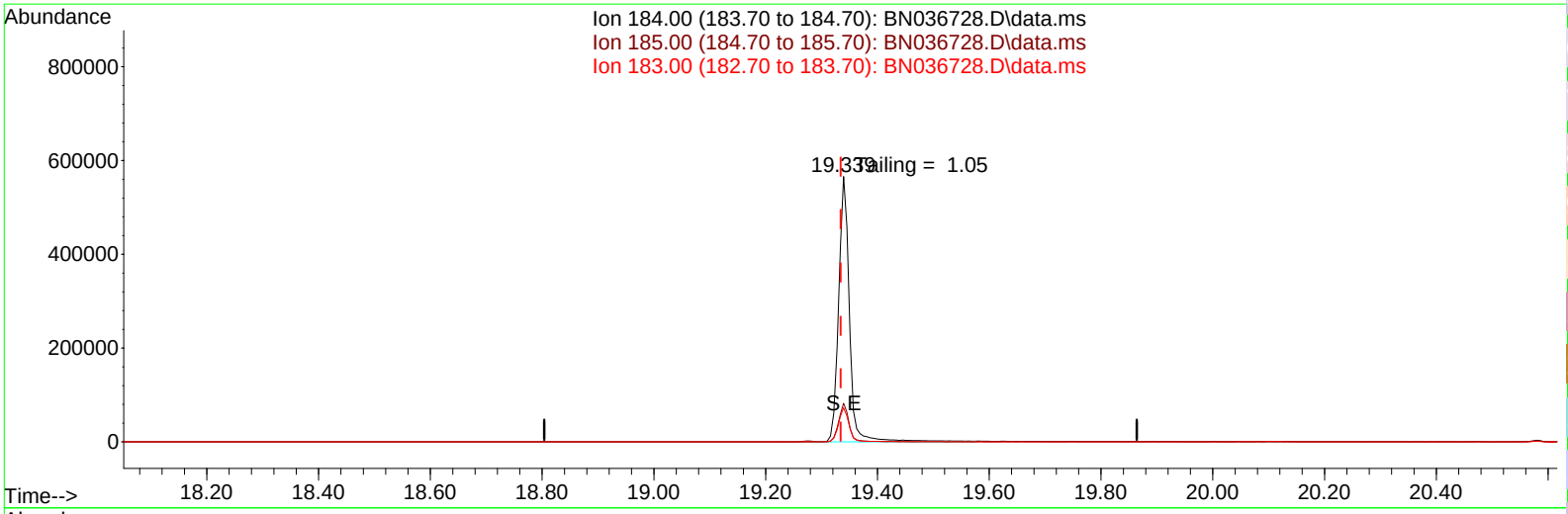
response 152777

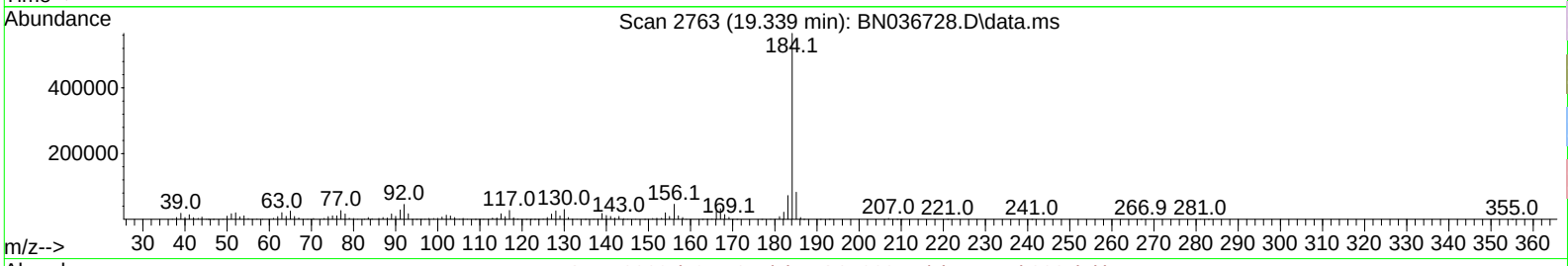
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.09
264.00	61.60	64.12
0.00	0.00	0.00

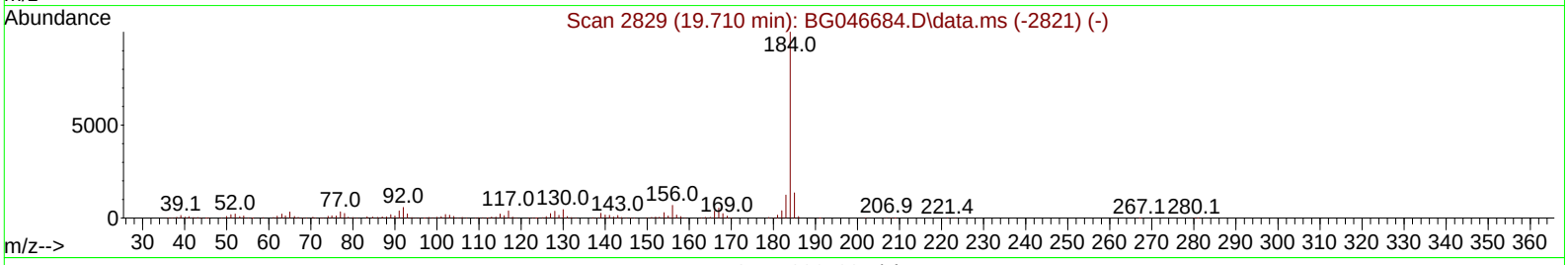
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036728.D
Acq On : 27 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 27 16:00:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration







TIC: BN036728.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 768035

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.55
183.00	13.20	12.81
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

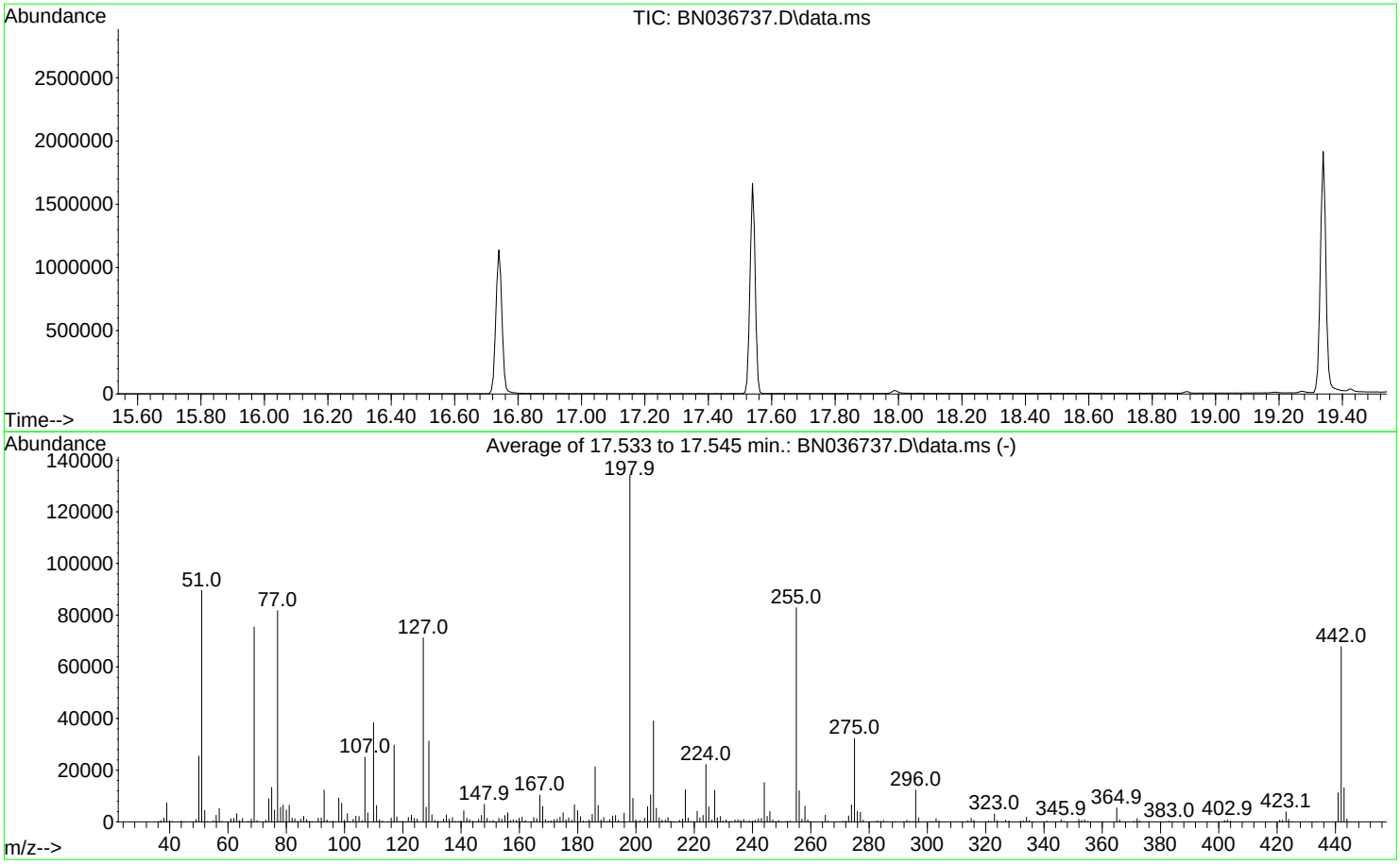
Date	Instrument Name	DFTPP Data File
3/27/2025	BNA_N	BN036728.D
Compound Name	**Response**	**Retention Time**
DDT	567441	20.581
DDD	8560	20.192
DDE	316	19.634
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
8876	576317	1.54

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036737.D
Acq On : 27 Mar 2025 14:38
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



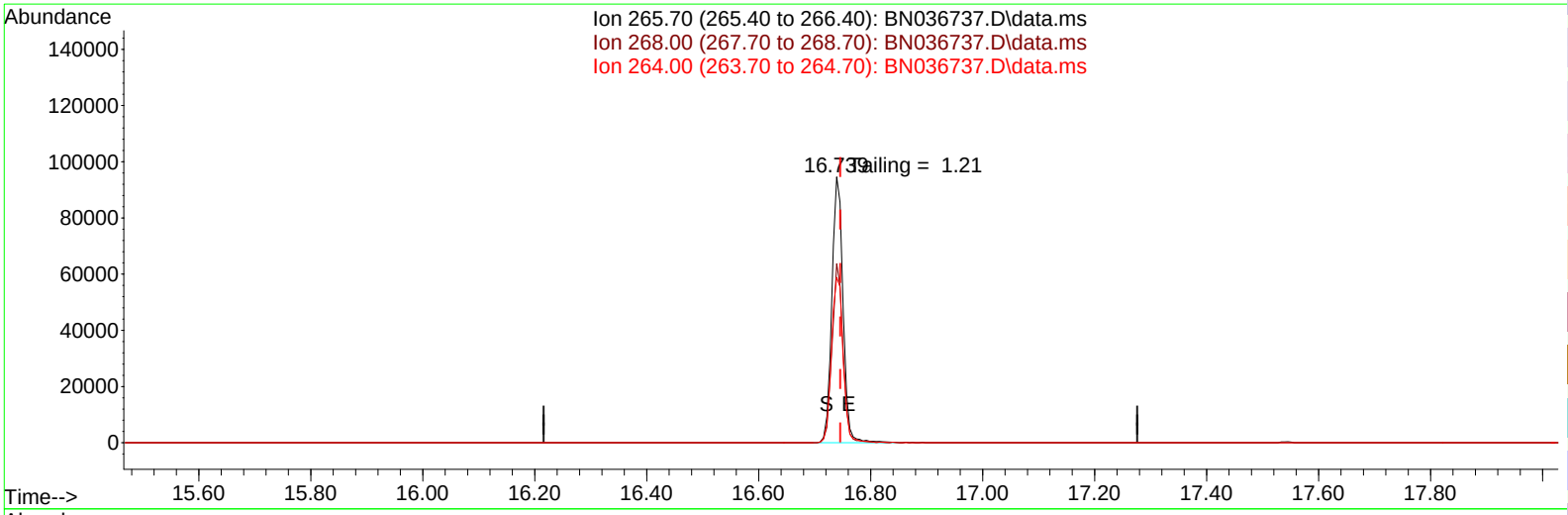
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2450

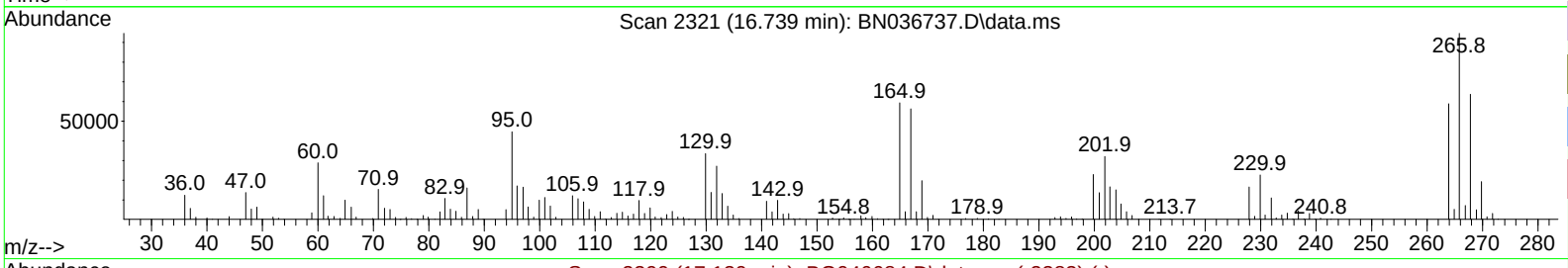
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	66.6	89520	PASS
68	69	0.00	2	1.4	1090	PASS
69	198	0.00	100	56.1	75413	PASS
70	69	0.00	2	0.6	451	PASS
127	198	10	80	53.0	71267	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	134472	PASS
199	198	5	9	6.8	9111	PASS
275	198	10	60	24.0	32293	PASS
365	198	1	100	4.0	5411	PASS
441	198	0.01	100	8.4	11249	PASS
442	442	50	100	100.0	67867	PASS
443	442	15	24	19.4	13200	PASS

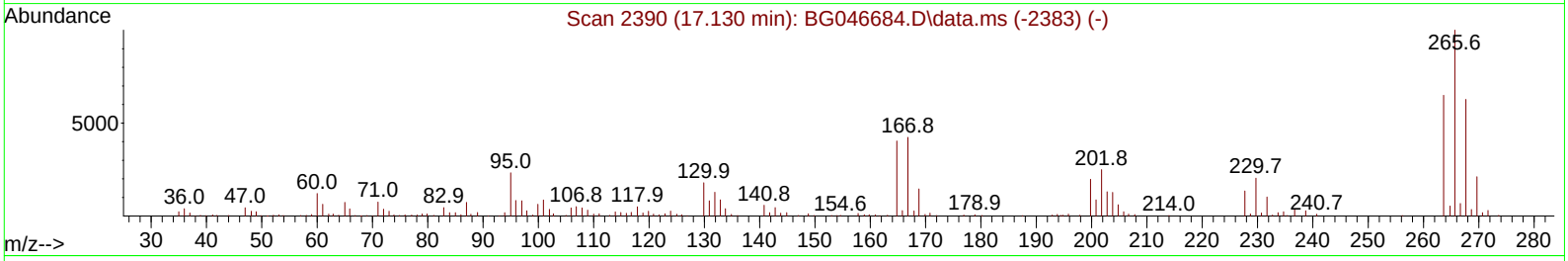
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036737.D
Acq On : 27 Mar 2025 14:38
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 27 16:20:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration







TIC: BN036737.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.007) 15615.32 ng

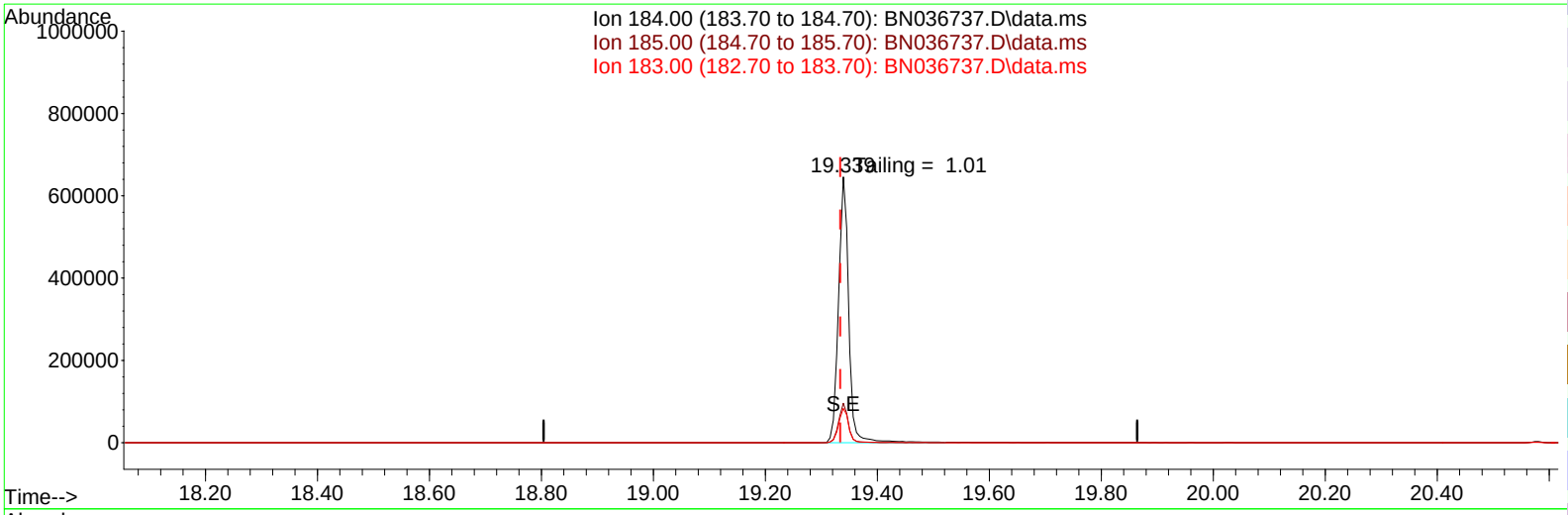
response 130388

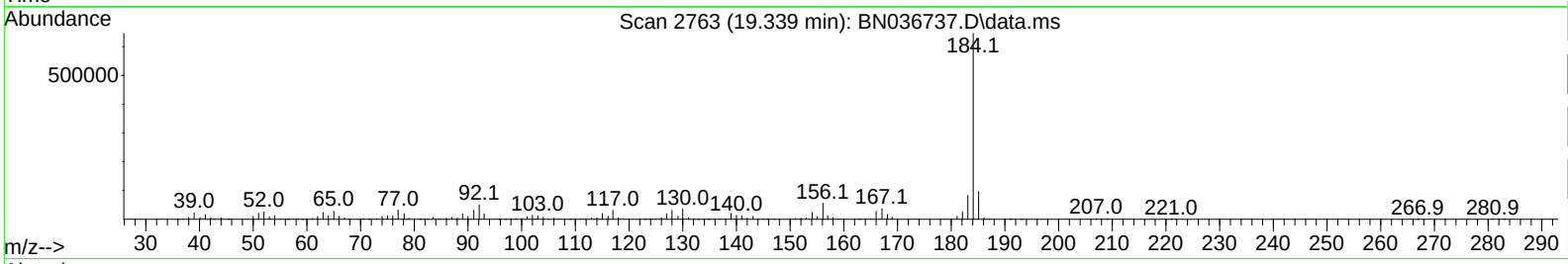
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.33
264.00	61.60	62.20
0.00	0.00	0.00

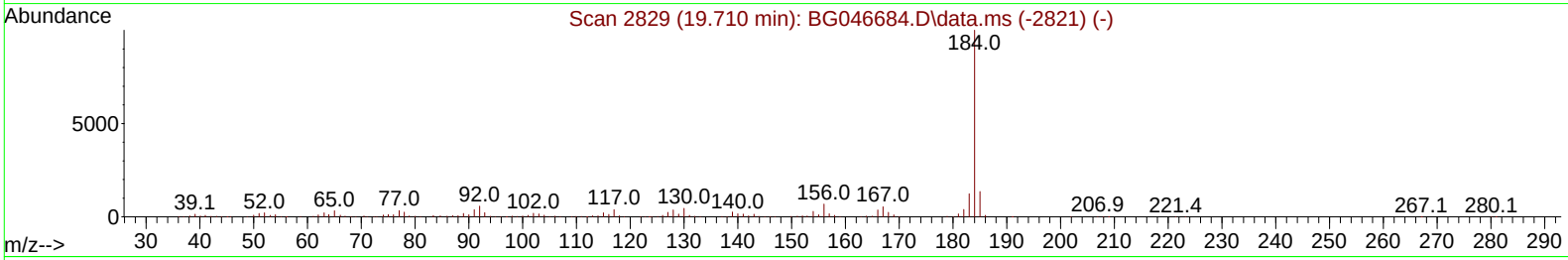
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036737.D
Acq On : 27 Mar 2025 14:38
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 27 16:20:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Mar 18 01:27:23 2025
Response via : Initial Calibration







TIC: BN036737.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 821801

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.84
183.00	13.20	12.88
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

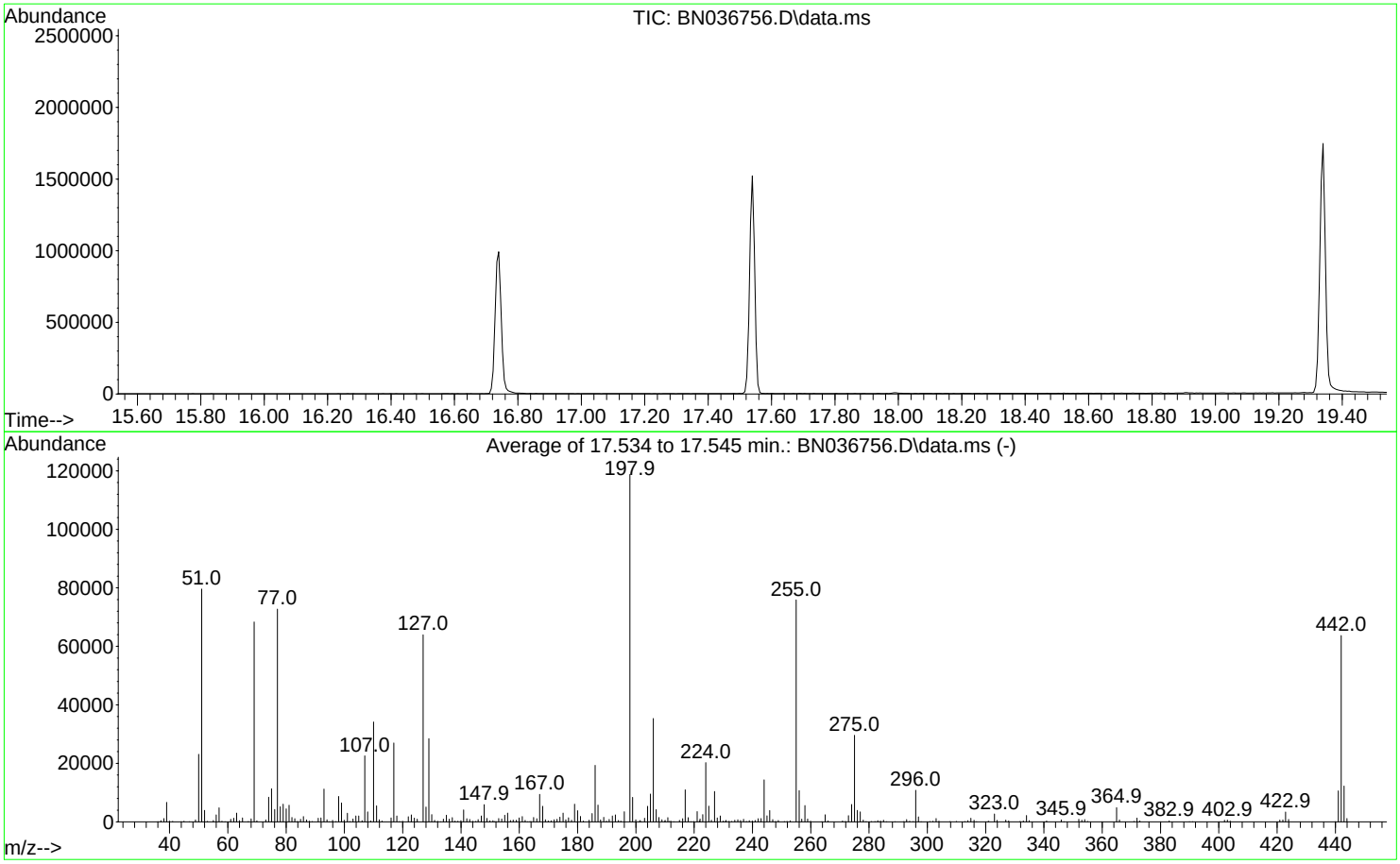
Date	Instrument Name	DFTPP Data File
3/27/2025	BNA_N	BN036737.D
Compound Name	**Response**	**Retention Time**
DDT	502438	20.58
DDD	5610	20.186
DDE	360	19.627
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5970	508408	1.17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

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



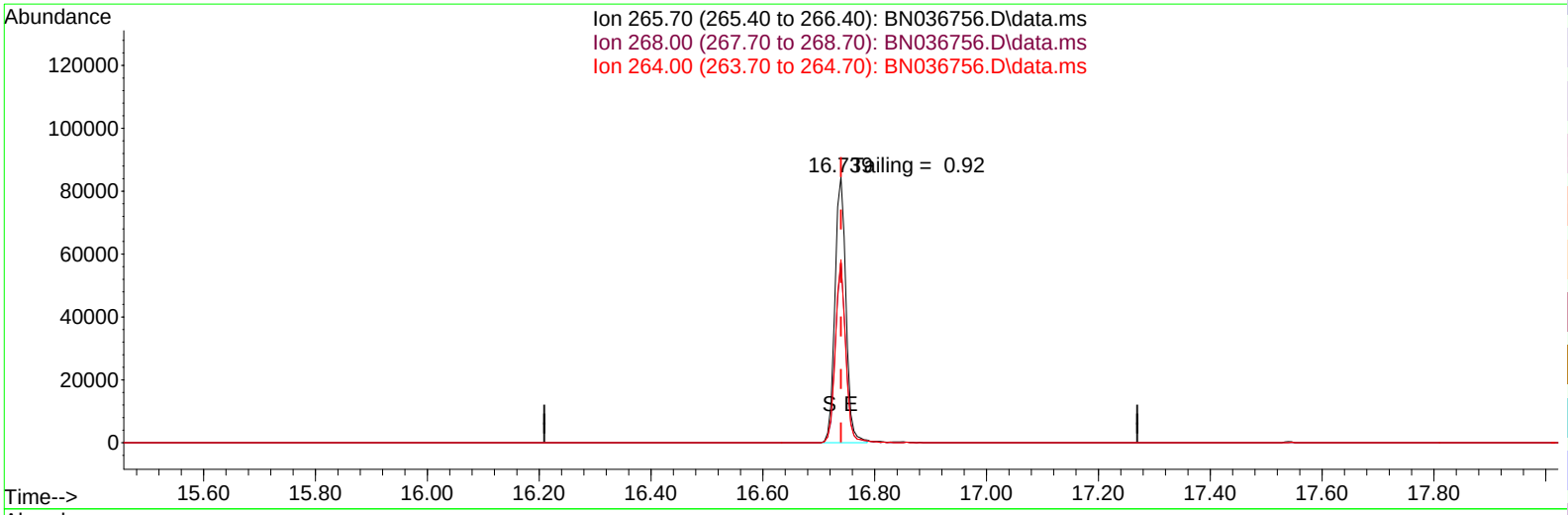
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2450

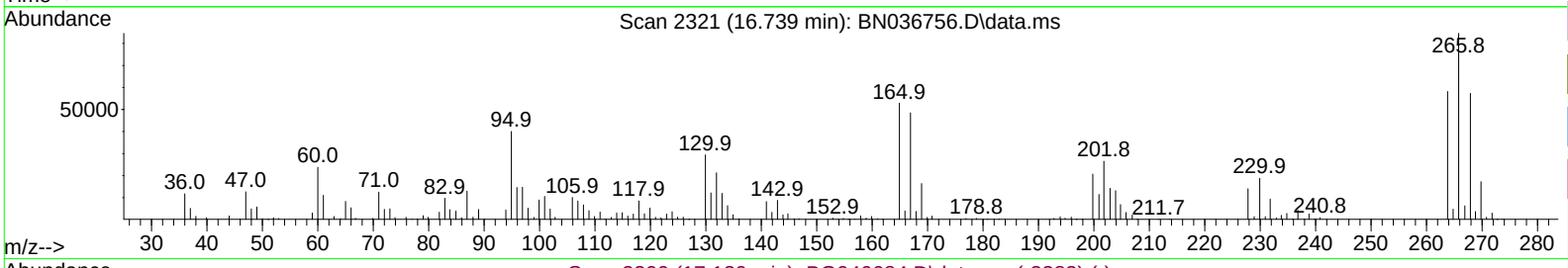
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.0	79608	PASS
68	69	0.00	2	1.5	1020	PASS
69	198	0.00	100	57.5	68325	PASS
70	69	0.00	2	0.5	357	PASS
127	198	10	80	53.9	63944	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	118744	PASS
199	198	5	9	7.1	8386	PASS
275	198	10	60	24.9	29595	PASS
365	198	1	100	4.1	4858	PASS
441	198	0.01	100	8.9	10582	PASS
442	442	50	100	100.0	63691	PASS
443	442	15	24	19.2	12256	PASS

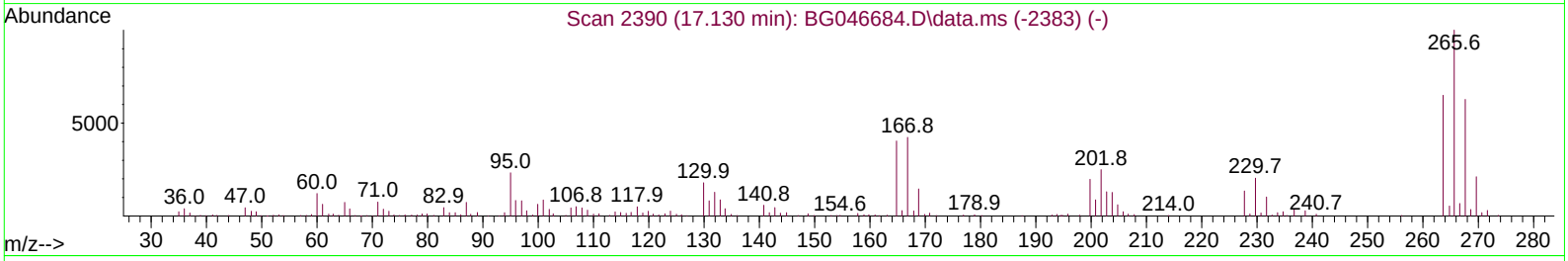
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 28 05:40:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 28 05:40:24 2025
Response via : Initial Calibration







TIC: BN036756.D\data.ms

(70) Pentachlorophenol (C)

16.739min (0.000) 15913.57 ng

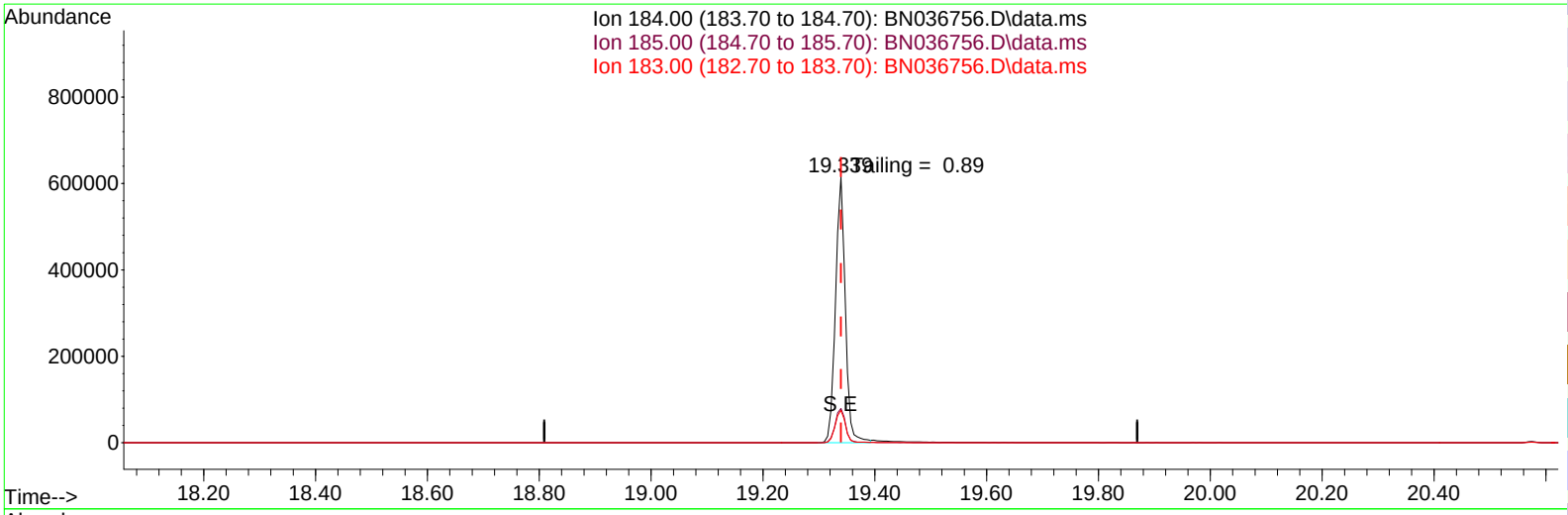
response 116893

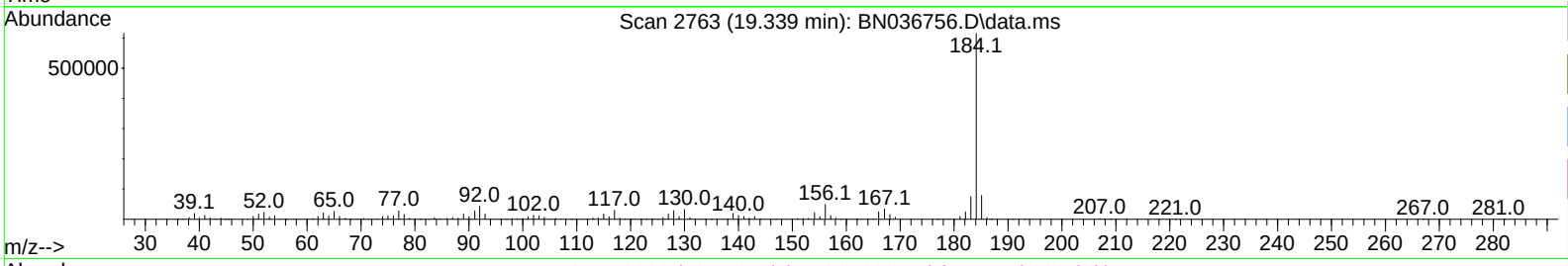
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.77
264.00	61.60	68.86
0.00	0.00	0.00

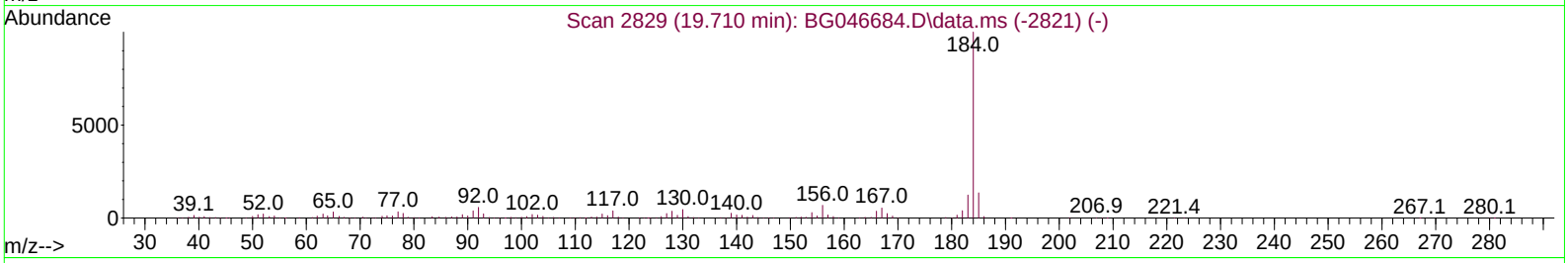
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 28 05:40:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 28 05:40:24 2025
Response via : Initial Calibration







TIC: BN036756.D\data.ms

(77) Benzidine

19.339min (0.000) 0.00 ng

response 762967

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.92
183.00	13.20	12.18
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

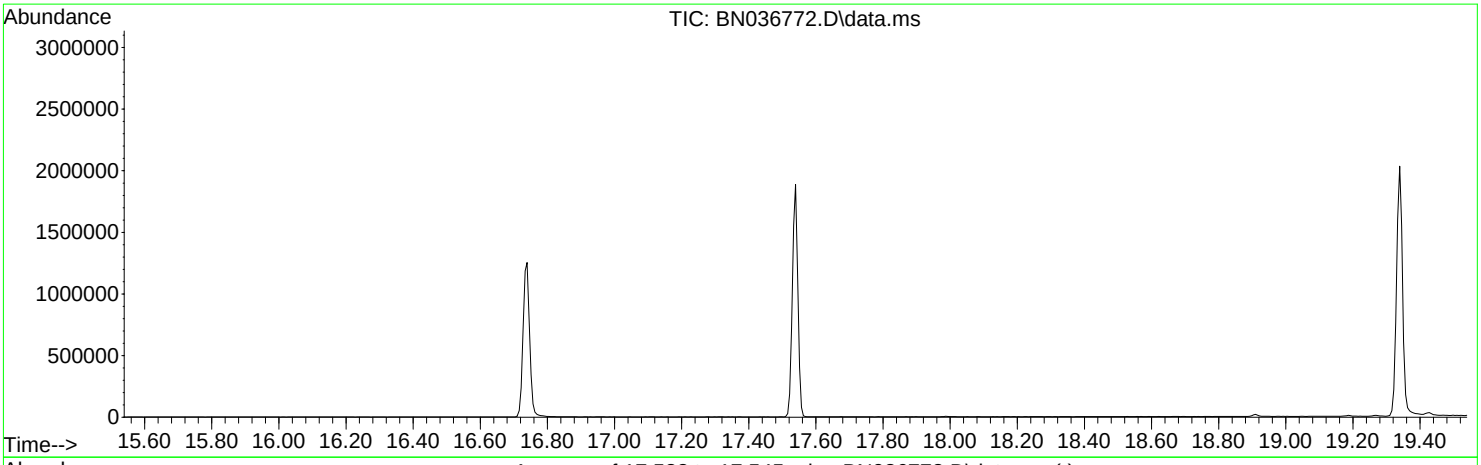
Date	Instrument Name	DFTPP Data File
3/27/2025	BNA_N	BN036756.D
Compound Name	**Response**	**Retention Time**
DDT	412653	20.575
DDD	5613	20.186
DDE	207	19.633
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5820	418473	1.39

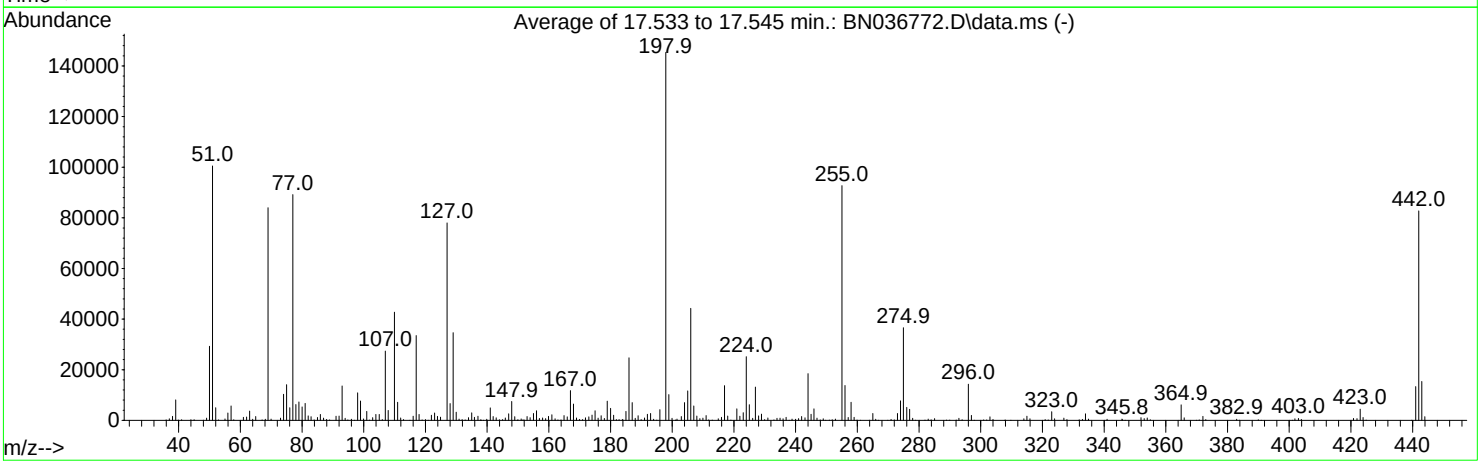
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036772.D
Acq On : 28 Mar 2025 14:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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





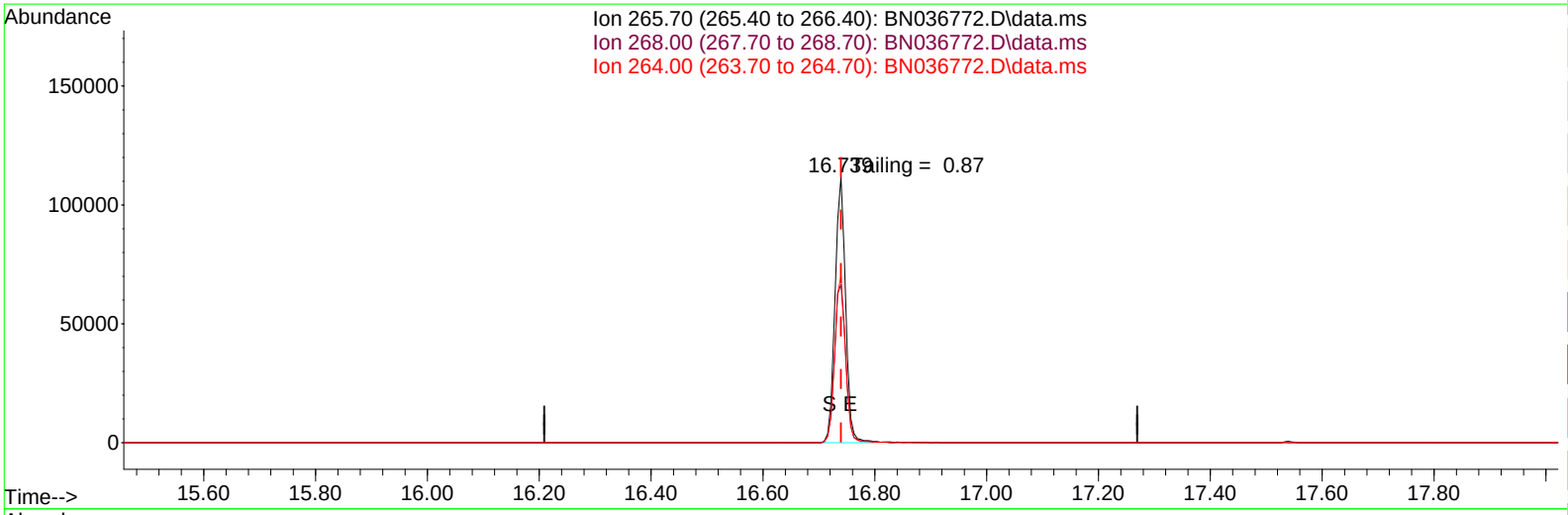
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2449

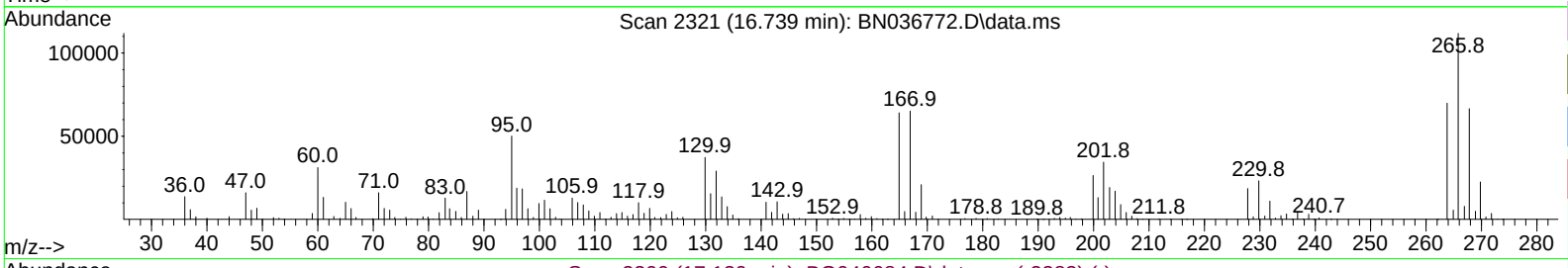
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	69.1	100475	PASS
68	69	0.00	2	0.6	462	PASS
69	198	0.00	100	57.8	83976	PASS
70	69	0.00	2	0.6	512	PASS
127	198	10	80	53.7	77968	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	145304	PASS
199	198	5	9	7.0	10186	PASS
275	198	10	60	25.2	36616	PASS
365	198	1	100	4.2	6164	PASS
441	198	0.01	100	9.2	13373	PASS
442	442	50	100	100.0	82744	PASS
443	442	15	24	18.6	15354	PASS

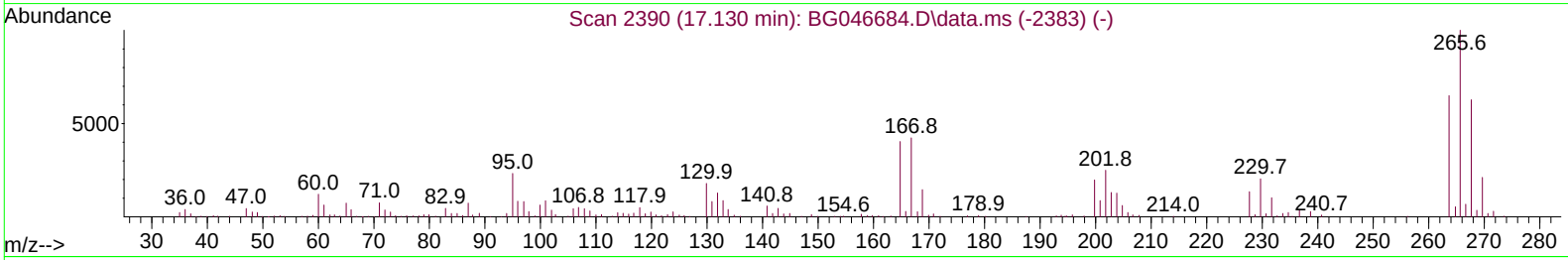
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036772.D
Acq On : 28 Mar 2025 14:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 29 04:37:09 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 29 04:33:53 2025
Response via : Initial Calibration







TIC: BN036772.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.000) 17915.55 ng

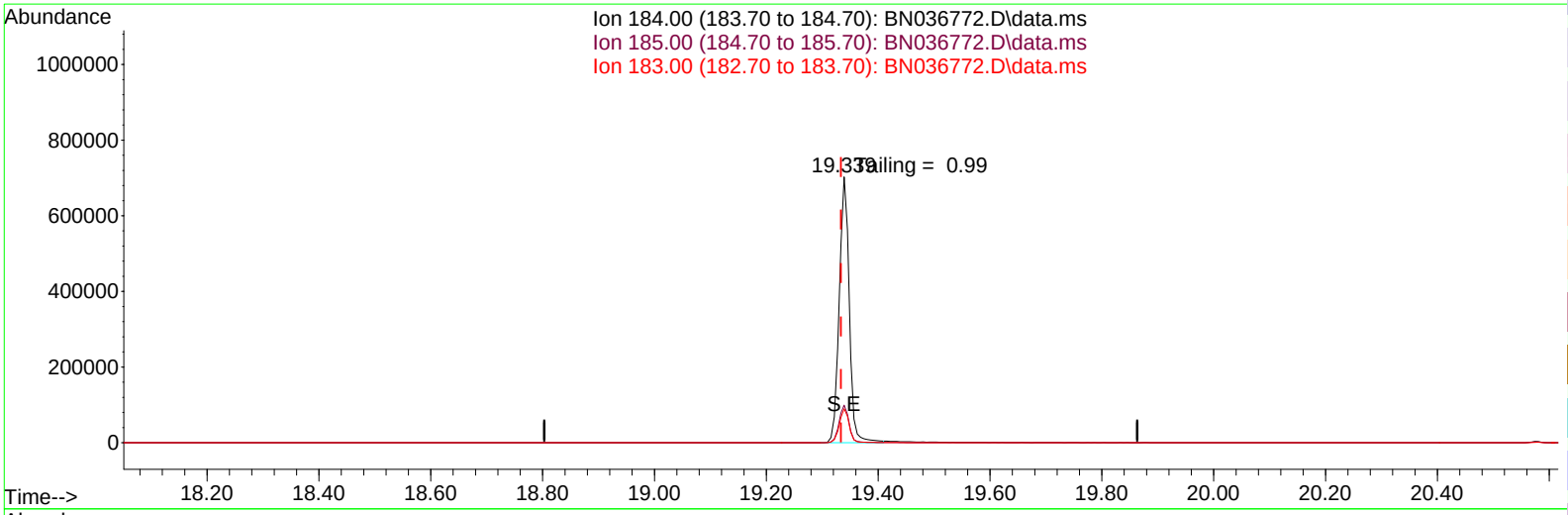
response 146783

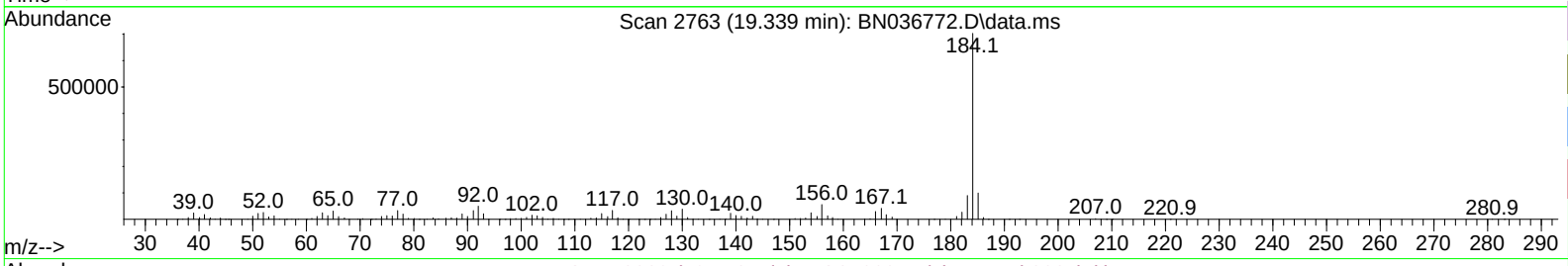
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.53
264.00	61.60	62.53
0.00	0.00	0.00

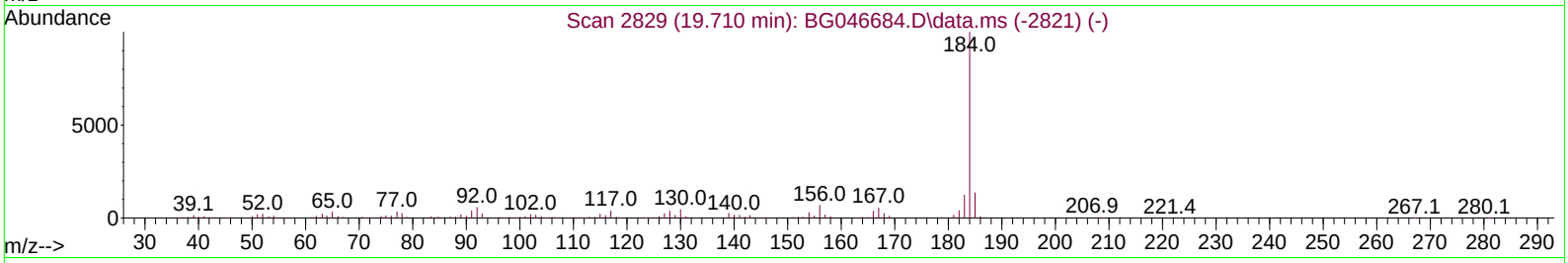
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036772.D
Acq On : 28 Mar 2025 14:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 29 04:37:09 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 29 04:33:53 2025
Response via : Initial Calibration







TIC: BN036772.D\data.ms

(77) Benzidine

19.339min (+ 0.006) 0.00 ng

response 891011

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.12
183.00	13.20	12.76
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/28/2025	BNA_N	BN036772.D
Compound Name	**Response**	**Retention Time**
DDT	540432	20.58
DDD	6839	20.186
DDE	318	19.627
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7157	547589	1.31

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB167232BL	SDG No.:	Q1608
Lab Sample ID:	PB167232BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036730.D	1	03/20/25 10:49	03/27/25 10:25	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2380	7.703				
1146-65-2	Naphthalene-d8	5330	10.488				
15067-26-2	Acenaphthene-d10	2980	14.345				
1517-22-2	Phenanthrene-d10	6220	17.087				
1719-03-5	Chrysene-d12	4810	21.277				
1520-96-3	Perylene-d12	4140	23.525				

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\BN032725\
Data File : BN036730.D
Acq On : 27 Mar 2025 10:25
Operator : RC/JU
Sample : PB167232BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Quant Time: Mar 27 11:26:34 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

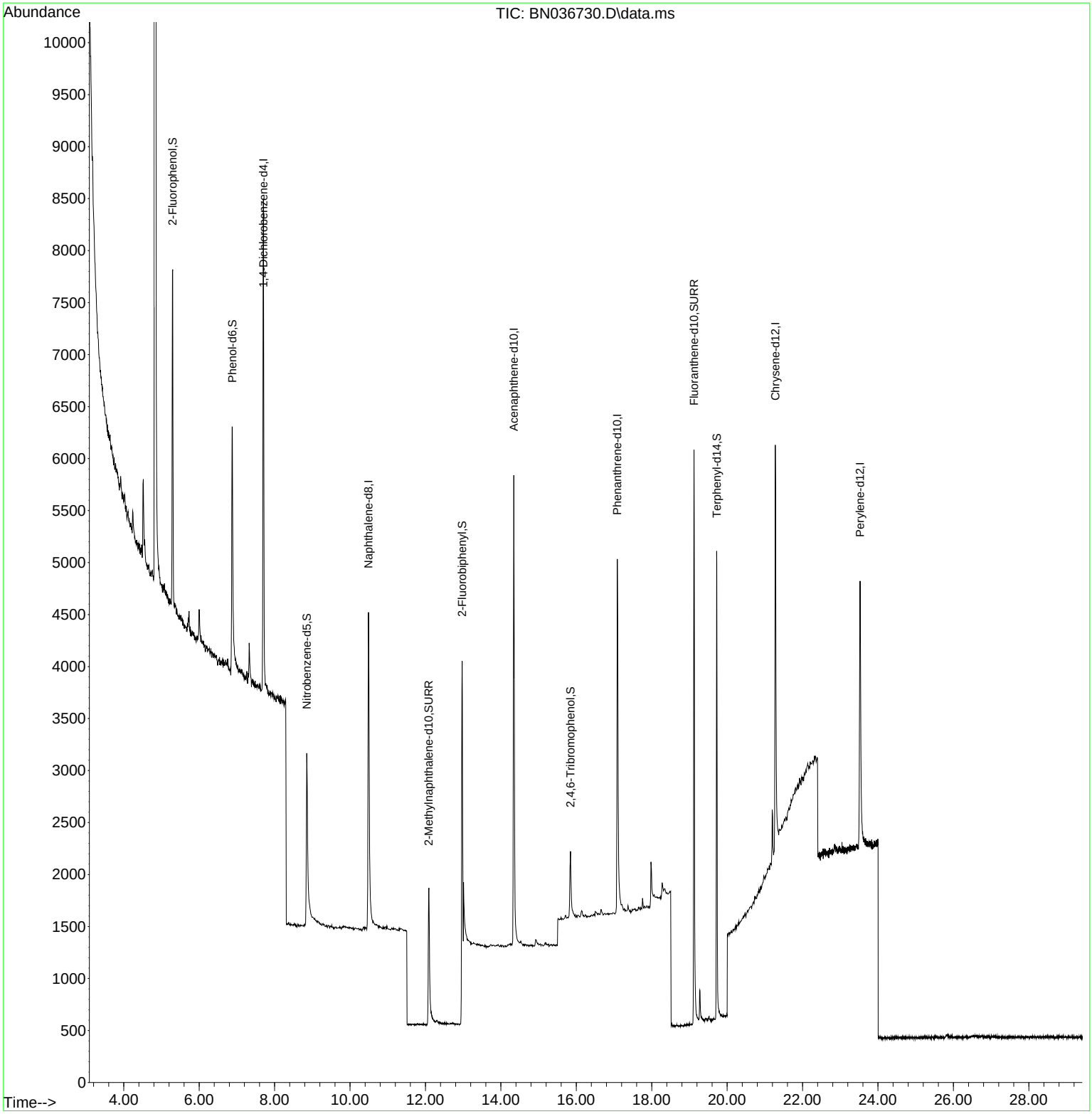
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	2375	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	5327	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2983	0.400	ng	-0.02
19) Phenanthrene-d10	17.087	188	6223	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4811	0.400	ng	-0.02
35) Perylene-d12	23.525	264	4142	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	2395	0.433	ng	-0.01
5) Phenol-d6	6.880	99	2687	0.393	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1990	0.343	ng	-0.02
11) 2-Methylnaphthalene-d10	12.086	152	2757	0.348	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	477	0.352	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	6168	0.355	ng	-0.01
27) Fluoranthene-d10	19.123	212	6618	0.415	ng	-0.02
31) Terphenyl-d14	19.727	244	4691	0.407	ng	-0.02
Target Compounds						Qvalue

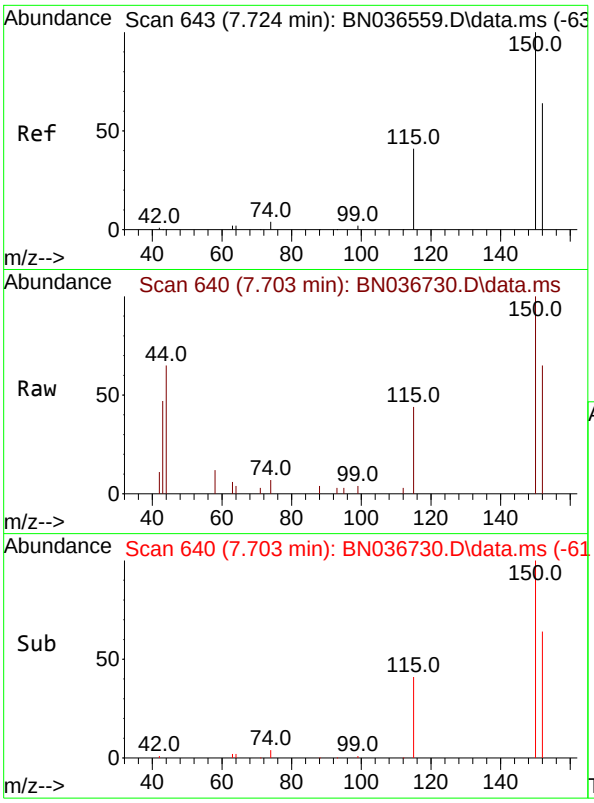
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036730.D
Acq On : 27 Mar 2025 10:25
Operator : RC/JU
Sample : PB167232BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Quant Time: Mar 27 11:26:34 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



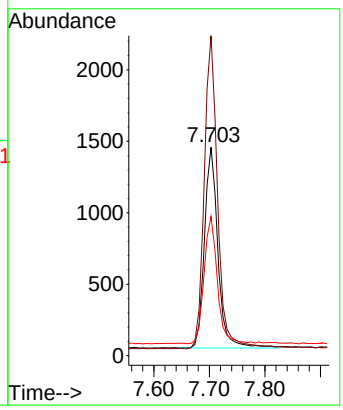


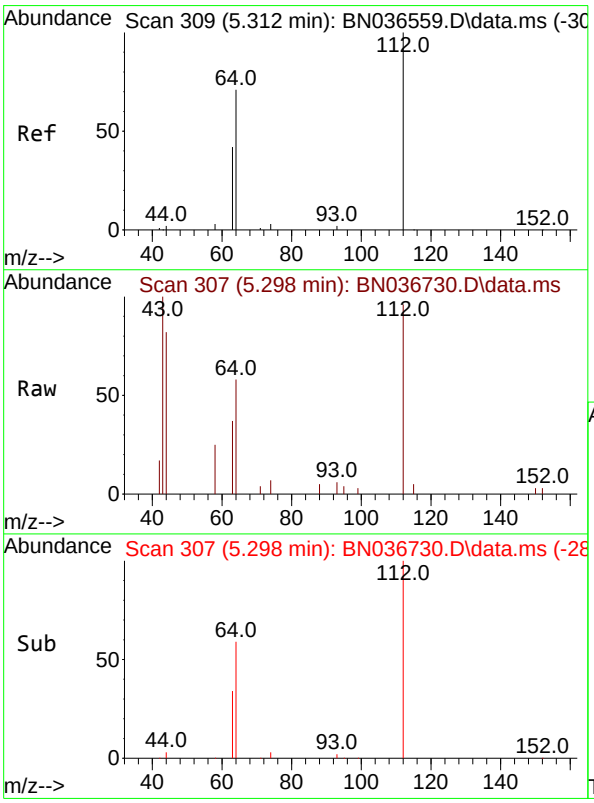
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Tgt Ion:152 Resp: 2375

Ion	Ratio	Lower	Upper
152	100		
150	153.5	123.7	185.5
115	66.8	54.3	81.5

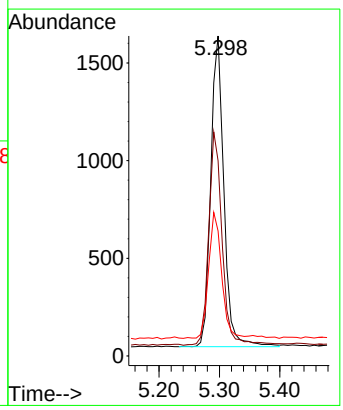


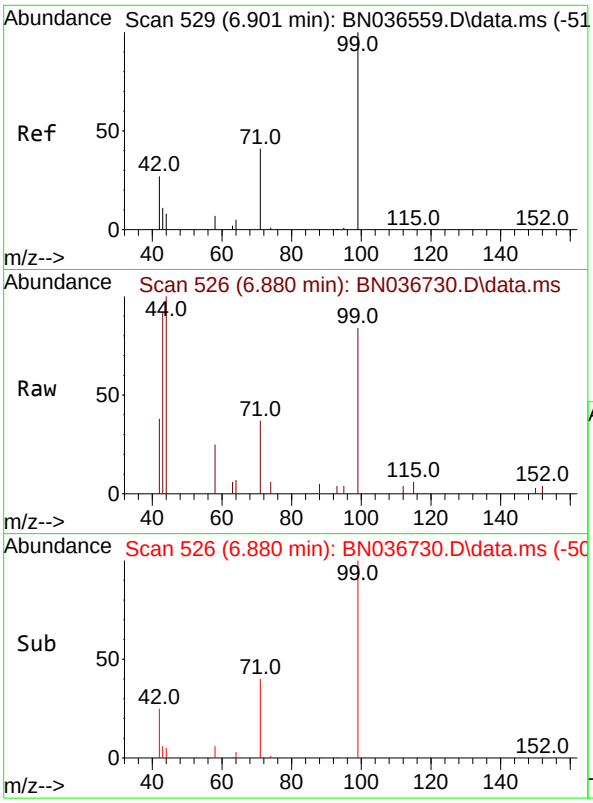


#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.014 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Tgt Ion:112 Resp: 2395

Ion	Ratio	Lower	Upper
112	100		
64	70.5	53.1	79.7
63	40.3	31.8	47.8



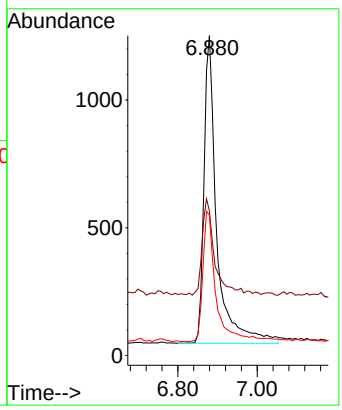


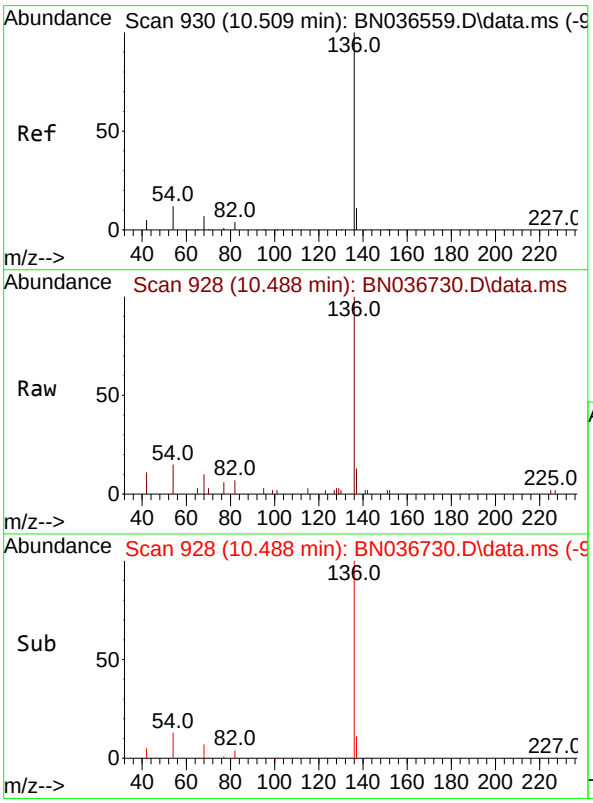
#5
Phenol-d6
Concen: 0.393 ng
RT: 6.880 min Scan# 5
Delta R.T. -0.021 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Tgt Ion: 99 Resp: 2687

Ion	Ratio	Lower	Upper
99	100		
42	31.3	26.5	39.7
71	43.5	34.1	51.1

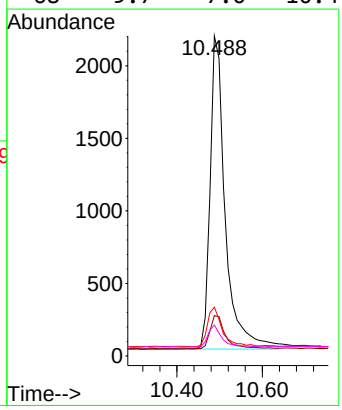


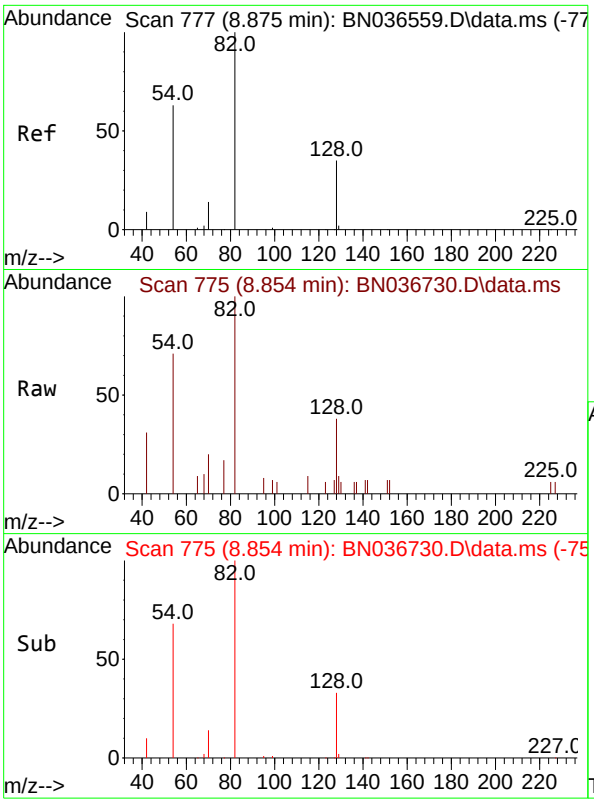


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Tgt Ion:136 Resp: 5327

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	15.3	11.5	17.3
68	9.7	7.0	10.4



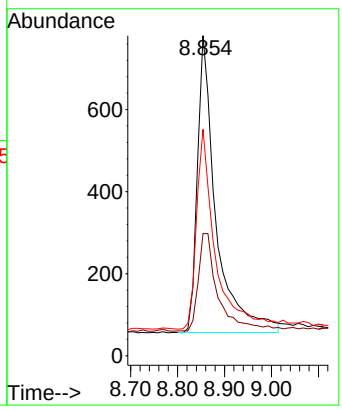


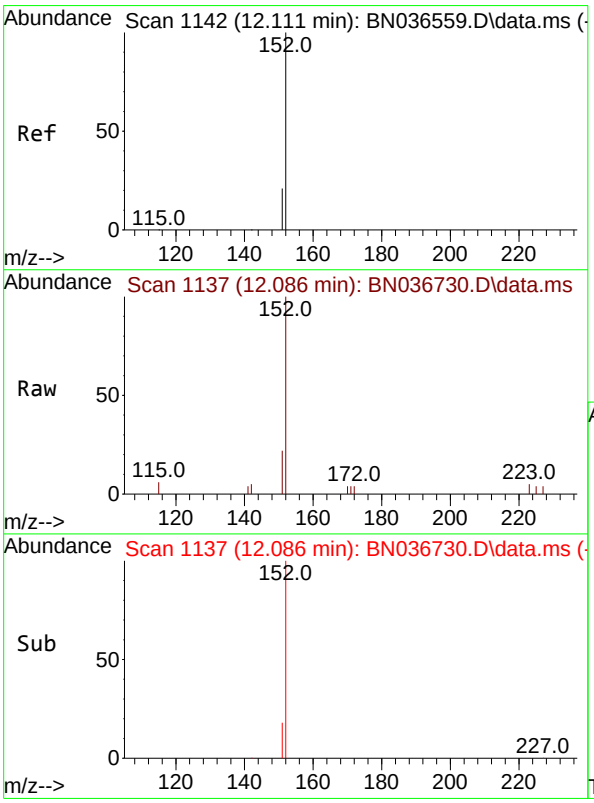
#8
Nitrobenzene-d5
Concen: 0.343 ng
RT: 8.854 min Scan# 7
Delta R.T. -0.021 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Tgt Ion: 82 Resp: 1990

Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	70.8	52.2	78.4

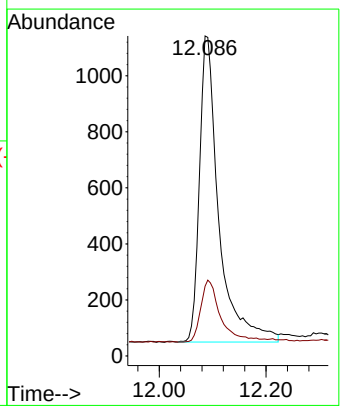


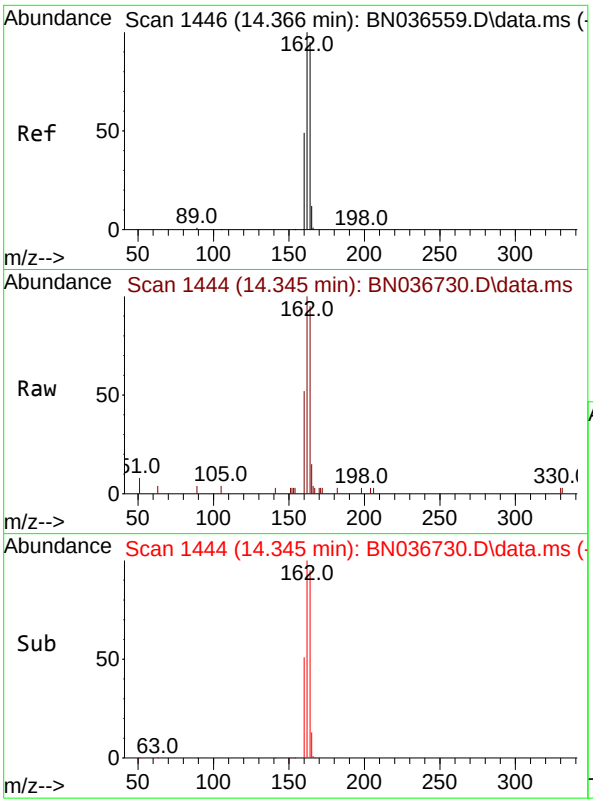


#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.025 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Tgt Ion:152 Resp: 2757

Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.0	25.6



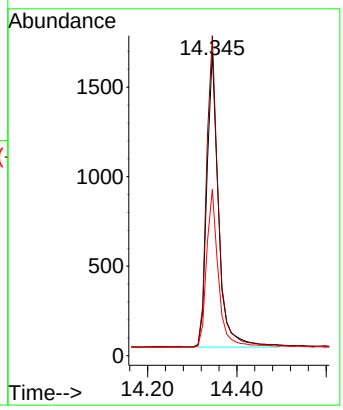


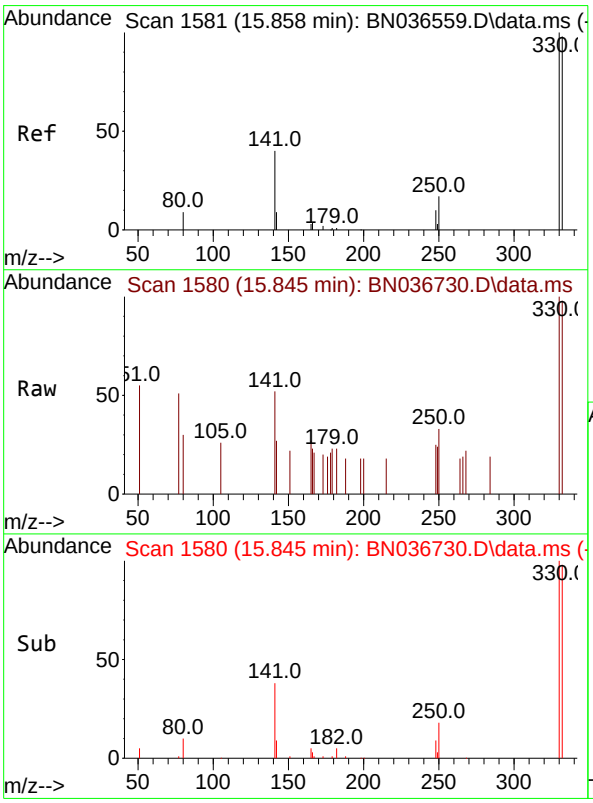
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Tgt Ion:164 Resp: 2983

Ion	Ratio	Lower	Upper
164	100		
162	105.4	84.2	126.2
160	54.8	42.2	63.2

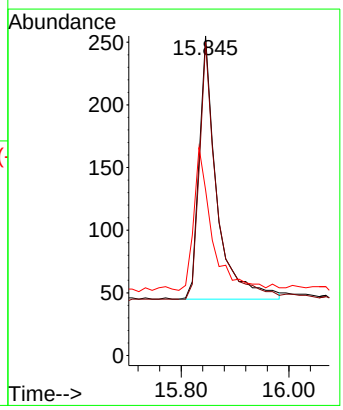


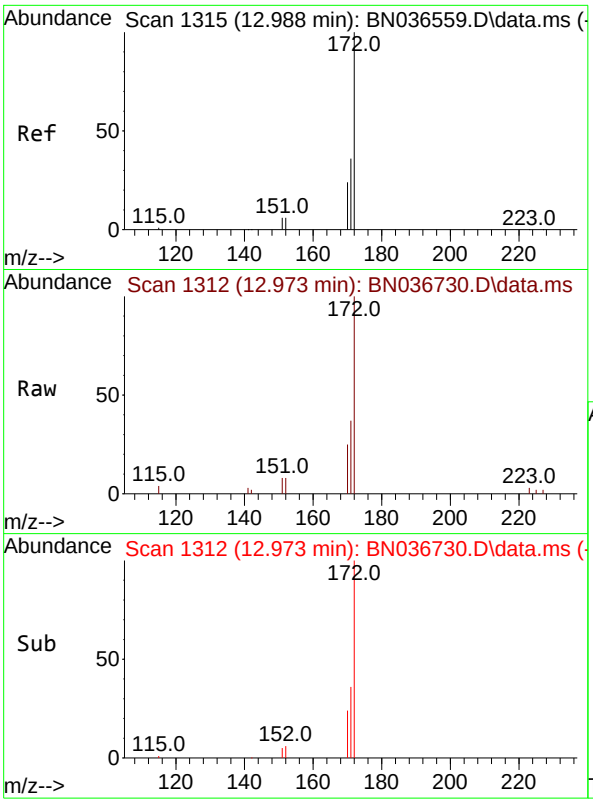


#14
2,4,6-Tribromophenol
Concen: 0.352 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Tgt Ion:330 Resp: 477

Ion	Ratio	Lower	Upper
330	100		
332	96.4	75.2	112.8
141	56.6	43.4	65.2



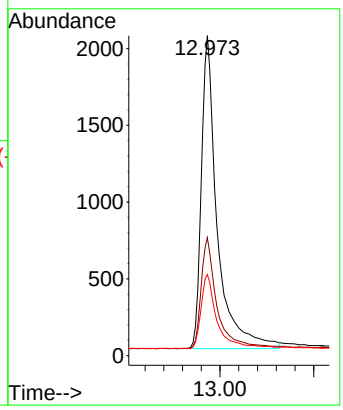


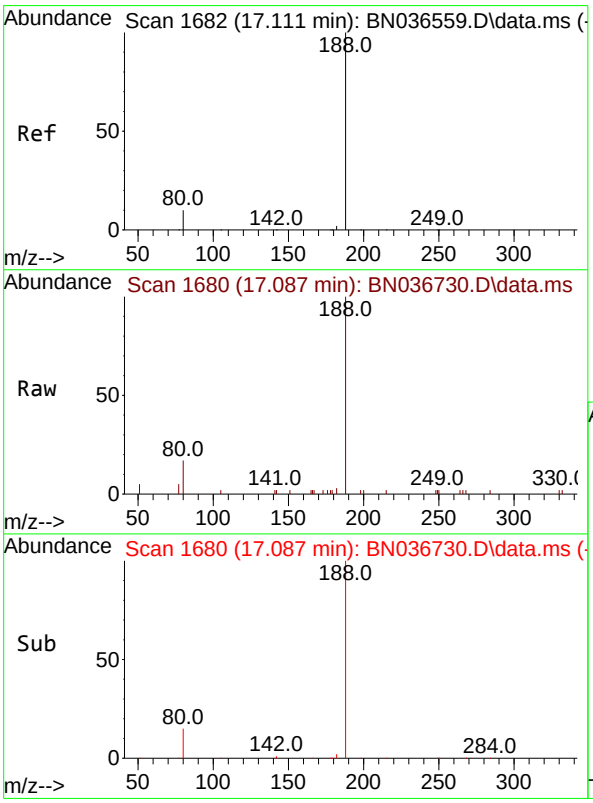
#15
2-Fluorobiphenyl
Concen: 0.355 ng
RT: 12.973 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Tgt Ion:172 Resp: 6168

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

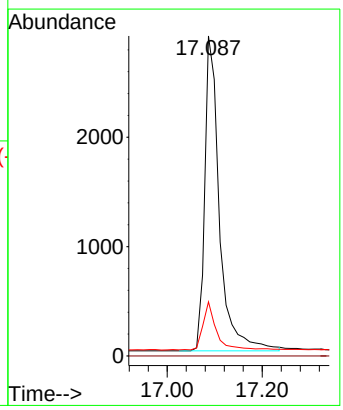


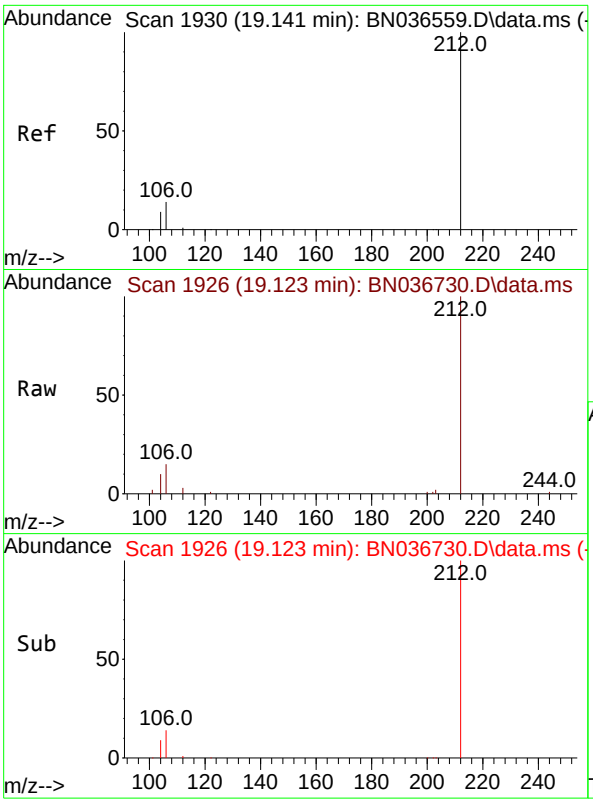


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Tgt Ion:188 Resp: 6223

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.9	8.8	13.2#



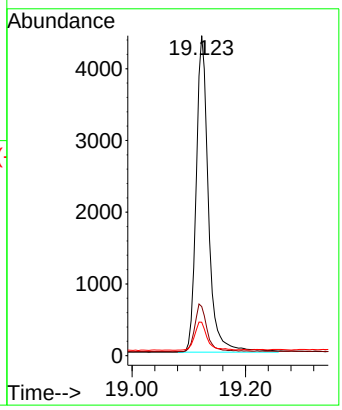


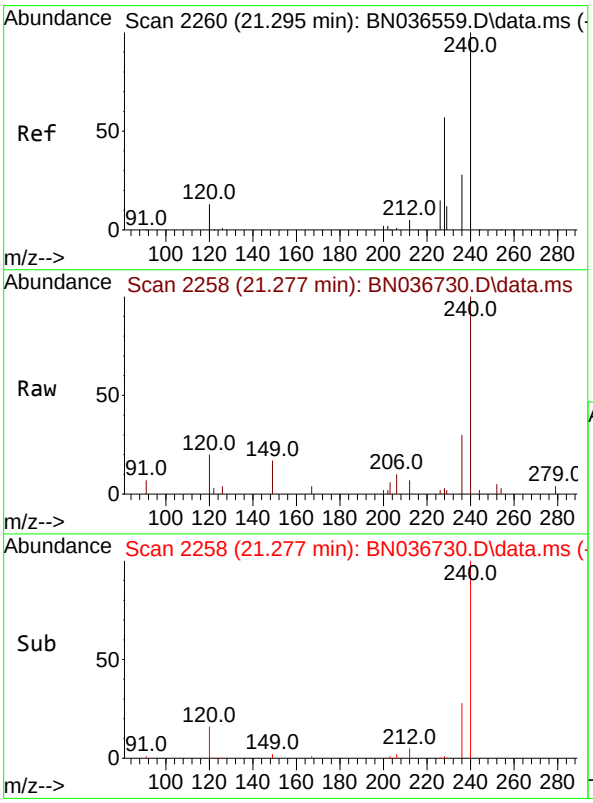
#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.123 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Tgt Ion:212 Resp: 6618

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

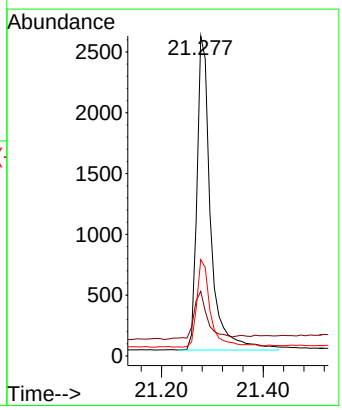


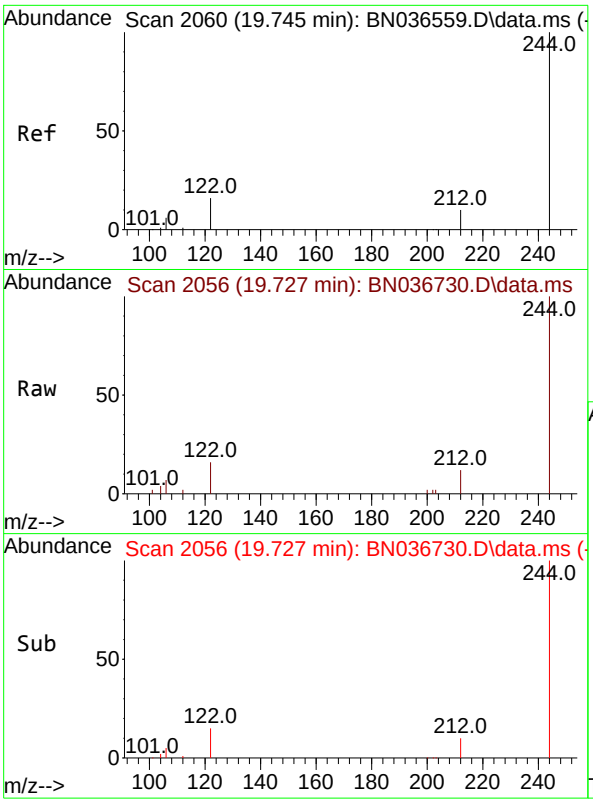


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Tgt Ion:240 Resp: 4811

Ion	Ratio	Lower	Upper
240	100		
120	20.2	14.6	22.0
236	30.1	24.1	36.1



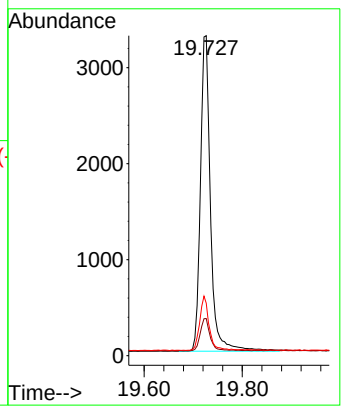


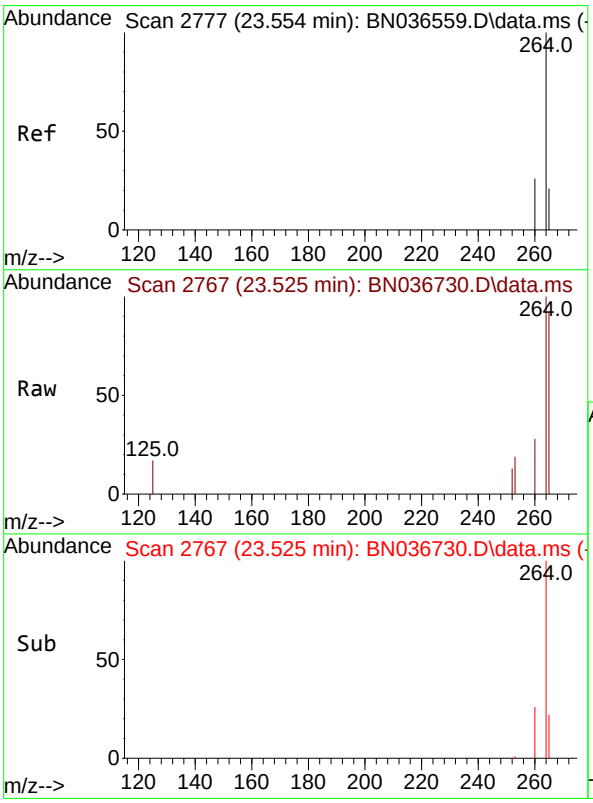
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.727 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Instrument :
BNA_N
ClientSampleId :
PB167232BL

Tgt Ion:244 Resp: 4691

Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.6	14.4
122	16.4	13.9	20.9

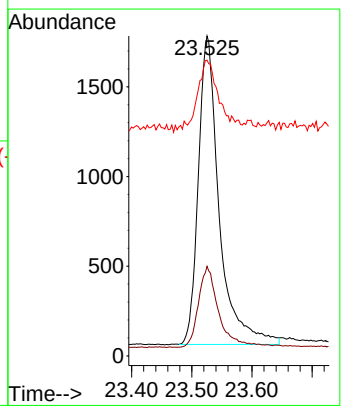




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2767
Delta R.T. -0.029 min
Lab File: BN036730.D
Acq: 27 Mar 2025 10:25

Tgt Ion:264 Resp: 4142

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.6	33.8
265	92.4	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:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB167251BL	SDG No.:	Q1608
Lab Sample ID:	PB167251BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036739.D	1	03/21/25 08:40	03/27/25 16:14	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1360	7.703				
1146-65-2	Naphthalene-d8	2890	10.498				
15067-26-2	Acenaphthene-d10	1700	14.356				
1517-22-2	Phenanthrene-d10	3700	17.099				
1719-03-5	Chrysene-d12	3170	21.286				
1520-96-3	Perylene-d12	2690	23.531				

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\BN032725\
Data File : BN036739.D
Acq On : 27 Mar 2025 16:14
Operator : RC/JU
Sample : PB167251BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Quant Time: Mar 27 17:12:39 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

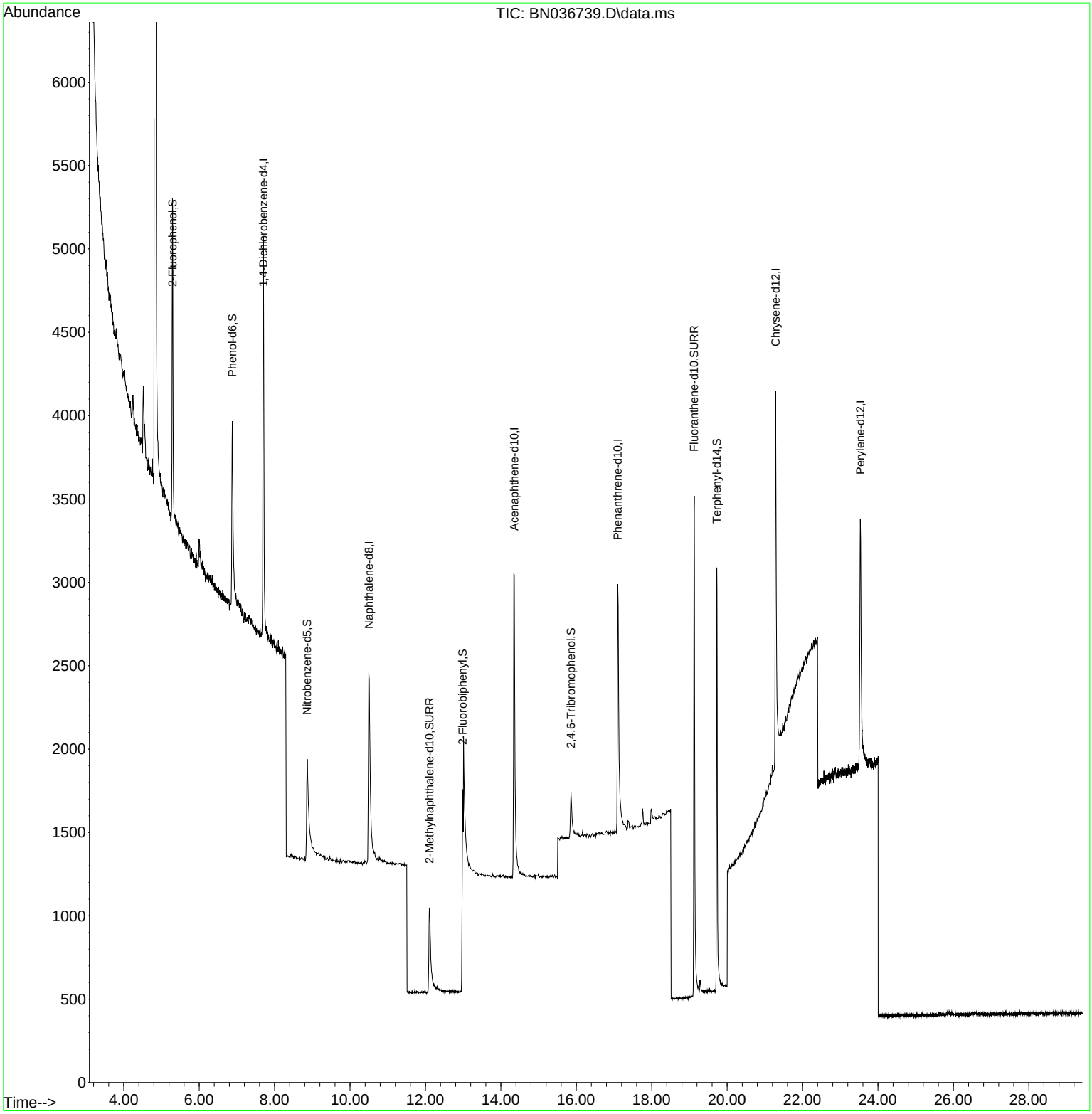
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1359	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	2889	0.400	ng	#-0.01
13) Acenaphthene-d10	14.356	164	1699	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3701	0.400	ng	#-0.01
29) Chrysene-d12	21.286	240	3168	0.400	ng	0.00
35) Perylene-d12	23.531	264	2693	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	1476	0.466	ng	-0.01
5) Phenol-d6	6.879	99	1499	0.383	ng	-0.02
8) Nitrobenzene-d5	8.865	82	1121	0.357	ng	-0.01
11) 2-Methylnaphthalene-d10	12.106	152	1588	0.370	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	269	0.349	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	3011	0.305	ng	0.00
27) Fluoranthene-d10	19.127	212	4373	0.461	ng	-0.01
31) Terphenyl-d14	19.726	244	3057	0.403	ng	-0.02
Target Compounds						Qvalue

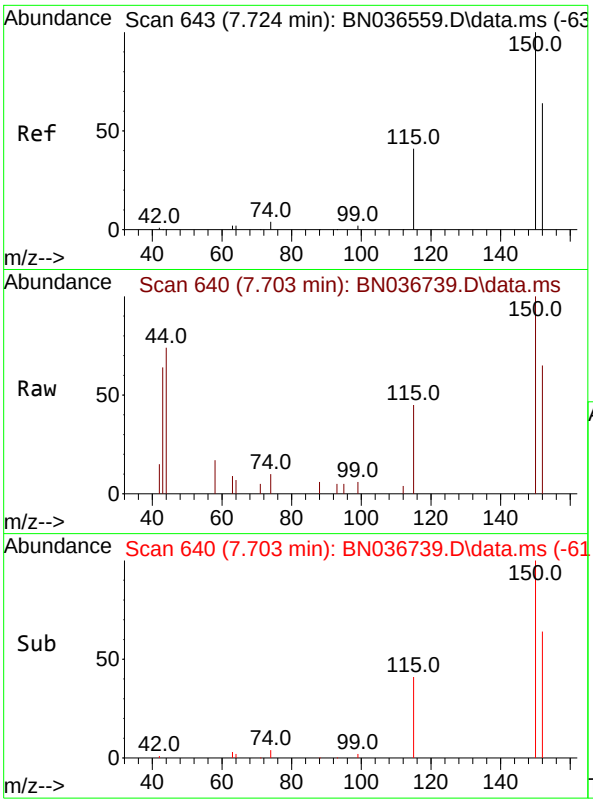
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036739.D
Acq On : 27 Mar 2025 16:14
Operator : RC/JU
Sample : PB167251BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Quant Time: Mar 27 17:12:39 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



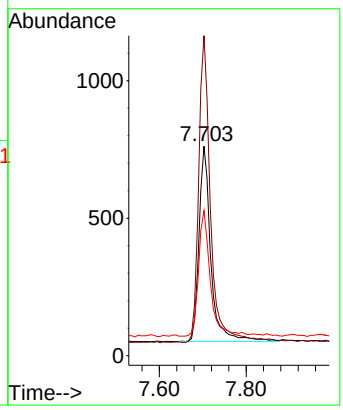


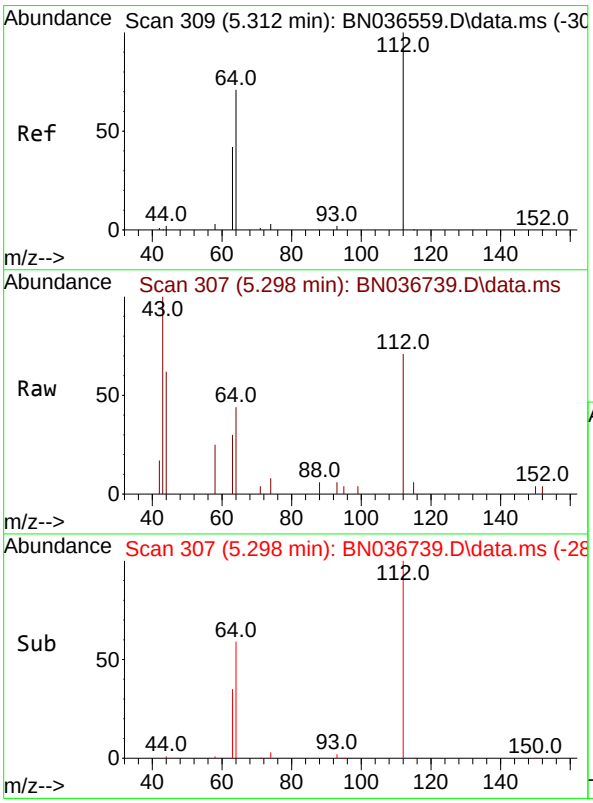
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Tgt Ion:152 Resp: 1359

Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.7	185.5
115	69.3	54.3	81.5

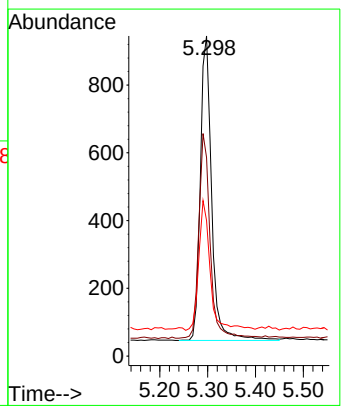


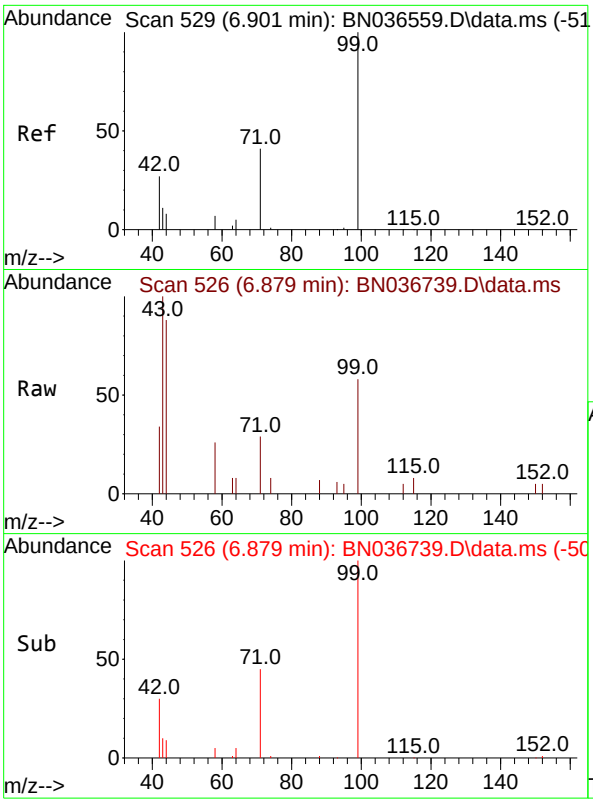


#4
2-Fluorophenol
Concen: 0.466 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.014 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Tgt Ion:112 Resp: 1476

Ion	Ratio	Lower	Upper
112	100		
64	66.7	53.1	79.7
63	43.2	31.8	47.8



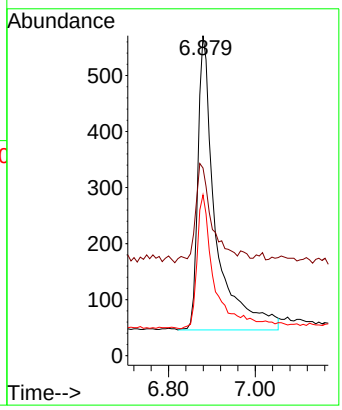


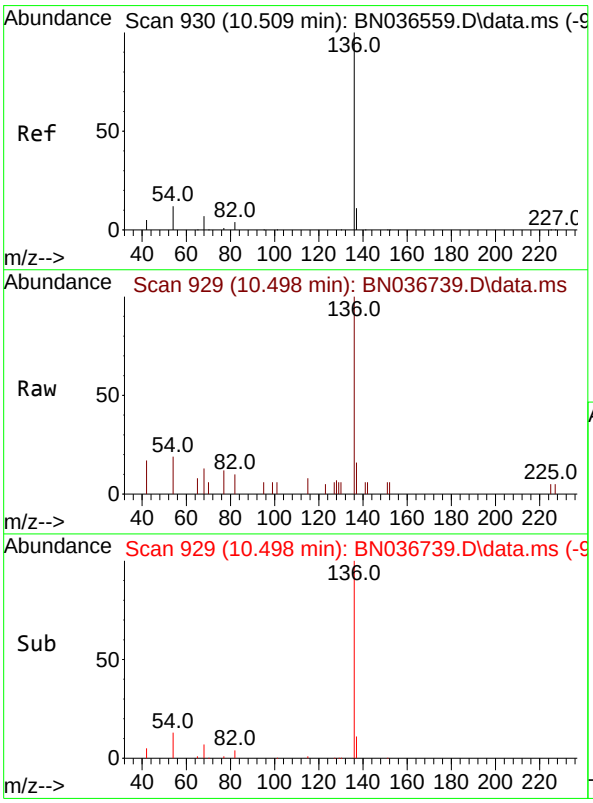
#5
Phenol-d6
Concen: 0.383 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Tgt Ion: 99 Resp: 1499

Ion	Ratio	Lower	Upper
99	100		
42	31.2	26.5	39.7
71	43.6	34.1	51.1

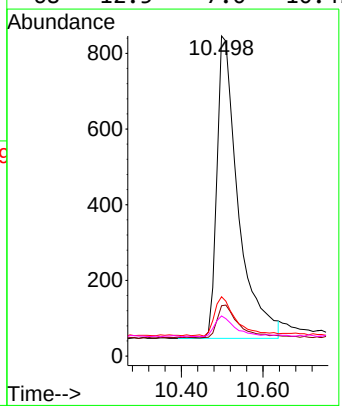


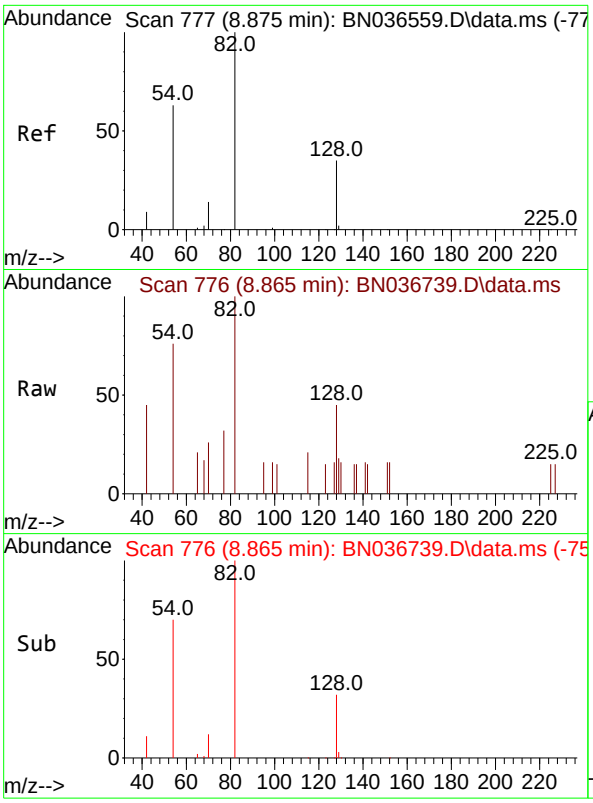


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Tgt Ion:136 Resp: 2889

Ion	Ratio	Lower	Upper
136	100		
137	15.7	10.3	15.5#
54	18.6	11.5	17.3#
68	12.5	7.0	10.4#



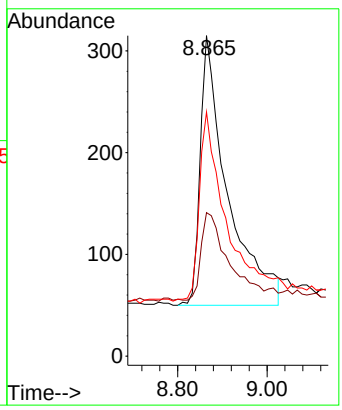


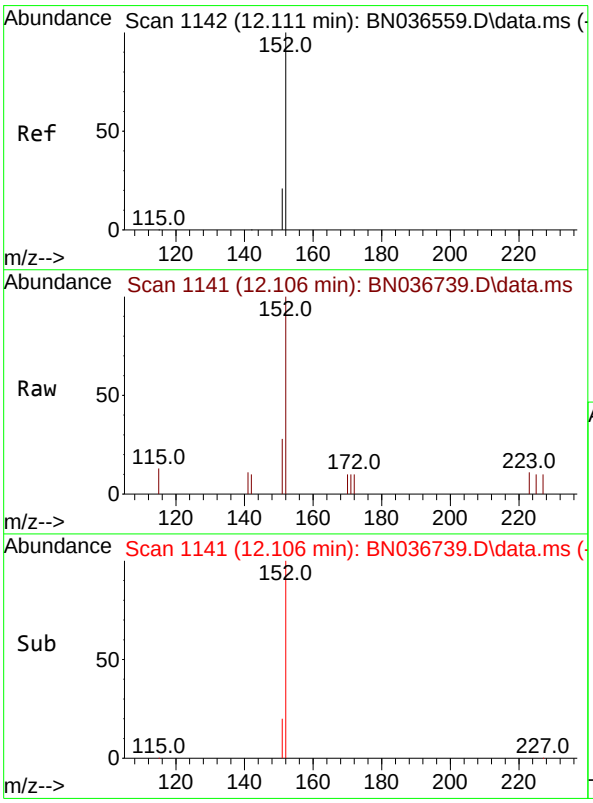
#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Tgt Ion: 82 Resp: 1121

Ion	Ratio	Lower	Upper
82	100		
128	44.8	30.6	45.8
54	76.2	52.2	78.4

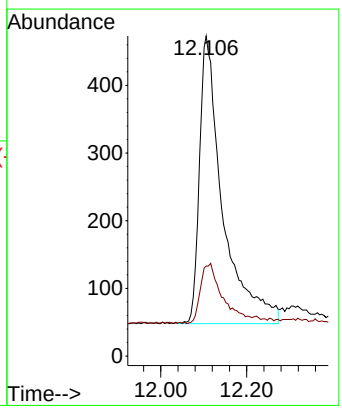


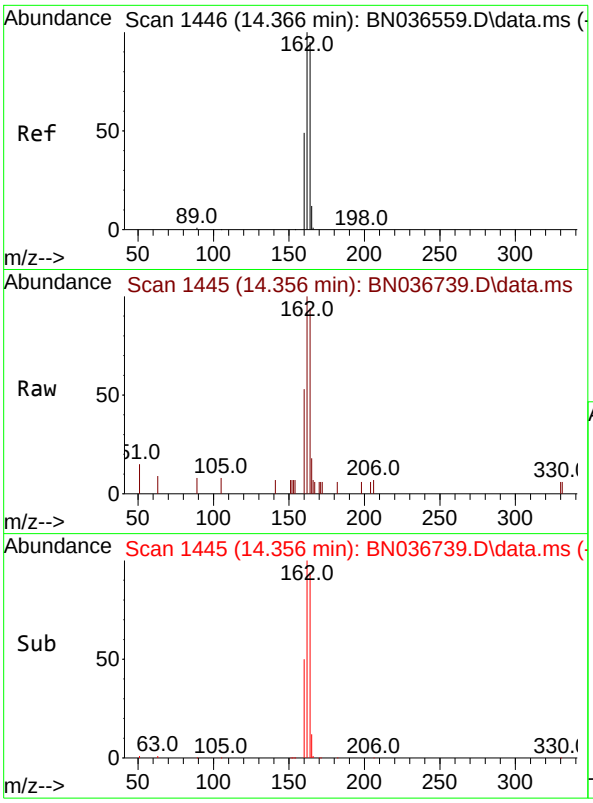


#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Tgt Ion:152 Resp: 1588

Ion	Ratio	Lower	Upper
152	100		
151	20.1	17.0	25.6



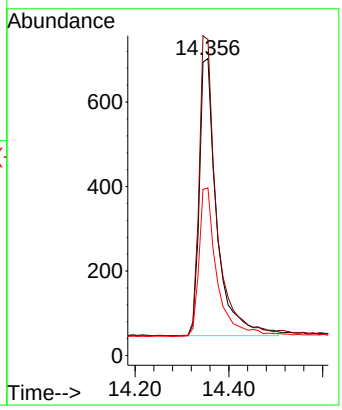


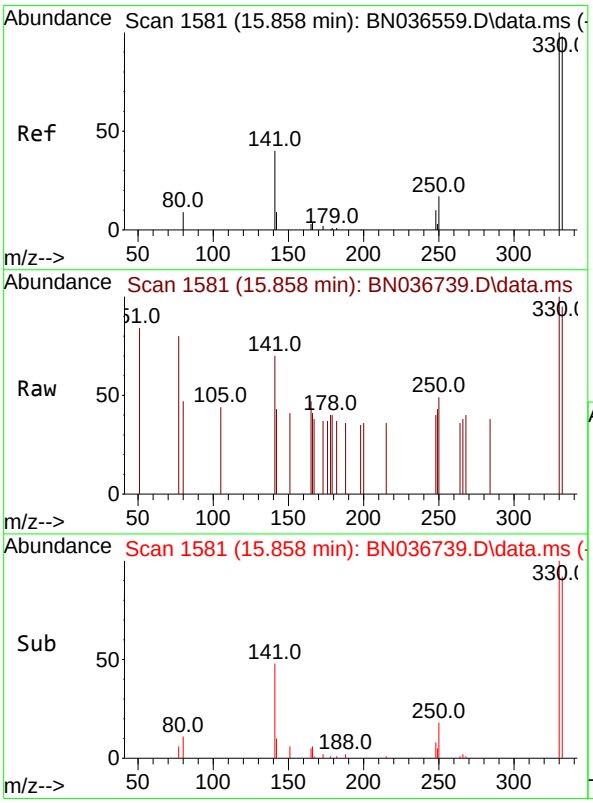
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Tgt Ion:164 Resp: 1699

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.2
160	56.5	42.2	63.2

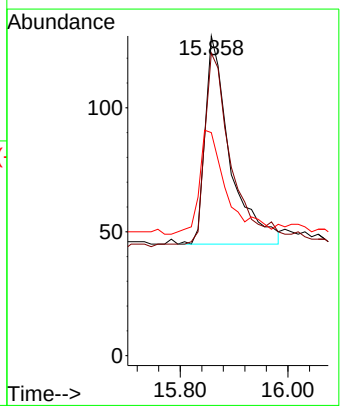


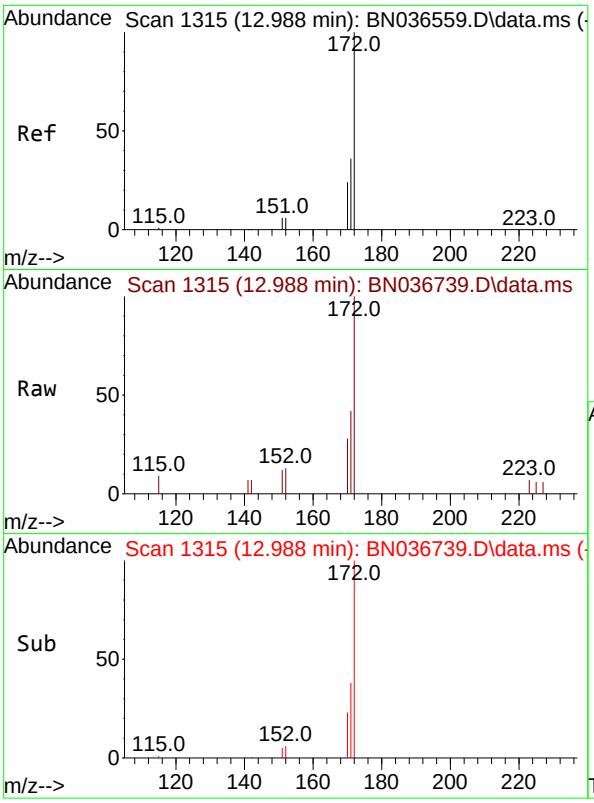


#14
2,4,6-Tribromophenol
Concen: 0.349 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Tgt Ion:330 Resp: 269

Ion	Ratio	Lower	Upper
330	100		
332	98.9	75.2	112.8
141	54.6	43.4	65.2



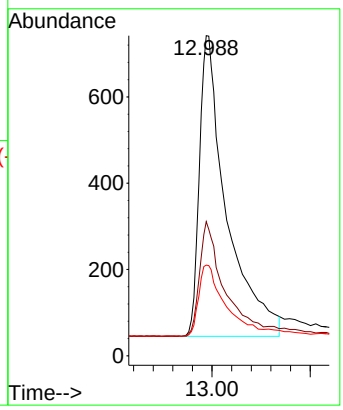


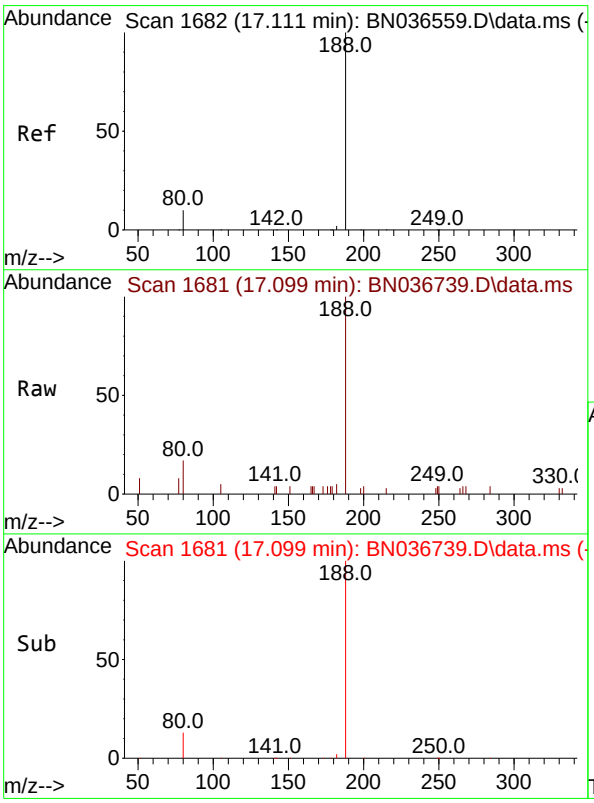
#15
2-Fluorobiphenyl
Concen: 0.305 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Tgt Ion:172 Resp: 3011

Ion	Ratio	Lower	Upper
172	100		
171	41.9	29.5	44.3
170	28.3	20.2	30.4

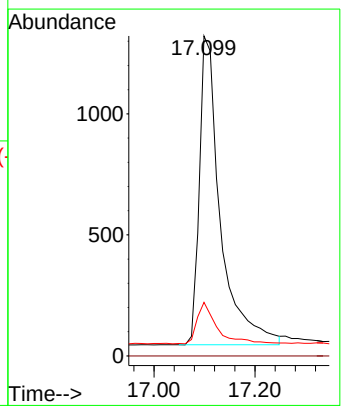


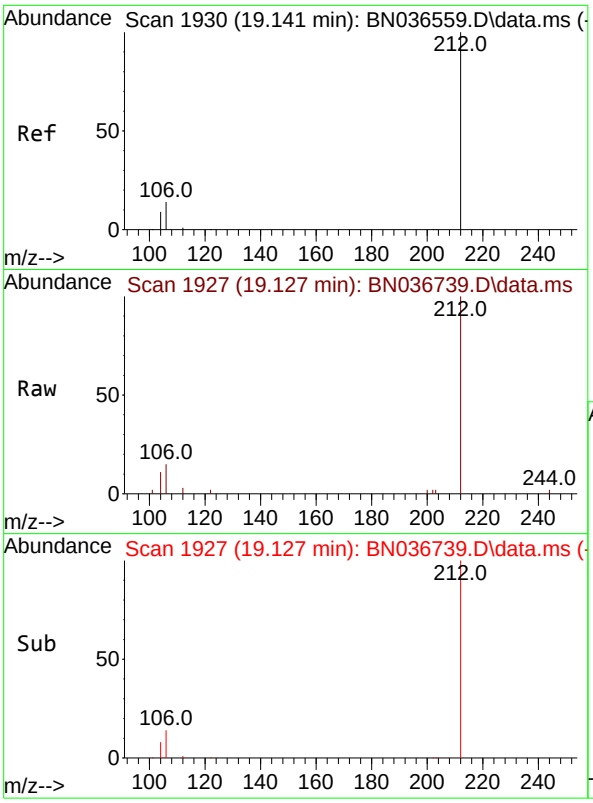


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Tgt Ion:188 Resp: 3701

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.7	8.8	13.2#



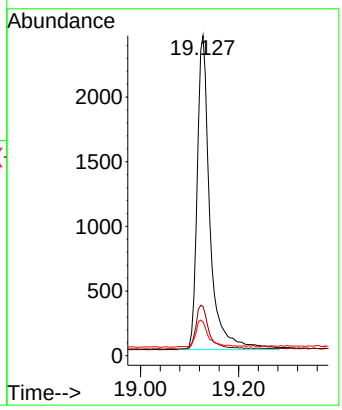


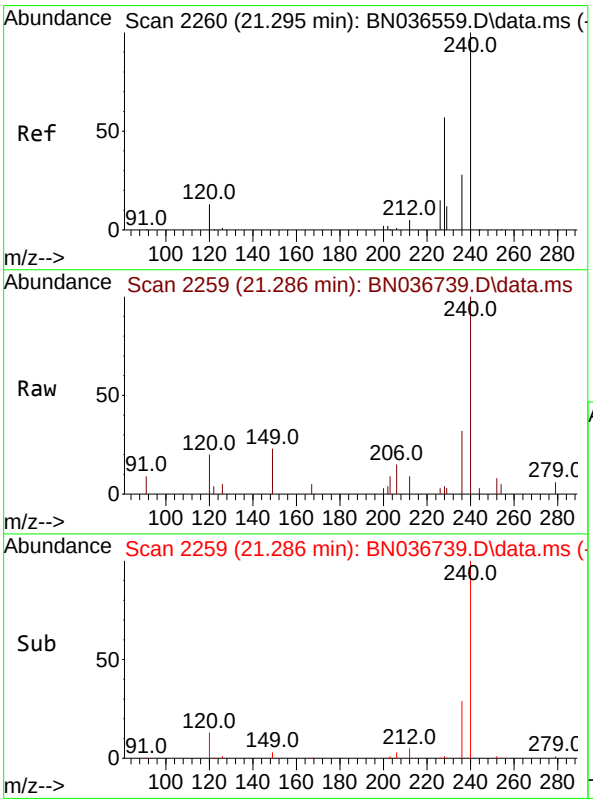
#27
Fluoranthene-d10
Concen: 0.461 ng
RT: 19.127 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Tgt Ion:212 Resp: 4373

Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.8	17.6
104	8.9	7.3	10.9

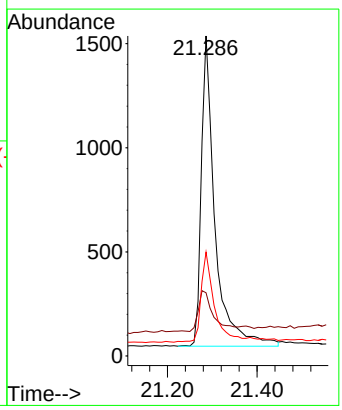


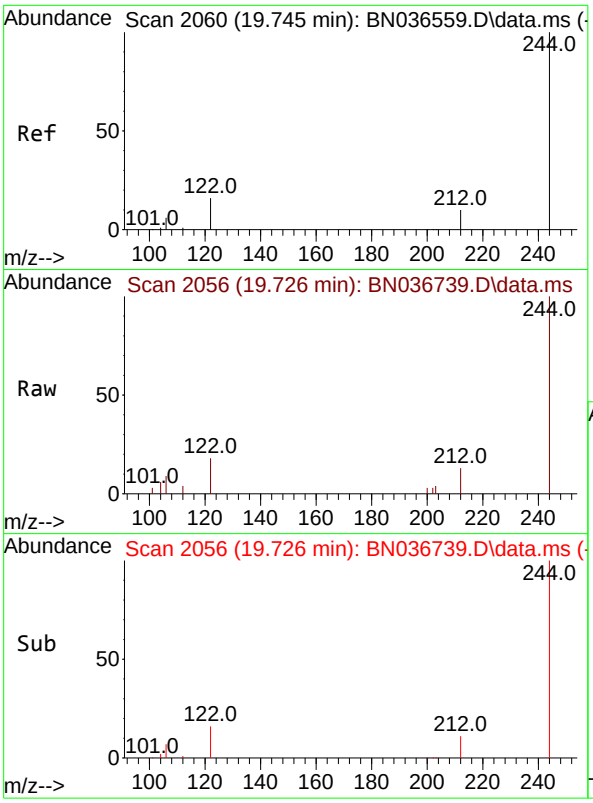


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 2259
Delta R.T. -0.009 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Tgt Ion:240 Resp: 3168

Ion	Ratio	Lower	Upper
240	100		
120	19.8	14.6	22.0
236	32.5	24.1	36.1



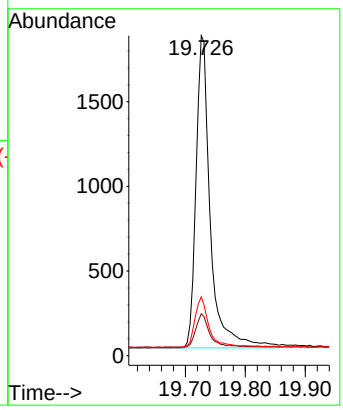


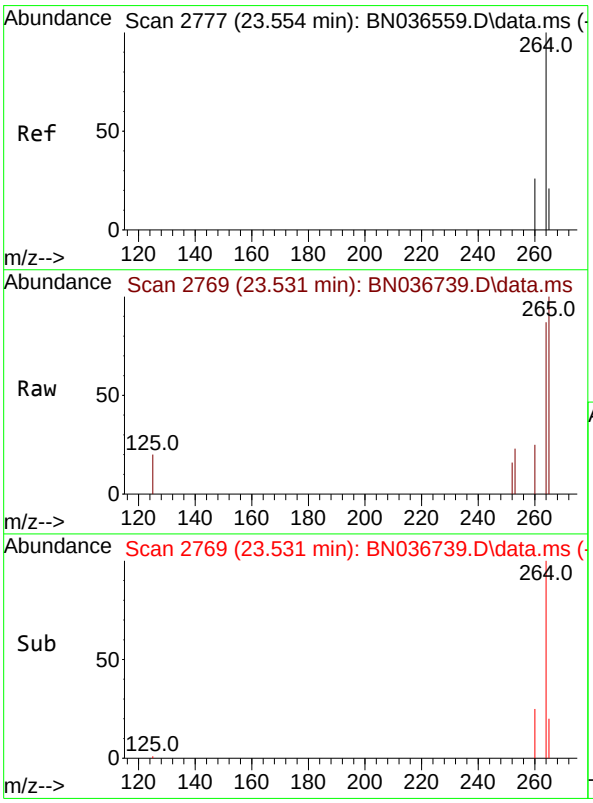
#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Instrument :
BNA_N
ClientSampleId :
PB167251BL

Tgt Ion:244 Resp: 3057

Ion	Ratio	Lower	Upper
244	100		
212	13.1	9.6	14.4
122	18.4	13.9	20.9

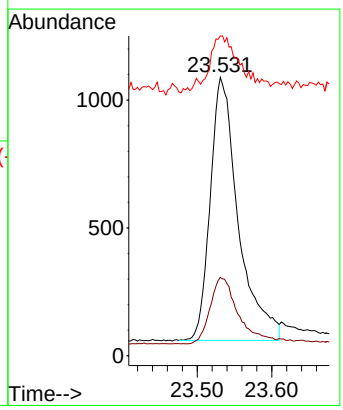




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.531 min Scan# 2769
Delta R.T. -0.023 min
Lab File: BN036739.D
Acq: 27 Mar 2025 16:14

Tgt Ion:264 Resp: 2693

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	114.9	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:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB167232BS	SDG No.:	Q1608
Lab Sample ID:	PB167232BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036754.D	1	03/20/25 10:49	03/28/25 01:16	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		107%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1550	7.703				
1146-65-2	Naphthalene-d8	3540	10.487				
15067-26-2	Acenaphthene-d10	1990	14.345				
1517-22-2	Phenanthrene-d10	4560	17.086				
1719-03-5	Chrysene-d12	3770	21.277				
1520-96-3	Perylene-d12	3340	23.522				

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\BN032725\
Data File : BN036754.D
Acq On : 28 Mar 2025 01:16
Operator : RC/JU
Sample : PB167232BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 28 01:40:24 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 :
PB167232BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1547	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3543	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	1990	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4558	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3774	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3342	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	1519	0.421	ng	-0.01
5) Phenol-d6	6.872	99	1739	0.390	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1403	0.364	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2255m	0.428	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	385	0.426	ng	-0.01
15) 2-Fluorobiphenyl	12.963	172	4716	0.407	ng	-0.03
27) Fluoranthene-d10	19.122	212	4920	0.421	ng	-0.02
31) Terphenyl-d14	19.726	244	3549	0.392	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	640	0.373	ng	# 4
3) n-Nitrosodimethylamine	3.535	42	1568	0.452	ng	94
6) bis(2-Chloroethyl)ether	7.125	93	1785	0.388	ng	100
9) Naphthalene	10.530	128	4314	0.414	ng	97
10) Hexachlorobutadiene	10.829	225	1038	0.423	ng	# 98
12) 2-Methylnaphthalene	12.156	142	2710	0.409	ng	98
16) Acenaphthylene	14.056	152	4201	0.447	ng	99
17) Acenaphthene	14.398	154	2710	0.441	ng	100
18) Fluorene	15.392	166	3766	0.453	ng	100
20) 4,6-Dinitro-2-methylph...	15.489	198	352	0.448	ng	# 81
21) 4-Bromophenyl-phenylether	16.292	248	1221	0.428	ng	# 82
22) Hexachlorobenzene	16.404	284	1411	0.409	ng	97
23) Atrazine	16.565	200	1039	0.454	ng	94
24) Pentachlorophenol	16.751	266	929	0.591	ng	98
25) Phenanthrene	17.124	178	6147	0.450	ng	100
26) Anthracene	17.223	178	5654	0.458	ng	98
28) Fluoranthene	19.155	202	7284	0.474	ng	99
30) Pyrene	19.517	202	7541	0.409	ng	100
32) Benzo(a)anthracene	21.259	228	5618	0.428	ng	99
33) Chrysene	21.313	228	6823	0.476	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3502	0.375	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.794	276	5692	0.472	ng	98
37) Benzo(b)fluoranthene	22.847	252	5584	0.459	ng	96
38) Benzo(k)fluoranthene	22.891	252	6025	0.472	ng	96
39) Benzo(a)pyrene	23.426	252	4879	0.476	ng	# 93
40) Dibenzo(a,h)anthracene	25.817	278	4207	0.448	ng	96
41) Benzo(g,h,i)perylene	26.478	276	4660	0.434	ng	95

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

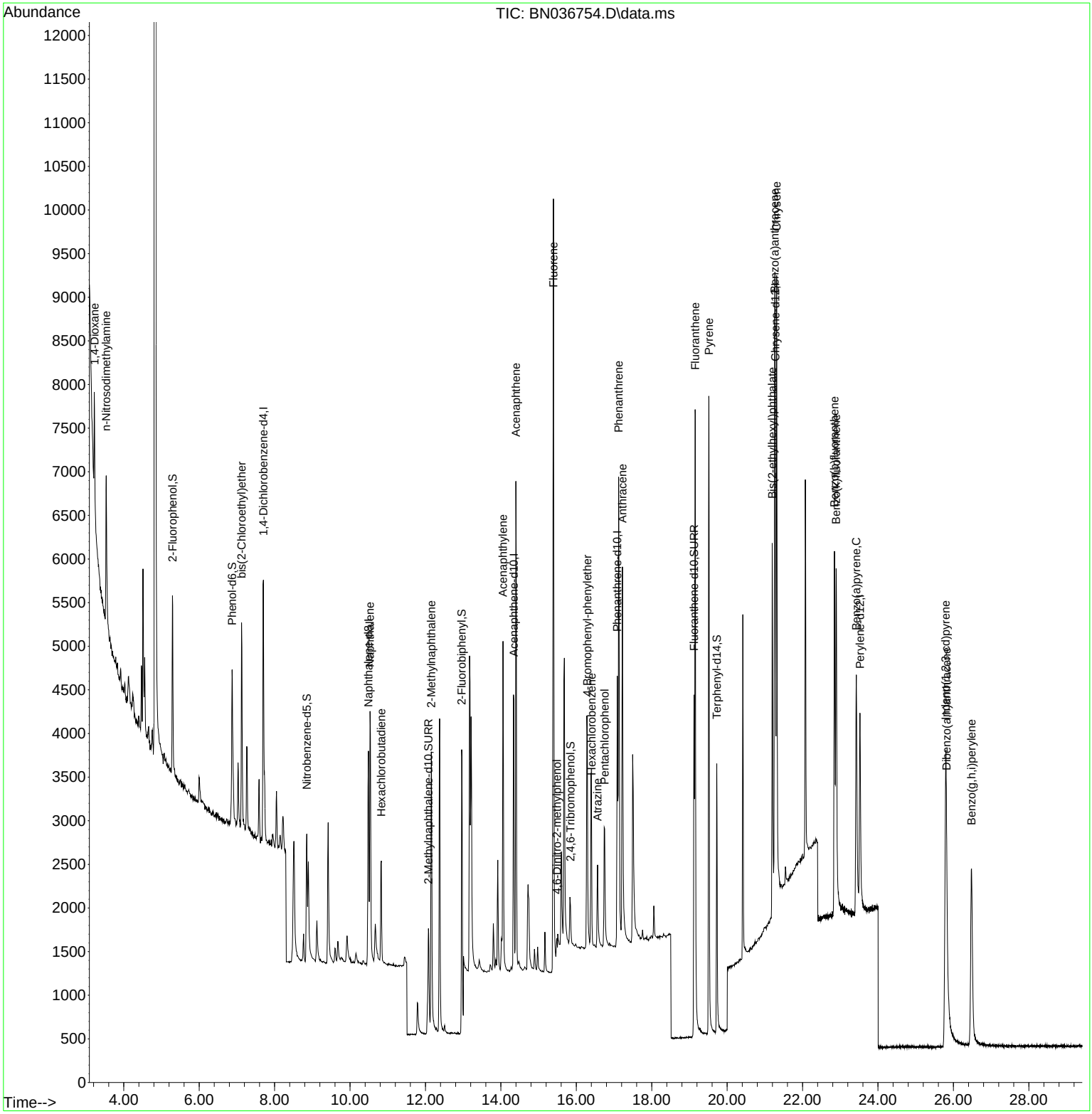
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036754.D
Acq On : 28 Mar 2025 01:16
Operator : RC/JU
Sample : PB167232BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

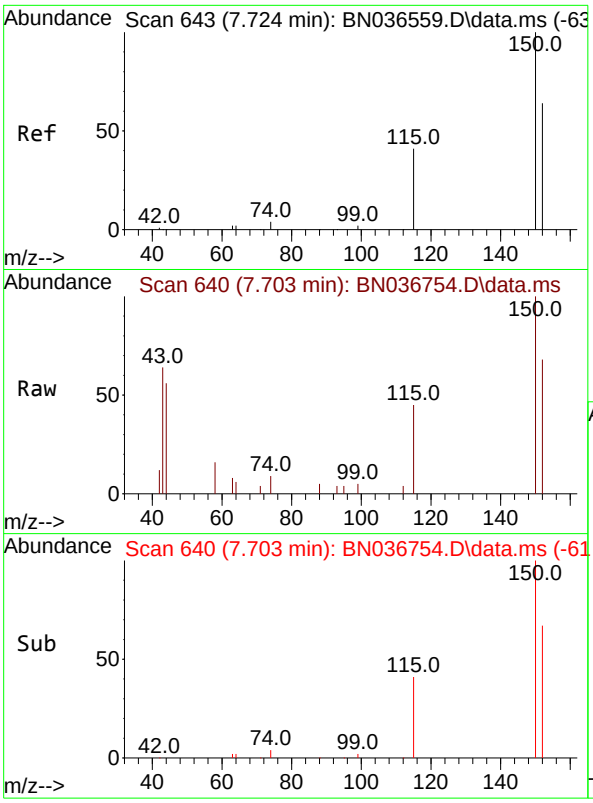
Quant Time: Mar 28 01:40:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

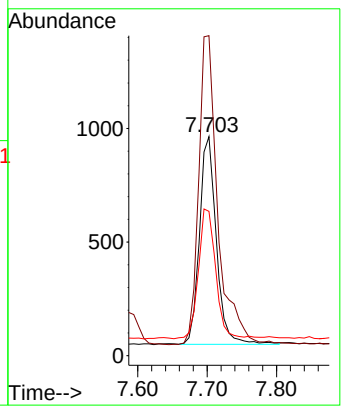




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:152 Resp: 154

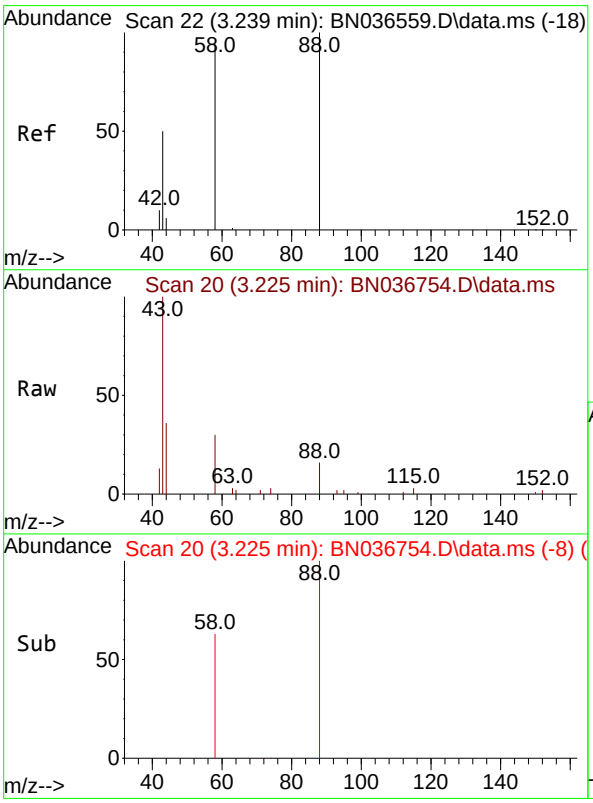
Ion	Ratio	Lower	Upper
152	100		
150	146.1	123.7	185.5
115	65.9	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

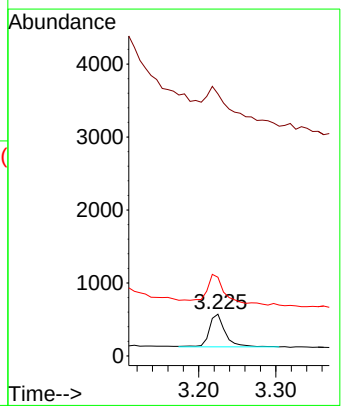
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

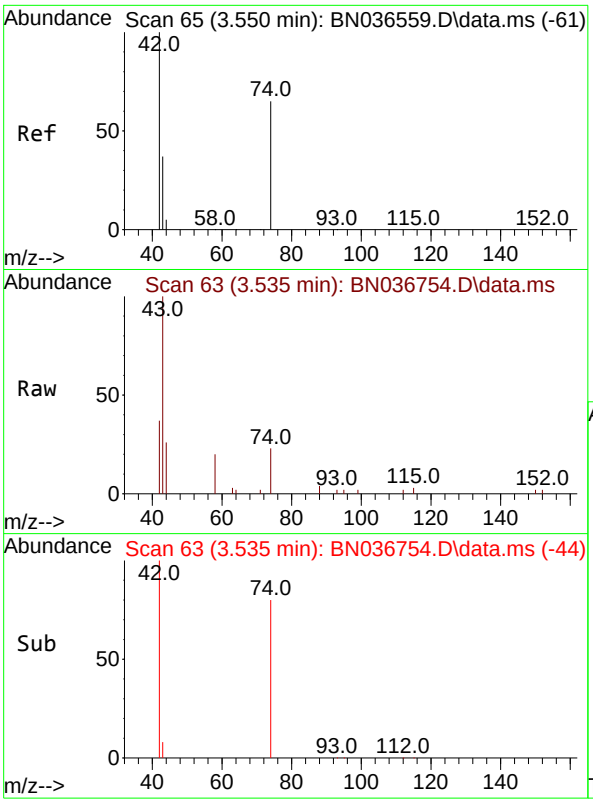


#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion: 88 Resp: 640

Ion	Ratio	Lower	Upper
88	100		
43	193.1	37.8	56.8#
58	109.7	67.4	101.2#

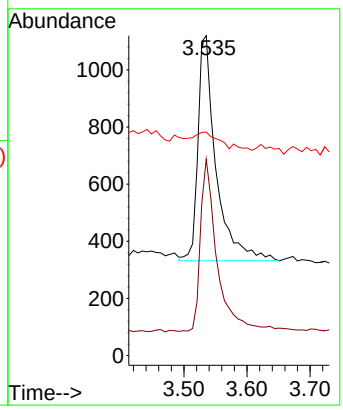




#3
n-Nitrosodimethylamine
Concen: 0.452 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion: 42 Resp: 156

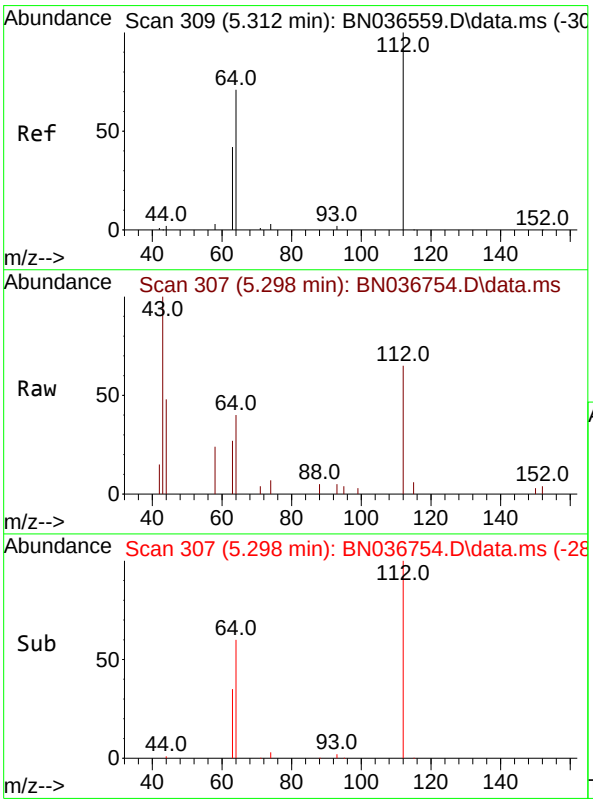
Ion	Ratio	Lower	Upper
42	100		
74	70.5	60.6	90.8
44	9.2	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations APPROVED

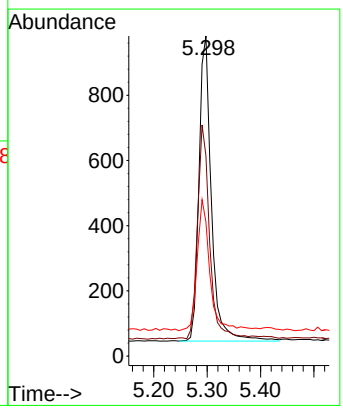
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

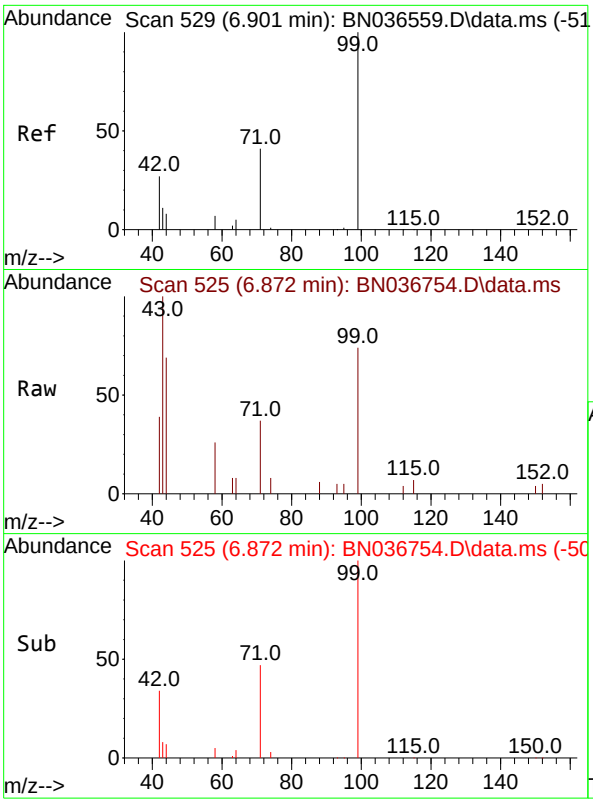


#4
2-Fluorophenol
Concen: 0.421 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.014 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:112 Resp: 1519

Ion	Ratio	Lower	Upper
112	100		
64	69.1	53.1	79.7
63	43.6	31.8	47.8

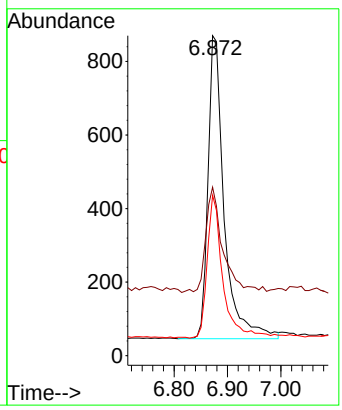




#5
Phenol-d6
Concen: 0.390 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion: 99 Resp: 173

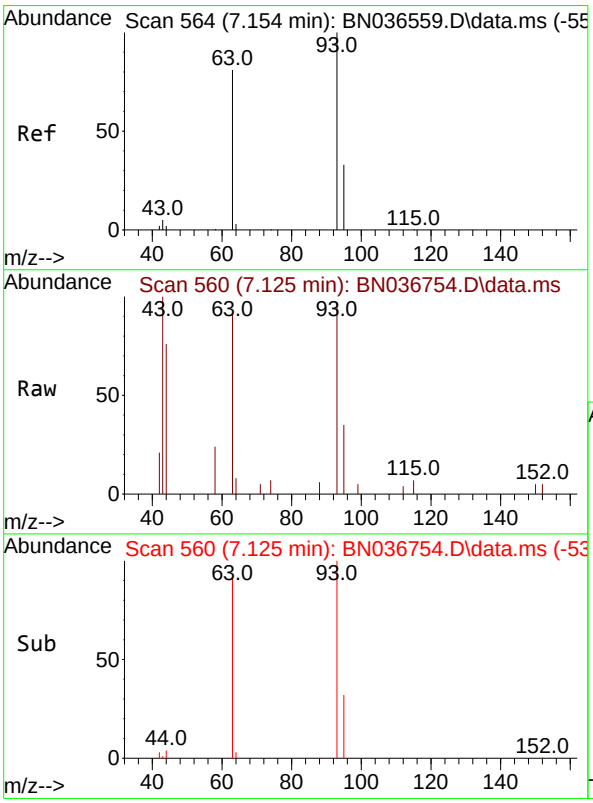
Ion	Ratio	Lower	Upper
99	100		
42	36.7	26.5	39.7
71	45.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

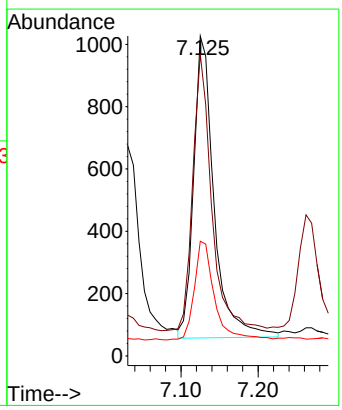
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

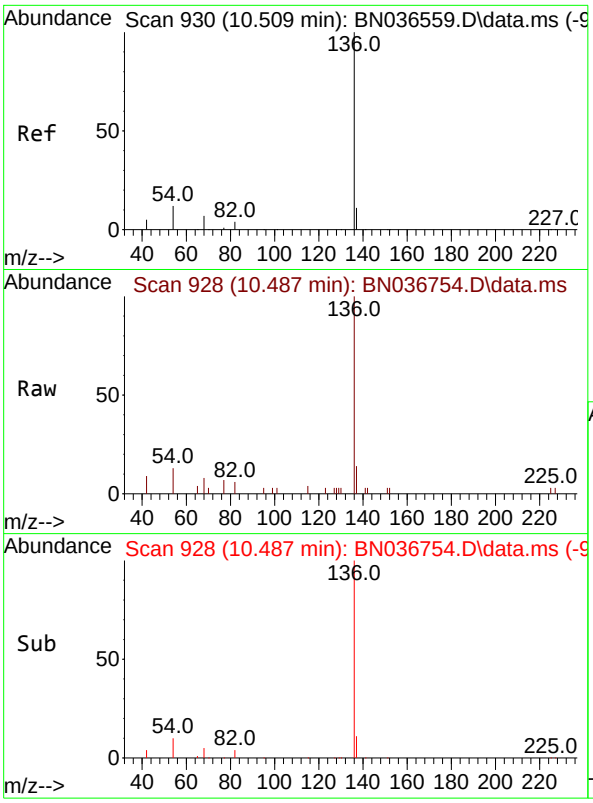


#6
bis(2-Chloroethyl)ether
Concen: 0.388 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion: 93 Resp: 1785

Ion	Ratio	Lower	Upper
93	100		
63	84.8	67.7	101.5
95	32.4	25.6	38.4

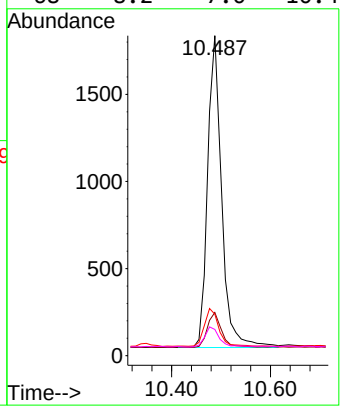




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:136 Resp: 354

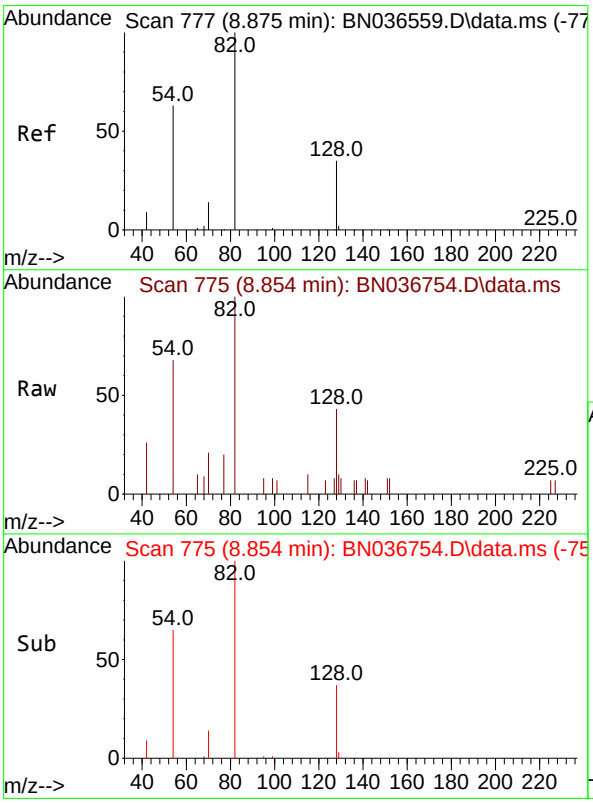
Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.3	15.5
54	13.0	11.5	17.3
68	8.2	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

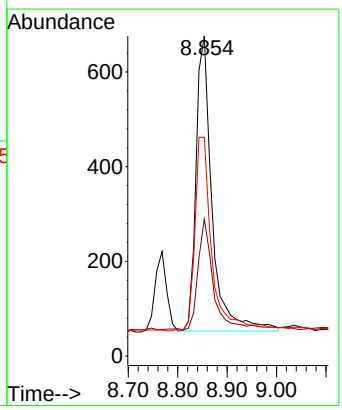
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

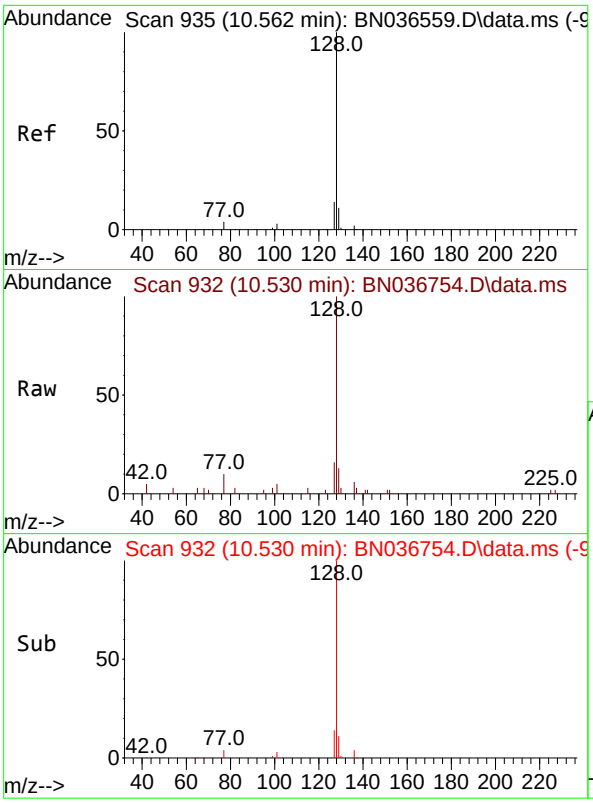


#8
Nitrobenzene-d5
Concen: 0.364 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion: 82 Resp: 1403

Ion	Ratio	Lower	Upper
82	100		
128	42.8	30.6	45.8
54	68.3	52.2	78.4

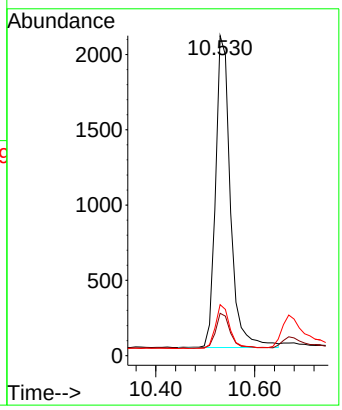




#9
Naphthalene
Concen: 0.414 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:128 Resp: 431

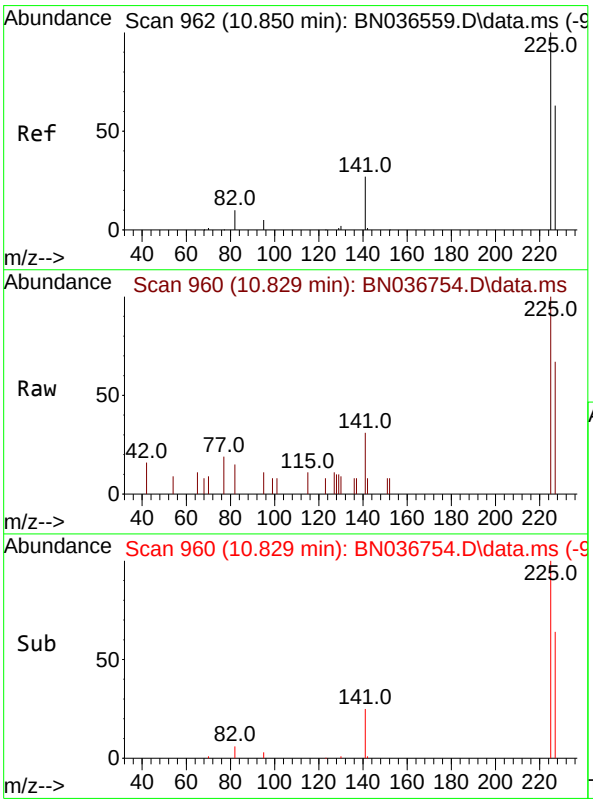
Ion	Ratio	Lower	Upper
128	100		
129	13.2	9.8	14.6
127	16.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

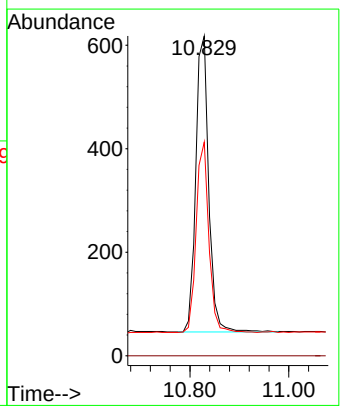
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

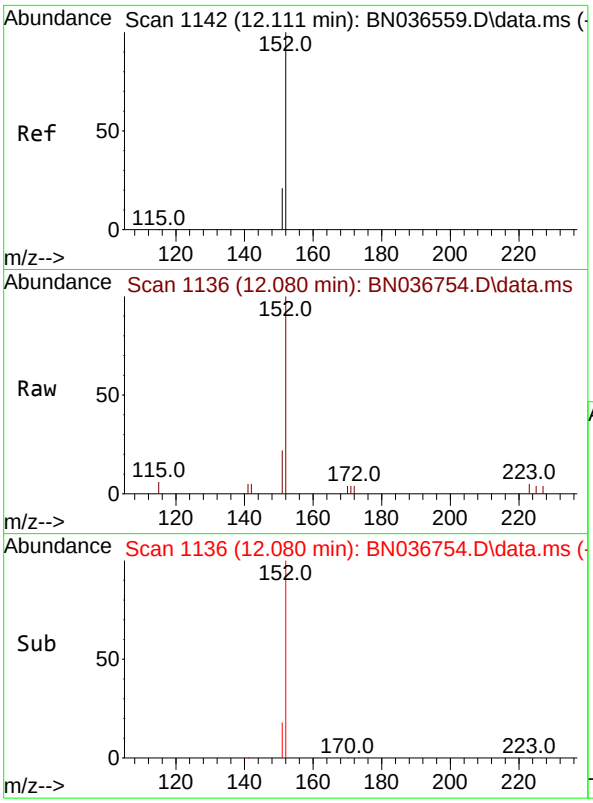


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:225 Resp: 1038

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	51.8	77.8

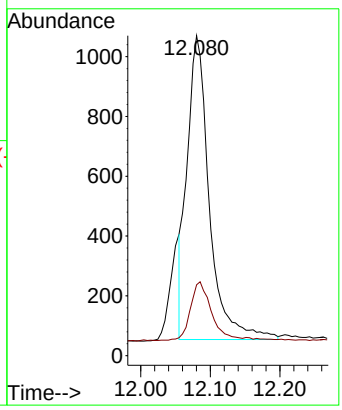




#11
2-Methylnaphthalene-d10
Concen: 0.428 ng m
RT: 12.080 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:152 Resp: 225

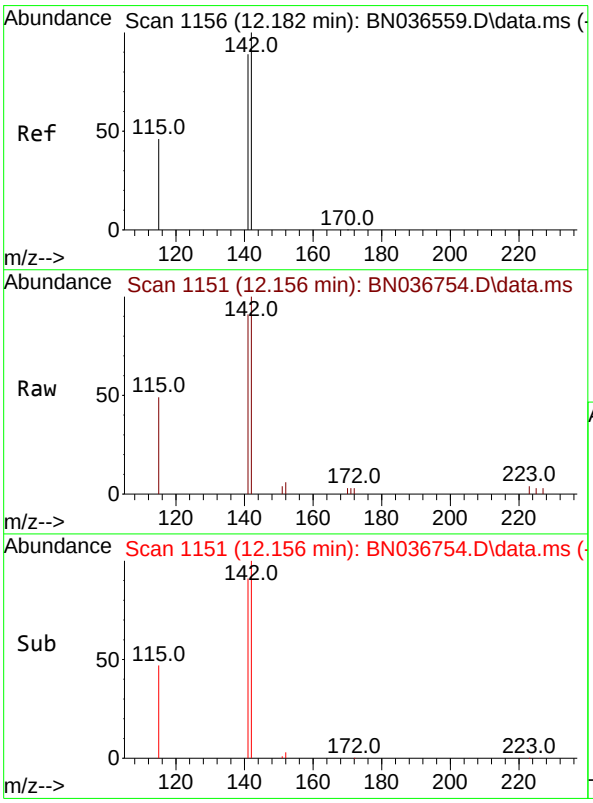
Ion	Ratio	Lower	Upper
152	100		
151	18.1	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

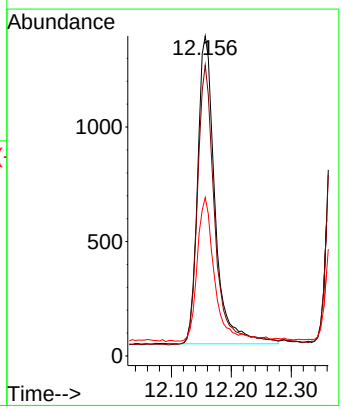
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

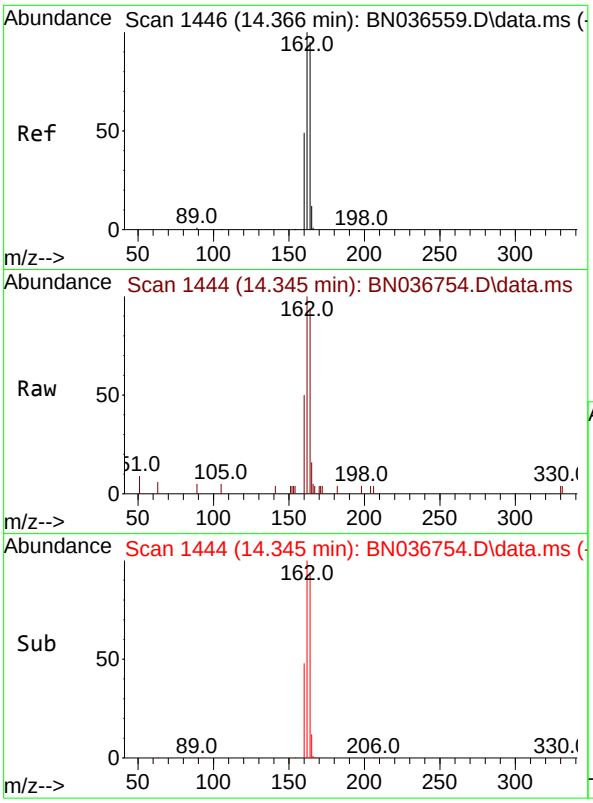


#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:142 Resp: 2710

Ion	Ratio	Lower	Upper
142	100		
141	90.9	71.7	107.5
115	49.5	38.3	57.5

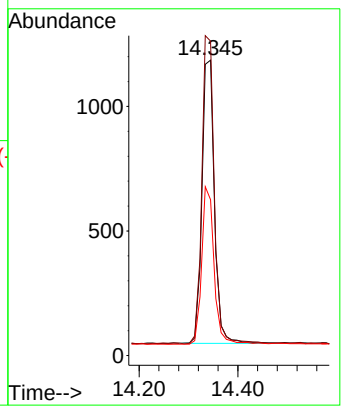




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:164 Resp: 199

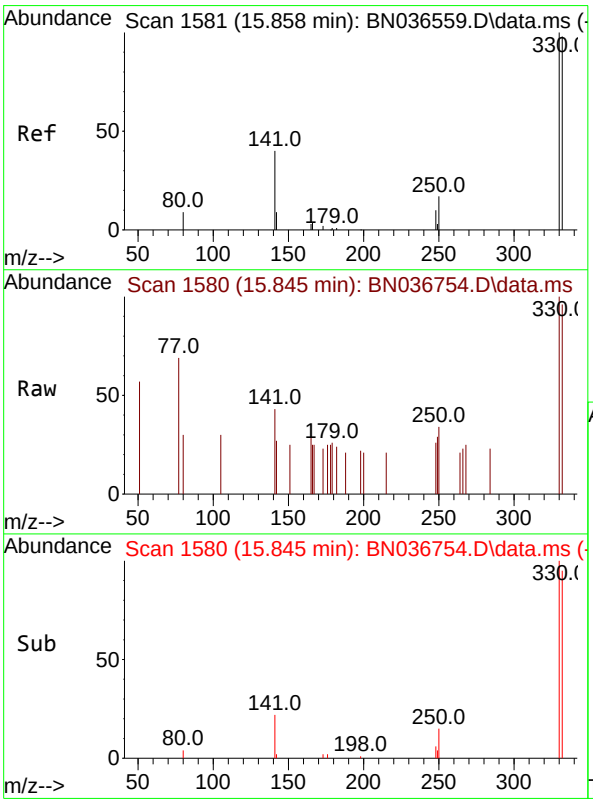
Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.2
160	52.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

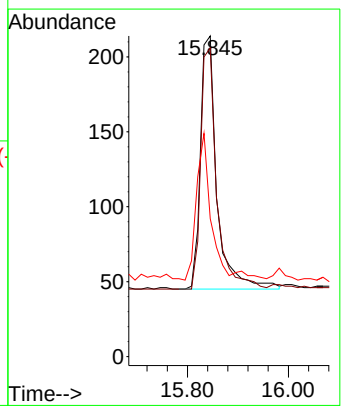
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

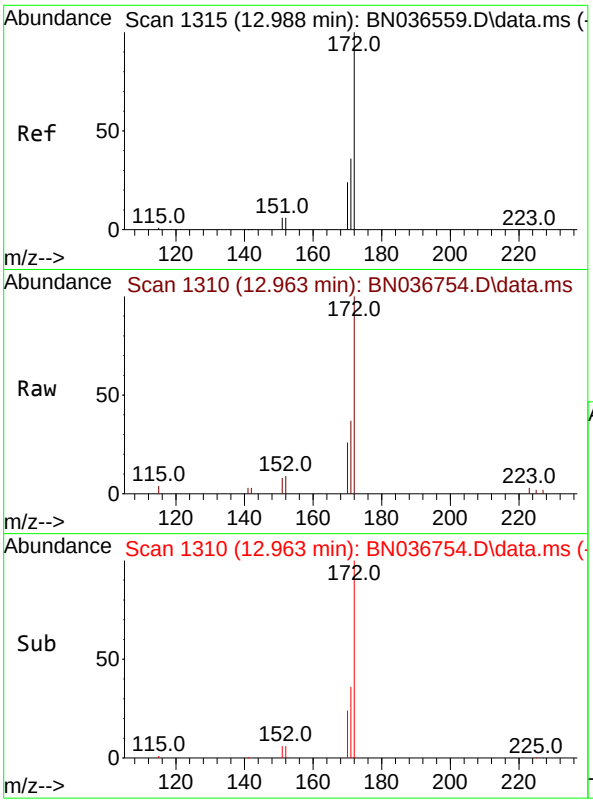


#14
2,4,6-Tribromophenol
Concen: 0.426 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:330 Resp: 385

Ion	Ratio	Lower	Upper
330	100		
332	92.5	75.2	112.8
141	48.8	43.4	65.2

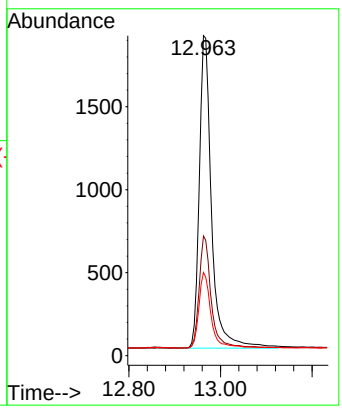




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:172 Resp: 471

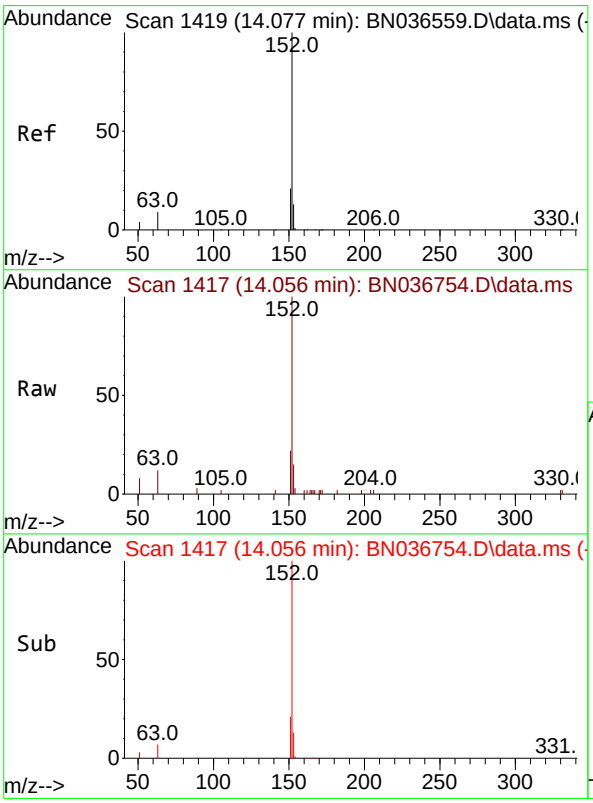
Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.5	44.3
170	26.0	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

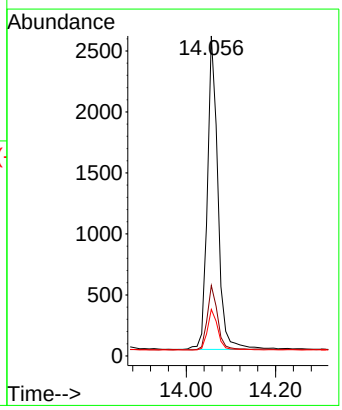
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

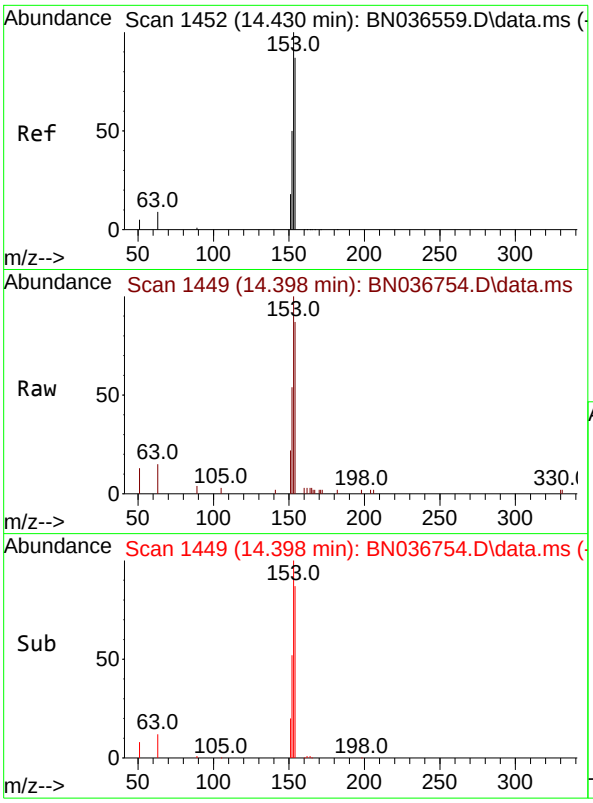


#16
Acenaphthylene
Concen: 0.447 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:152 Resp: 4201

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.8	10.6	15.8

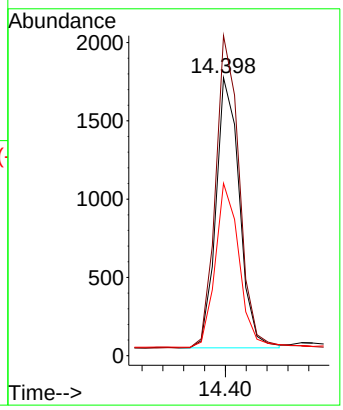




#17
Acenaphthene
Concen: 0.441 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:154 Resp: 271(

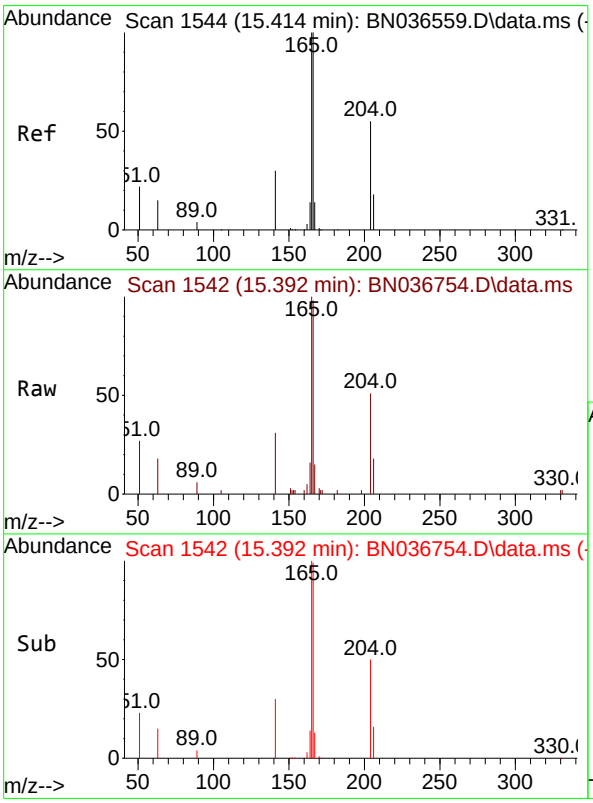
Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

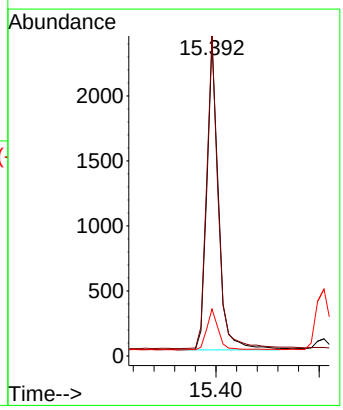
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

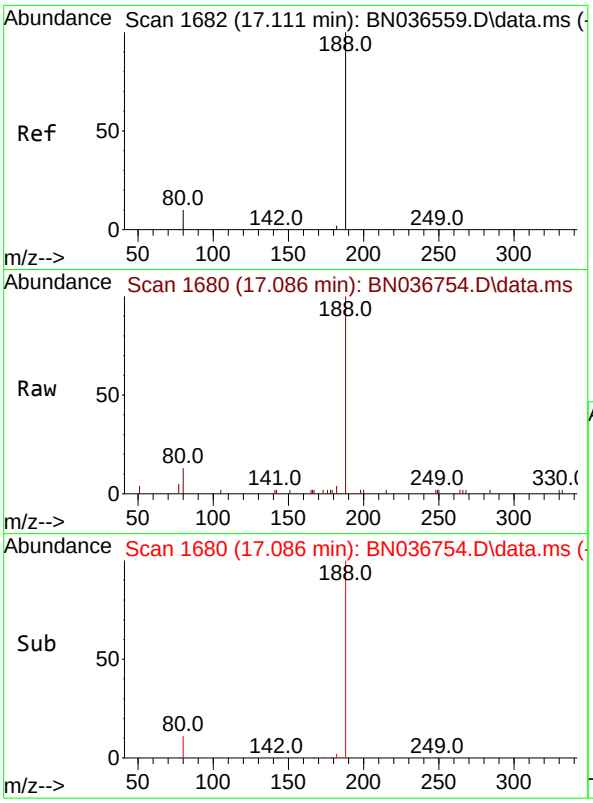


#18
Fluorene
Concen: 0.453 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:166 Resp: 3766

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.8	119.8
167	12.9	10.6	15.8

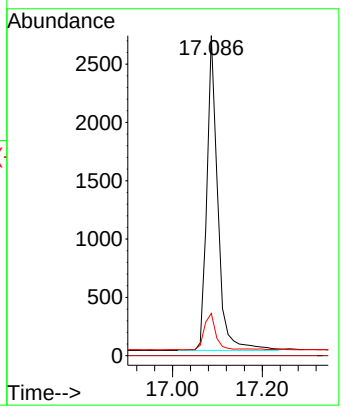




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:188 Resp: 455

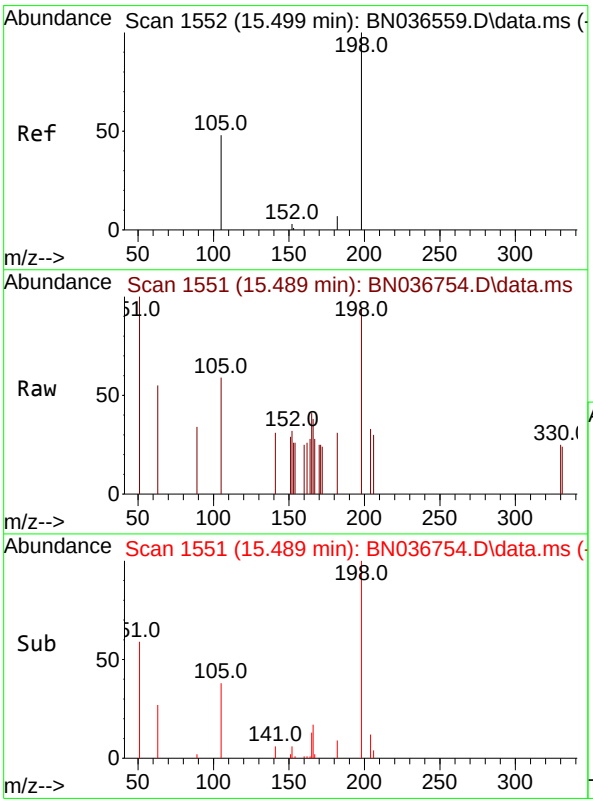
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.2	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

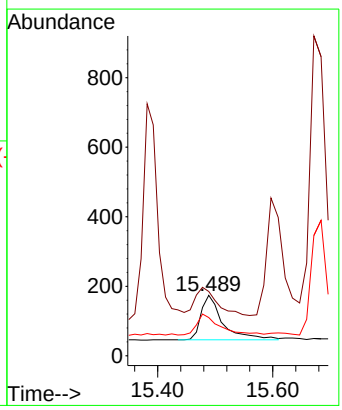
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

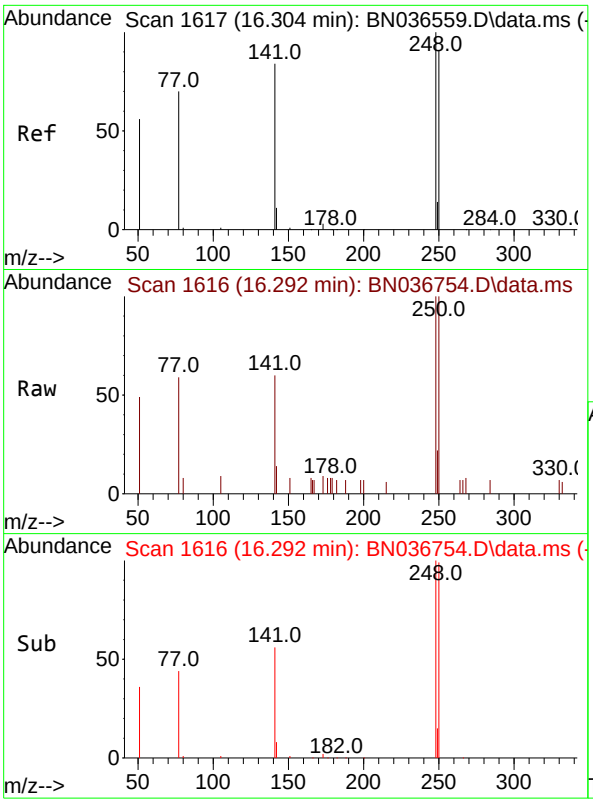


#20
4,6-Dinitro-2-methylphenol
Concen: 0.448 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:198 Resp: 352

Ion	Ratio	Lower	Upper
198	100		
51	106.3	107.9	161.9#
105	63.2	56.2	84.2

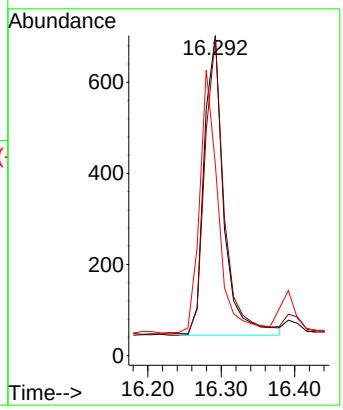




#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.292 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:248 Resp: 122

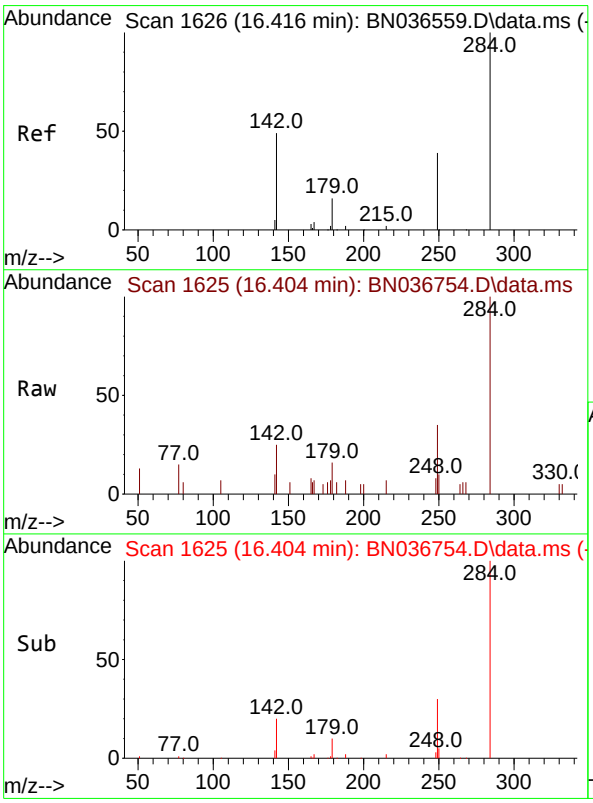
Ion	Ratio	Lower	Upper
248	100		
250	99.6	73.0	109.6
141	59.7	68.6	103.0#



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

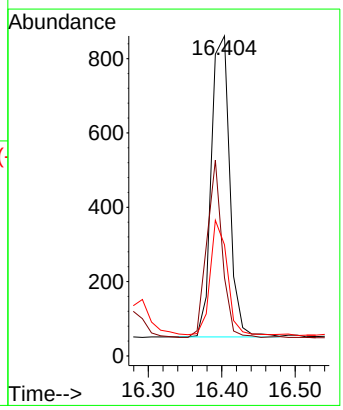
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

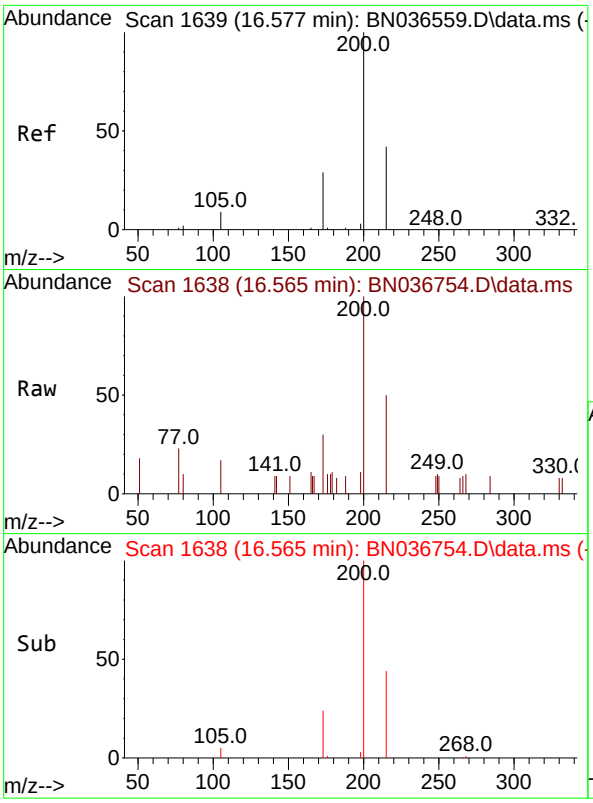


#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:284 Resp: 1411

Ion	Ratio	Lower	Upper
284	100		
142	49.0	37.0	55.4
249	34.9	28.1	42.1

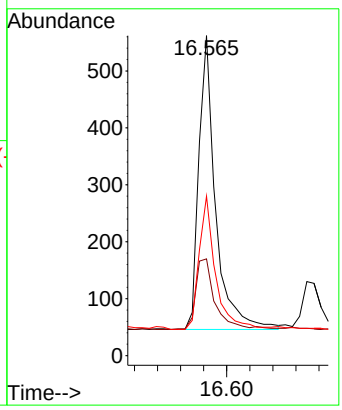




#23
Atrazine
Concen: 0.454 ng
RT: 16.565 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:200 Resp: 103

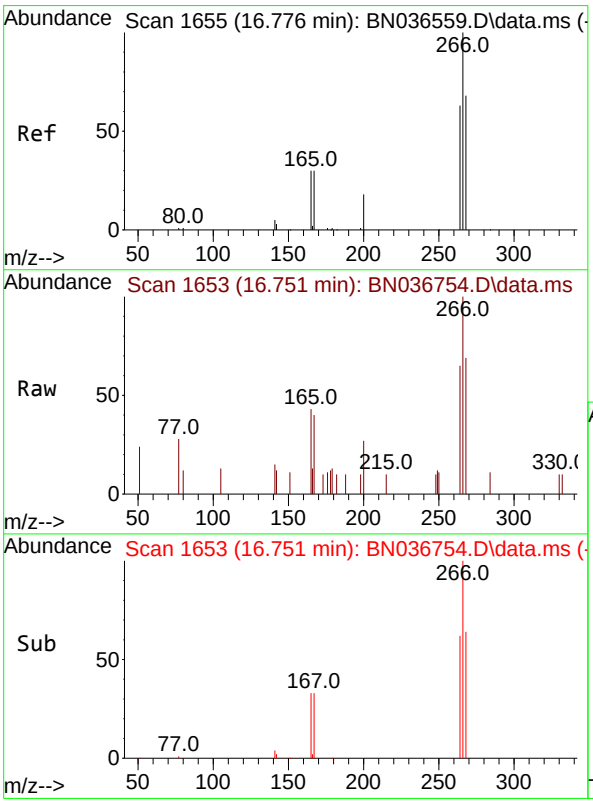
Ion	Ratio	Lower	Upper
200	100		
173	30.2	27.3	40.9
215	49.8	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

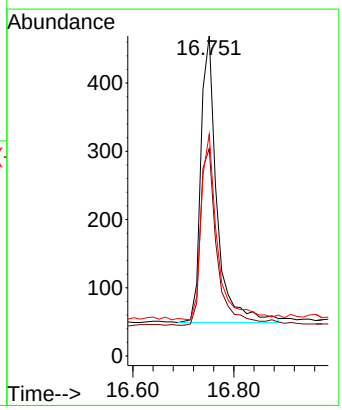
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

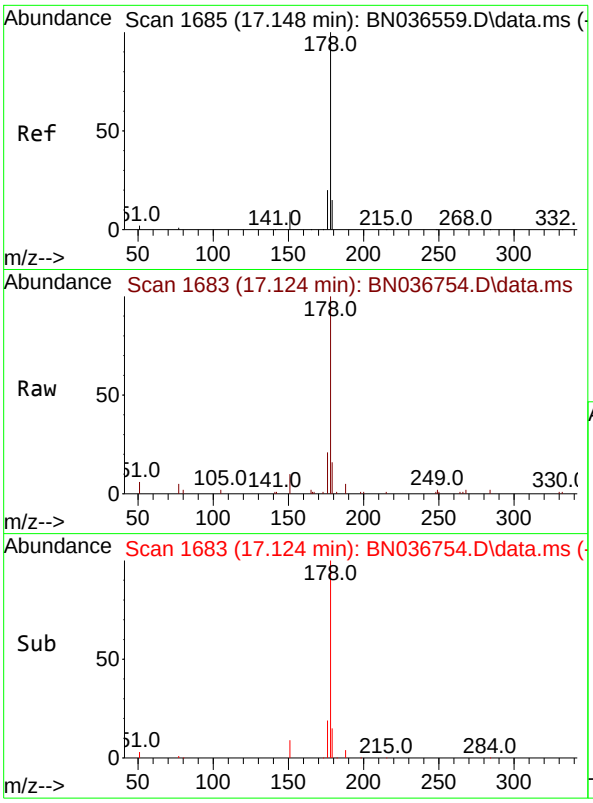


#24
Pentachlorophenol
Concen: 0.591 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:266 Resp: 929

Ion	Ratio	Lower	Upper
266	100		
264	64.3	49.6	74.4
268	64.3	50.9	76.3

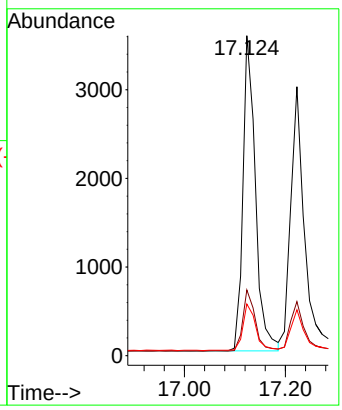




#25
Phenanthrene
Concen: 0.450 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:178 Resp: 614

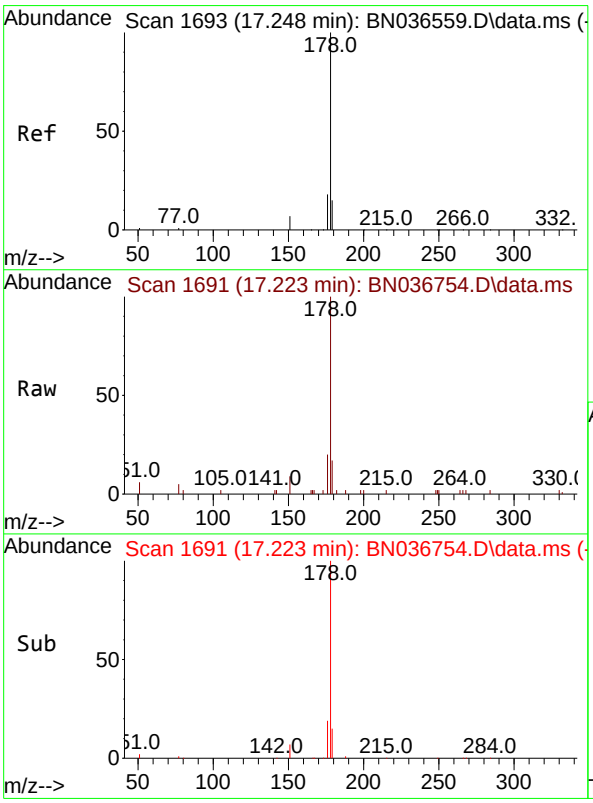
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

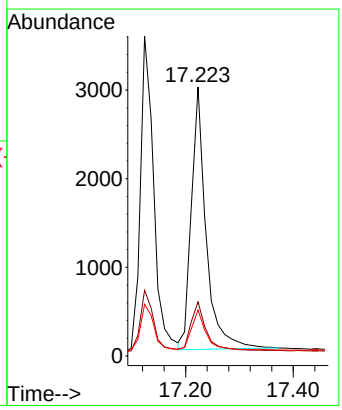
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

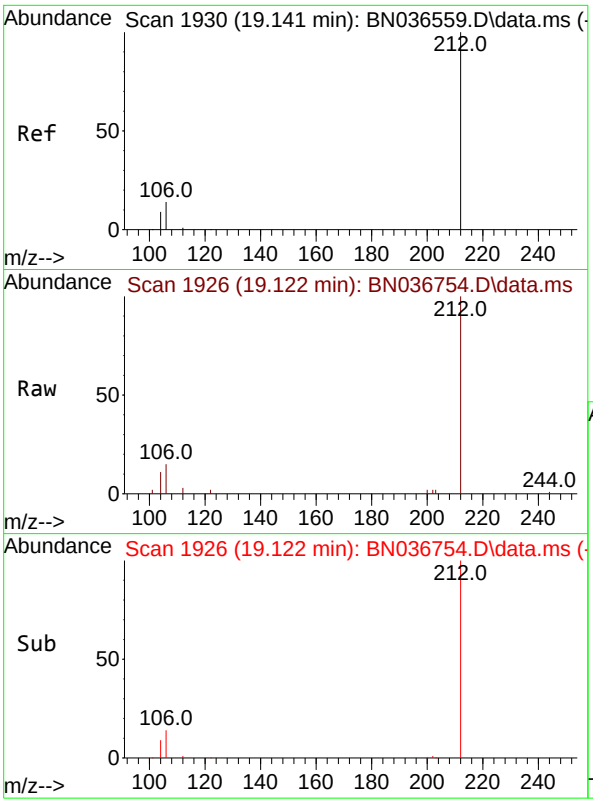


#26
Anthracene
Concen: 0.458 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:178 Resp: 5654

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	14.6	12.6	18.8

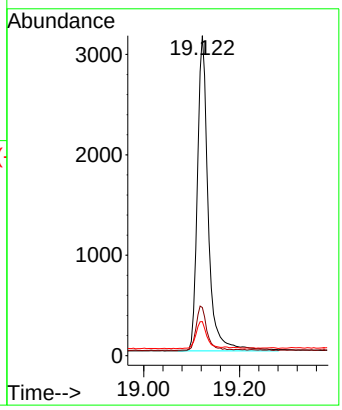




#27
Fluoranthene-d10
Concen: 0.421 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:212 Resp: 492

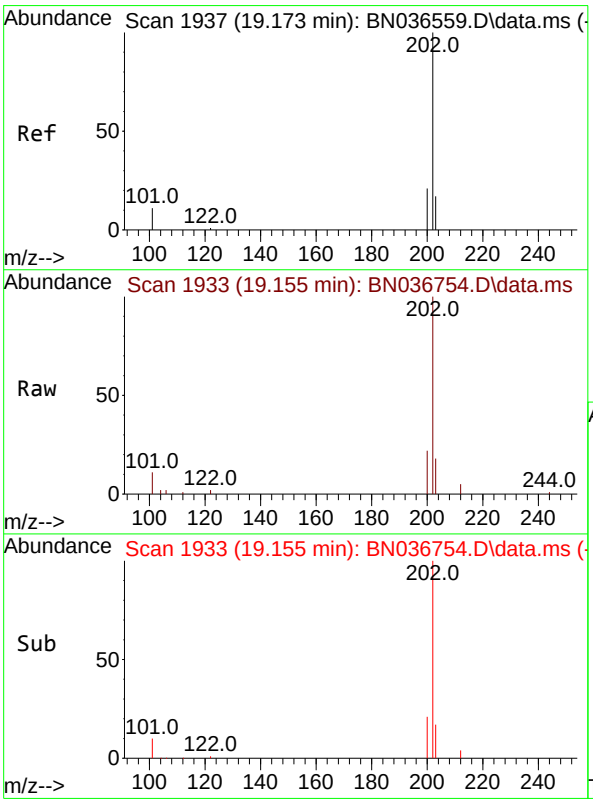
Ion	Ratio	Lower	Upper
212	100		
106	14.0	11.8	17.6
104	8.8	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

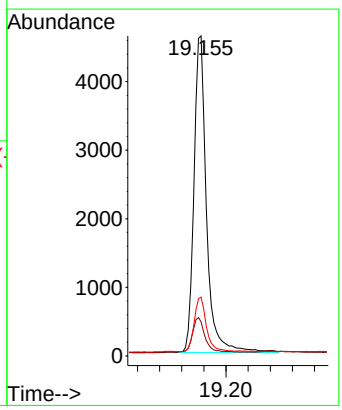
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

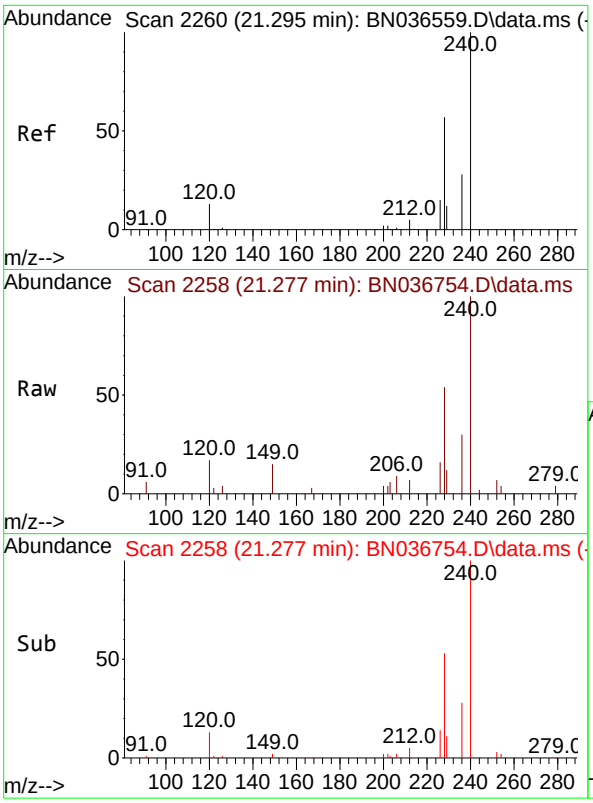


#28
Fluoranthene
Concen: 0.474 ng
RT: 19.155 min Scan# 1933
Delta R.T. -0.019 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:202 Resp: 7284

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.4	14.0
203	16.8	13.5	20.3

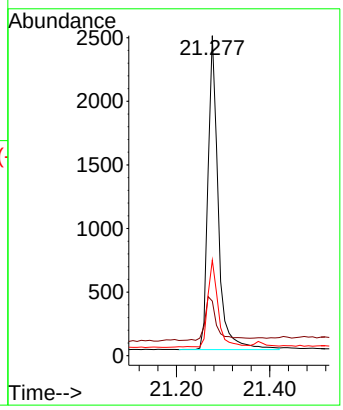




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:240 Resp: 377

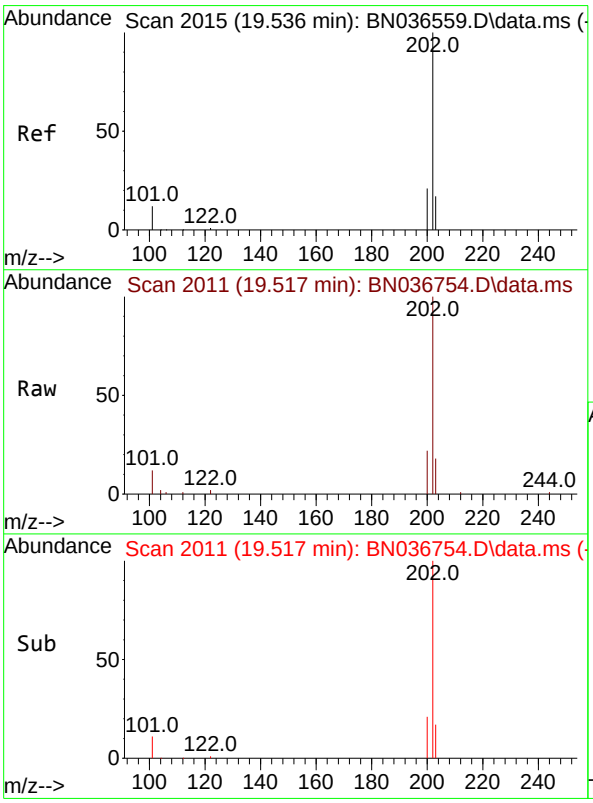
Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.6	22.0
236	29.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

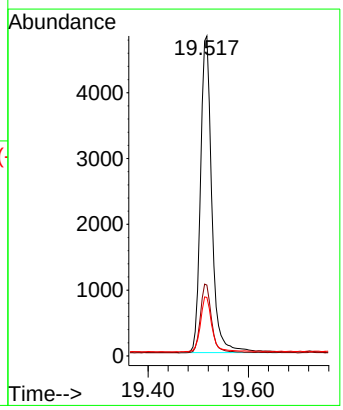
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

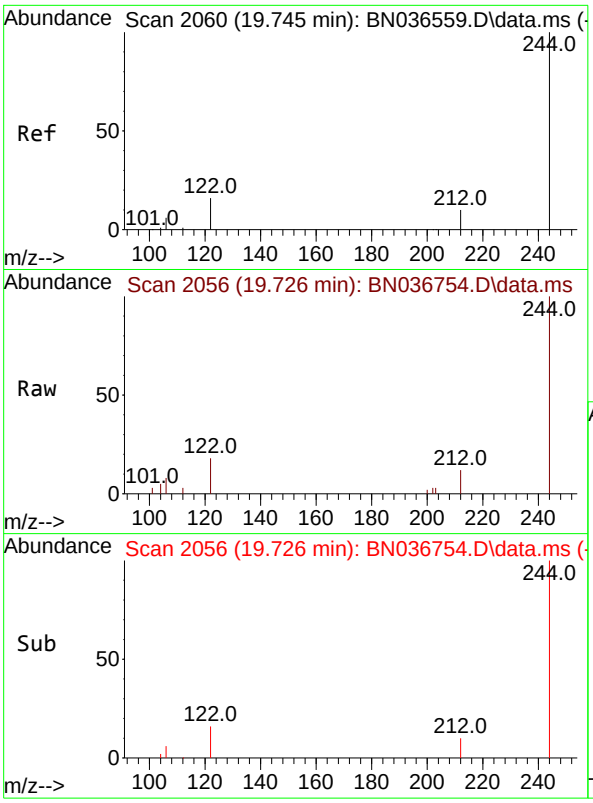


#30
Pyrene
Concen: 0.409 ng
RT: 19.517 min Scan# 2011
Delta R.T. -0.019 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:202 Resp: 7541

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.4	14.1	21.1

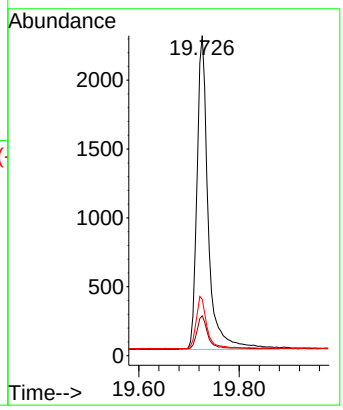




#31
Terphenyl-d14
Concen: 0.392 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:244 Resp: 354

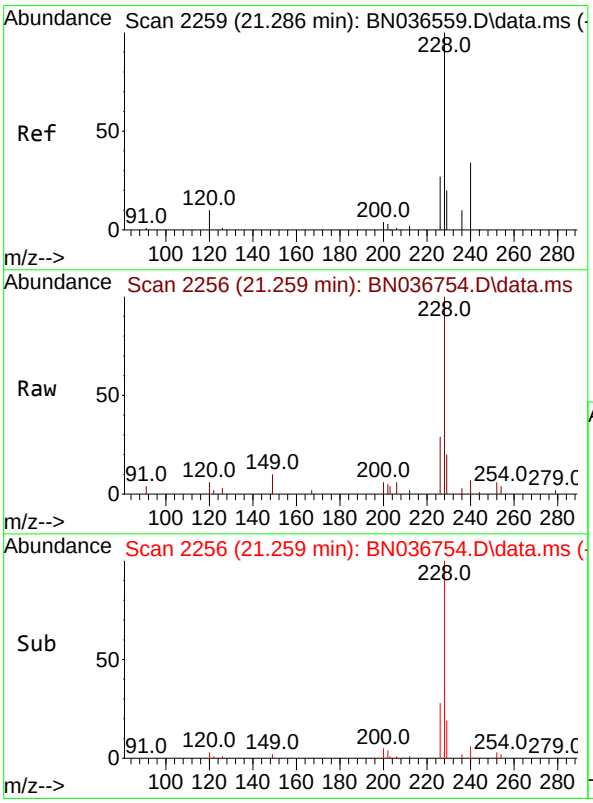
Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.6	14.4
122	17.6	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

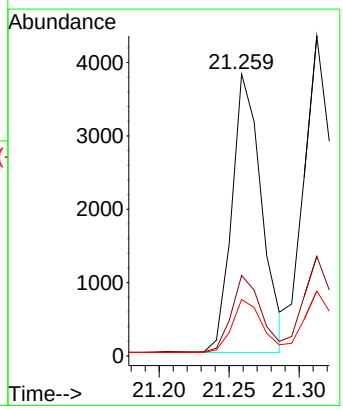
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

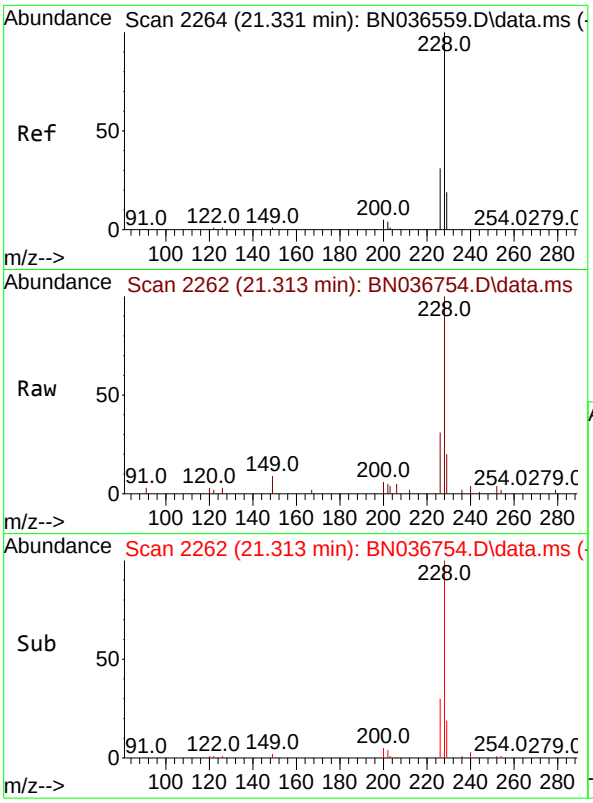


#32
Benzo(a)anthracene
Concen: 0.428 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:228 Resp: 5618

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.5	33.7
229	20.0	16.6	25.0

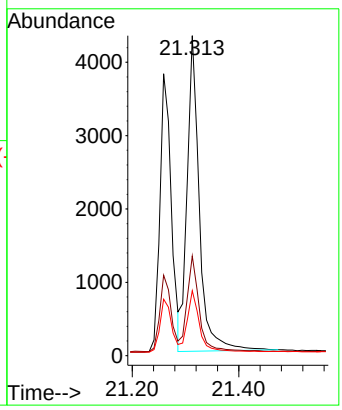




#33
Chrysene
Concen: 0.476 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:228 Resp: 682

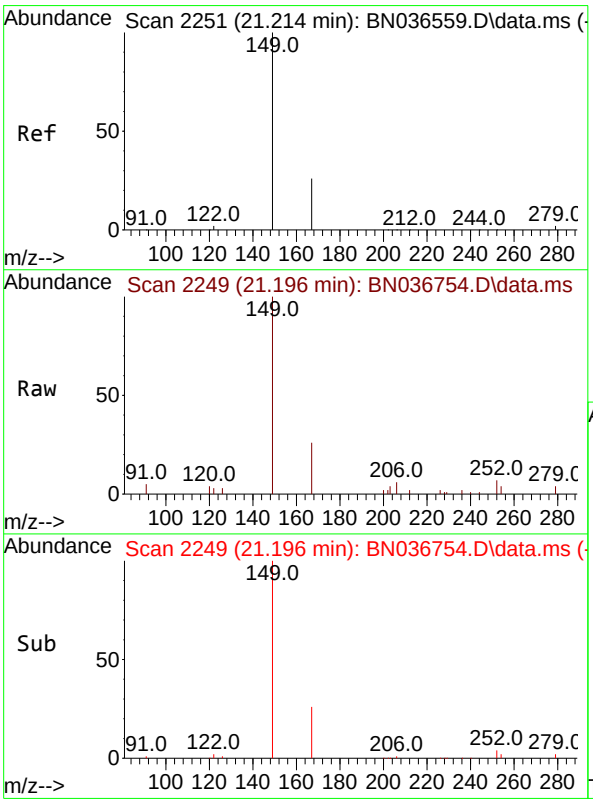
Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.3	37.9
229	20.3	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations APPROVED

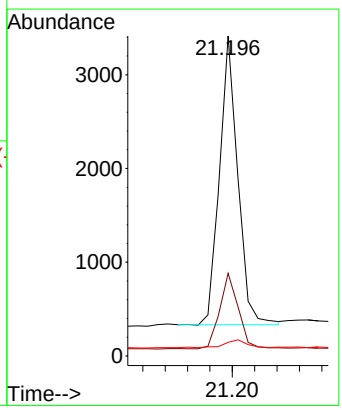
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

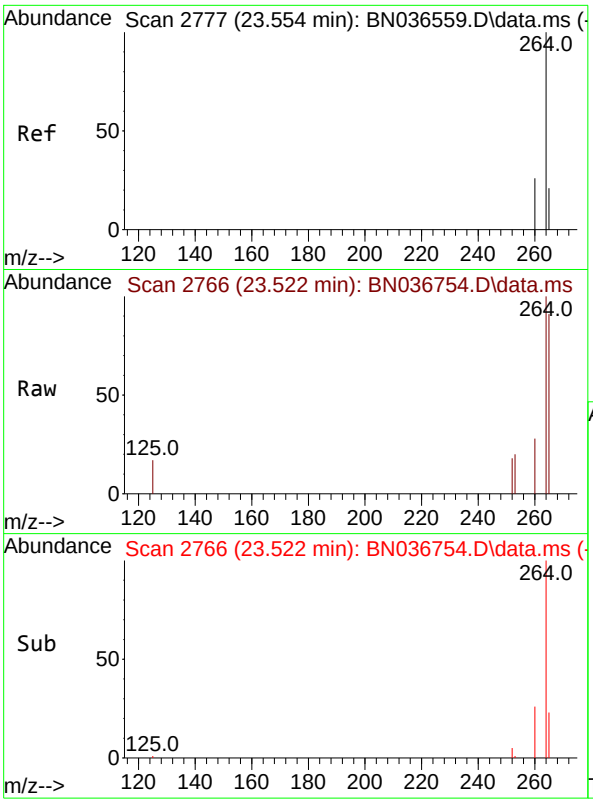


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.375 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:149 Resp: 3502

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.7	31.1
279	3.2	3.6	5.4#

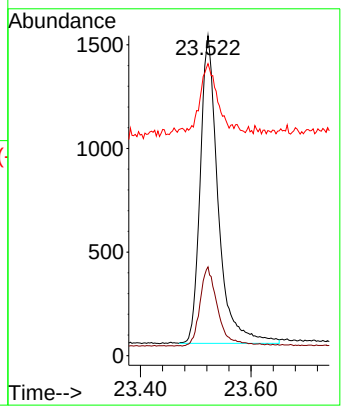




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:264 Resp: 334

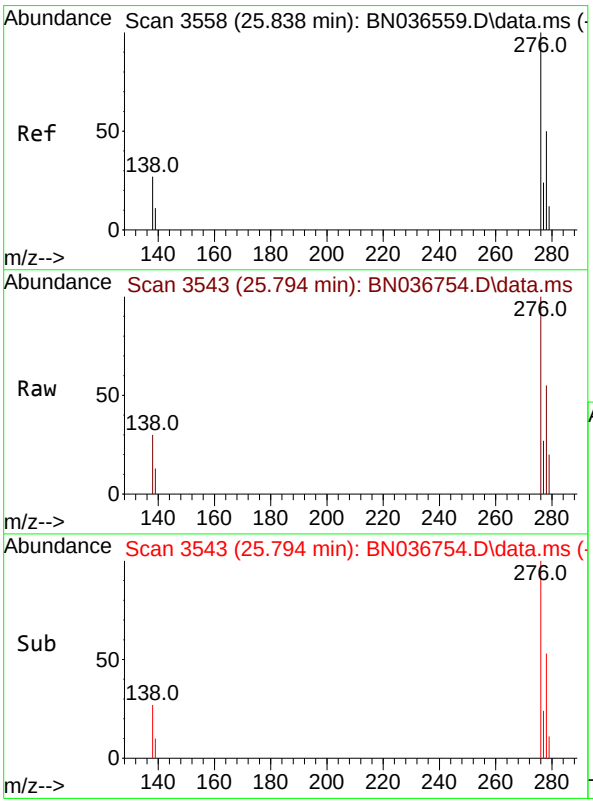
Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	91.3	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

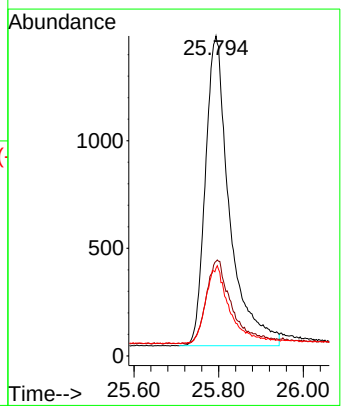
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

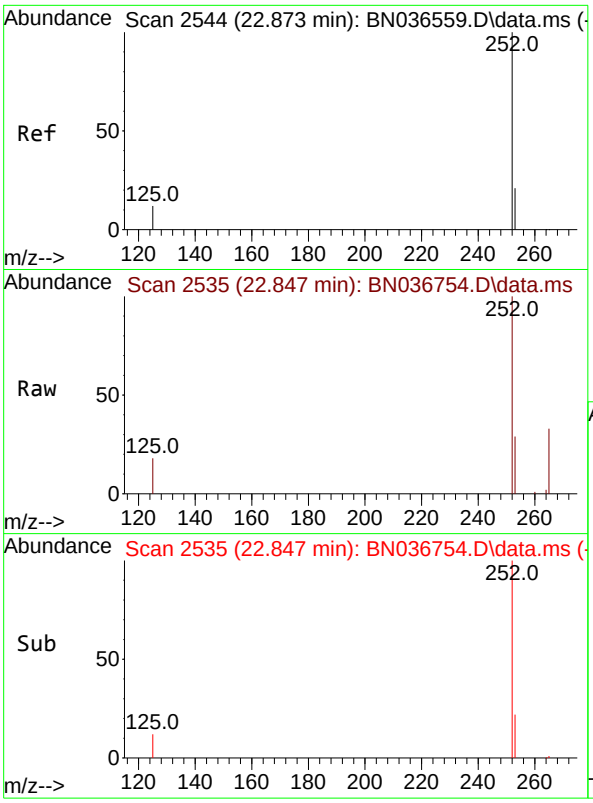


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.472 ng
RT: 25.794 min Scan# 3543
Delta R.T. -0.044 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:276 Resp: 5692

Ion	Ratio	Lower	Upper
276	100		
138	27.9	23.4	35.2
277	24.3	20.0	30.0

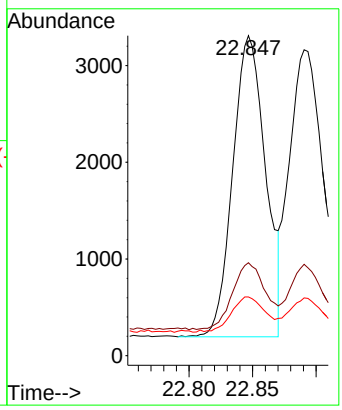




#37
Benzo(b)fluoranthene
Concen: 0.459 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:252 Resp: 558

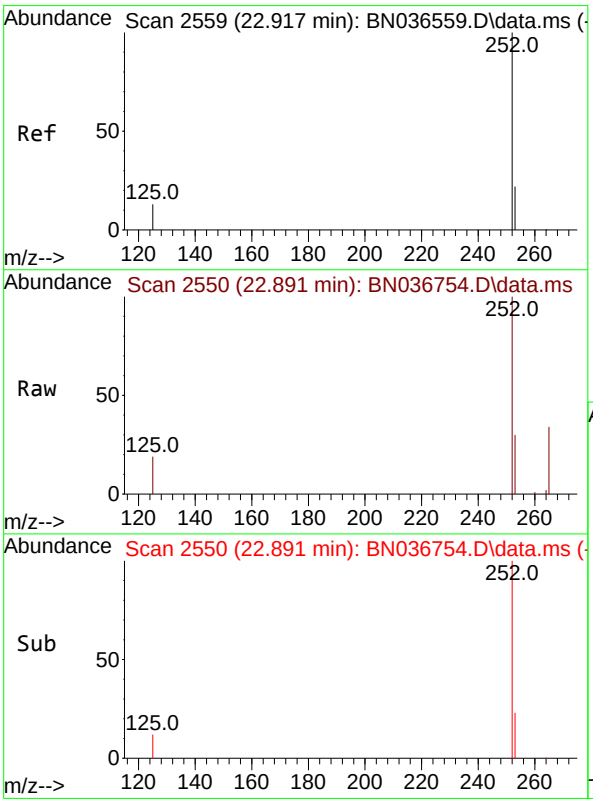
Ion	Ratio	Lower	Upper
252	100		
253	29.1	23.9	35.9
125	18.3	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

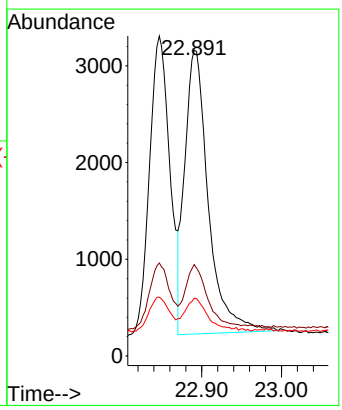
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

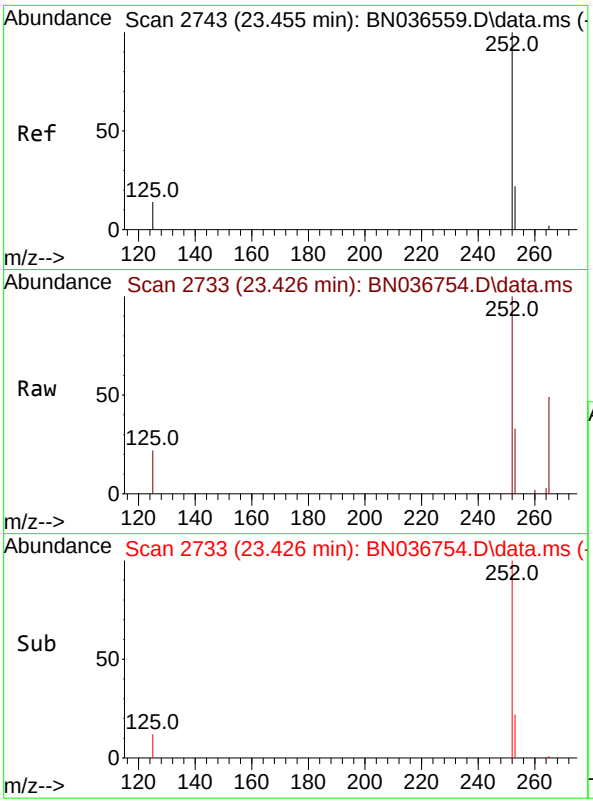


#38
Benzo(k)fluoranthene
Concen: 0.472 ng
RT: 22.891 min Scan# 2550
Delta R.T. -0.026 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:252 Resp: 6025

Ion	Ratio	Lower	Upper
252	100		
253	29.9	24.6	36.8
125	18.9	17.8	26.8

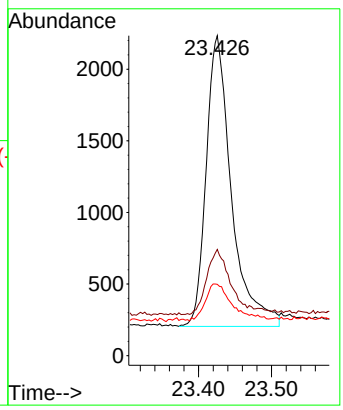




#39
Benzo(a)pyrene
Concen: 0.476 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:252 Resp: 487

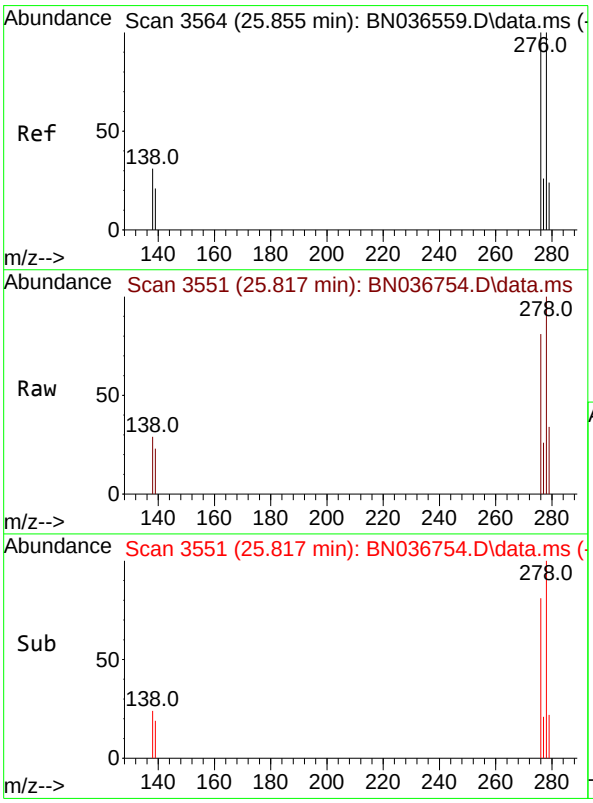
Ion	Ratio	Lower	Upper
252	100		
253	33.2	27.8	41.8
125	22.3	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

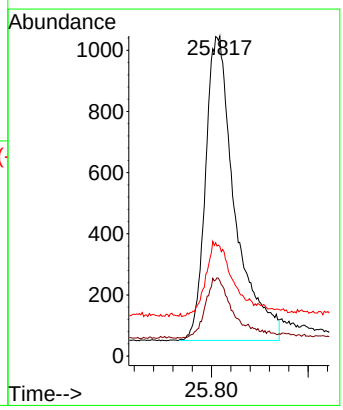
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

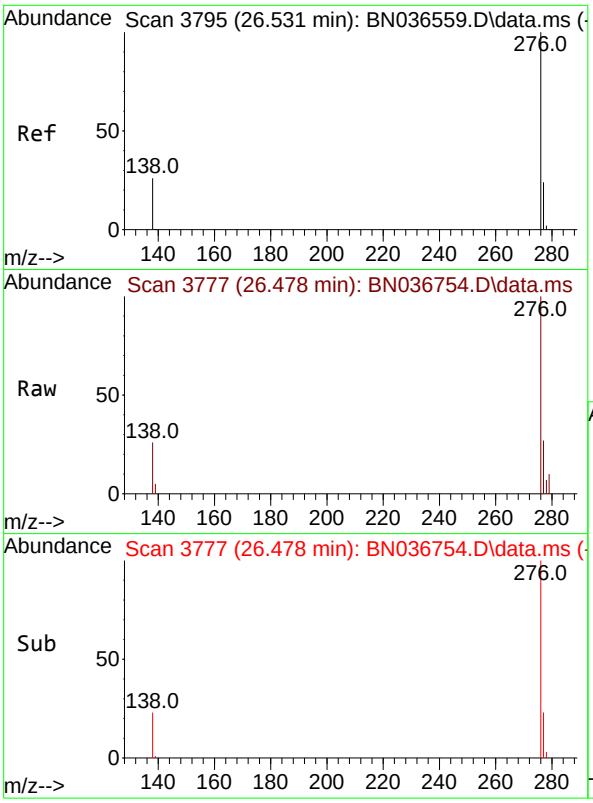


#40
Dibenzo(a,h)anthracene
Concen: 0.448 ng
RT: 25.817 min Scan# 3551
Delta R.T. -0.038 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:278 Resp: 4207

Ion	Ratio	Lower	Upper
278	100		
139	23.5	20.8	31.2
279	34.3	28.8	43.2

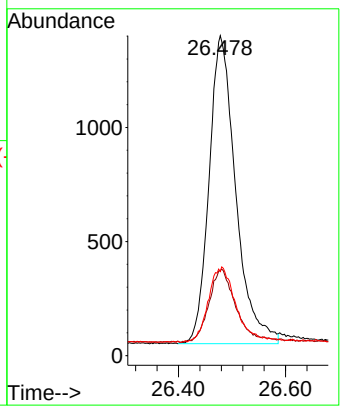




#41
Benzo(g,h,i)perylene
Concen: 0.434 ng
RT: 26.478 min Scan# 3
Delta R.T. -0.053 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:276 Resp: 466

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	26.3	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167232BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB167251BS	SDG No.:	Q1608
Lab Sample ID:	PB167251BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036787.D	1	03/21/25 08:40	03/28/25 23:38	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.34		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.44		30 - 150		111%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1520	7.695				
1146-65-2	Naphthalene-d8	3730	10.487				
15067-26-2	Acenaphthene-d10	2160	14.334				
1517-22-2	Phenanthrene-d10	4680	17.086				
1719-03-5	Chrysene-d12	3640	21.277				
1520-96-3	Perylene-d12	3060	23.516				

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\BN032825\
Data File : BN036787.D
Acq On : 28 Mar 2025 23:38
Operator : RC/JU
Sample : PB167251BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 31 10:41:54 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 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1517	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3731	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2164	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4675	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3635	0.400	ng	#-0.02
35) Perylene-d12	23.516	264	3061	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1565	0.443	ng	-0.02
5) Phenol-d6	6.872	99	1831	0.419	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1471	0.362	ng	-0.03
11) 2-Methylnaphthalene-d10	12.080	152	2454m	0.442	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	402	0.409	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4848	0.385	ng	-0.03
27) Fluoranthene-d10	19.118	212	4771	0.398	ng	-0.02
31) Terphenyl-d14	19.722	244	3358	0.386	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	573	0.340	ng	# 36
3) n-Nitrosodimethylamine	3.535	42	1554	0.456	ng	# 93
6) bis(2-Chloroethyl)ether	7.125	93	1795	0.398	ng	96
9) Naphthalene	10.530	128	4490	0.409	ng	99
10) Hexachlorobutadiene	10.818	225	1081	0.418	ng	# 96
12) 2-Methylnaphthalene	12.151	142	2927	0.419	ng	99
16) Acenaphthylene	14.056	152	4615	0.452	ng	98
17) Acenaphthene	14.398	154	2946	0.441	ng	99
18) Fluorene	15.392	166	3928	0.434	ng	98
20) 4,6-Dinitro-2-methylph...	15.478	198	374	0.459	ng	84
21) 4-Bromophenyl-phenylether	16.279	248	1254	0.428	ng	91
22) Hexachlorobenzene	16.391	284	1431	0.405	ng	94
23) Atrazine	16.553	200	1102	0.469	ng	97
24) Pentachlorophenol	16.739	266	918	0.569	ng	96
25) Phenanthrene	17.124	178	6323	0.451	ng	100
26) Anthracene	17.223	178	5693	0.450	ng	99
28) Fluoranthene	19.150	202	7014	0.445	ng	98
30) Pyrene	19.513	202	7319	0.412	ng	99
32) Benzo(a)anthracene	21.259	228	5474	0.433	ng	99
33) Chrysene	21.313	228	6453	0.467	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3700	0.411	ng	99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5268	0.477	ng	# 82
37) Benzo(b)fluoranthene	22.841	252	5149	0.462	ng	96
38) Benzo(k)fluoranthene	22.885	252	5430m	0.465	ng	
39) Benzo(a)pyrene	23.420	252	4679	0.499	ng	# 93
40) Dibenzo(a,h)anthracene	25.802	278	3944	0.459	ng	95
41) Benzo(g,h,i)perylene	26.472	276	4262	0.433	ng	96

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

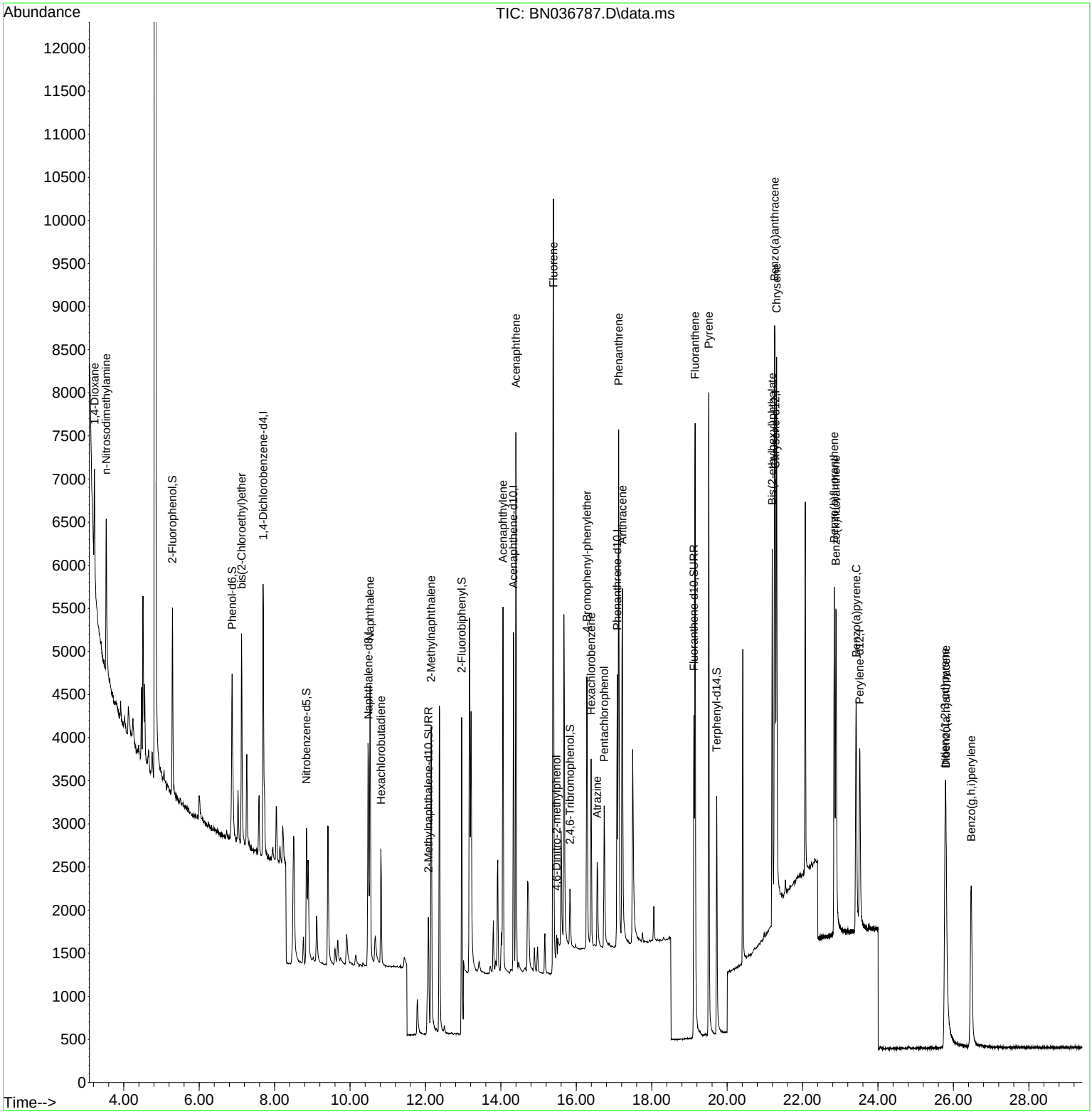
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036787.D
Acq On : 28 Mar 2025 23:38
Operator : RC/JU
Sample : PB167251BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

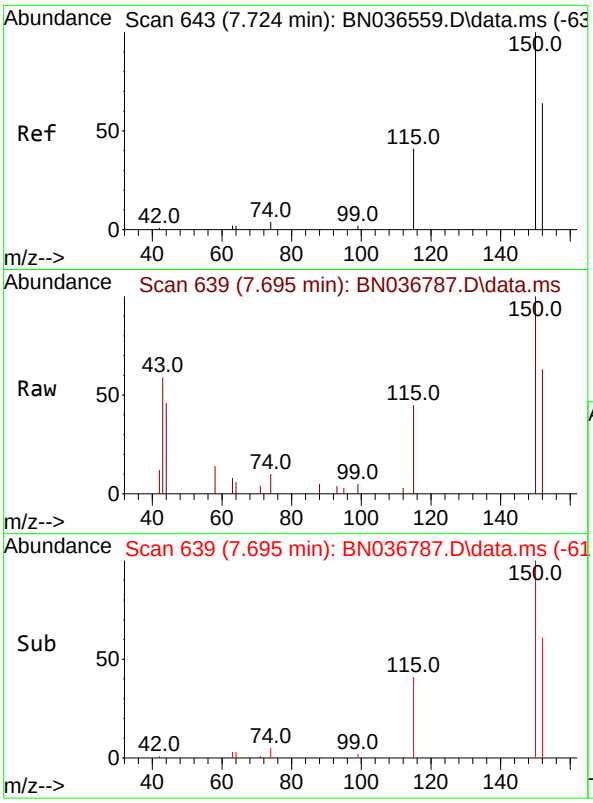
Quant Time: Mar 31 10:41:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

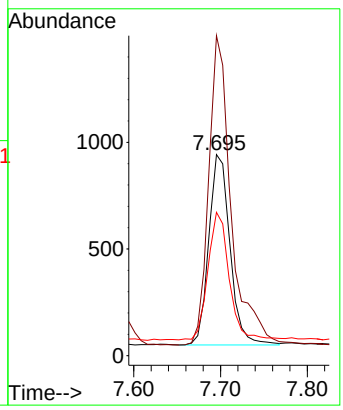




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:152 Resp: 151

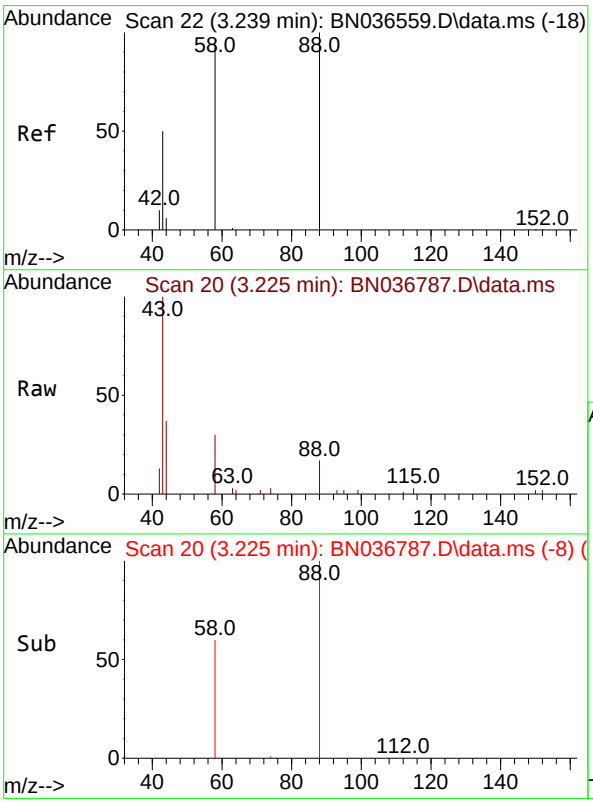
Ion	Ratio	Lower	Upper
152	100		
150	159.1	123.7	185.5
115	71.3	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

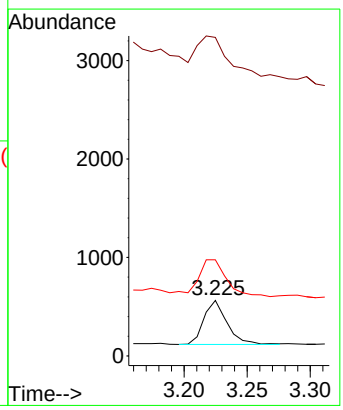
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

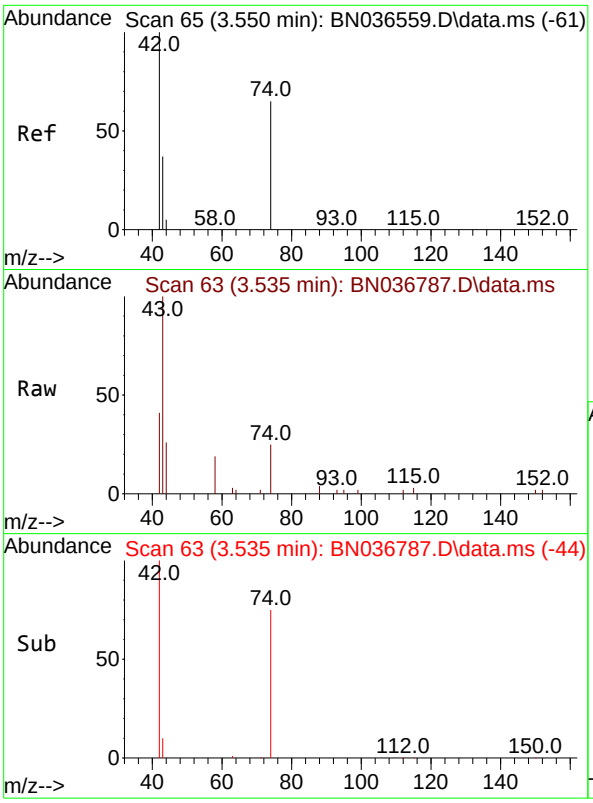


#2
1,4-Dioxane
Concen: 0.340 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion: 88 Resp: 573

Ion	Ratio	Lower	Upper
88	100		
43	142.4	37.8	56.8#
58	103.3	67.4	101.2#

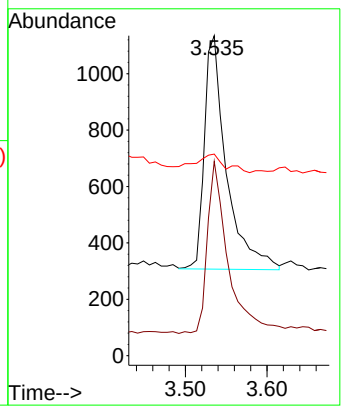




#3
n-Nitrosodimethylamine
Concen: 0.456 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion: 42 Resp: 155

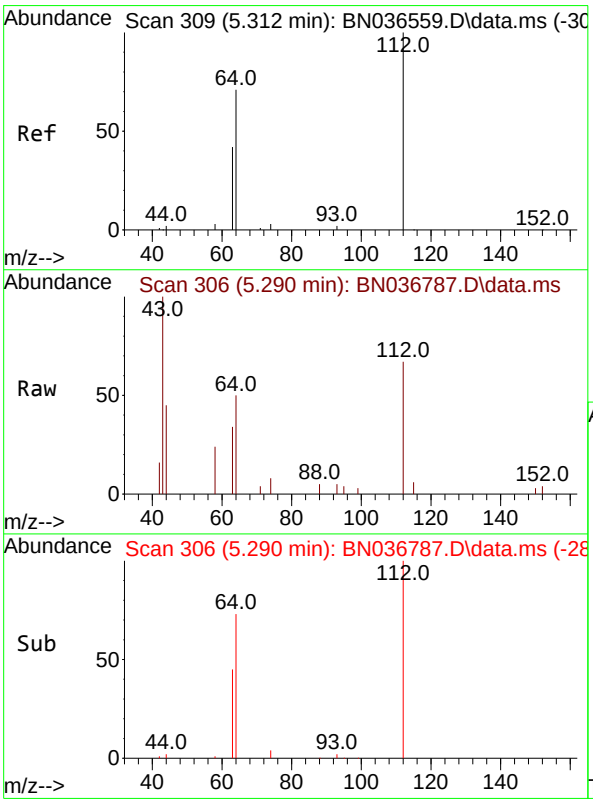
Ion	Ratio	Lower	Upper
42	100		
74	69.8	60.6	90.8
44	11.2	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

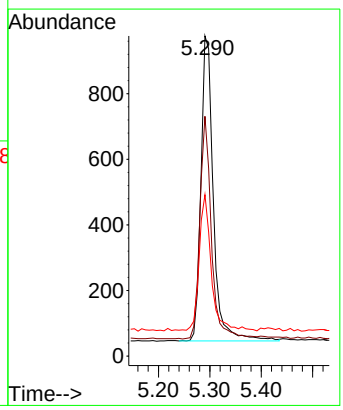
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

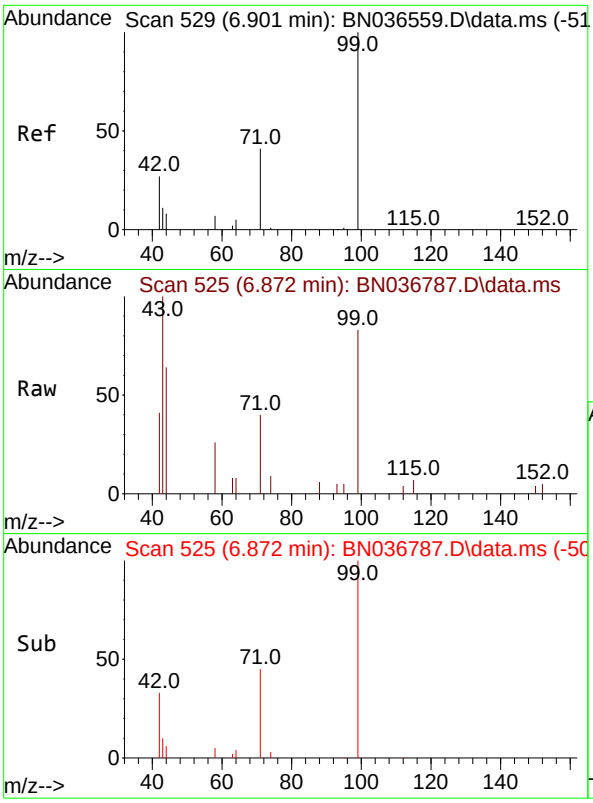


#4
2-Fluorophenol
Concen: 0.443 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:112 Resp: 1565

Ion	Ratio	Lower	Upper
112	100		
64	67.7	53.1	79.7
63	43.3	31.8	47.8

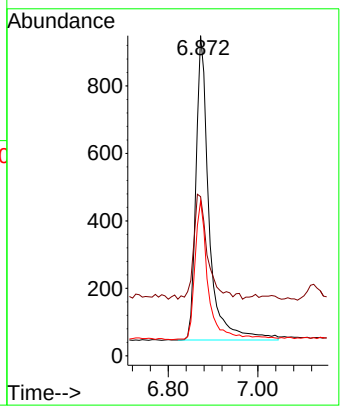




#5
Phenol-d6
Concen: 0.419 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion: 99 Resp: 183

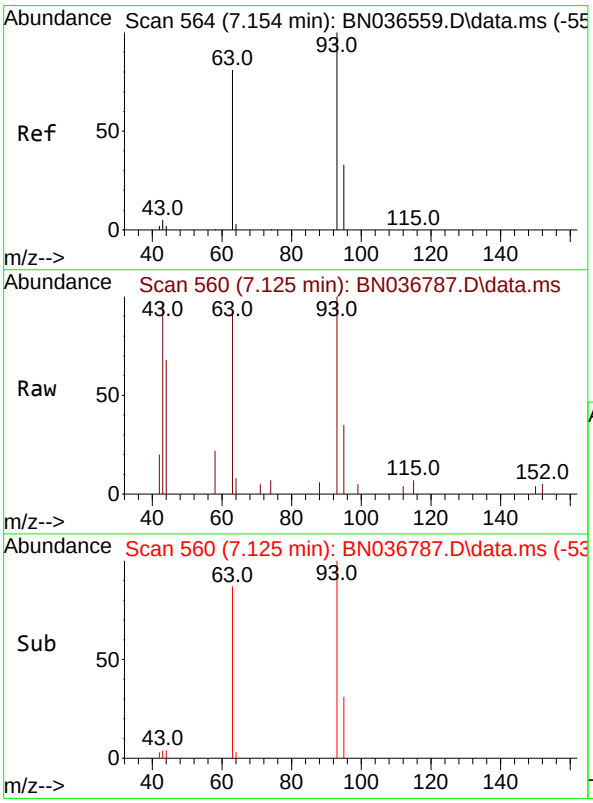
Ion	Ratio	Lower	Upper
99	100		
42	36.2	26.5	39.7
71	46.7	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations APPROVED

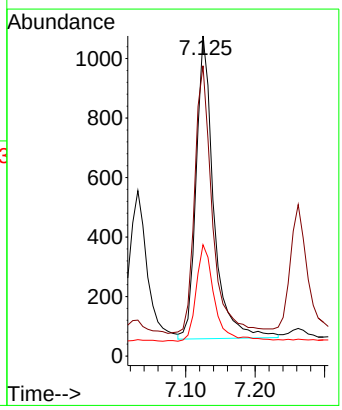
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

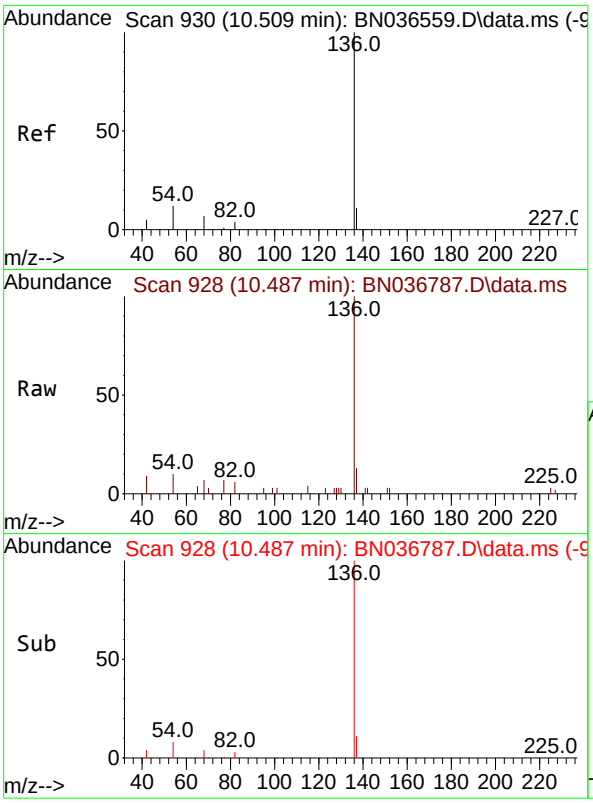


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion: 93 Resp: 1795

Ion	Ratio	Lower	Upper
93	100		
63	88.7	67.7	101.5
95	33.2	25.6	38.4

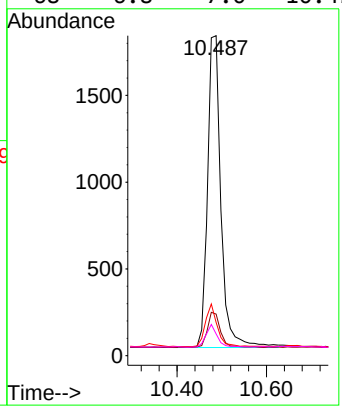




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:136 Resp: 373

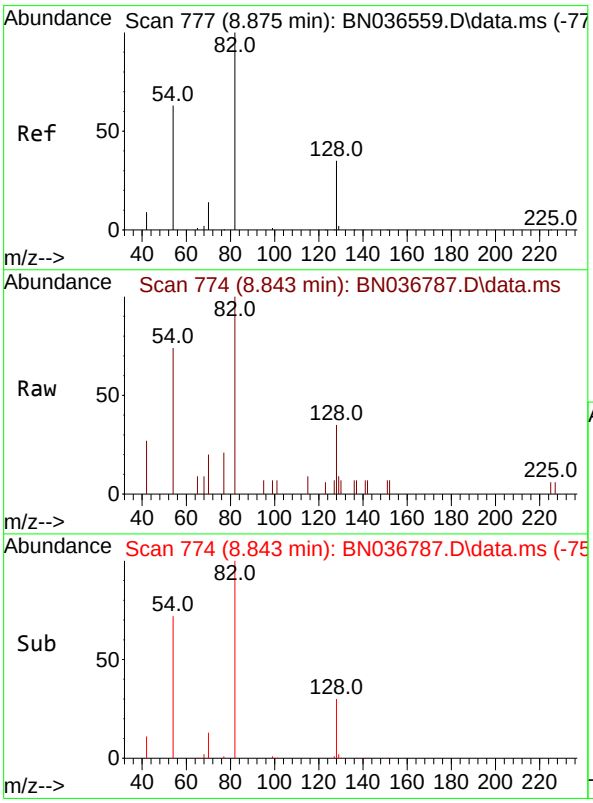
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	10.4	11.5	17.3#
68	6.8	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

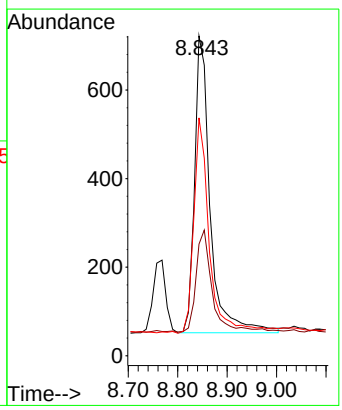
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

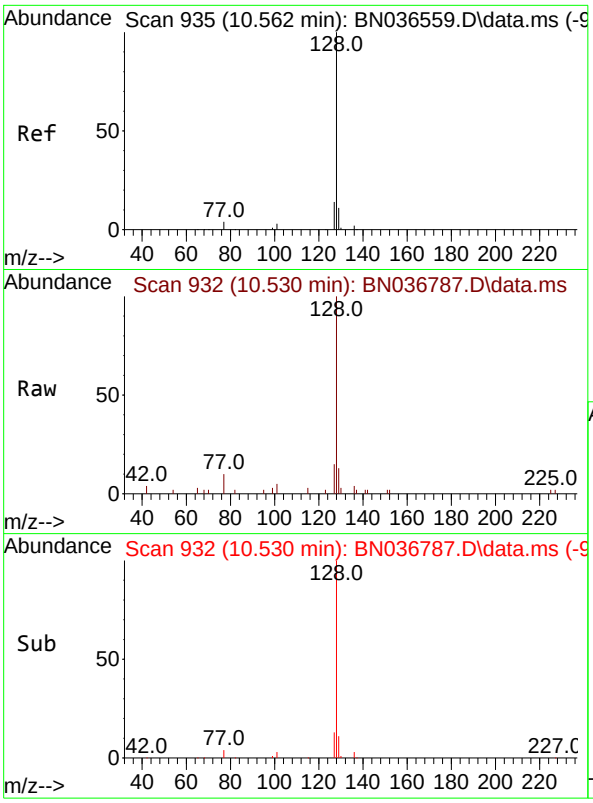


#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion: 82 Resp: 1471

Ion	Ratio	Lower	Upper
82	100		
128	34.9	30.6	45.8
54	74.4	52.2	78.4

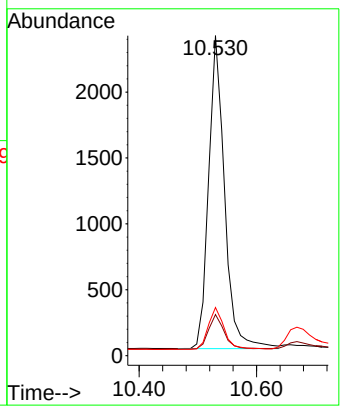




#9
Naphthalene
Concen: 0.409 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:128 Resp: 449

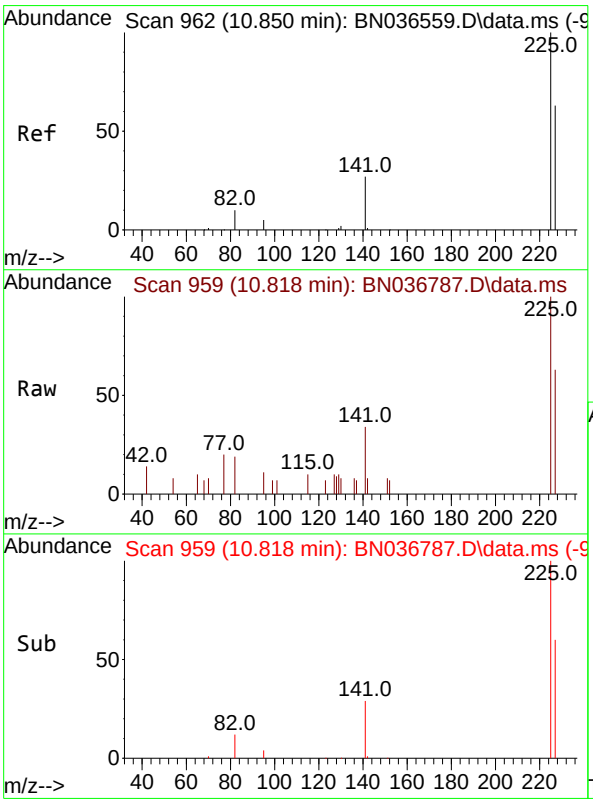
Ion	Ratio	Lower	Upper
128	100		
129	12.9	9.8	14.6
127	15.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

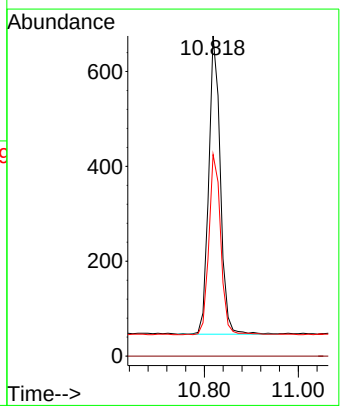
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

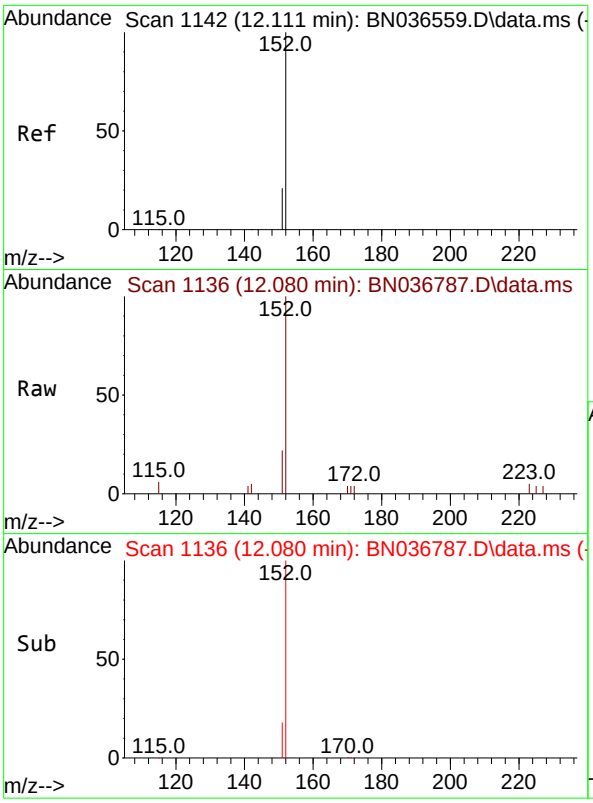


#10
Hexachlorobutadiene
Concen: 0.418 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:225 Resp: 1081

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.9	51.8	77.8

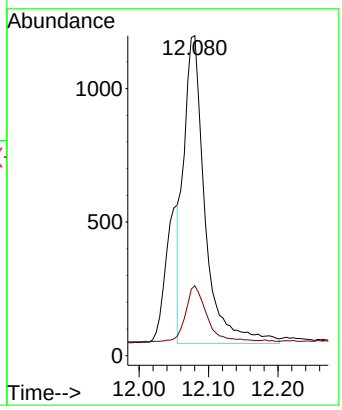




#11
2-Methylnaphthalene-d10
Concen: 0.442 ng m
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:152 Resp: 245

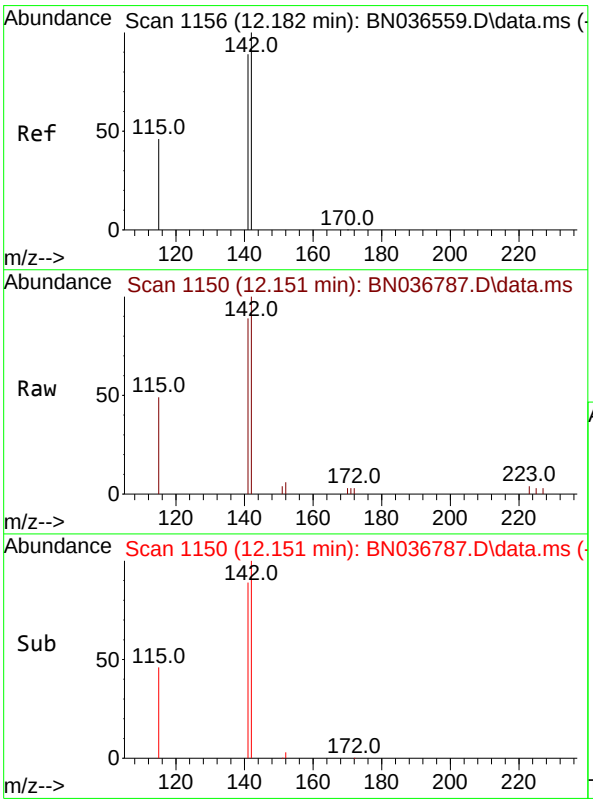
Ion	Ratio	Lower	Upper
152	100		
151	18.7	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

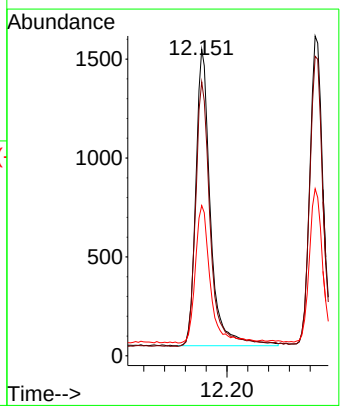
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

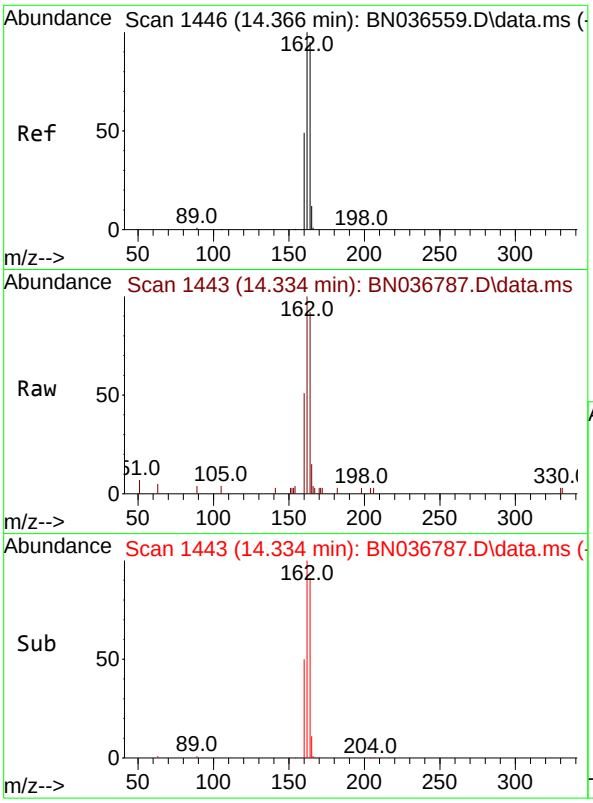


#12
2-Methylnaphthalene
Concen: 0.419 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:142 Resp: 2927

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.7	107.5
115	49.0	38.3	57.5

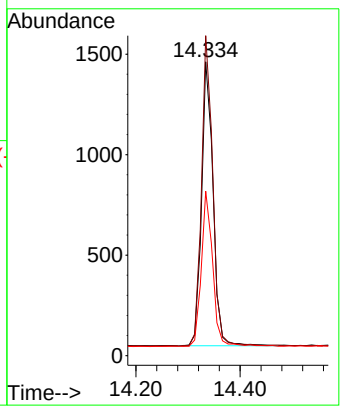




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:164 Resp: 2164

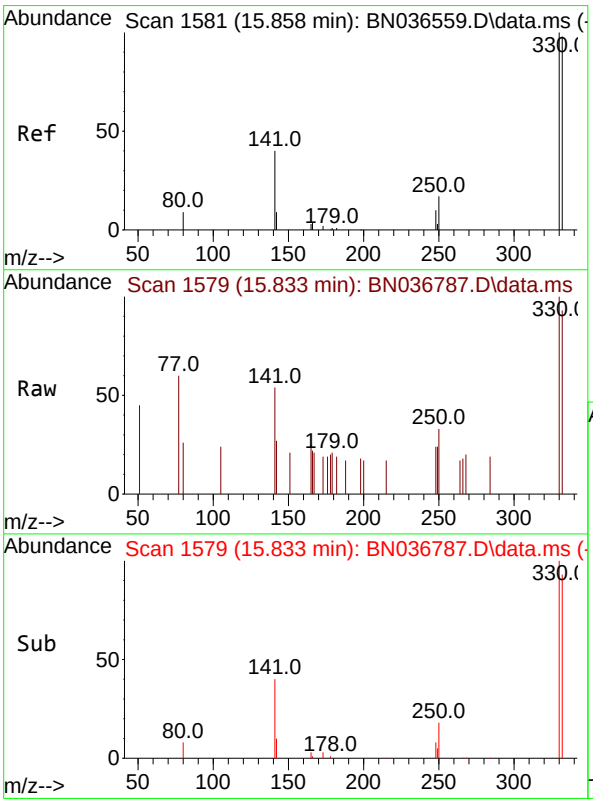
Ion	Ratio	Lower	Upper
164	100		
162	108.9	84.2	126.2
160	56.0	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

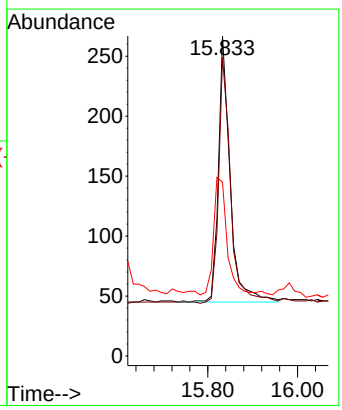
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

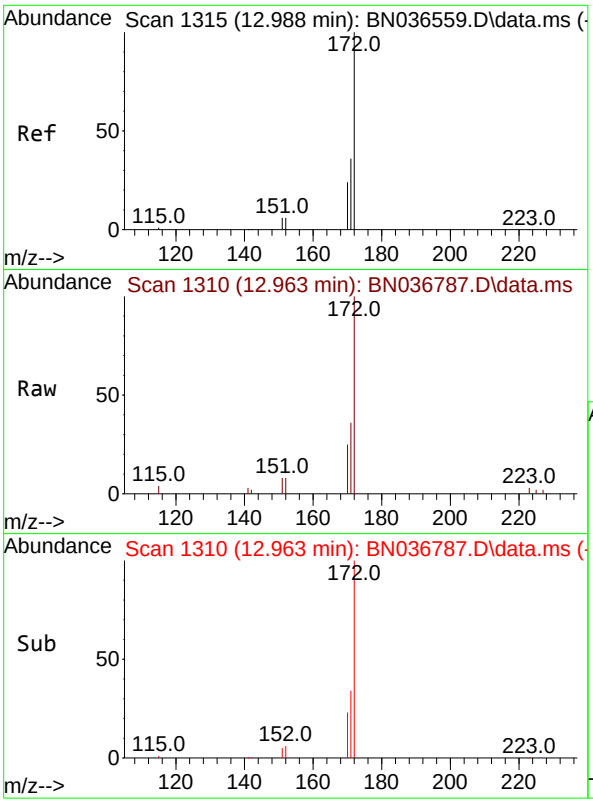


#14
2,4,6-Tribromophenol
Concen: 0.409 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:330 Resp: 402

Ion	Ratio	Lower	Upper
330	100		
332	95.5	75.2	112.8
141	51.2	43.4	65.2

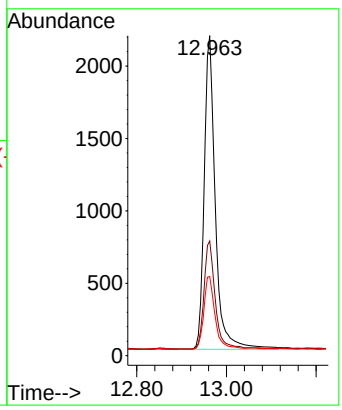




#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:172 Resp: 484

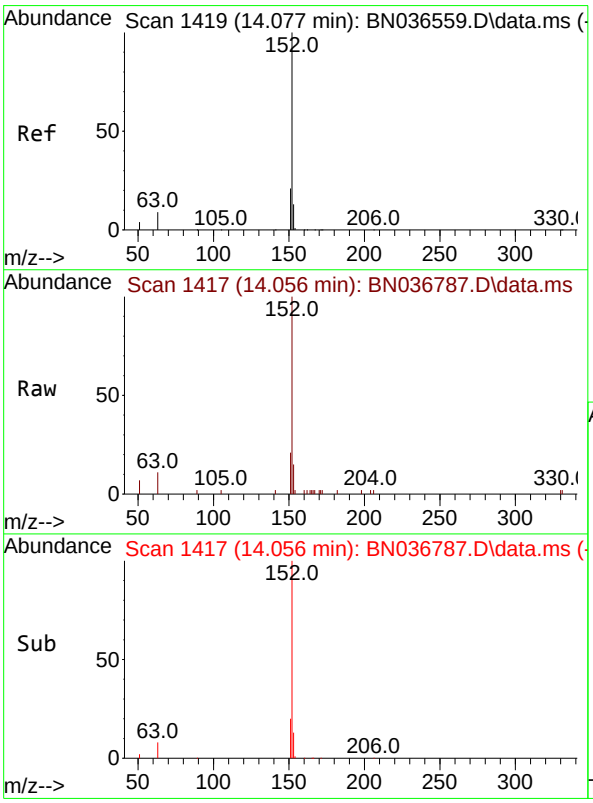
Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.5	44.3
170	24.8	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

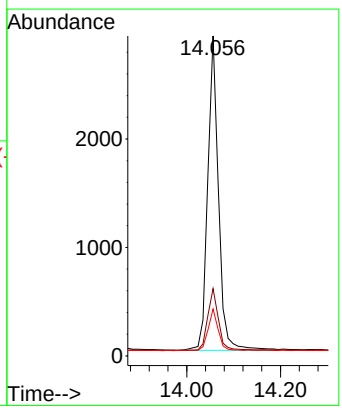
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

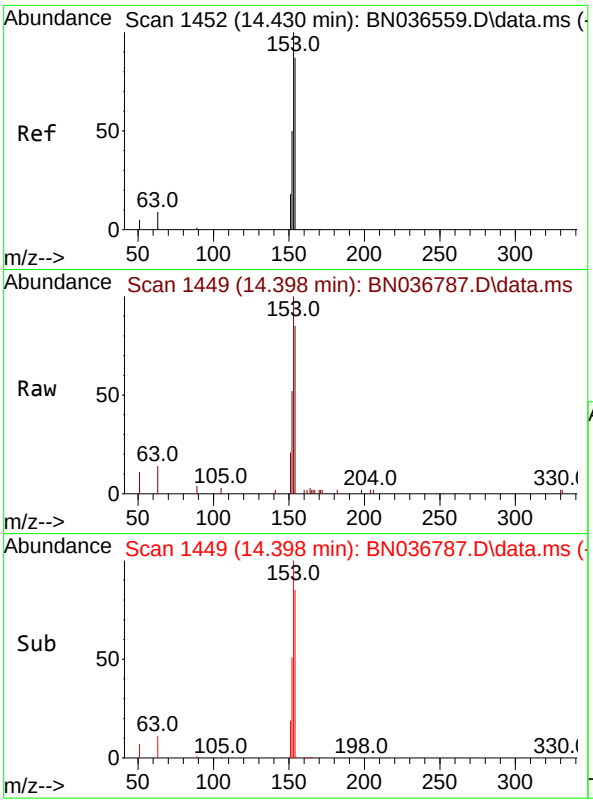


#16
Acenaphthylene
Concen: 0.452 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:152 Resp: 4615

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.2	24.4
153	12.6	10.6	15.8

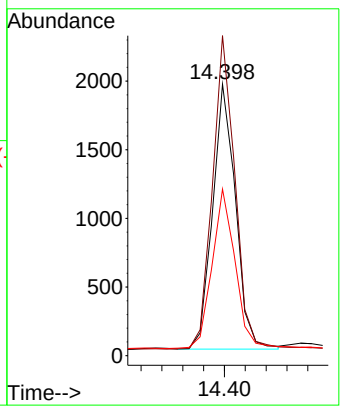




#17
Acenaphthene
Concen: 0.441 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:154 Resp: 294

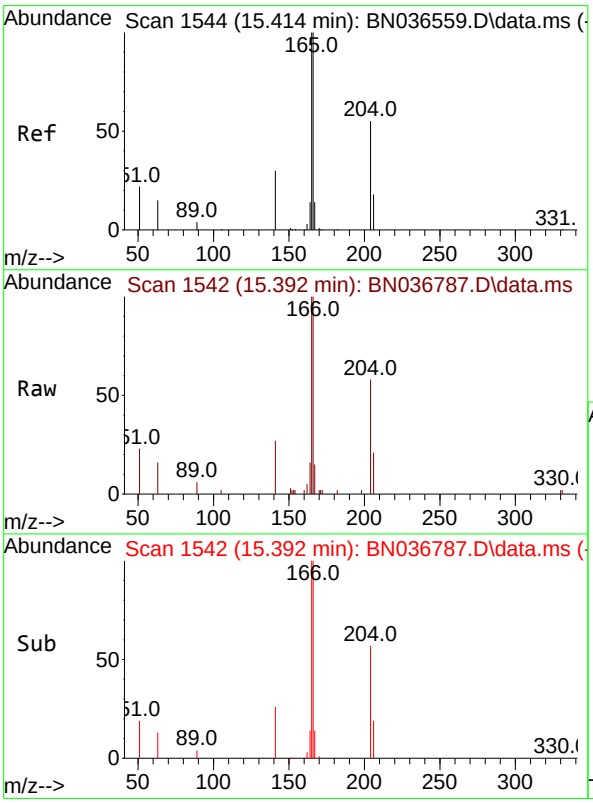
Ion	Ratio	Lower	Upper
154	100		
153	116.7	94.1	141.1
152	61.2	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

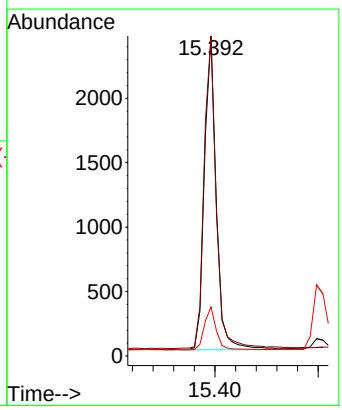
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

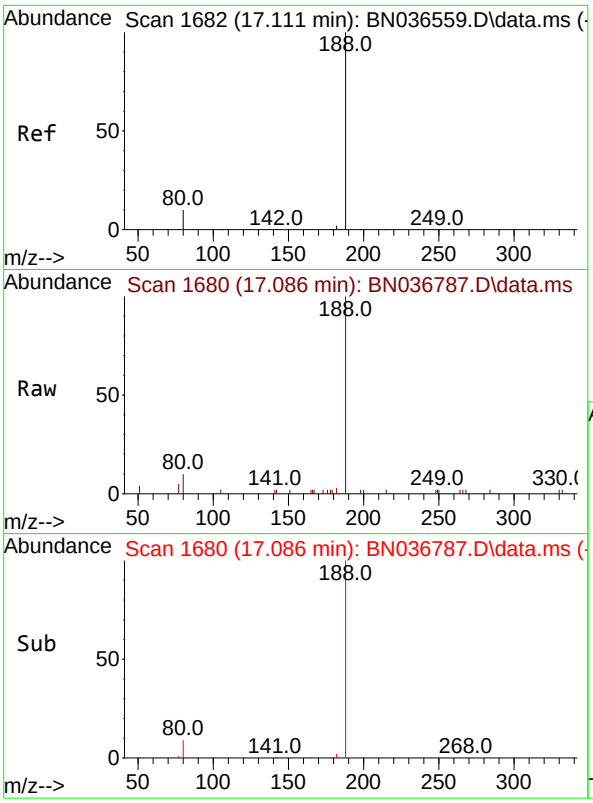


#18
Fluorene
Concen: 0.434 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:166 Resp: 3928

Ion	Ratio	Lower	Upper
166	100		
165	101.8	79.8	119.8
167	13.8	10.6	15.8

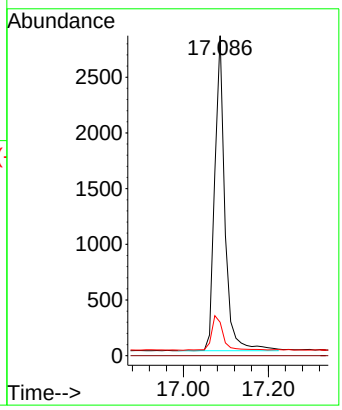




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:188 Resp: 467

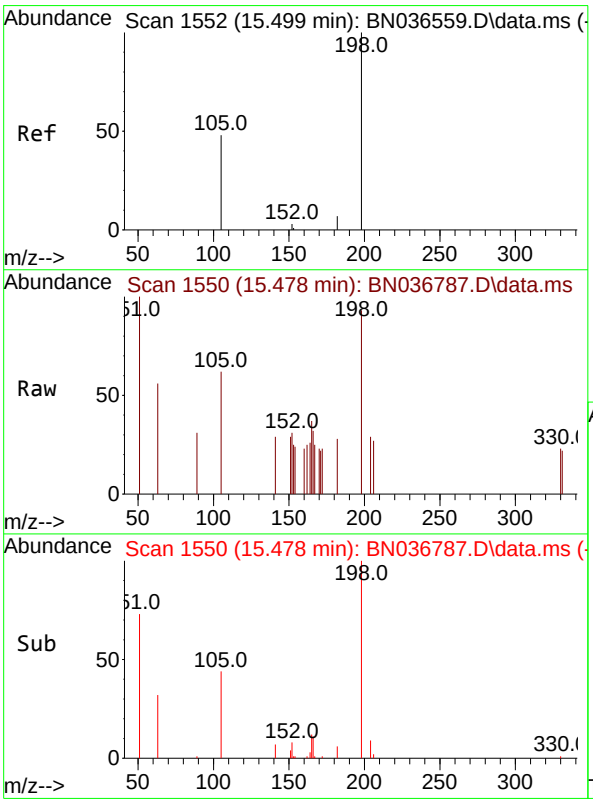
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

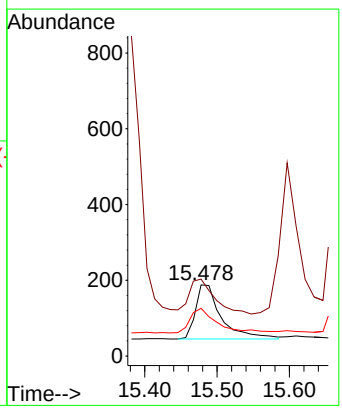
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

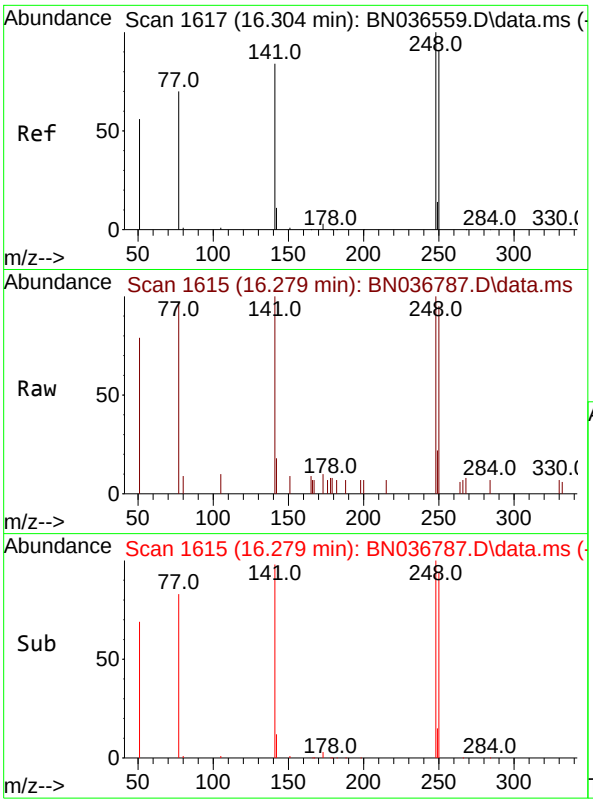


#20
4,6-Dinitro-2-methylphenol
Concen: 0.459 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:198 Resp: 374

Ion	Ratio	Lower	Upper
198	100		
51	108.0	107.9	161.9
105	67.0	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.279 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

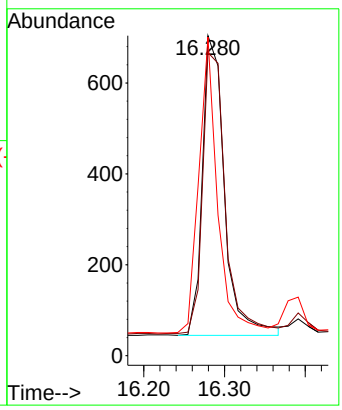
Tgt Ion:248 Resp: 125

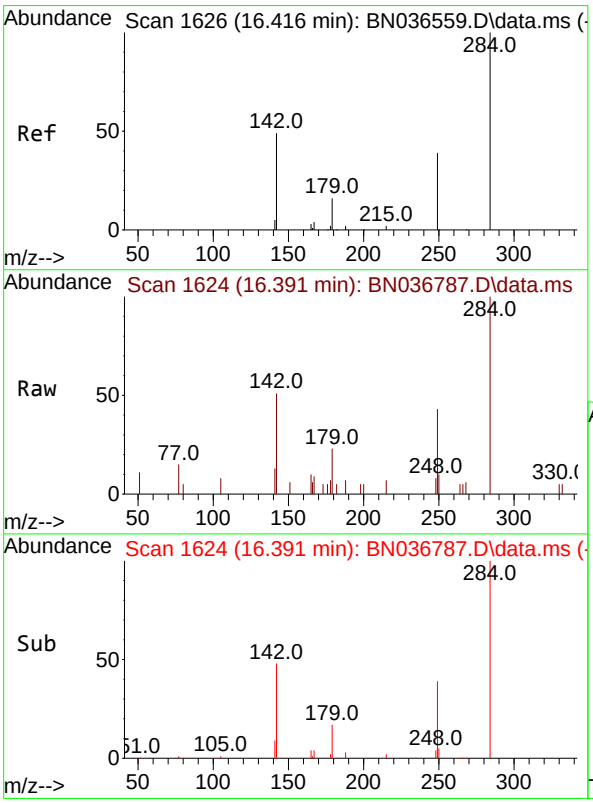
Ion	Ratio	Lower	Upper
248	100		
250	94.7	73.0	109.6
141	99.6	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

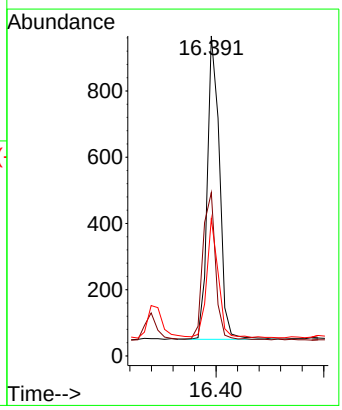


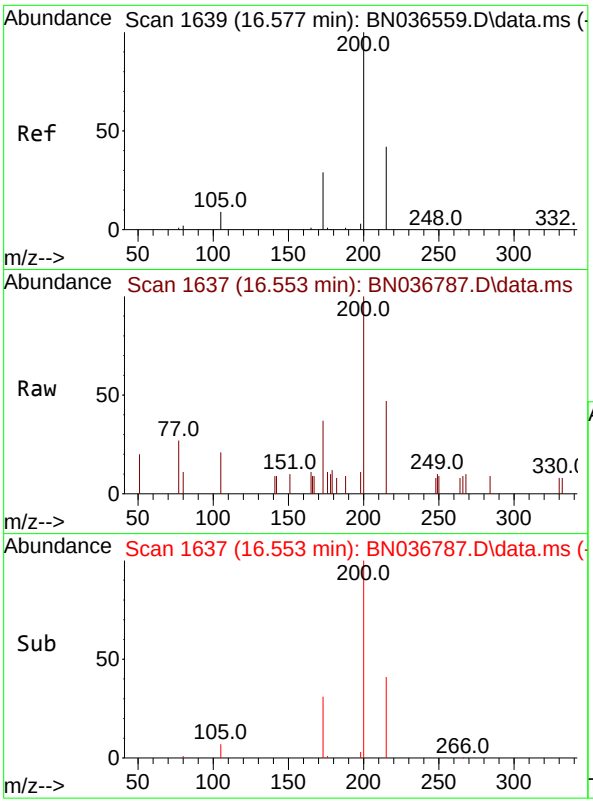


#22
Hexachlorobenzene
Concen: 0.405 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:284 Resp: 1431

Ion	Ratio	Lower	Upper
284	100		
142	51.2	37.0	55.4
249	37.4	28.1	42.1

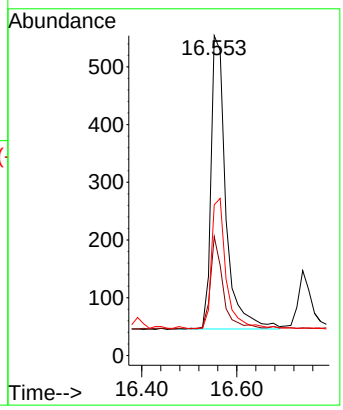




#23
Atrazine
Concen: 0.469 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:200 Resp: 110

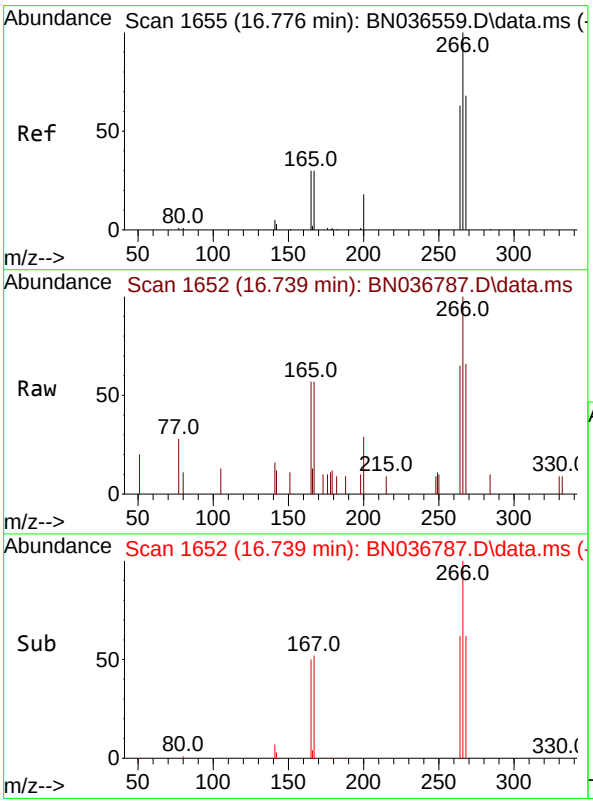
Ion	Ratio	Lower	Upper
200	100		
173	37.2	27.3	40.9
215	47.1	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

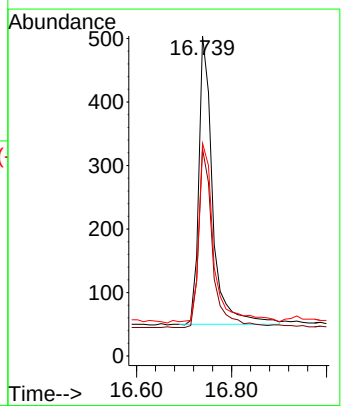
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

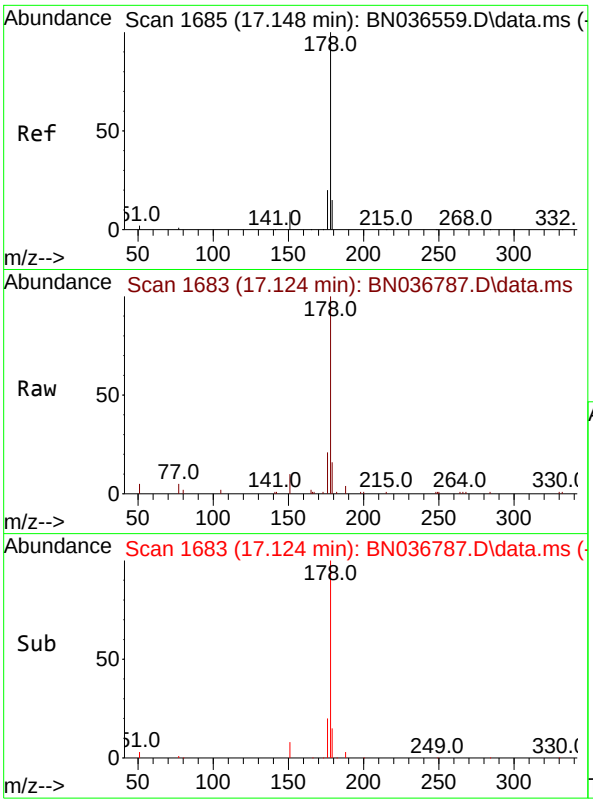


#24
Pentachlorophenol
Concen: 0.569 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:266 Resp: 918

Ion	Ratio	Lower	Upper
266	100		
264	62.1	49.6	74.4
268	69.1	50.9	76.3

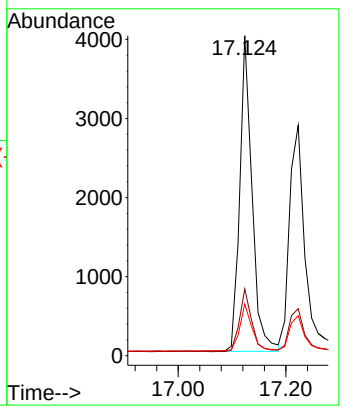




#25
Phenanthrene
Concen: 0.451 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:178 Resp: 632

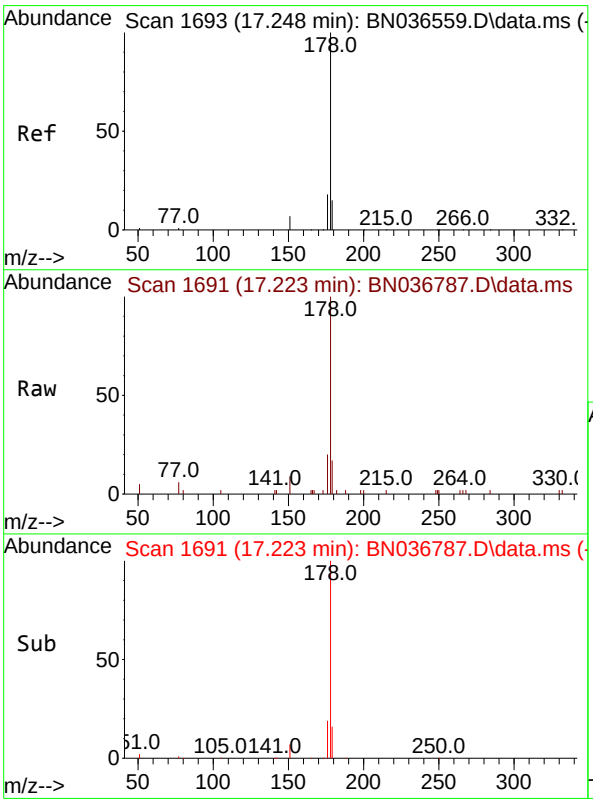
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.0	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
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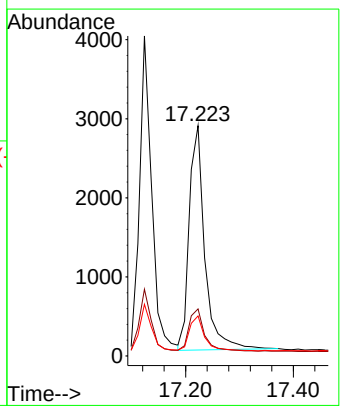
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

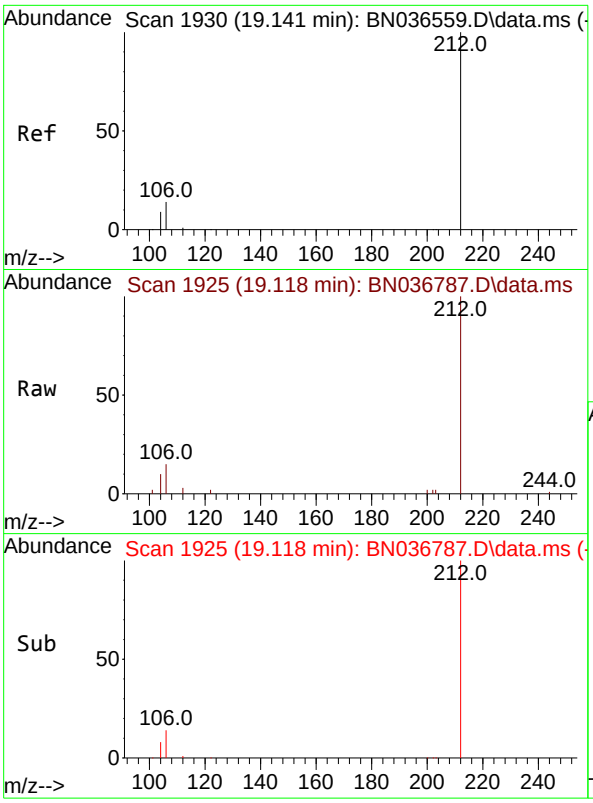


#26
Anthracene
Concen: 0.450 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:178 Resp: 5693

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

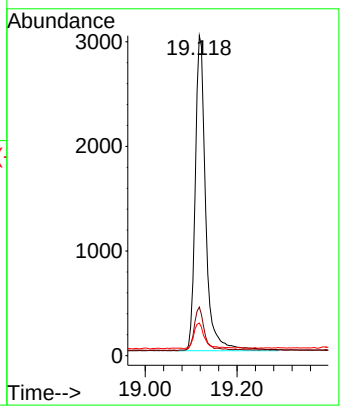




#27
Fluoranthene-d10
Concen: 0.398 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:212 Resp: 477

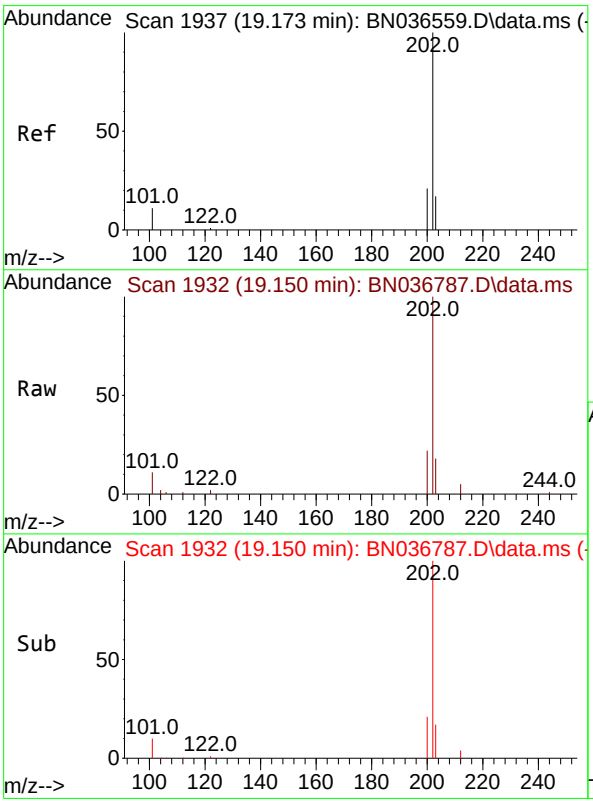
Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.8	17.6
104	8.7	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

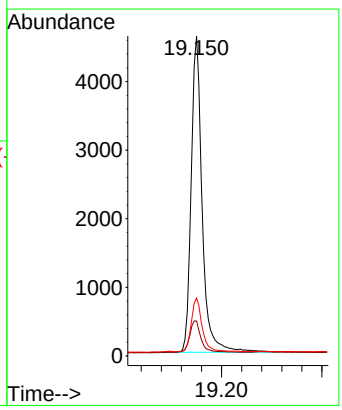
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

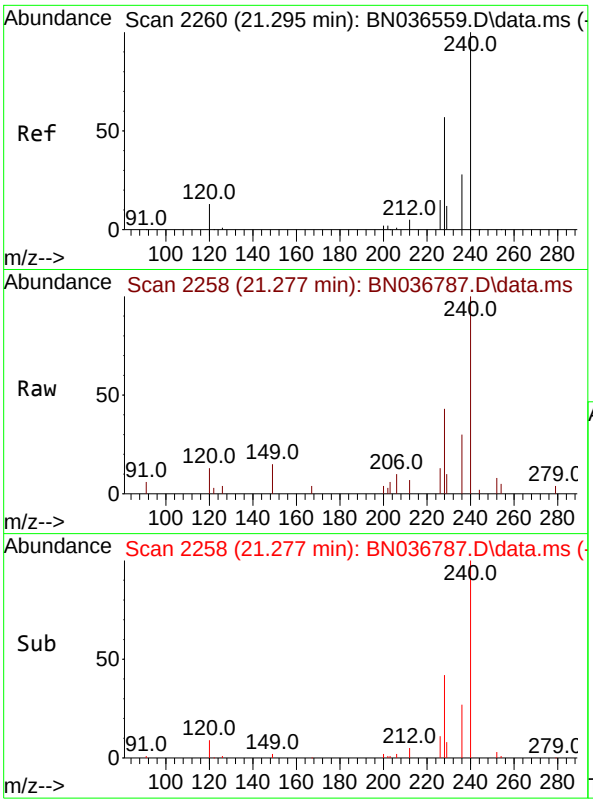


#28
Fluoranthene
Concen: 0.445 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:202 Resp: 7014

Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.4	14.0
203	17.2	13.5	20.3

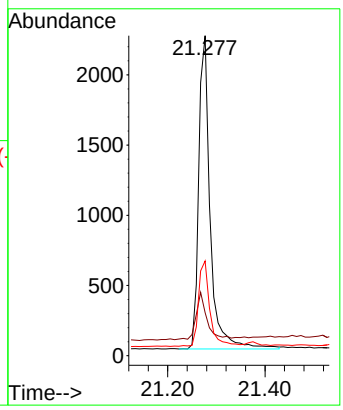




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:240 Resp: 363

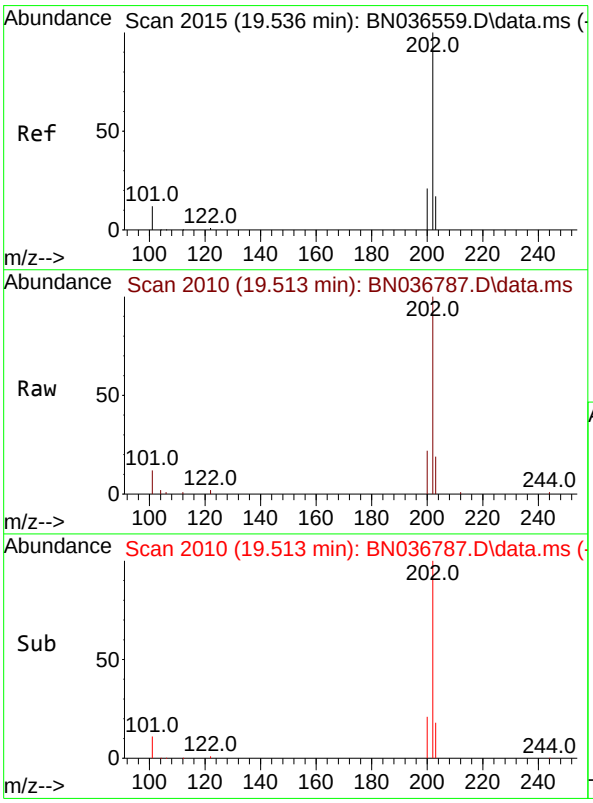
Ion	Ratio	Lower	Upper
240	100		
120	13.5	14.6	22.0
236	29.6	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

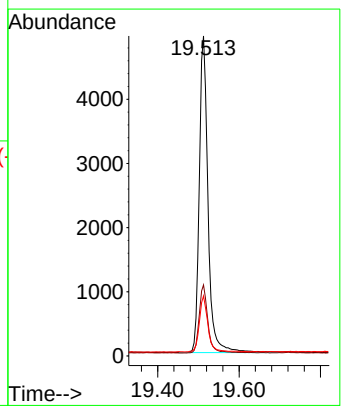
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

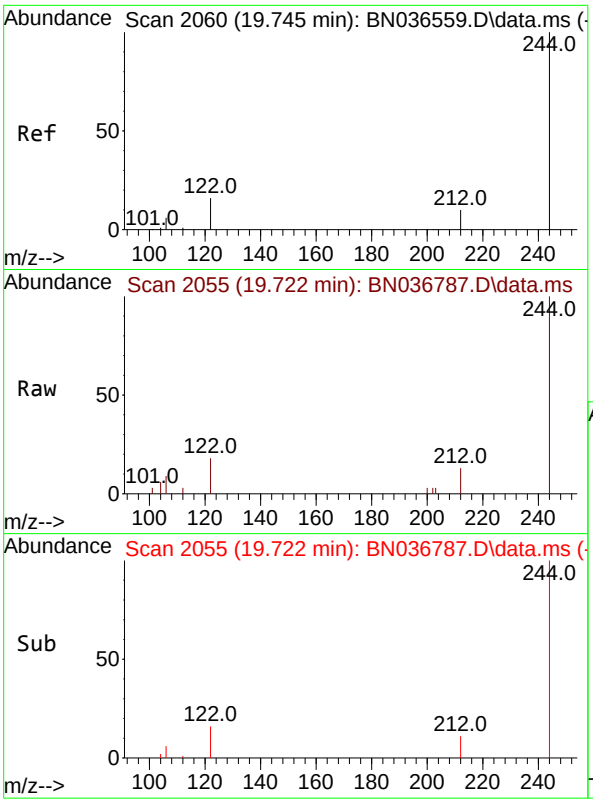


#30
Pyrene
Concen: 0.412 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:202 Resp: 7319

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

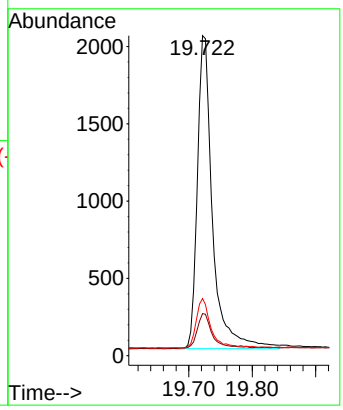




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:244 Resp: 335

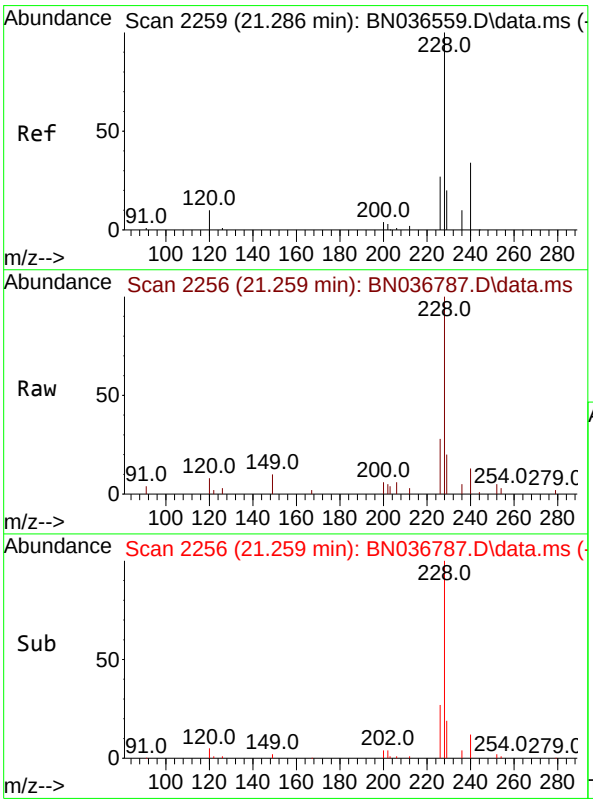
Ion	Ratio	Lower	Upper
244	100		
212	13.1	9.6	14.4
122	17.9	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

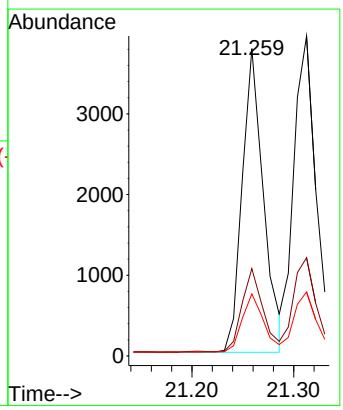
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

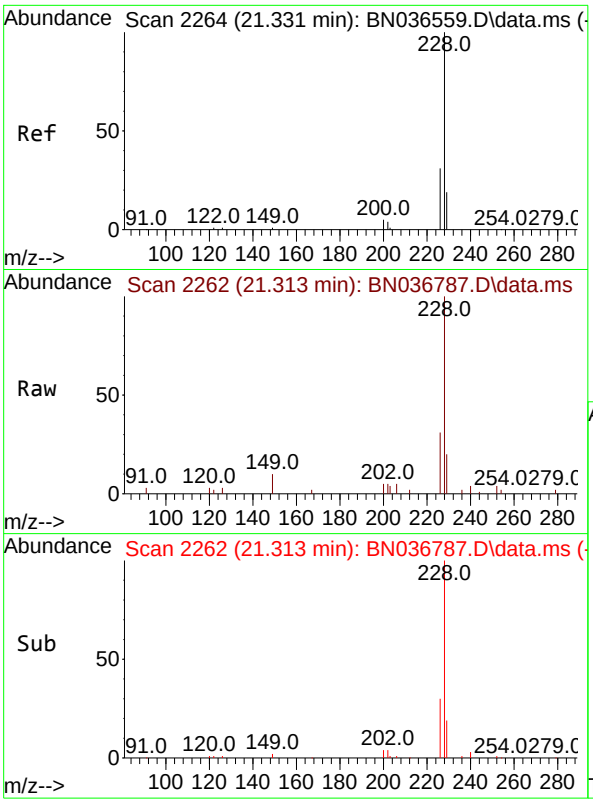


#32
Benzo(a)anthracene
Concen: 0.433 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:228 Resp: 5474

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.2	16.6	25.0

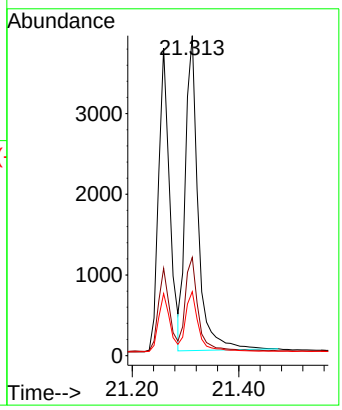




#33
Chrysene
Concen: 0.467 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:228 Resp: 645

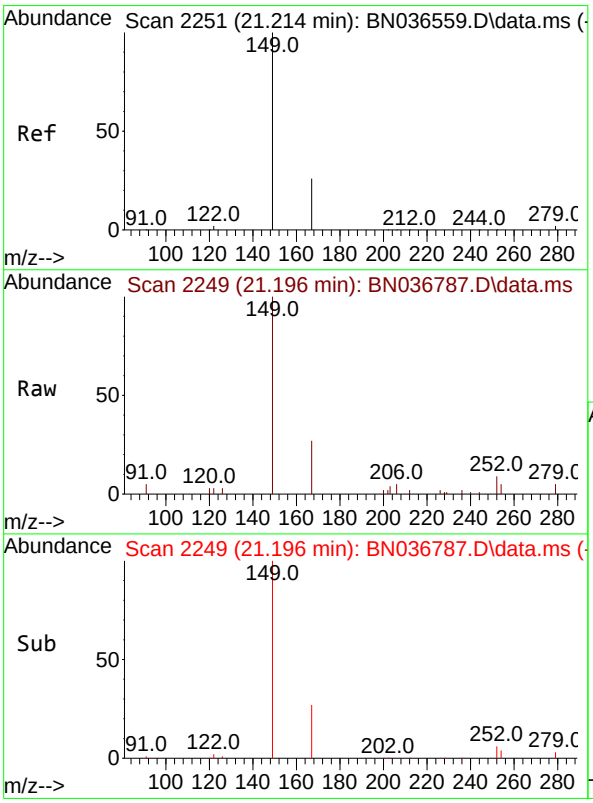
Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	20.0	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

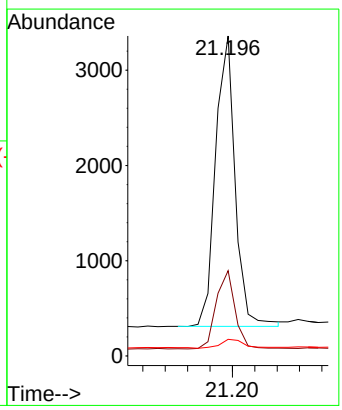
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

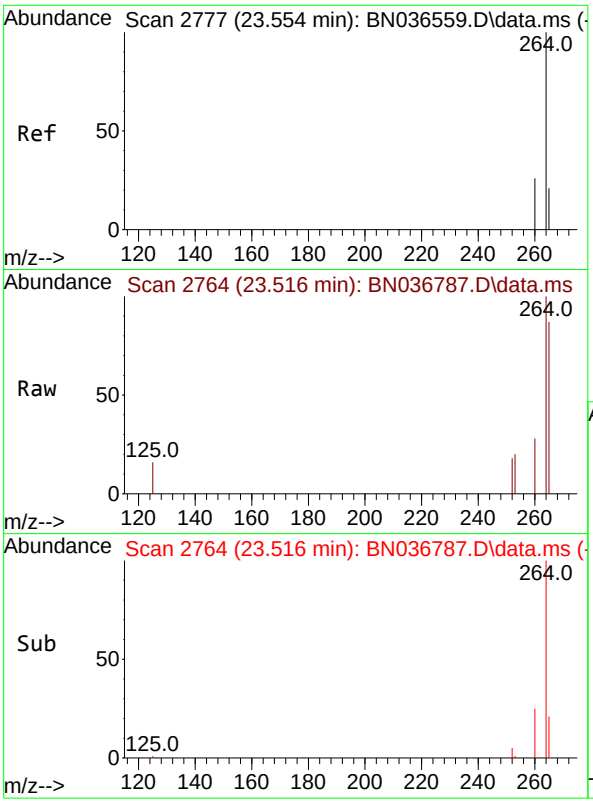


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.411 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:149 Resp: 3700

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.7	31.1
279	3.6	3.6	5.4

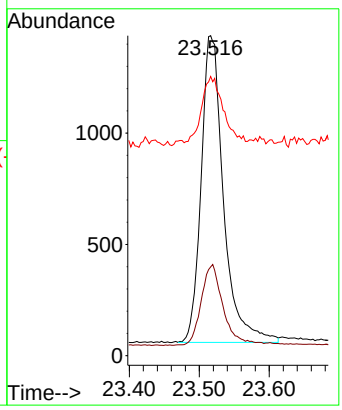




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:264 Resp: 306

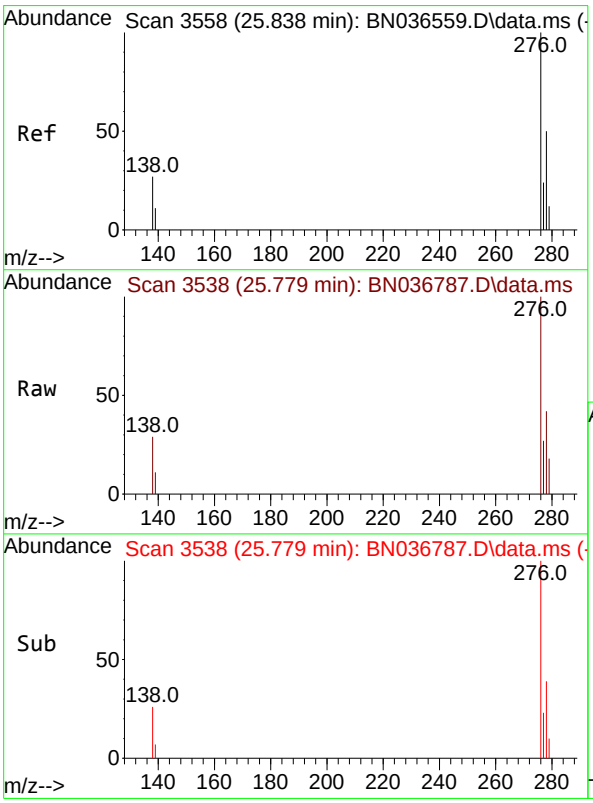
Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	87.3	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
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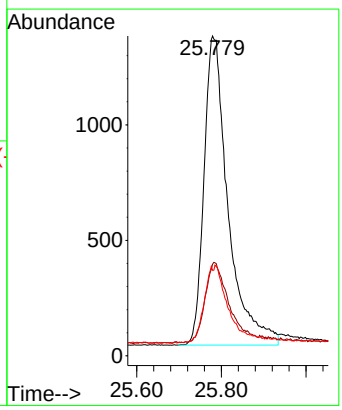
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

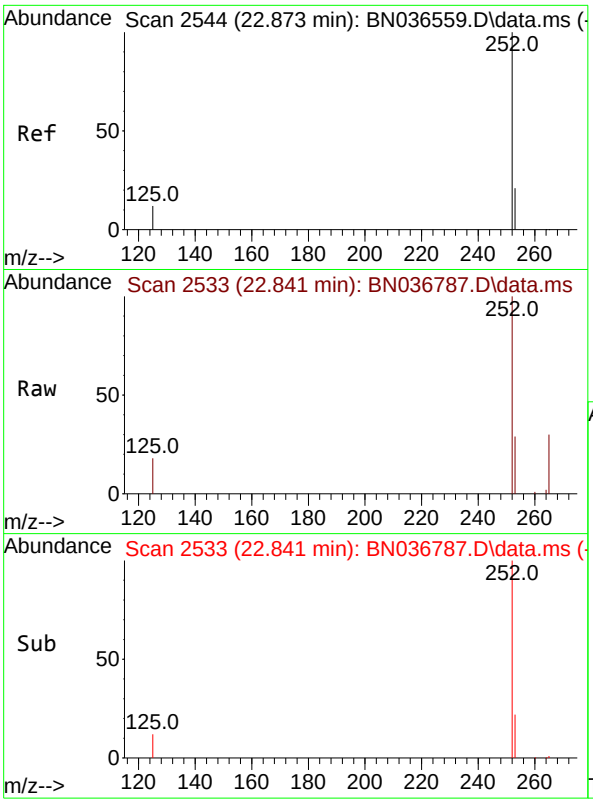


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.477 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.059 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:276 Resp: 5268

Ion	Ratio	Lower	Upper
276	100		
138	25.6	23.4	35.2
277	9.0	20.0	30.0#

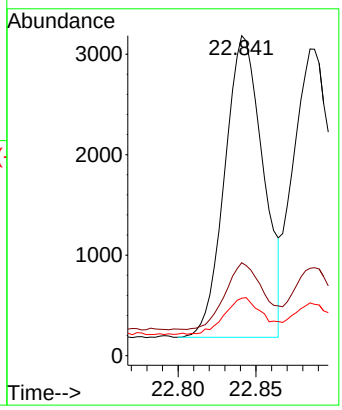




#37
Benzo(b)fluoranthene
Concen: 0.462 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:252 Resp: 514

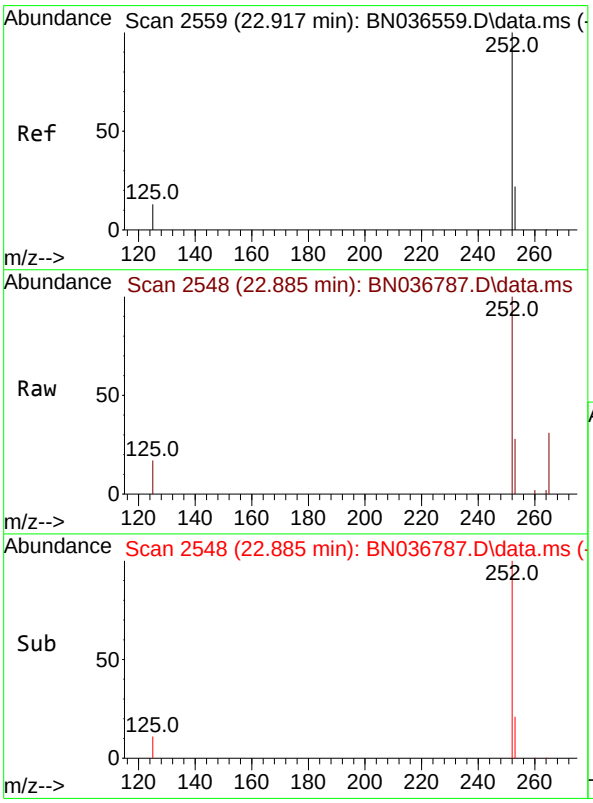
Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	17.9	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
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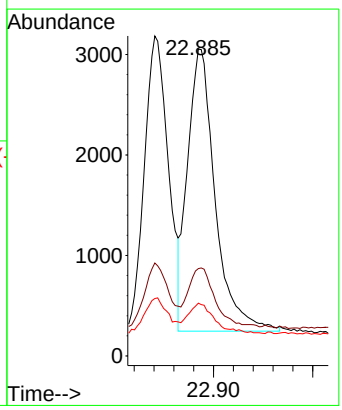
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

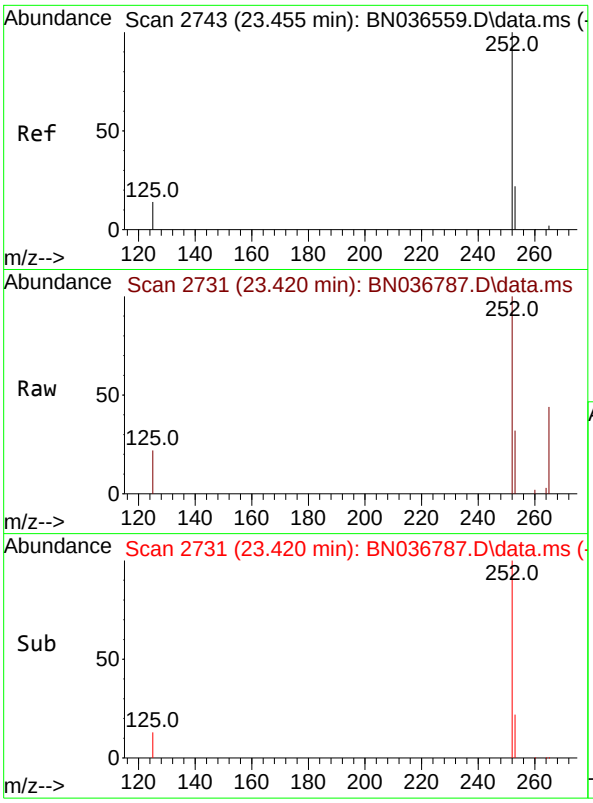


#38
Benzo(k)fluoranthene
Concen: 0.465 ng m
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:252 Resp: 5430

Ion	Ratio	Lower	Upper
252	100		
253	28.5	24.6	36.8
125	17.2	17.8	26.8#

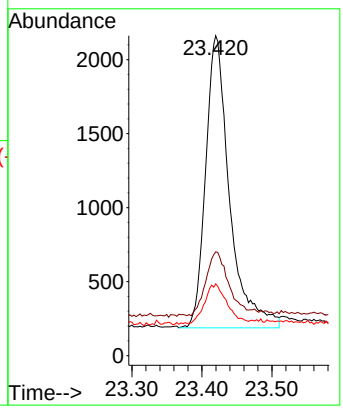




#39
Benzo(a)pyrene
Concen: 0.499 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:252 Resp: 467

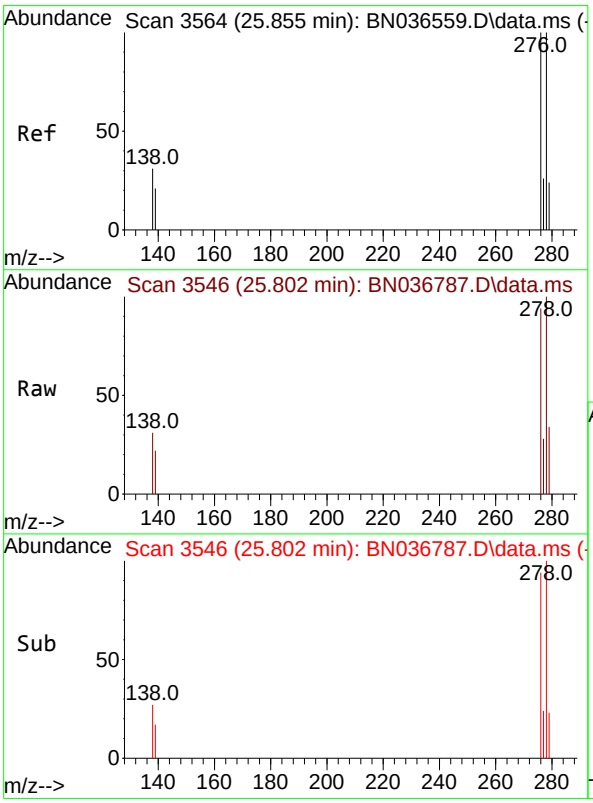
Ion	Ratio	Lower	Upper
252	100		
253	32.4	27.8	41.8
125	22.4	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
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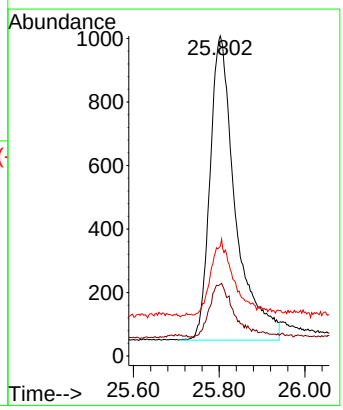
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

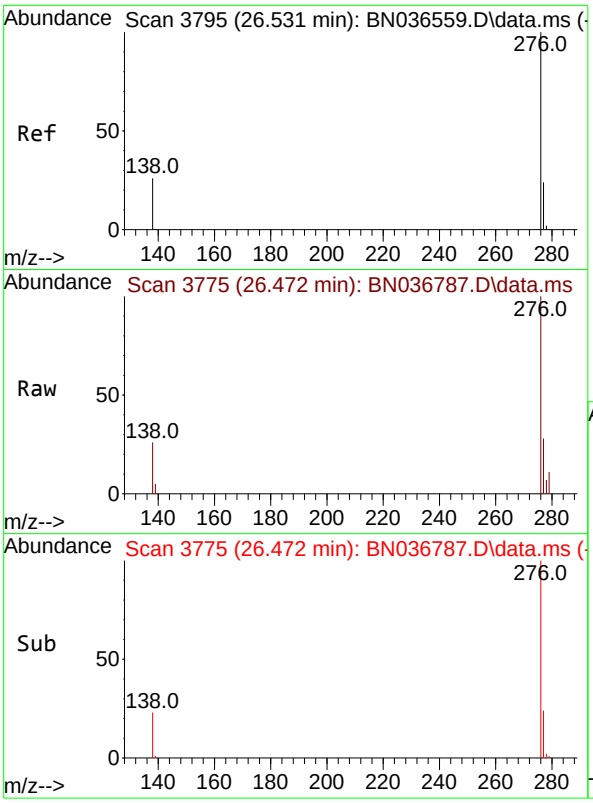


#40
Dibenzo(a,h)anthracene
Concen: 0.459 ng
RT: 25.802 min Scan# 3546
Delta R.T. -0.053 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:278 Resp: 3944

Ion	Ratio	Lower	Upper
278	100		
139	22.4	20.8	31.2
279	34.3	28.8	43.2

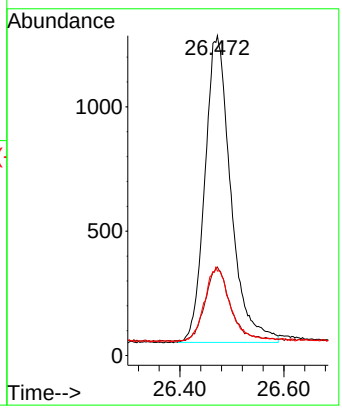




#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.059 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:276 Resp: 426

Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.2	33.4
138	26.4	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167251BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB167251BSD	SDG No.:	Q1608
Lab Sample ID:	PB167251BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036788.D	1	03/21/25 08:40	03/29/25 00:14	PB167251

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.34		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1500	7.696				
1146-65-2	Naphthalene-d8	3560	10.487				
15067-26-2	Acenaphthene-d10	2080	14.334				
1517-22-2	Phenanthrene-d10	4530	17.086				
1719-03-5	Chrysene-d12	3570	21.277				
1520-96-3	Perylene-d12	3210	23.513				

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\BN032825\
Data File : BN036788.D
Acq On : 29 Mar 2025 00:14
Operator : RC/JU
Sample : PB167251BSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 31 10:42:26 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 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1495	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3562	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2075	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4531	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3571	0.400	ng	#-0.02
35) Perylene-d12	23.513	264	3214	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1520	0.436	ng	-0.02
5) Phenol-d6	6.872	99	1696	0.394	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1467	0.379	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2286m	0.431	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	384	0.408	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4747	0.393	ng	-0.03
27) Fluoranthene-d10	19.118	212	4737	0.408	ng	-0.02
31) Terphenyl-d14	19.722	244	3374	0.394	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	559	0.337	ng	# 27
3) n-Nitrosodimethylamine	3.528	42	1482	0.442	ng	# 94
6) bis(2-Chloroethyl)ether	7.125	93	1720	0.387	ng	97
9) Naphthalene	10.530	128	4258	0.406	ng	99
10) Hexachlorobutadiene	10.818	225	1013	0.411	ng	# 99
12) 2-Methylnaphthalene	12.151	142	2756	0.413	ng	98
16) Acenaphthylene	14.056	152	4353	0.445	ng	99
17) Acenaphthene	14.398	154	2772	0.432	ng	99
18) Fluorene	15.393	166	3813	0.440	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	384	0.477	ng	# 83
21) 4-Bromophenyl-phenylether	16.280	248	1199	0.422	ng	96
22) Hexachlorobenzene	16.391	284	1423	0.415	ng	95
23) Atrazine	16.553	200	1058	0.465	ng	96
24) Pentachlorophenol	16.739	266	908	0.581	ng	96
25) Phenanthrene	17.124	178	6081	0.447	ng	100
26) Anthracene	17.223	178	5621	0.458	ng	99
28) Fluoranthene	19.150	202	7104	0.465	ng	98
30) Pyrene	19.513	202	7362	0.422	ng	100
32) Benzo(a)anthracene	21.259	228	5399	0.435	ng	99
33) Chrysene	21.313	228	6396	0.471	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3569	0.404	ng	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5542	0.478	ng	96
37) Benzo(b)fluoranthene	22.841	252	5372	0.459	ng	94
38) Benzo(k)fluoranthene	22.885	252	5891	0.480	ng	# 92
39) Benzo(a)pyrene	23.417	252	4725	0.480	ng	# 91
40) Dibenzo(a,h)anthracene	25.800	278	4192	0.464	ng	93
41) Benzo(g,h,i)perylene	26.469	276	4510	0.437	ng	95

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

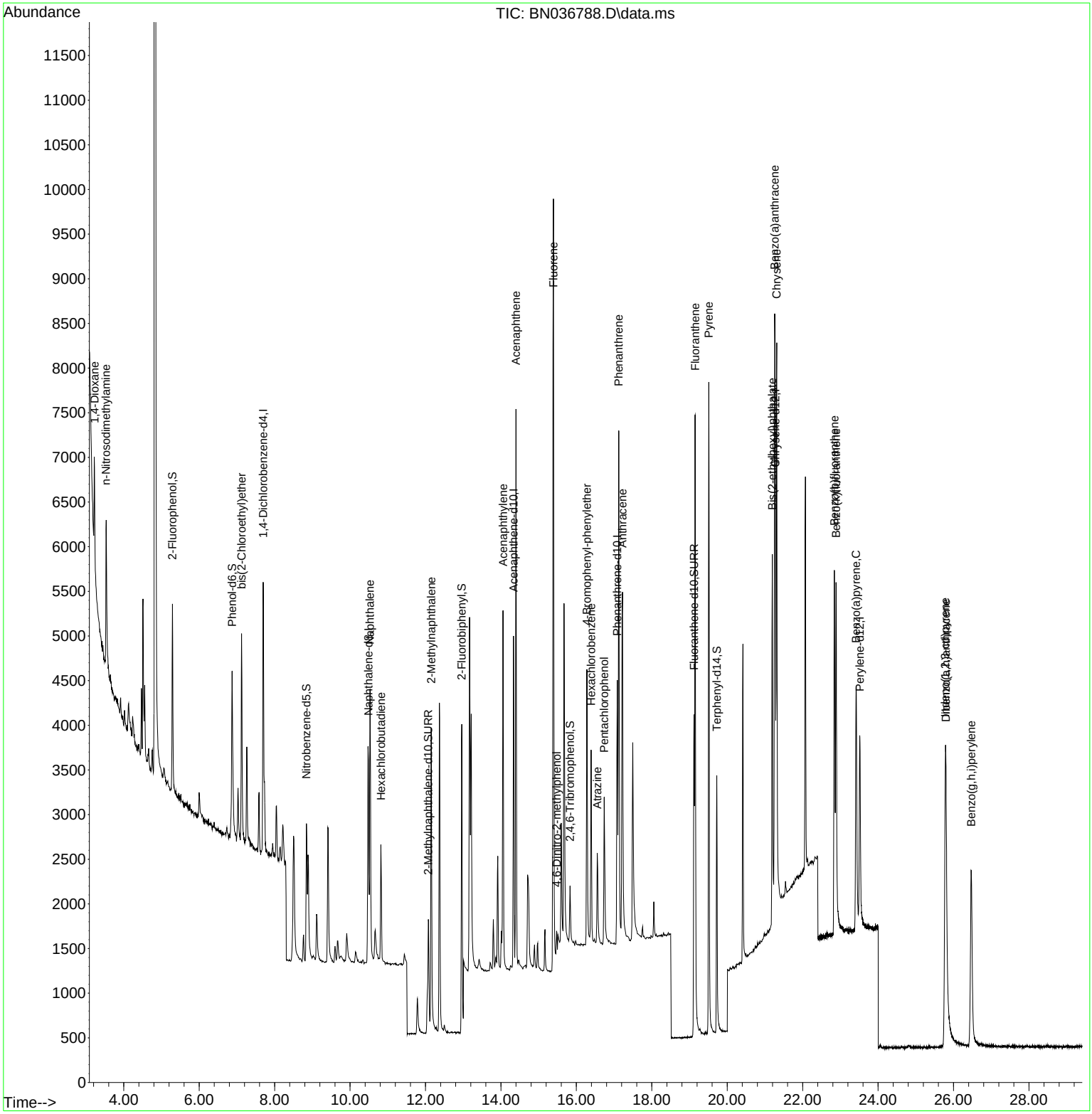
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Data File : BN036788.D
Acq On : 29 Mar 2025 00:14
Operator : RC/JU
Sample : PB167251BSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

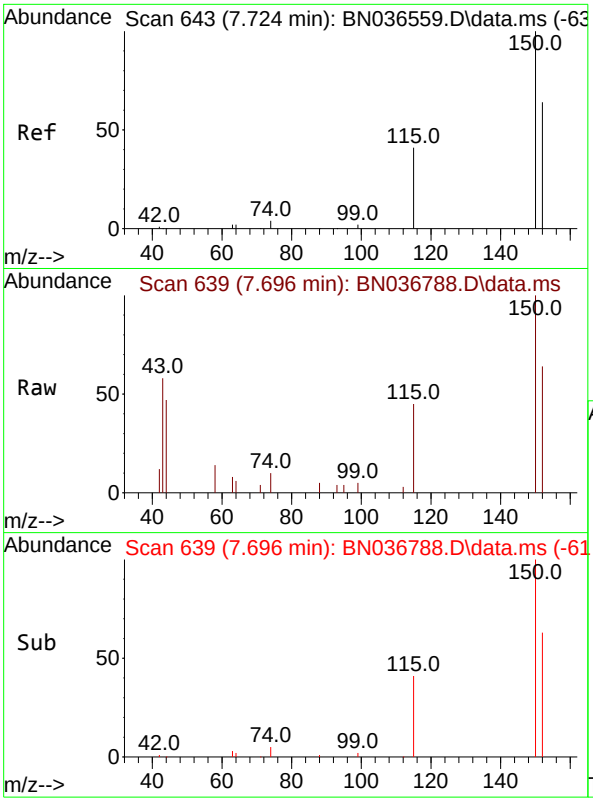
Quant Time: Mar 31 10:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations APPROVED

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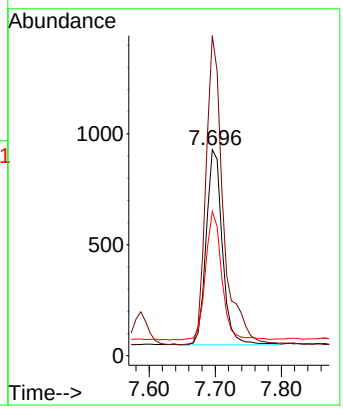




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:152 Resp: 149

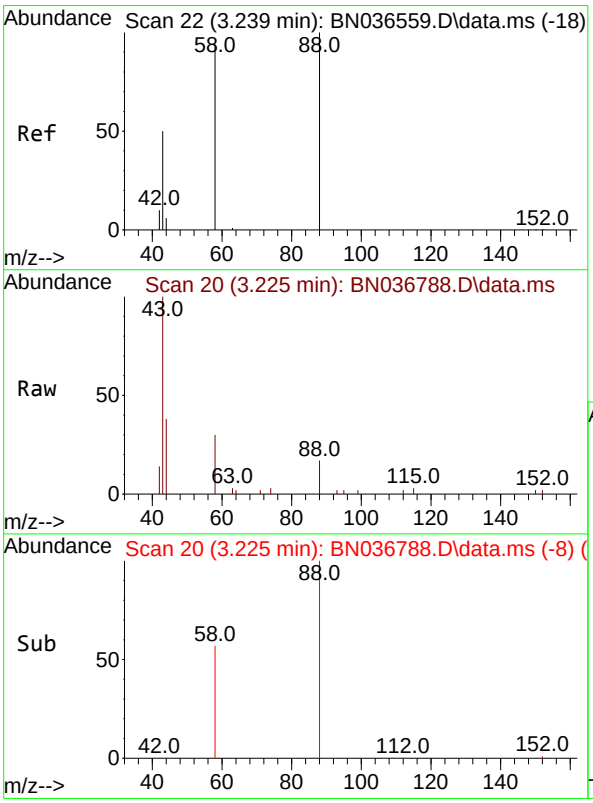
Ion	Ratio	Lower	Upper
152	100		
150	155.3	123.7	185.5
115	70.0	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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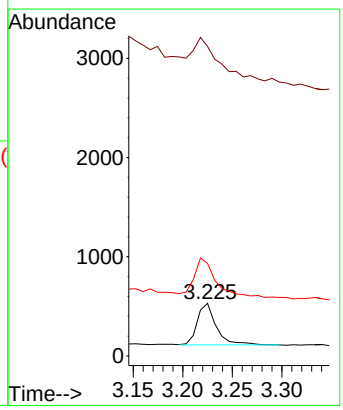
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

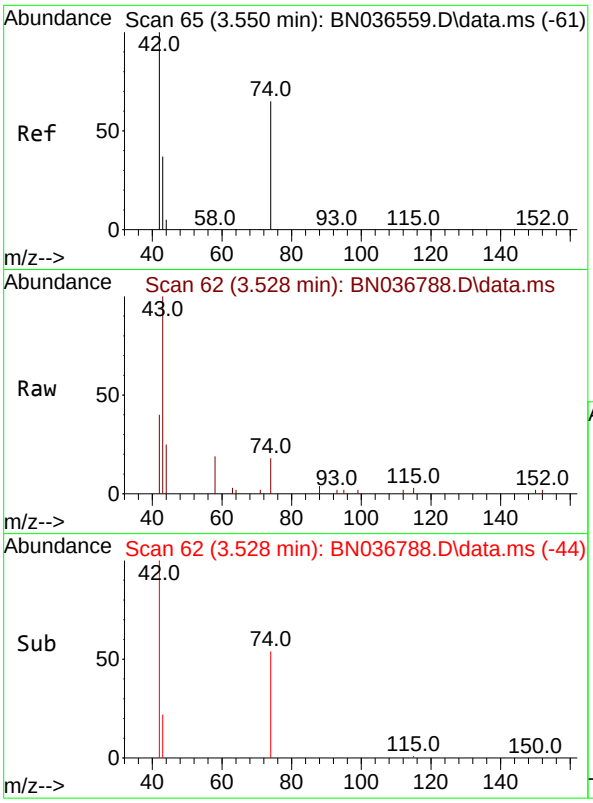


#2
1,4-Dioxane
Concen: 0.337 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion: 88 Resp: 559

Ion	Ratio	Lower	Upper
88	100		
43	151.0	37.8	56.8#
58	108.4	67.4	101.2#

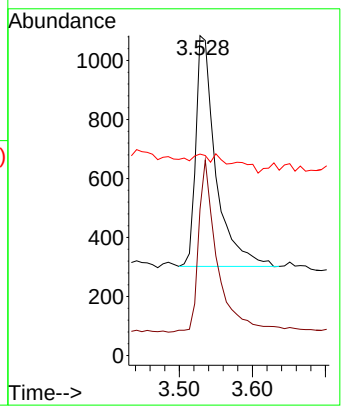




#3
n-Nitrosodimethylamine
Concen: 0.442 ng
RT: 3.528 min Scan# 6
Delta R.T. -0.022 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion: 42 Resp: 148

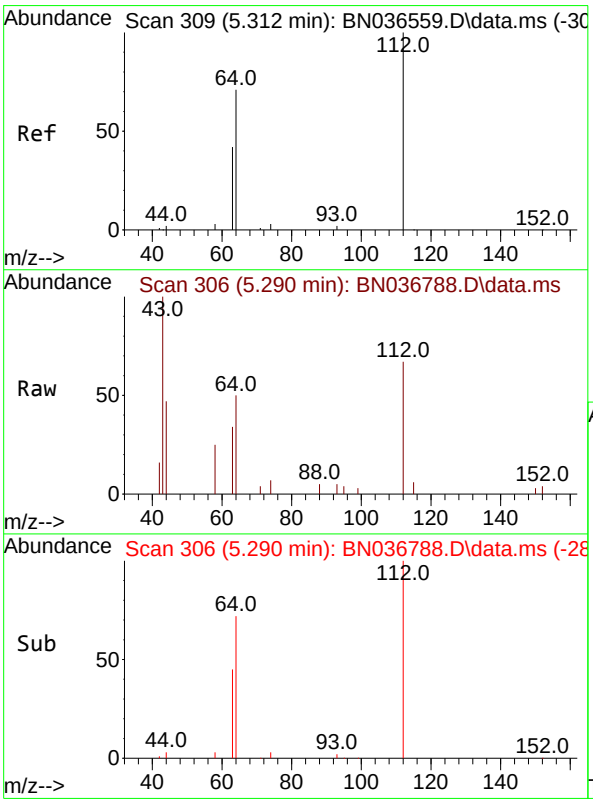
Ion	Ratio	Lower	Upper
42	100		
74	71.7	60.6	90.8
44	2.1	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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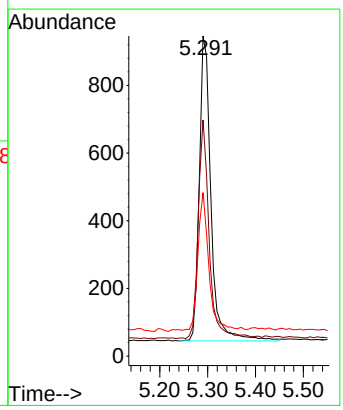
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

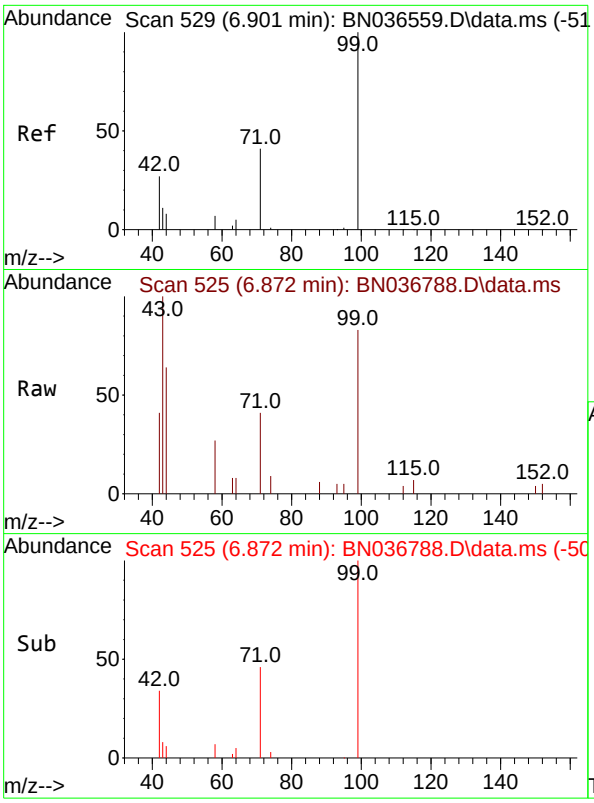


#4
2-Fluorophenol
Concen: 0.436 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:112 Resp: 1520

Ion	Ratio	Lower	Upper
112	100		
64	67.5	53.1	79.7
63	42.1	31.8	47.8





#5
Phenol-d6
Concen: 0.394 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

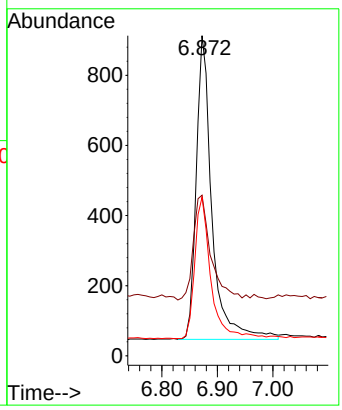
Tgt Ion: 99 Resp: 169

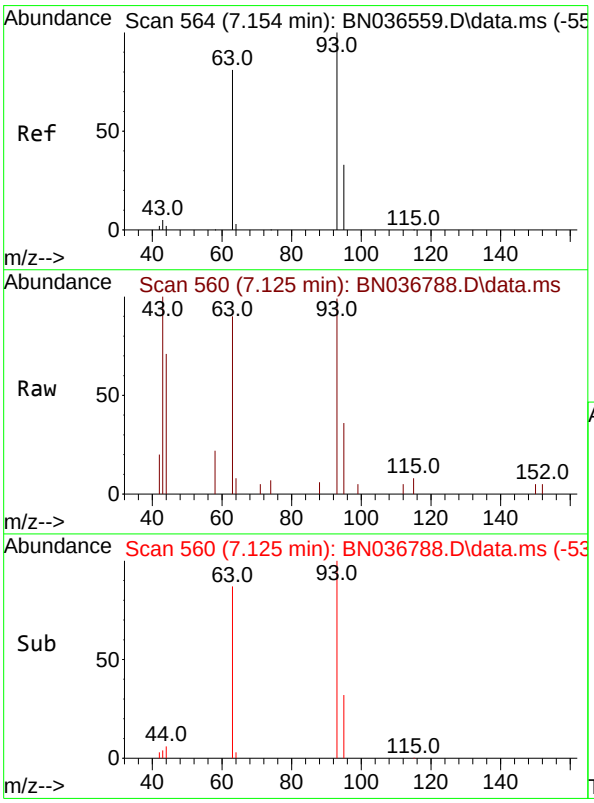
Ion	Ratio	Lower	Upper
99	100		
42	38.4	26.5	39.7
71	47.6	34.1	51.1

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

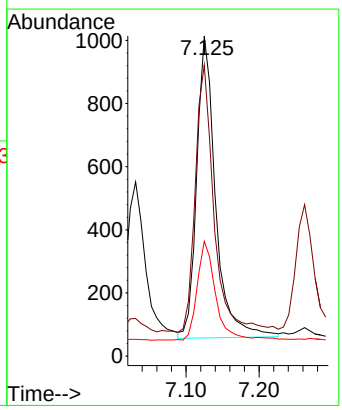


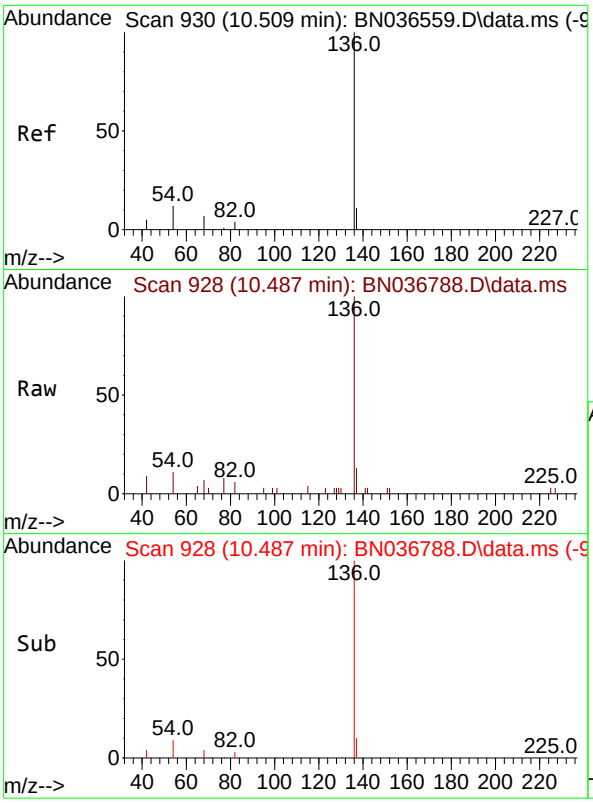


#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion: 93 Resp: 1720

Ion	Ratio	Lower	Upper
93	100		
63	88.1	67.7	101.5
95	31.0	25.6	38.4

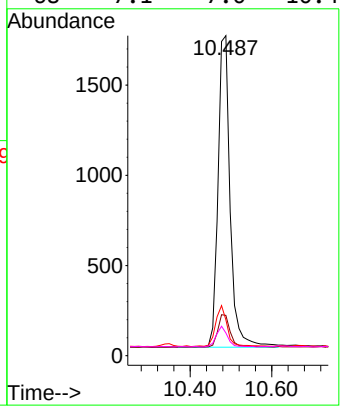




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:136 Resp: 356

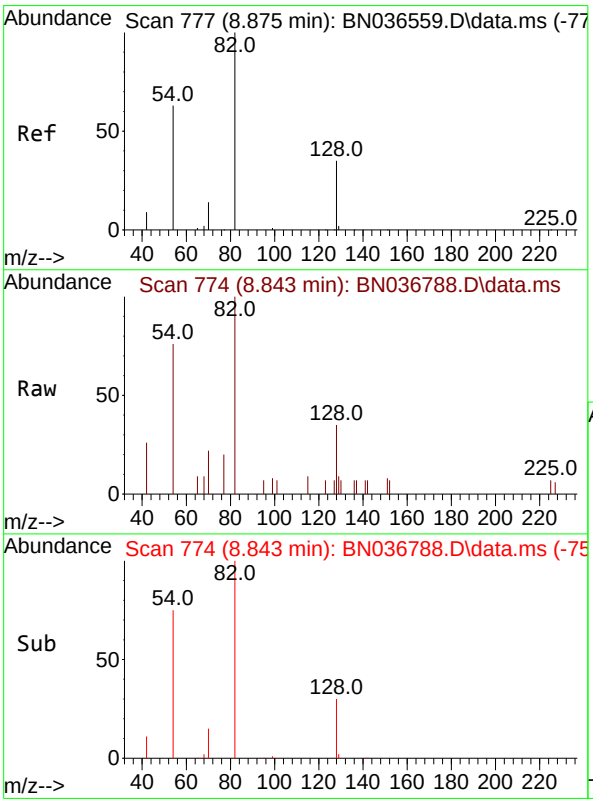
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	11.2	11.5	17.3#
68	7.1	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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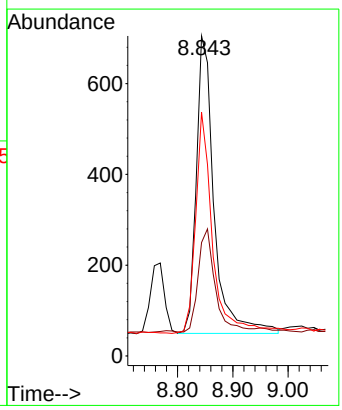
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

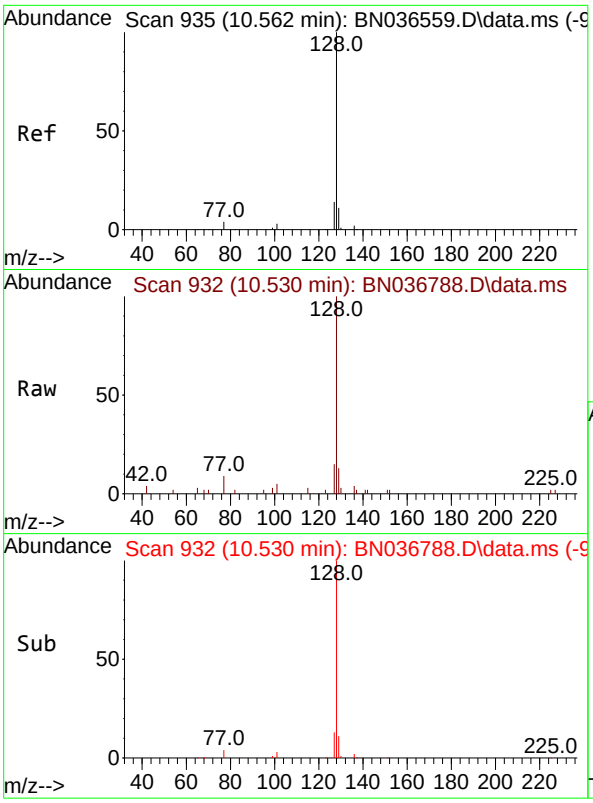


#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion: 82 Resp: 1467

Ion	Ratio	Lower	Upper
82	100		
128	35.5	30.6	45.8
54	76.2	52.2	78.4

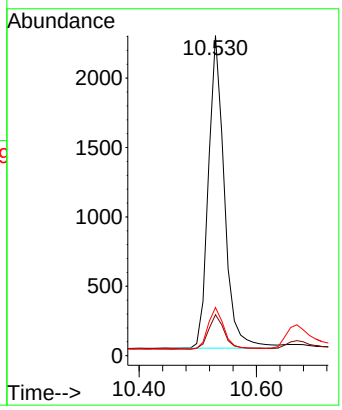




#9
Naphthalene
Concen: 0.406 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:128 Resp: 425

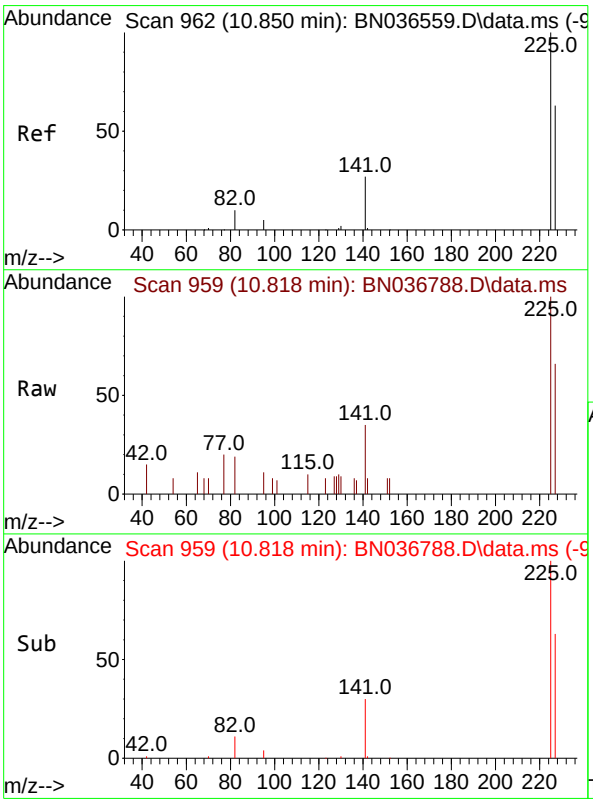
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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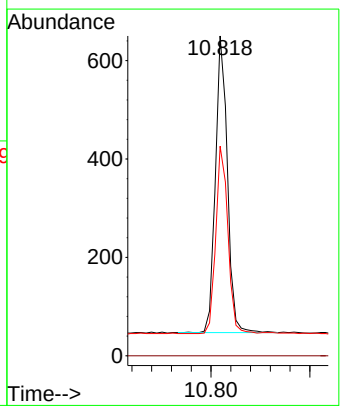
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

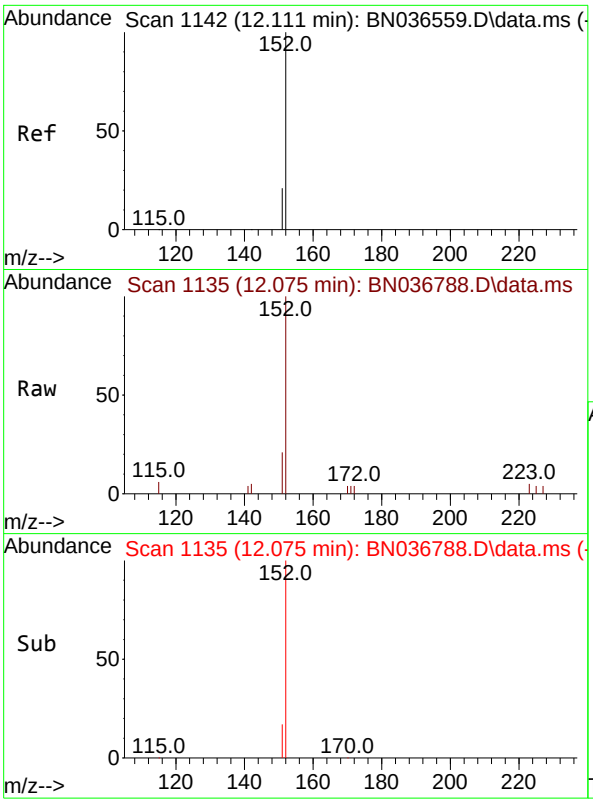


#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:225 Resp: 1013

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.8	77.8

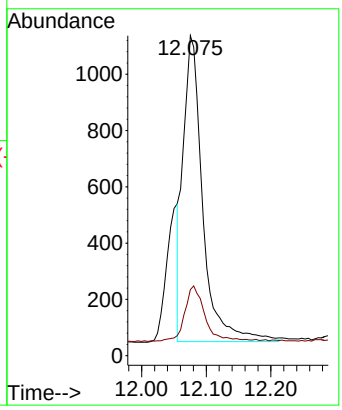




#11
2-Methylnaphthalene-d10
Concen: 0.431 ng m
RT: 12.075 min Scan# 1
Delta R.T. -0.035 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:152 Resp: 228

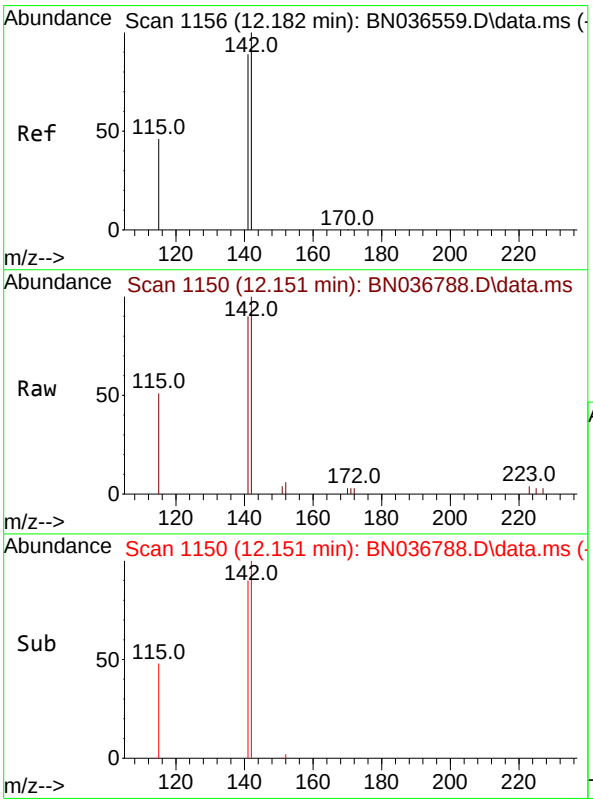
Ion	Ratio	Lower	Upper
152	100		
151	18.9	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

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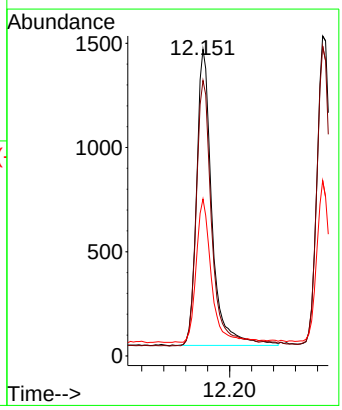
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

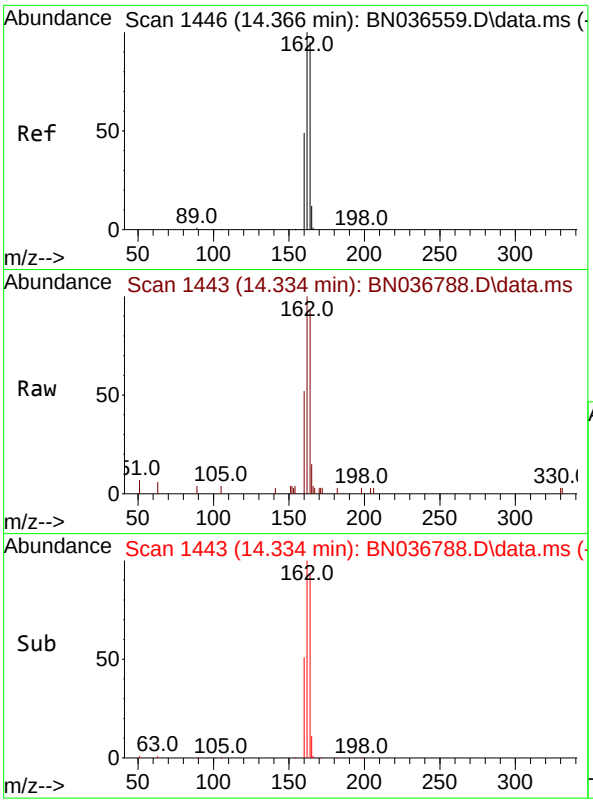


#12
2-Methylnaphthalene
Concen: 0.413 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:142 Resp: 2756

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.7	107.5
115	51.2	38.3	57.5

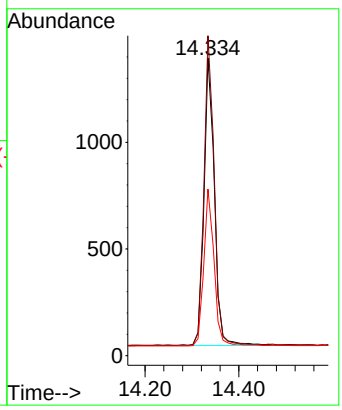




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:164 Resp: 207

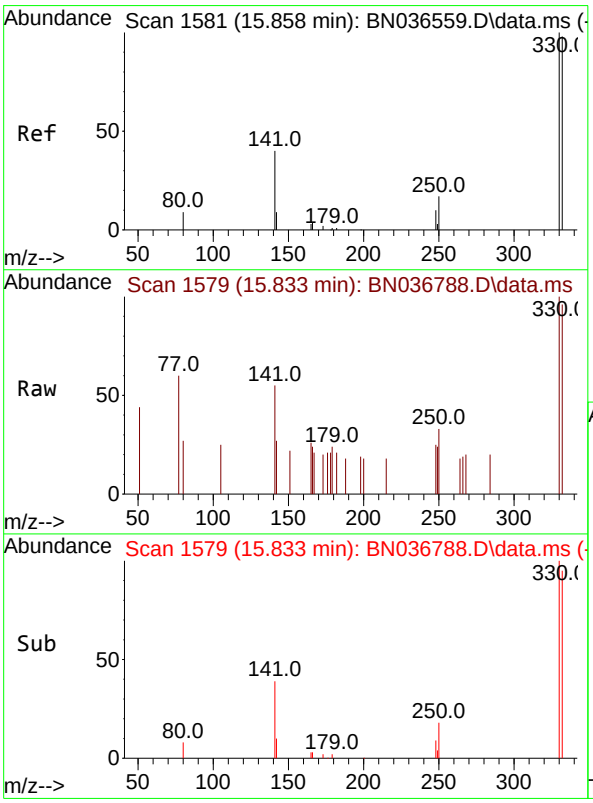
Ion	Ratio	Lower	Upper
164	100		
162	107.4	84.2	126.2
160	55.9	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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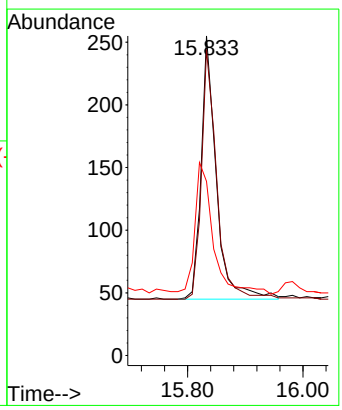
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

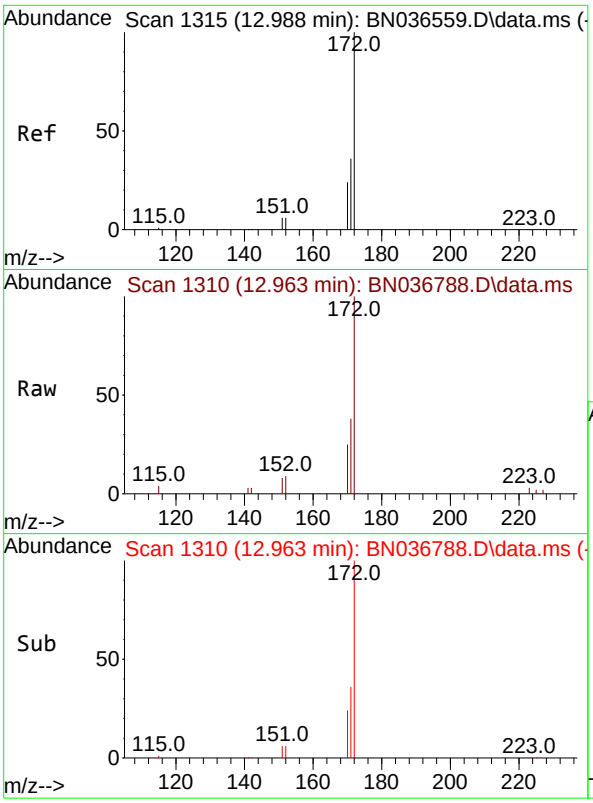


#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:330 Resp: 384

Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.2	112.8
141	59.9	43.4	65.2

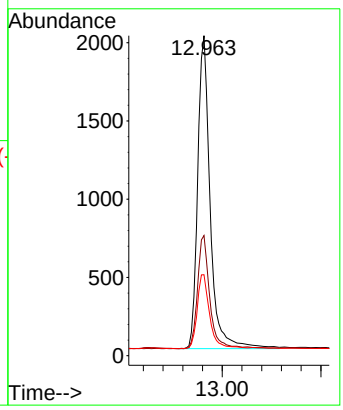




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:172 Resp: 474

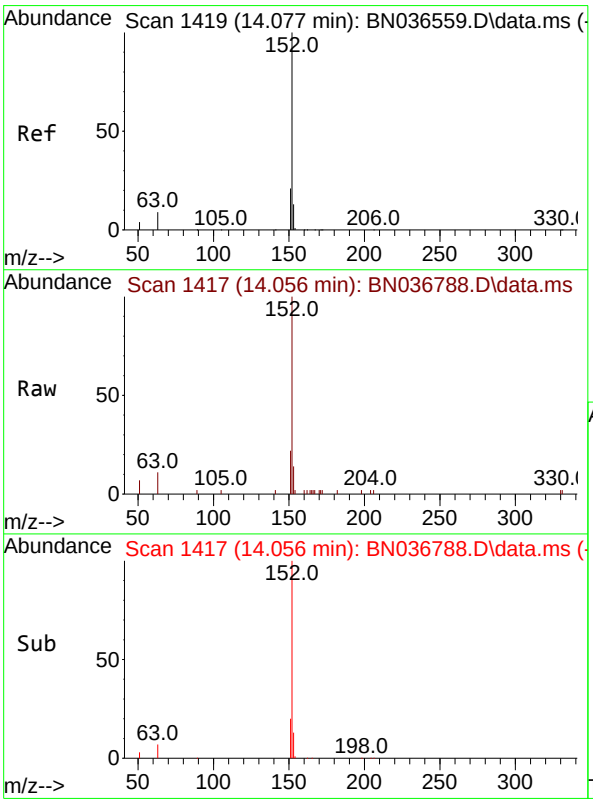
Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.5	44.3
170	25.3	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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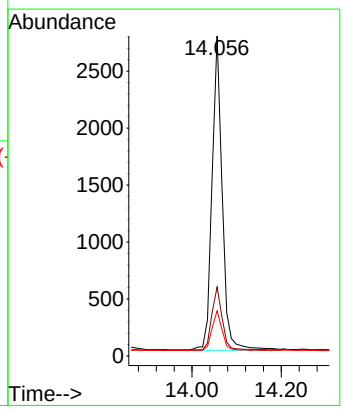
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

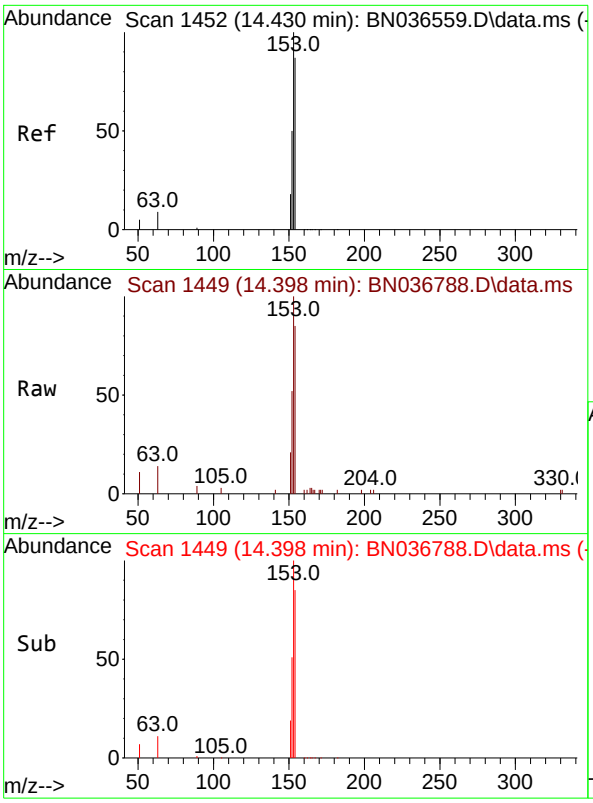


#16
Acenaphthylene
Concen: 0.445 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:152 Resp: 4353

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	12.8	10.6	15.8

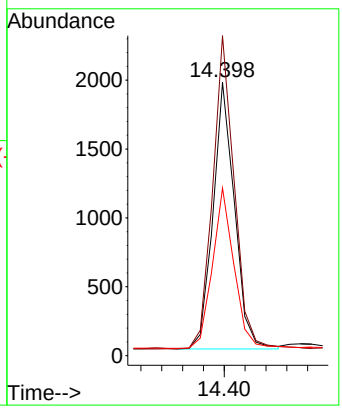




#17
Acenaphthene
Concen: 0.432 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:154 Resp: 277

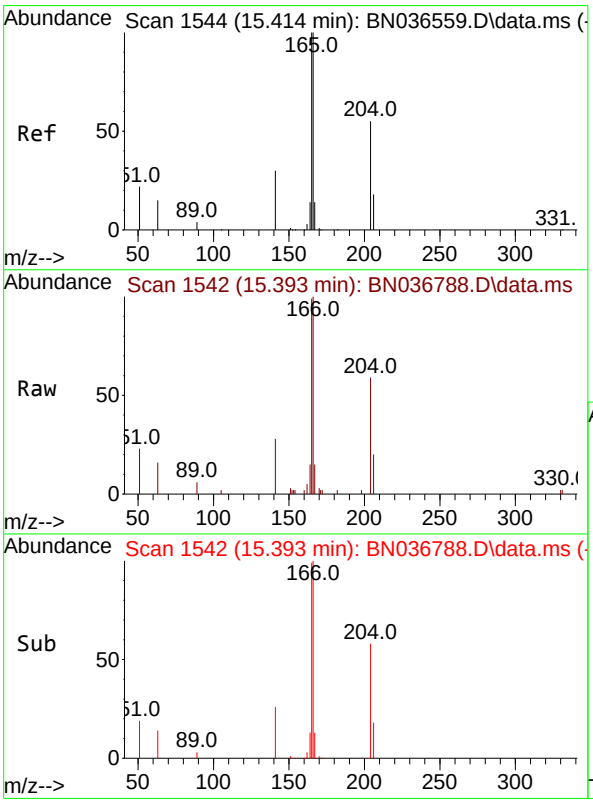
Ion	Ratio	Lower	Upper
154	100		
153	118.5	94.1	141.1
152	61.0	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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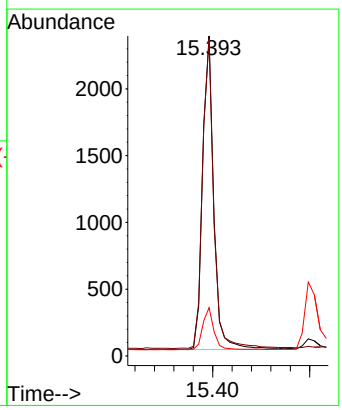
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

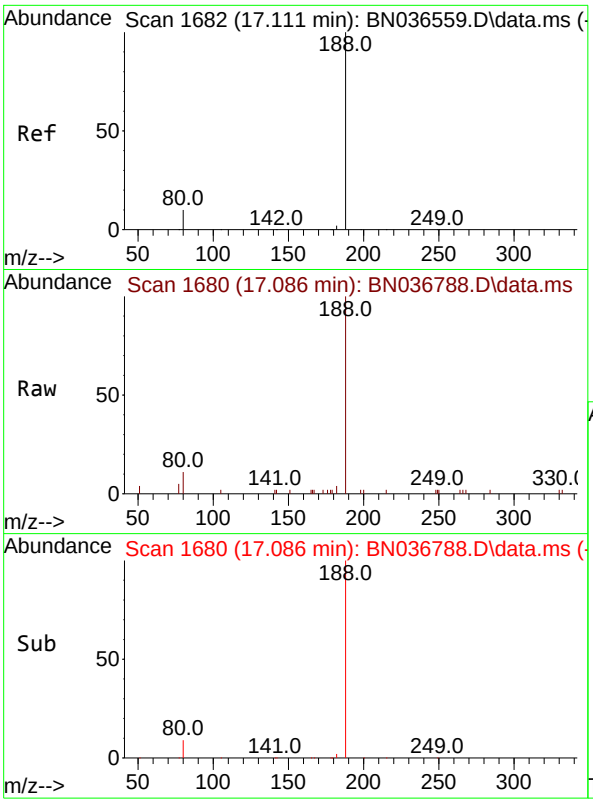


#18
Fluorene
Concen: 0.440 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:166 Resp: 3813

Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.8	119.8
167	13.1	10.6	15.8

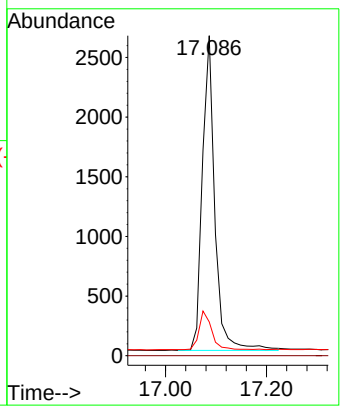




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:188 Resp: 453

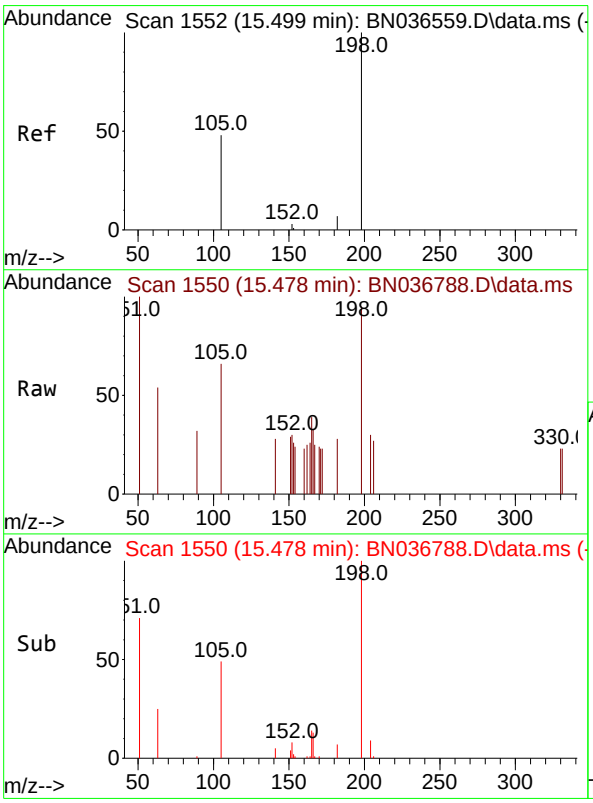
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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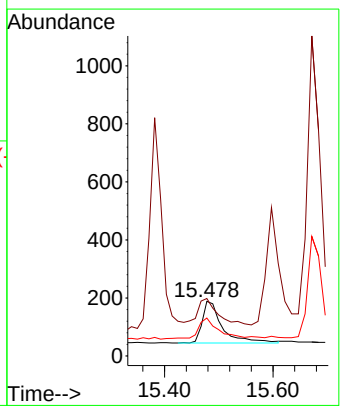
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

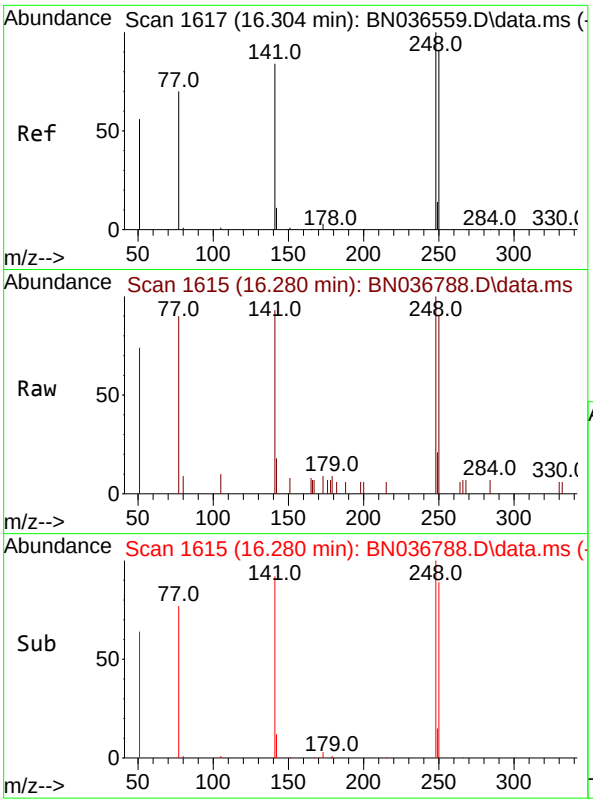


#20
4,6-Dinitro-2-methylphenol
Concen: 0.477 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:198 Resp: 384

Ion	Ratio	Lower	Upper
198	100		
51	105.3	107.9	161.9#
105	69.7	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.422 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

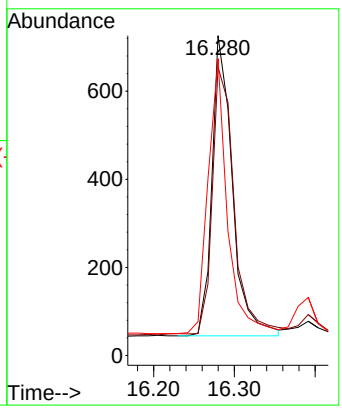
Tgt Ion:248 Resp: 119

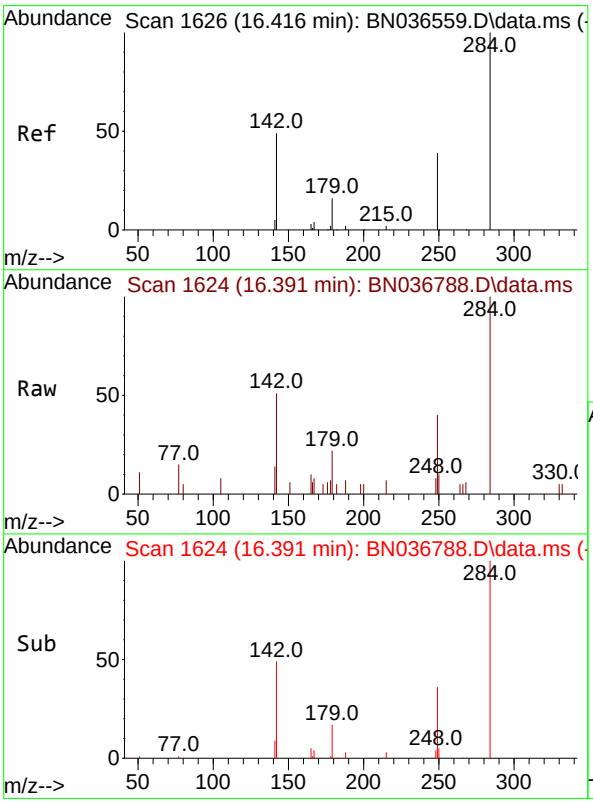
Ion	Ratio	Lower	Upper
248	100		
250	90.2	73.0	109.6
141	92.8	68.6	103.0

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

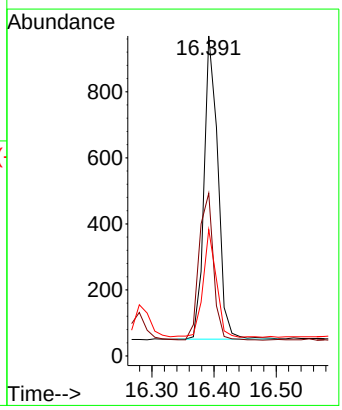


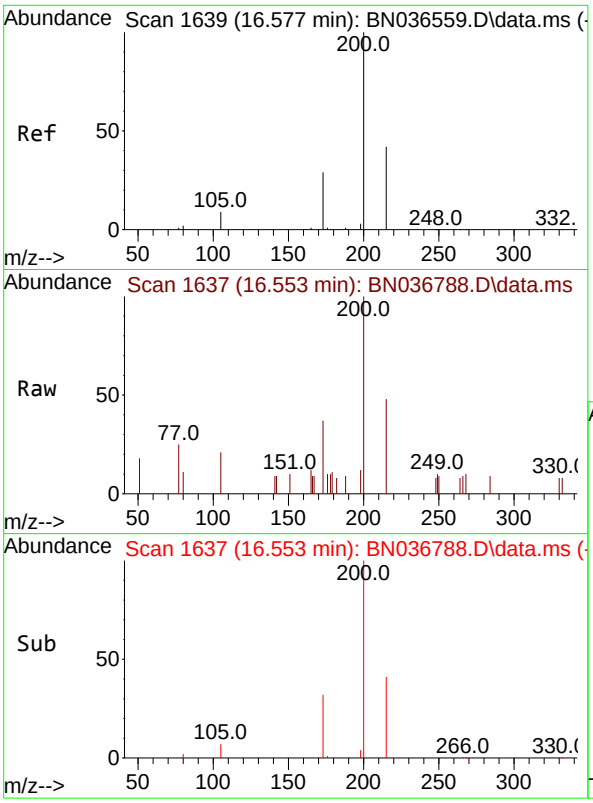


#22
Hexachlorobenzene
Concen: 0.415 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:284 Resp: 1423

Ion	Ratio	Lower	Upper
284	100		
142	51.0	37.0	55.4
249	33.8	28.1	42.1

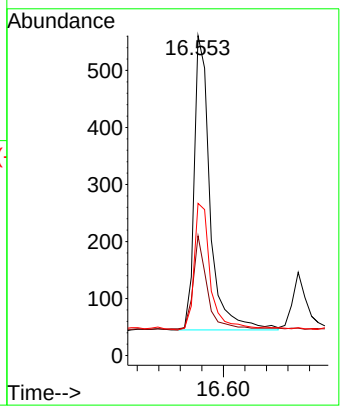




#23
Atrazine
Concen: 0.465 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:200 Resp: 105

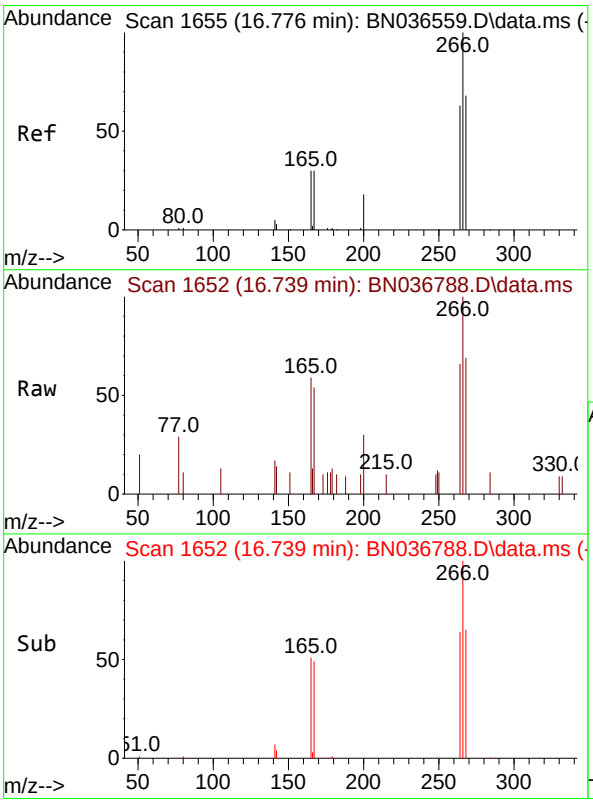
Ion	Ratio	Lower	Upper
200	100		
173	37.4	27.3	40.9
215	47.6	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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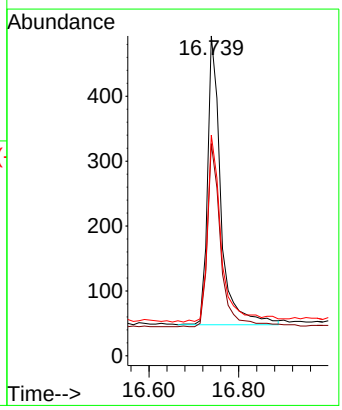
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

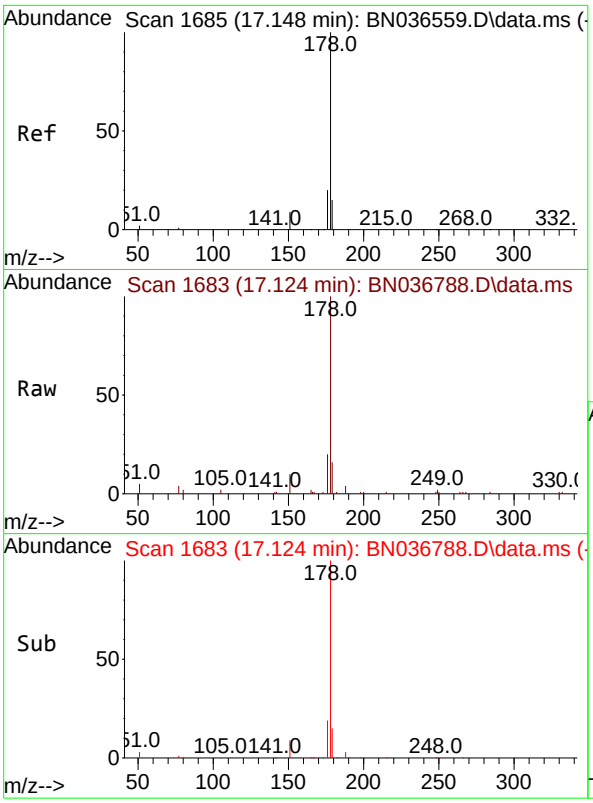


#24
Pentachlorophenol
Concen: 0.581 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:266 Resp: 908

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.6	74.4
268	68.3	50.9	76.3

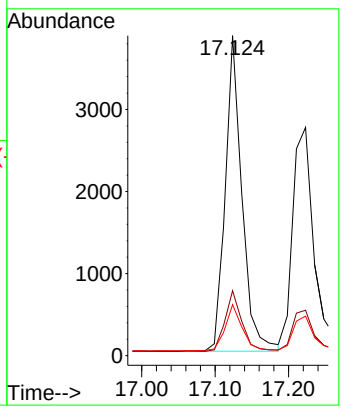




#25
Phenanthrene
Concen: 0.447 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:178 Resp: 608

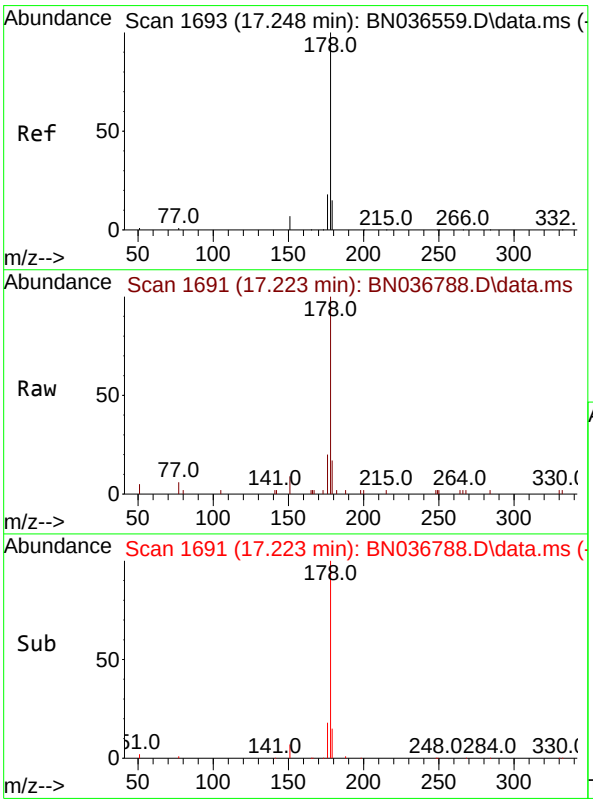
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.2	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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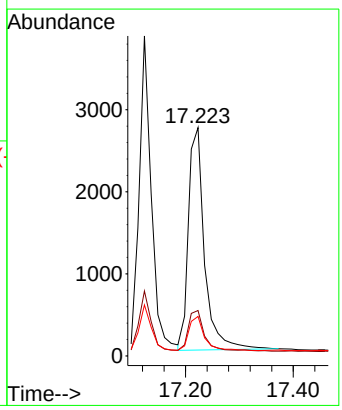
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

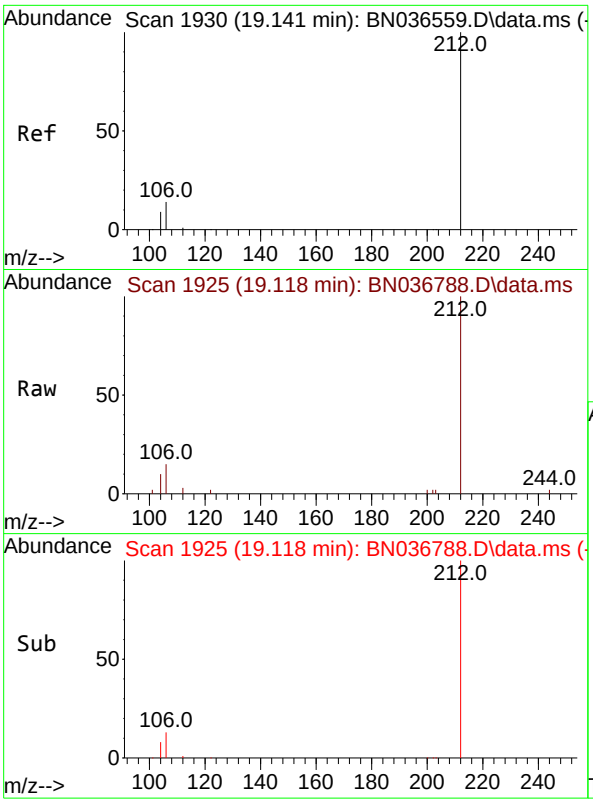


#26
Anthracene
Concen: 0.458 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:178 Resp: 5621

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

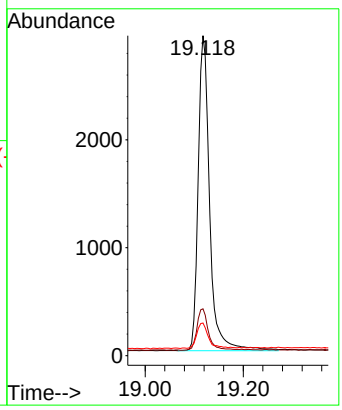




#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:212 Resp: 473

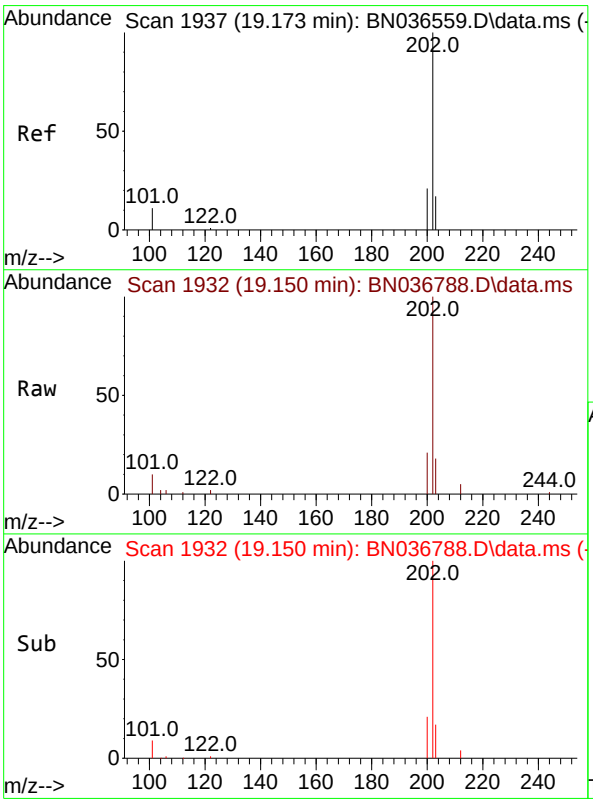
Ion	Ratio	Lower	Upper
212	100		
106	13.0	11.8	17.6
104	8.4	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
APPROVED

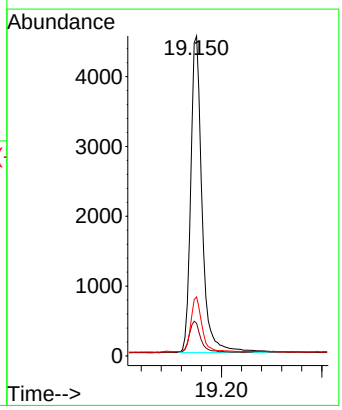
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

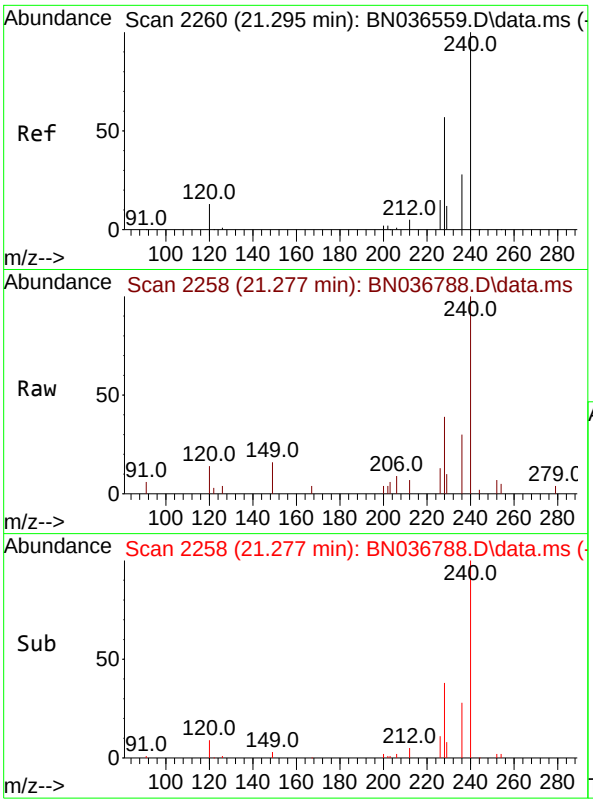


#28
Fluoranthene
Concen: 0.465 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:202 Resp: 7104

Ion	Ratio	Lower	Upper
202	100		
101	10.0	9.4	14.0
203	16.7	13.5	20.3

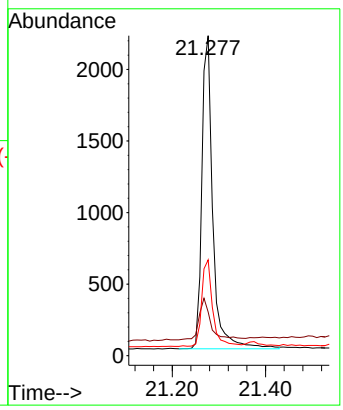




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:240 Resp: 357

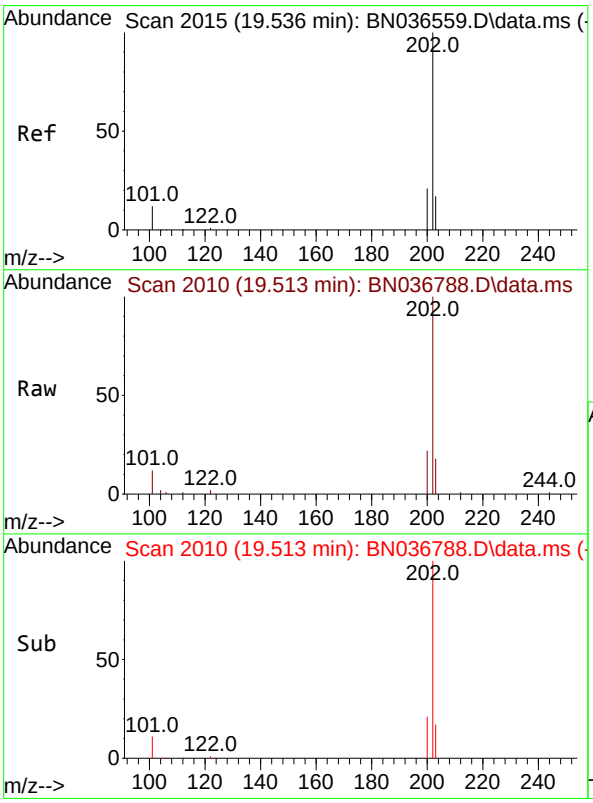
Ion	Ratio	Lower	Upper
240	100		
120	13.6	14.6	22.0
236	30.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
APPROVED

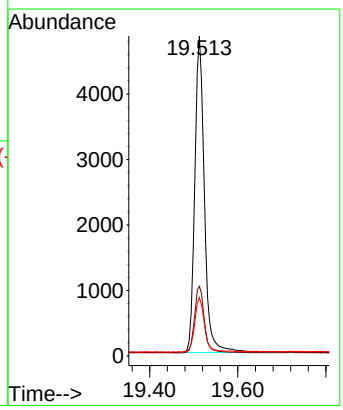
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

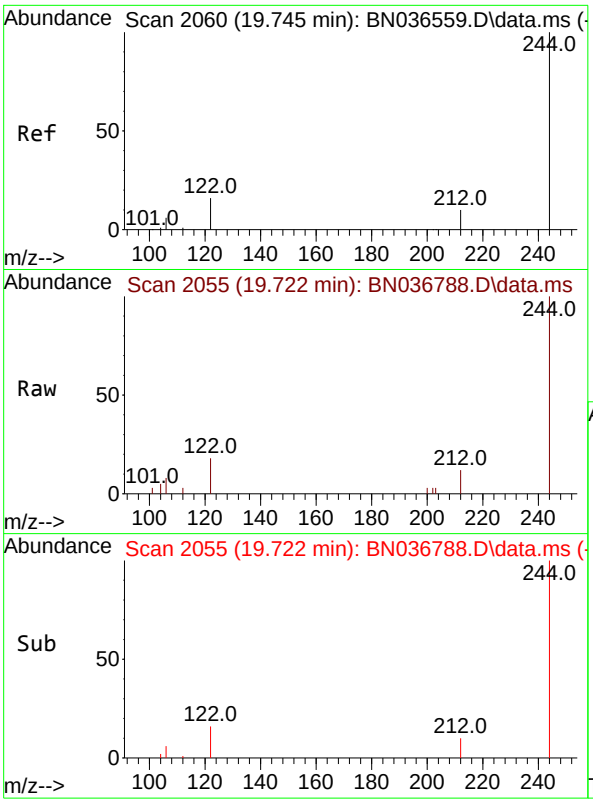


#30
Pyrene
Concen: 0.422 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:202 Resp: 7362

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

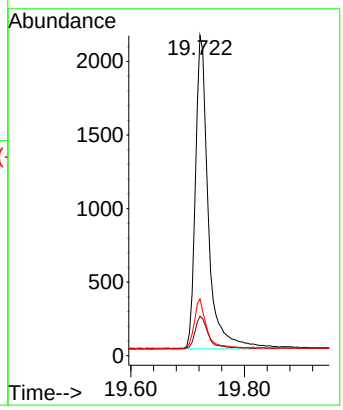




#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:244 Resp: 337

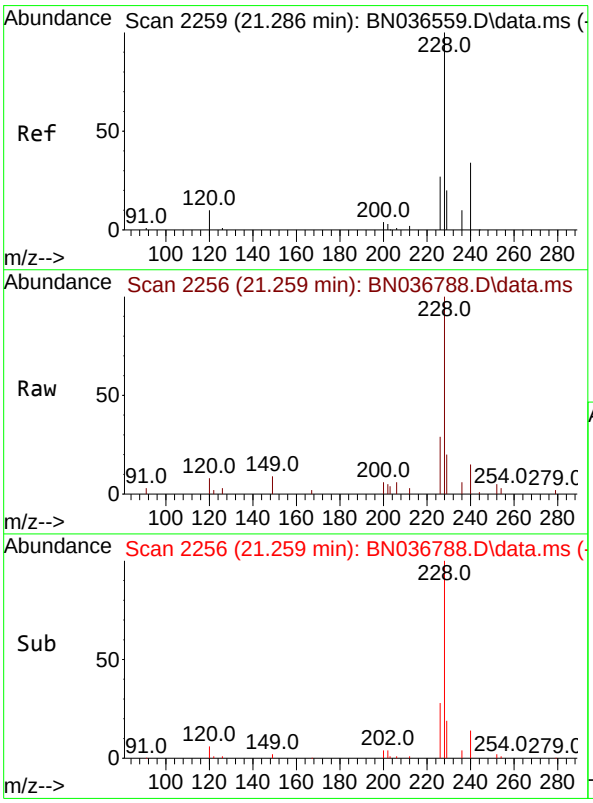
Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.6	14.4
122	17.7	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
APPROVED

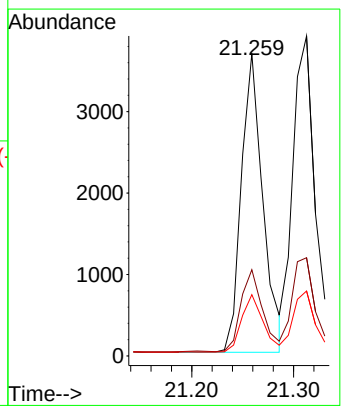
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

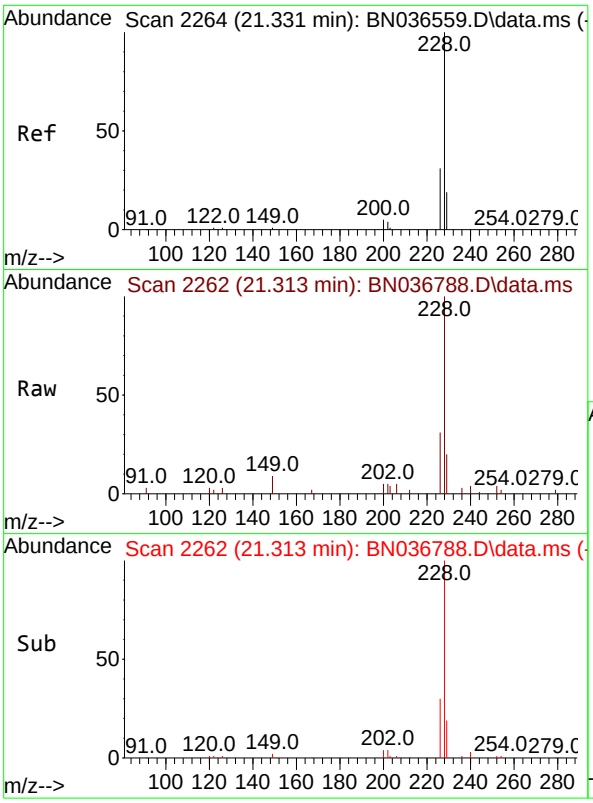


#32
Benzo(a)anthracene
Concen: 0.435 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:228 Resp: 5399

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.2	16.6	25.0

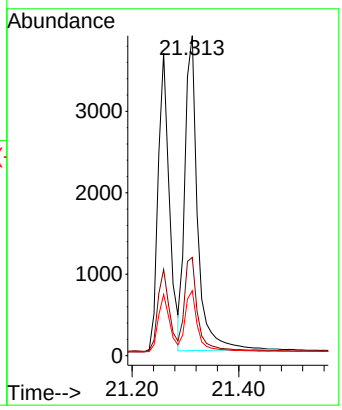




#33
Chrysene
Concen: 0.471 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:228 Resp: 639

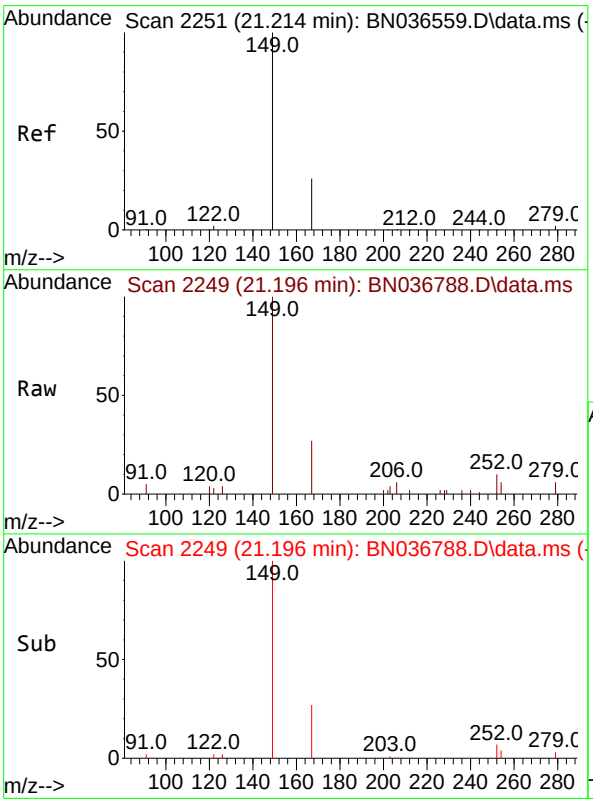
Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	20.3	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations APPROVED

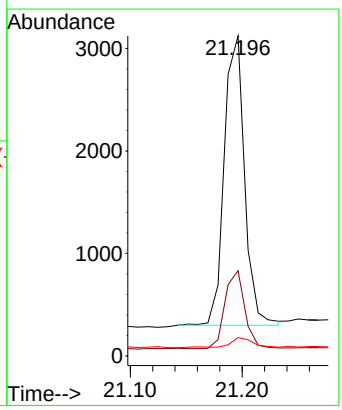
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

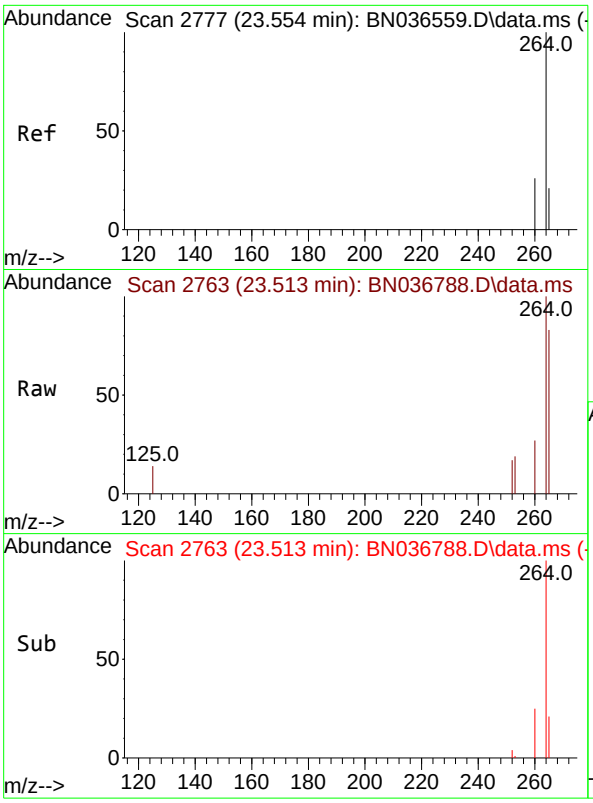


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.404 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:149 Resp: 3569

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	4.0	3.6	5.4

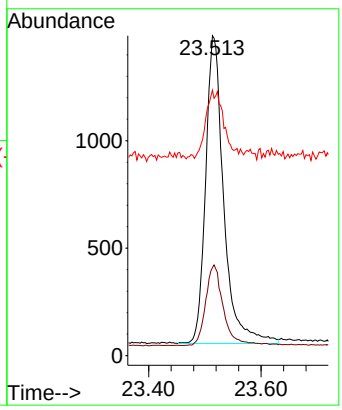




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 2
Delta R.T. -0.041 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:264 Resp: 321

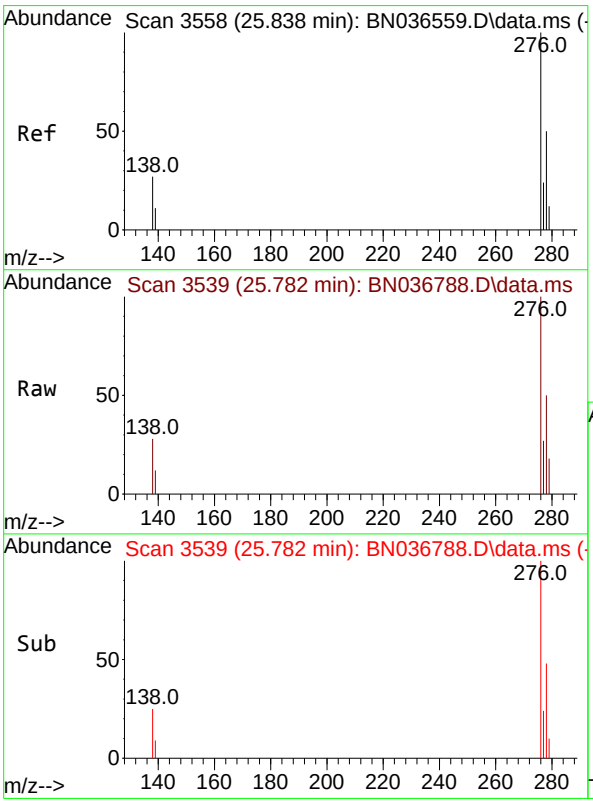
Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.6	33.8
265	83.0	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
APPROVED

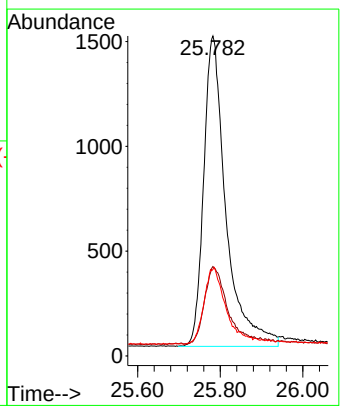
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

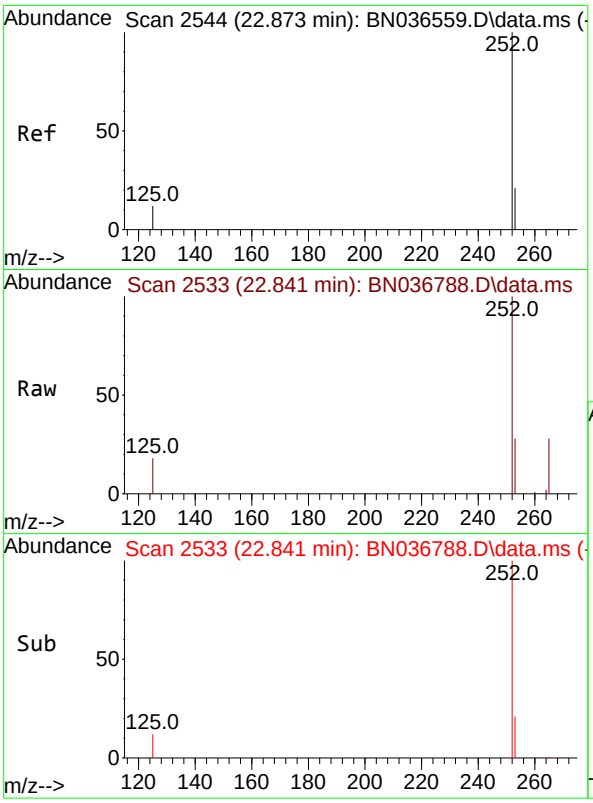


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.478 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:276 Resp: 5542

Ion	Ratio	Lower	Upper
276	100		
138	25.8	23.4	35.2
277	24.4	20.0	30.0

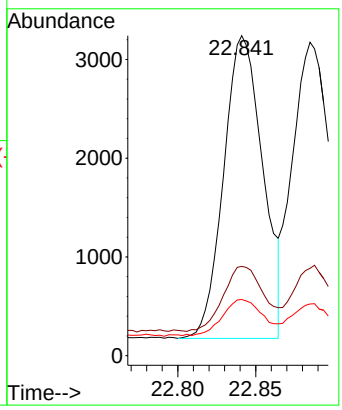




#37
Benzo(b)fluoranthene
Concen: 0.459 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:252 Resp: 537

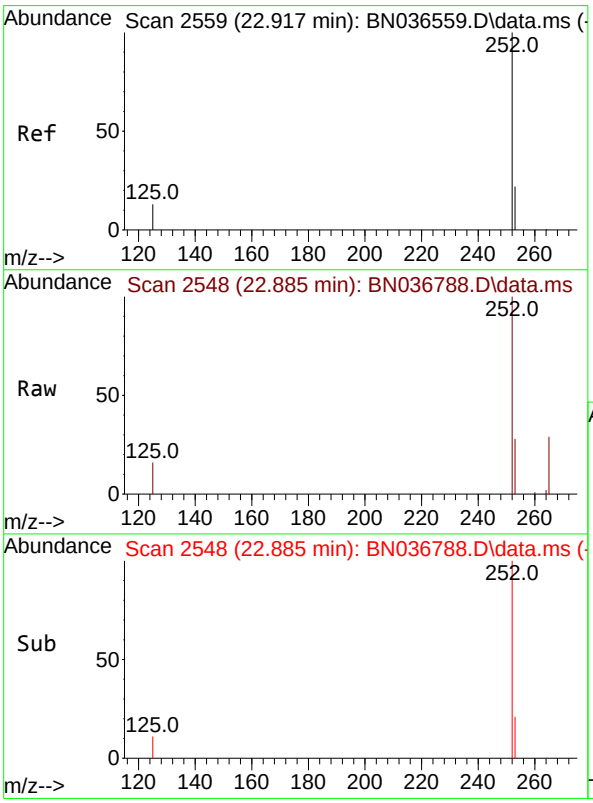
Ion	Ratio	Lower	Upper
252	100		
253	27.9	23.9	35.9
125	17.6	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
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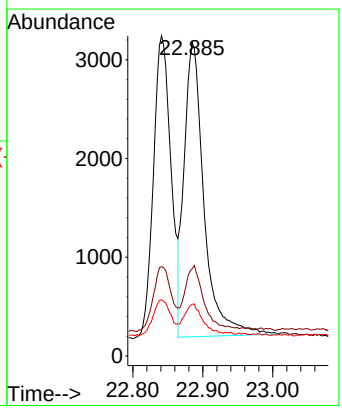
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

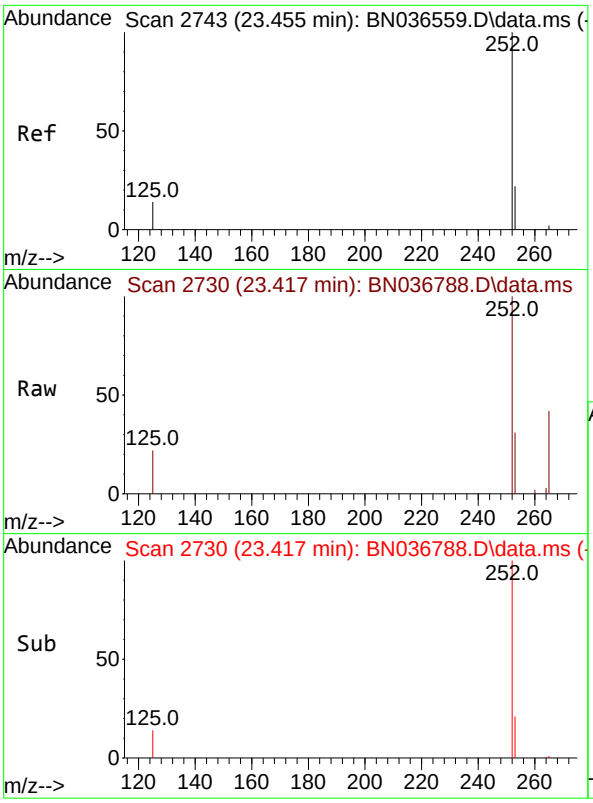


#38
Benzo(k)fluoranthene
Concen: 0.480 ng
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:252 Resp: 5891

Ion	Ratio	Lower	Upper
252	100		
253	27.9	24.6	36.8
125	16.5	17.8	26.8#

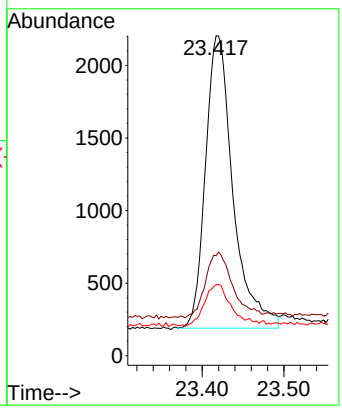




#39
Benzo(a)pyrene
Concen: 0.480 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:252 Resp: 472

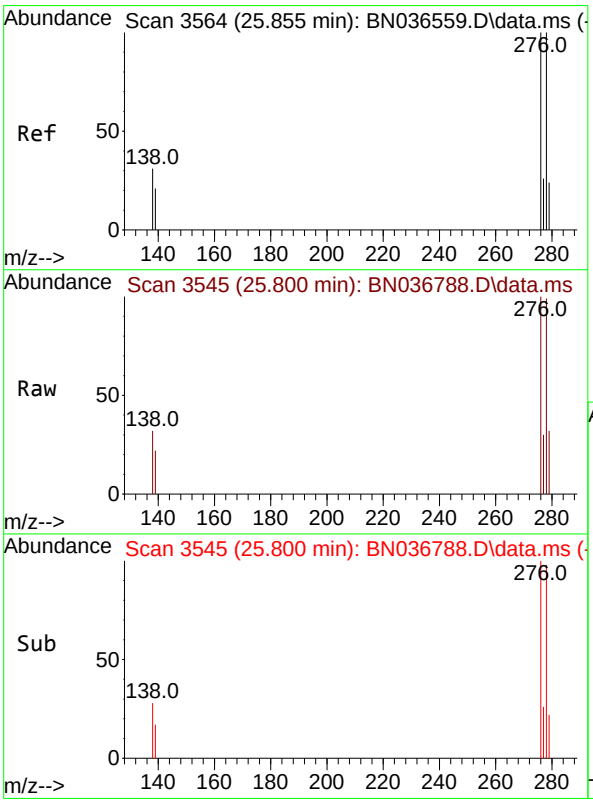
Ion	Ratio	Lower	Upper
252	100		
253	31.2	27.8	41.8
125	22.2	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
APPROVED

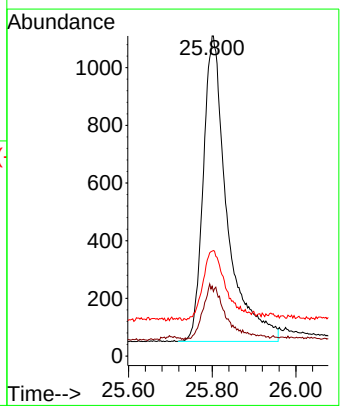
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

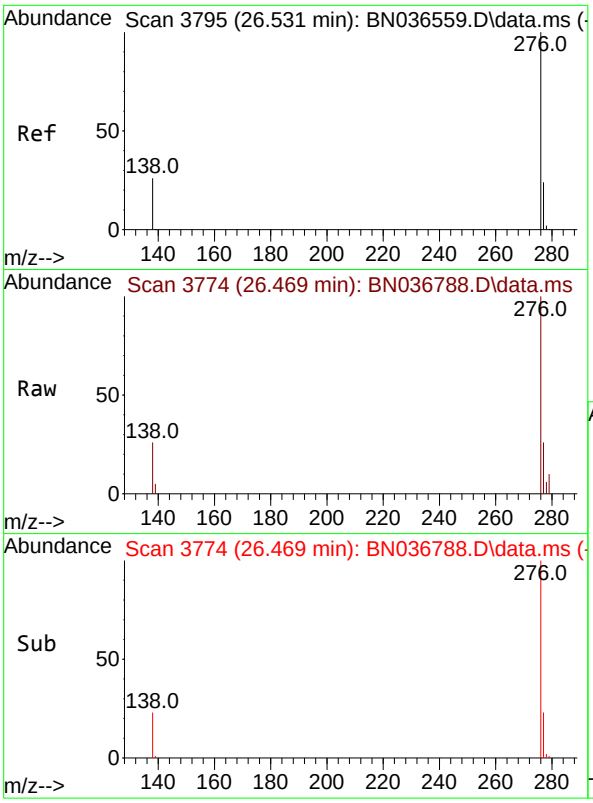


#40
Dibenzo(a,h)anthracene
Concen: 0.464 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:278 Resp: 4192

Ion	Ratio	Lower	Upper
278	100		
139	21.8	20.8	31.2
279	32.8	28.8	43.2

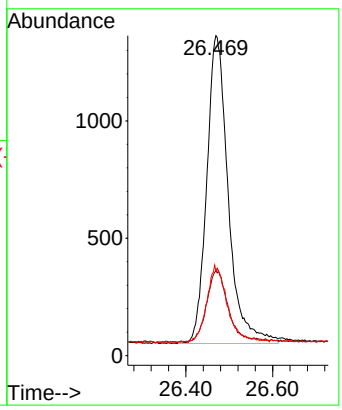




#41
Benzo(g,h,i)perylene
Concen: 0.437 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:276 Resp: 451

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	26.4	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D1-20250318MS	SDG No.:	Q1608
Lab Sample ID:	Q1608-12MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036766.D	1	03/20/25 10:49	03/28/25 10:22	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.10	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1720	7.696				
1146-65-2	Naphthalene-d8	4220	10.488				
15067-26-2	Acenaphthene-d10	2550	14.334				
1517-22-2	Phenanthrene-d10	5460	17.087				
1719-03-5	Chrysene-d12	5030	21.277				
1520-96-3	Perylene-d12	4280	23.519				

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\BN032725\
Data File : BN036766.D
Acq On : 28 Mar 2025 10:22
Operator : RC/JU
Sample : Q1608-12MS
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 28 10:50:15 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 :
RE132D1-20250318MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.696	152	1719	0.400	ng		-0.03
7) Naphthalene-d8	10.488	136	4220	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	2547	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5464	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5031	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	4284	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	762	0.190	ng		-0.02
5) Phenol-d6	6.872	99	581	0.117	ng		-0.03
8) Nitrobenzene-d5	8.843	82	1664	0.362	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2278	0.363	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	594	0.514	ng		-0.02
15) 2-Fluorobiphenyl	12.958	172	5179	0.350	ng		-0.03
27) Fluoranthene-d10	19.118	212	6867	0.490	ng		-0.02
31) Terphenyl-d14	19.722	244	4983	0.413	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	9556	5.011	ng		95
3) n-Nitrosodimethylamine	3.536	42	664	0.172	ng	#	94
6) bis(2-Chloroethyl)ether	7.125	93	2021	0.395	ng		95
9) Naphthalene	10.530	128	4582	0.369	ng		99
10) Hexachlorobutadiene	10.819	225	725	0.248	ng	#	97
12) 2-Methylnaphthalene	12.151	142	3013	0.381	ng		99
16) Acenaphthylene	14.056	152	5131	0.427	ng		100
17) Acenaphthene	14.398	154	3283	0.417	ng		99
18) Fluorene	15.393	166	4578	0.430	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	535	0.528	ng	#	62
21) 4-Bromophenyl-phenylether	16.280	248	1515	0.443	ng		92
22) Hexachlorobenzene	16.391	284	1585	0.384	ng		97
23) Atrazine	16.553	200	1480	0.539	ng		96
24) Pentachlorophenol	16.739	266	1640	0.870	ng		99
25) Phenanthrene	17.124	178	8119	0.495	ng		100
26) Anthracene	17.211	178	7262	0.491	ng		99
28) Fluoranthene	19.150	202	10130	0.550	ng	#	96
30) Pyrene	19.513	202	10685	0.434	ng		100
32) Benzo(a)anthracene	21.259	228	8271	0.473	ng		99
33) Chrysene	21.313	228	9301	0.487	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	7517	0.603	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	7387	0.478	ng		98
37) Benzo(b)fluoranthene	22.844	252	7695	0.494	ng		93
38) Benzo(k)fluoranthene	22.888	252	8394m	0.513	ng		
39) Benzo(a)pyrene	23.423	252	6740	0.513	ng	#	90
40) Dibenzo(a,h)anthracene	25.803	278	5802	0.482	ng		92
41) Benzo(g,h,i)perylene	26.475	276	5865	0.426	ng		96

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

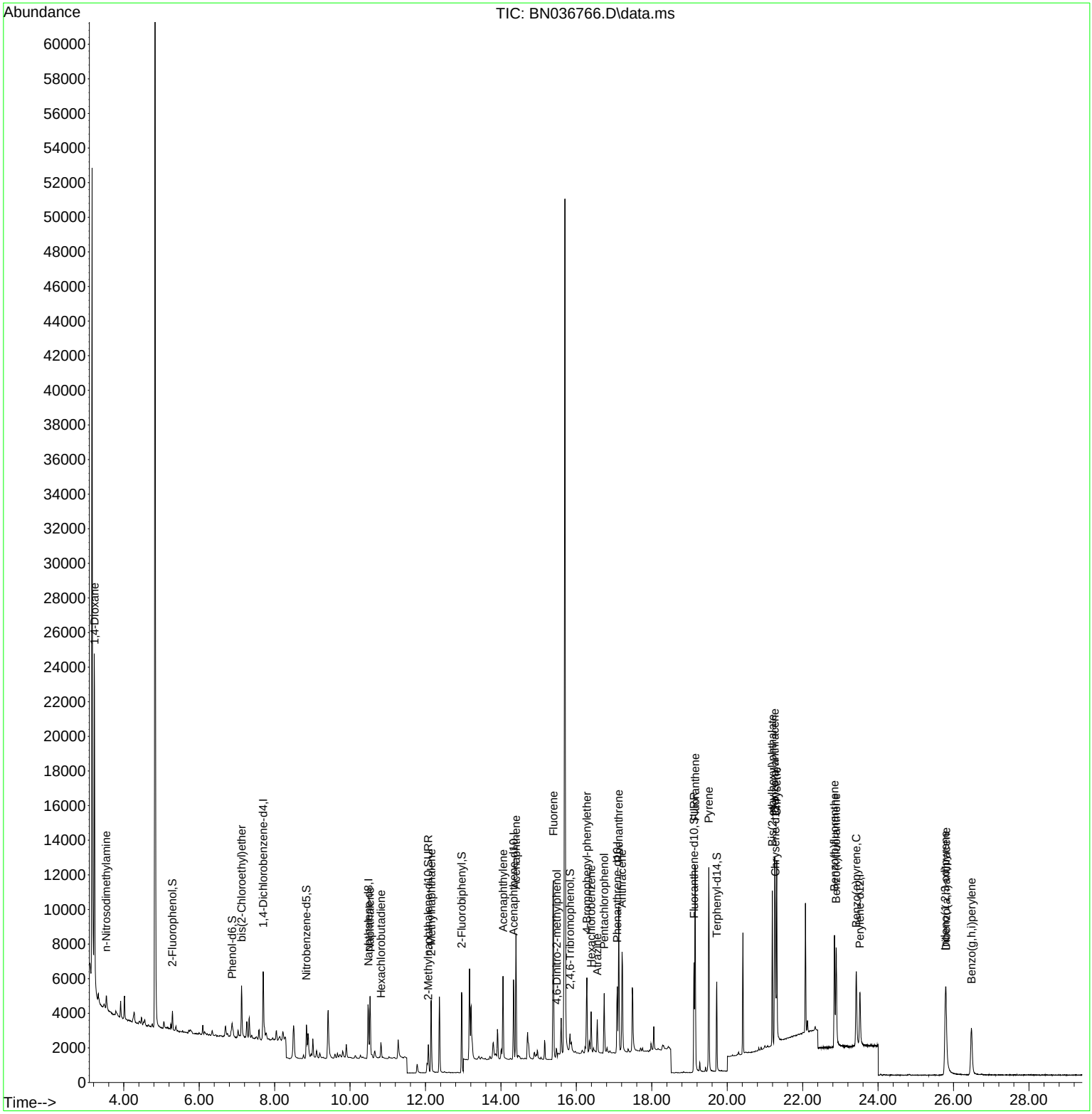
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Data File : BN036766.D
Acq On : 28 Mar 2025 10:22
Operator : RC/JU
Sample : Q1608-12MS
Misc :
ALS Vial : 31 Sample Multiplier: 1

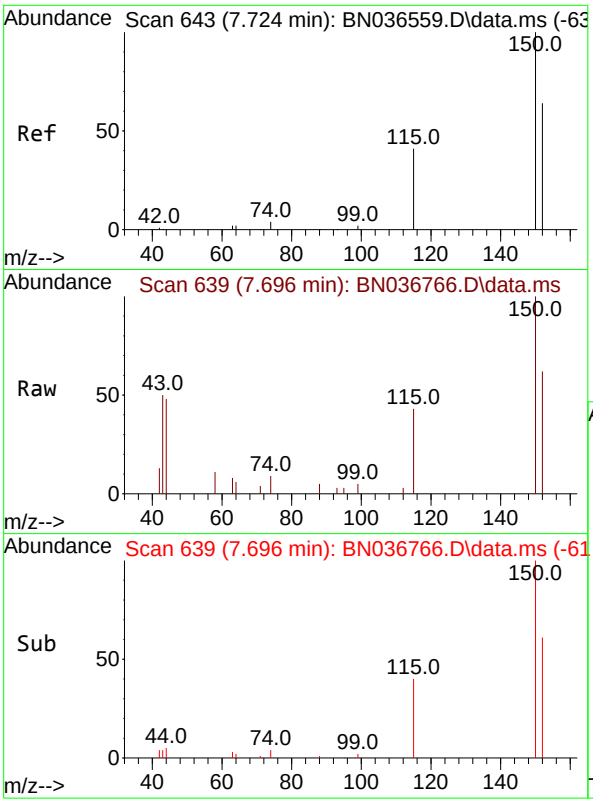
Quant Time: Mar 28 10:50:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/28/2025
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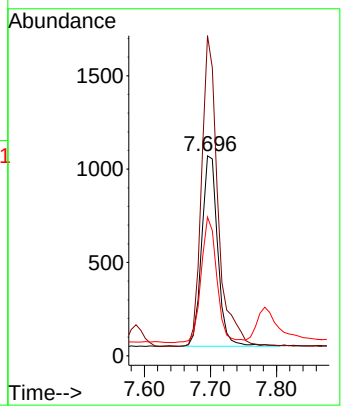




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:152 Resp: 171

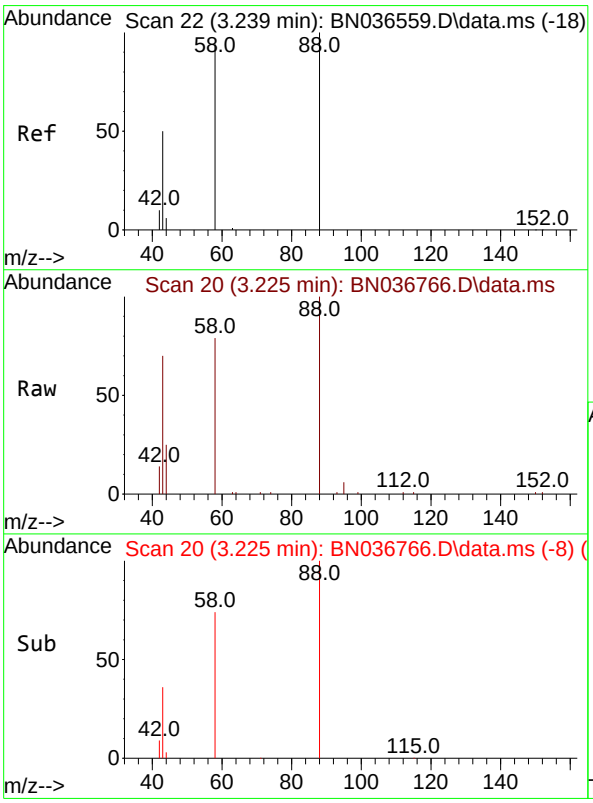
Ion	Ratio	Lower	Upper
152	100		
150	160.1	123.7	185.5
115	69.4	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

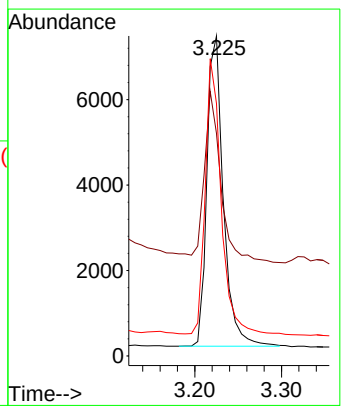
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

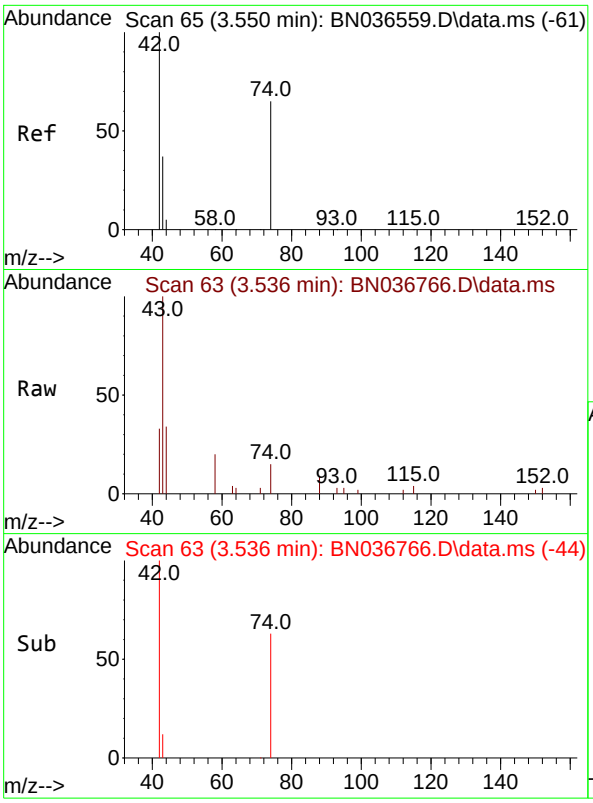


#2
1,4-Dioxane
Concen: 5.011 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion: 88 Resp: 9556

Ion	Ratio	Lower	Upper
88	100		
43	55.2	37.8	56.8
58	85.3	67.4	101.2

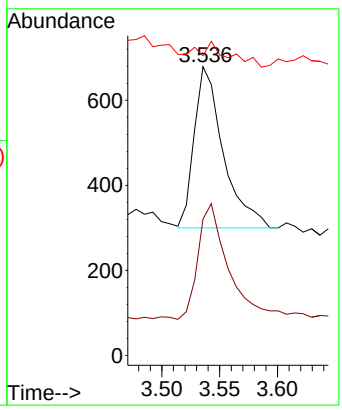




#3
n-Nitrosodimethylamine
Concen: 0.172 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion: 42 Resp: 66

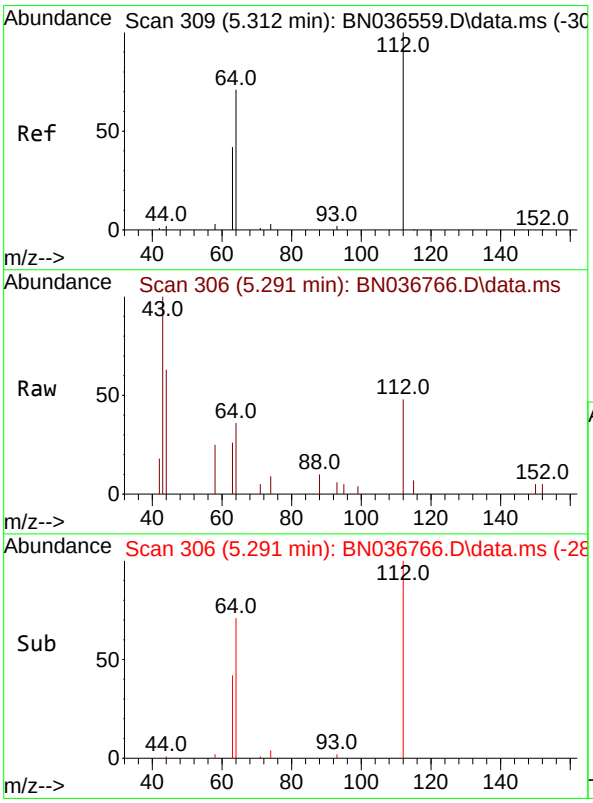
Ion	Ratio	Lower	Upper
42	100		
74	79.5	60.6	90.8
44	16.6	6.3	9.5#



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
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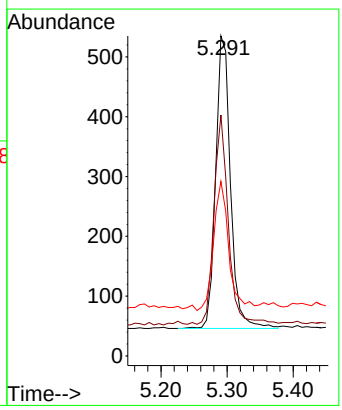
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

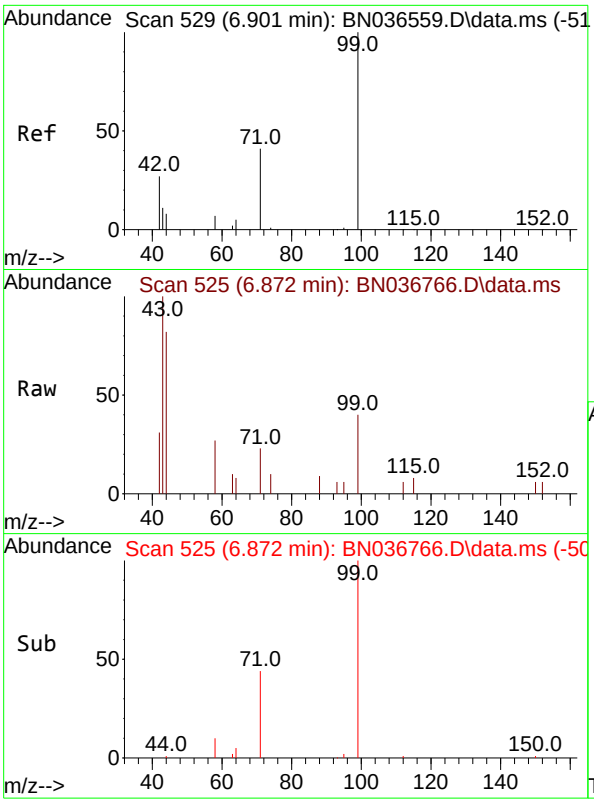


#4
2-Fluorophenol
Concen: 0.190 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:112 Resp: 762

Ion	Ratio	Lower	Upper
112	100		
64	69.2	53.1	79.7
63	45.8	31.8	47.8

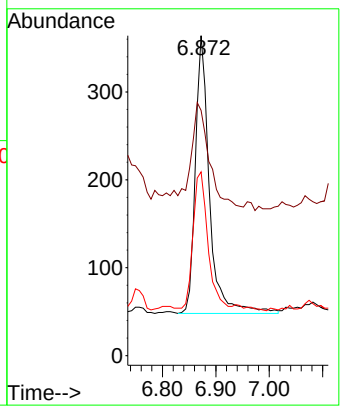




#5
Phenol-d6
Concen: 0.117 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion: 99 Resp: 58

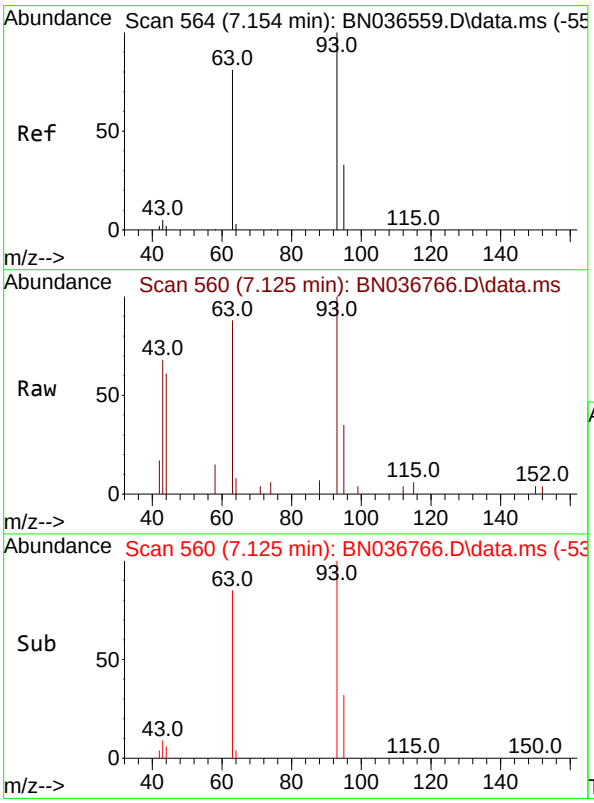
Ion	Ratio	Lower	Upper
99	100		
42	46.8	26.5	39.7#
71	50.8	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

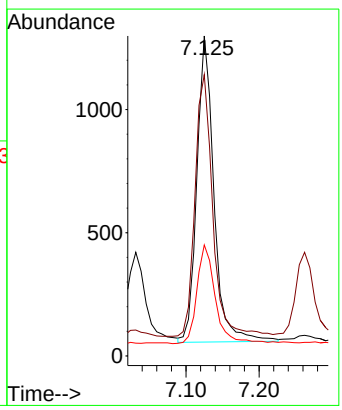
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

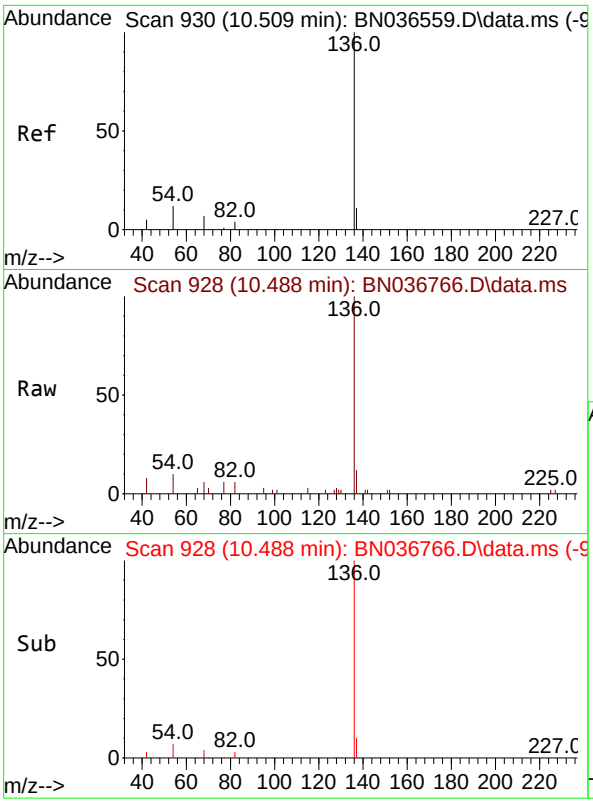


#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion: 93 Resp: 2021

Ion	Ratio	Lower	Upper
93	100		
63	88.2	67.7	101.5
95	35.3	25.6	38.4

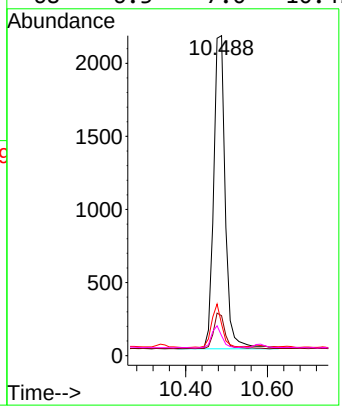




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:136 Resp: 422

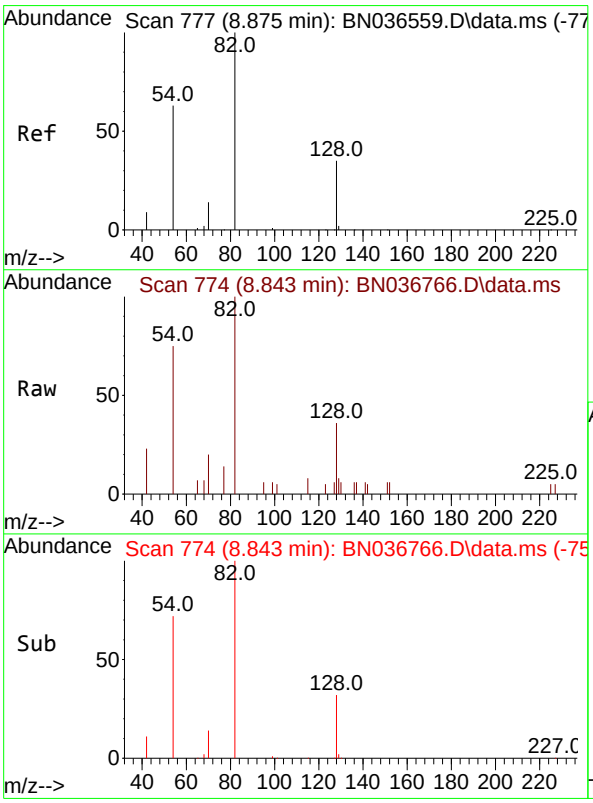
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	9.9	11.5	17.3#
68	6.3	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

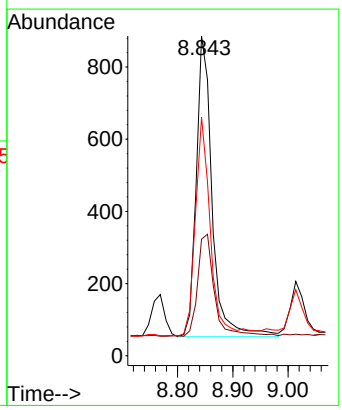
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

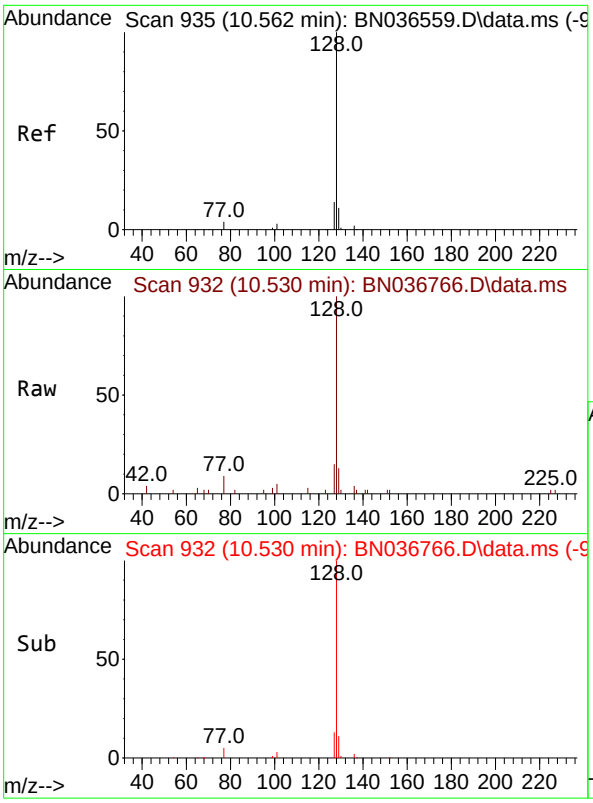


#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion: 82 Resp: 1664

Ion	Ratio	Lower	Upper
82	100		
128	36.5	30.6	45.8
54	74.6	52.2	78.4

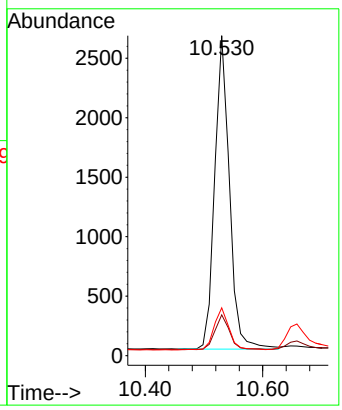




#9
Naphthalene
Concen: 0.369 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:128 Resp: 458

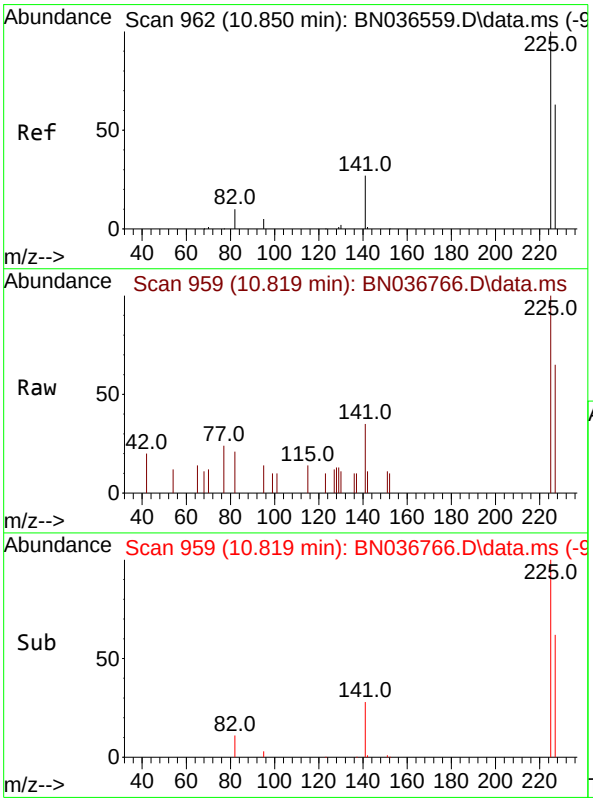
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	14.9	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

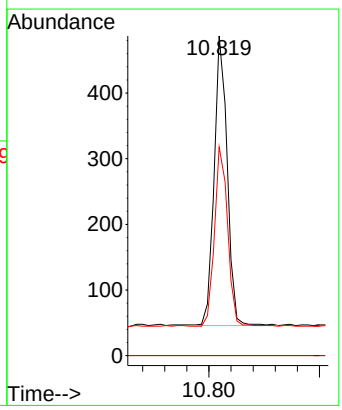
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

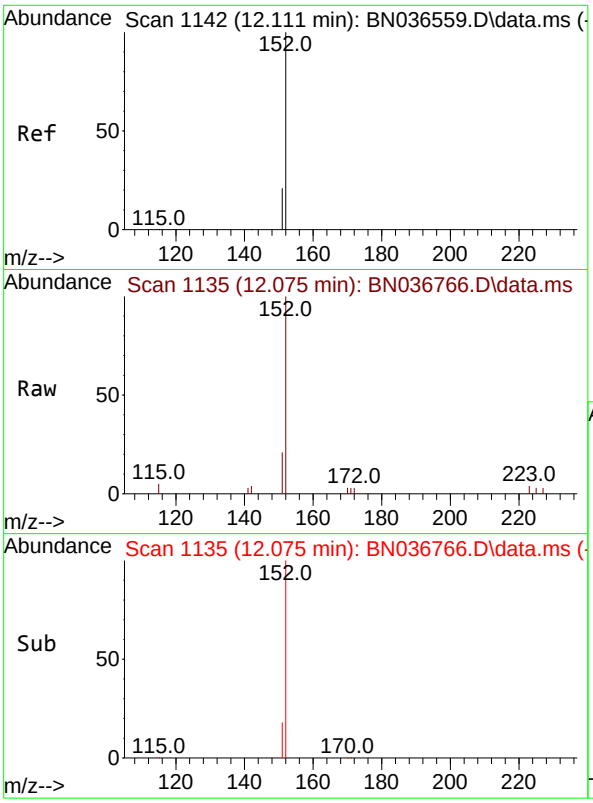


#10
Hexachlorobutadiene
Concen: 0.248 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:225 Resp: 725

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.1	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

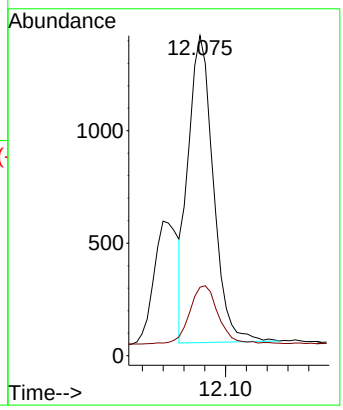
Tgt Ion:152 Resp: 227

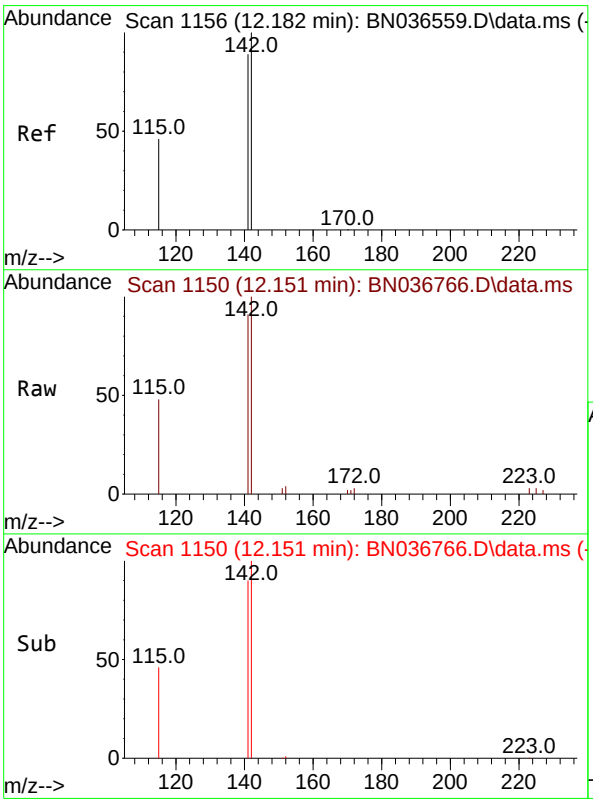
Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
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Reviewed By :Anahy Claudio 03/28/2025
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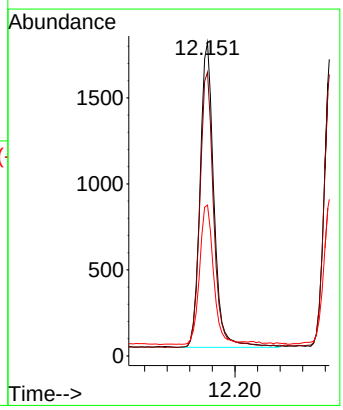


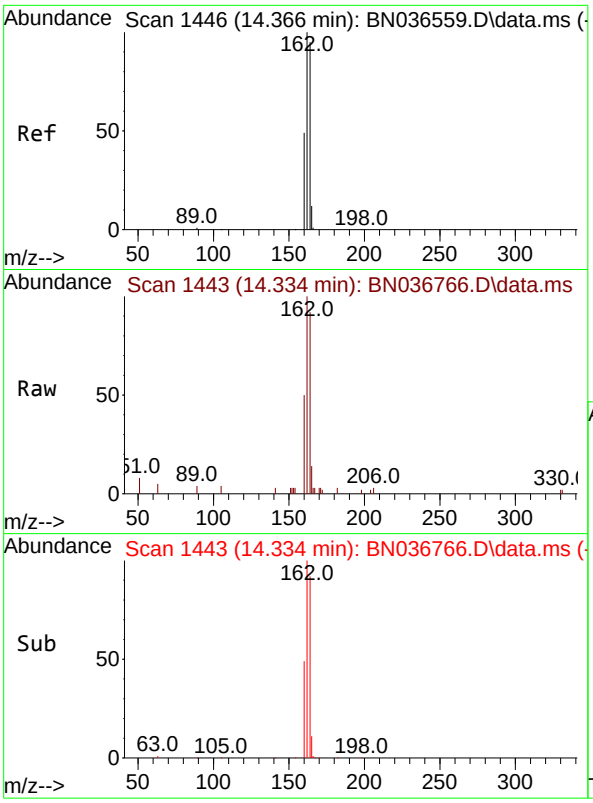


#12
2-Methylnaphthalene
Concen: 0.381 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:142 Resp: 3013

Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.7	107.5
115	48.1	38.3	57.5

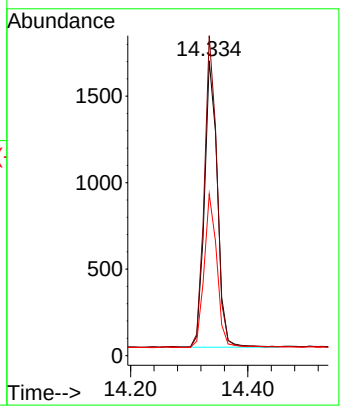




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:164 Resp: 254

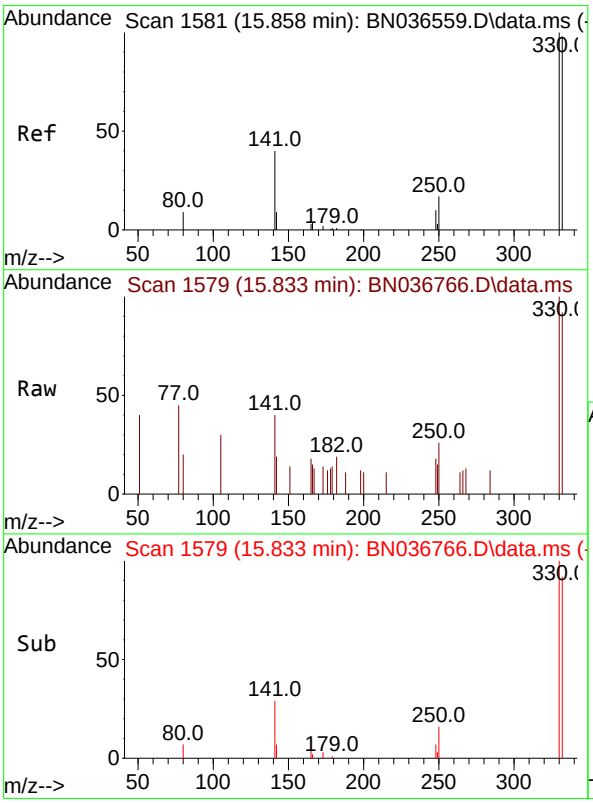
Ion	Ratio	Lower	Upper
164	100		
162	108.5	84.2	126.2
160	54.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

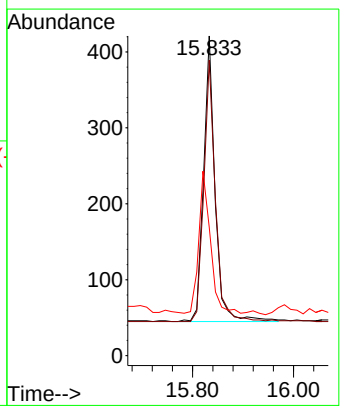
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

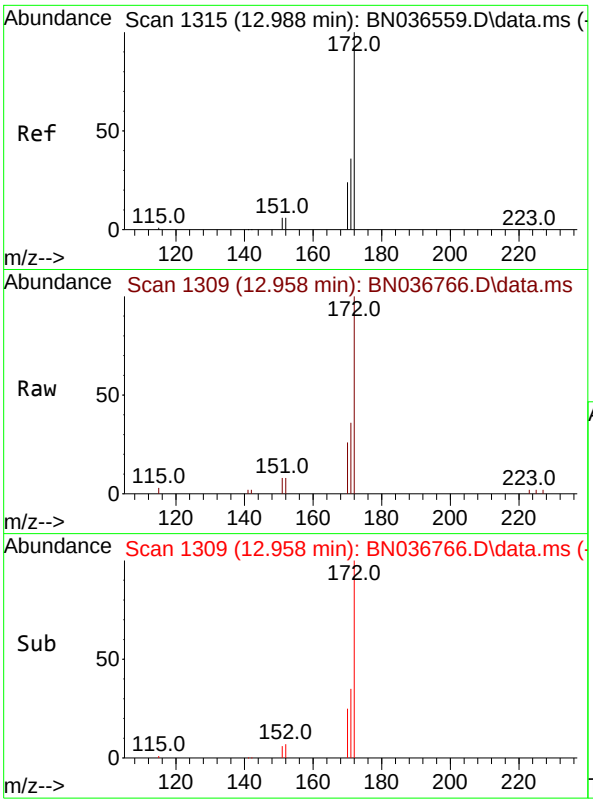


#14
2,4,6-Tribromophenol
Concen: 0.514 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:330 Resp: 594

Ion	Ratio	Lower	Upper
330	100		
332	92.9	75.2	112.8
141	50.3	43.4	65.2

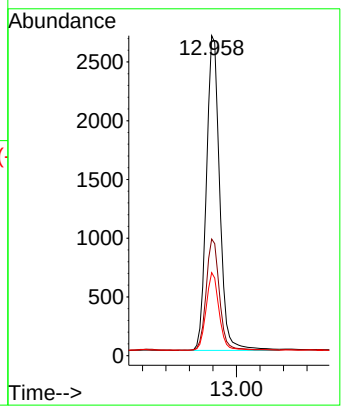




#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:172 Resp: 517

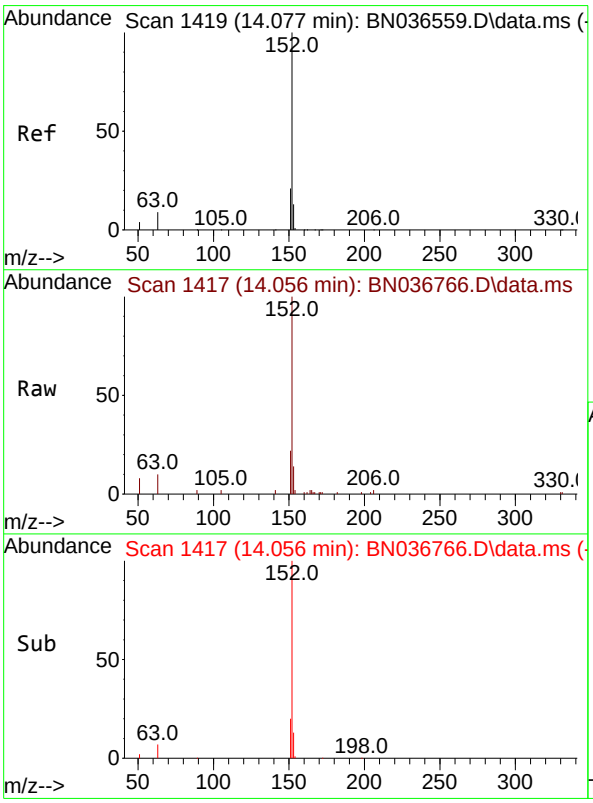
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	26.0	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
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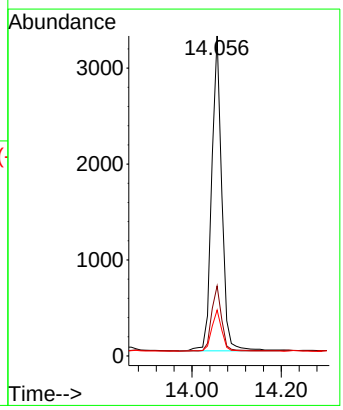
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

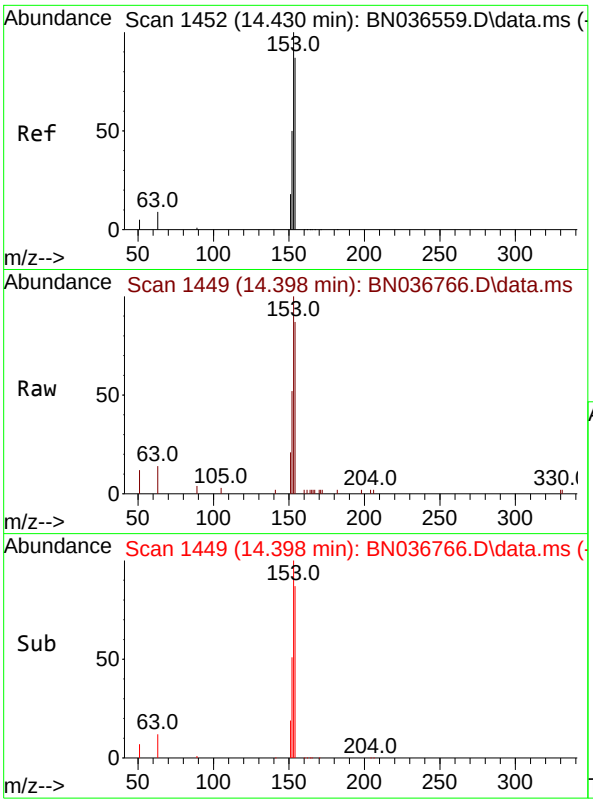


#16
Acenaphthylene
Concen: 0.427 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:152 Resp: 5131

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.1	10.6	15.8

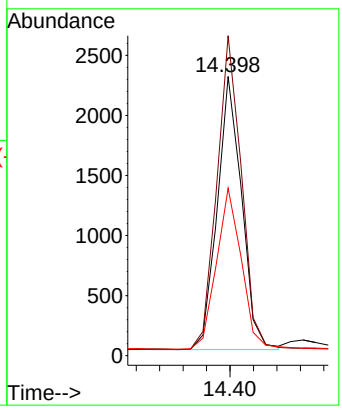




#17
Acenaphthene
Concen: 0.417 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:154 Resp: 328

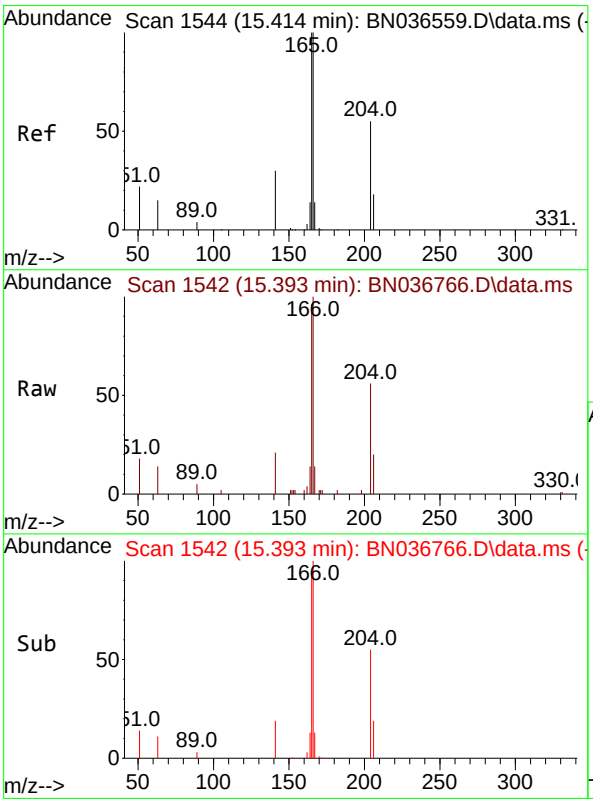
Ion	Ratio	Lower	Upper
154	100		
153	116.4	94.1	141.1
152	61.3	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

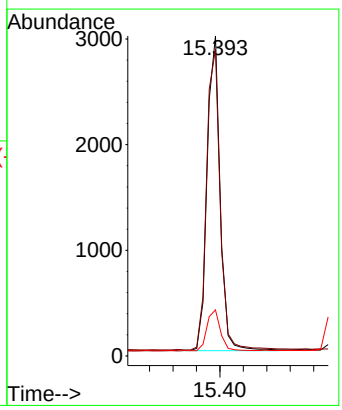
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

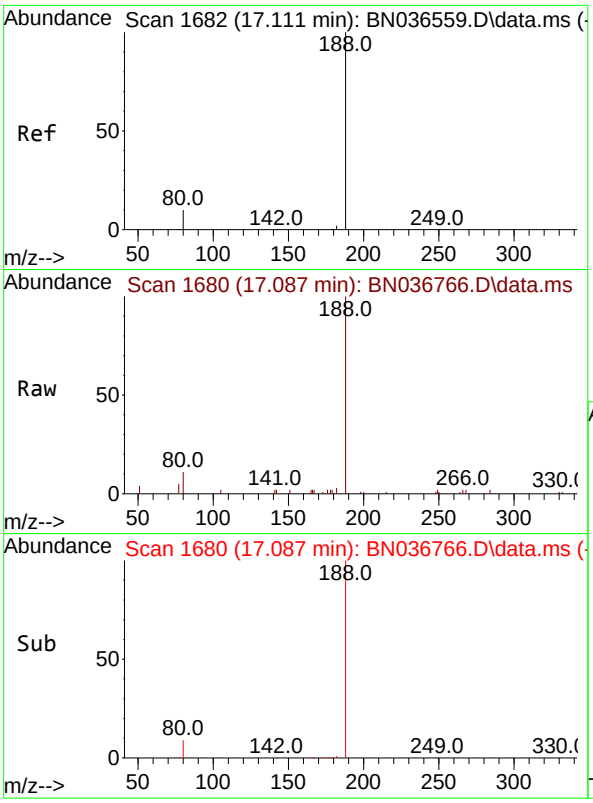


#18
Fluorene
Concen: 0.430 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:166 Resp: 4578

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.5	10.6	15.8

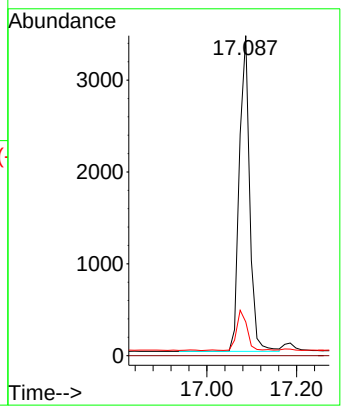




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:188 Resp: 546

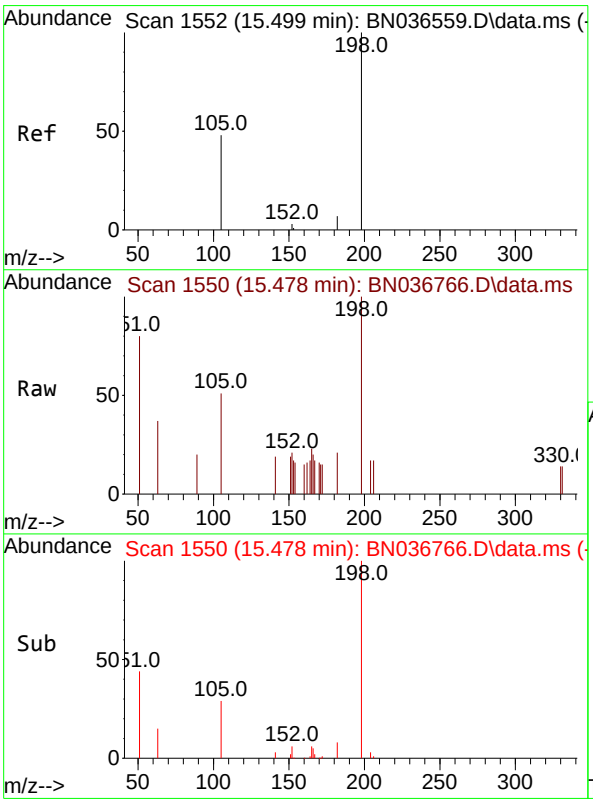
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

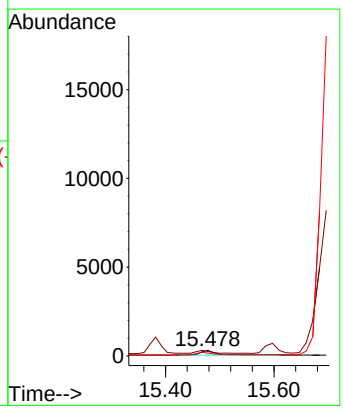
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

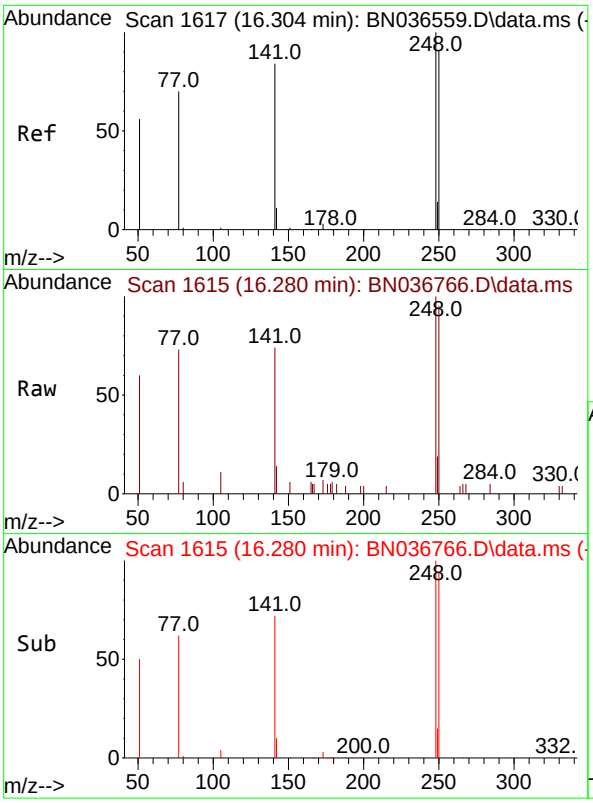


#20
4,6-Dinitro-2-methylphenol
Concen: 0.528 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:198 Resp: 535

Ion	Ratio	Lower	Upper
198	100		
51	80.1	107.9	161.9#
105	51.0	56.2	84.2#

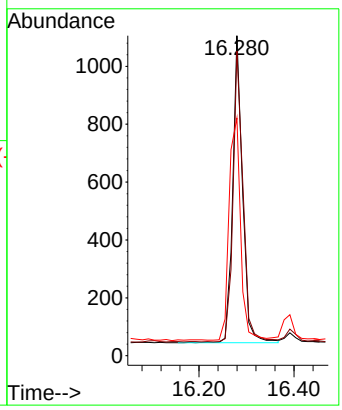




#21
4-Bromophenyl-phenylether
Concen: 0.443 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:248 Resp: 151

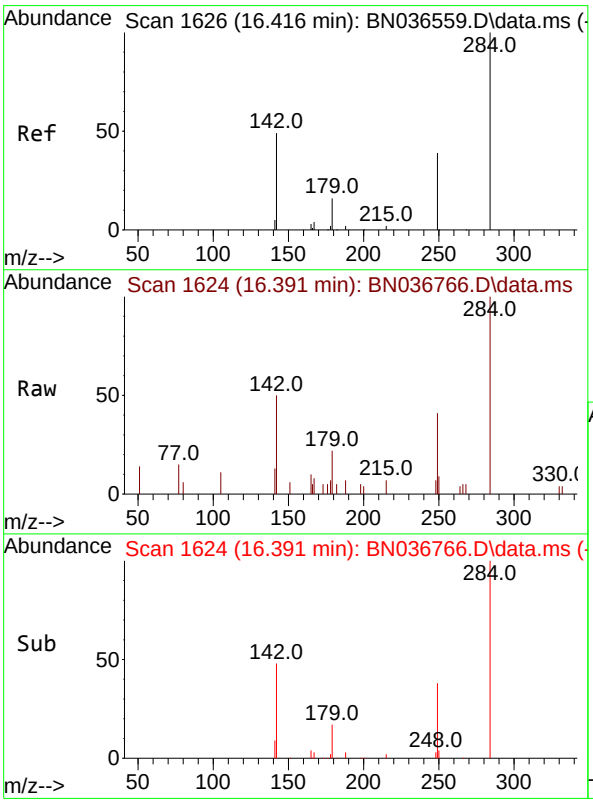
Ion	Ratio	Lower	Upper
248	100		
250	95.2	73.0	109.6
141	74.2	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

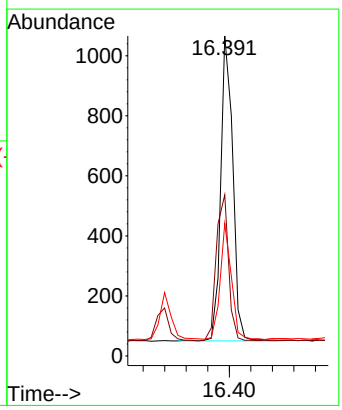
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

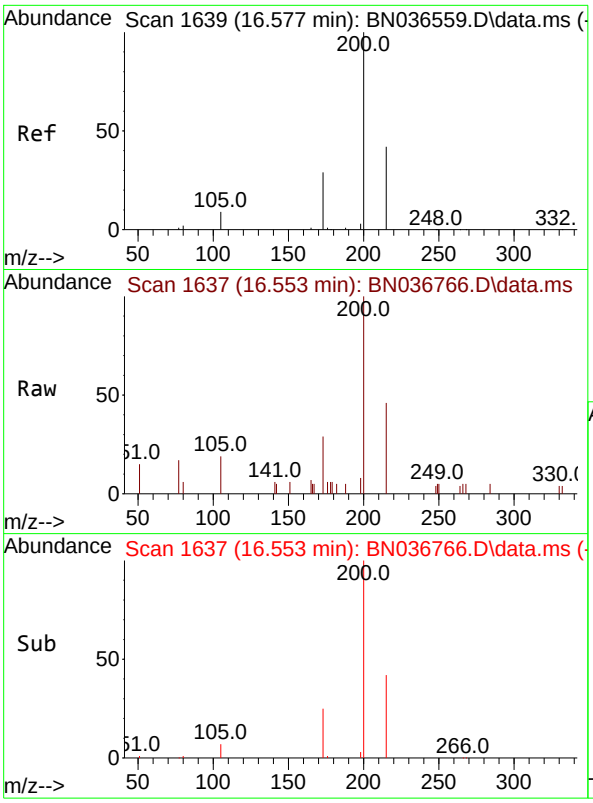


#22
Hexachlorobenzene
Concen: 0.384 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:284 Resp: 1585

Ion	Ratio	Lower	Upper
284	100		
142	49.1	37.0	55.4
249	35.3	28.1	42.1

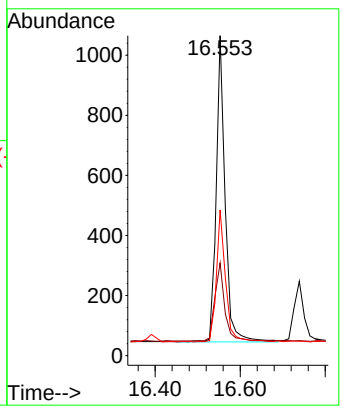




#23
Atrazine
Concen: 0.539 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:200 Resp: 148(

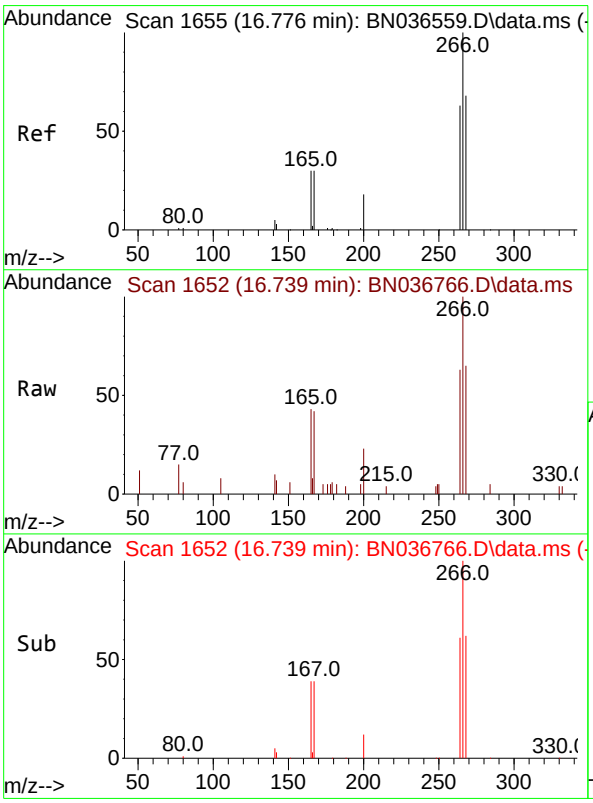
Ion	Ratio	Lower	Upper
200	100		
173	29.0	27.3	40.9
215	45.5	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

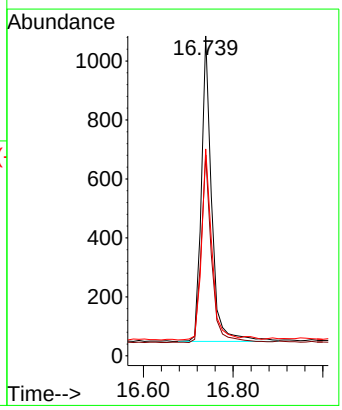
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

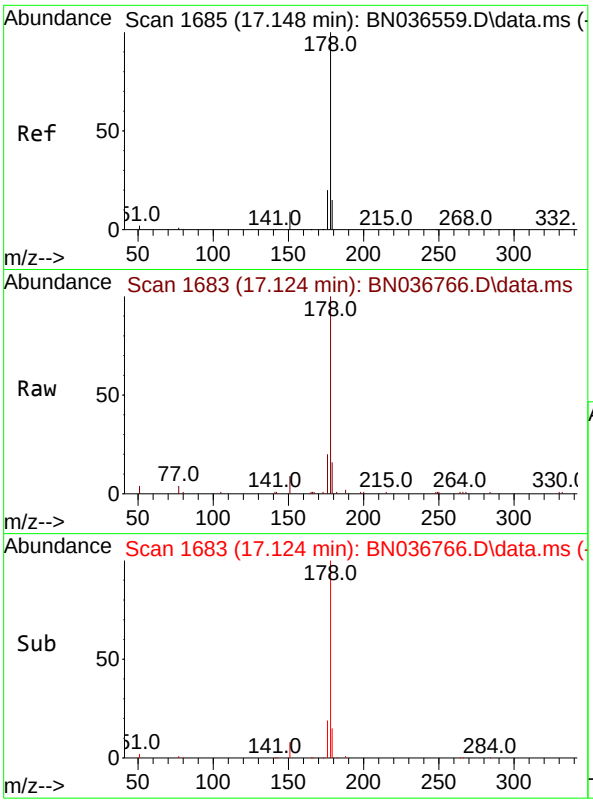


#24
Pentachlorophenol
Concen: 0.870 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:266 Resp: 1640

Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.6	74.4
268	62.0	50.9	76.3

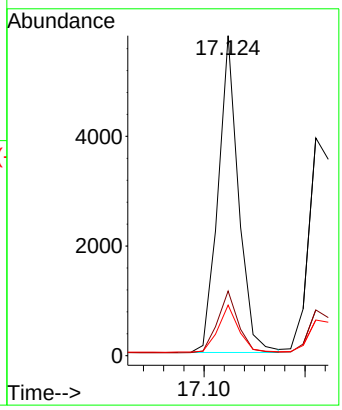




#25
Phenanthrene
Concen: 0.495 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:178 Resp: 811

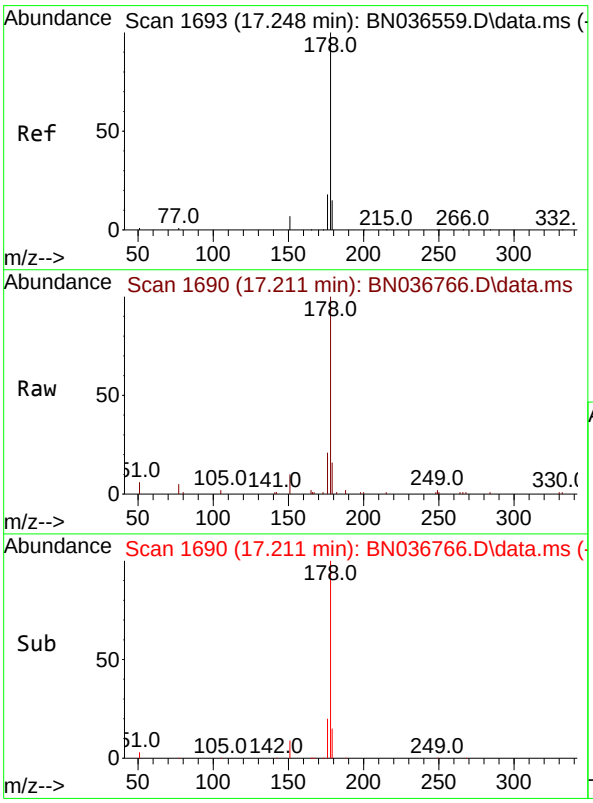
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.2	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

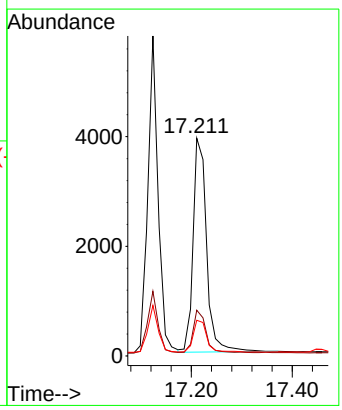
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

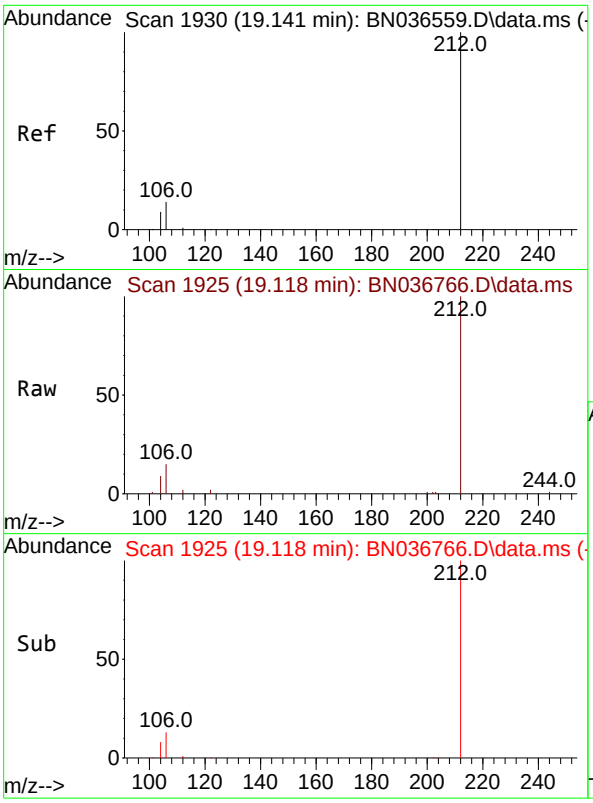


#26
Anthracene
Concen: 0.491 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:178 Resp: 7262

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	14.9	12.6	18.8

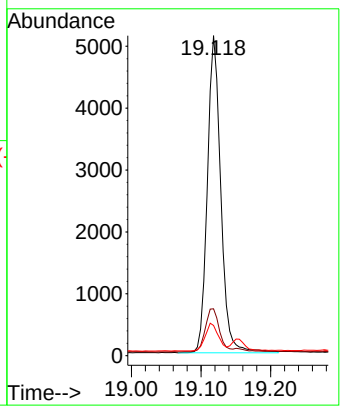




#27
Fluoranthene-d10
Concen: 0.490 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:212 Resp: 686

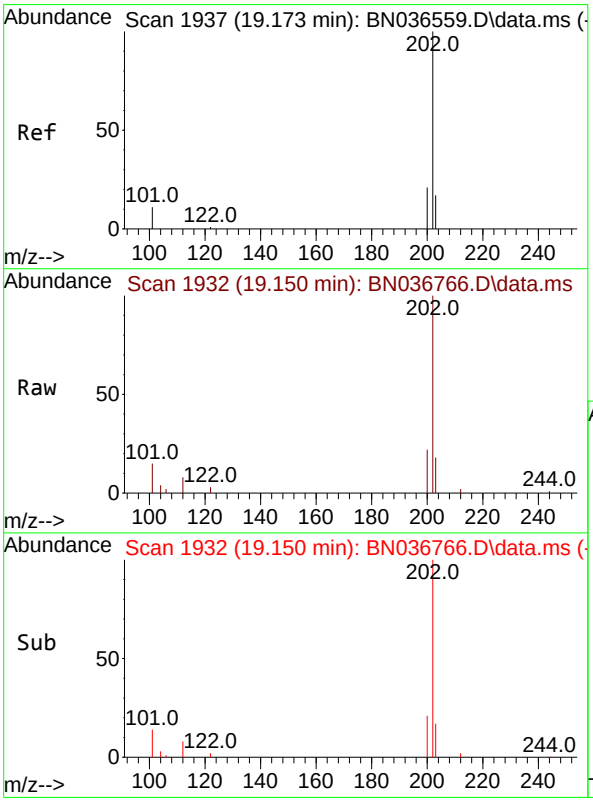
Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.8	17.6
104	8.5	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

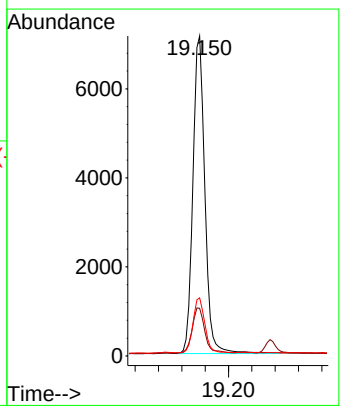
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

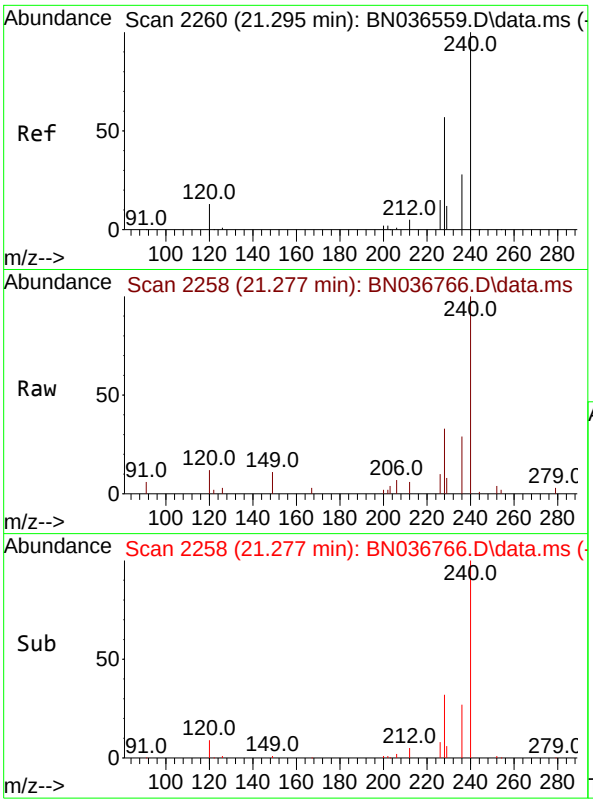


#28
Fluoranthene
Concen: 0.550 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:202 Resp: 10130

Ion	Ratio	Lower	Upper
202	100		
101	15.2	9.4	14.0#
203	17.1	13.5	20.3

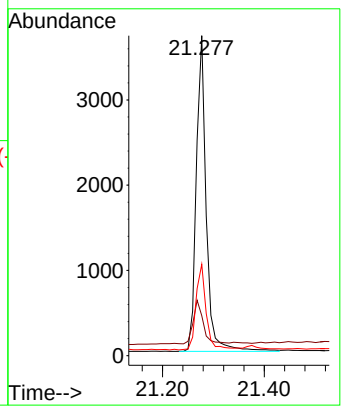




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:240 Resp: 503

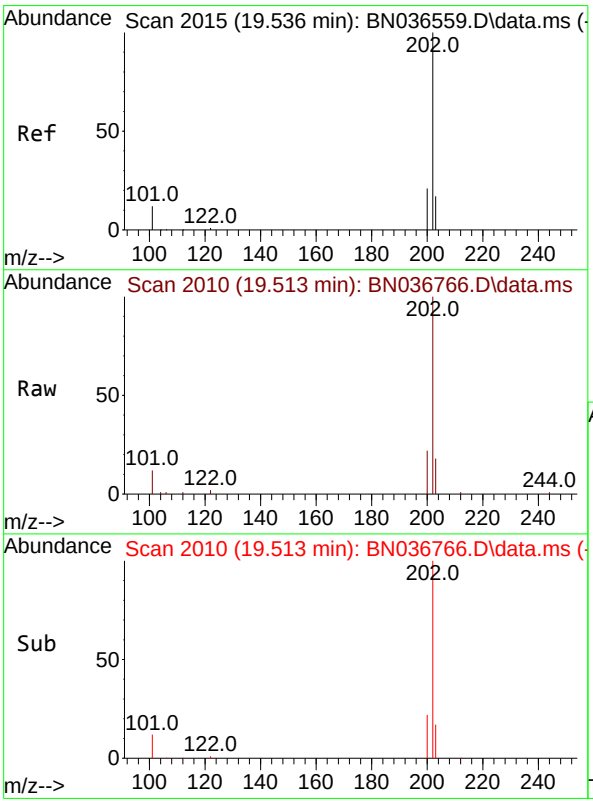
Ion	Ratio	Lower	Upper
240	100		
120	12.5	14.6	22.0
236	28.5	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
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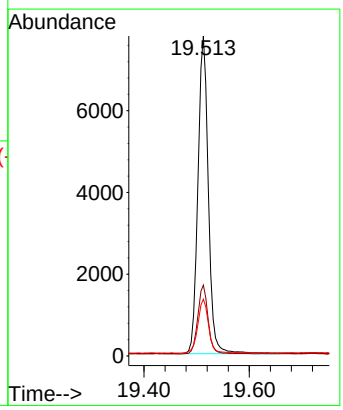
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

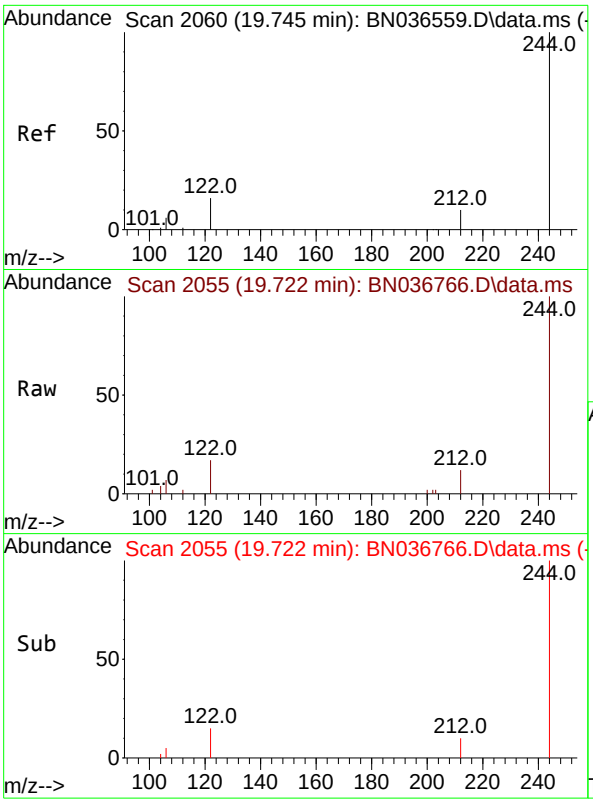


#30
Pyrene
Concen: 0.434 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:202 Resp: 10685

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.4	14.1	21.1

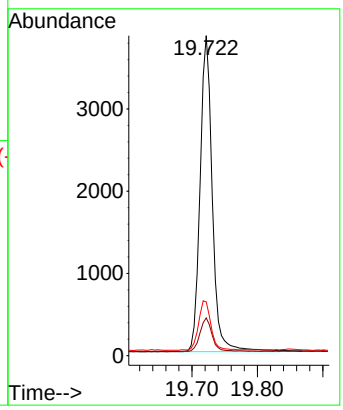




#31
Terphenyl-d14
Concen: 0.413 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:244 Resp: 498

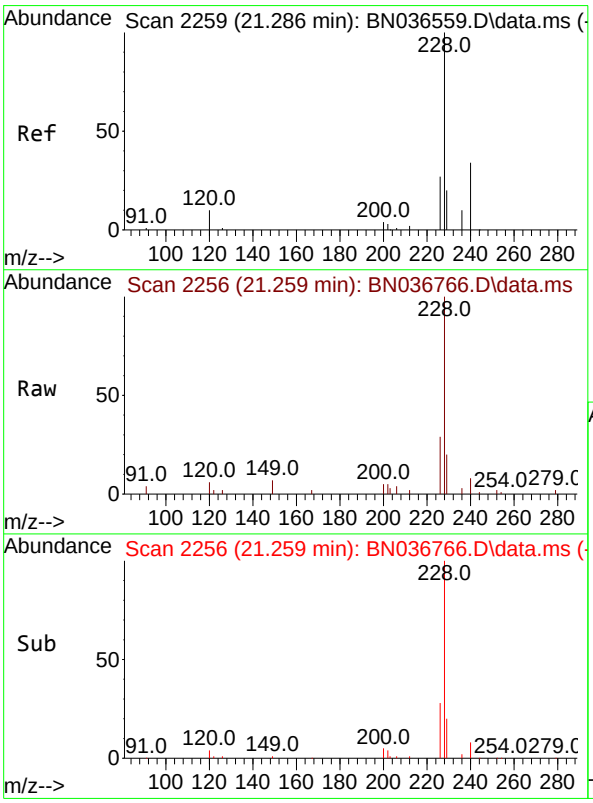
Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	16.8	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

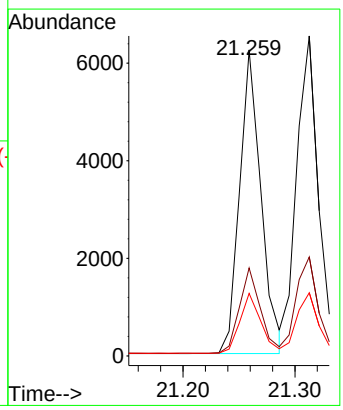
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

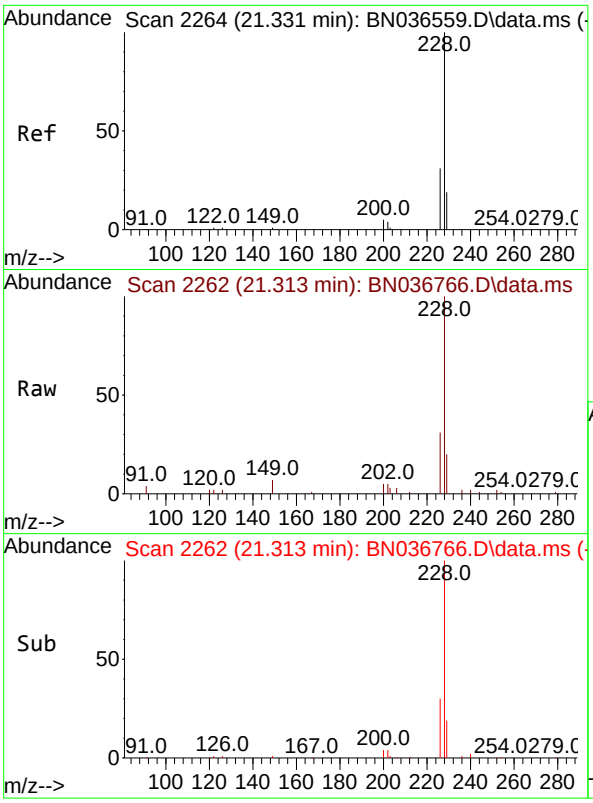


#32
Benzo(a)anthracene
Concen: 0.473 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:228 Resp: 8271

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.4	16.6	25.0

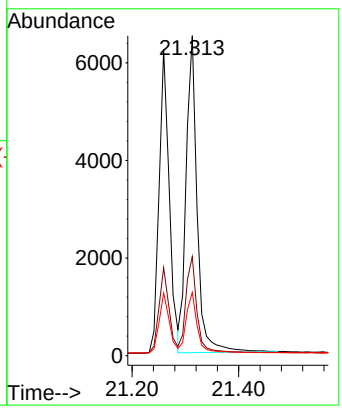




#33
Chrysene
Concen: 0.487 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:228 Resp: 930

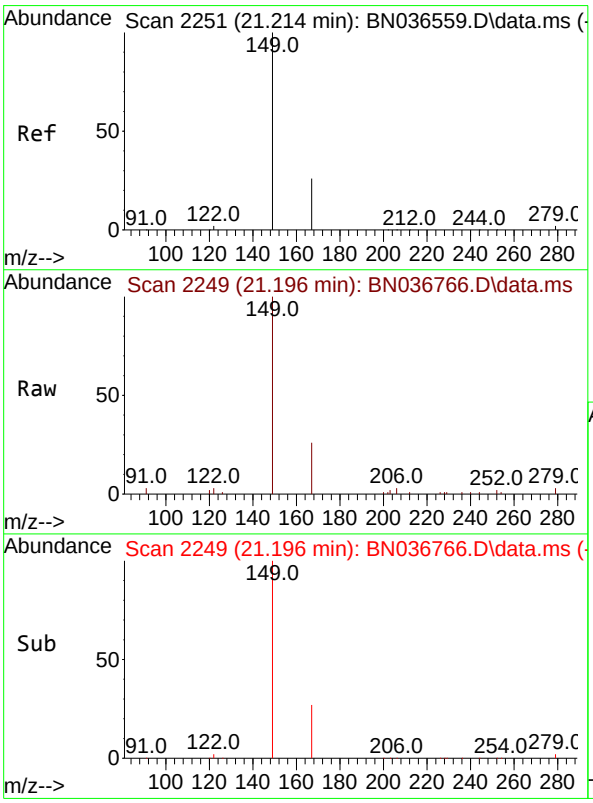
Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.3	37.9
229	19.7	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

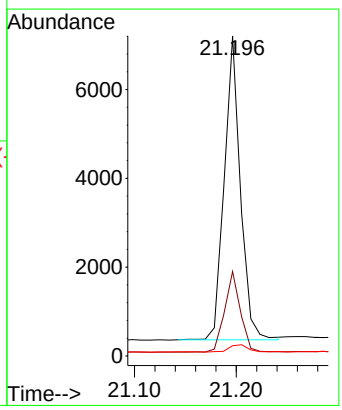
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

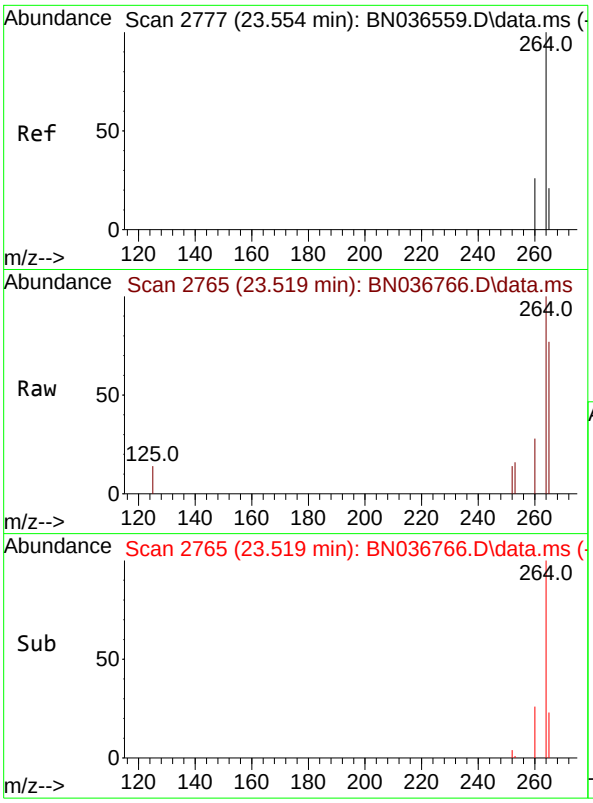


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.603 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:149 Resp: 7517

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	2.8	3.6	5.4#

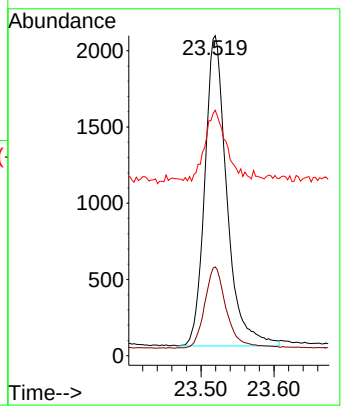




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:264 Resp: 428

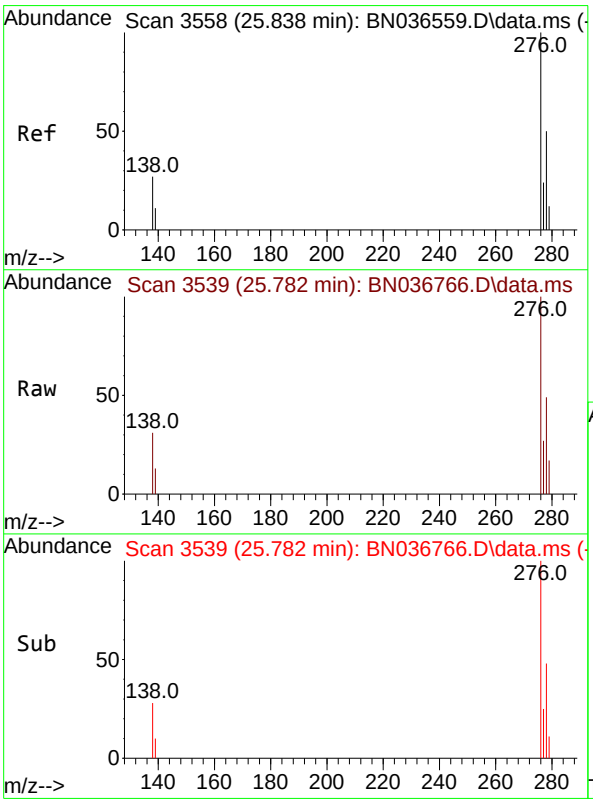
Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	76.7	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

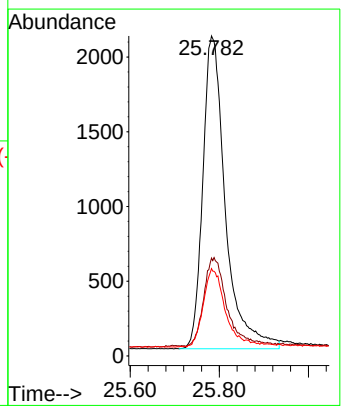
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

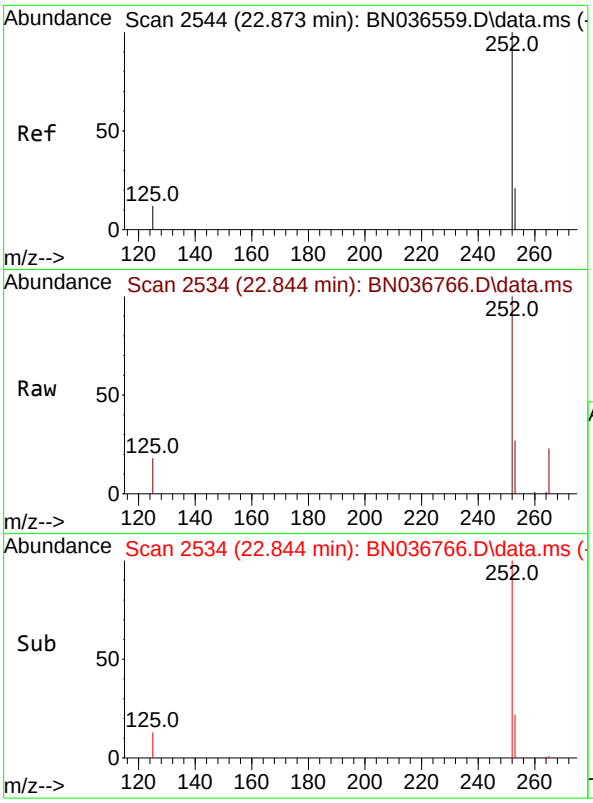


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.478 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:276 Resp: 7387

Ion	Ratio	Lower	Upper
276	100		
138	28.2	23.4	35.2
277	23.7	20.0	30.0

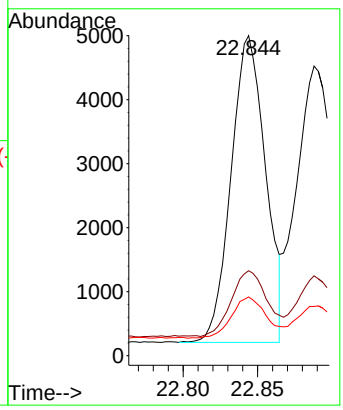




#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:252 Resp: 769

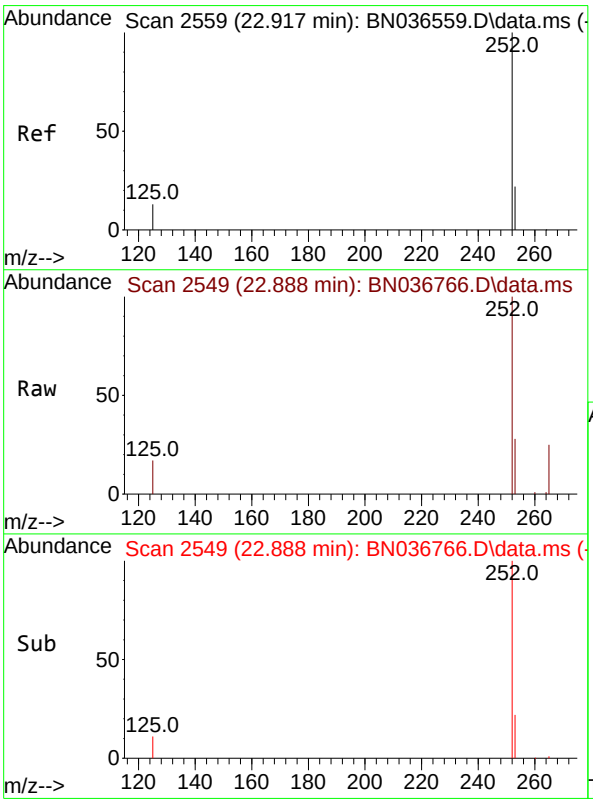
Ion	Ratio	Lower	Upper
252	100		
253	26.6	23.9	35.9
125	18.4	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

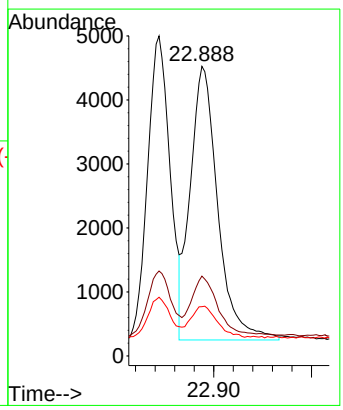
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

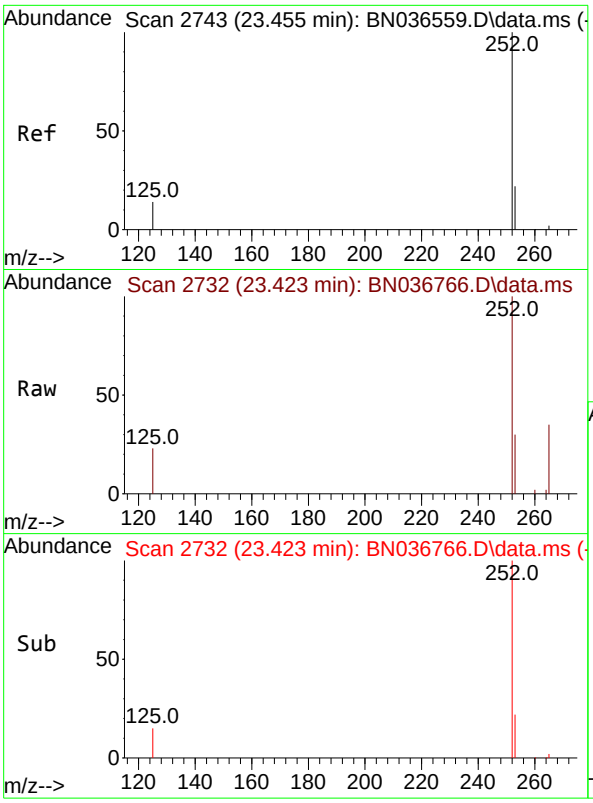


#38
Benzo(k)fluoranthene
Concen: 0.513 ng m
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:252 Resp: 8394

Ion	Ratio	Lower	Upper
252	100		
253	27.6	24.6	36.8
125	17.0	17.8	26.8#

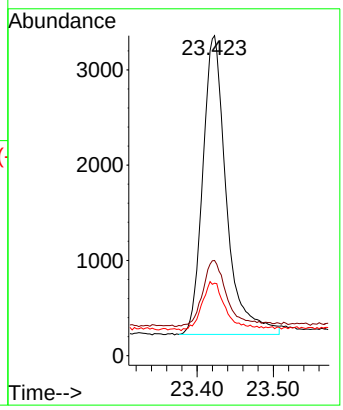




#39
Benzo(a)pyrene
Concen: 0.513 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:252 Resp: 674

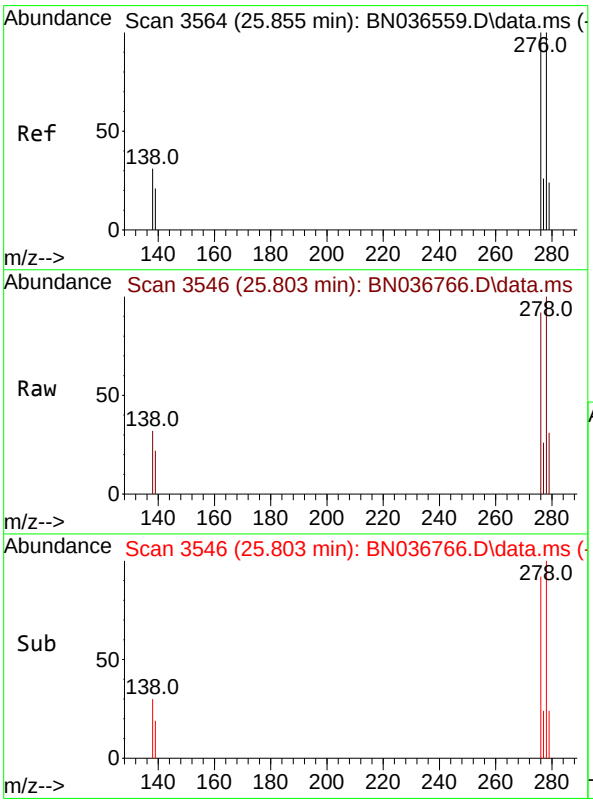
Ion	Ratio	Lower	Upper
252	100		
253	29.7	27.8	41.8
125	22.7	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

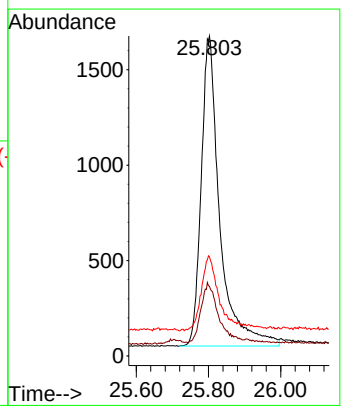
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

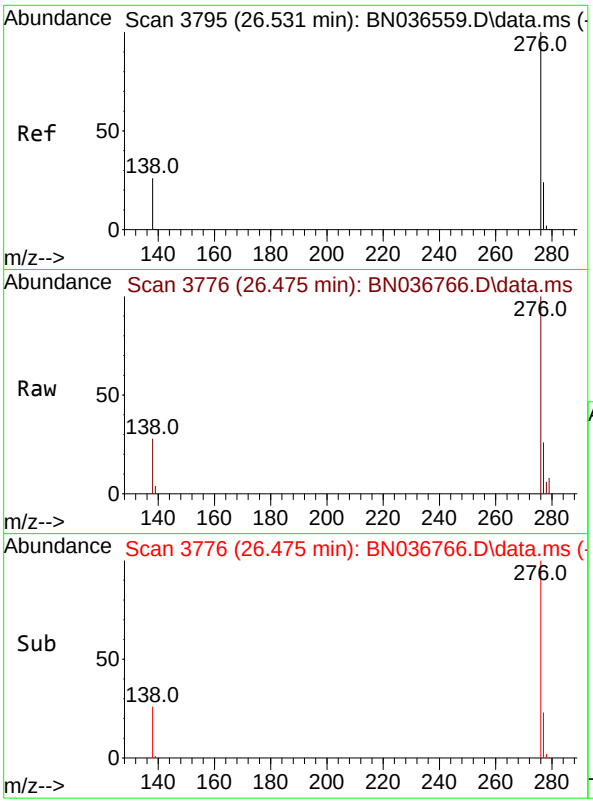


#40
Dibenzo(a,h)anthracene
Concen: 0.482 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:278 Resp: 5802

Ion	Ratio	Lower	Upper
278	100		
139	21.8	20.8	31.2
279	31.1	28.8	43.2

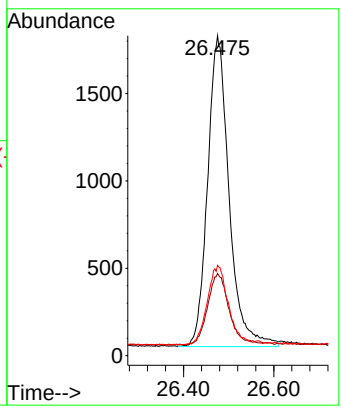




#41
Benzo(g,h,i)perylene
Concen: 0.426 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:276 Resp: 586

Ion	Ratio	Lower	Upper
276	100		
277	25.7	22.2	33.4
138	28.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	03/18/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/19/25
Client Sample ID:	RE132D1-20250318MSD	SDG No.:	Q1608
Lab Sample ID:	Q1608-13MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036767.D	1	03/20/25 10:49	03/28/25 10:58	PB167232

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.00		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1370	7.695				
1146-65-2	Naphthalene-d8	3400	10.487				
15067-26-2	Acenaphthene-d10	2160	14.334				
1517-22-2	Phenanthrene-d10	4730	17.086				
1719-03-5	Chrysene-d12	4520	21.277				
1520-96-3	Perylene-d12	4000	23.519				

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\BN032725\
Data File : BN036767.D
Acq On : 28 Mar 2025 10:58
Operator : RC/JU
Sample : Q1608-13MSD
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Quant Time: Mar 28 11:32:03 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

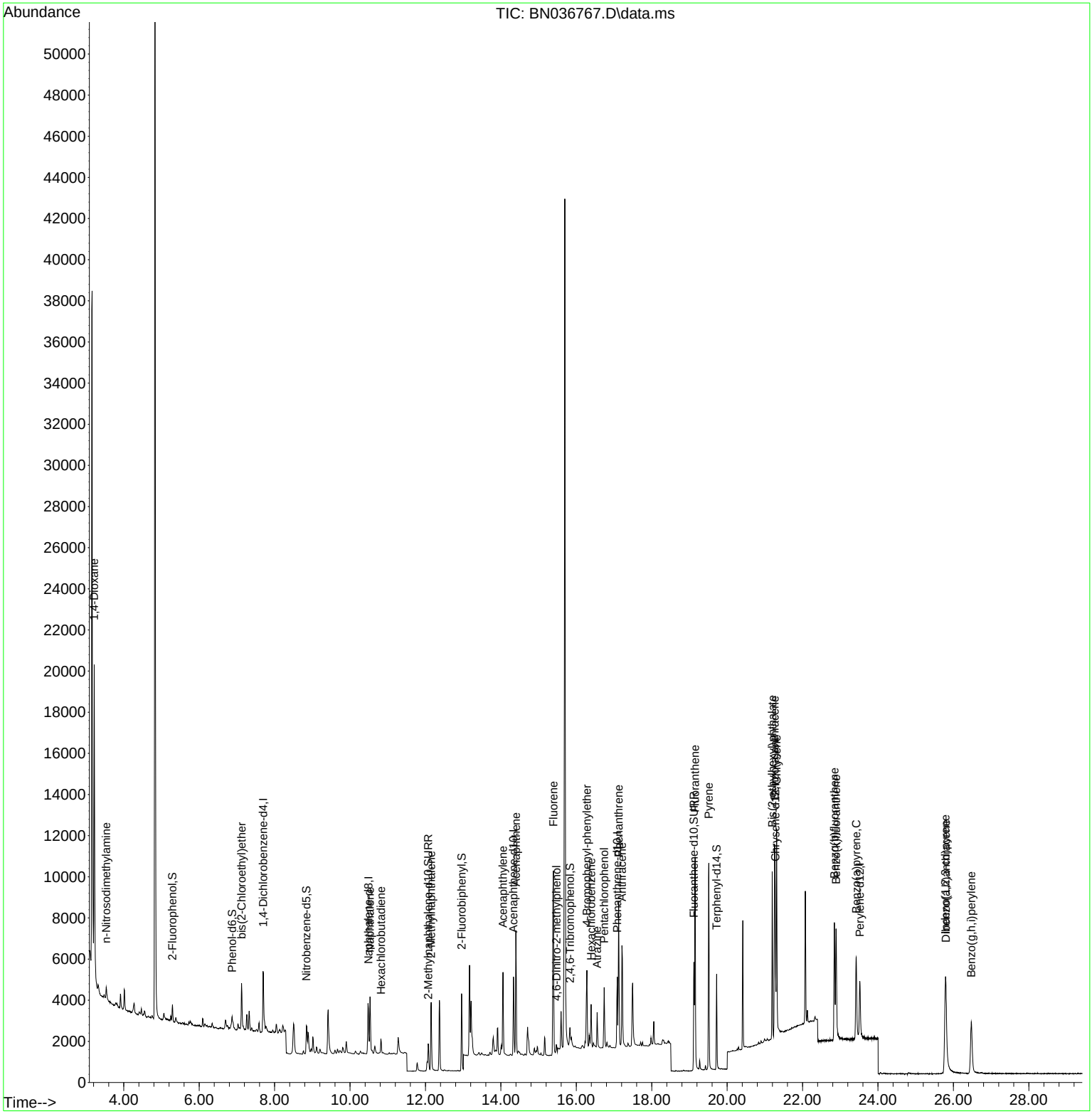
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1372	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3404	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2163	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4733	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4518	0.400	ng	#-0.02
35) Perylene-d12	23.519	264	3998	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	599	0.187	ng	-0.02
5) Phenol-d6	6.872	99	451	0.114	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1279	0.345	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	1977	0.390	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	503	0.512	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	4700	0.374	ng	-0.03
27) Fluoranthene-d10	19.118	212	5965	0.492	ng	-0.02
31) Terphenyl-d14	19.722	244	4416	0.408	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.218	88	7586	4.984	ng	# 93
3) n-Nitrosodimethylamine	3.535	42	511	0.166	ng	# 96
6) bis(2-Chloroethyl)ether	7.125	93	1581	0.387	ng	98
9) Naphthalene	10.530	128	3708	0.370	ng	99
10) Hexachlorobutadiene	10.818	225	581	0.247	ng	# 97
12) 2-Methylnaphthalene	12.151	142	2426	0.381	ng	99
16) Acenaphthylene	14.056	152	4270	0.418	ng	100
17) Acenaphthene	14.398	154	2708	0.405	ng	100
18) Fluorene	15.392	166	3898	0.431	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	479	0.541	ng	# 69
21) 4-Bromophenyl-phenylether	16.280	248	1289	0.435	ng	98
22) Hexachlorobenzene	16.391	284	1368	0.382	ng	98
23) Atrazine	16.553	200	1270	0.534	ng	97
24) Pentachlorophenol	16.739	266	1413	0.865	ng	99
25) Phenanthrene	17.124	178	7035	0.495	ng	99
26) Anthracene	17.210	178	6203	0.484	ng	100
28) Fluoranthene	19.150	202	8585	0.538	ng	# 96
30) Pyrene	19.513	202	9105	0.412	ng	99
32) Benzo(a)anthracene	21.259	228	7461	0.475	ng	98
33) Chrysene	21.313	228	8472	0.494	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	6683	0.597	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.788	276	6976	0.483	ng	99
37) Benzo(b)fluoranthene	22.844	252	7341	0.505	ng	95
38) Benzo(k)fluoranthene	22.888	252	7418	0.486	ng	93
39) Benzo(a)pyrene	23.423	252	6357	0.519	ng	91
40) Dibenzo(a,h)anthracene	25.803	278	5192	0.462	ng	93
41) Benzo(g,h,i)perylene	26.475	276	5470	0.426	ng	98

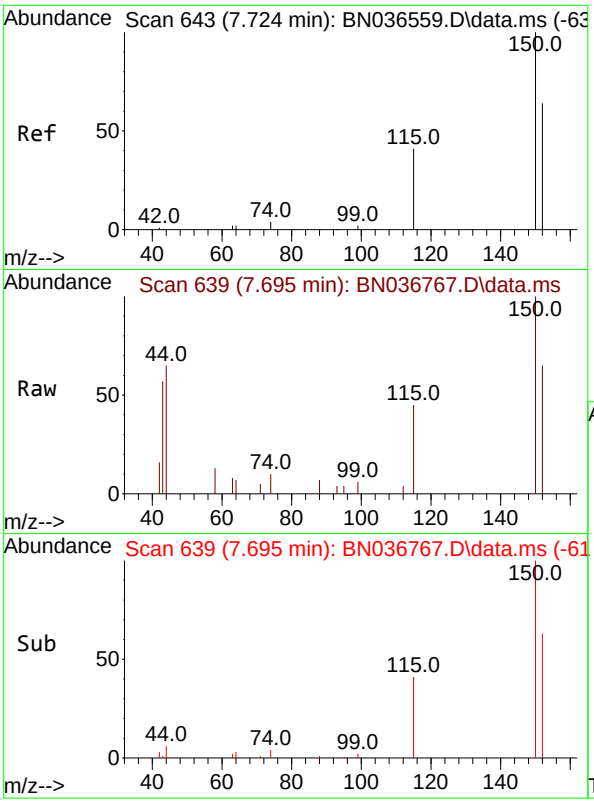
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036767.D
Acq On : 28 Mar 2025 10:58
Operator : RC/JU
Sample : Q1608-13MSD
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Quant Time: Mar 28 11:32:03 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



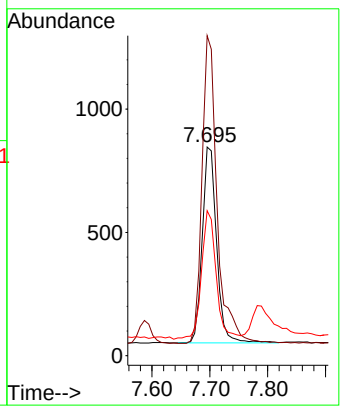


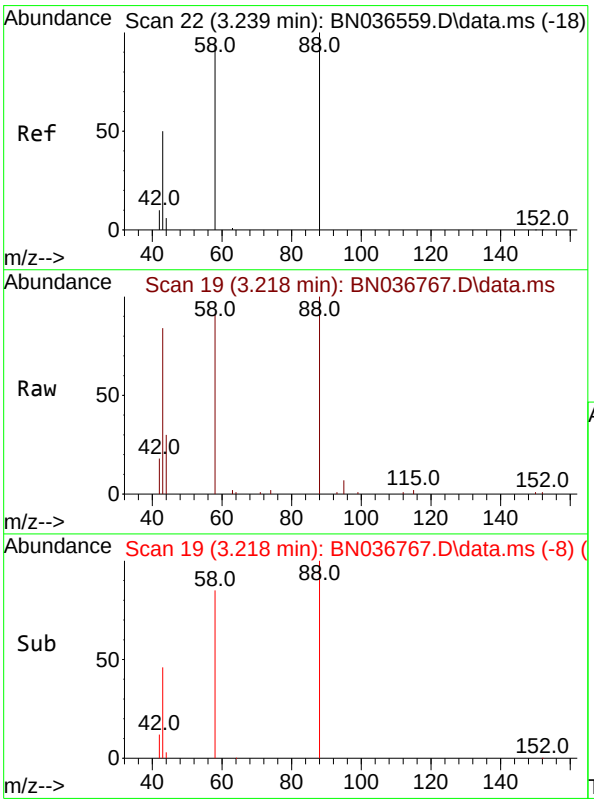
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:152 Resp: 1372

Ion	Ratio	Lower	Upper
152	100		
150	153.4	123.7	185.5
115	69.5	54.3	81.5

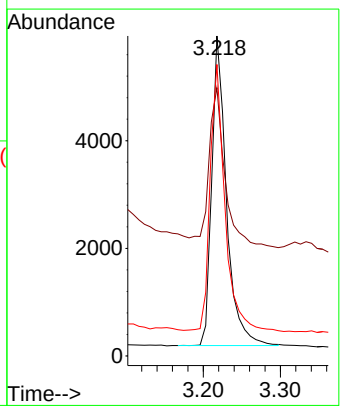


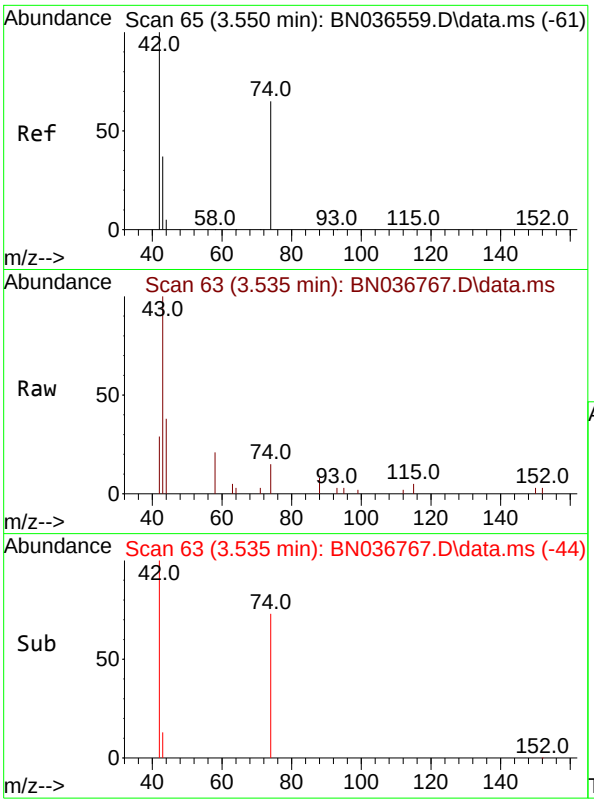


#2
1,4-Dioxane
Concen: 4.984 ng
RT: 3.218 min Scan# 19
Delta R.T. -0.021 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion: 88 Resp: 7586

Ion	Ratio	Lower	Upper
88	100		
43	57.7	37.8	56.8#
58	86.3	67.4	101.2



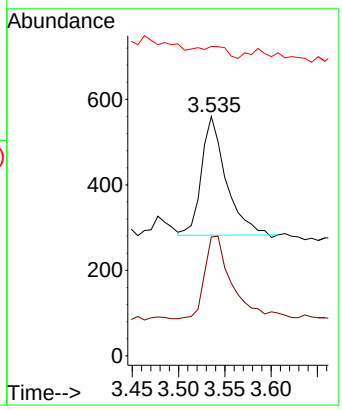


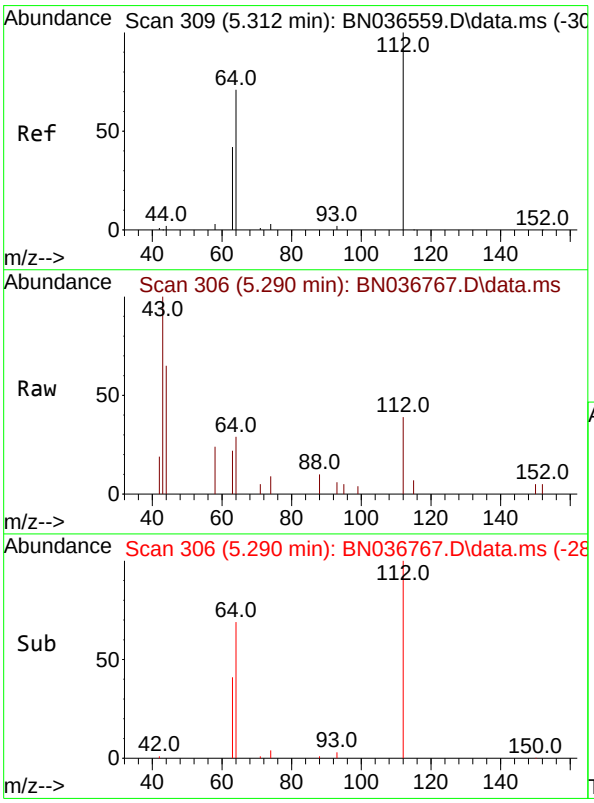
#3
n-Nitrosodimethylamine
Concen: 0.166 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion: 42 Resp: 511

Ion	Ratio	Lower	Upper
42	100		
74	77.9	60.6	90.8
44	0.0	6.3	9.5#

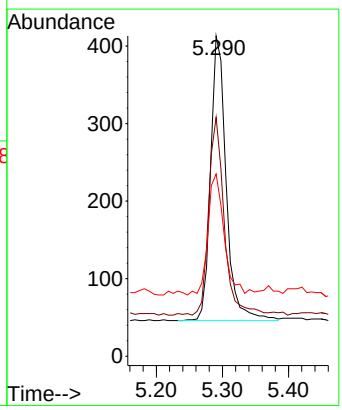


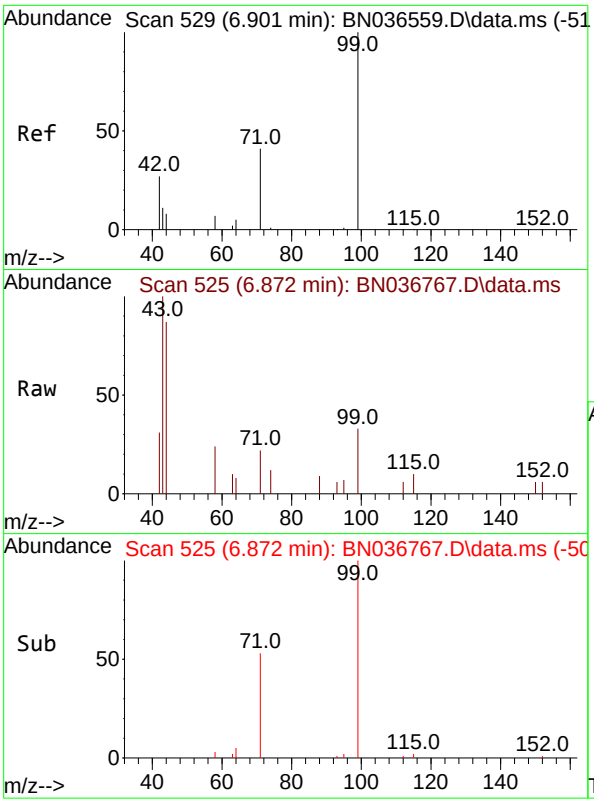


#4
2-Fluorophenol
Concen: 0.187 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:112 Resp: 599

Ion	Ratio	Lower	Upper
112	100		
64	68.3	53.1	79.7
63	45.4	31.8	47.8



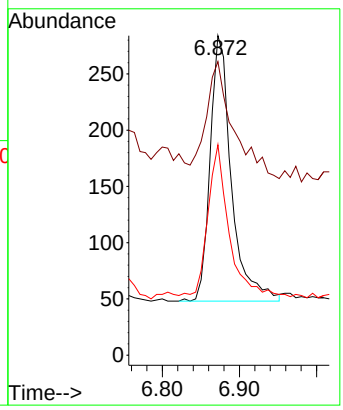


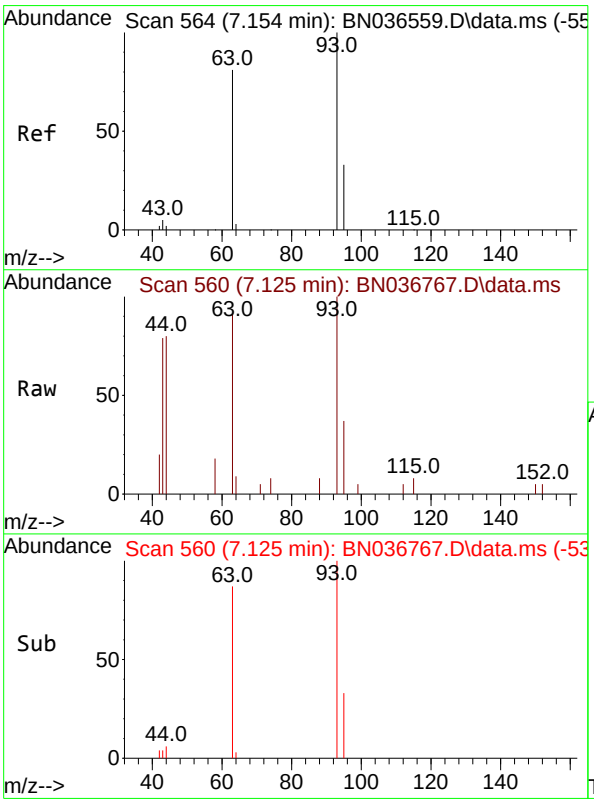
#5
Phenol-d6
Concen: 0.114 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion: 99 Resp: 451

Ion	Ratio	Lower	Upper
99	100		
42	57.0	26.5	39.7#
71	57.2	34.1	51.1#

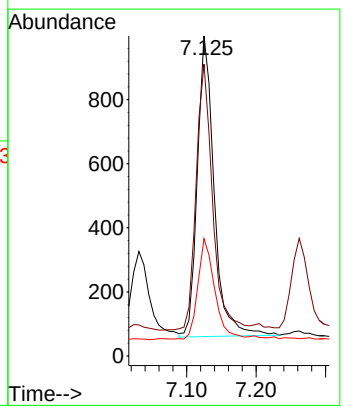


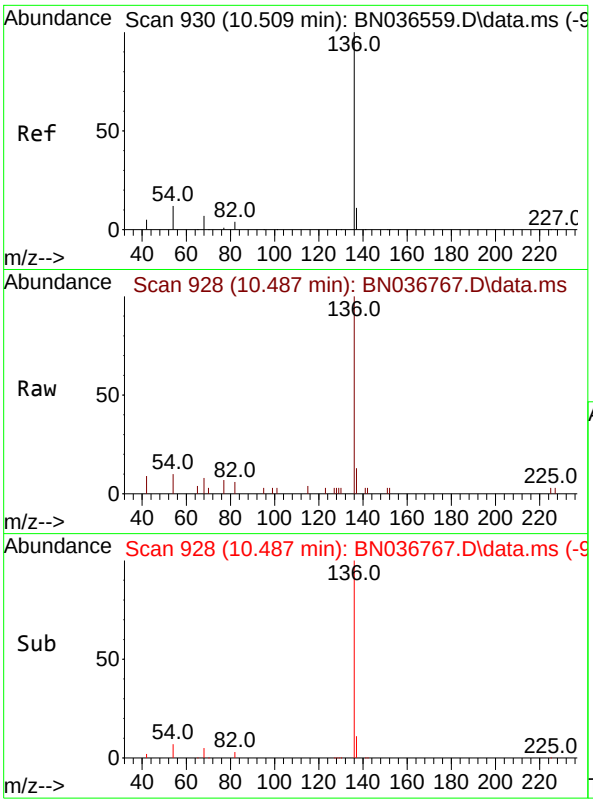


#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion: 93 Resp: 1581

Ion	Ratio	Lower	Upper
93	100		
63	86.4	67.7	101.5
95	33.2	25.6	38.4



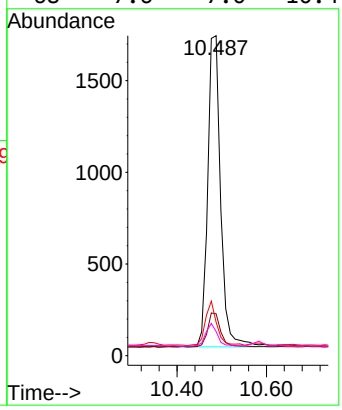


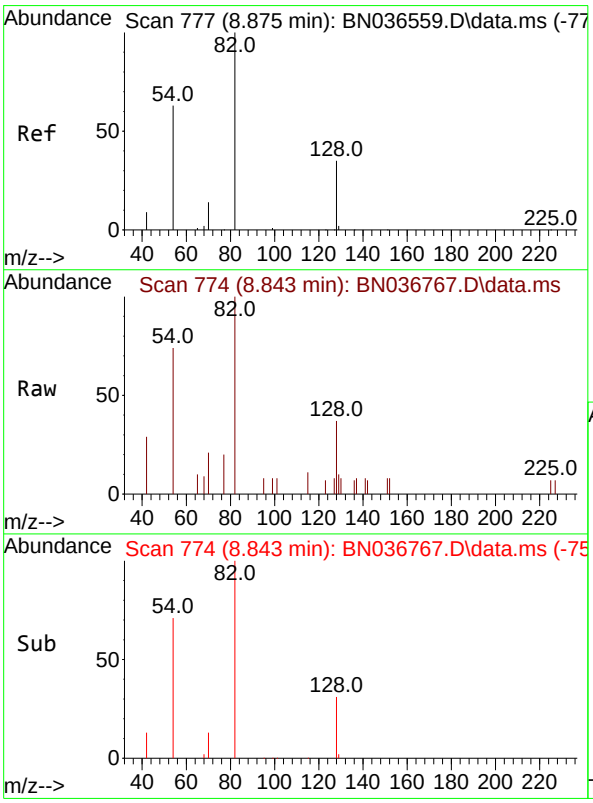
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:136 Resp: 3404

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	10.5	11.5	17.3#
68	7.6	7.0	10.4

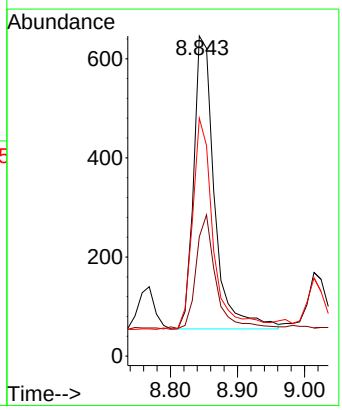


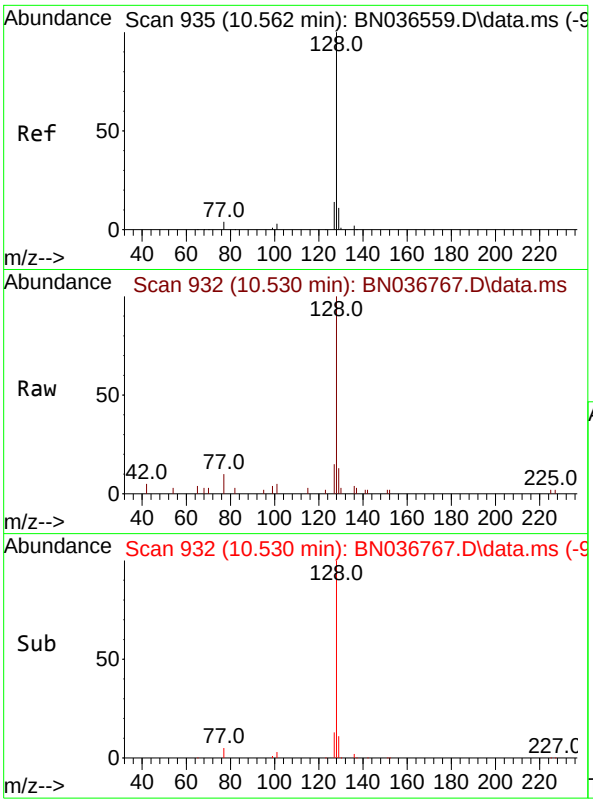


#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion: 82 Resp: 1279

Ion	Ratio	Lower	Upper
82	100		
128	37.3	30.6	45.8
54	74.3	52.2	78.4



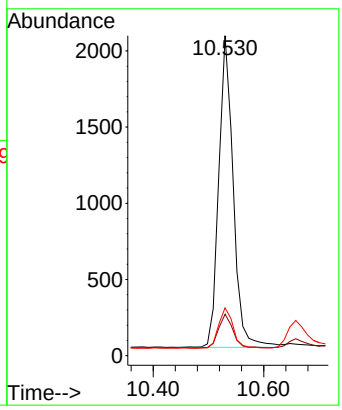


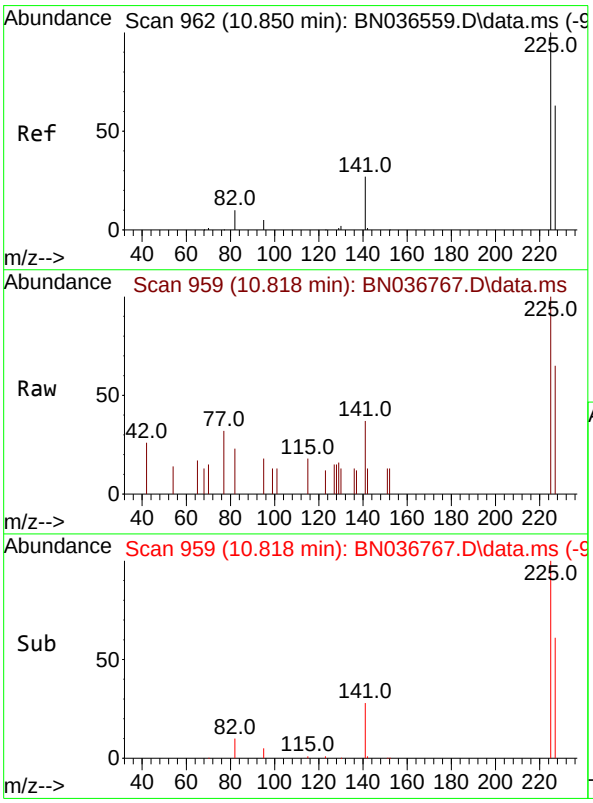
#9
Naphthalene
Concen: 0.370 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:128 Resp: 3708

Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.8	14.6
127	15.0	11.8	17.8

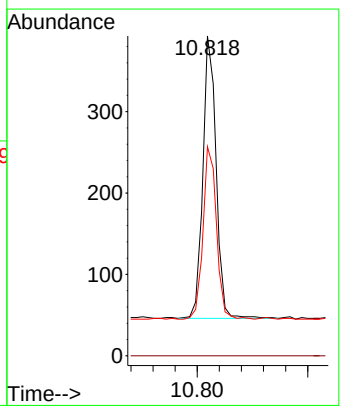


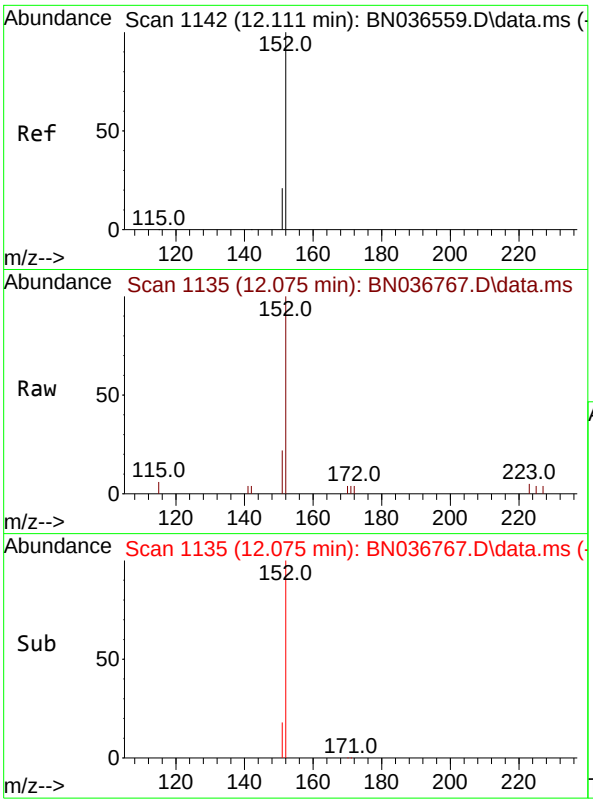


#10
Hexachlorobutadiene
Concen: 0.247 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:225 Resp: 581

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.1	51.8	77.8



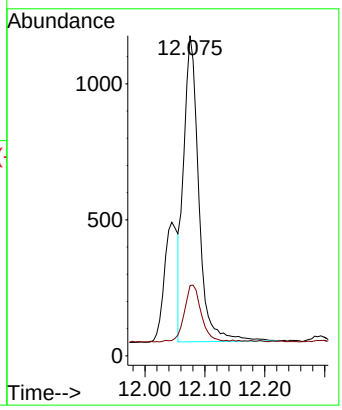


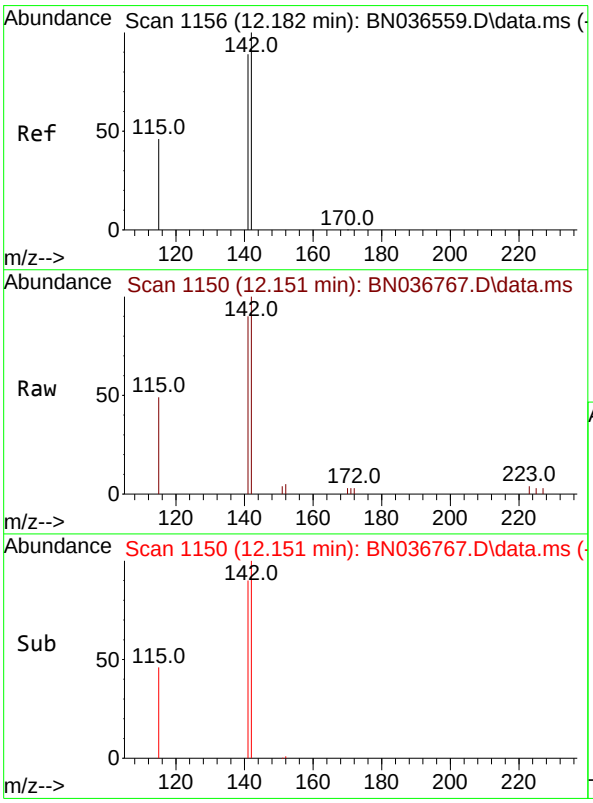
#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.036 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:152 Resp: 1977

Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.0	25.6

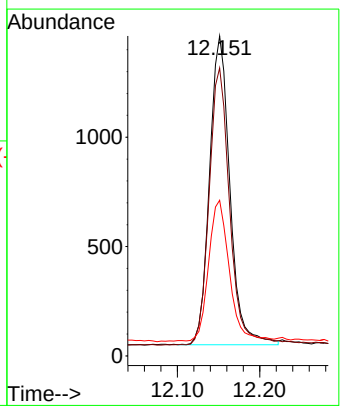


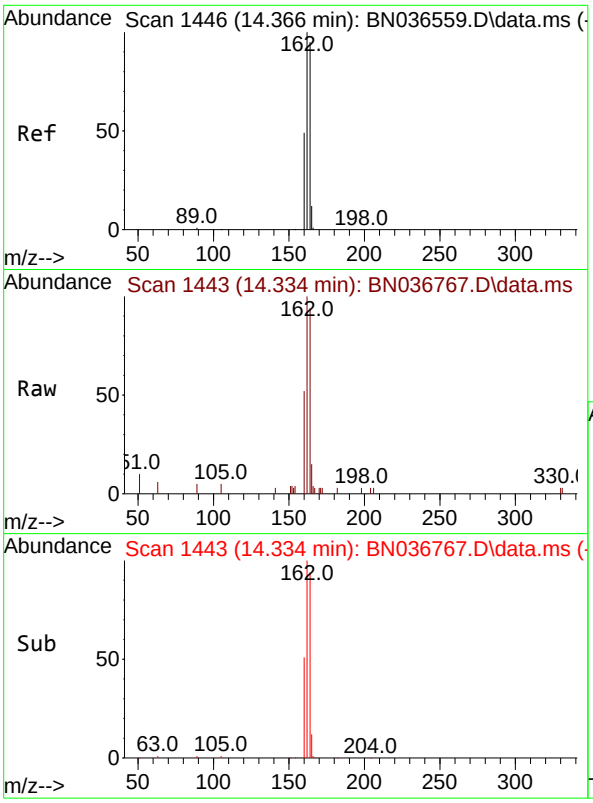


#12
2-Methylnaphthalene
Concen: 0.381 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:142 Resp: 2426

Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.7	107.5
115	48.7	38.3	57.5



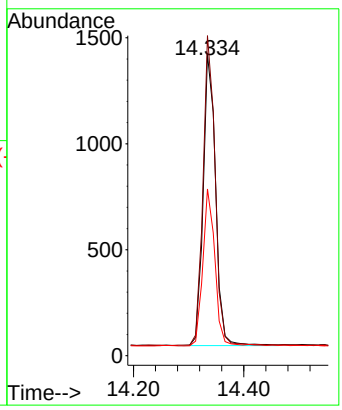


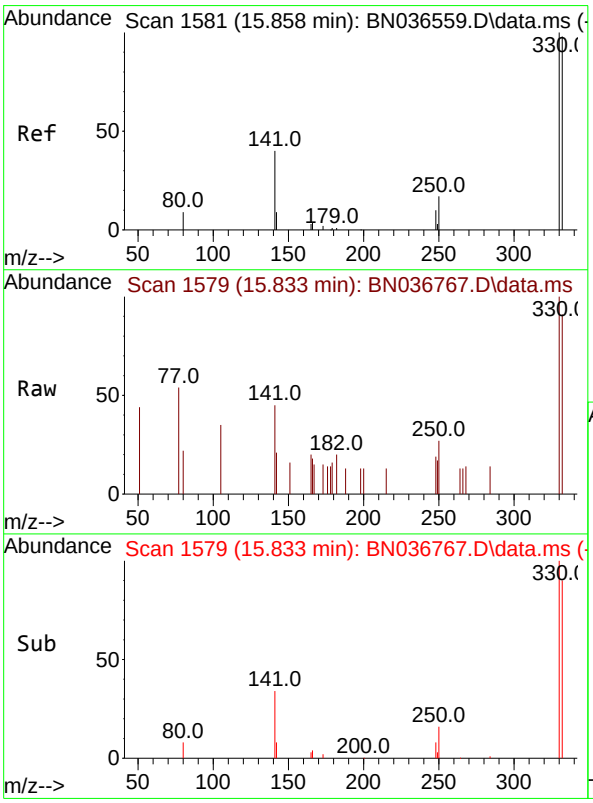
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:164 Resp: 2163

Ion	Ratio	Lower	Upper
164	100		
162	106.2	84.2	126.2
160	55.3	42.2	63.2

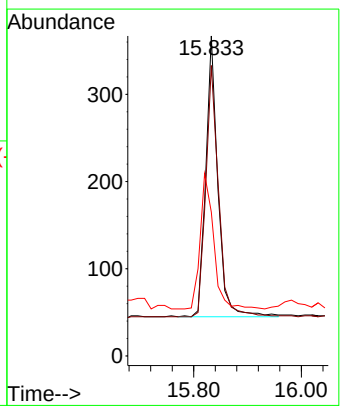


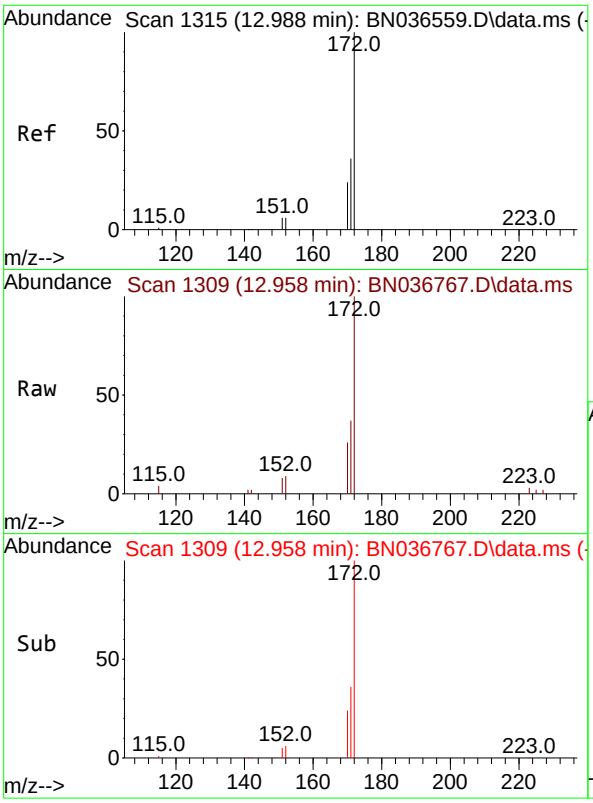


#14
2,4,6-Tribromophenol
Concen: 0.512 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:330 Resp: 503

Ion	Ratio	Lower	Upper
330	100		
332	94.2	75.2	112.8
141	53.5	43.4	65.2



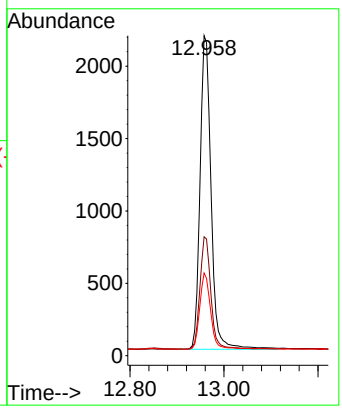


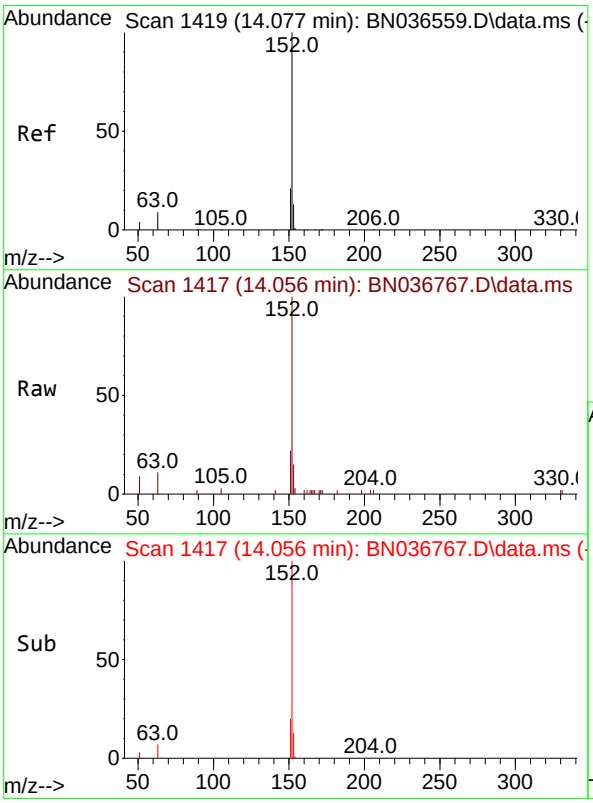
#15
2-Fluorobiphenyl
Concen: 0.374 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:172 Resp: 4700

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.9	20.2	30.4

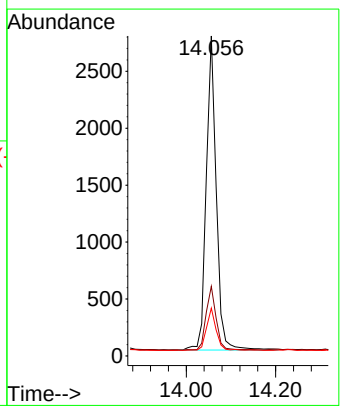


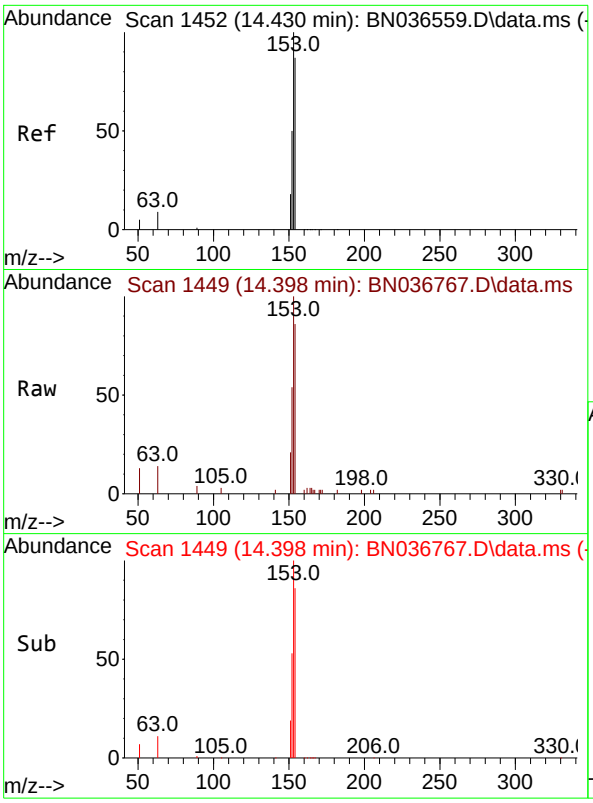


#16
Acenaphthylene
Concen: 0.418 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:152 Resp: 4270

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.1	10.6	15.8



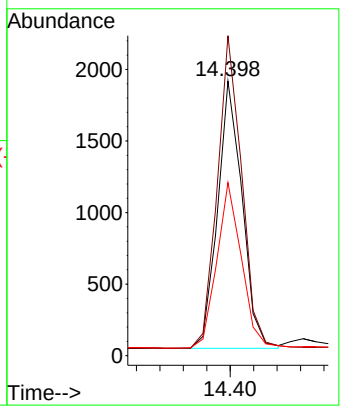


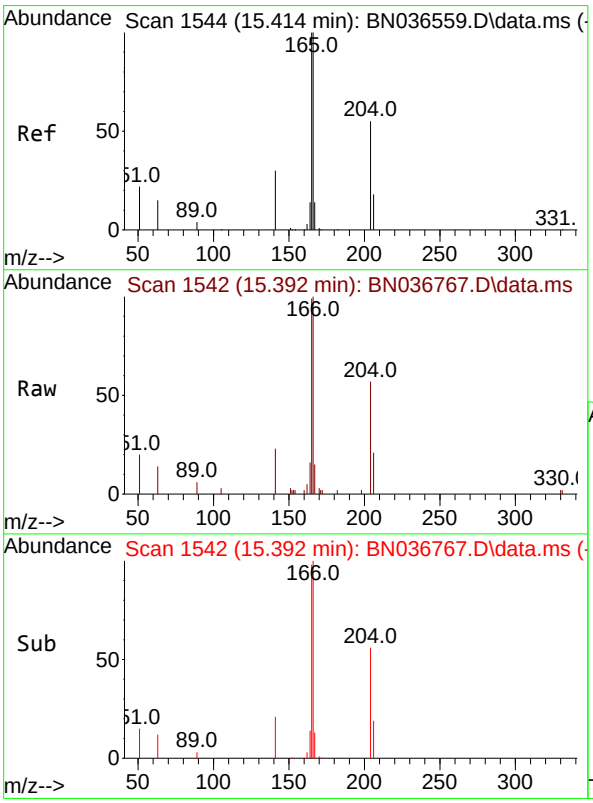
#17
Acenaphthene
Concen: 0.405 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:154 Resp: 2708

Ion	Ratio	Lower	Upper
154	100		
153	117.7	94.1	141.1
152	63.2	49.8	74.6

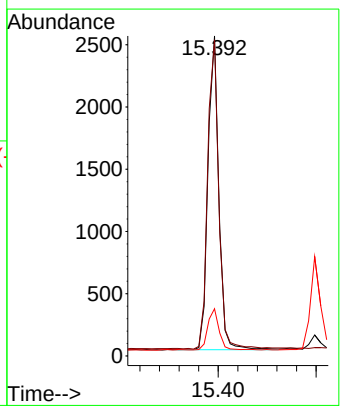


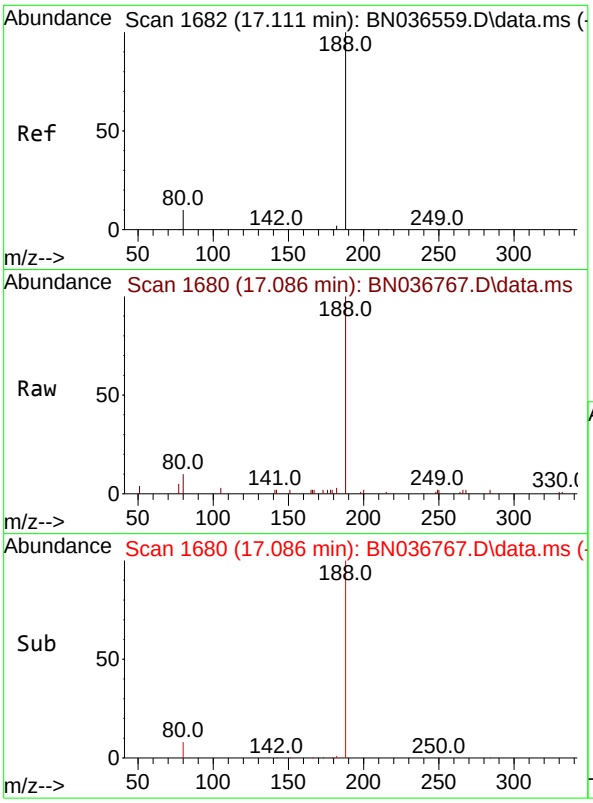


#18
Fluorene
Concen: 0.431 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:166 Resp: 3898

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.4	10.6	15.8



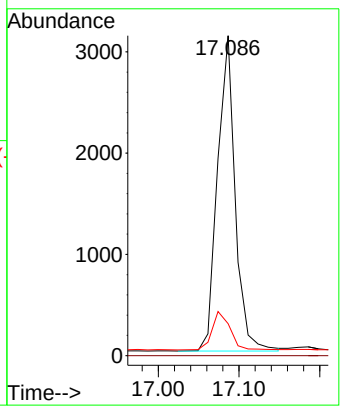


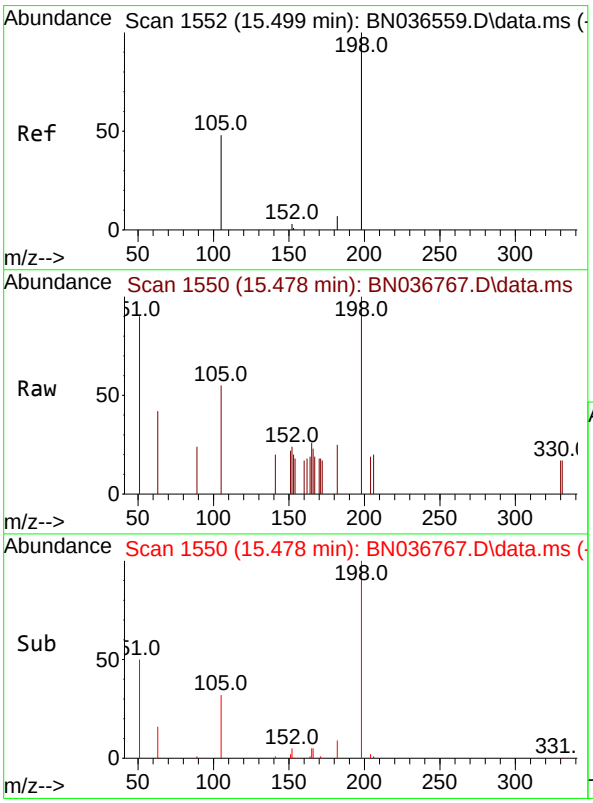
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:188 Resp: 4733

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.0	8.8	13.2

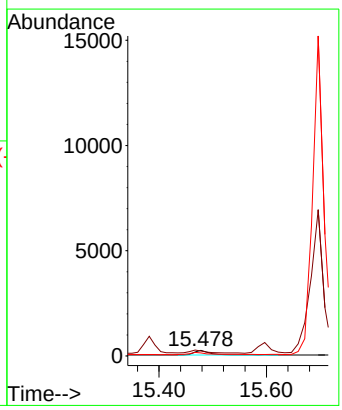


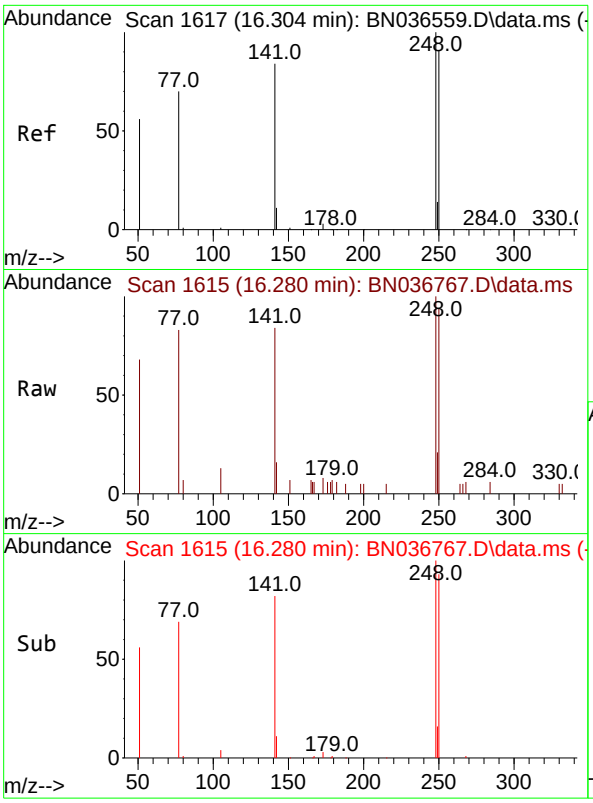


#20
4,6-Dinitro-2-methylphenol
Concen: 0.541 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:198 Resp: 479

Ion	Ratio	Lower	Upper
198	100		
51	90.2	107.9	161.9#
105	55.1	56.2	84.2#



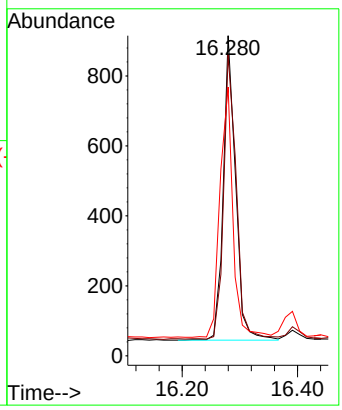


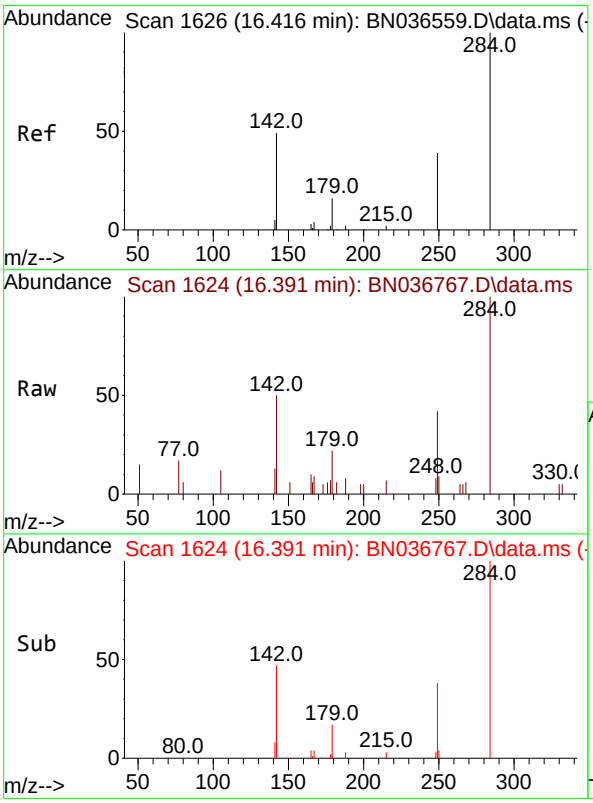
#21
4-Bromophenyl-phenylether
Concen: 0.435 ng
RT: 16.280 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:248 Resp: 1289

Ion	Ratio	Lower	Upper
248	100		
250	94.0	73.0	109.6
141	83.9	68.6	103.0

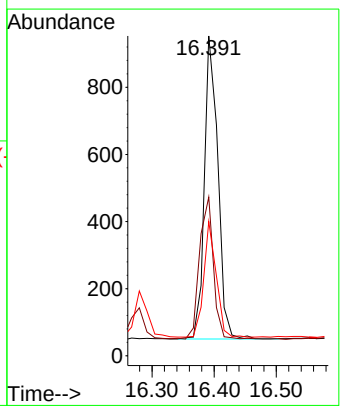


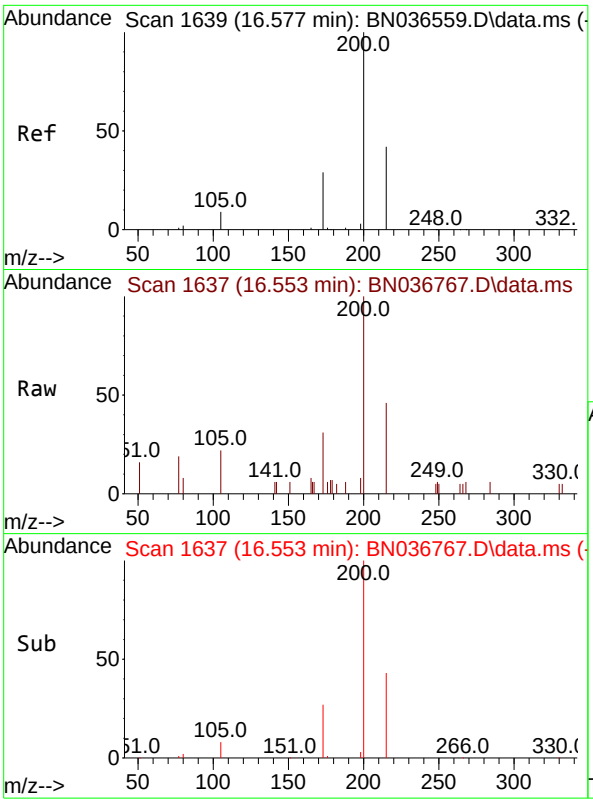


#22
Hexachlorobenzene
Concen: 0.382 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:284 Resp: 1368

Ion	Ratio	Lower	Upper
284	100		
142	48.3	37.0	55.4
249	34.9	28.1	42.1



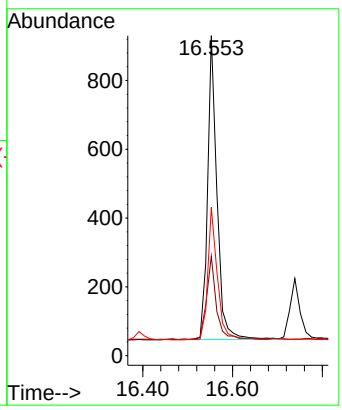


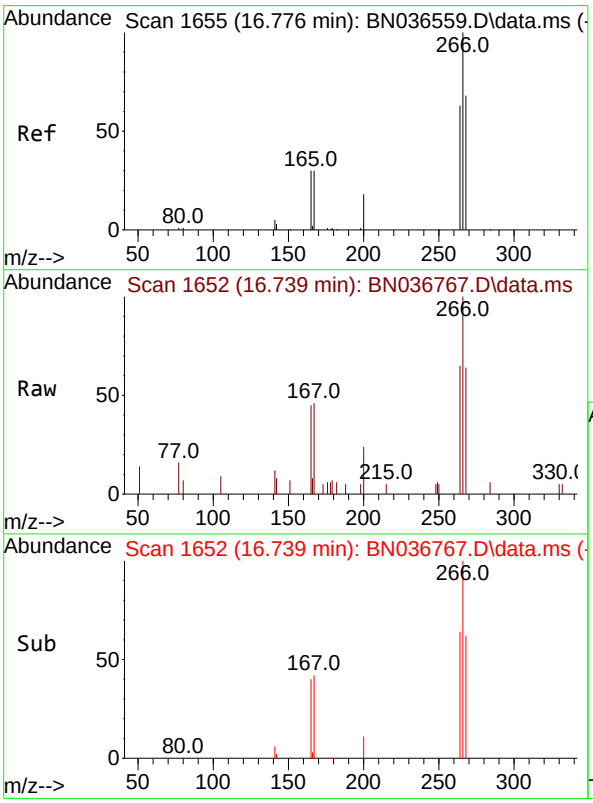
#23
Atrazine
Concen: 0.534 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:200 Resp: 1270

Ion	Ratio	Lower	Upper
200	100		
173	31.1	27.3	40.9
215	46.3	36.8	55.2

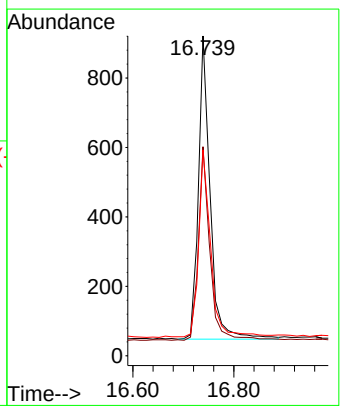


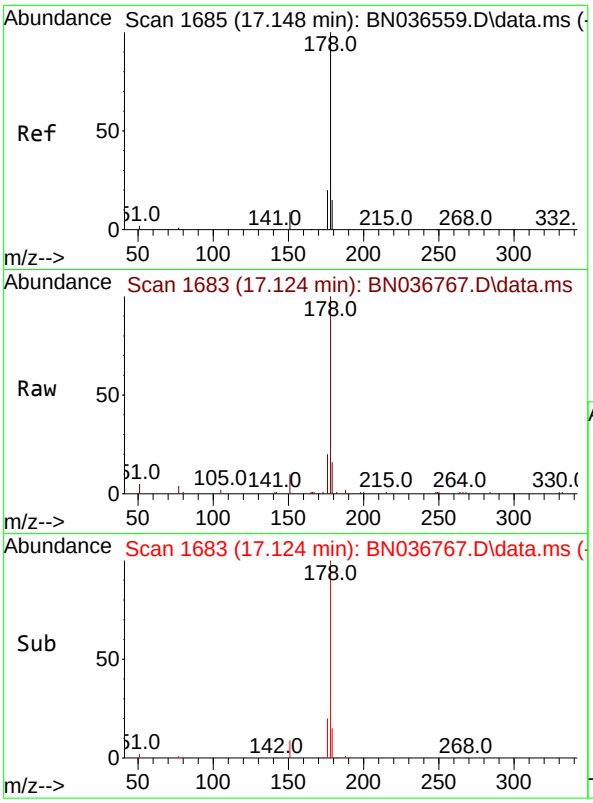


#24
Pentachlorophenol
Concen: 0.865 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:266 Resp: 1413

Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.6	74.4
268	62.2	50.9	76.3



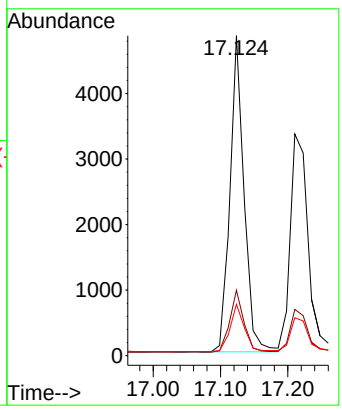


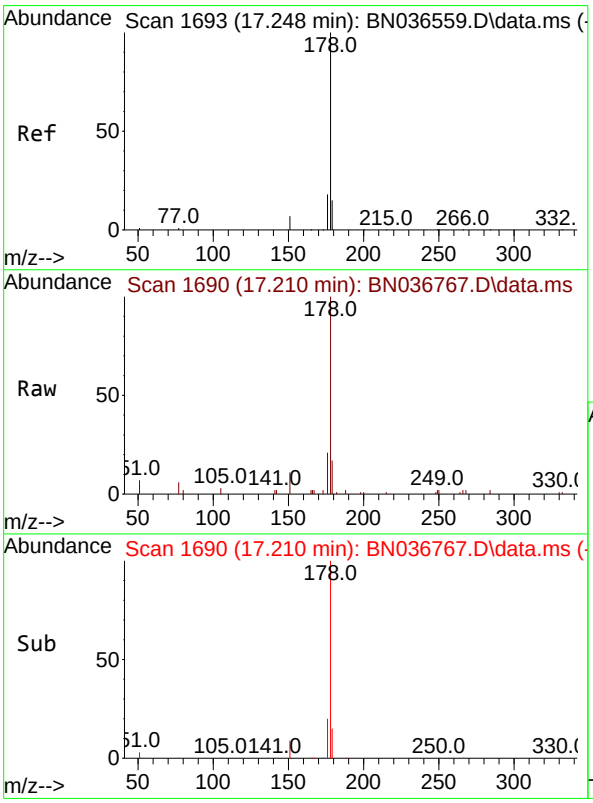
#25
Phenanthrene
Concen: 0.495 ng
RT: 17.124 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:178 Resp: 7035

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

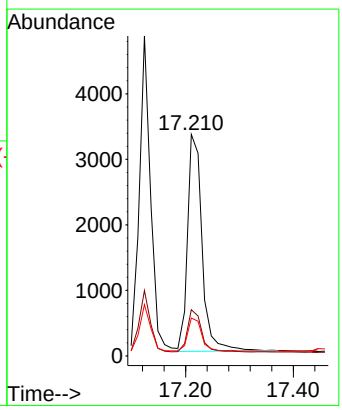


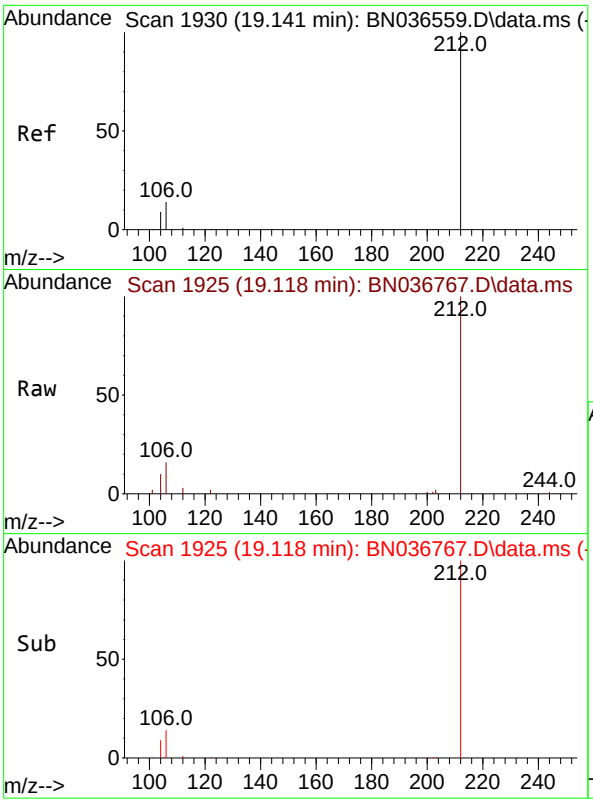


#26
Anthracene
Concen: 0.484 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:178 Resp: 6203

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.5	12.6	18.8



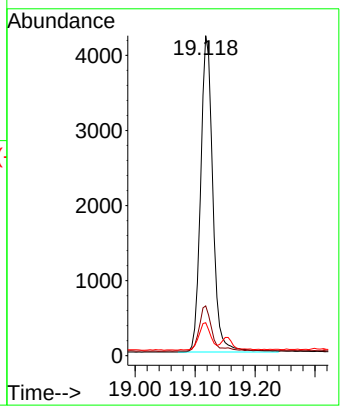


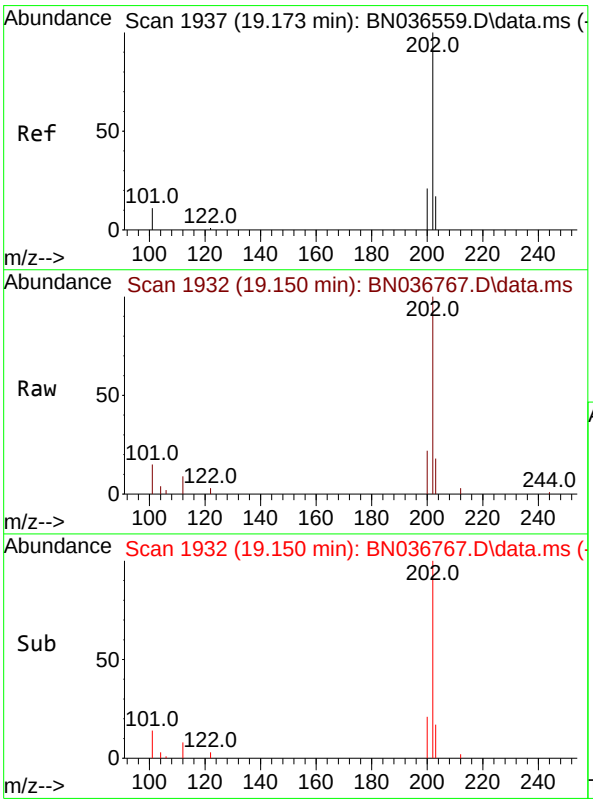
#27
Fluoranthene-d10
Concen: 0.492 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:212 Resp: 5965

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	8.4	7.3	10.9

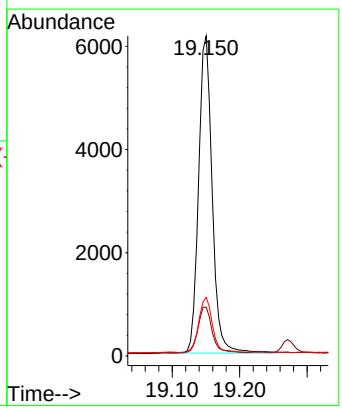


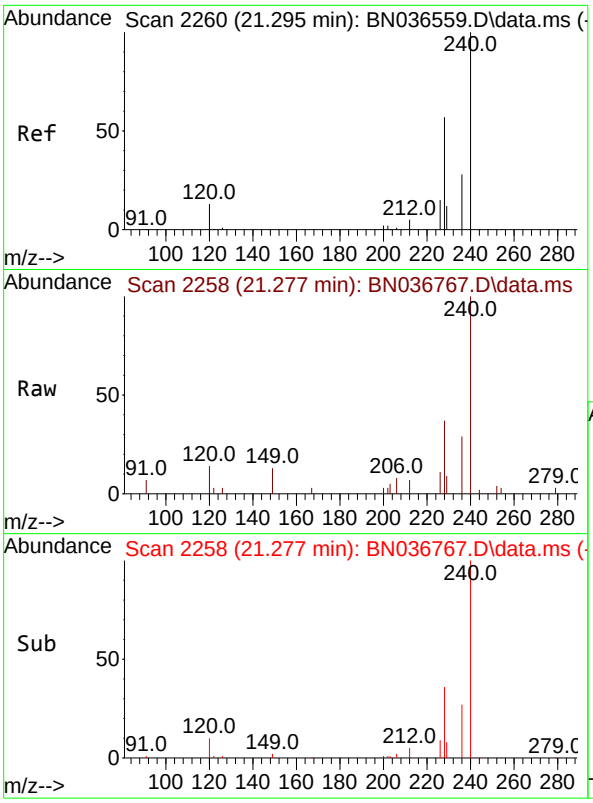


#28
Fluoranthene
Concen: 0.538 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:202 Resp: 8585

Ion	Ratio	Lower	Upper
202	100		
101	15.4	9.4	14.0#
203	17.2	13.5	20.3



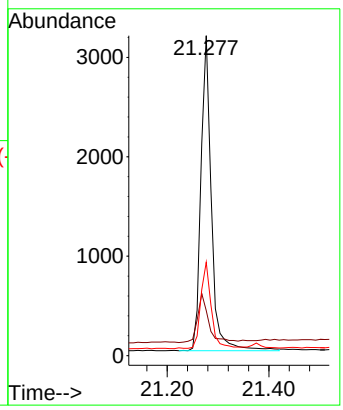


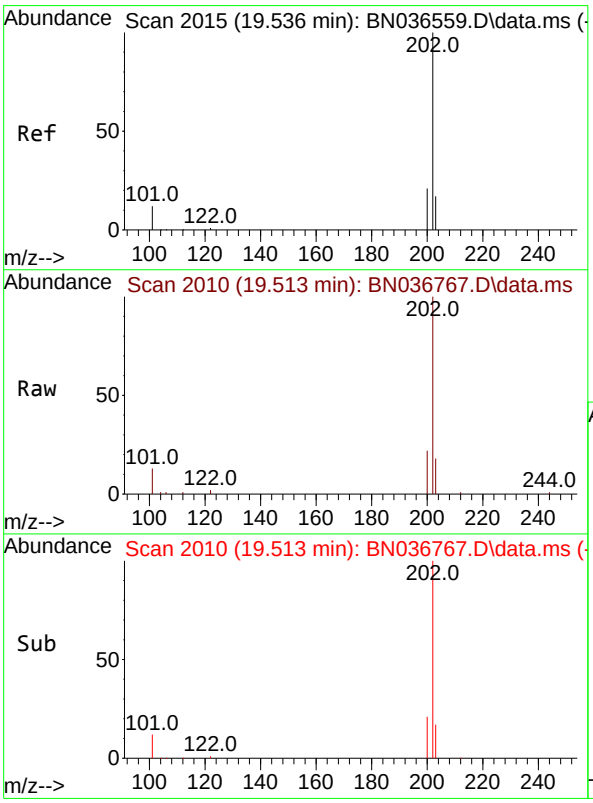
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:240 Resp: 4518

Ion	Ratio	Lower	Upper
240	100		
120	14.1	14.6	22.0#
236	29.2	24.1	36.1

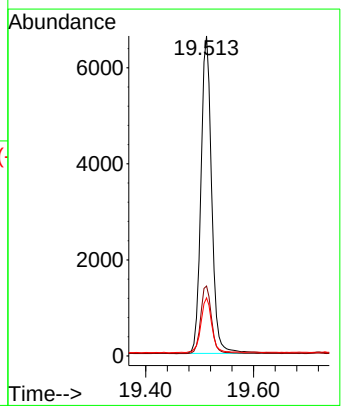


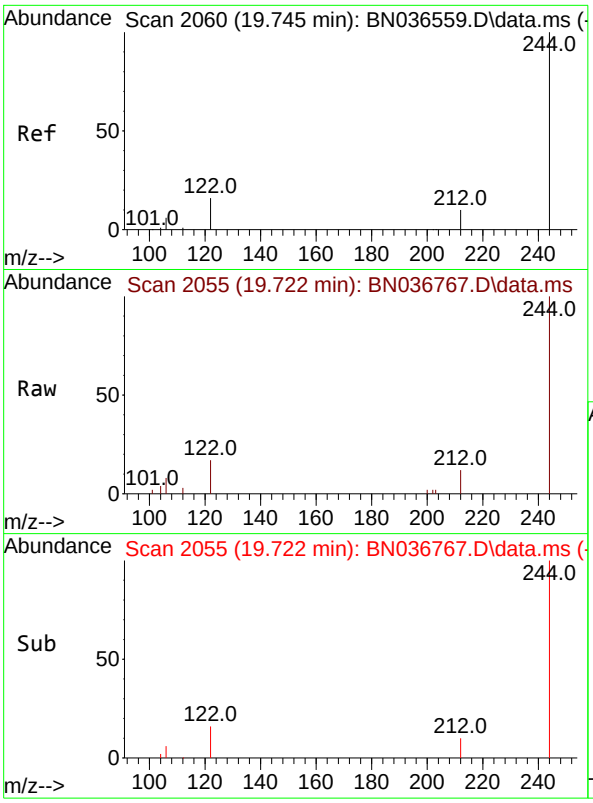


#30
Pyrene
Concen: 0.412 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:202 Resp: 9105

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.1	25.7
203	17.7	14.1	21.1



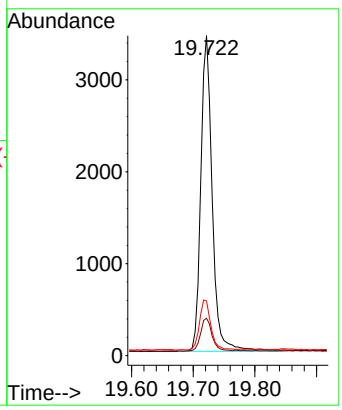


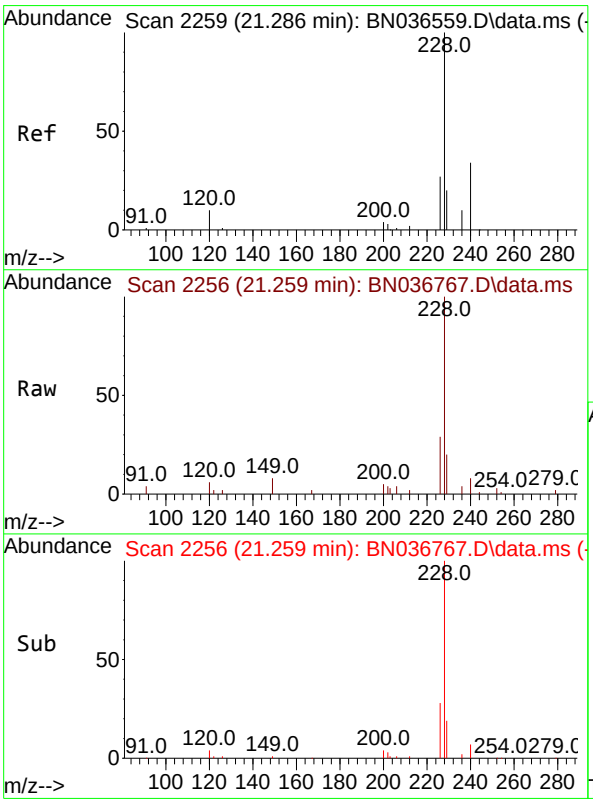
#31
Terphenyl-d14
Concen: 0.408 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:244 Resp: 4416

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	17.2	13.9	20.9

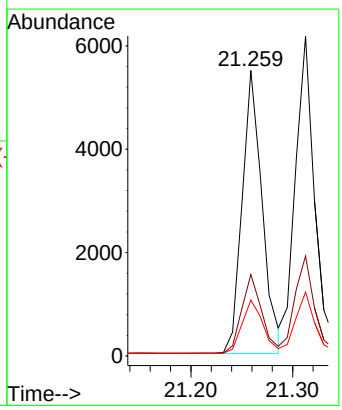


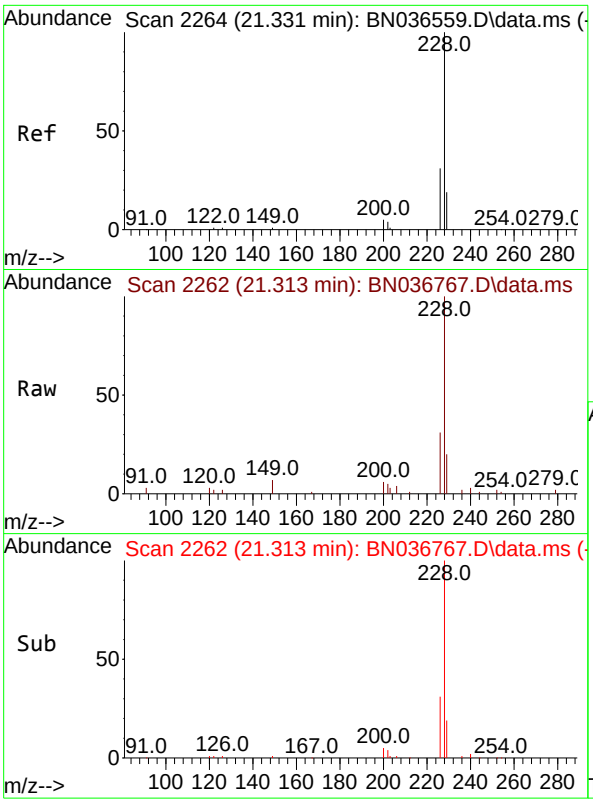


#32
Benzo(a)anthracene
Concen: 0.475 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:228 Resp: 7461

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	19.5	16.6	25.0



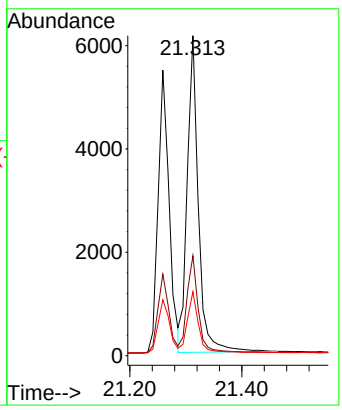


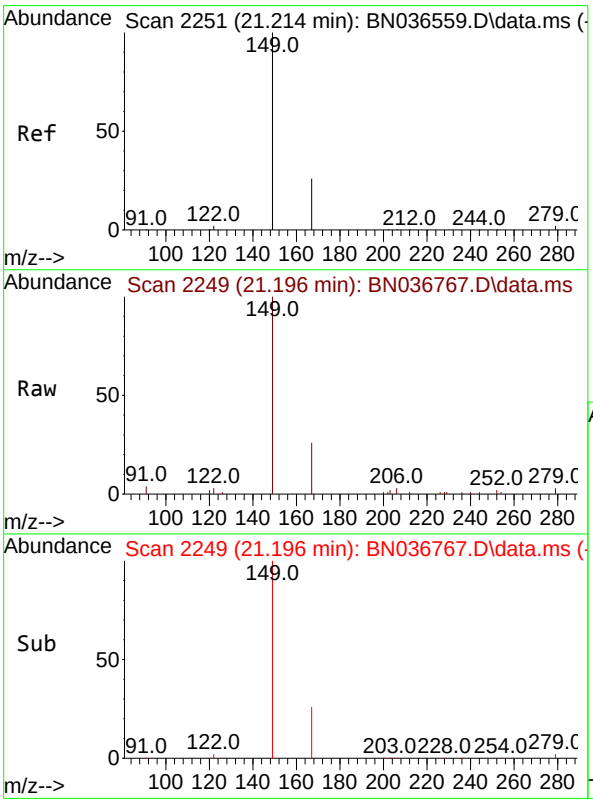
#33
Chrysene
Concen: 0.494 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:228 Resp: 8472

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.3	37.9
229	20.0	15.8	23.8

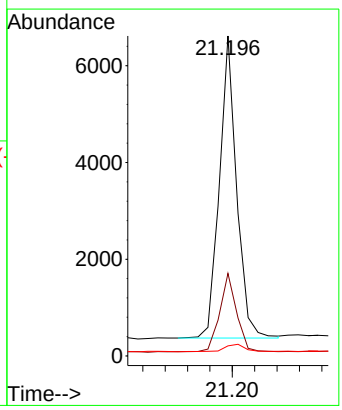


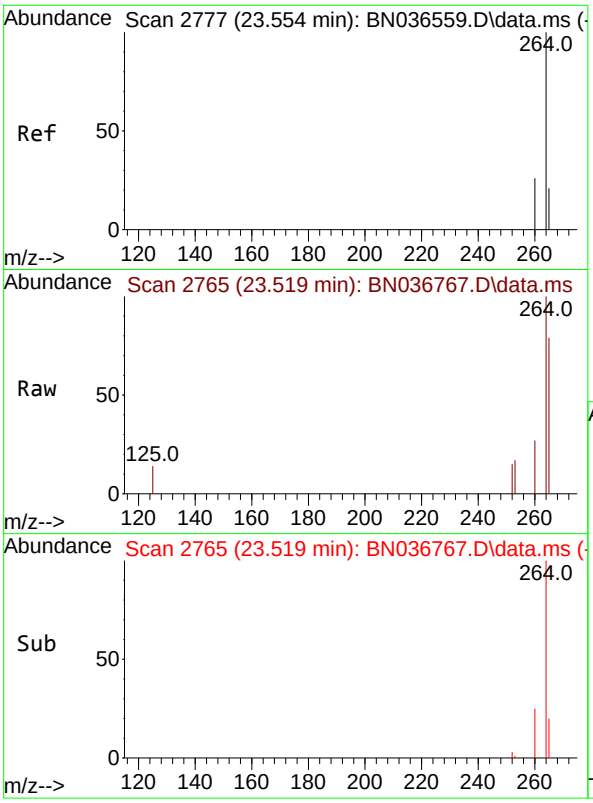


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.597 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:149 Resp: 6683

Ion	Ratio	Lower	Upper
149	100		
167	25.1	20.7	31.1
279	2.9	3.6	5.4#



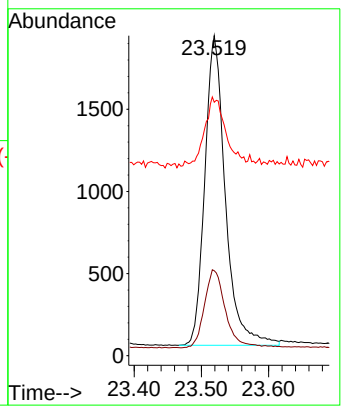


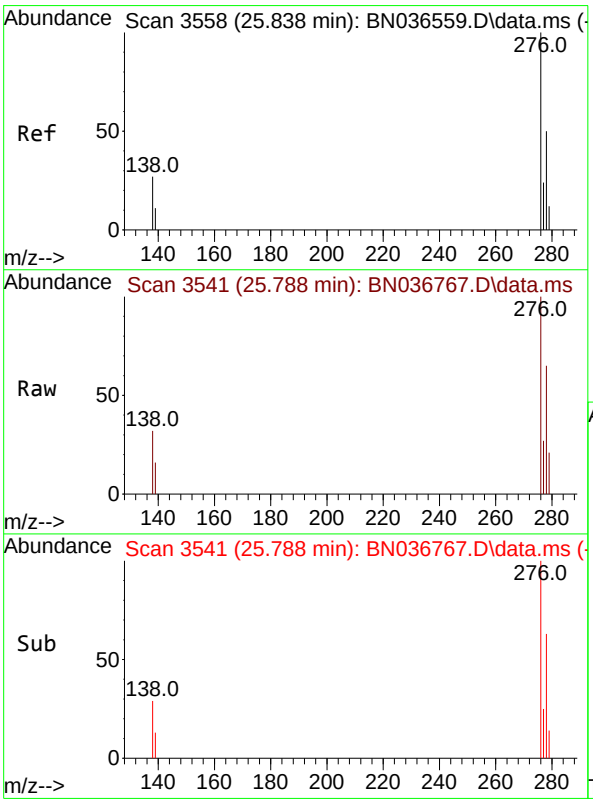
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:264 Resp: 3998

Ion	Ratio	Lower	Upper
264	100		
260	26.6	22.6	33.8
265	79.2	88.1	132.1#

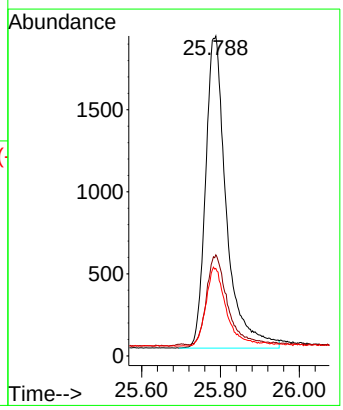


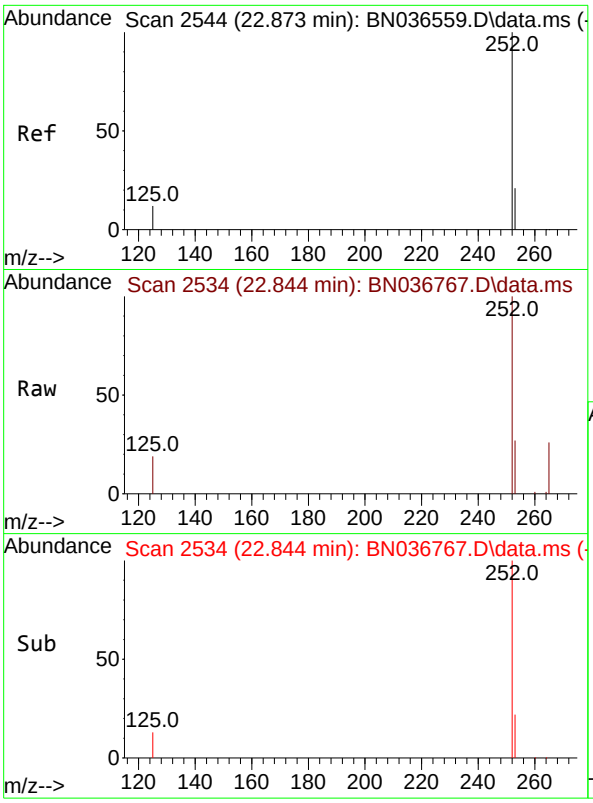


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.483 ng
RT: 25.788 min Scan# 3541
Delta R.T. -0.050 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:276 Resp: 6976

Ion	Ratio	Lower	Upper
276	100		
138	29.0	23.4	35.2
277	24.6	20.0	30.0



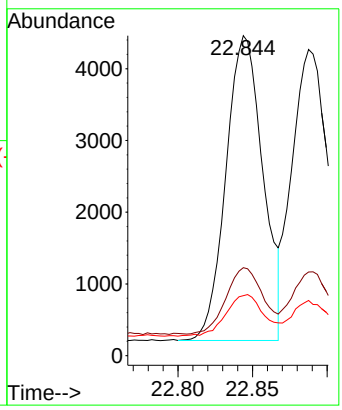


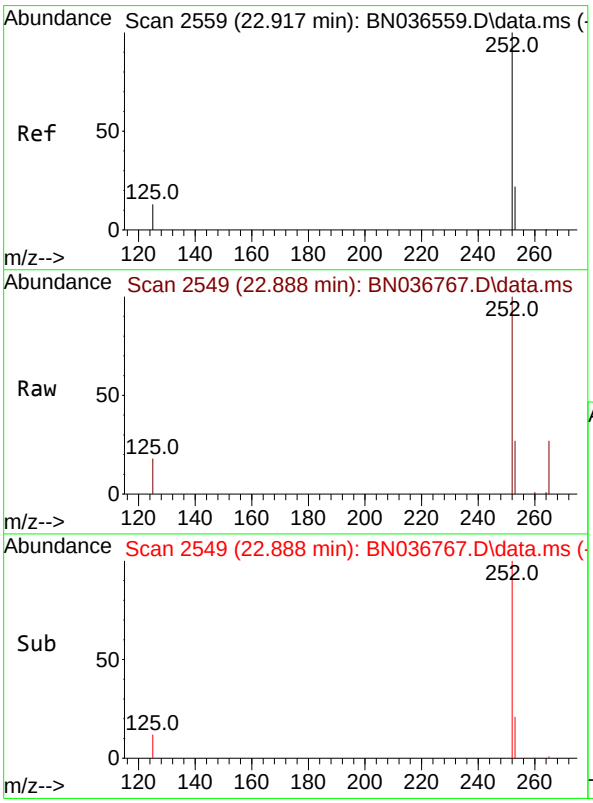
#37
Benzo(b)fluoranthene
Concen: 0.505 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:252 Resp: 7341

Ion	Ratio	Lower	Upper
252	100		
253	27.5	23.9	35.9
125	18.7	17.4	26.2

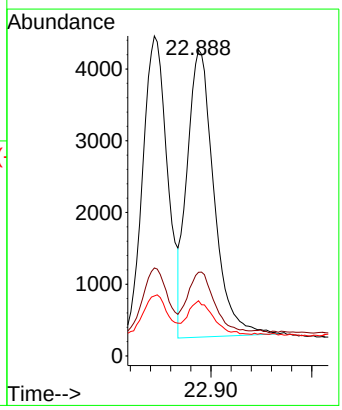


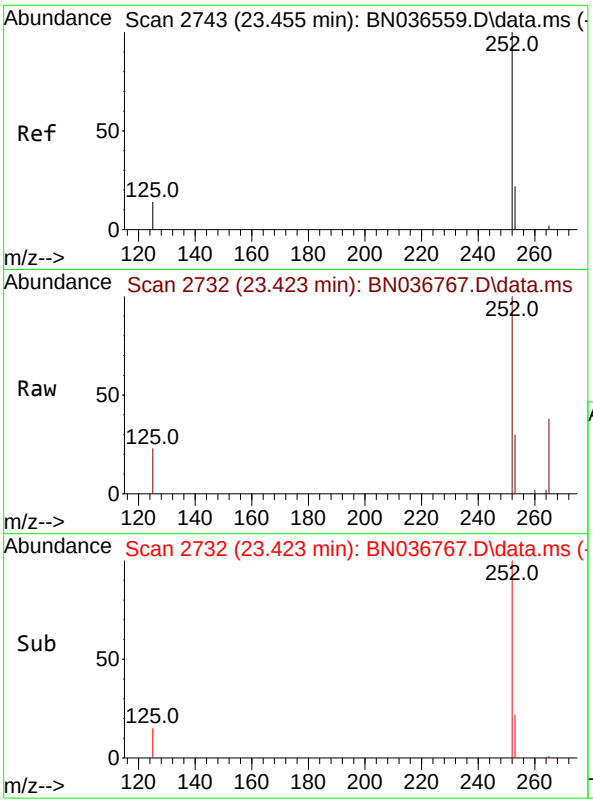


#38
Benzo(k)fluoranthene
Concen: 0.486 ng
RT: 22.888 min Scan# 2549
Delta R.T. -0.029 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:252 Resp: 7418

Ion	Ratio	Lower	Upper
252	100		
253	27.3	24.6	36.8
125	18.0	17.8	26.8



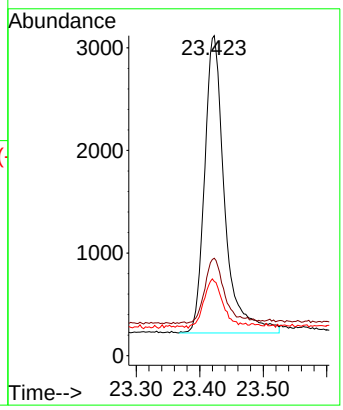


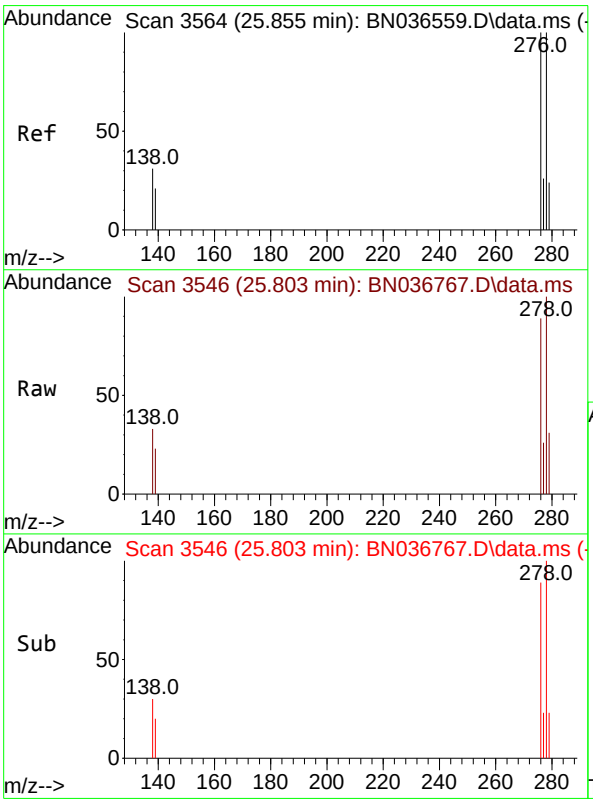
#39
Benzo(a)pyrene
Concen: 0.519 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:252 Resp: 6357

Ion	Ratio	Lower	Upper
252	100		
253	30.4	27.8	41.8
125	23.2	22.7	34.1

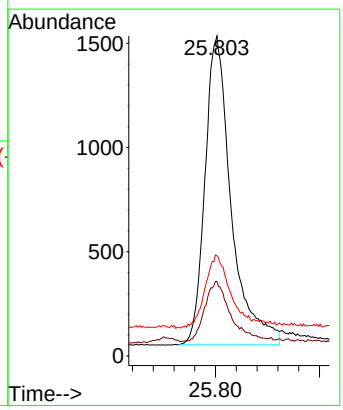


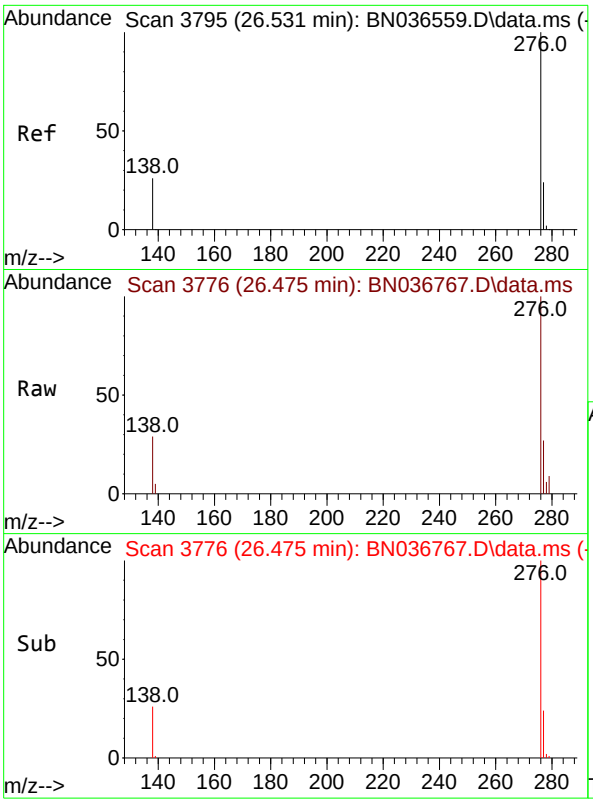


#40
Dibenzo(a,h)anthracene
Concen: 0.462 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.053 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Tgt Ion:278 Resp: 5192

Ion	Ratio	Lower	Upper
278	100		
139	23.3	20.8	31.2
279	31.3	28.8	43.2



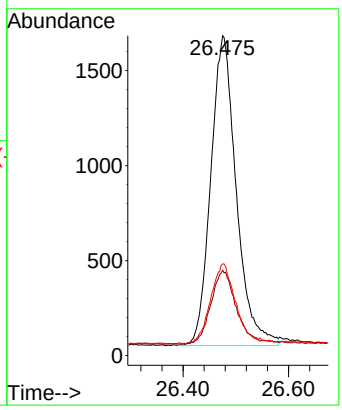


#41
Benzo(g,h,i)perylene
Concen: 0.426 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.056 min
Lab File: BN036767.D
Acq: 28 Mar 2025 10:58

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MSD

Tgt Ion:276 Resp: 5470

Ion	Ratio	Lower	Upper
276	100		
277	26.7	22.2	33.4
138	28.7	24.1	36.1



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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

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Manual Integration Report

Sequence:	bn032725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036736.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:44:03 AM	Jagrut	4/1/2025 3:49:26 PM	Peak Integrated by Software
SSTDCCC0.4	BN036738.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:44:53 AM	Jagrut	4/1/2025 3:49:29 PM	Peak Integrated by Software
Q1608-03	BN036745.D	Bis(2-ethylhexyl)phthalate	anahy	3/28/2025 11:47:19 AM	Jagrut	4/1/2025 3:49:31 PM	Peak Integrated by Software
Q1608-20	BN036753.D	Nitrobenzene-d5	anahy	3/28/2025 11:49:20 AM	Jagrut	4/1/2025 3:49:33 PM	Peak Integrated by Software
PB167232BS	BN036754.D	2-Methylnaphthalene-d10	anahy	3/28/2025 11:50:08 AM	Jagrut	4/1/2025 3:49:36 PM	Peak Integrated by Software
SSTDCCC0.4	BN036755.D	Benzo(g,h,i)perylene	anahy	3/28/2025 11:51:02 AM	Jagrut	4/1/2025 3:49:38 PM	Peak Integrated by Software
SSTDCCC0.4	BN036755.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:51:02 AM	Jagrut	4/1/2025 3:49:38 PM	Peak Integrated by Software
SSTDCCC0.4	BN036757.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:57:23 AM	Jagrut	4/1/2025 3:49:40 PM	Peak Integrated by Software
Q1608-25	BN036763.D	Bis(2-ethylhexyl)phthalate	anahy	3/28/2025 11:58:01 AM	Jagrut	4/1/2025 3:49:43 PM	Peak Integrated by Software
Q1608-12MS	BN036766.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:58:43 AM	Jagrut	4/1/2025 3:50:02 PM	Peak Integrated by Software
SSTDCCC0.4	BN036771.D	Benzo(k)fluoranthene	anahy	3/31/2025 10:10:02 AM	Jagrut	4/1/2025 3:49:52 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN032825	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1608-28	BN036782.D	Bis(2-ethylhexyl)phthalate	anahy	3/31/2025 11:26:01 AM	Jagrut	3/31/2025 2:10:15 PM	Peak Integrated by Software
PB167251BS	BN036787.D	2-Methylnaphthalene-d10	anahy	3/31/2025 11:36:21 AM	Jagrut	3/31/2025 2:10:18 PM	Peak Integrated by Software
PB167251BS	BN036787.D	Benzo(k)fluoranthene	anahy	3/31/2025 11:36:21 AM	Jagrut	3/31/2025 2:10:18 PM	Peak Integrated by Software
PB167251BSD	BN036788.D	2-Methylnaphthalene-d10	anahy	3/31/2025 11:36:59 AM	Jagrut	3/31/2025 2:10:20 PM	Peak Integrated by Software
SSTDCCC0.4	BN036789.D	Benzo(k)fluoranthene	anahy	3/31/2025 12:00:29 PM	Jagrut	3/31/2025 2:10:24 PM	Peak Integrated by Software
SSTDCCC0.4	BN036789.D	Dibenzo(a,h)anthracene	anahy	3/31/2025 12:00:29 PM	Jagrut	3/31/2025 2:10:24 PM	Peak Integrated by Software
SSTDCCC0.4	BN036791.D	Benzo(k)fluoranthene	anahy	3/31/2025 12:01:09 PM	Jagrut	3/31/2025 2:10:27 PM	Peak Integrated by Software
SSTDCCC0.4	BN036807.D	Benzo(k)fluoranthene	anahy	3/31/2025 1:31:19 PM	Jagrut	3/31/2025 2:10:38 PM	Peak Integrated by Software
SSTDCCC0.4	BN036807.D	Dibenzo(a,h)anthracene	anahy	3/31/2025 1:31:19 PM	Jagrut	3/31/2025 2:10:38 PM	Peak Integrated by Software

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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_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 # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM		
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM		
SubDirectory	BN032725	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	BN036728.D	27 Mar 2025 09:10	RC/JU	Ok
2	SSTDCCC0.4	BN036729.D	27 Mar 2025 09:49	RC/JU	Ok
3	PB167232BL	BN036730.D	27 Mar 2025 10:25	RC/JU	Ok
4	Q1608-01	BN036731.D	27 Mar 2025 11:01	RC/JU	Ok
5	Q1608-02	BN036732.D	27 Mar 2025 11:38	RC/JU	Ok
6	Q1621-01	BN036733.D	27 Mar 2025 12:14	RC/JU	Dilution
7	Q1621-02	BN036734.D	27 Mar 2025 12:50	RC/JU	ReRun
8	Q1621-03	BN036735.D	27 Mar 2025 13:26	RC/JU	ReRun
9	SSTDCCC0.4	BN036736.D	27 Mar 2025 14:02	RC/JU	Ok,M
10	DFTPP	BN036737.D	27 Mar 2025 14:38	RC/JU	Ok
11	SSTDCCC0.4	BN036738.D	27 Mar 2025 15:38	RC/JU	Ok,M
12	PB167251BL	BN036739.D	27 Mar 2025 16:14	RC/JU	Ok
13	Q1621-02	BN036740.D	27 Mar 2025 16:50	RC/JU	Ok
14	Q1621-03	BN036741.D	27 Mar 2025 17:26	RC/JU	Ok
15	Q1621-01DL	BN036742.D	27 Mar 2025 18:02	RC/JU	Ok
16	Q1608-09	BN036743.D	27 Mar 2025 18:39	RC/JU	Ok
17	Q1608-10	BN036744.D	27 Mar 2025 19:15	RC/JU	Dilution
18	Q1608-03	BN036745.D	27 Mar 2025 19:51	RC/JU	Ok,M
19	Q1608-04	BN036746.D	27 Mar 2025 20:27	RC/JU	Ok
20	Q1608-14	BN036747.D	27 Mar 2025 21:03	RC/JU	Dilution
21	Q1608-15	BN036748.D	27 Mar 2025 21:39	RC/JU	Dilution

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM		
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM		
SubDirectory	BN032725	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	Q1608-16	BN036749.D	27 Mar 2025 22:15	RC/JU	Ok
23	Q1608-17	BN036750.D	27 Mar 2025 22:51	RC/JU	Dilution
24	Q1608-18	BN036751.D	27 Mar 2025 23:27	RC/JU	Dilution
25	Q1608-19	BN036752.D	28 Mar 2025 00:03	RC/JU	Ok
26	Q1608-20	BN036753.D	28 Mar 2025 00:39	RC/JU	Ok,M
27	PB167232BS	BN036754.D	28 Mar 2025 01:16	RC/JU	Ok,M
28	SSTDCCC0.4	BN036755.D	28 Mar 2025 01:52	RC/JU	Ok,M
29	DFTPP	BN036756.D	28 Mar 2025 03:07	RC/JU	Ok
30	SSTDCCC0.4	BN036757.D	28 Mar 2025 03:46	RC/JU	Ok,M
31	PB167269BL	BN036758.D	28 Mar 2025 04:22	RC/JU	Ok
32	Q1608-21	BN036759.D	28 Mar 2025 04:58	RC/JU	Ok
33	Q1608-22	BN036760.D	28 Mar 2025 05:34	RC/JU	Ok
34	Q1608-23	BN036761.D	28 Mar 2025 06:10	RC/JU	Dilution
35	Q1608-24	BN036762.D	28 Mar 2025 06:46	RC/JU	Ok
36	Q1608-25	BN036763.D	28 Mar 2025 07:22	RC/JU	Ok,M
37	Q1608-26	BN036764.D	28 Mar 2025 07:58	RC/JU	Ok
38	Q1608-11	BN036765.D	28 Mar 2025 08:34	RC/JU	Ok
39	Q1608-12MS	BN036766.D	28 Mar 2025 10:22	RC/JU	Ok,M
40	Q1608-13MSD	BN036767.D	28 Mar 2025 10:58	RC/JU	Ok
41	Q1629-03	BN036768.D	28 Mar 2025 11:34	RC/JU	Ok
42	Q1629-04MS	BN036769.D	28 Mar 2025 12:47	RC/JU	Ok,M
43	Q1629-05MSD	BN036770.D	28 Mar 2025 13:22	RC/JU	Ok,M
44	SSTDCCC0.4	BN036771.D	28 Mar 2025 13:58	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM		
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM		
SubDirectory	BN032725	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	

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM		
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM		
SubDirectory	BN032825	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	BN036772.D	28 Mar 2025 14:34	RC/JU	Ok
2	SSTDCCC0.4	BN036773.D	28 Mar 2025 15:14	RC/JU	Ok
3	PB167159BL	BN036774.D	28 Mar 2025 15:49	RC/JU	Ok
4	Q1608-10DL	BN036775.D	28 Mar 2025 16:25	RC/JU	Ok
5	Q1608-14DL	BN036776.D	28 Mar 2025 17:02	RC/JU	Ok
6	Q1608-15DL	BN036777.D	28 Mar 2025 17:38	RC/JU	Ok
7	Q1608-17DL	BN036778.D	28 Mar 2025 18:14	RC/JU	Ok
8	Q1608-18DL	BN036779.D	28 Mar 2025 18:50	RC/JU	Ok
9	Q1608-23DL	BN036780.D	28 Mar 2025 19:26	RC/JU	Ok
10	Q1608-27	BN036781.D	28 Mar 2025 20:02	RC/JU	Ok
11	Q1608-28	BN036782.D	28 Mar 2025 20:38	RC/JU	Ok,M
12	Q1608-05	BN036783.D	28 Mar 2025 21:14	RC/JU	Ok
13	Q1608-06	BN036784.D	28 Mar 2025 21:51	RC/JU	Ok
14	Q1608-07	BN036785.D	28 Mar 2025 22:26	RC/JU	Ok
15	Q1608-08	BN036786.D	28 Mar 2025 23:02	RC/JU	Ok
16	PB167251BS	BN036787.D	28 Mar 2025 23:38	RC/JU	Ok,M
17	PB167251BSD	BN036788.D	29 Mar 2025 00:14	RC/JU	Ok,M
18	SSTDCCC0.4	BN036789.D	29 Mar 2025 00:50	RC/JU	Ok,M
19	DFTPP	BN036790.D	29 Mar 2025 01:26	RC/JU	Ok
20	SSTDCCC0.4	BN036791.D	29 Mar 2025 02:44	RC/JU	Ok,M
21	PB167295BL	BN036792.D	29 Mar 2025 03:20	RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM		
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM		
SubDirectory	BN032825	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	Q1620-04	BN036793.D	29 Mar 2025 03:56	RC/JU	Ok
23	Q1620-01	BN036794.D	29 Mar 2025 04:32	RC/JU	Ok
24	Q1620-02	BN036795.D	29 Mar 2025 05:08	RC/JU	Ok
25	Q1620-03	BN036796.D	29 Mar 2025 05:43	RC/JU	Ok
26	Q1629-01	BN036797.D	29 Mar 2025 06:19	RC/JU	Ok
27	Q1629-02	BN036798.D	29 Mar 2025 06:56	RC/JU	Ok
28	Q1629-08	BN036799.D	29 Mar 2025 07:32	RC/JU	Ok
29	Q1629-09	BN036800.D	29 Mar 2025 08:08	RC/JU	Ok
30	Q1629-10	BN036801.D	29 Mar 2025 08:44	RC/JU	Ok
31	Q1629-11	BN036802.D	29 Mar 2025 09:20	RC/JU	Ok
32	Q1629-07	BN036803.D	29 Mar 2025 09:57	RC/JU	Ok,M
33	PB167295BS	BN036804.D	29 Mar 2025 10:33	RC/JU	Ok,M
34	PB167269BSD	BN036805.D	29 Mar 2025 11:09	RC/JU	Not Ok
35	PB167269BS	BN036806.D	29 Mar 2025 11:45	RC/JU	Ok
36	SSTDCCC0.4	BN036807.D	29 Mar 2025 12:21	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 # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM	
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM	
SubDirectory	BN032725	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	BN036728.D	27 Mar 2025 09:10		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036729.D	27 Mar 2025 09:49		RC/JU	Ok
3	PB167232BL	PB167232BL	BN036730.D	27 Mar 2025 10:25		RC/JU	Ok
4	Q1608-01	TT172S1-20250317	BN036731.D	27 Mar 2025 11:01		RC/JU	Ok
5	Q1608-02	RE139D1-20250317	BN036732.D	27 Mar 2025 11:38		RC/JU	Ok
6	Q1621-01	RW5-SP100-20250320	BN036733.D	27 Mar 2025 12:14	Internal Standard Fail, need 5X Dilution	RC/JU	Dilution
7	Q1621-02	RW5-SP201-20250320	BN036734.D	27 Mar 2025 12:50	Internal Standard Fail	RC/JU	ReRun
8	Q1621-03	RW5-SP303-20250320	BN036735.D	27 Mar 2025 13:26	Internal Standard Fail	RC/JU	ReRun
9	SSTDCCC0.4	SSTDCCC0.4EC	BN036736.D	27 Mar 2025 14:02		RC/JU	Ok,M
10	DFTPP	DFTPP	BN036737.D	27 Mar 2025 14:38		RC/JU	Ok
11	SSTDCCC0.4	SSTDCCC0.4	BN036738.D	27 Mar 2025 15:38		RC/JU	Ok,M
12	PB167251BL	PB167251BL	BN036739.D	27 Mar 2025 16:14		RC/JU	Ok
13	Q1621-02	RW5-SP201-20250320	BN036740.D	27 Mar 2025 16:50		RC/JU	Ok
14	Q1621-03	RW5-SP303-20250320	BN036741.D	27 Mar 2025 17:26		RC/JU	Ok
15	Q1621-01DL	RW5-SP100-20250320	BN036742.D	27 Mar 2025 18:02		RC/JU	Ok
16	Q1608-09	GM38-RW3-MW1-2025	BN036743.D	27 Mar 2025 18:39		RC/JU	Ok
17	Q1608-10	DUP08-20250318	BN036744.D	27 Mar 2025 19:15	Need 2X Dilution	RC/JU	Dilution

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM	
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM	
SubDirectory	BN032725	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	Q1608-03	RE139D2-20250317	BN036745.D	27 Mar 2025 19:51		RC/JU	Ok,M
19	Q1608-04	TT205S1-20250317	BN036746.D	27 Mar 2025 20:27		RC/JU	Ok
20	Q1608-14	RE132D2-20250318	BN036747.D	27 Mar 2025 21:03	Need 2X Dilution	RC/JU	Dilution
21	Q1608-15	RE132D3-20250318	BN036748.D	27 Mar 2025 21:39	Need 2X Dilution	RC/JU	Dilution
22	Q1608-16	RE132D4-20250318	BN036749.D	27 Mar 2025 22:15		RC/JU	Ok
23	Q1608-17	RE132D5-20250318	BN036750.D	27 Mar 2025 22:51	Need 2X Dilution	RC/JU	Dilution
24	Q1608-18	RE132D6-20250318	BN036751.D	27 Mar 2025 23:27	Need 2X Dilution	RC/JU	Dilution
25	Q1608-19	RE132D7-20250318	BN036752.D	28 Mar 2025 00:03		RC/JU	Ok
26	Q1608-20	RE117D2-20250319	BN036753.D	28 Mar 2025 00:39		RC/JU	Ok,M
27	PB167232BS	PB167232BS	BN036754.D	28 Mar 2025 01:16		RC/JU	Ok,M
28	SSTDCCC0.4	SSTDCCC0.4EC	BN036755.D	28 Mar 2025 01:52		RC/JU	Ok,M
29	DFTPP	DFTPP	BN036756.D	28 Mar 2025 03:07		RC/JU	Ok
30	SSTDCCC0.4	SSTDCCC0.4	BN036757.D	28 Mar 2025 03:46		RC/JU	Ok,M
31	PB167269BL	PB167269BL	BN036758.D	28 Mar 2025 04:22		RC/JU	Ok
32	Q1608-21	TT101D2-20250319	BN036759.D	28 Mar 2025 04:58		RC/JU	Ok
33	Q1608-22	TT161S1-20250319	BN036760.D	28 Mar 2025 05:34		RC/JU	Ok
34	Q1608-23	TT189D2-20250319	BN036761.D	28 Mar 2025 06:10	Need 2X Dilution	RC/JU	Dilution
35	Q1608-24	RW8-MW01S-2025031	BN036762.D	28 Mar 2025 06:46		RC/JU	Ok
36	Q1608-25	RW8-MW01D1-202503	BN036763.D	28 Mar 2025 07:22		RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM	
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM	
SubDirectory	BN032725	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	Q1608-26	RW8-MW01D2-202503	BN036764.D	28 Mar 2025 07:58		RC/JU	Ok
38	Q1608-11	RE132D1-20250318	BN036765.D	28 Mar 2025 08:34		RC/JU	Ok
39	Q1608-12MS	RE132D1-20250318MS	BN036766.D	28 Mar 2025 10:22		RC/JU	Ok,M
40	Q1608-13MSD	RE132D1-20250318MS	BN036767.D	28 Mar 2025 10:58		RC/JU	Ok
41	Q1629-03	TT188S1-20250320	BN036768.D	28 Mar 2025 11:34		RC/JU	Ok
42	Q1629-04MS	TT188S1-20250320MS	BN036769.D	28 Mar 2025 12:47		RC/JU	Ok,M
43	Q1629-05MSD	TT188S1-20250320MS	BN036770.D	28 Mar 2025 13:22		RC/JU	Ok,M
44	SSTDCCC0.4	SSTDCCC0.4EC	BN036771.D	28 Mar 2025 13:58		RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM	
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM	
SubDirectory	BN032825	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	BN036772.D	28 Mar 2025 14:34		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036773.D	28 Mar 2025 15:14		RC/JU	Ok
3	PB167159BL	PB167159BL	BN036774.D	28 Mar 2025 15:49		RC/JU	Ok
4	Q1608-10DL	DUP08-20250318DL	BN036775.D	28 Mar 2025 16:25		RC/JU	Ok
5	Q1608-14DL	RE132D2-20250318DL	BN036776.D	28 Mar 2025 17:02		RC/JU	Ok
6	Q1608-15DL	RE132D3-20250318DL	BN036777.D	28 Mar 2025 17:38		RC/JU	Ok
7	Q1608-17DL	RE132D5-20250318DL	BN036778.D	28 Mar 2025 18:14		RC/JU	Ok
8	Q1608-18DL	RE132D6-20250318DL	BN036779.D	28 Mar 2025 18:50		RC/JU	Ok
9	Q1608-23DL	TT189D2-20250319DL	BN036780.D	28 Mar 2025 19:26		RC/JU	Ok
10	Q1608-27	RW8-MW01D3-202503	BN036781.D	28 Mar 2025 20:02		RC/JU	Ok
11	Q1608-28	DUP09-20250319	BN036782.D	28 Mar 2025 20:38		RC/JU	Ok,M
12	Q1608-05	DUP07-20250317	BN036783.D	28 Mar 2025 21:14		RC/JU	Ok
13	Q1608-06	TT163S1-20250317	BN036784.D	28 Mar 2025 21:51		RC/JU	Ok
14	Q1608-07	RW11-MW01S-202503	BN036785.D	28 Mar 2025 22:26		RC/JU	Ok
15	Q1608-08	RW11-MW01I-2025031	BN036786.D	28 Mar 2025 23:02		RC/JU	Ok
16	PB167251BS	PB167251BS	BN036787.D	28 Mar 2025 23:38		RC/JU	Ok,M
17	PB167251BSD	PB167251BSD	BN036788.D	29 Mar 2025 00:14		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN036789.D	29 Mar 2025 00:50		RC/JU	Ok,M

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM	
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM	
SubDirectory	BN032825	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	

19	DFTPP	DFTPP	BN036790.D	29 Mar 2025 01:26		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN036791.D	29 Mar 2025 02:44		RC/JU	Ok,M
21	PB167295BL	PB167295BL	BN036792.D	29 Mar 2025 03:20		RC/JU	Ok
22	Q1620-04	RW7-SP303-20250320	BN036793.D	29 Mar 2025 03:56		RC/JU	Ok
23	Q1620-01	RW7-SP100-20250320	BN036794.D	29 Mar 2025 04:32		RC/JU	Ok
24	Q1620-02	RW7-SP201-20250320	BN036795.D	29 Mar 2025 05:08		RC/JU	Ok
25	Q1620-03	RW7-SP302-20250320	BN036796.D	29 Mar 2025 05:43		RC/JU	Ok
26	Q1629-01	TT174I1-20250320	BN036797.D	29 Mar 2025 06:19		RC/JU	Ok
27	Q1629-02	TT162S1-20250320	BN036798.D	29 Mar 2025 06:56		RC/JU	Ok
28	Q1629-08	RW09-MW01D2-20250	BN036799.D	29 Mar 2025 07:32		RC/JU	Ok
29	Q1629-09	RW09-MW01D3-20250	BN036800.D	29 Mar 2025 08:08		RC/JU	Ok
30	Q1629-10	TT150S1-20250320	BN036801.D	29 Mar 2025 08:44		RC/JU	Ok
31	Q1629-11	FB03-20250321	BN036802.D	29 Mar 2025 09:20		RC/JU	Ok
32	Q1629-07	RW09-MW01D1-20250	BN036803.D	29 Mar 2025 09:57		RC/JU	Ok,M
33	PB167295BS	PB167295BS	BN036804.D	29 Mar 2025 10:33		RC/JU	Ok,M
34	PB167269BSD	PB167269BSD	BN036805.D	29 Mar 2025 11:09	Surrogate Fail	RC/JU	Not Ok
35	PB167269BS	PB167269BS	BN036806.D	29 Mar 2025 11:45		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN036807.D	29 Mar 2025 12:21		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167232

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 : 03/20/2025

Extraction Start Time : 10:49

Extraction End Date : 03/20/2025

Extraction End Time : 16:00

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	SP6755
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	E3904
Baked Na2SO4	N/A	EP2595
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
3/20/25	RS (Ext lab)	AC/SVOC
16:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167232

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 03/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167232BL	SBLK232	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB167232BS	SLCS232	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
Q1608-01	TT172S1-20250317	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		3
Q1608-02	RE139D1-20250317	SVOC-SIMGrou p1	900	6	RUPESH	ritesh	1	C		4
Q1608-03	RE139D2-20250317	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		5
Q1608-04	TT205S1-20250317	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		6
Q1608-05	DUP07-20250317	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		7
Q1608-06	TT163S1-20250317	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		8
Q1608-07	RW11-MW01S-20250317	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		9
Q1608-08	RW11-MW01I-20250317	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		10
Q1608-09	GM38-RW3-MW1-202503 18	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		11
Q1608-10	DUP08-20250318	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		12
Q1608-11	RE132S1-20250318	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		13
Q1608-12	Q1608-11MS	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		14
Q1608-13	Q1608-11MS	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		15
Q1608-14	RE132D2-20250318	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		16
Q1608-15	RE132D3-20250318	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		17
Q1608-16	RE132D4-20250318	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		18
Q1608-17	RE132D5-20250318	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		SEP-1
Q1608-18	RE132D6-20250318	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		2
Q1608-19	RE132D7-20250318	SVOC-SIMGrou p1	880	6	RUPESH	ritesh	1	C		3
Q1608-20	RE117D2-20250318	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		4

RS 3/20

*** Extracts relinguished on the same date as received.**

6/23/25 10:49

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1608 **WorkList ID :** 188402 **Department :** Extraction **Date :** 03-20-2025 10:45:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1608-01	TT172S1-20250317	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/17/2025	8270-Modified
Q1608-02	RE139D1-20250317	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/17/2025	8270-Modified
Q1608-03	RE139D2-20250317	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/17/2025	8270-Modified
Q1608-04	TT205S1-20250317	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/17/2025	8270-Modified
Q1608-05	DUP07-20250317	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/17/2025	8270-Modified
Q1608-06	TT163S1-20250317	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/17/2025	8270-Modified
Q1608-07	RW11-MW01S-20250317	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/17/2025	8270-Modified
Q1608-08	RW11-MW01I-20250317	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/17/2025	8270-Modified
Q1608-09	GM38-RW3-MW1-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-10	DUP08-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-11	RE132S1-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-12	Q1608-11MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-13	Q1608-11MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-14	RE132D2-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-15	RE132D3-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-16	RE132D4-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-17	RE132D5-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-18	RE132D6-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-19	RE132D7-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/18/2025	8270-Modified
Q1608-20	RE117D2-20250318	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified

Date/Time 3/20/25 10:45

Raw Sample Received by: RS (EXL-Lab) SH

Raw Sample Relinquished by: SH

Date/Time 3/20/25 11:30

Raw Sample Received by: SH

Raw Sample Relinquished by: RS (EXL-Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167251

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	03/21/2025
Matrix :	Water			**Extraction Start Time :**	08:40
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	03/21/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	13:40
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	rajesh

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	SP6755
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	E3904
Baked Na2SO4	N/A	EP2595
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	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/21/25	RP (Ext. Lab)	JY/SVOA
13:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167251

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/21/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167251BL	SBLK251	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			SEP-01
PB167251BS	SLCS251	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			2
PB167251BSD	SLCSD251	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1			3
Q1608-21	TT101D2-20250319	SVOC-SIMGroup1	890	6	ritesh	rajesh	1	C		4
Q1608-22	TT161S1-20250319	SVOC-SIMGroup1	980	6	ritesh	rajesh	1	C		5
Q1608-23	TT189D2-20250319	SVOC-SIMGroup1	960	6	ritesh	rajesh	1	C		6
Q1608-24	RW8-MW01S-20250319	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1	C		7
Q1608-25	RW8-MW01D1-20250319	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1	C		8
Q1608-26	RW8-MW01D2-20250319	SVOC-SIMGroup1	990	6	ritesh	rajesh	1	C		9
Q1608-27	RW8-MW01D3-20250319	SVOC-SIMGroup1	1000	6	ritesh	rajesh	1	C		10
Q1608-28	DUP09-20250319	SVOC-SIMGroup1	990	6	ritesh	rajesh	1	C		11

* **Extracts relinquished on the same date as received.**

3/25/25

Q1608-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1608M **WorkList ID :** 188439 **Department :** Extraction **Date :** 03-21-2025 08:25:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1608-21	TT101D2-20250319	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified
Q1608-22	TT161S1-20250319	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified
Q1608-23	TT189D2-20250319	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified
Q1608-24	RW8-MW01S-20250319	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified
Q1608-25	RW8-MW01D1-20250319	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified
Q1608-26	RW8-MW01D2-20250319	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified
Q1608-27	RW8-MW01D3-20250319	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified
Q1608-28	DUP09-20250319	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I51	03/19/2025	8270-Modified

980 of 1386

Date/Time 09/21/25 8:35
Raw Sample Received by: RJ (Sept Lab)
Raw Sample Relinquished by: SM

Date/Time 09/21/25 9:05
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Sept Lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q1608

Test : SVOC-SIMGroup1

Prepbatch ID : PB167232,PB167251,

Sequence ID/Qc Batch ID: bn032725,BN032825,

Standard ID :
EP2559,EP2565,EP2595,SP6682,SP6683,SP6684,SP6717,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6755,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3828,E3871,E3873,E3874,E3902,E3904,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12195,S12208,S12216,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	EP2595	03/17/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/17/2025

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	SP6755	03/20/2025	07/24/2025	Jagrut Upadhyay	None	None	Rahul Chavli 04/01/2025

FROM 0.00400ml of S12195 + 0.00800ml of S12216 + 0.02000ml of S11832 + 99.96800ml of E3902 = 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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

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 #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	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

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-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

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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.

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Certificate #3222.01

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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 **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

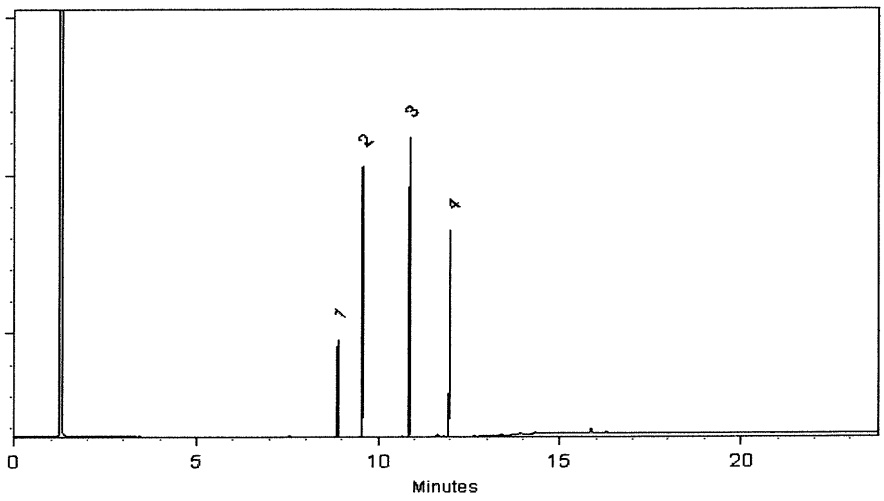
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 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)

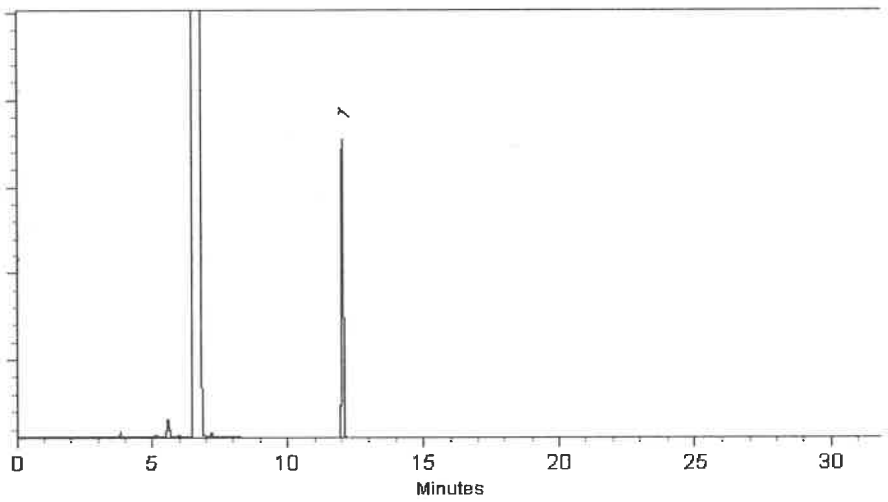
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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 RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 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

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

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

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

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

E 3902

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

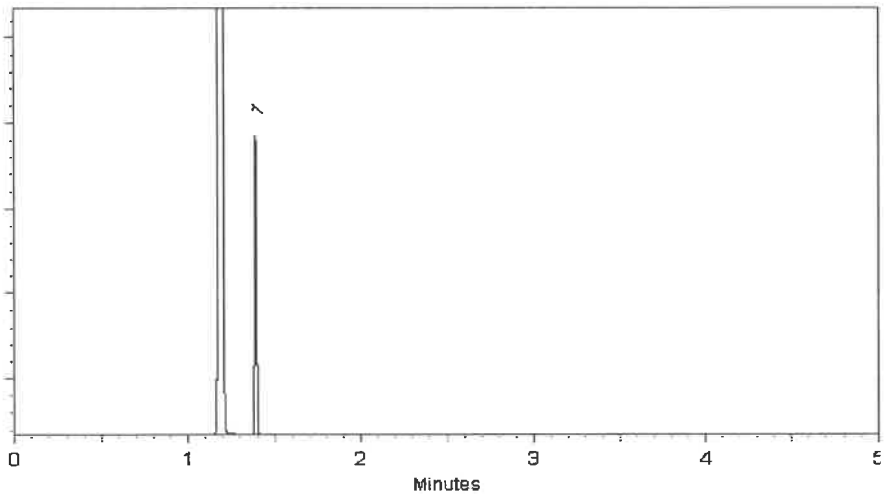
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

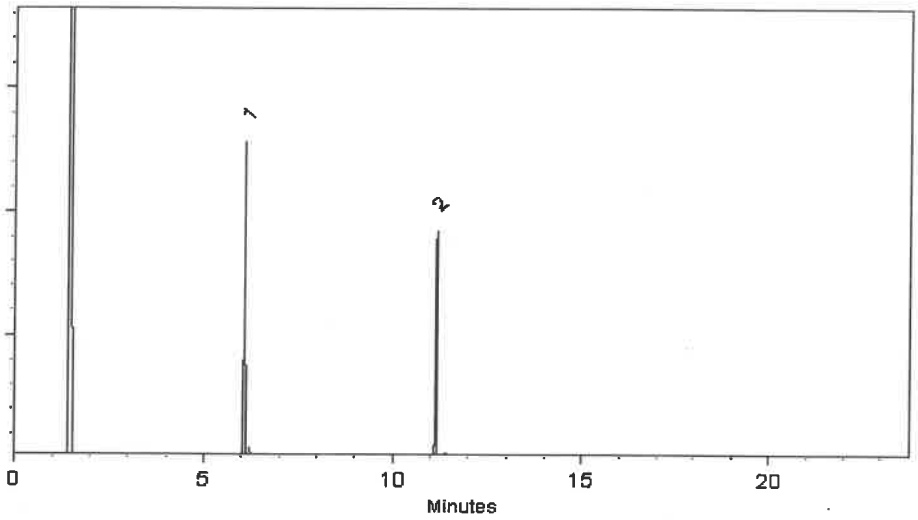
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I **Date Mixed:** 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 28-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

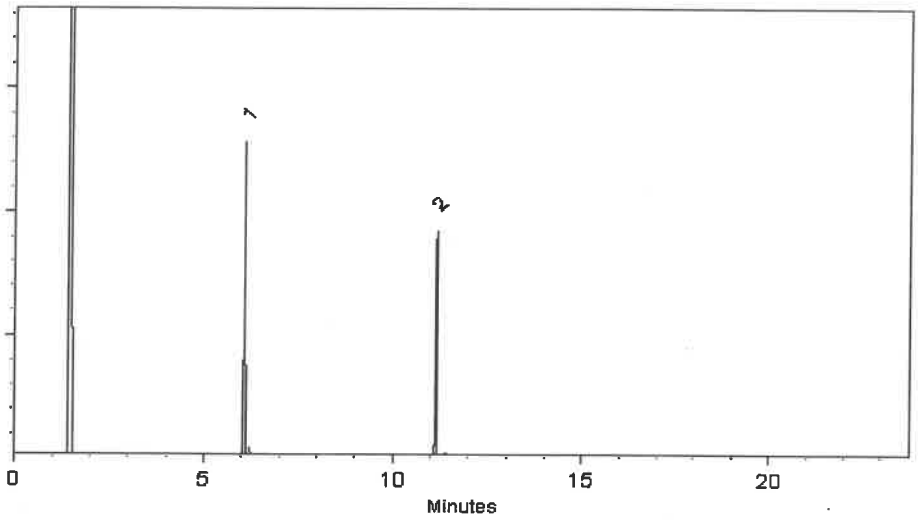
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I **Date Mixed:** 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 28-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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-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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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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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.)

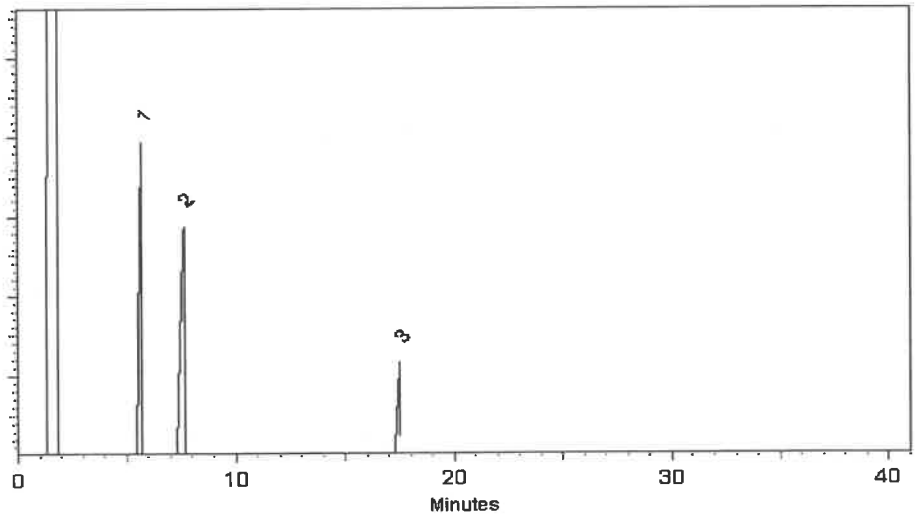
Inj. Temp:
250°C

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

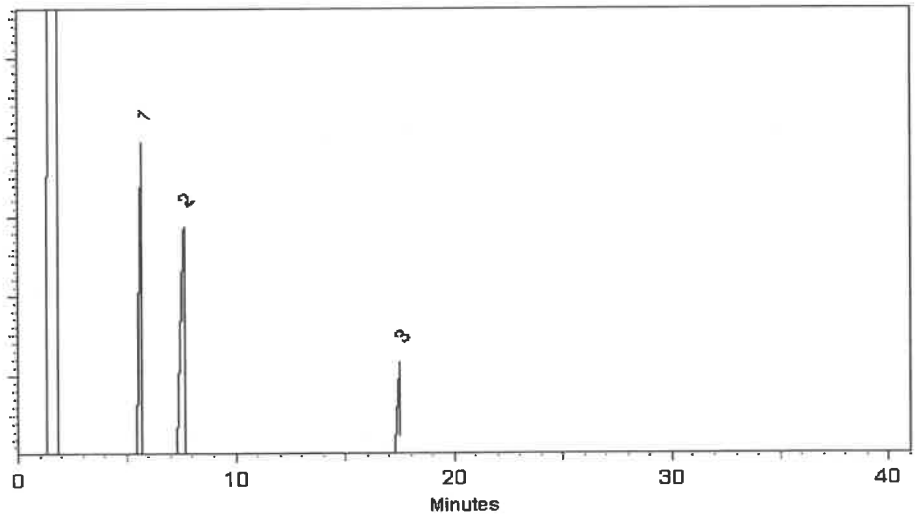
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

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.)

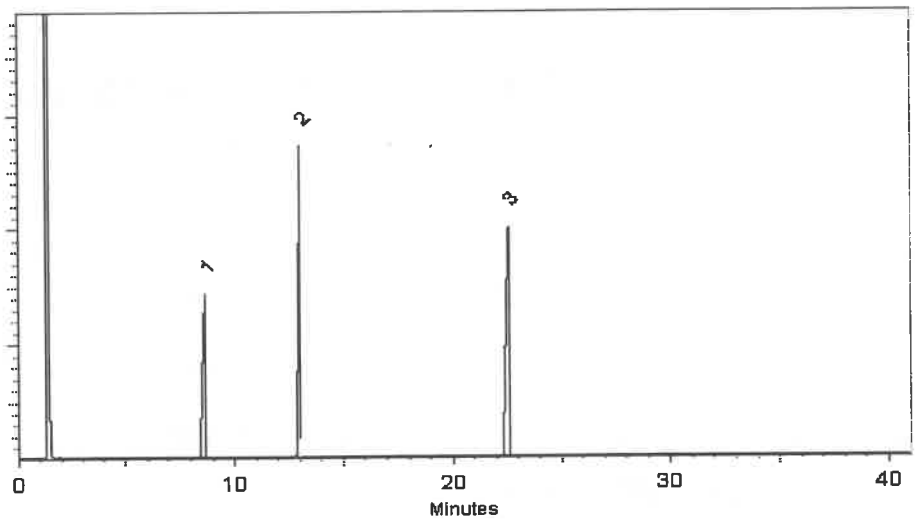
Inj. Temp:
250°C

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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

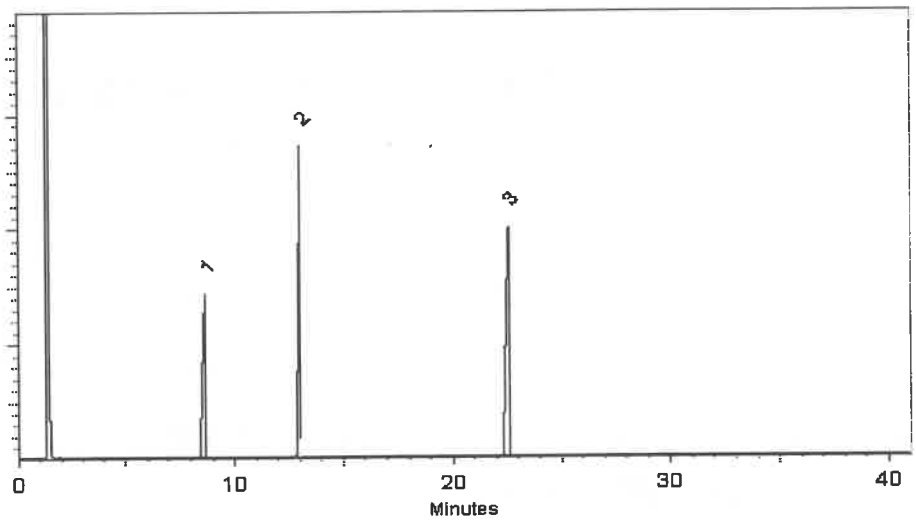
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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-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

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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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.)

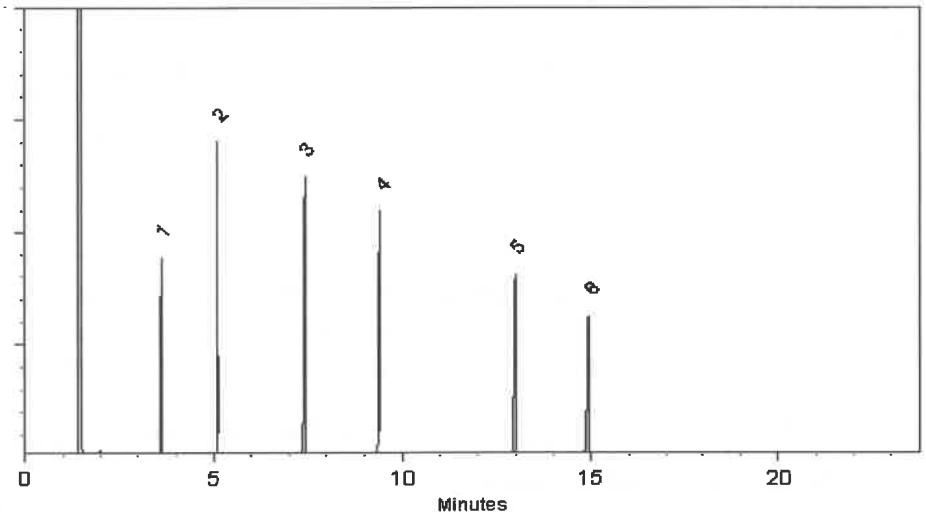
Inj. Temp:
250°C

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** 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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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** 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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** 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.
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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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:

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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:

- 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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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
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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
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Q1608
QUOTE NO.
COC Number 2041509

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO. 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PL.
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: E. VIVOUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
X EDD FORMAT NJDEC EDD CAT B

ANALYSIS

1 VOCs 8260
2 1,4 DIOXANE SIM
3 EDD
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								N/E	E								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	TT172SI-20250317	GW		X	3-17-25	0835	3	2	1								
2.	RE139D1-20250317	GW		X		1135	3	2	1								
3.	RE139D2-20250317	GW		X		1115	3	2	1								
4.	TT205SI-20250317	GW		X		1145	3	2	1								
5.	DUP07-20250317	GW		X		—	3	2	1								
6.	TT163SI-20250317	GW		X		1305	3	2	1								
7.	RW11-MW01S-20250317	GW		X		1200	3	2	1								
8.	RW11-MW01I-20250317	GW		X		1155	3	2	1								
9.	GM38-RW3-MW1-20250318	GW		X	3-18-25	1115	3	2	1								
10.	DUP08-20250318	GW		X	3-18-25	—	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3-19-25	1. 1400 3-19-25
2.	DATE/TIME:	2.
3.	DATE/TIME: 1612 3-19-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments:

Page 1 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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CHEMTECH
CHAIN OF CUSTODY RECORD

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www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. Q1608
COC Number 2041510

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO. 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS AL
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
X EDD FORMAT NYSDEC EDD CAT B

ANALYSIS

VOCs 8260
1,4 Dioxane SIM 8270

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								NE	E								← Specify Preservatives A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER
1.	RE132S1-20250318	GW		X	3-18-25	1210	9	6	3								MS/MSD
2.	RE132D2-20250318	GW		X		1100	3	2	1								
3.	RE132D3-20250318	GW		X		0948	3	2	1								
4.	RE132D4-20250318	GW		X		0940	3	2	1								
5.	RE132D5-20250318	GW		X		0915	3	2	1								
6.	RE132D6-20250318	GW		X		0940	3	2	1								
7.	RE132D7-20250318	GW		X		1110	3	2	1								
8.	RE117D2-20250319	GW		X	3-19-25	0910	3	2	1								
9.	TT101P2-20250319	GW		X		1015	3	2	1								
10.	TT161S1-20250319	GW		X		0910	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3-19-25	1400 3-19-25
2.		
3.	3-19-25 612	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments:

Page 2 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1608
COC Number 2045895

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: E. VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PL
CITY OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other
☒ EDD FORMAT NYSDEC EQUIS (TAB)

ANALYSIS

1: VOCs 8260 + 1,4 DIOXANE 2: 3. 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/E	E								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	TT189D2-20250319	GW		X	3-19-25	1220	3	2	1								
2.	RW8-MW01S-20250319	GW		X	"	1135	3	2	1								
3.	RW8-MW01D1-20250319	GW		X	"	1150	3	2	1								
4.	RW8-MW01D2-20250319	GW		X	"	0950	3	2	1								
5.	RW8-MW01D3-20250319	GW		X	"	0947	3	2	1								
6.	DUP09-20250319	GW		X	"	—	3	2	1								
7.	TB	DW		X	3-14-25	—	2	2									
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3-19-25	1. 1400 3-19-25
2.		2.
3.	3-19-25 1612	3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 2.5 °C
Comments:

Page 1 of 3

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

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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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1608 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 3/19/2025 2:28:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 3/19/2025 4:12:00 PM
Purchase Order :

Project Mgr :
Report Type : Results Only NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1608-01	TT172S1-20250317	Water	03/17/2025	08:35					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-02	RE139D1-20250317	Water	03/17/2025	11:35					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-03	RE139D2-20250317	Water	03/17/2025	11:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-04	TT205S1-20250317	Water	03/17/2025	12:45					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-05	DUP07-20250317	Water	03/17/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-06	TT163S1-20250317	Water	03/17/2025	13:05					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-07	RW11-MW01S-20250317	Water	03/17/2025	12:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-08	RW11-MW01I-20250317	Water	03/17/2025	11:55					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1608 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
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Invoice Contact : Eleanor Vivadou

Order Date : 3/19/2025 2:28:00 PM
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Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-09	GM38-RW3-MW1-20250318	Water	03/18/2025	11:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-10	DUP08-20250318	Water	03/18/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-11	[redacted]-20250318 RE132D1	Water	03/18/2025	12:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-12	Q1608-11MS	Water	03/18/2025	12:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-13	Q1608-11MSD	Water	03/18/2025	12:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-14	RE132D2-20250318	Water	03/18/2025	11:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-15	RE132D3-20250318	Water	03/18/2025	09:48					
					VOCMS Group1		8260-Low		10 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1608 AECO15
Client Name : AECOM Technical Service
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Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 3/19/2025 2:28:00 PM
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Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1608-16	RE132D4-20250318	Water	03/18/2025	09:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-17	RE132D5-20250318	Water	03/18/2025	09:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-18	RE132D6-20250318	Water	03/18/2025	09:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-19	RE132D7-20250318	Water	03/18/2025	11:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-20	RE117D2-2025031[redacted]9	Water	03/19/2025	09:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-21	TT101D2-20250319	Water	03/19/2025	10:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-22	TT161S1-20250319	Water	03/19/2025	09:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1608-23	TT189D2-20250319	Water	03/19/2025	12:20					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1608 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 3/19/2025 2:28:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 3/19/2025 4:12:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1608-24	RW8-MW01S-20250319	Water	03/19/2025	11:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1608-25	RW8-MW01D1-20250319	Water	03/19/2025	11:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1608-26	RW8-MW01D2-20250319	Water	03/19/2025	09:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1608-27	RW8-MW01D3-20250319	Water	03/19/2025	09:47					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1608-28	DUP09-20250319	Water	03/19/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1608-29	TB	Water	03/19/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q1608 AECO15	**Order Date :**	3/19/2025 2:28:00 PM	**Project Mgr :**	
Client Name :	AECOM Technical Service	**Project Name :**	NAVFAC NWIRP Bethpage	**Report Type :**	~~Results Only~~ NYS ASP B
Client Contact :	Eleanor Vivadou	**Receive DateTime :**	3/19/2025 4:12:00 PM	**EDD Type :**	EQUIS
Invoice Name :	AECOM Technical Service	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Eleanor Vivadou			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : [signature]
Date / Time : 3/20/25 0955

Received By : Sam
Date / Time : 03/20/25 09:55 Refrig 4

Storage Area : **VOA Refridgerator Room**

Quantitation Report (Not 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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

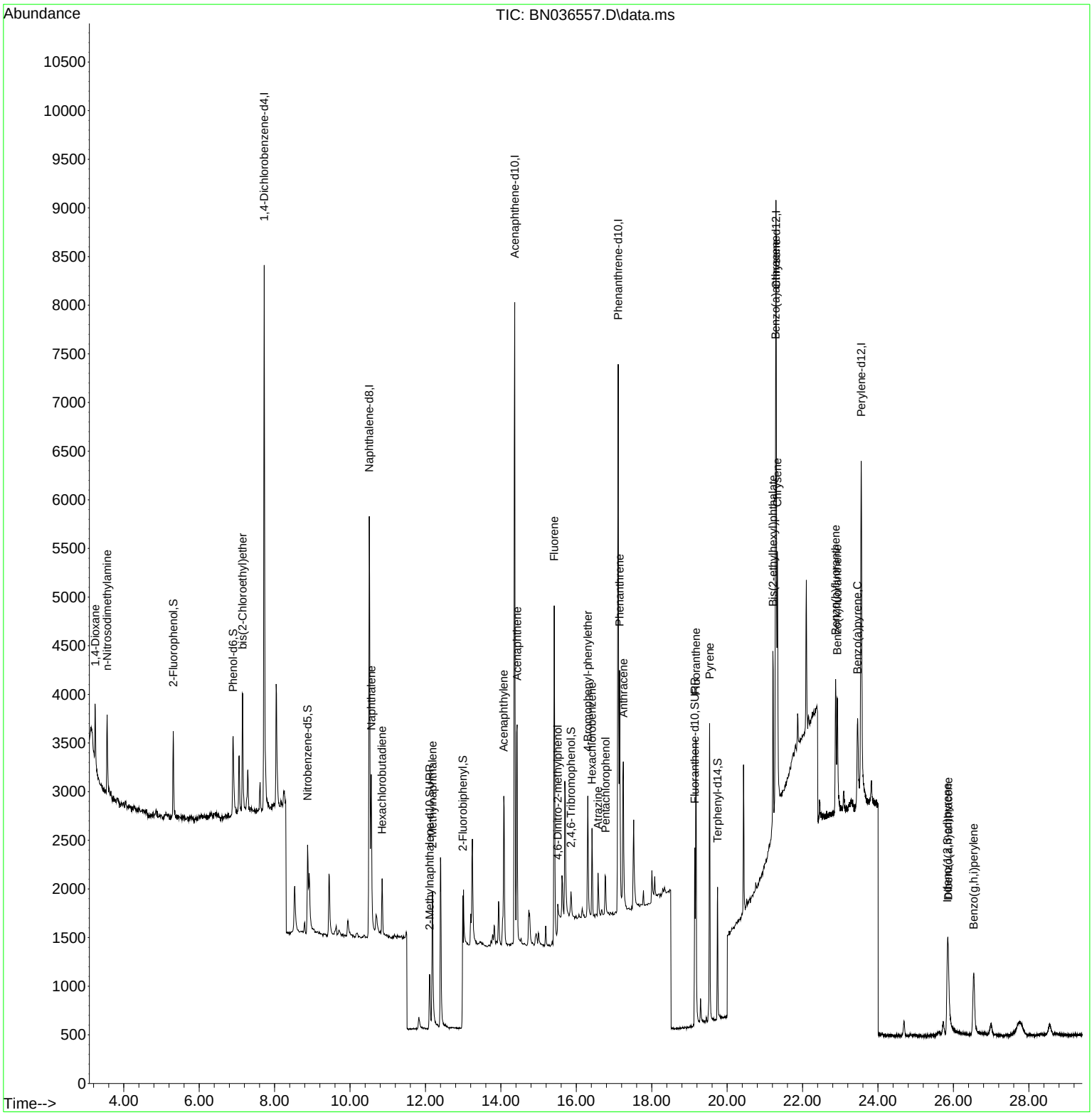
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng		0.00
29) Chrysene-d12	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	534	0.175	ng	#	78
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
20) 4,6-Dinitro-2-methylph...	15.510	198	122	0.204	ng	#	24
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

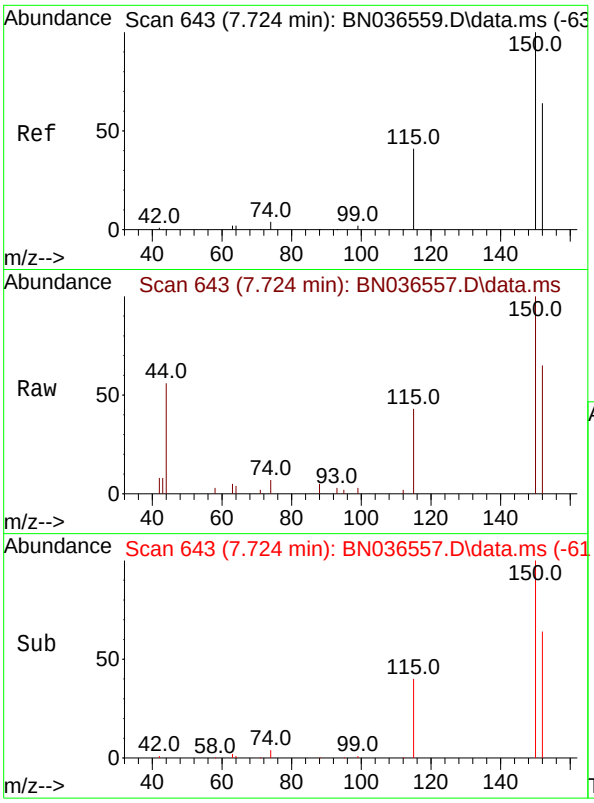
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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



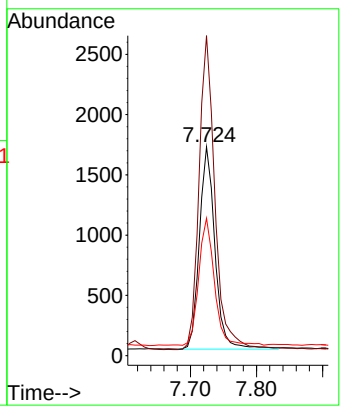


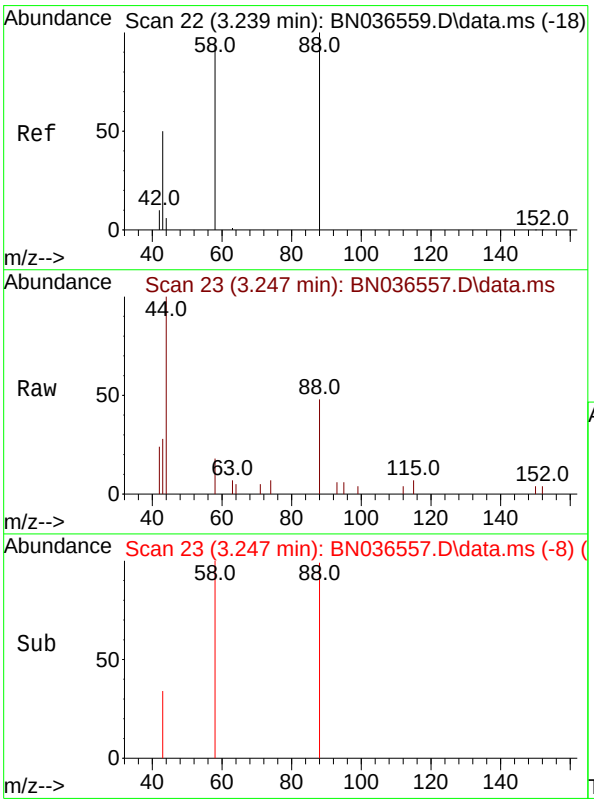
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2755

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

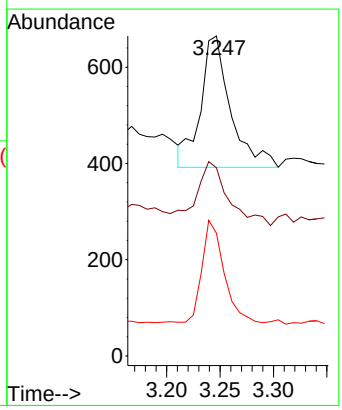


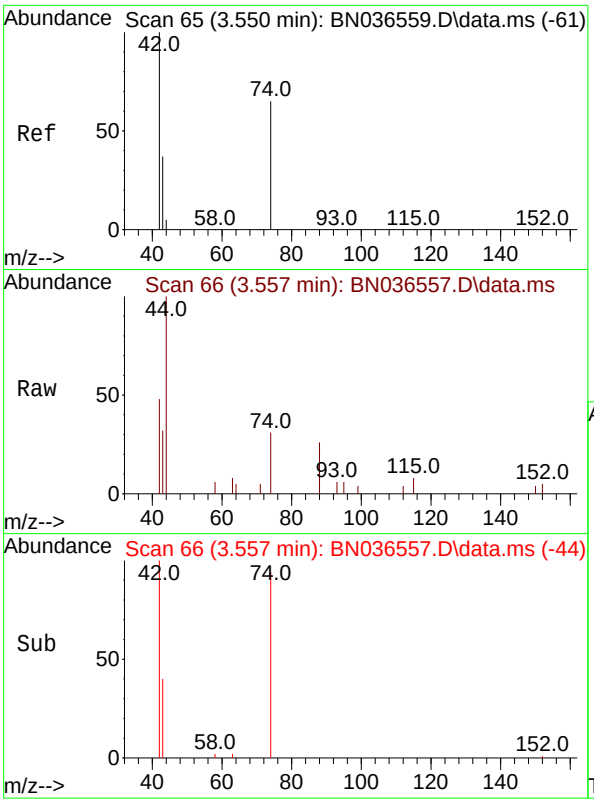


#2
1,4-Dioxane
Concen: 0.175 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 534

Ion	Ratio	Lower	Upper
88	100		
43	53.0	37.8	56.8
58	57.3	67.4	101.2#



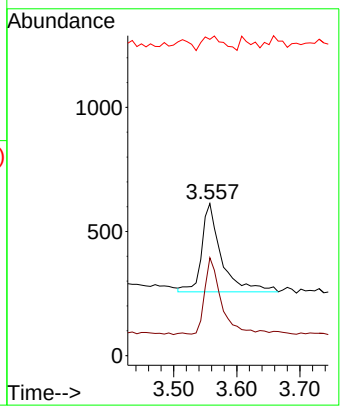


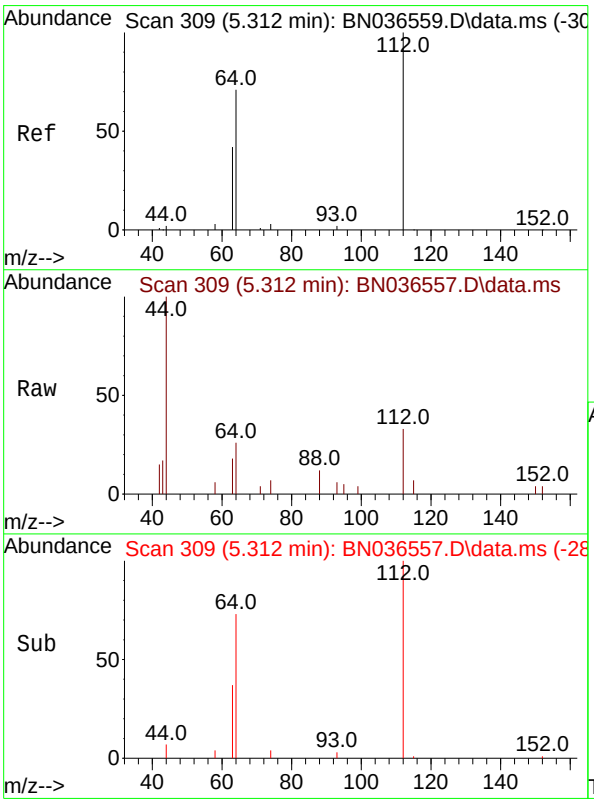
#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 766

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

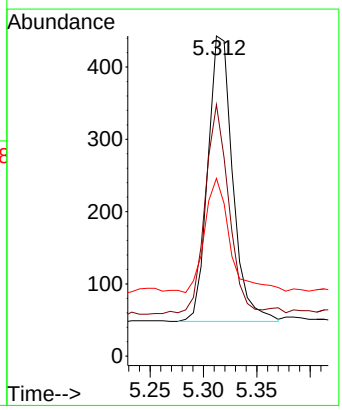


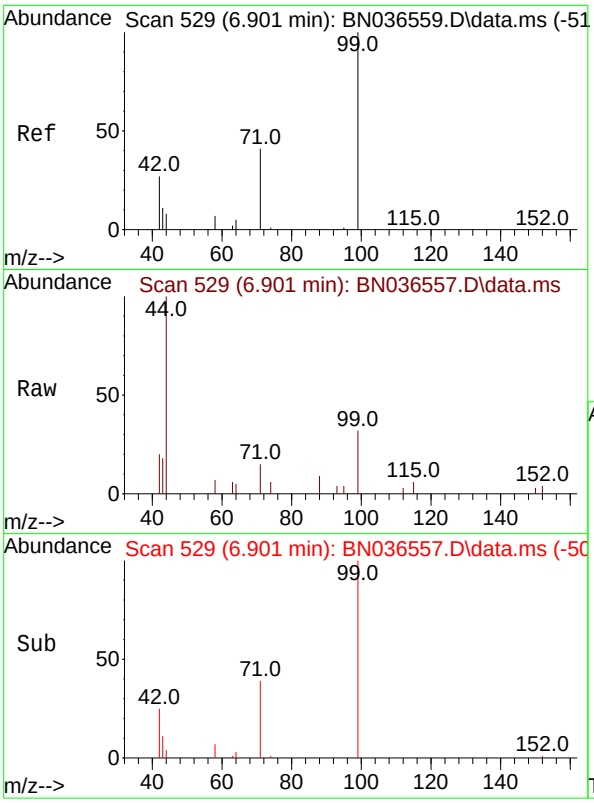


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



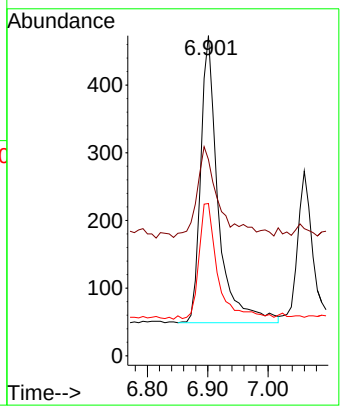


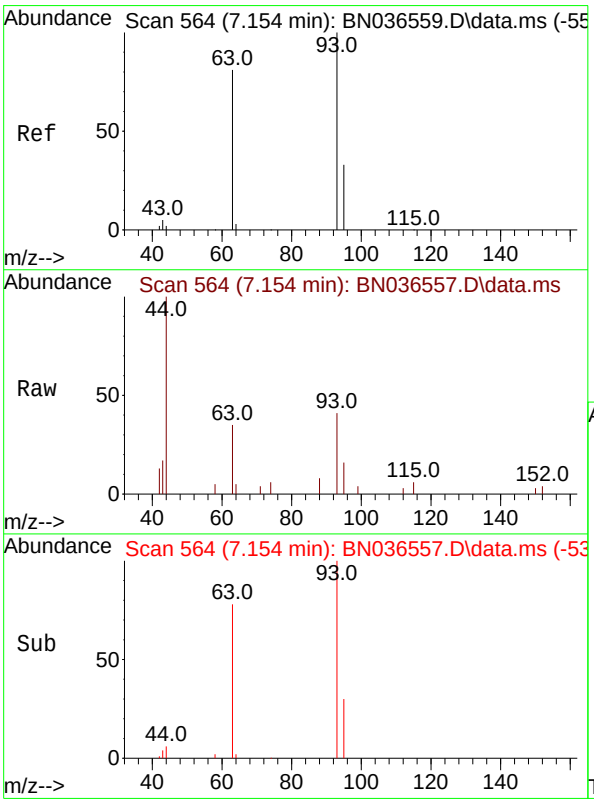
#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 856

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

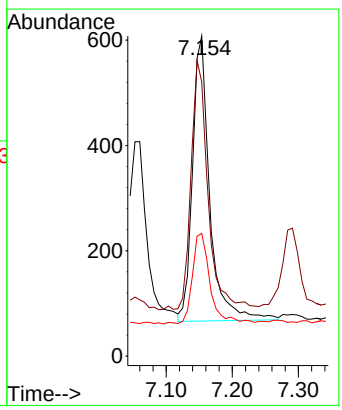


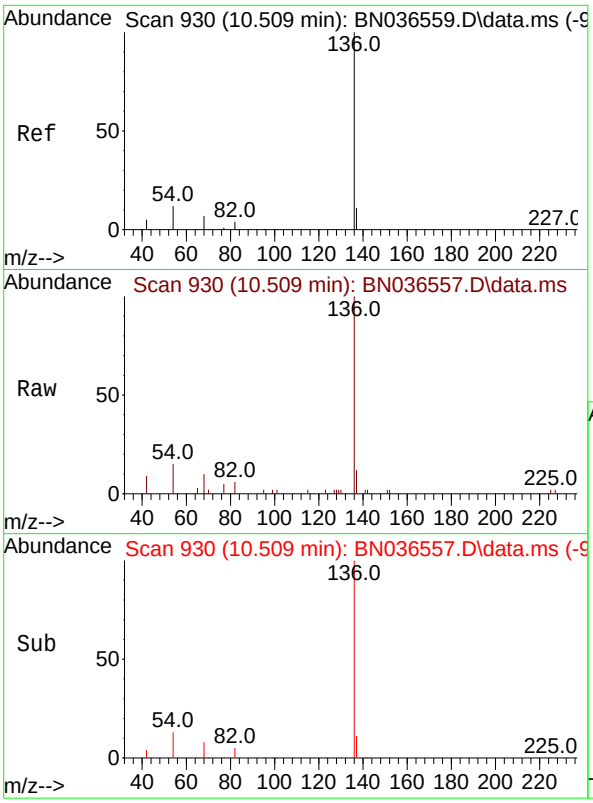


#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



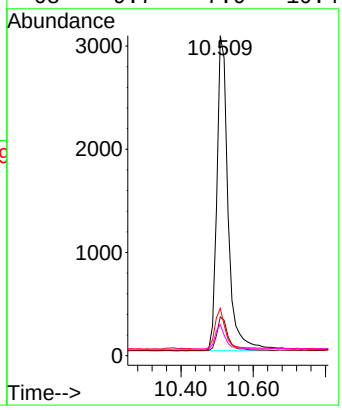


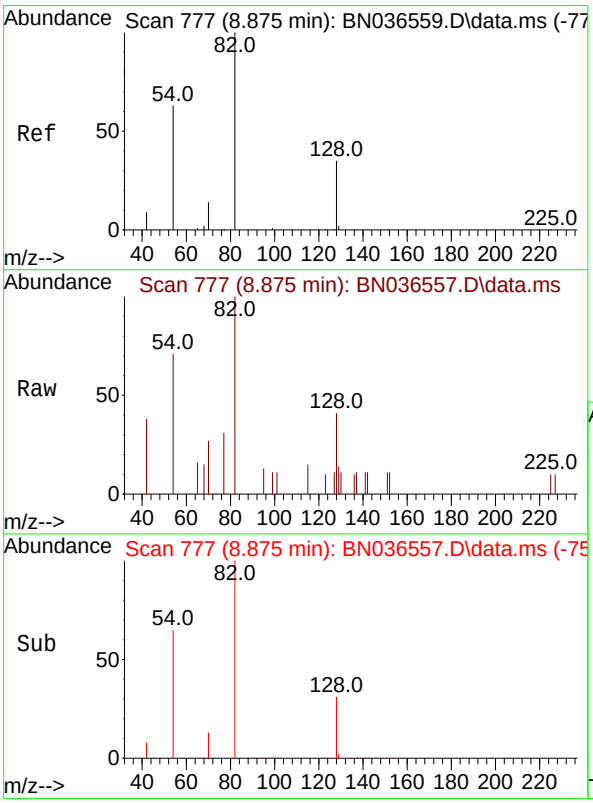
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 6575

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

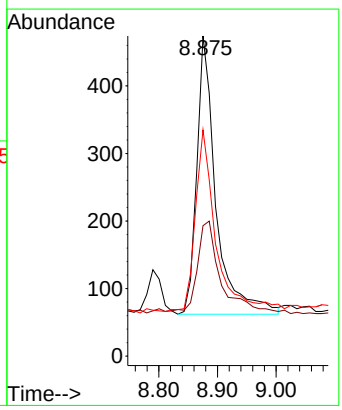


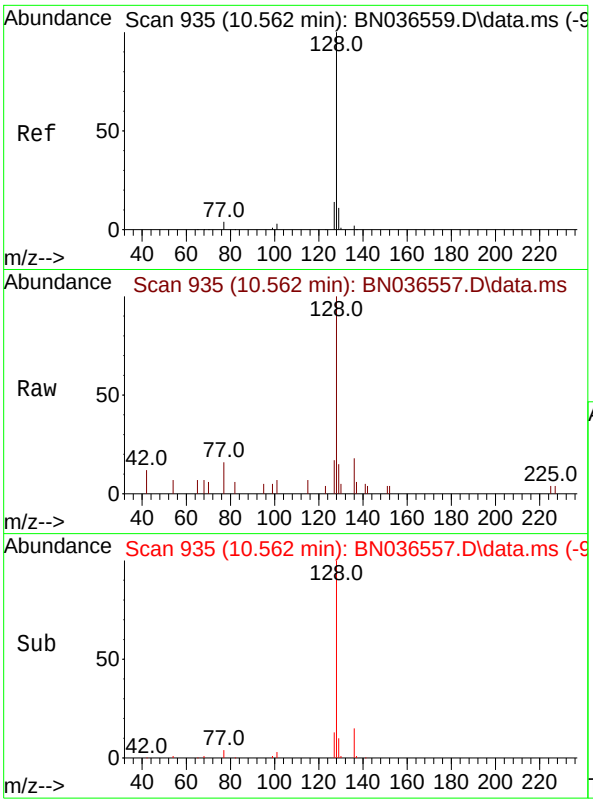


#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



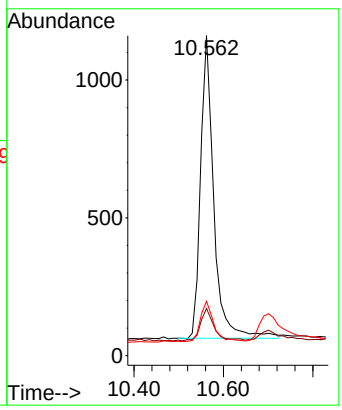


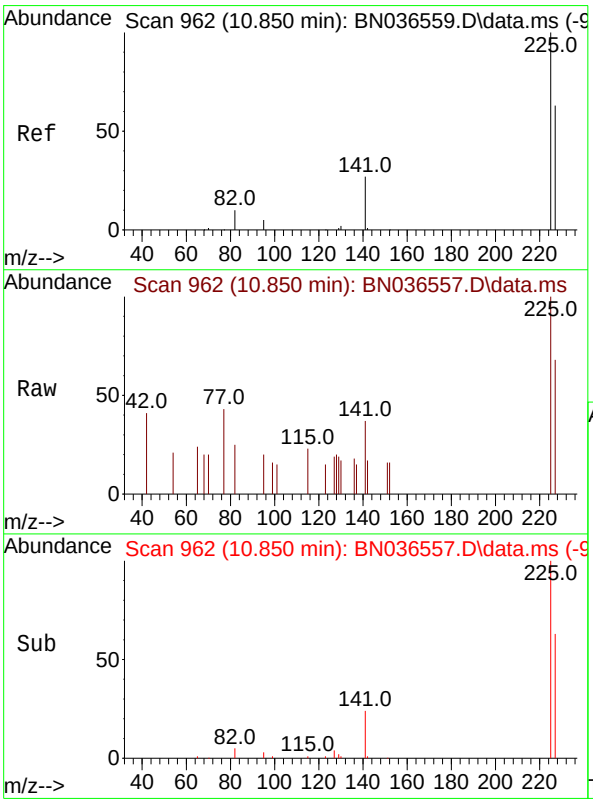
#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 2254

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

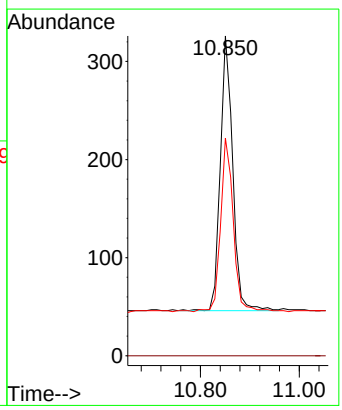


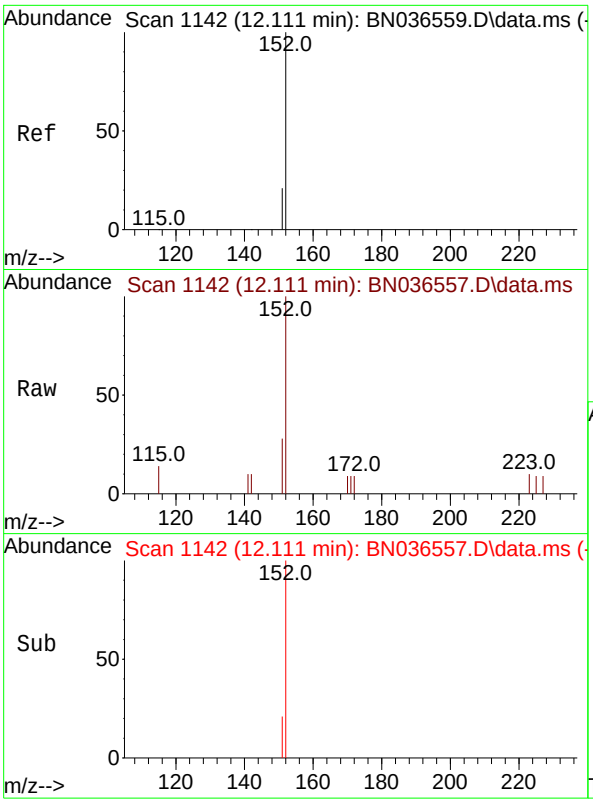


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



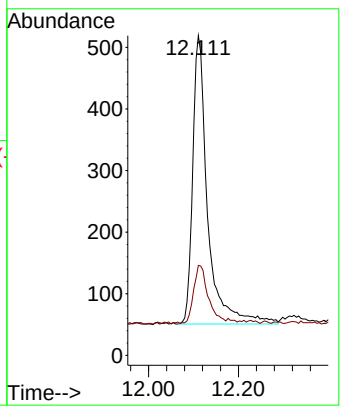


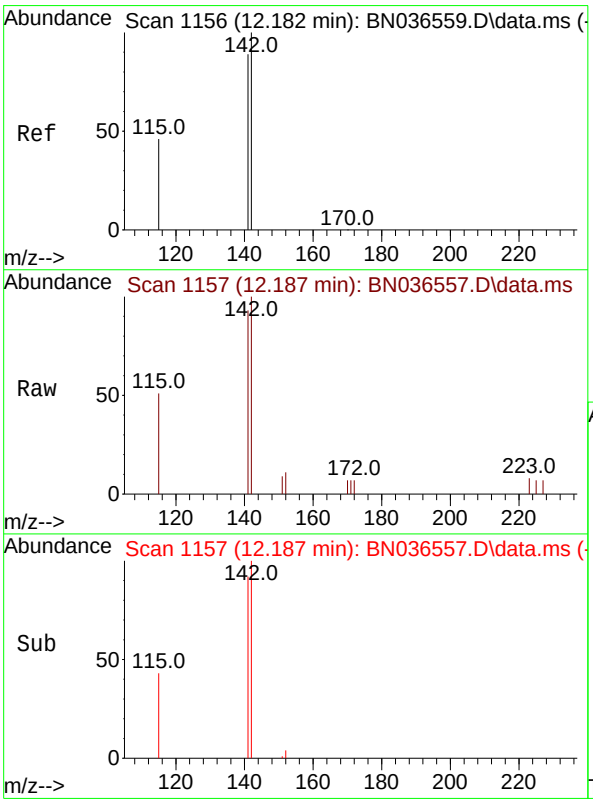
#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 1079

Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.0	25.6

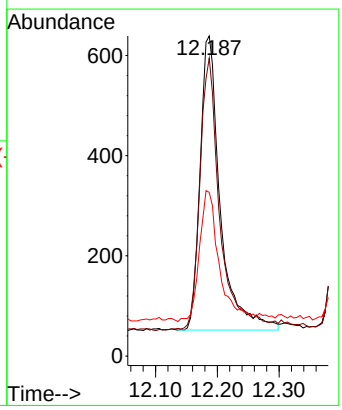


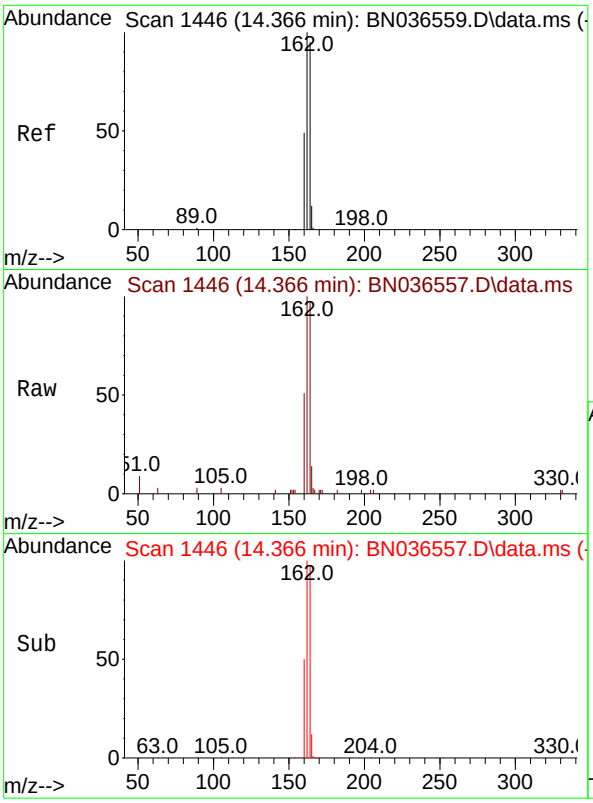


#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



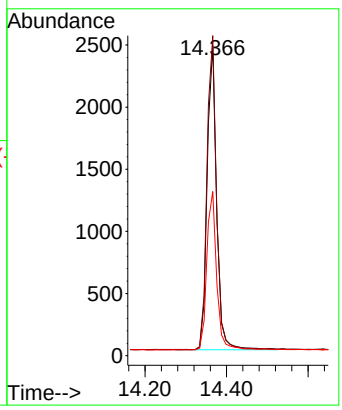


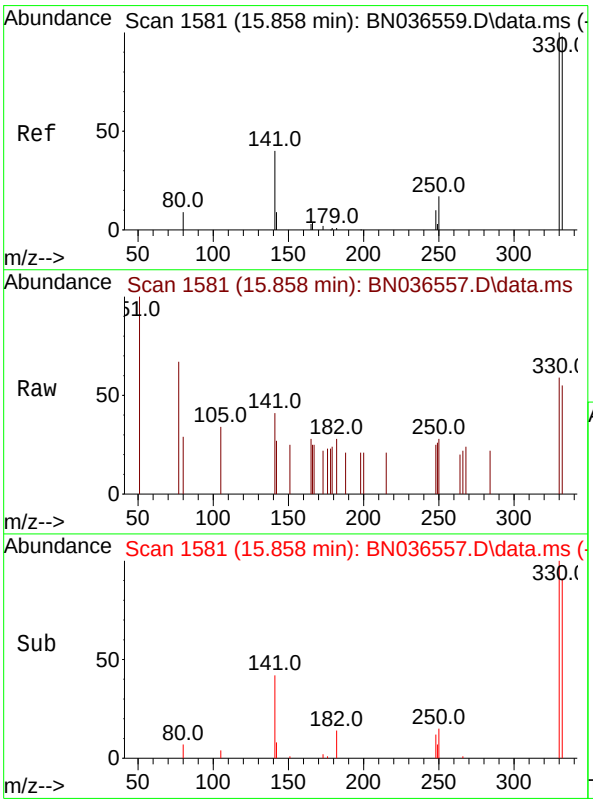
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 3958

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

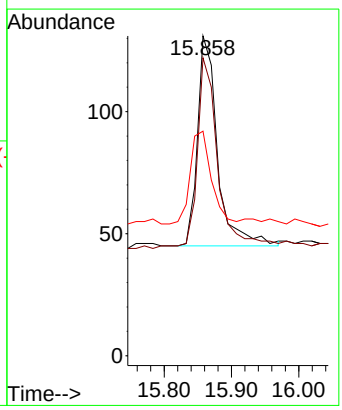


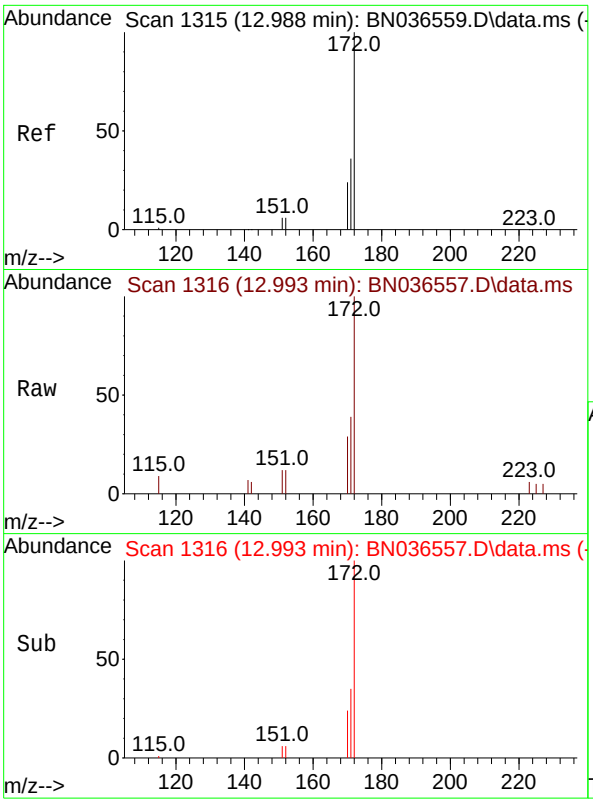


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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





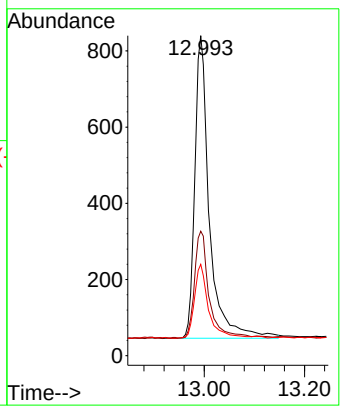
#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1

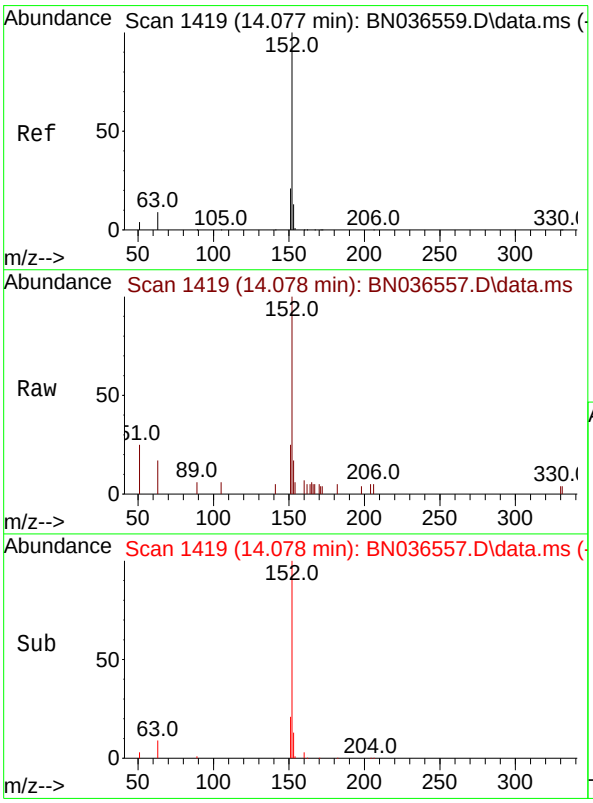
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:172 Resp: 2185

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

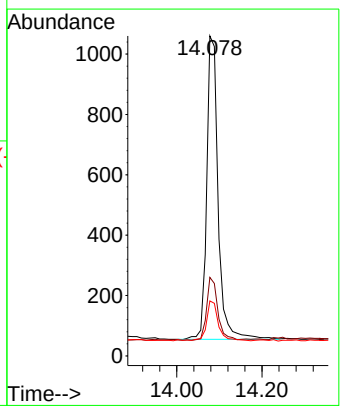


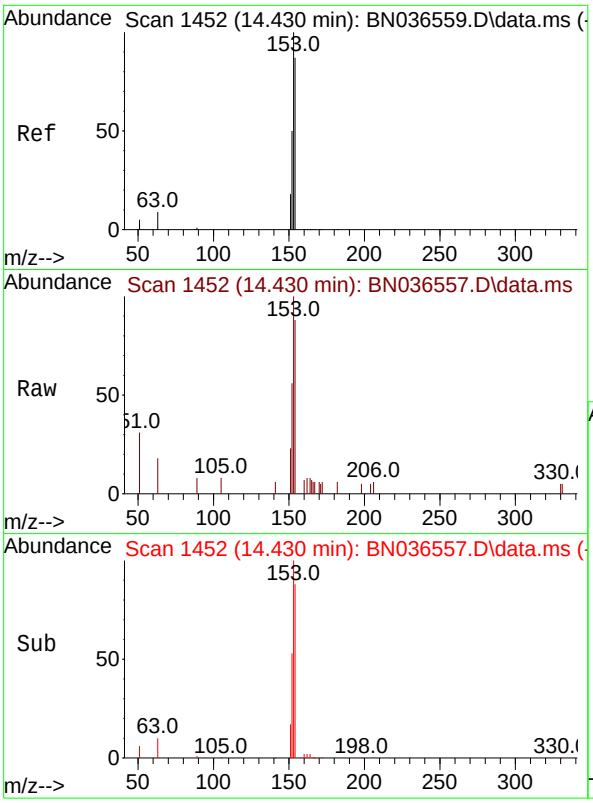


#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



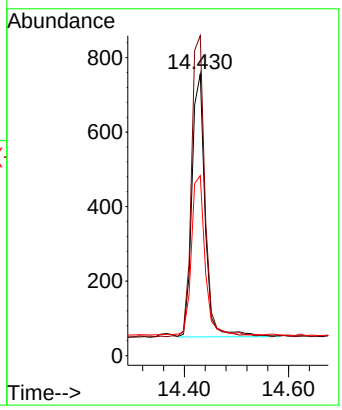


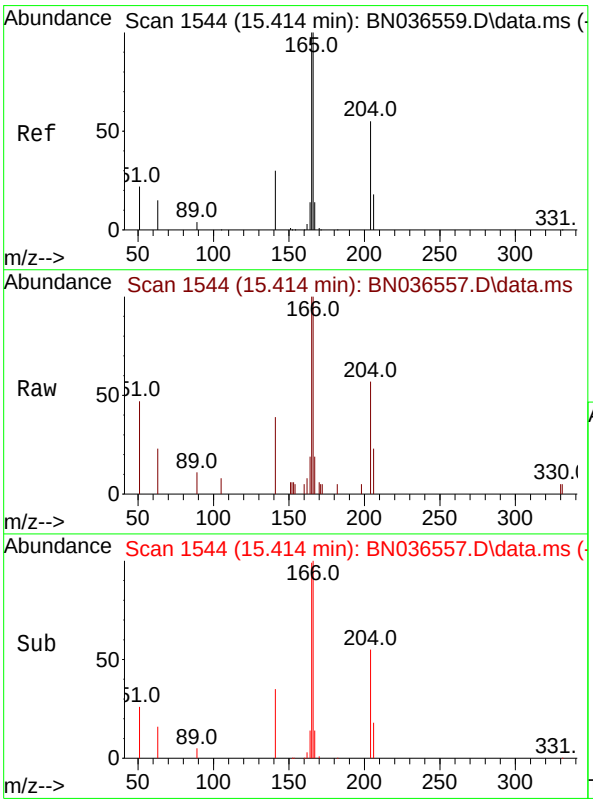
#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1244

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

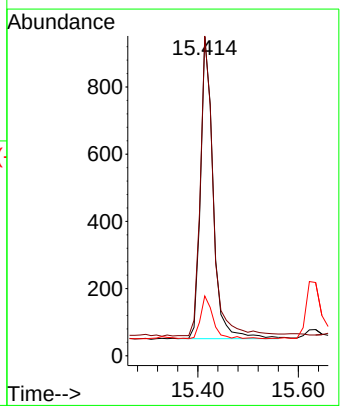


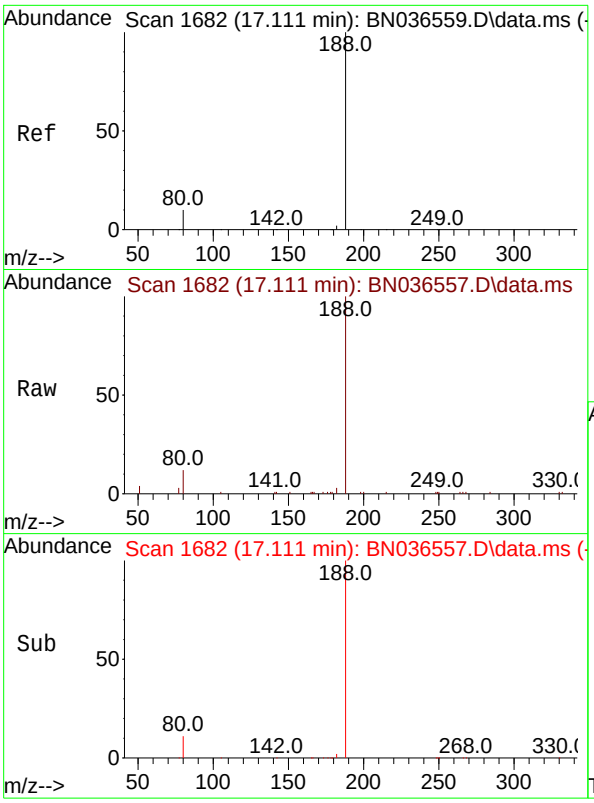


#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



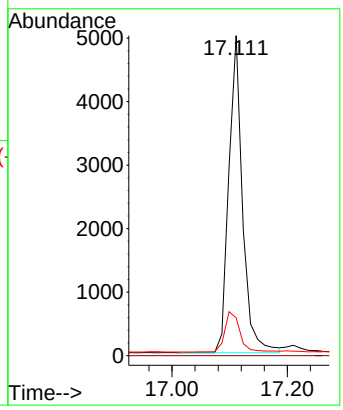


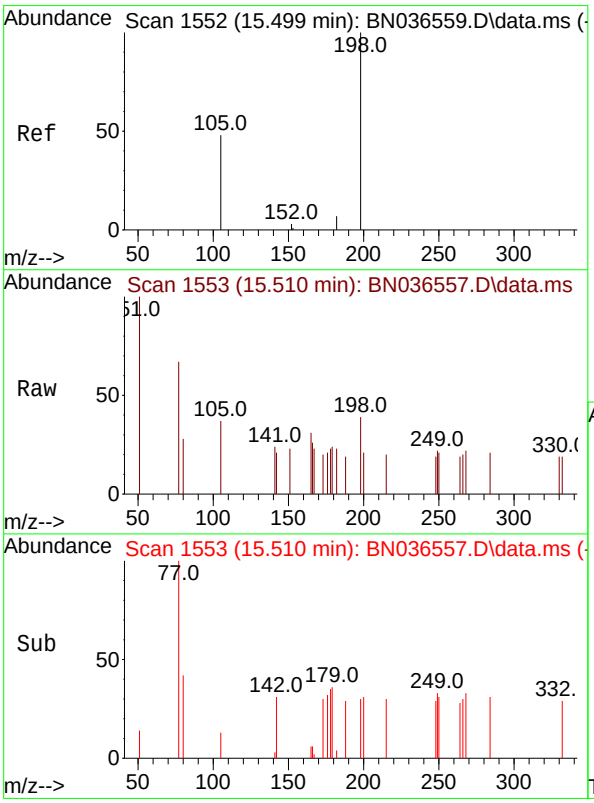
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 8269

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

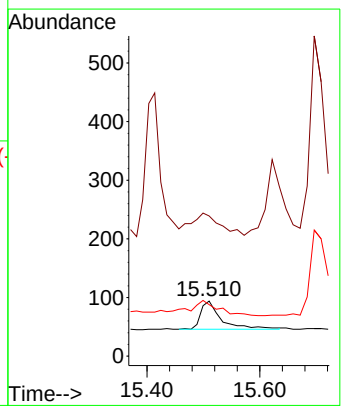


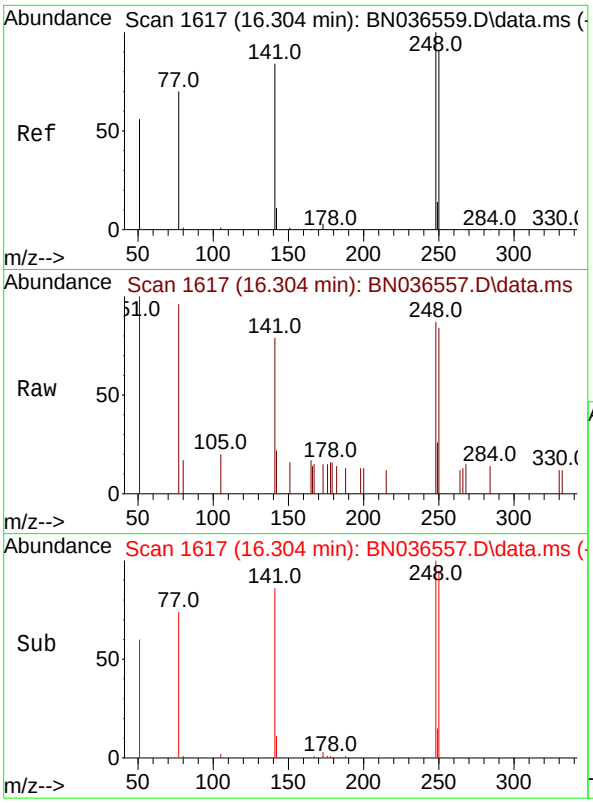


#20
4,6-Dinitro-2-methylphenol
Concen: 0.204 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:198 Resp: 122

Ion	Ratio	Lower	Upper
198	100		
51	254.3	107.9	161.9#
105	93.6	56.2	84.2#



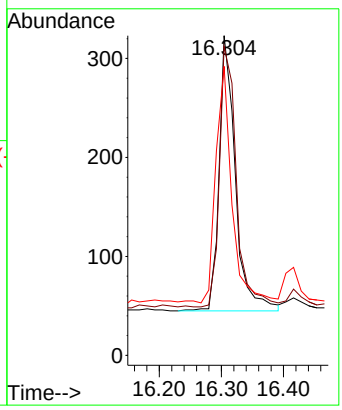


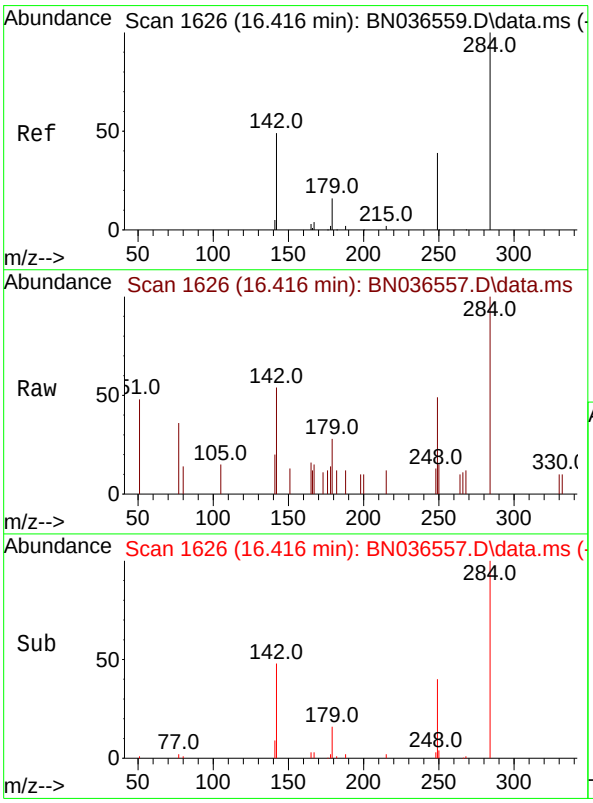
#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

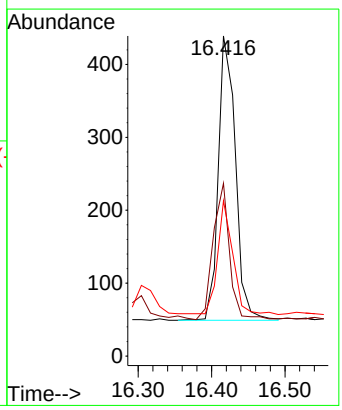


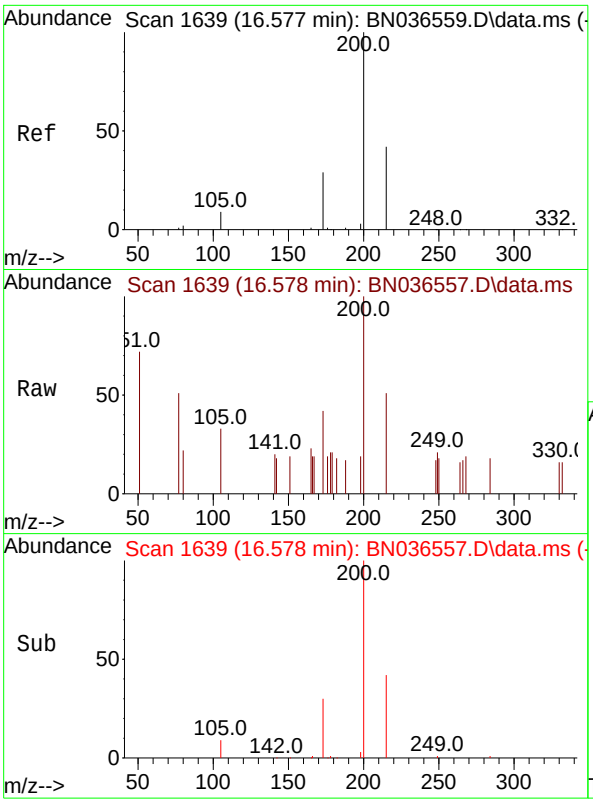


#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284 Resp: 632

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



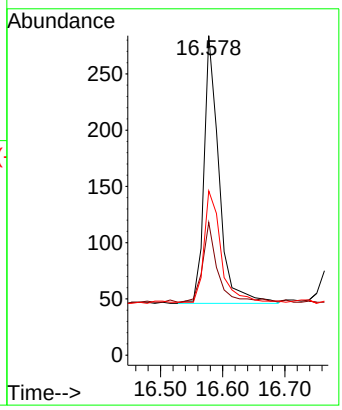


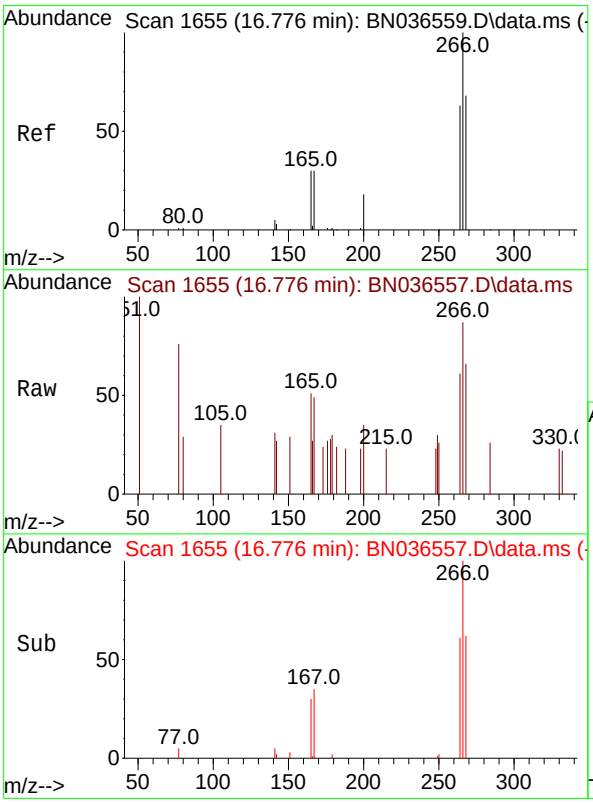
#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

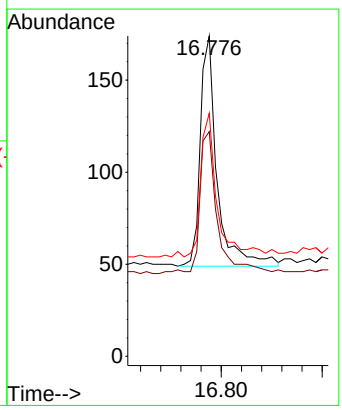


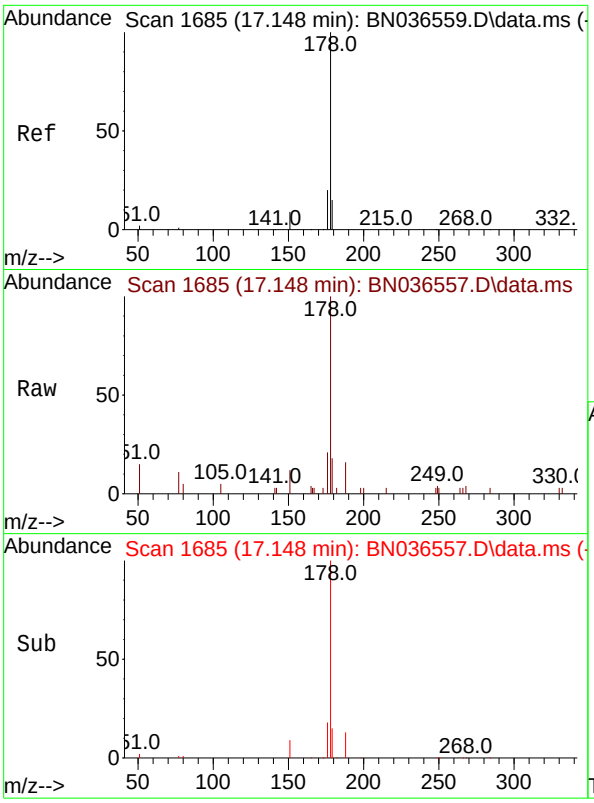


#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:266 Resp: 290

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



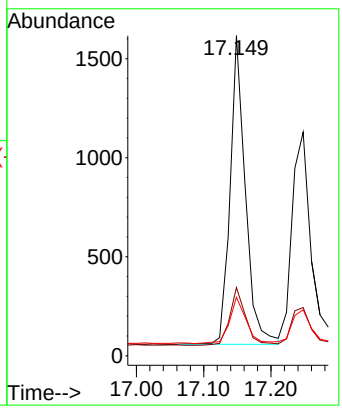


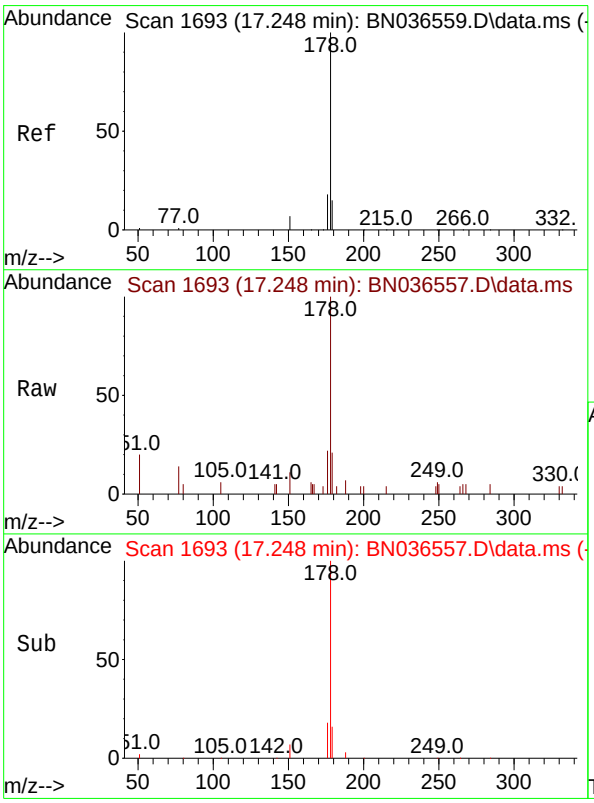
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

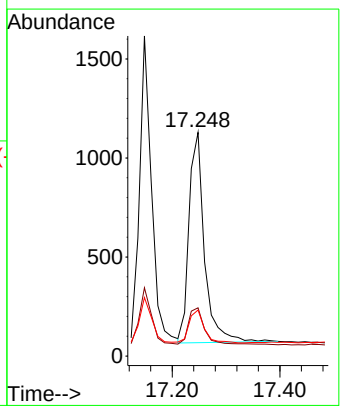


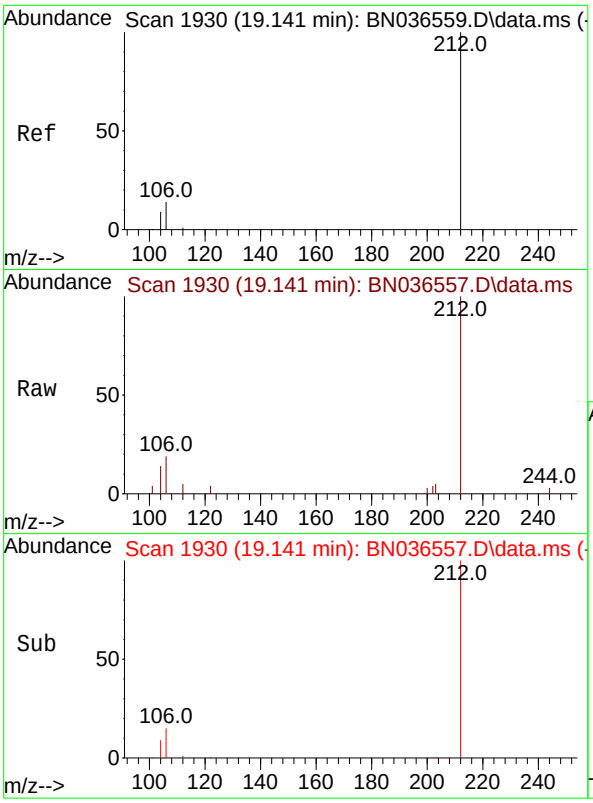


#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 2121

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



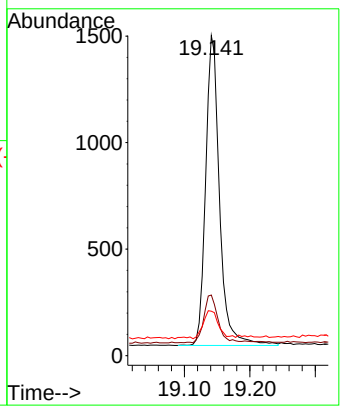


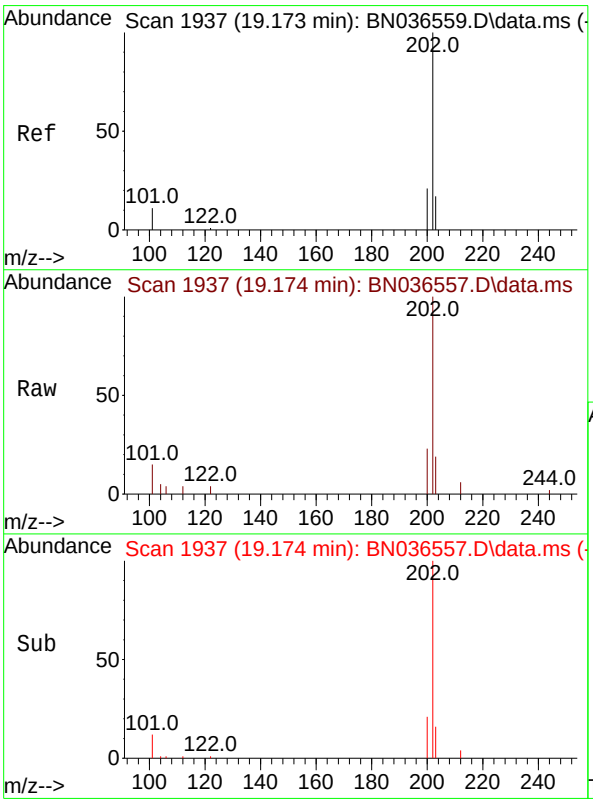
#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

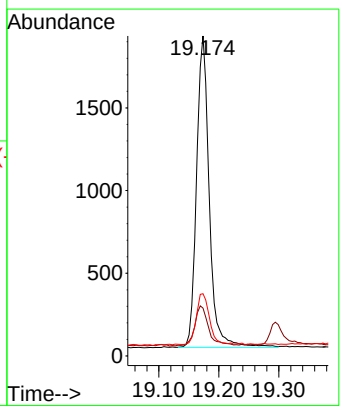


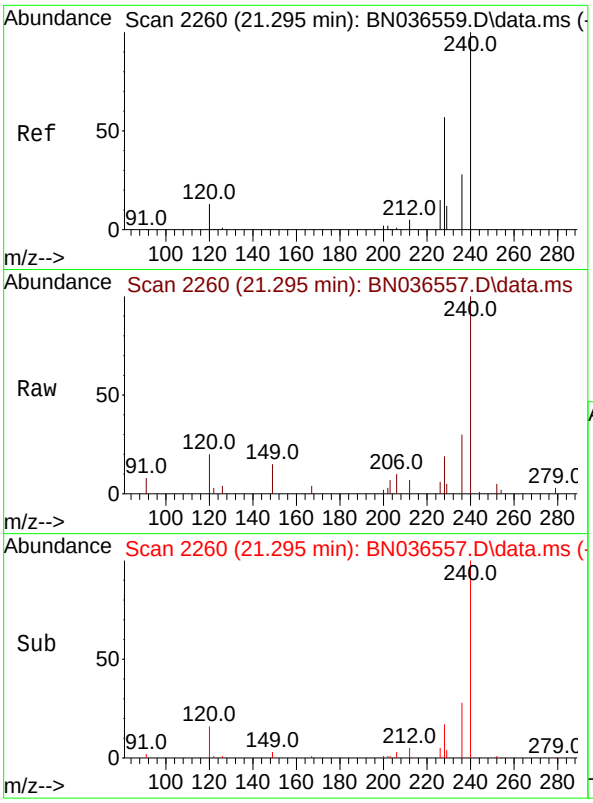


#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 2772

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



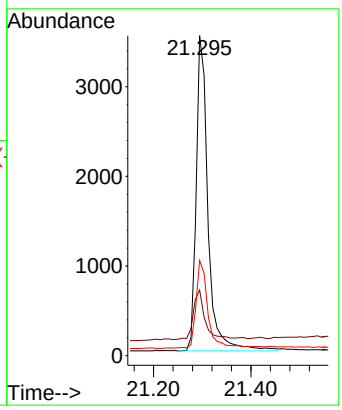


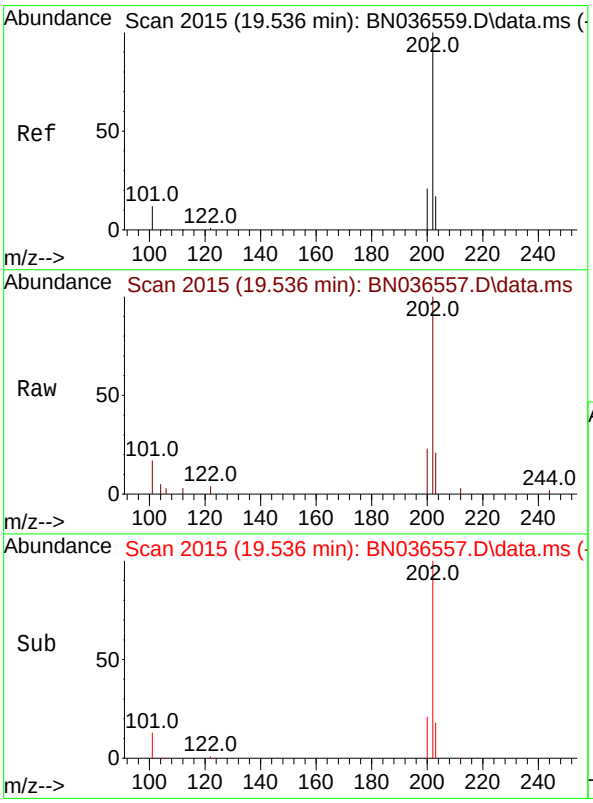
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

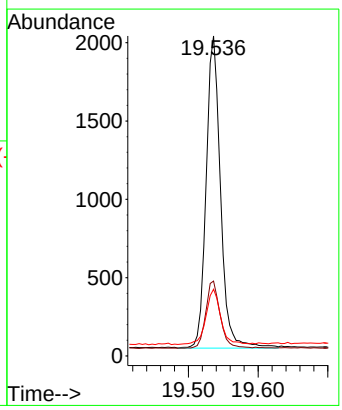


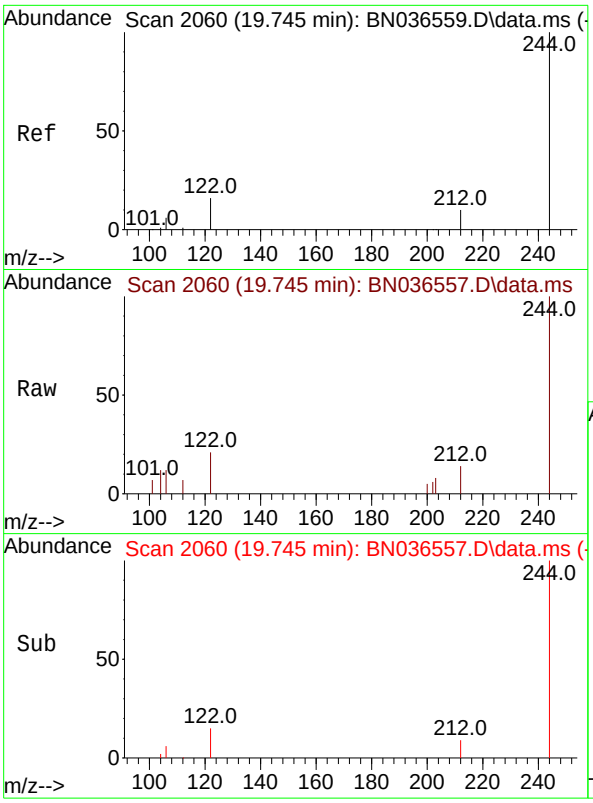


#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 2862

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



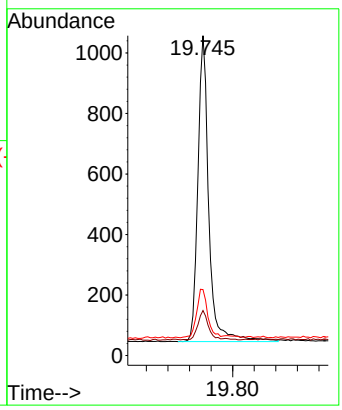


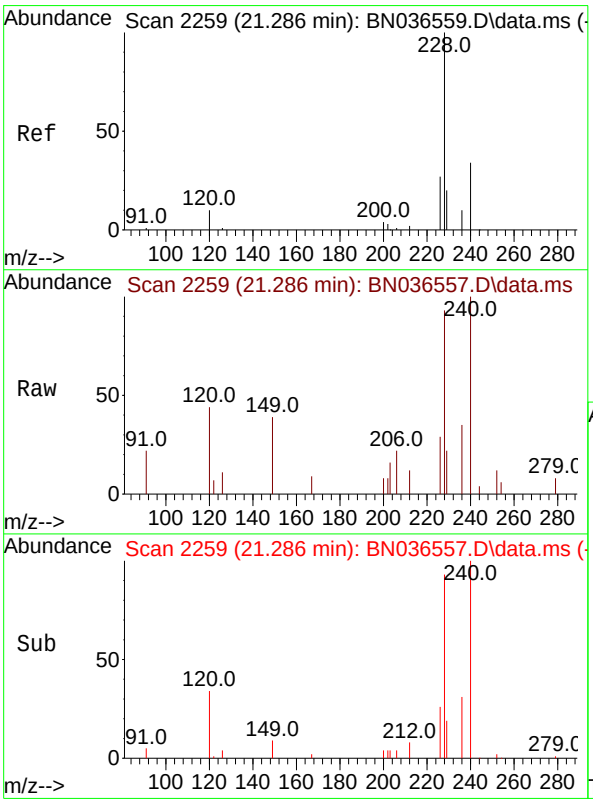
#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

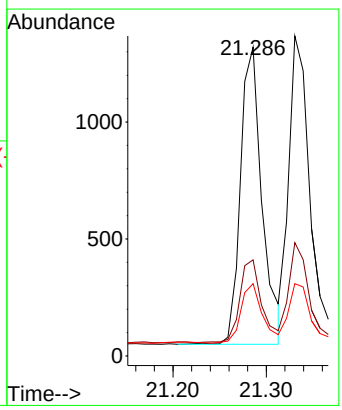


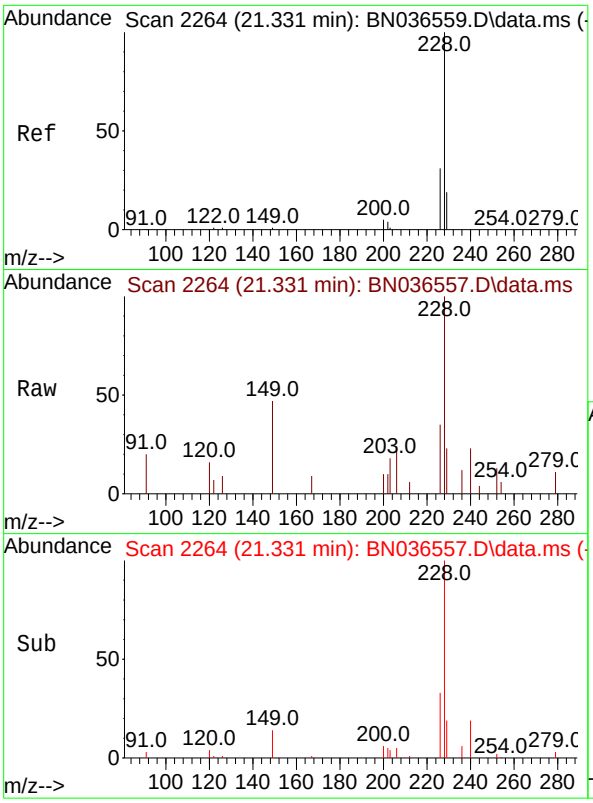


#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 2044

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



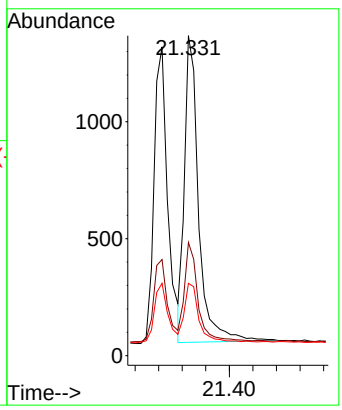


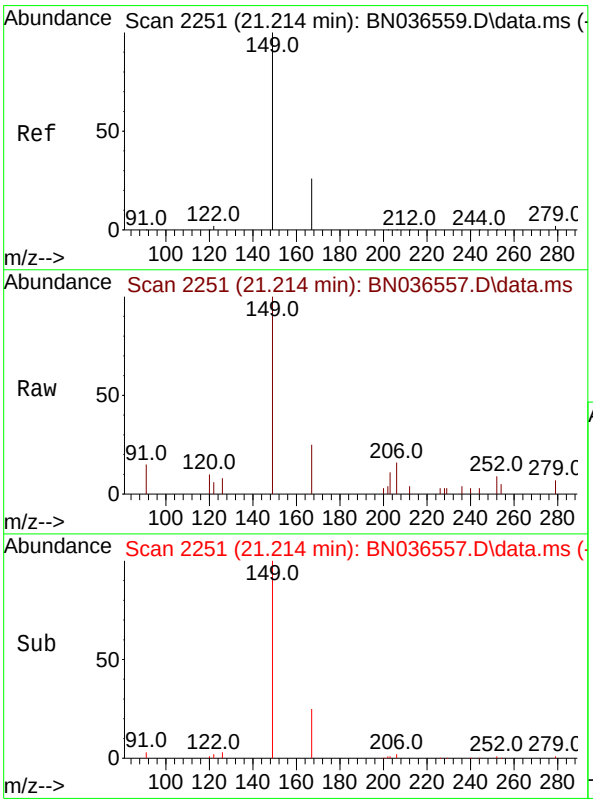
#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

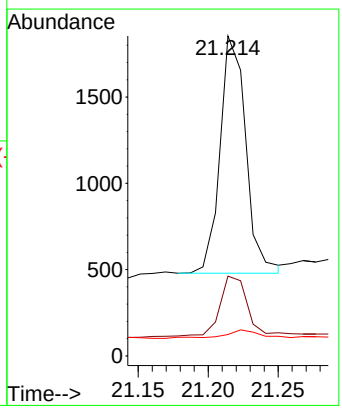


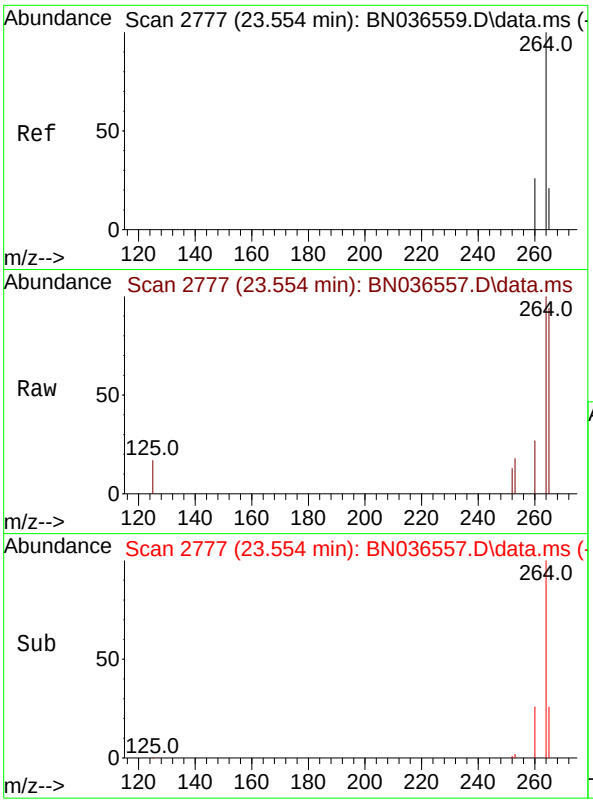


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:149 Resp: 1760

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



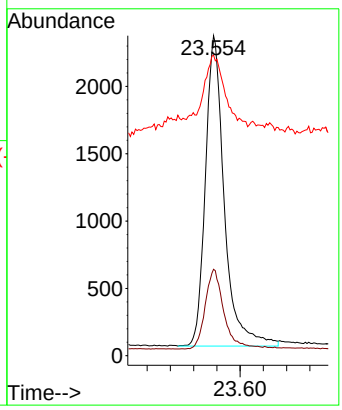


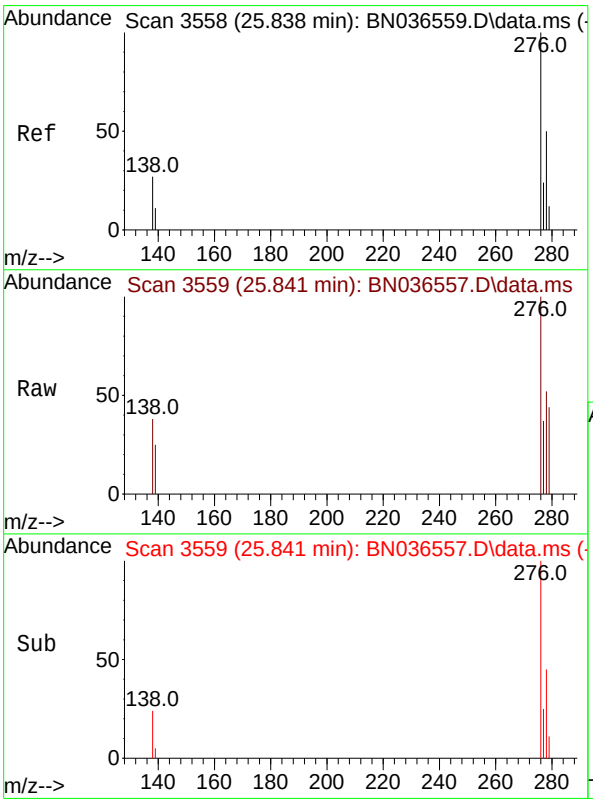
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

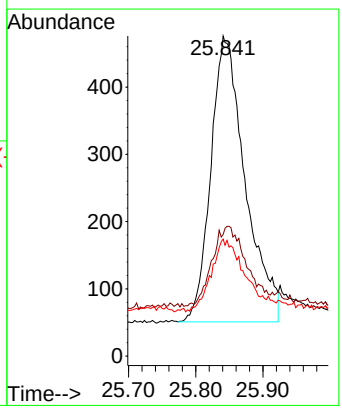


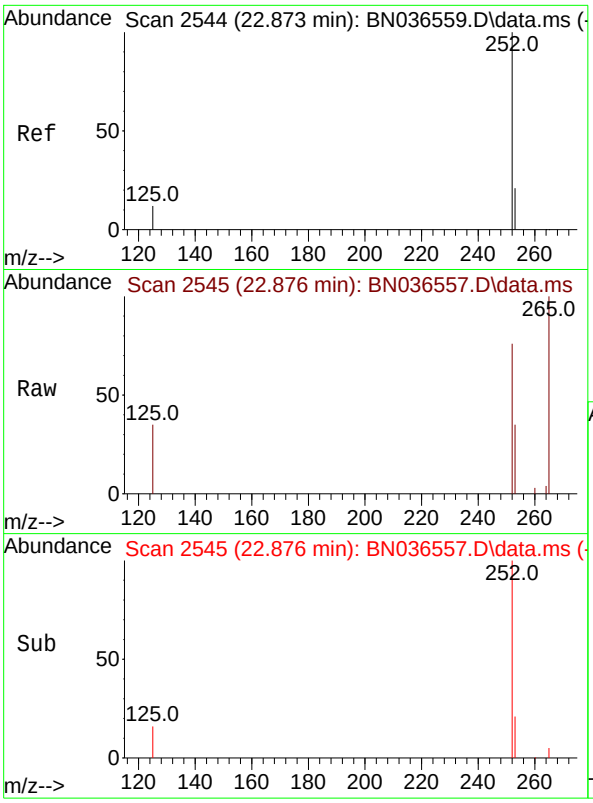


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 1510

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



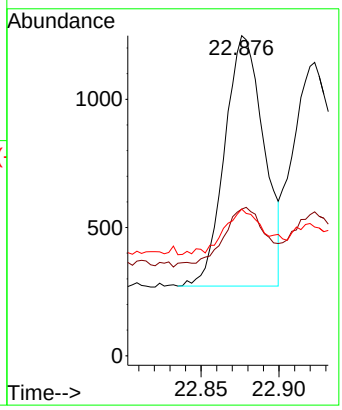


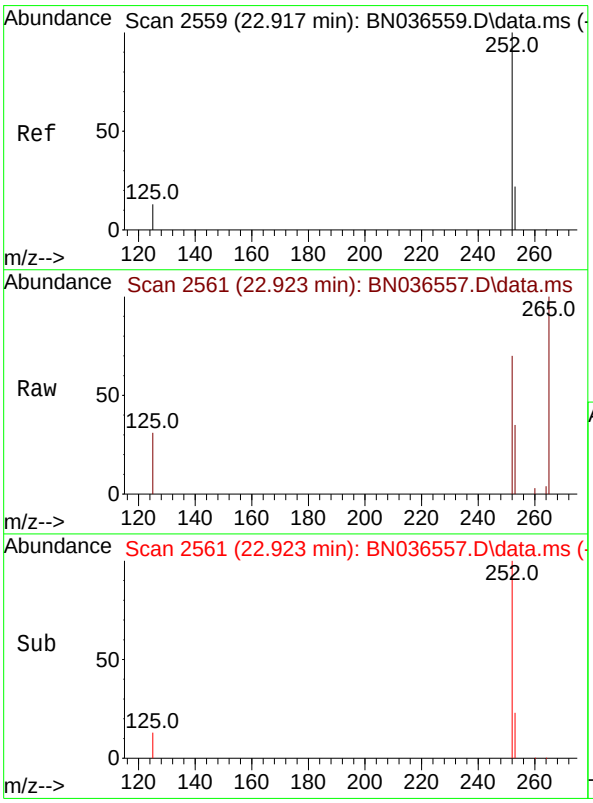
#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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#

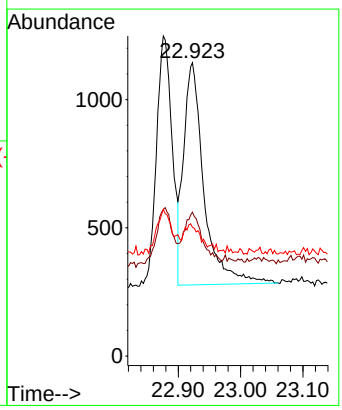


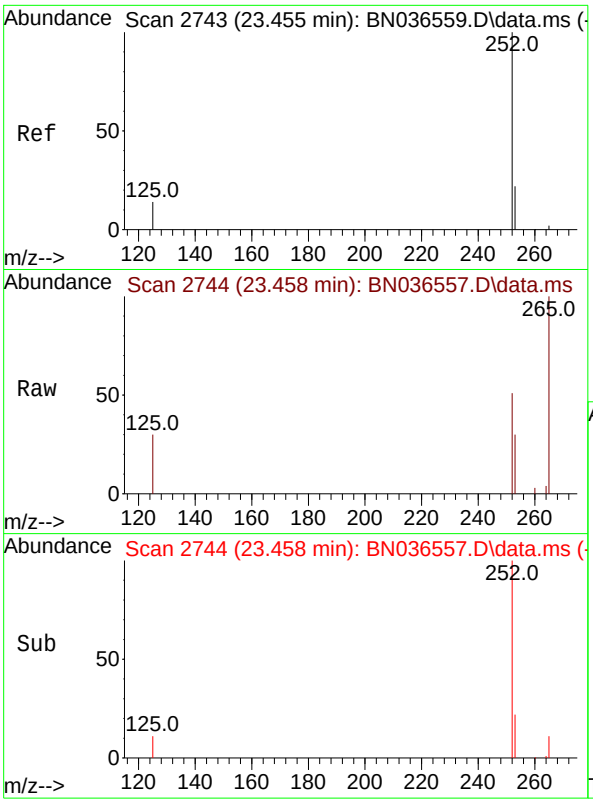


#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1958

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



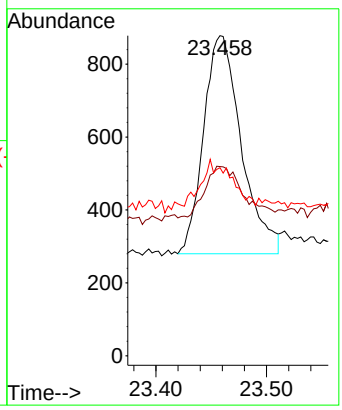


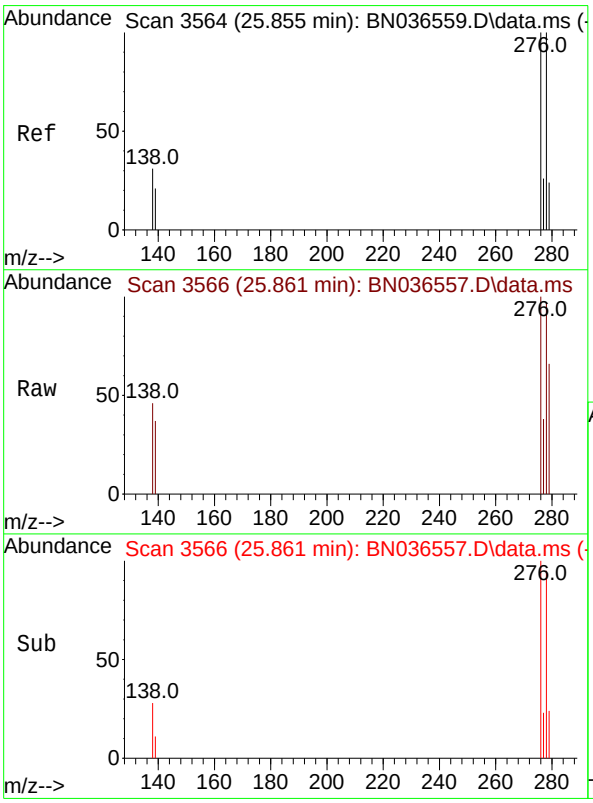
#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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#

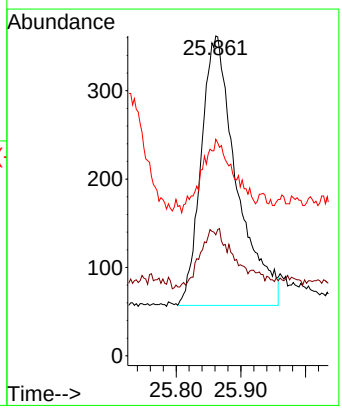


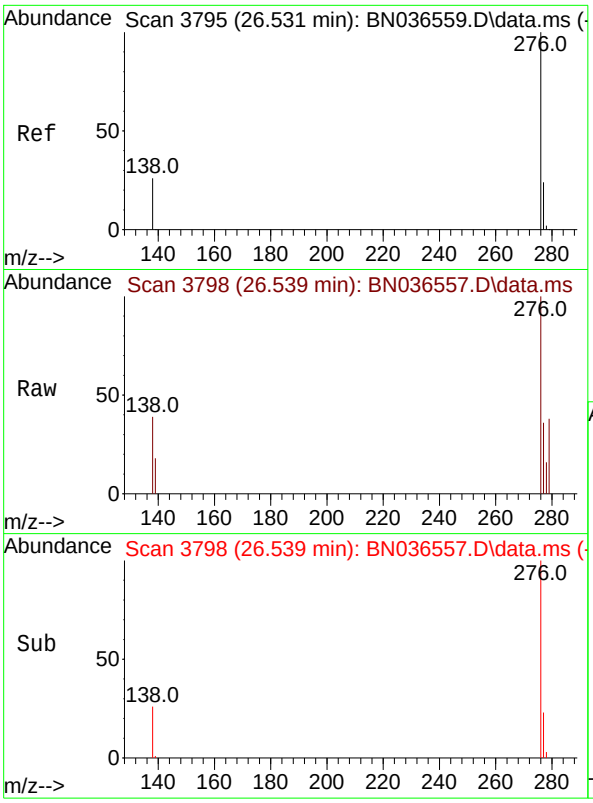


#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3566
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 1163

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



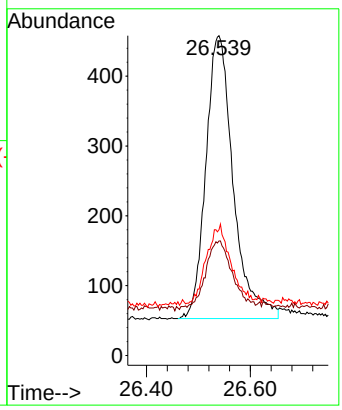


#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.539 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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#



Quantitation Report (Not Reviewed)

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

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

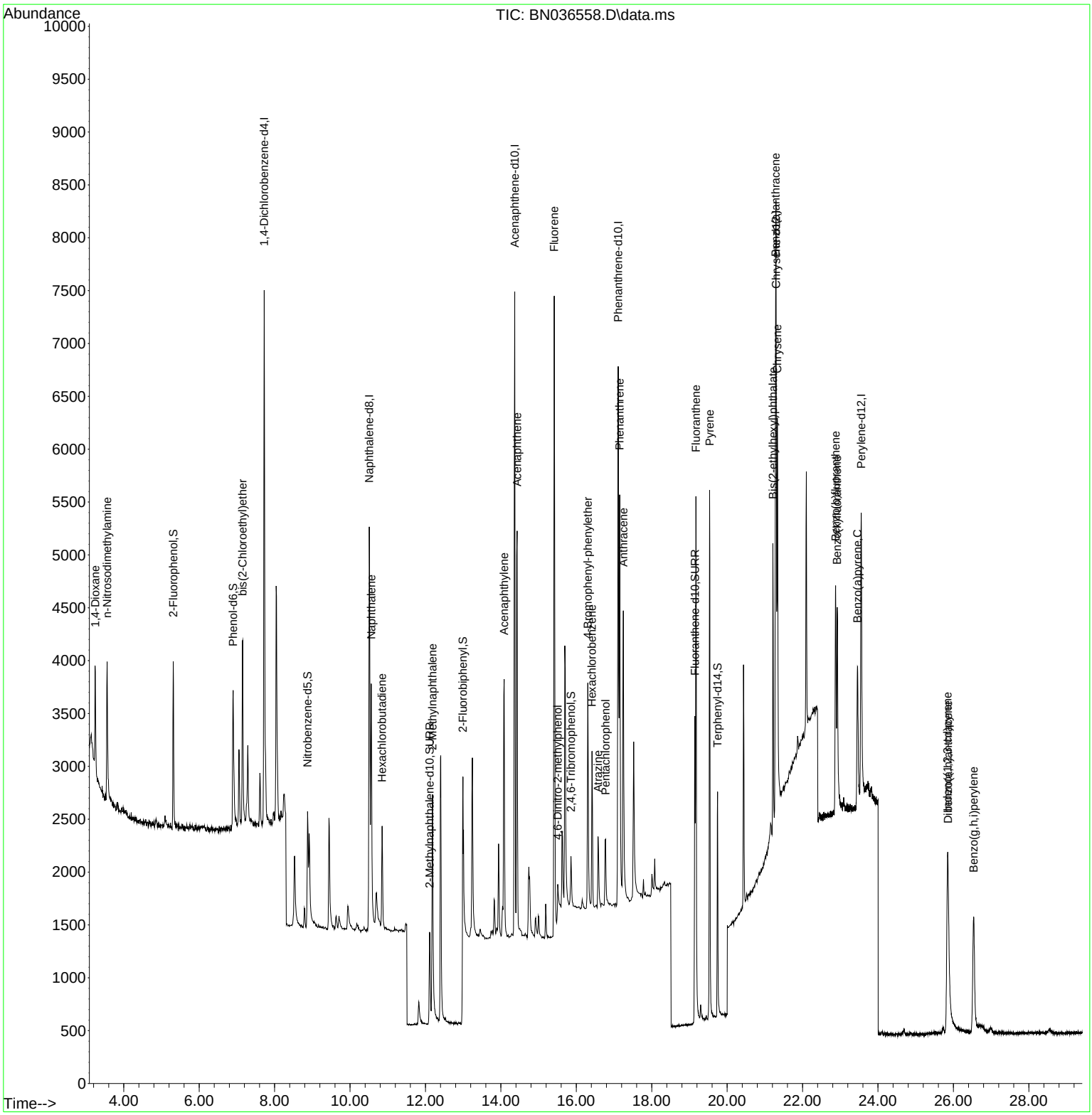
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng		0.00
29) Chrysene-d12	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	700	0.252	ng		91
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

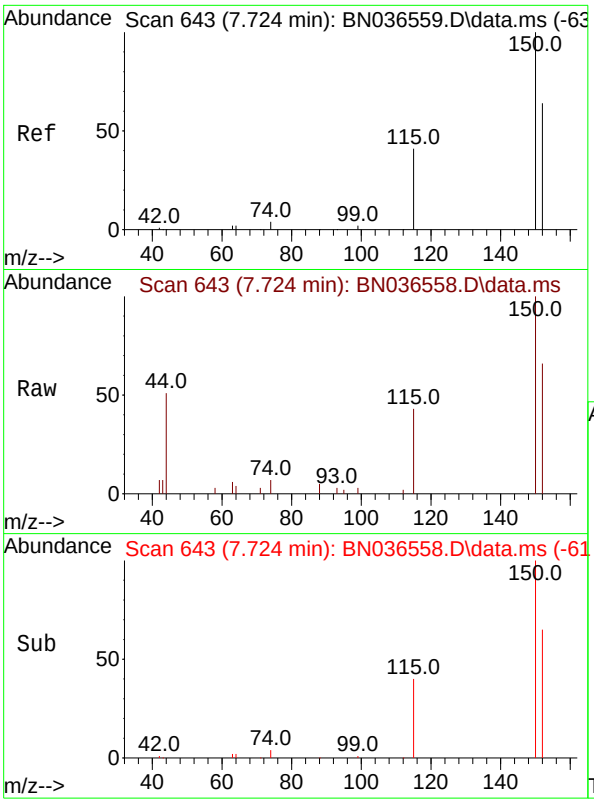
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

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



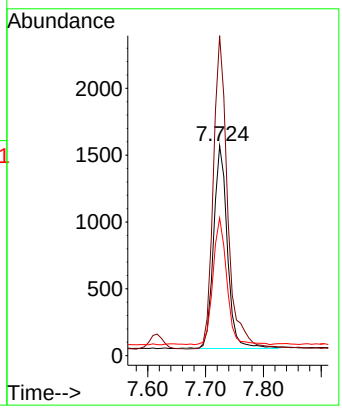


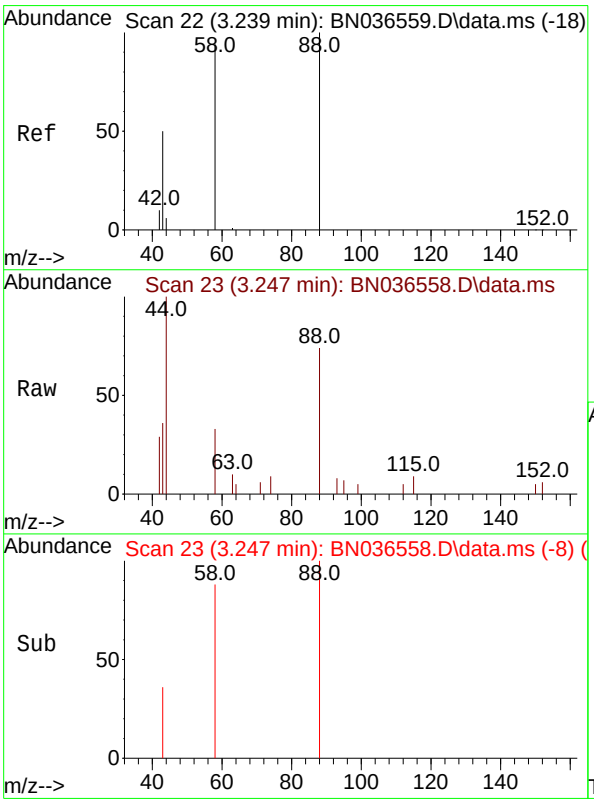
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2504

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

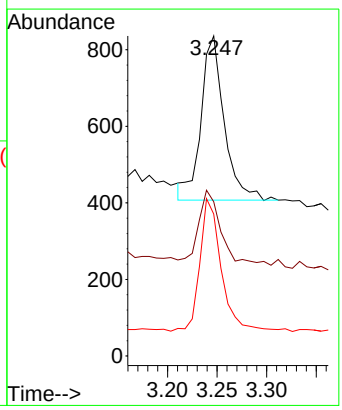


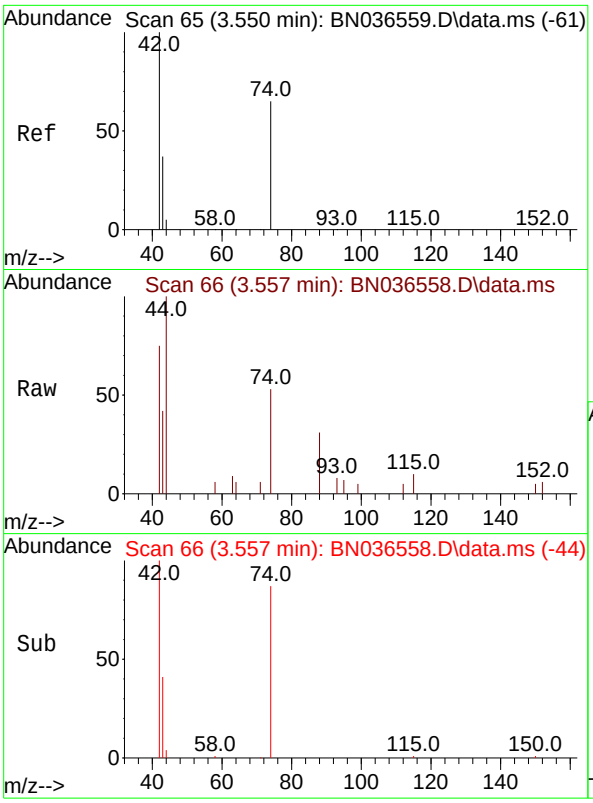


#2
1,4-Dioxane
Concen: 0.252 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 700

Ion	Ratio	Lower	Upper
88	100		
43	44.4	37.8	56.8
58	73.7	67.4	101.2



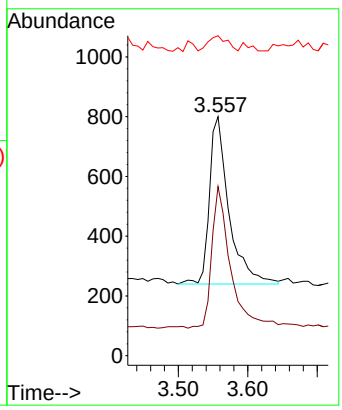


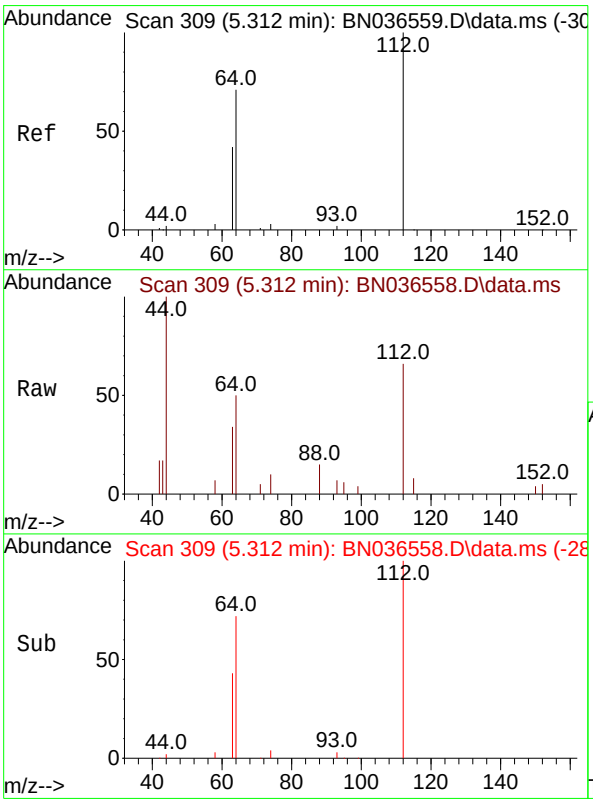
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1094

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

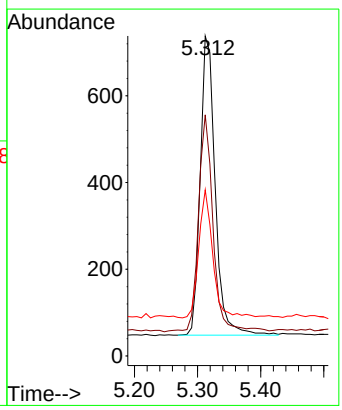


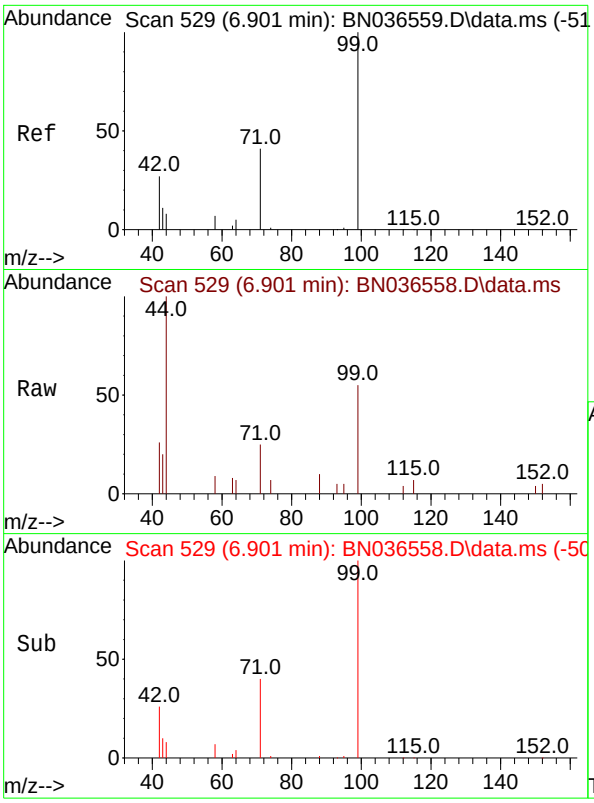


#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



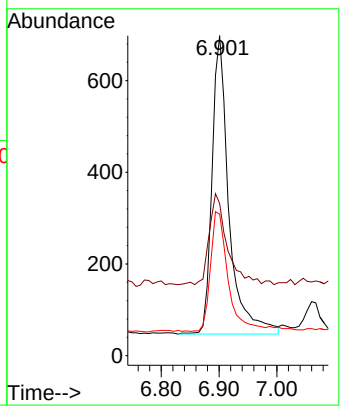


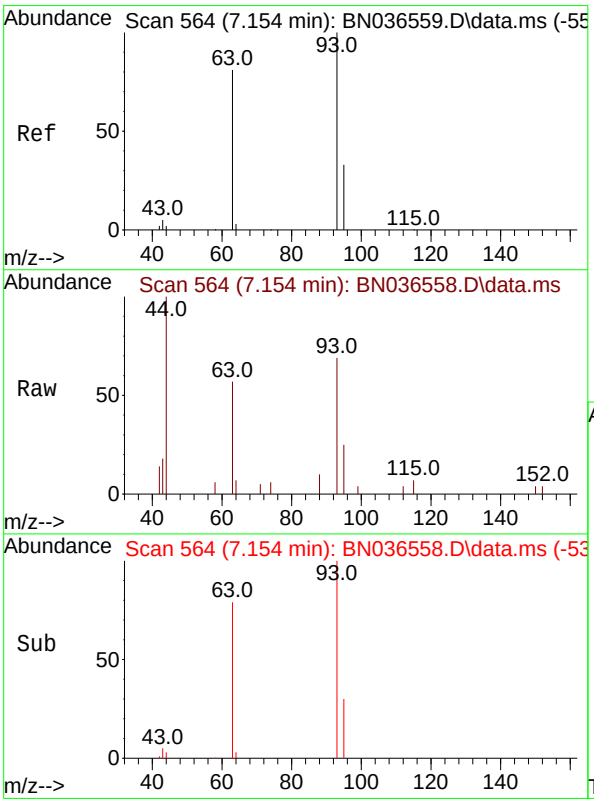
#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1323

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

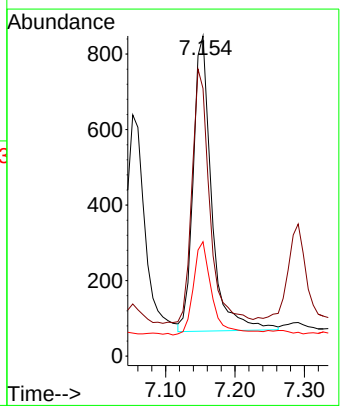


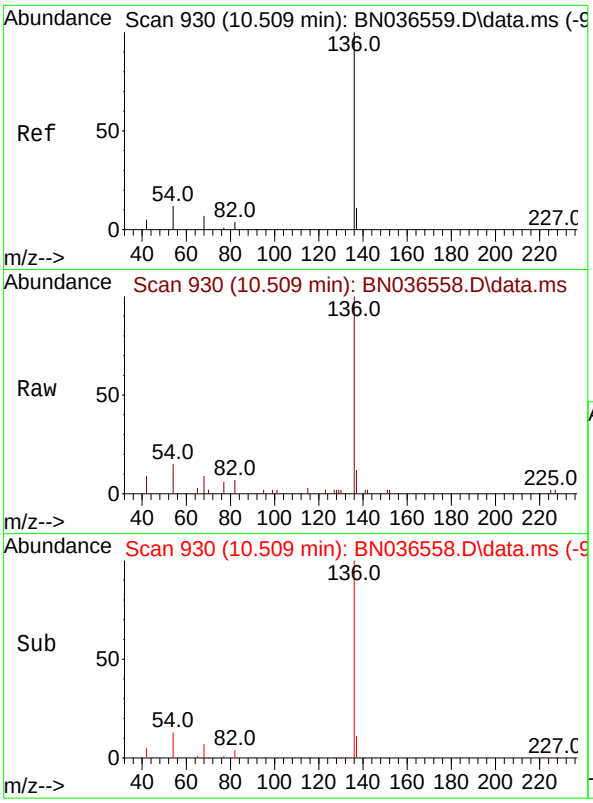


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



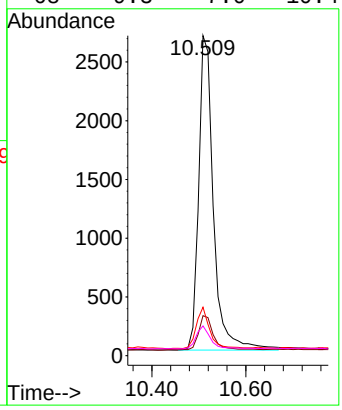


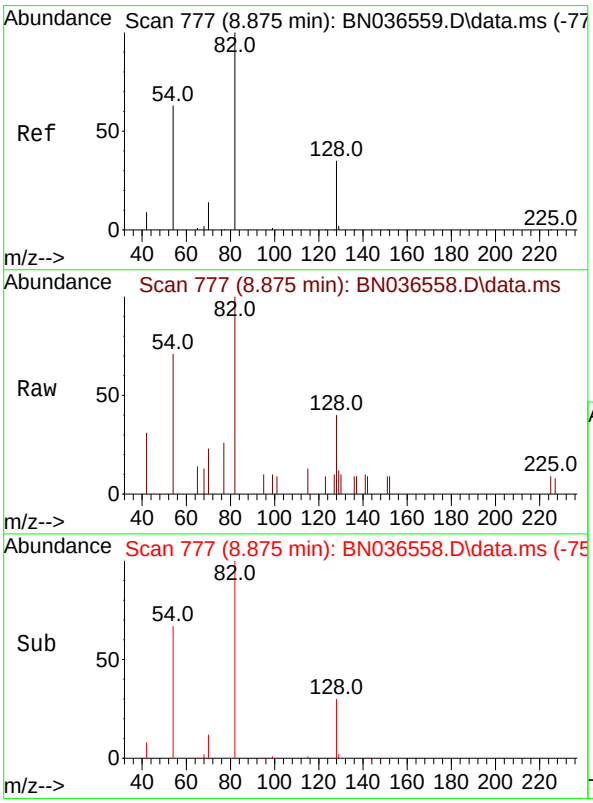
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5844

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

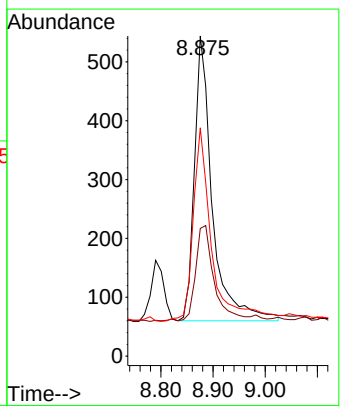


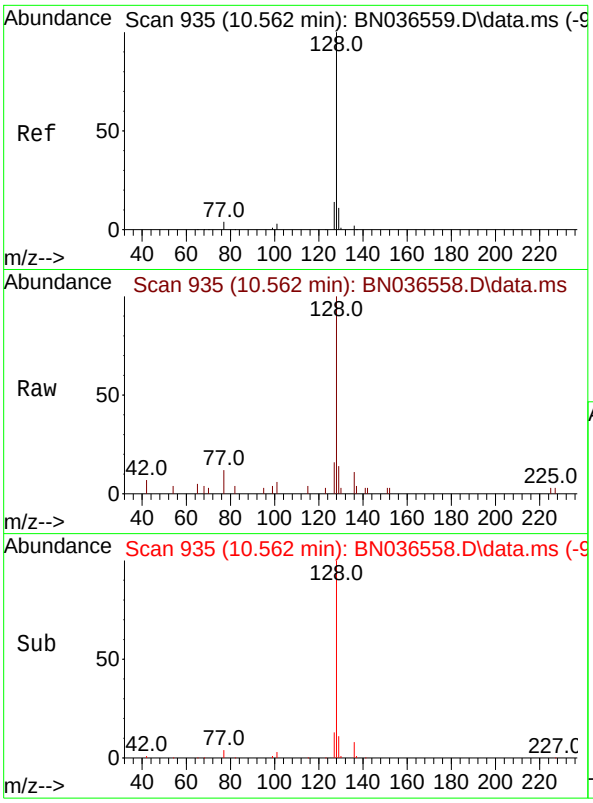


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



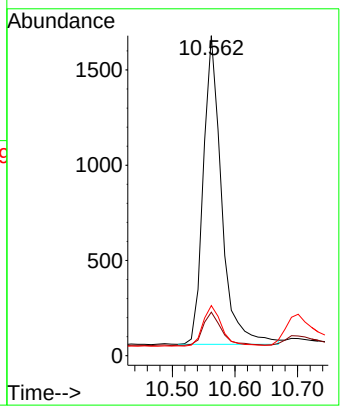


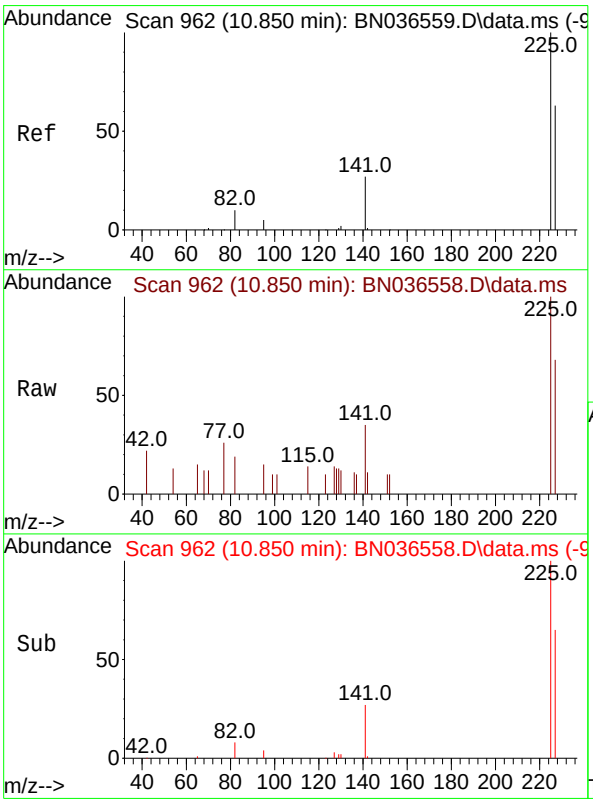
#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 3286

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

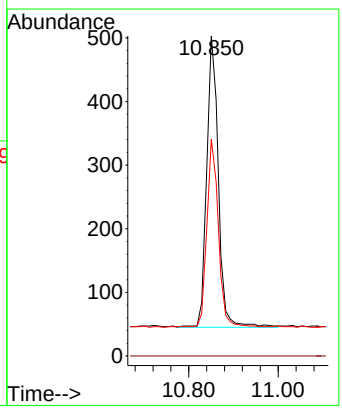


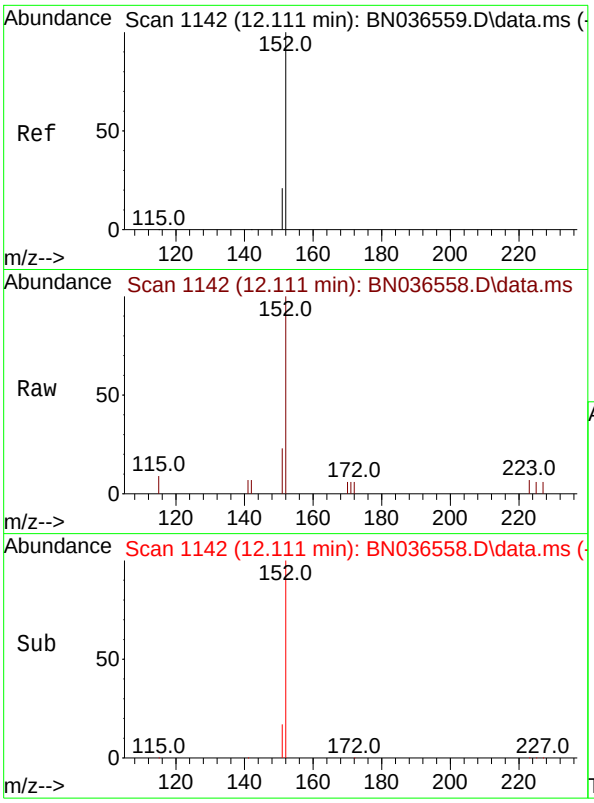


#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



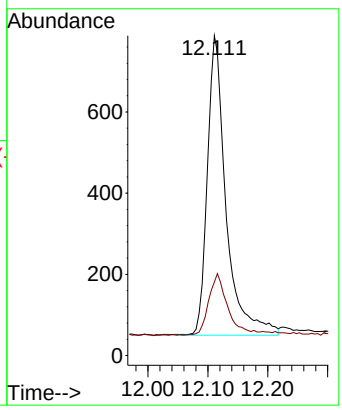


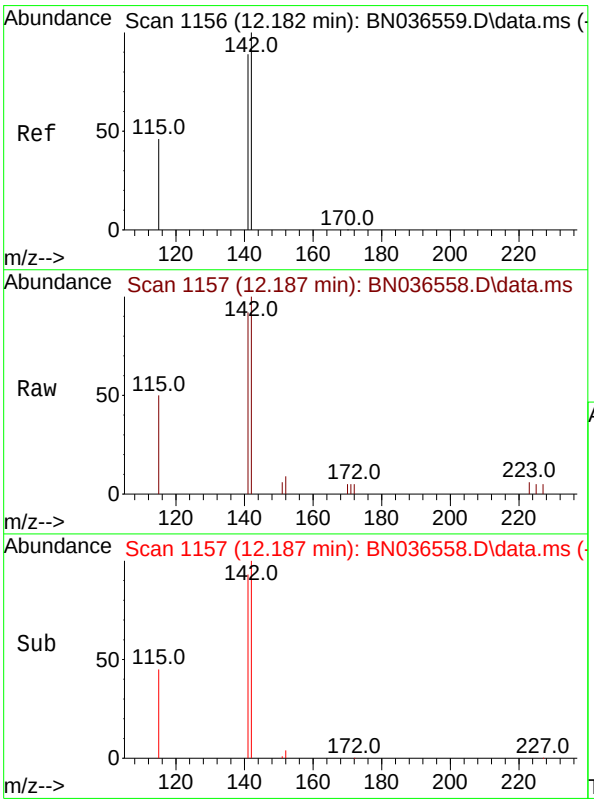
#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1603

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

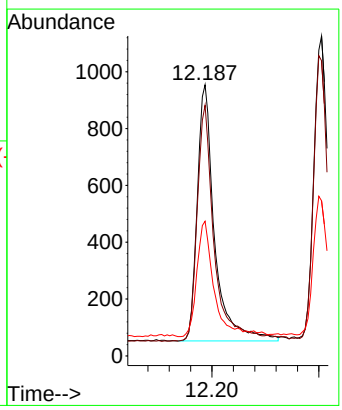


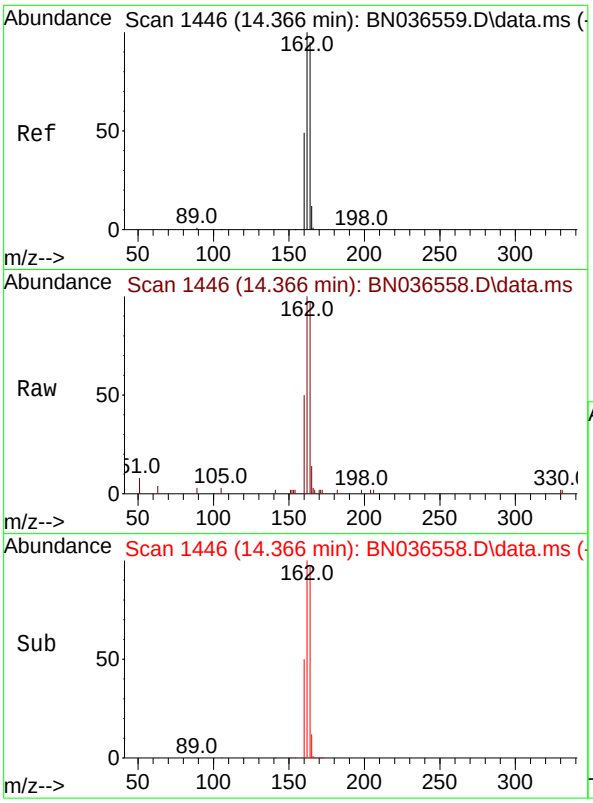


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



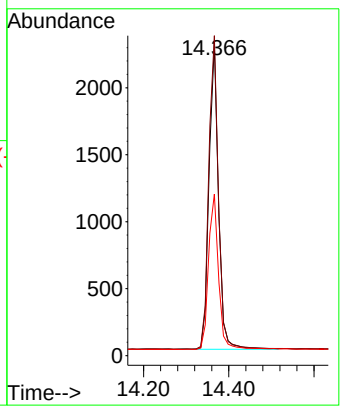


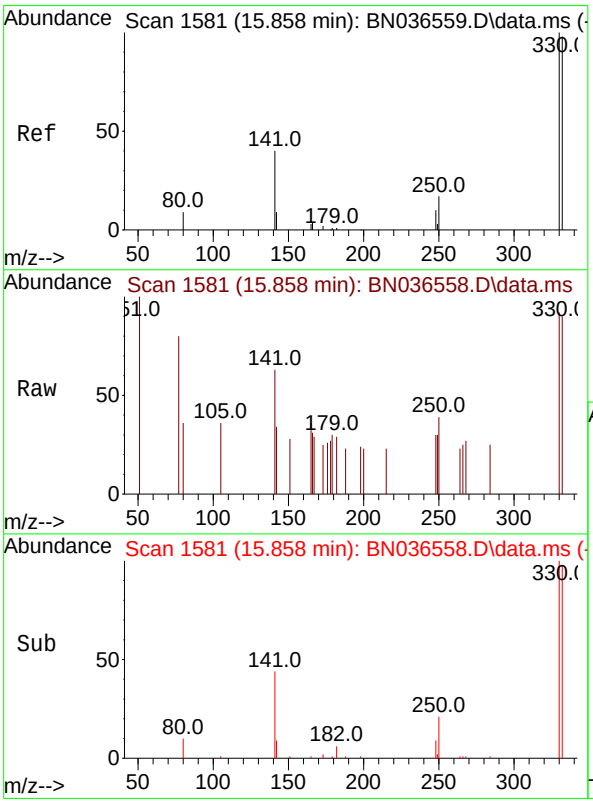
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3516

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

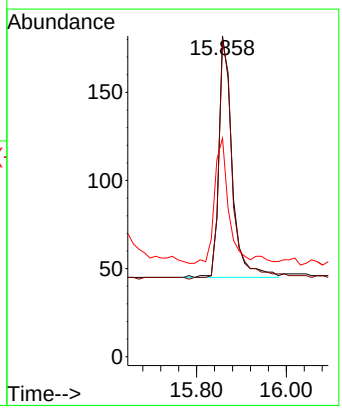


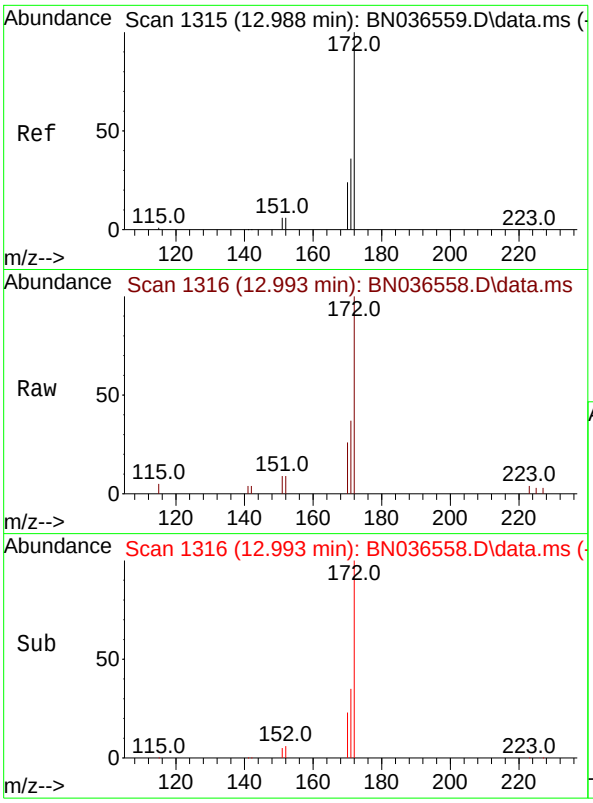


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



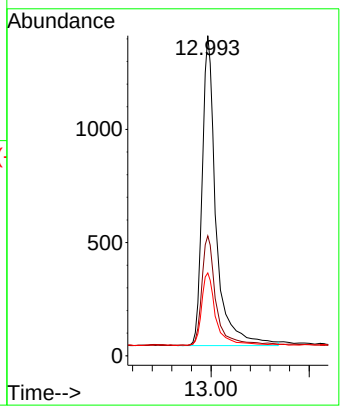


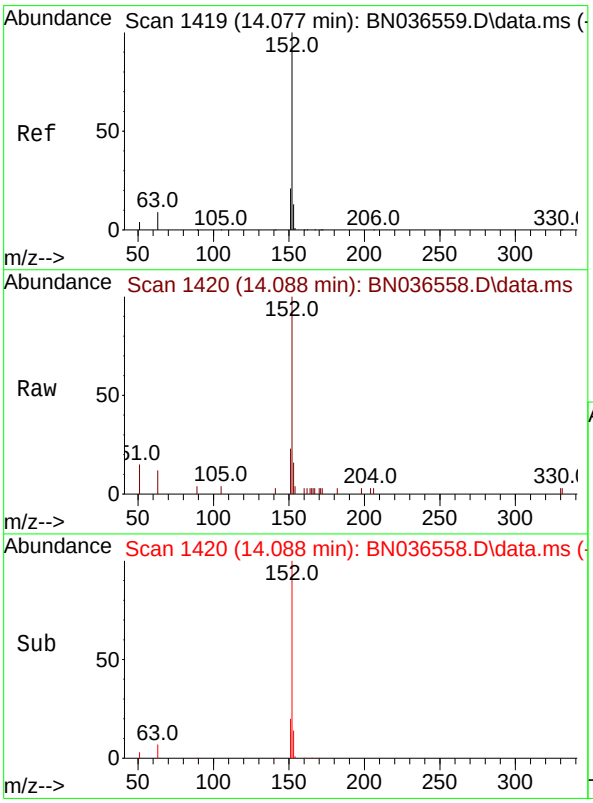
#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 3485

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

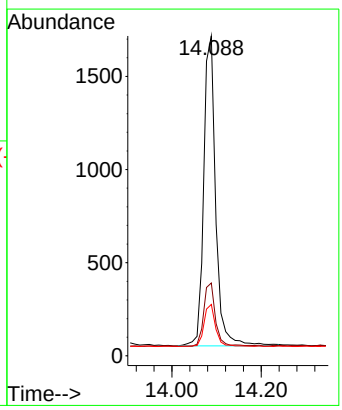


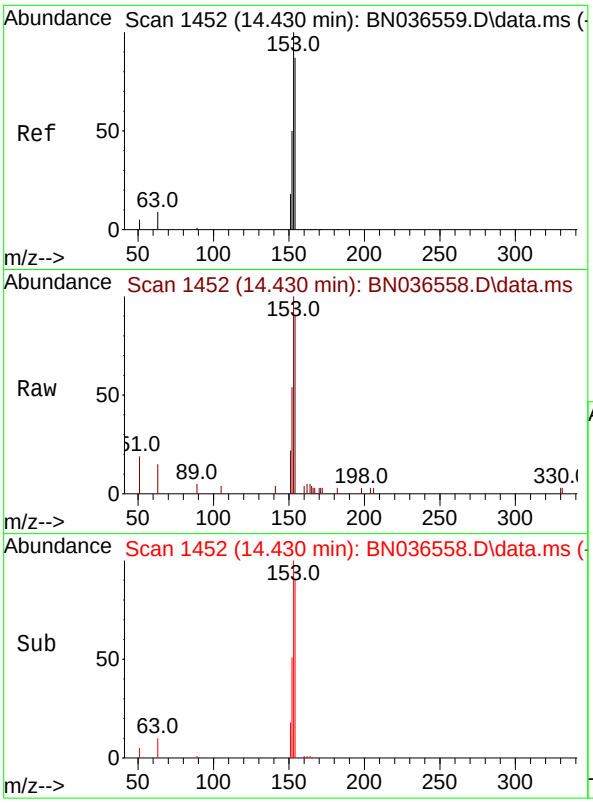


#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



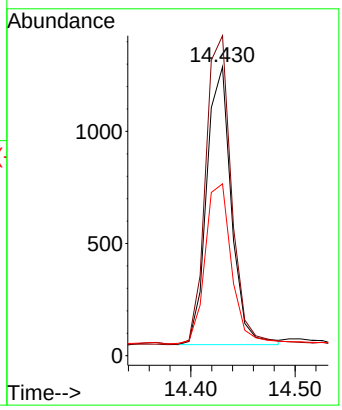


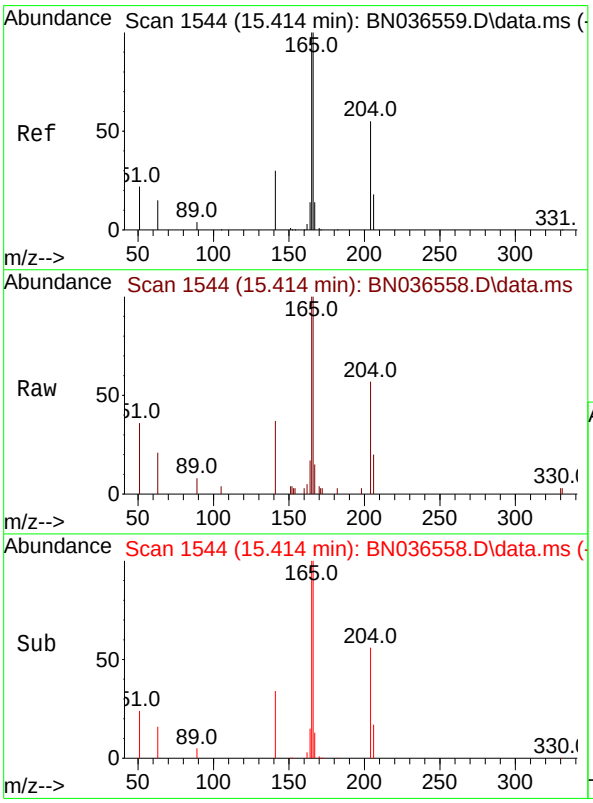
#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2038

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

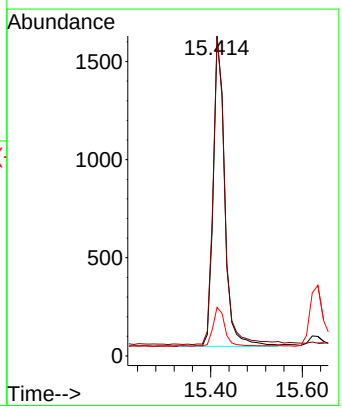


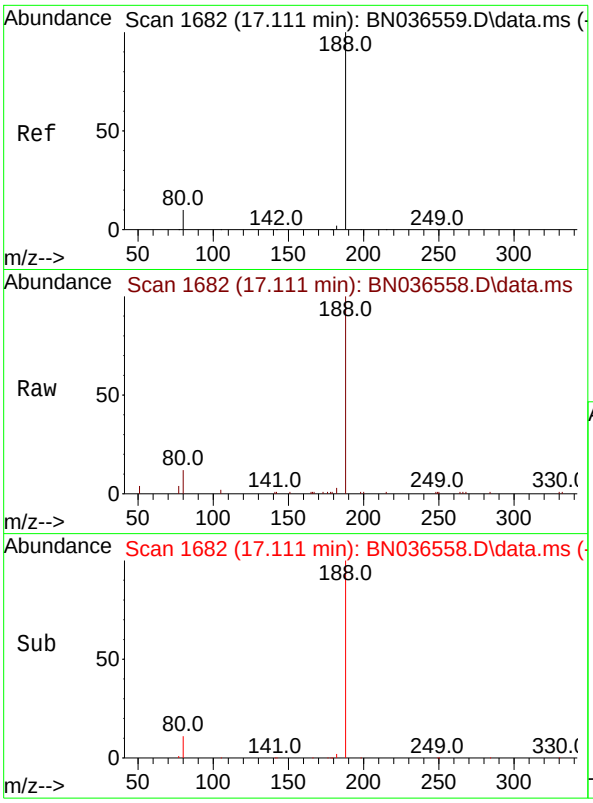


#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



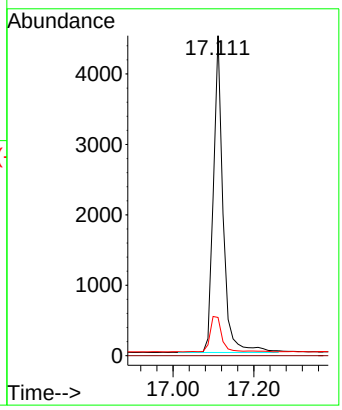


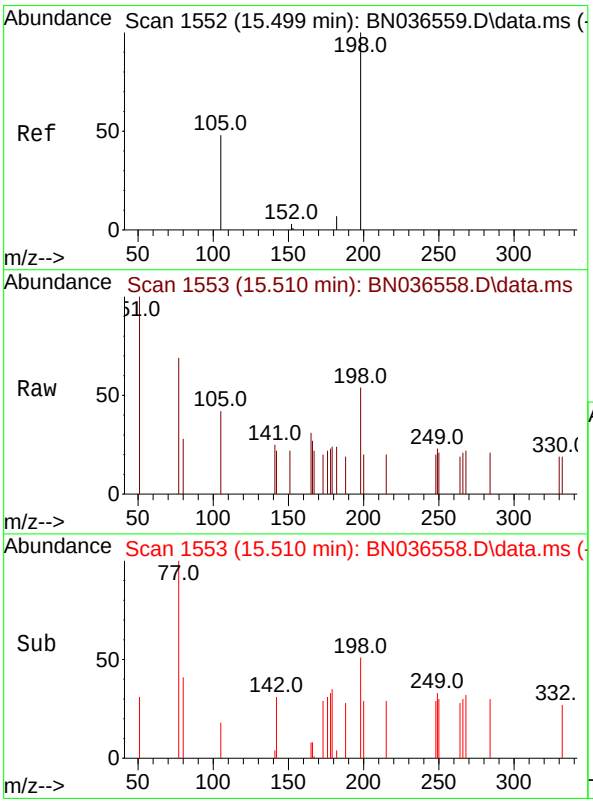
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 7506

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

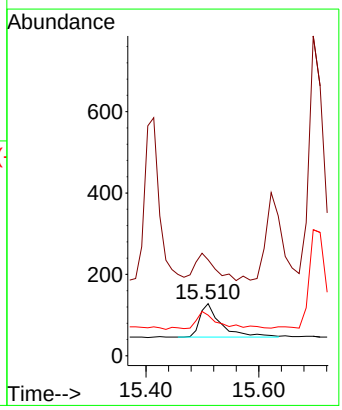


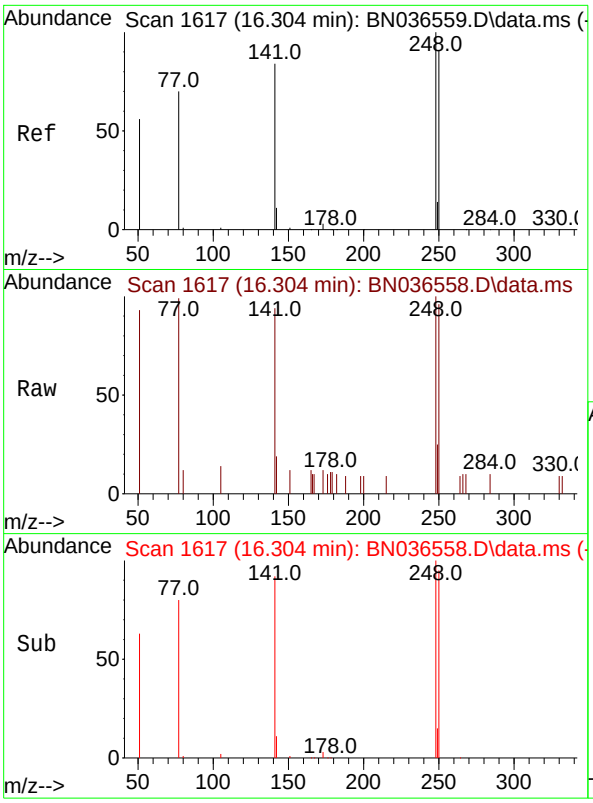


#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



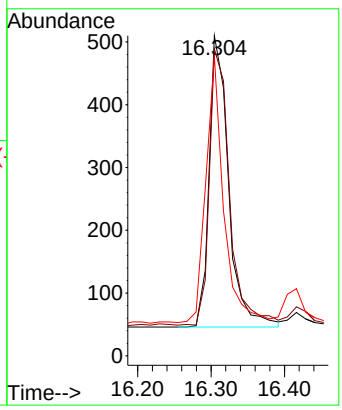


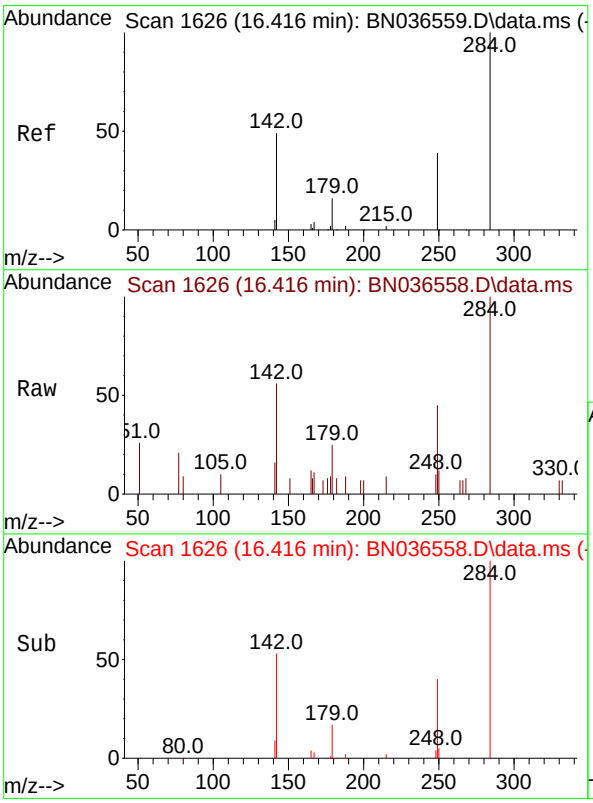
#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 853

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

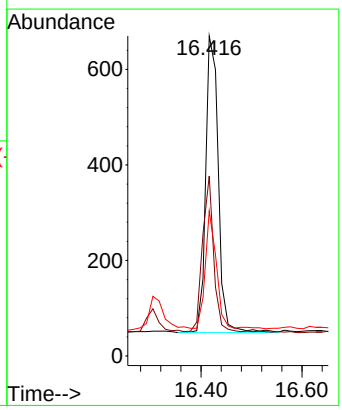


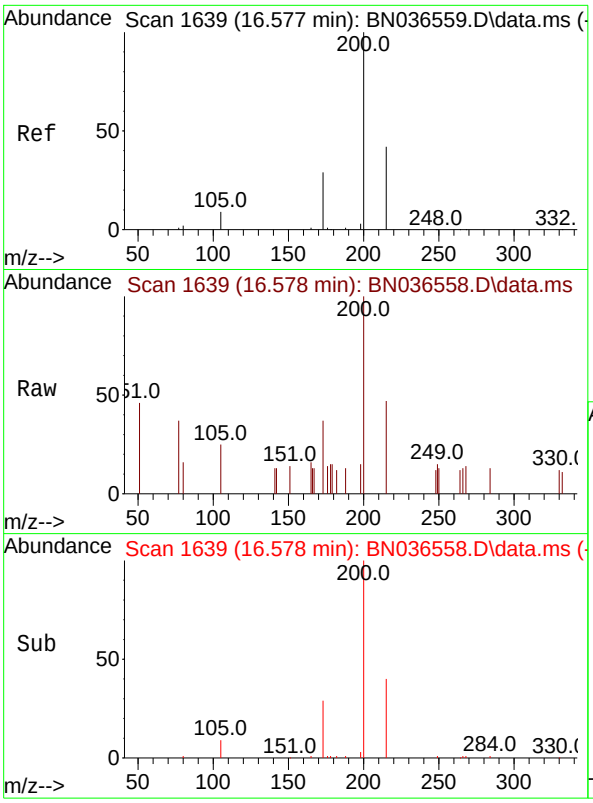


#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



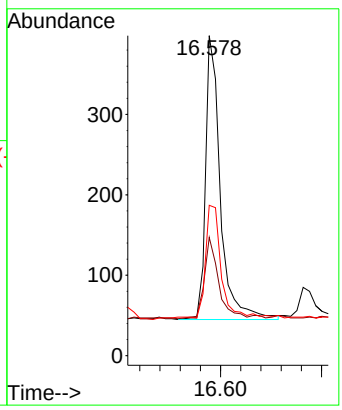


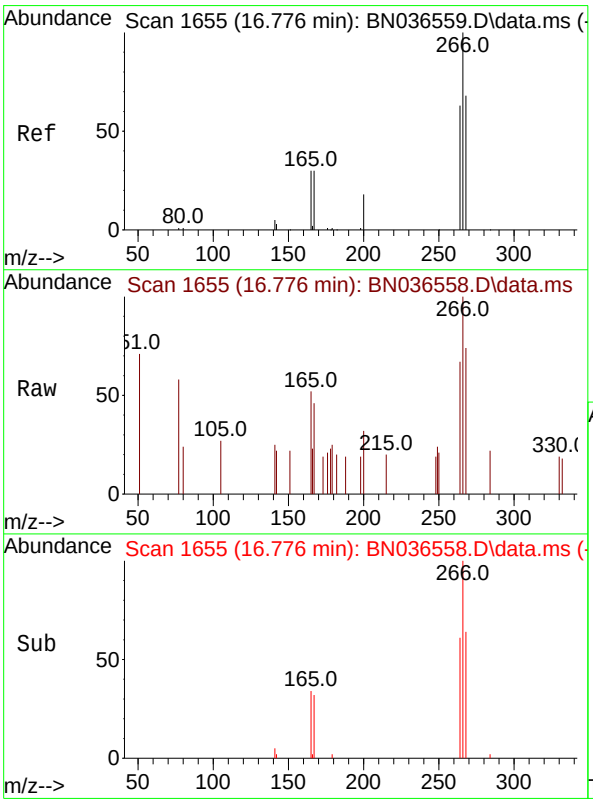
#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 716

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

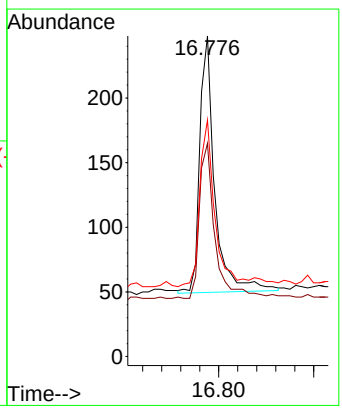


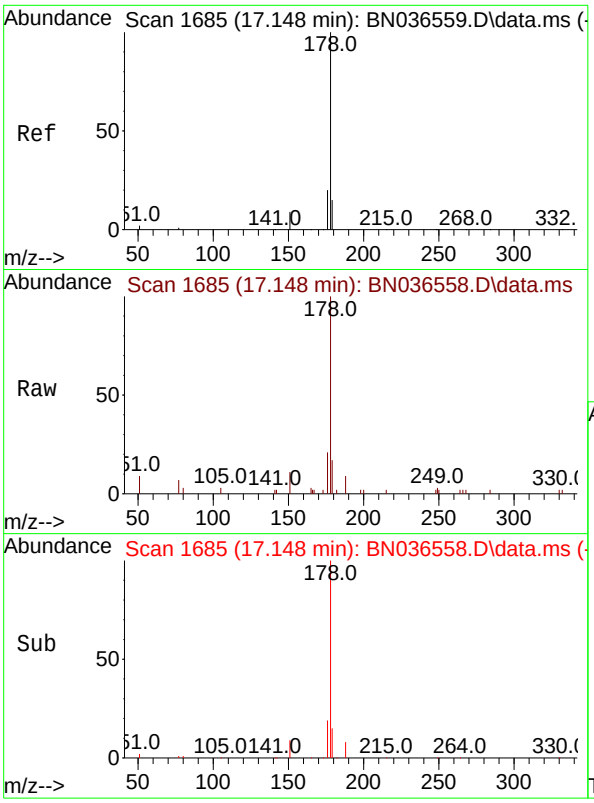


#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



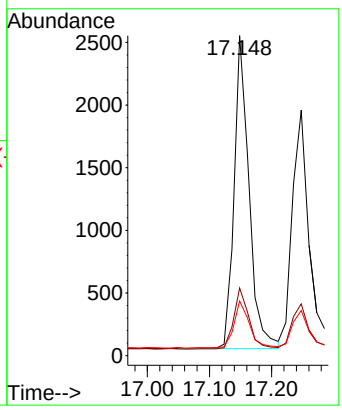


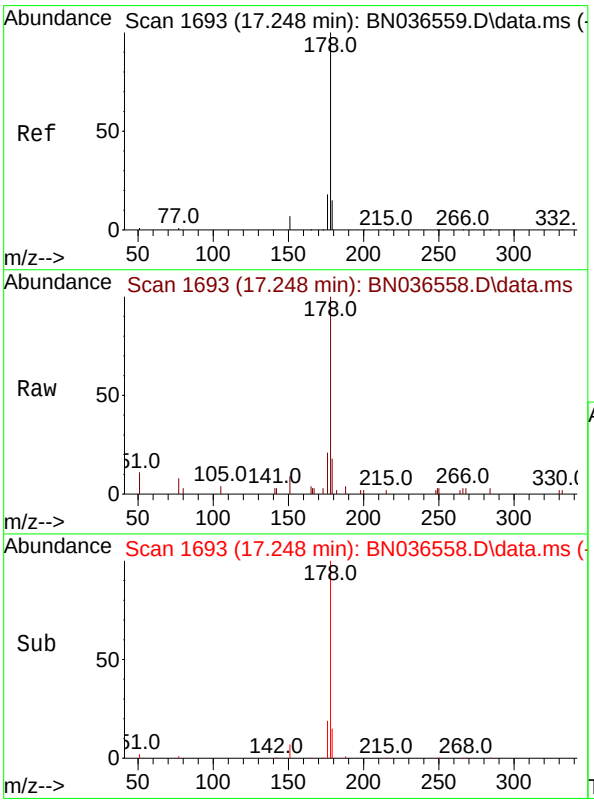
#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 4171

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

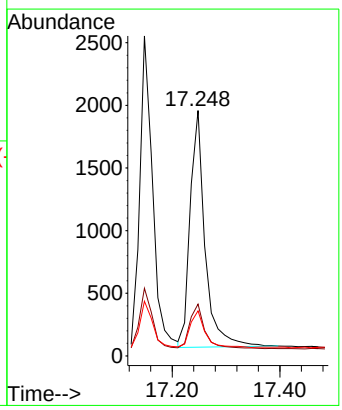


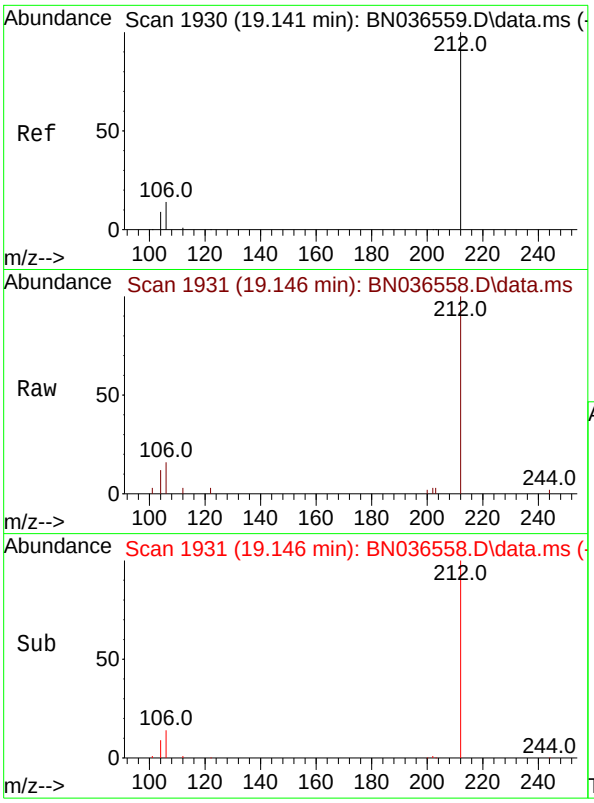


#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



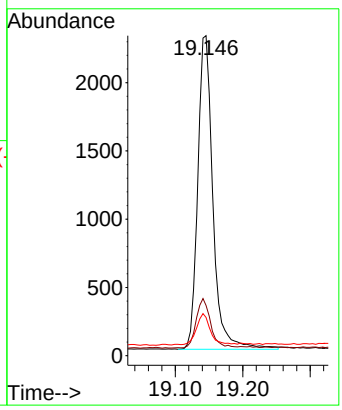


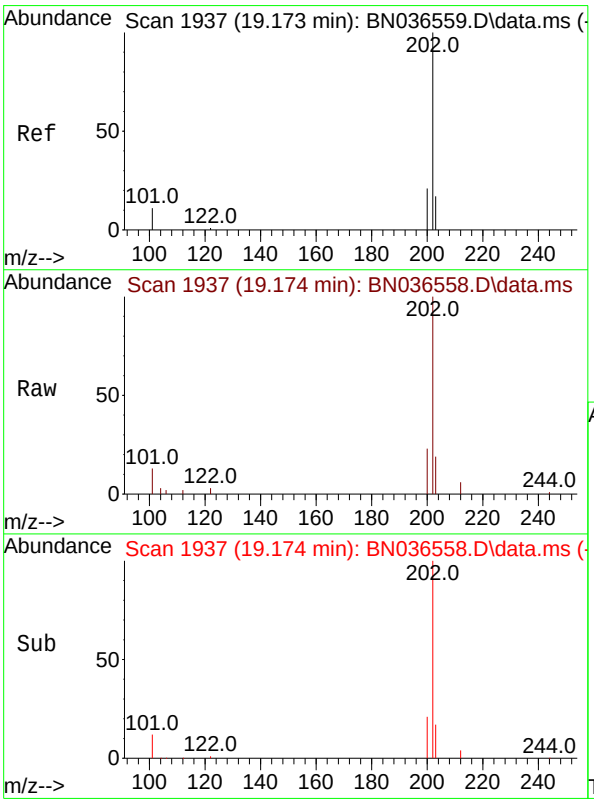
#27
Fluoranthene-d10
Concen: 0.186 ng
RT: 19.146 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 3583

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

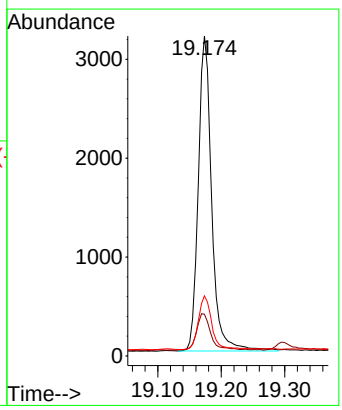


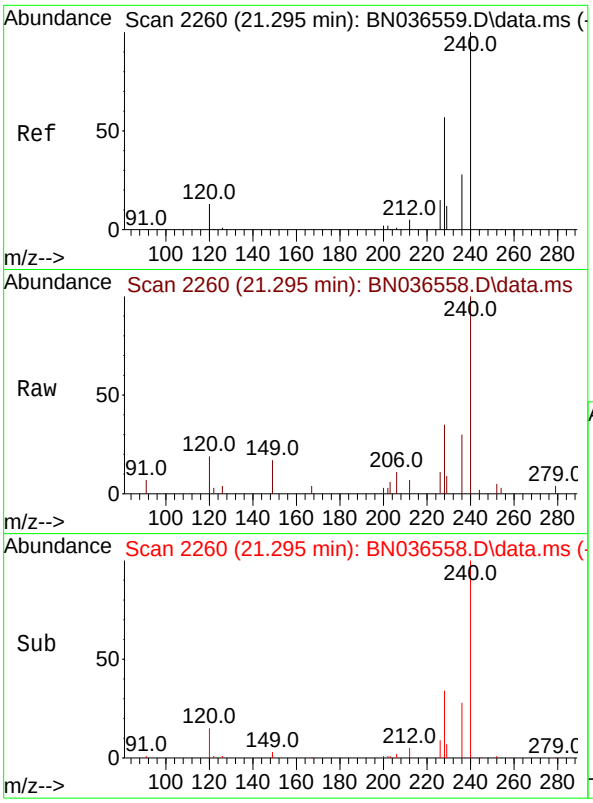


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



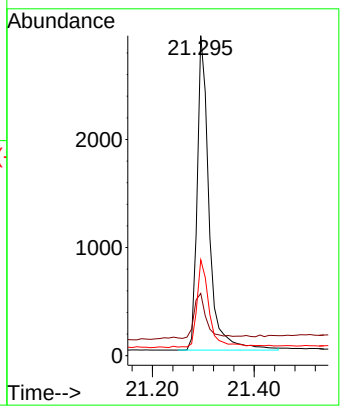


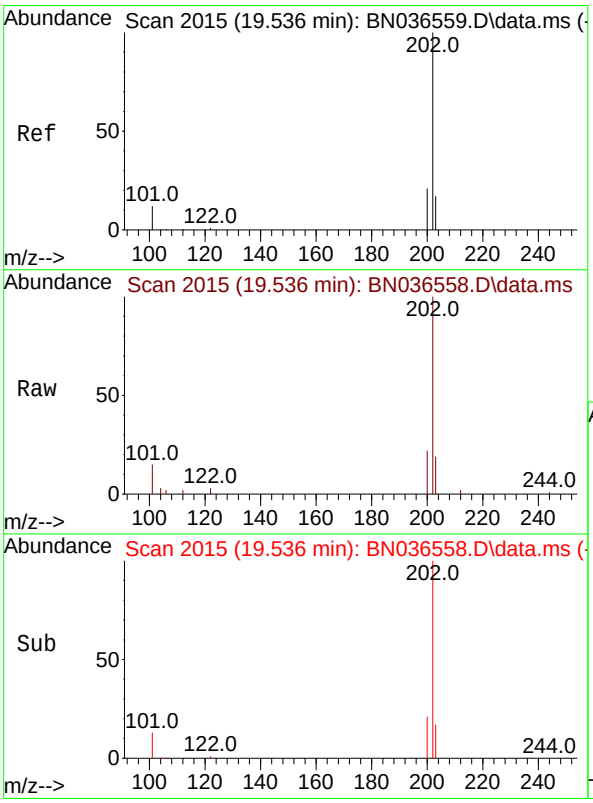
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 4730

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

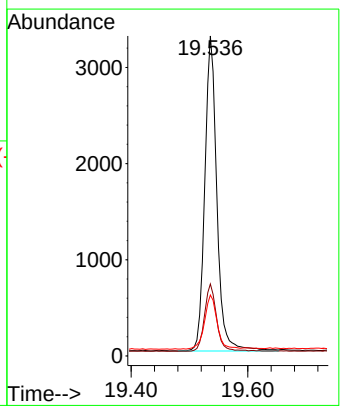


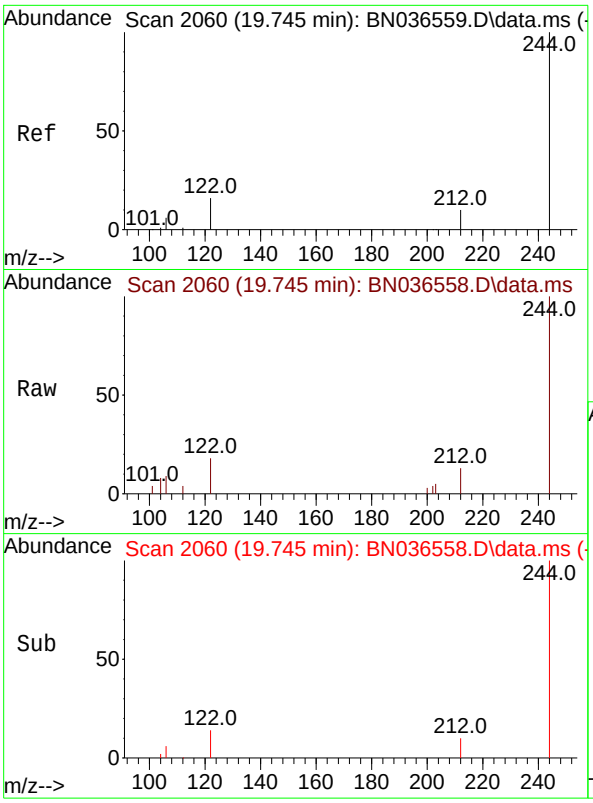


#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



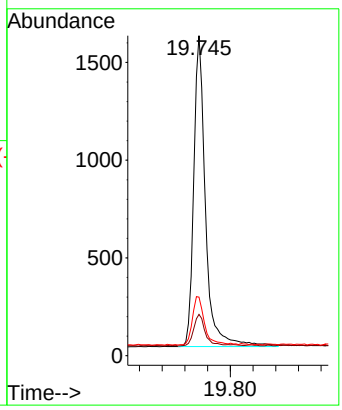


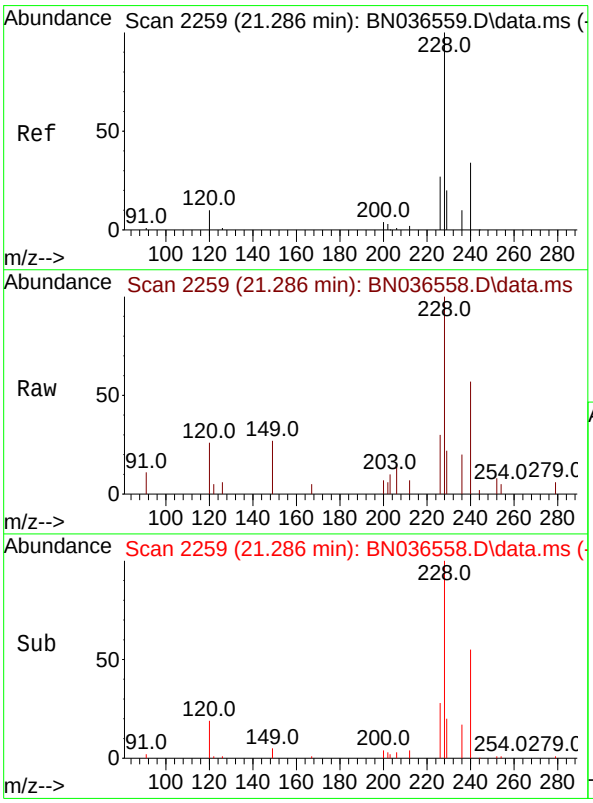
#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 2283

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

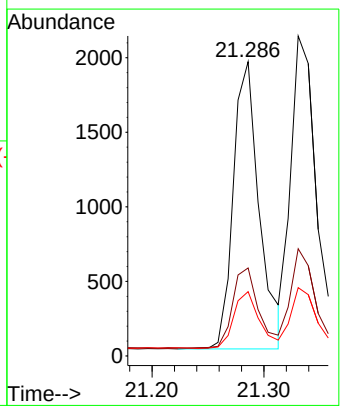


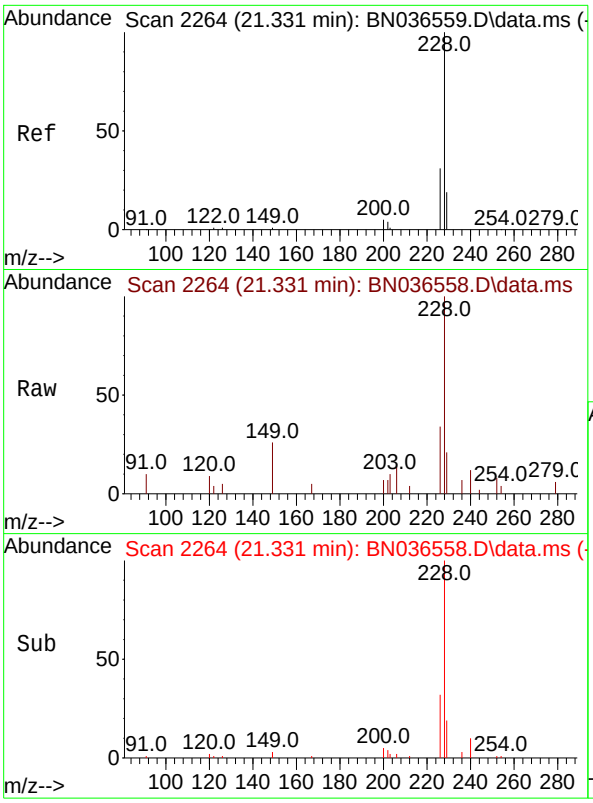


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



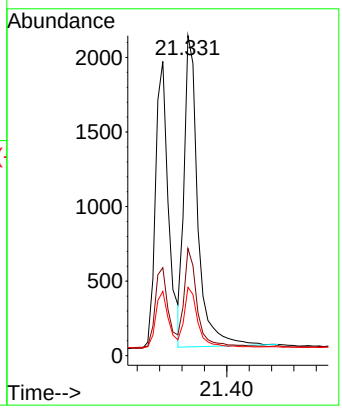


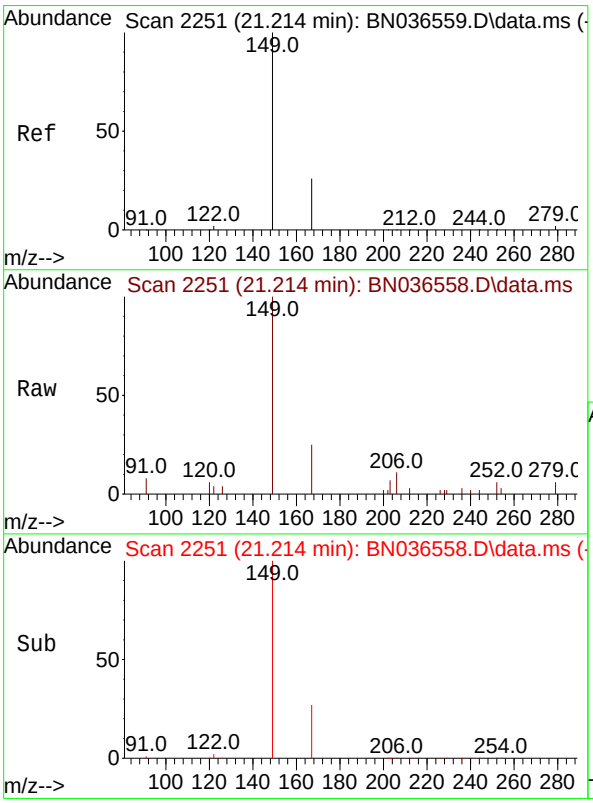
#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 3568

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

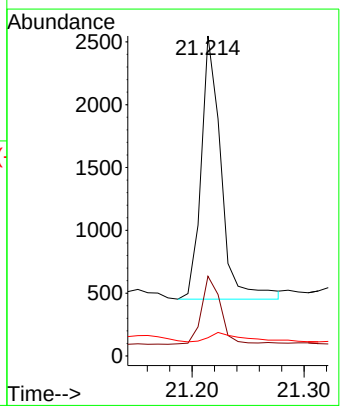


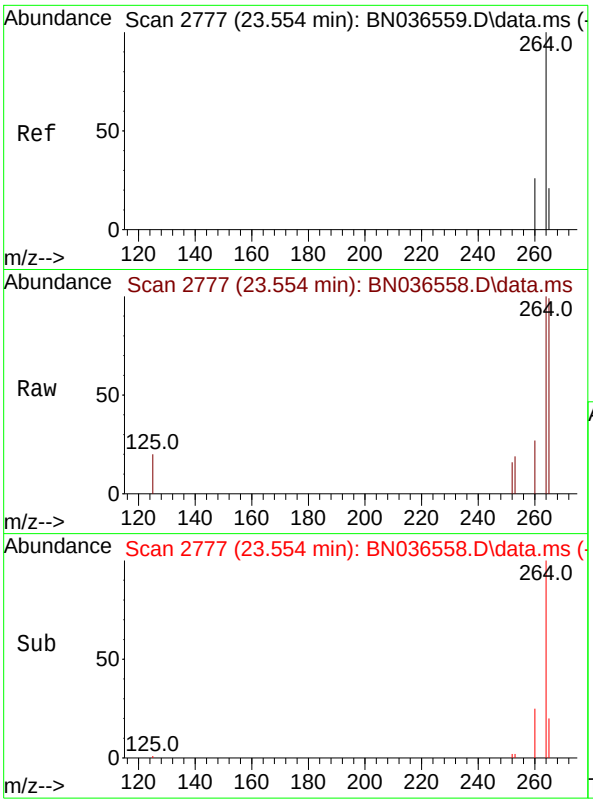


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#



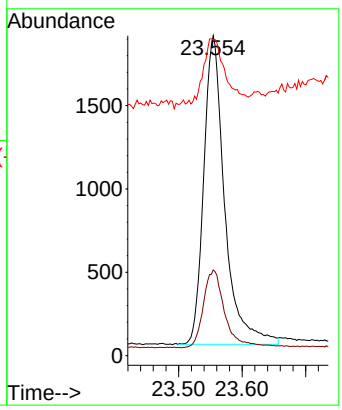


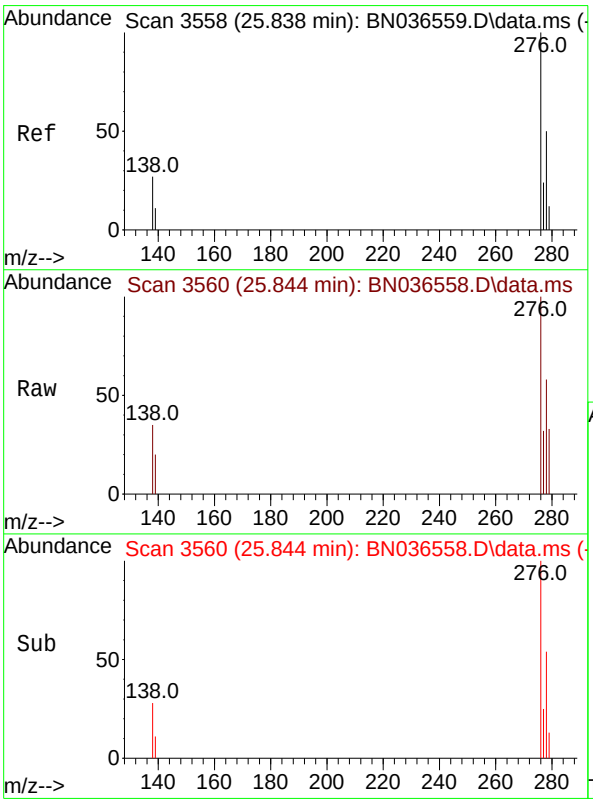
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 4241

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

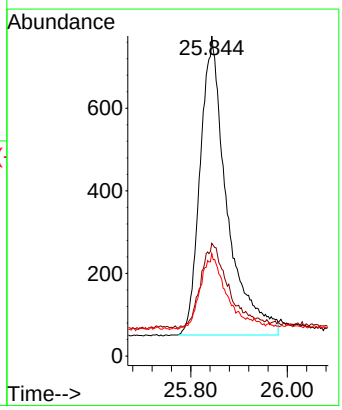


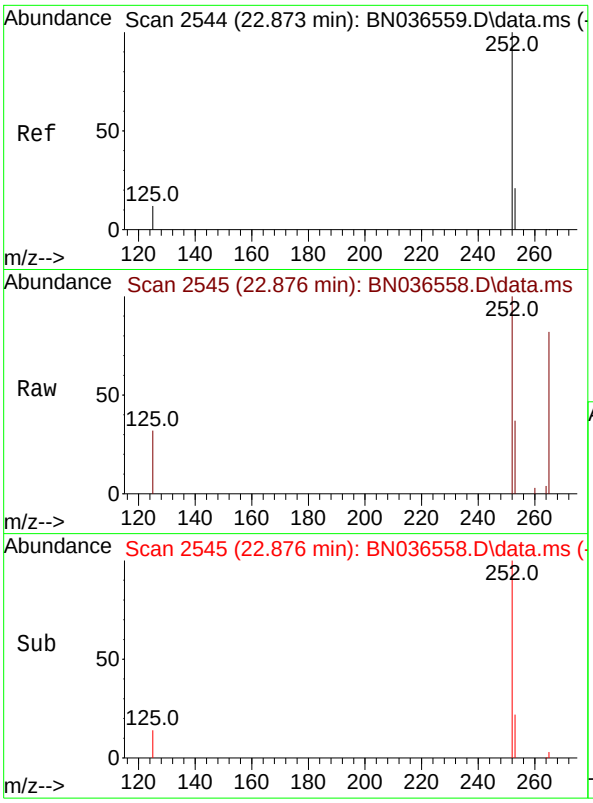


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



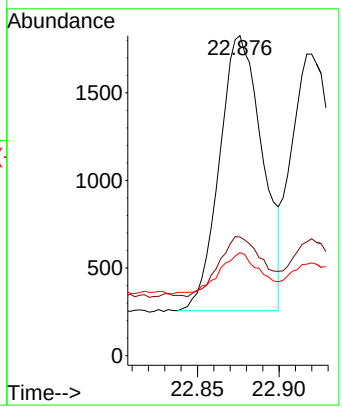


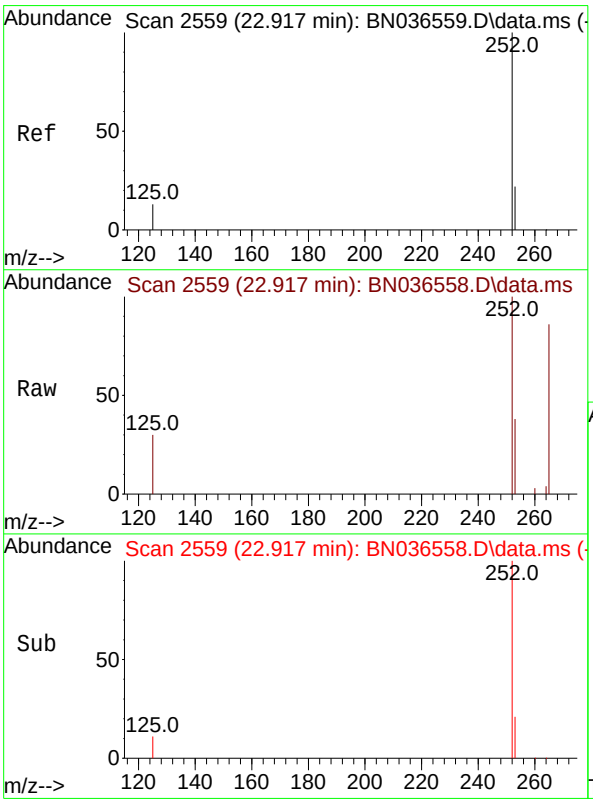
#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 2883

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

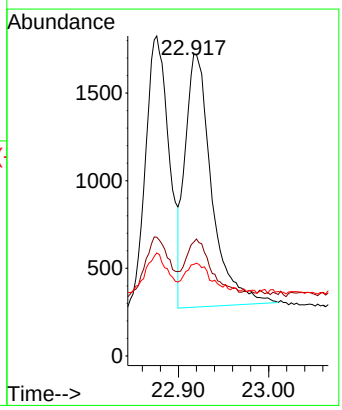


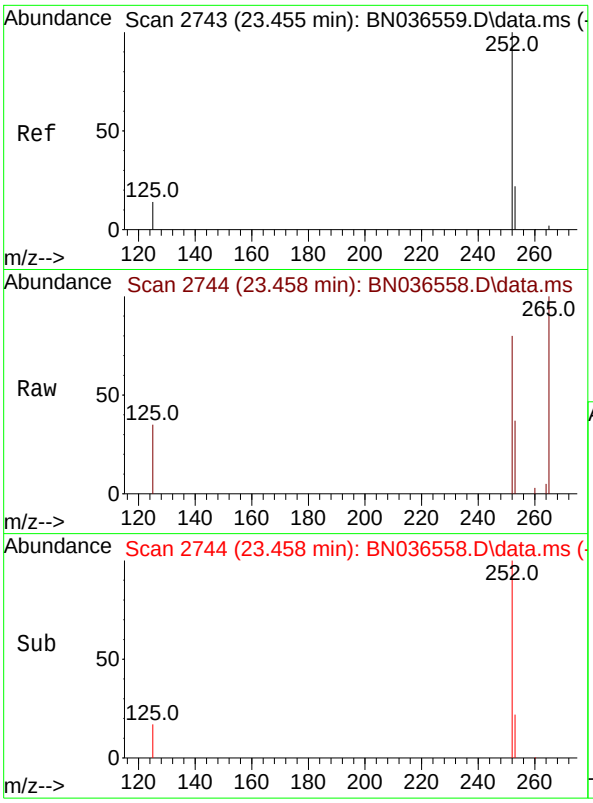


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#



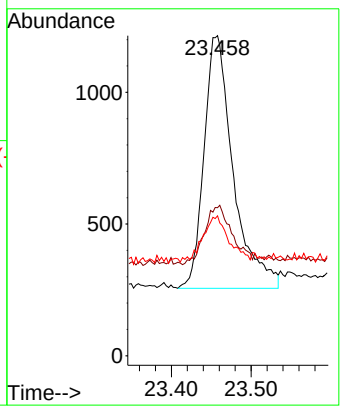


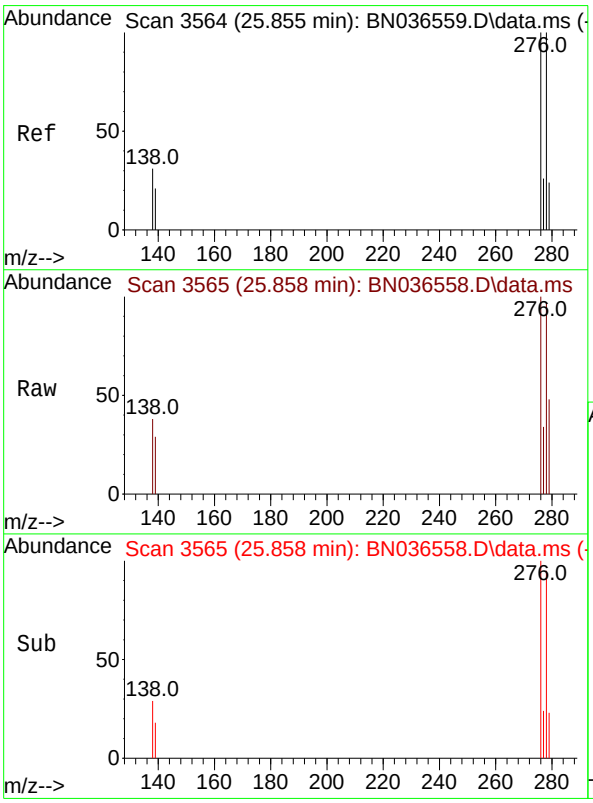
#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 2443

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

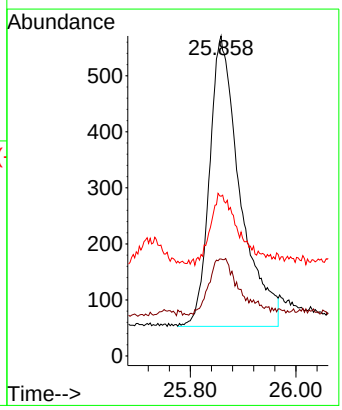


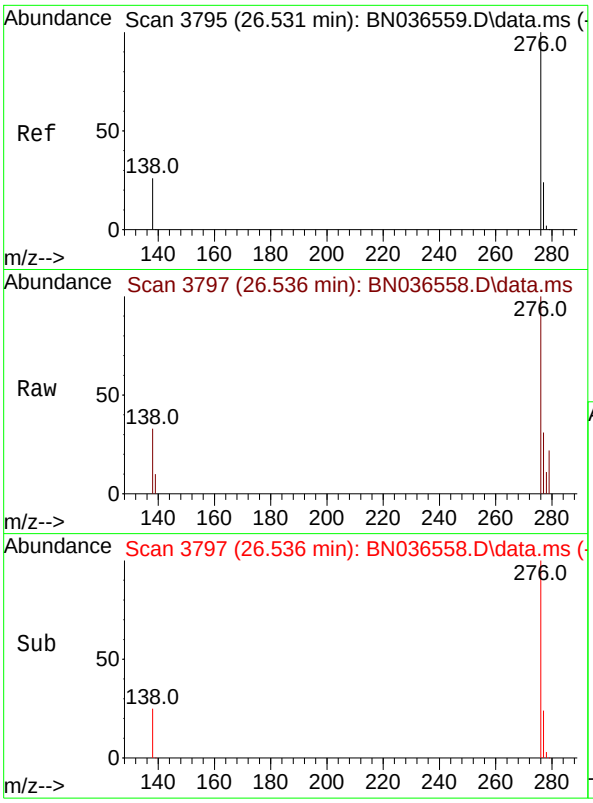


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#



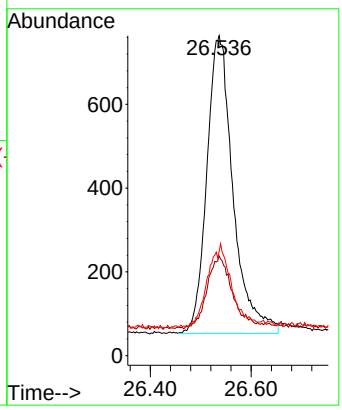


#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 2573

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



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 27 19:15:26 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 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1995	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	4873	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2980	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	6276	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	5211	0.400	ng	-0.02
35) Perylene-d12	23.525	264	4739	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1732	0.373	ng	-0.02
5) Phenol-d6	6.872	99	2011	0.350	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1760	0.332	ng	-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2584	0.356	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	518	0.383	ng	-0.02
15) 2-Fluorobiphenyl	12.968	172	5972	0.344	ng	-0.02
27) Fluoranthene-d10	19.122	212	6412	0.399	ng	-0.02
31) Terphenyl-d14	19.726	244	4220	0.338	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	979	0.442	ng	93
3) n-Nitrosodimethylamine	3.543	42	1688	0.377	ng	98
6) bis(2-Chloroethyl)ether	7.132	93	2087	0.352	ng	99
9) Naphthalene	10.530	128	5118	0.357	ng	99
10) Hexachlorobutadiene	10.829	225	1232	0.365	ng	# 96
12) 2-Methylnaphthalene	12.156	142	3238	0.355	ng	99
16) Acenaphthylene	14.056	152	4782	0.340	ng	100
17) Acenaphthene	14.398	154	3313	0.360	ng	100
18) Fluorene	15.392	166	4544	0.365	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	478	0.444	ng	# 75
21) 4-Bromophenyl-phenylether	16.292	248	1431	0.364	ng	# 76
22) Hexachlorobenzene	16.404	284	1682	0.354	ng	96
23) Atrazine	16.565	200	1221	0.387	ng	95
24) Pentachlorophenol	16.751	266	801	0.370	ng	98
25) Phenanthrene	17.124	178	7195	0.382	ng	100
26) Anthracene	17.223	178	6283	0.370	ng	100
28) Fluoranthene	19.150	202	8617	0.407	ng	99
30) Pyrene	19.513	202	8868	0.348	ng	100
32) Benzo(a)anthracene	21.259	228	6412	0.354	ng	98
33) Chrysene	21.313	228	7670	0.387	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4505	0.349	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.791	276	6199	0.362	ng	98
37) Benzo(b)fluoranthene	22.847	252	6514	0.378	ng	95
38) Benzo(k)fluoranthene	22.847	252	6514	0.360	ng	94
39) Benzo(a)pyrene	23.426	252	5338	0.368	ng	94
40) Dibenzo(a,h)anthracene	25.808	278	4803	0.361	ng	95
41) Benzo(g,h,i)perylene	26.481	276	5667	0.372	ng	98

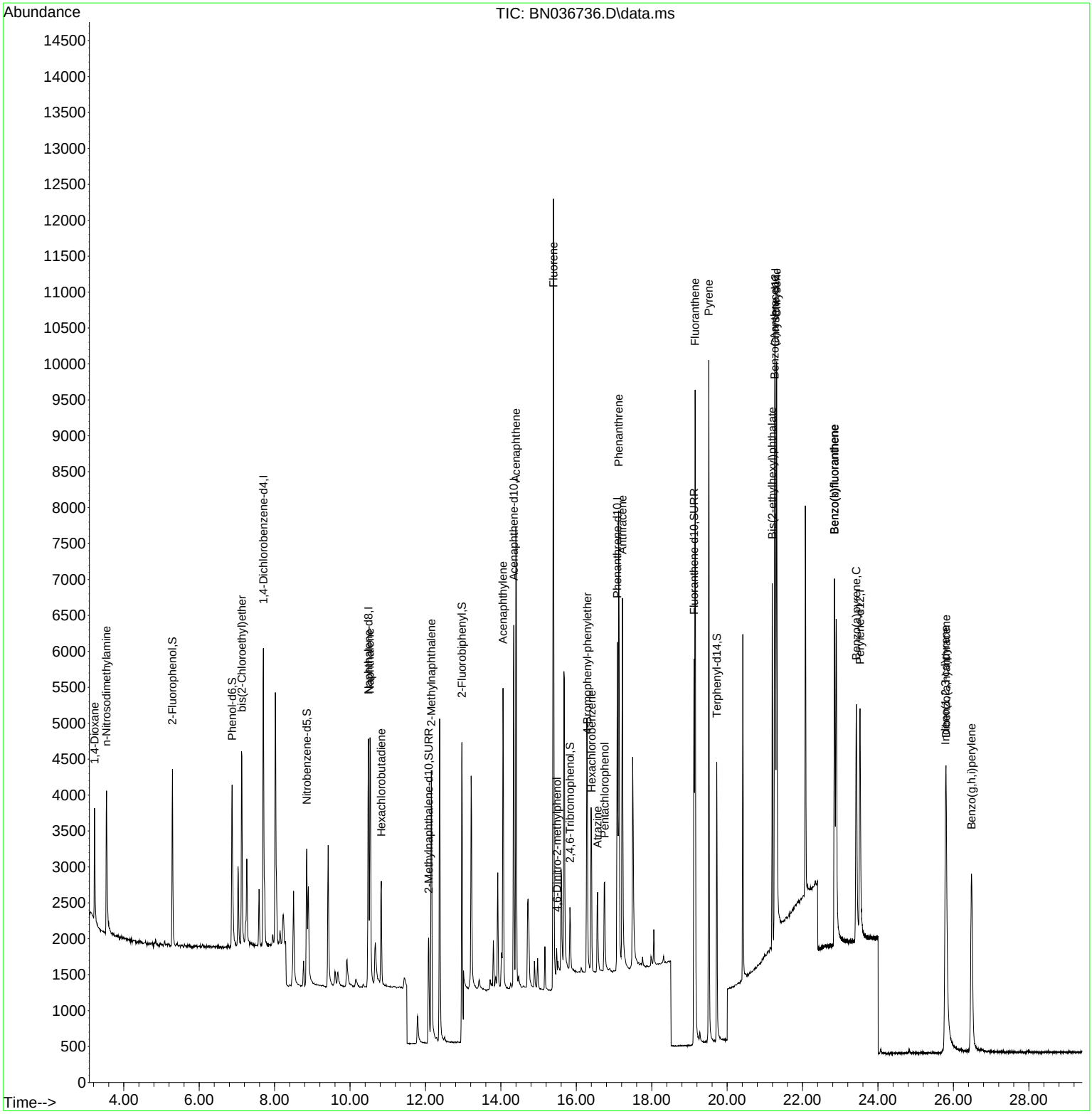
(#) = qualifier out of range (m) = manual integration (+) = signals summed

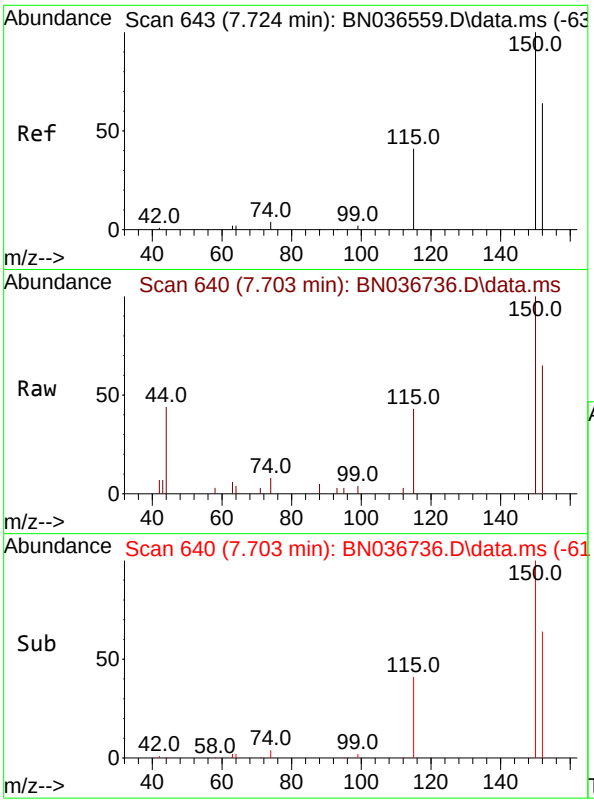
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036736.D
Acq On : 27 Mar 2025 14:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 27 19:15:26 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 16:06:28 2025
Response via : Initial Calibration



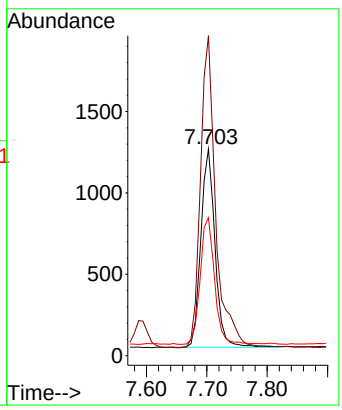


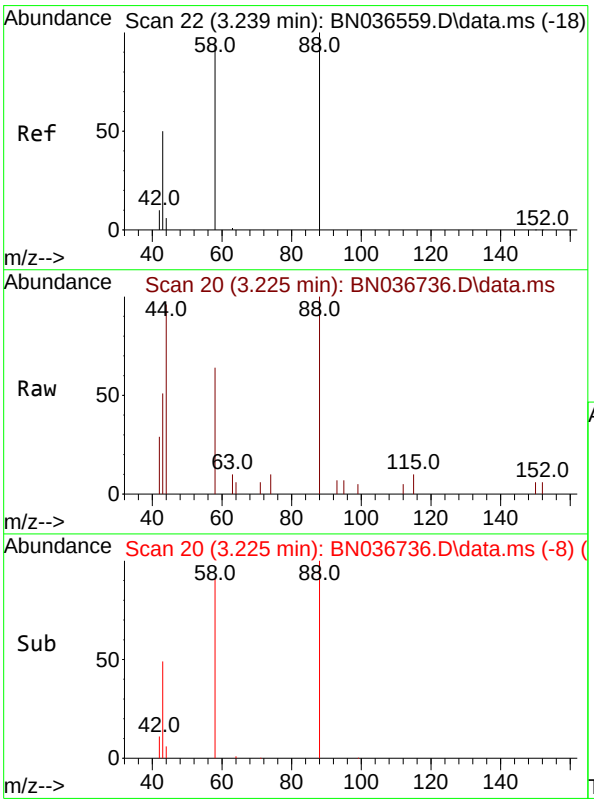
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1995

Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.7	185.5
115	66.7	54.3	81.5

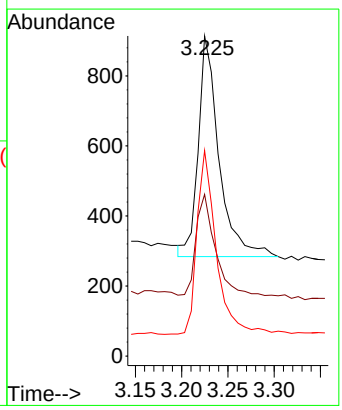


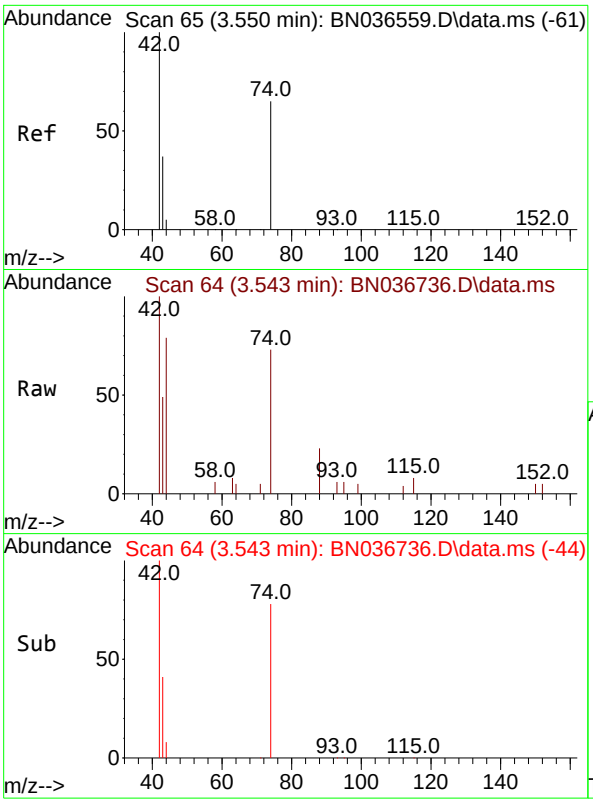


#2
1,4-Dioxane
Concen: 0.442 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 88 Resp: 979

Ion	Ratio	Lower	Upper
88	100		
43	43.0	37.8	56.8
58	77.9	67.4	101.2



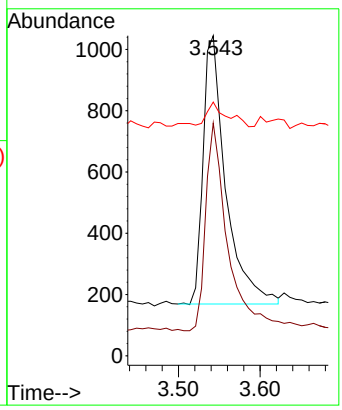


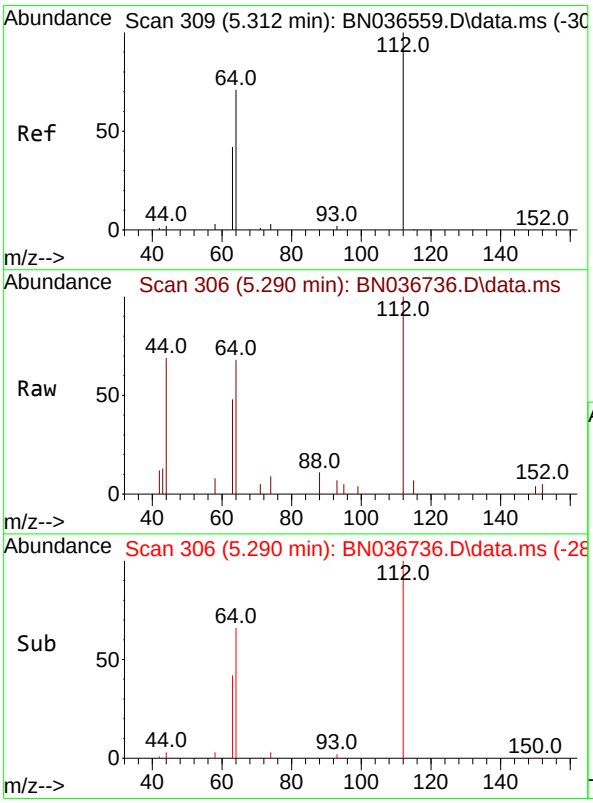
#3
n-Nitrosodimethylamine
Concen: 0.377 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1688

Ion	Ratio	Lower	Upper
42	100		
74	77.4	60.6	90.8
44	7.9	6.3	9.5

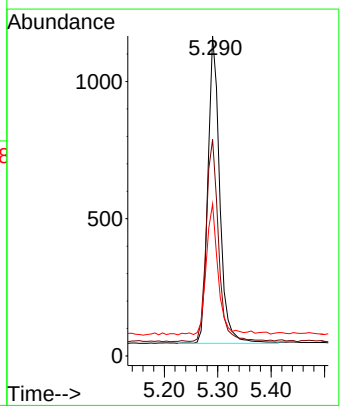


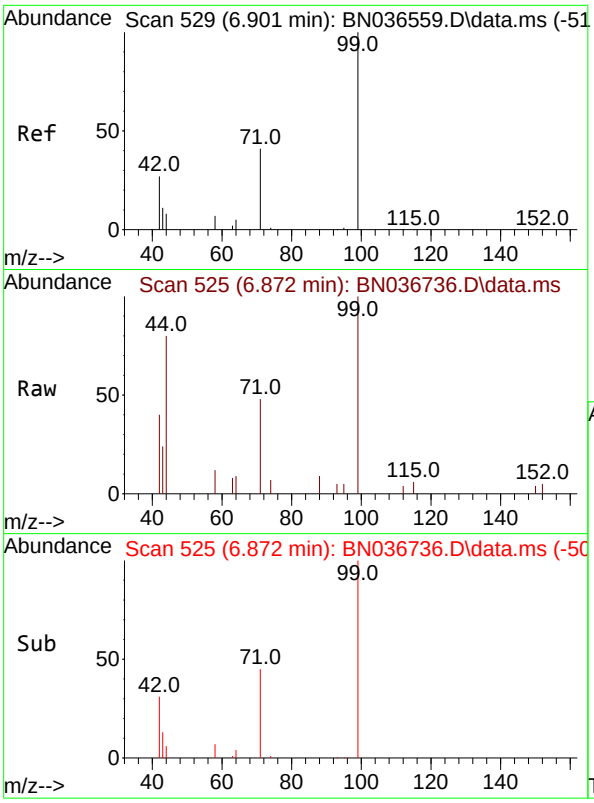


#4
2-Fluorophenol
Concen: 0.373 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:112 Resp: 1732

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.1	79.7
63	42.6	31.8	47.8



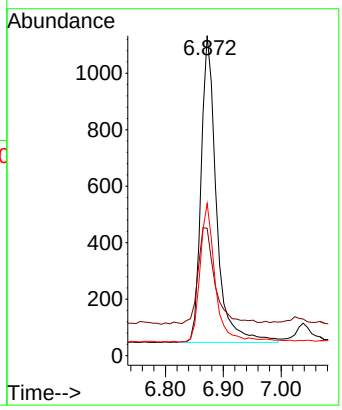


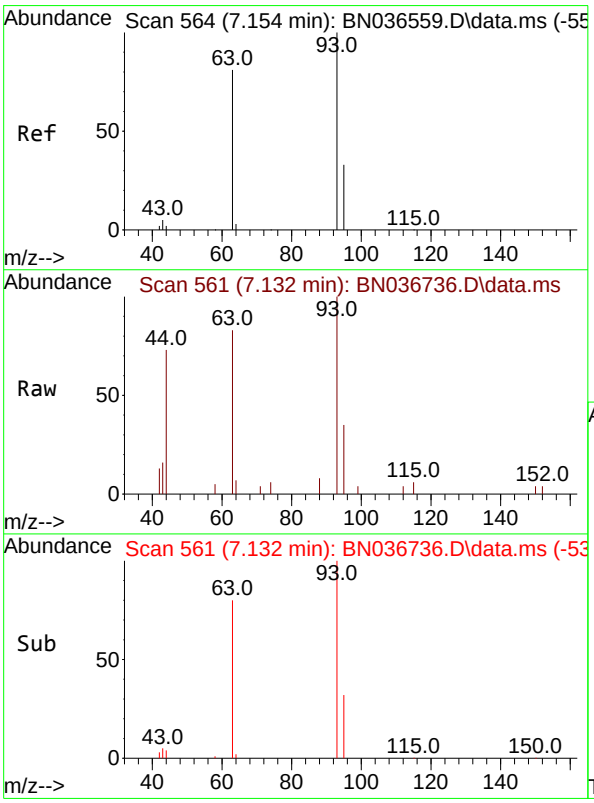
#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 2011

Ion	Ratio	Lower	Upper
99	100		
42	35.9	26.5	39.7
71	45.0	34.1	51.1

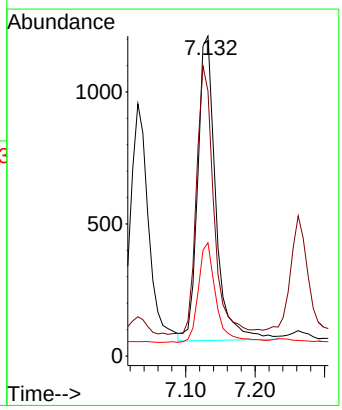


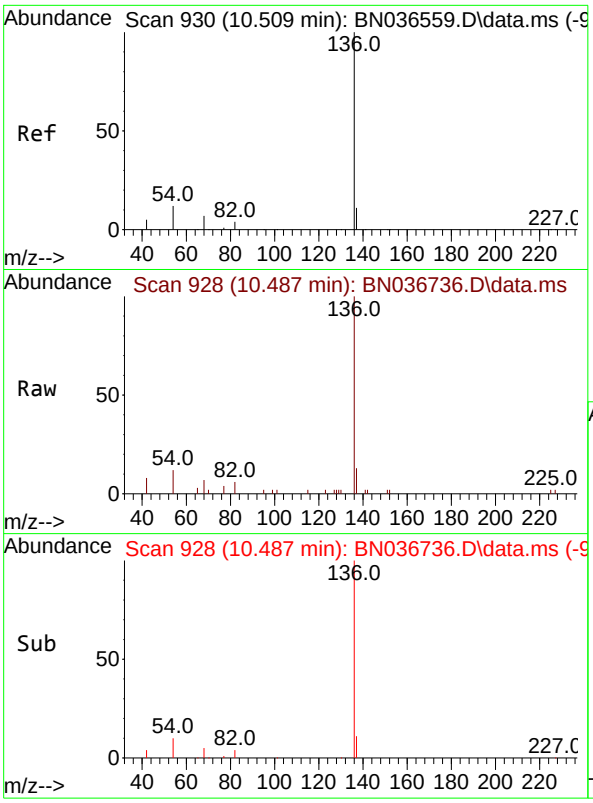


#6
bis(2-Chloroethyl)ether
Concen: 0.352 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.022 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 93 Resp: 2087

Ion	Ratio	Lower	Upper
93	100		
63	83.9	67.7	101.5
95	32.0	25.6	38.4



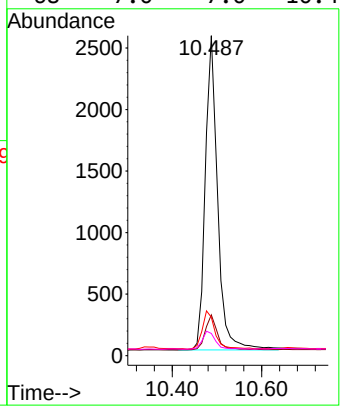


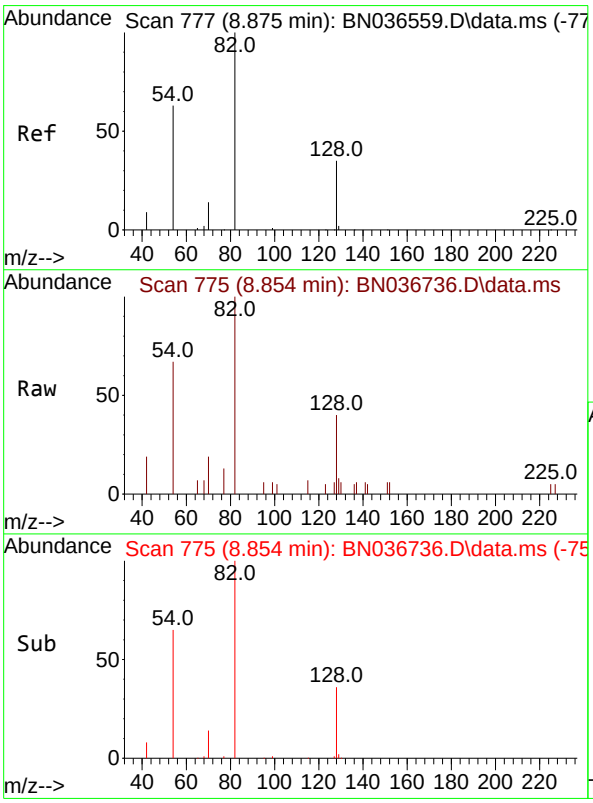
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4873

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	12.0	11.5	17.3
68	7.0	7.0	10.4

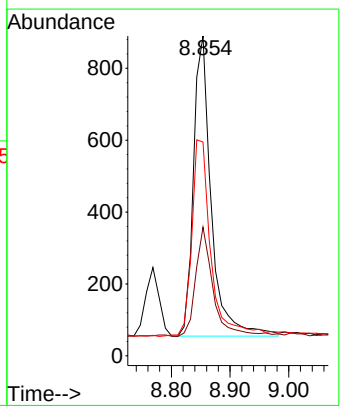


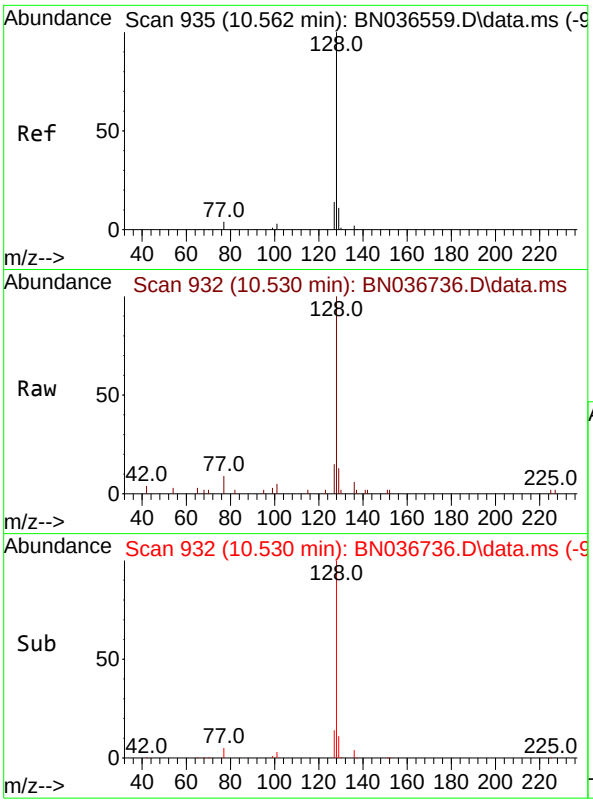


#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion: 82 Resp: 1760

Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.6	45.8
54	66.9	52.2	78.4



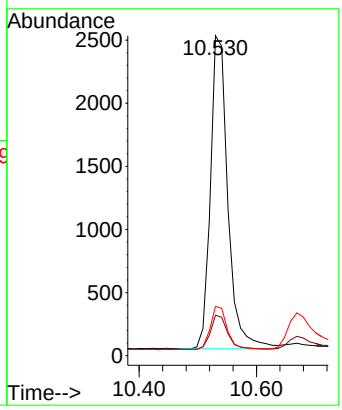


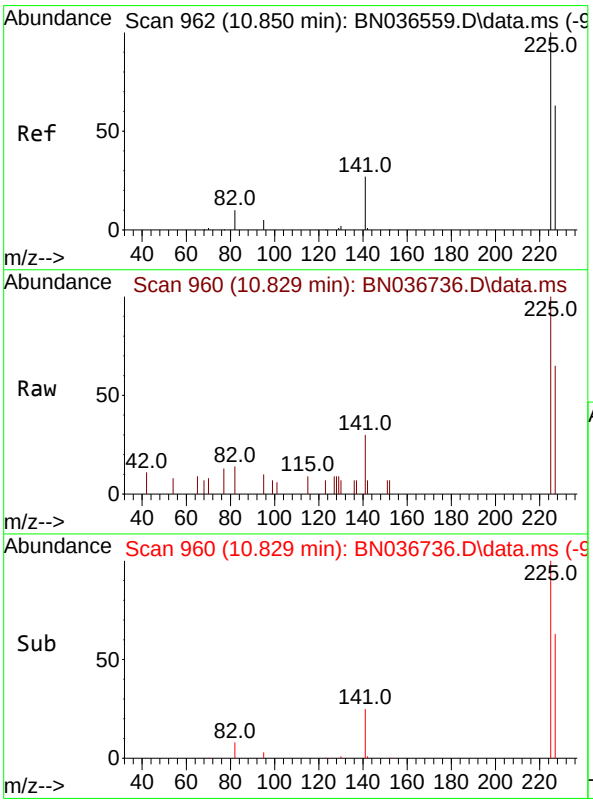
#9
Naphthalene
Concen: 0.357 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 5118

Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	15.4	11.8	17.8

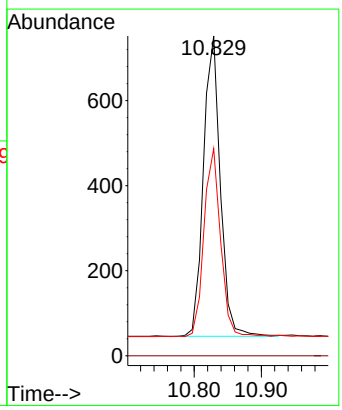


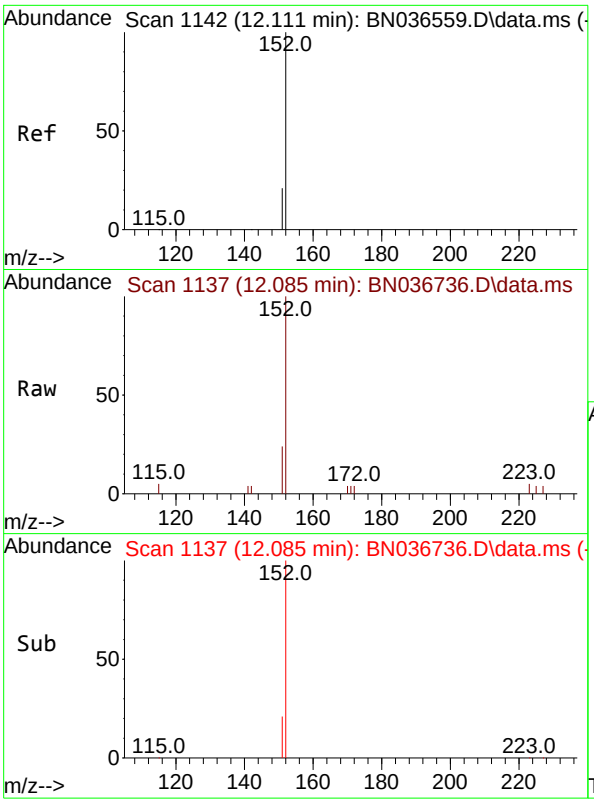


#10
Hexachlorobutadiene
Concen: 0.365 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:225 Resp: 1232

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.7	51.8	77.8



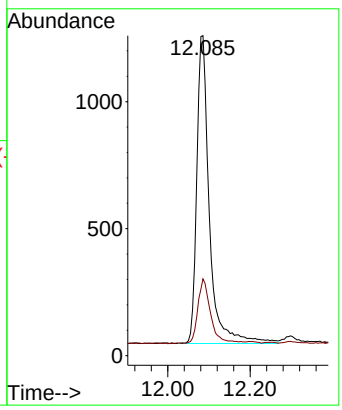


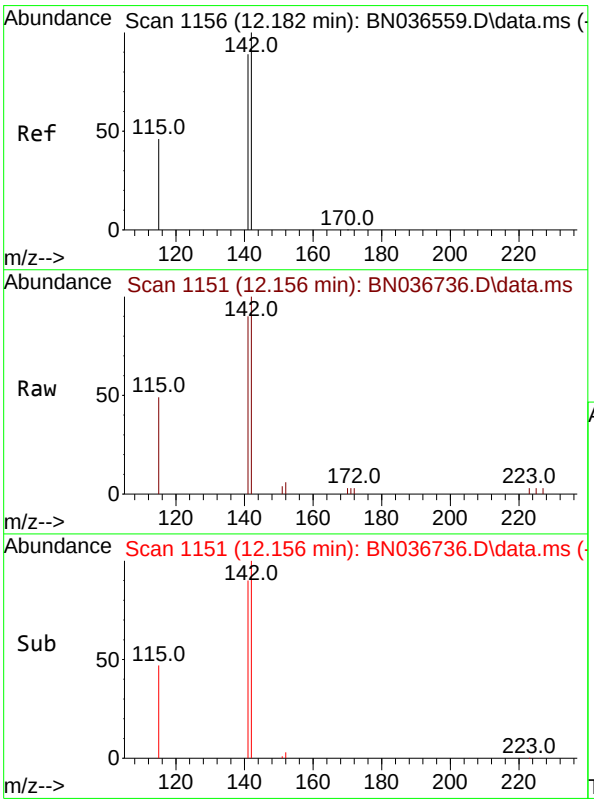
#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2584

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

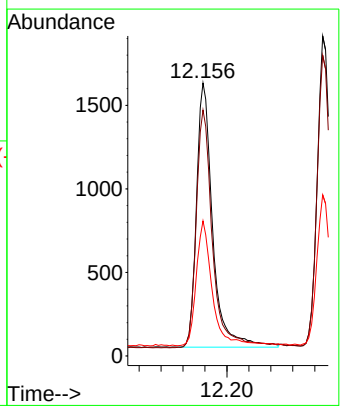


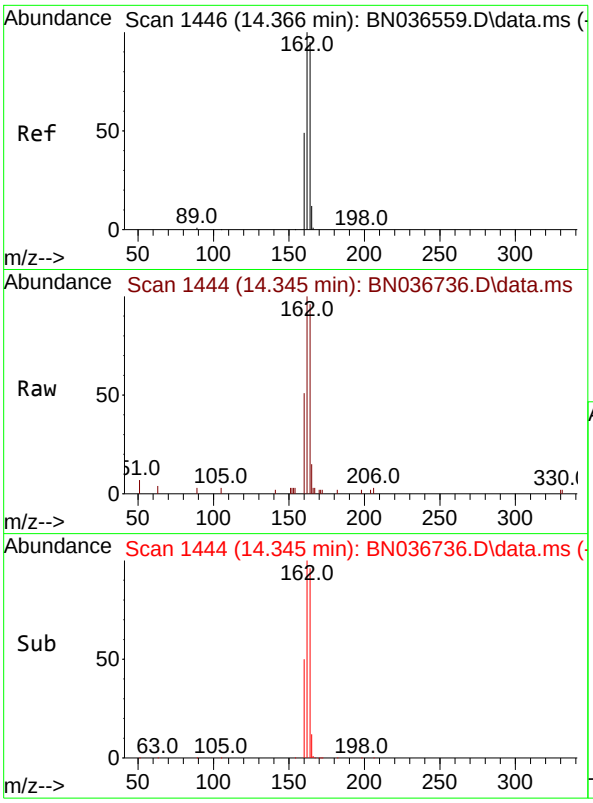


#12
2-Methylnaphthalene
Concen: 0.355 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:142 Resp: 3238

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.7	107.5
115	49.4	38.3	57.5



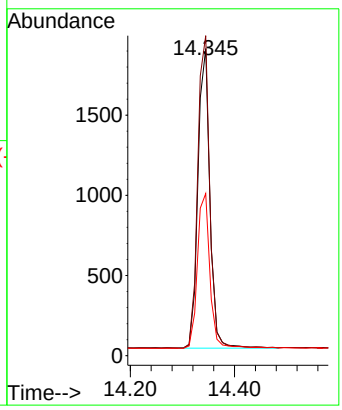


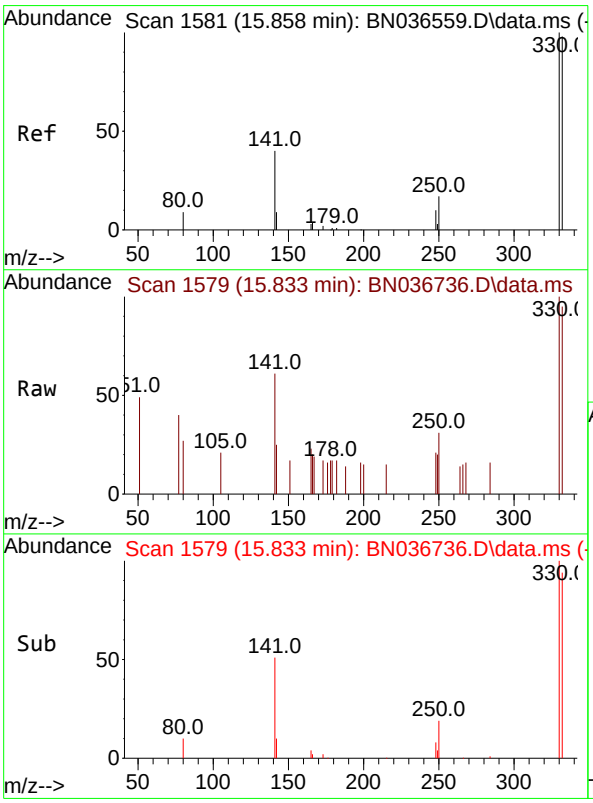
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2980

Ion	Ratio	Lower	Upper
164	100		
162	104.2	84.2	126.2
160	52.8	42.2	63.2

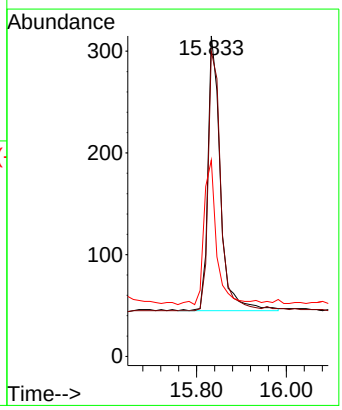


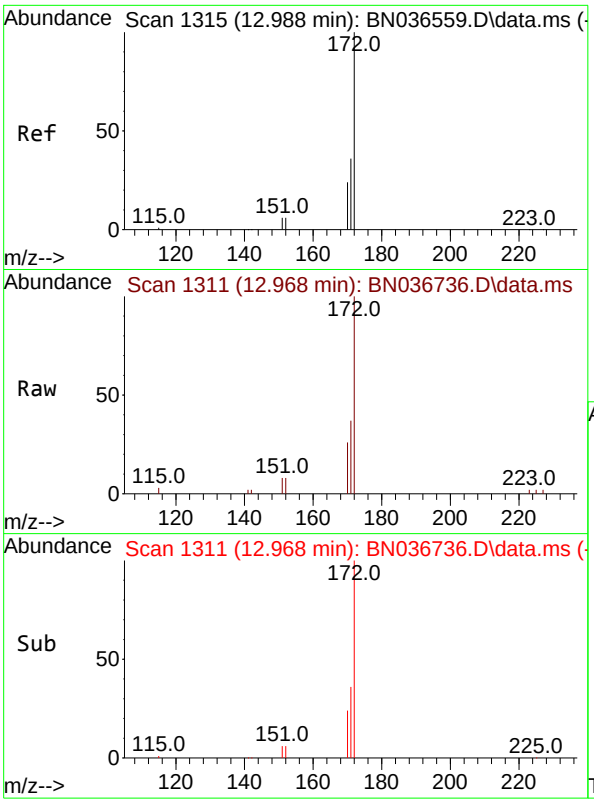


#14
2,4,6-Tribromophenol
Concen: 0.383 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:330 Resp: 518

Ion	Ratio	Lower	Upper
330	100		
332	95.4	75.2	112.8
141	53.3	43.4	65.2



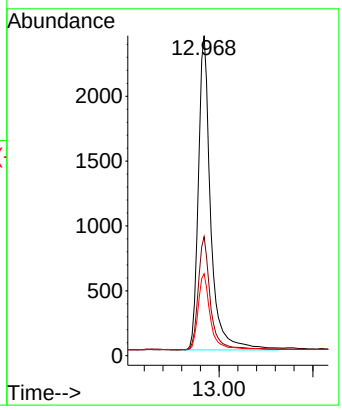


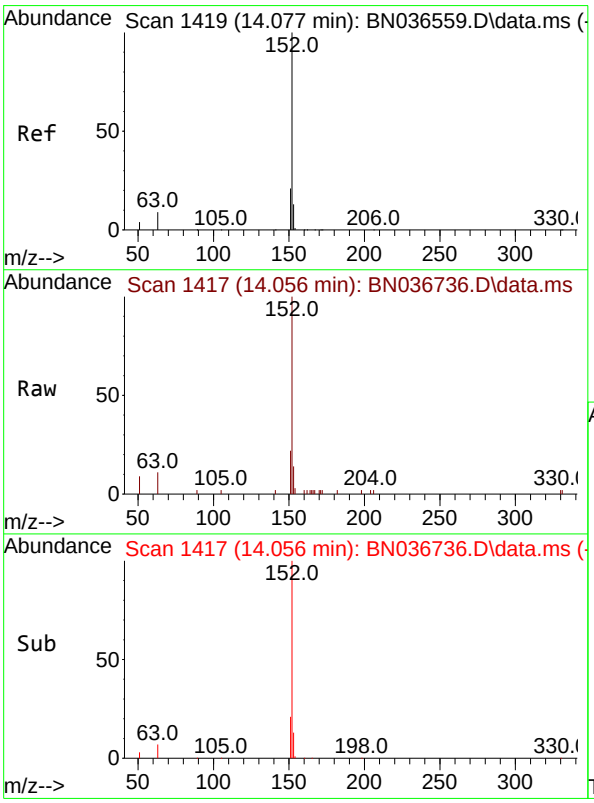
#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5972

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.6	20.2	30.4

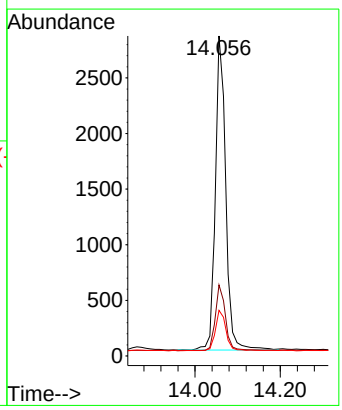


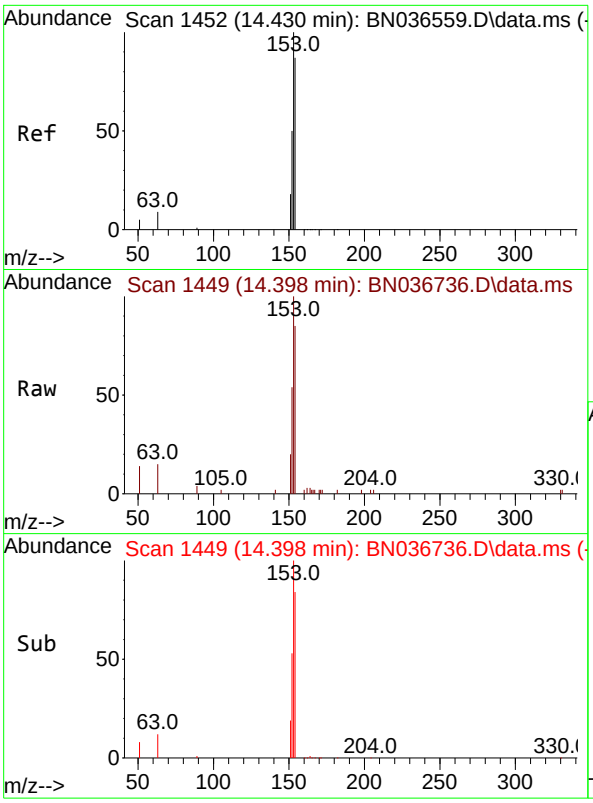


#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:152 Resp: 4782

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.0	10.6	15.8



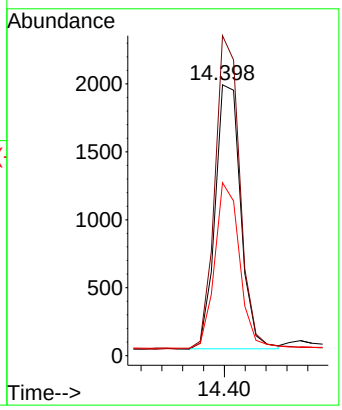


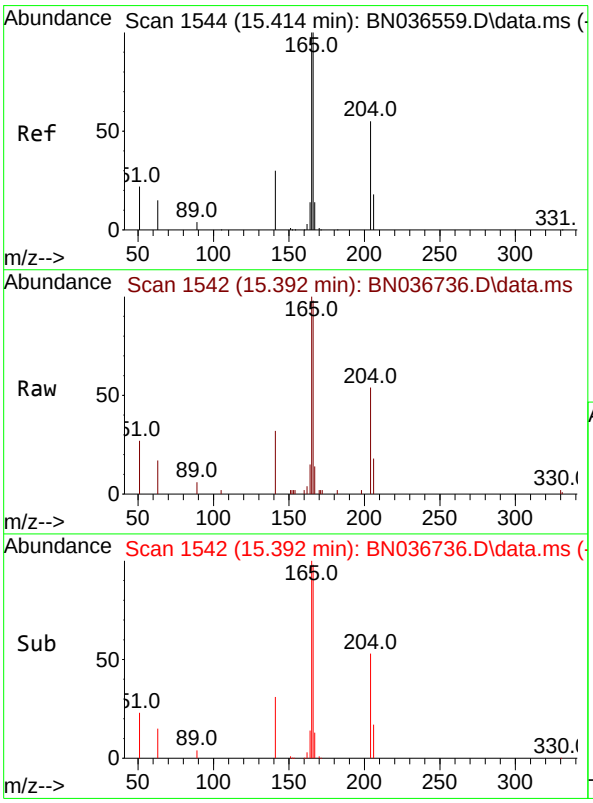
#17
Acenaphthene
Concen: 0.360 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3313

Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.1	141.1
152	62.4	49.8	74.6

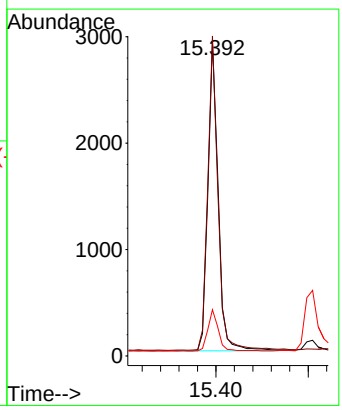


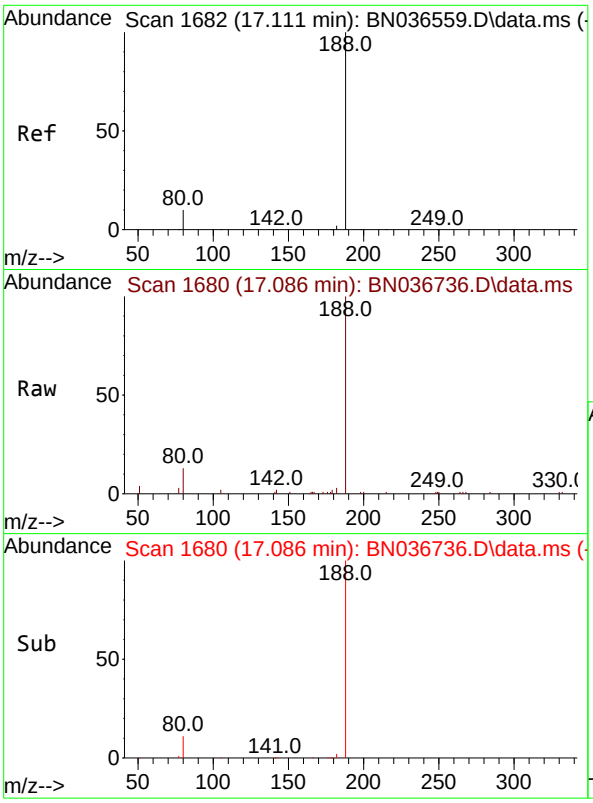


#18
Fluorene
Concen: 0.365 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:166 Resp: 4544

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.2	10.6	15.8



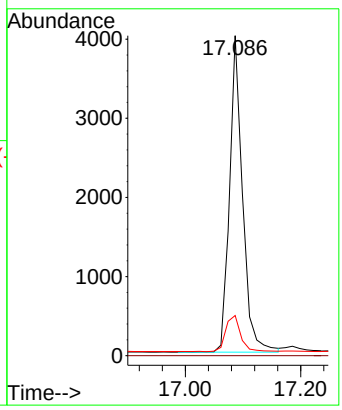


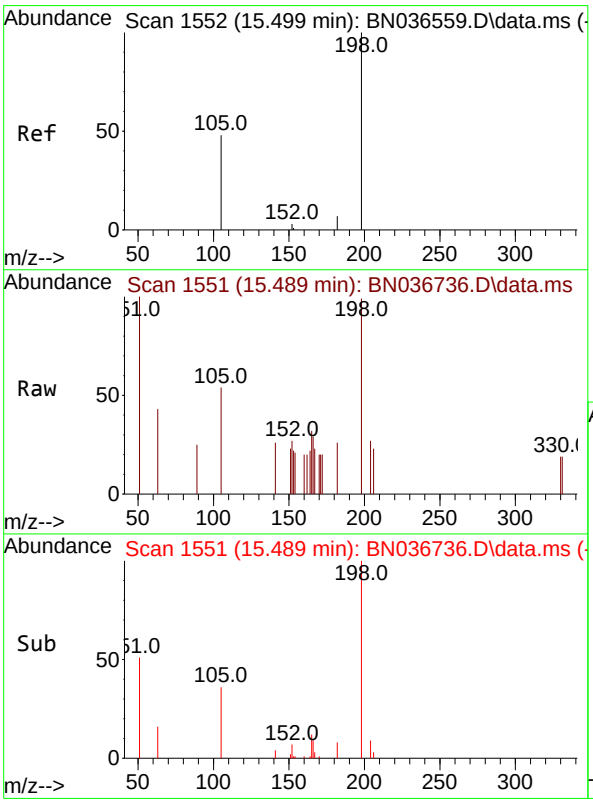
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 6276

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	8.8	13.2

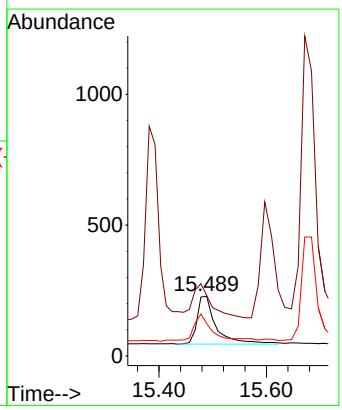


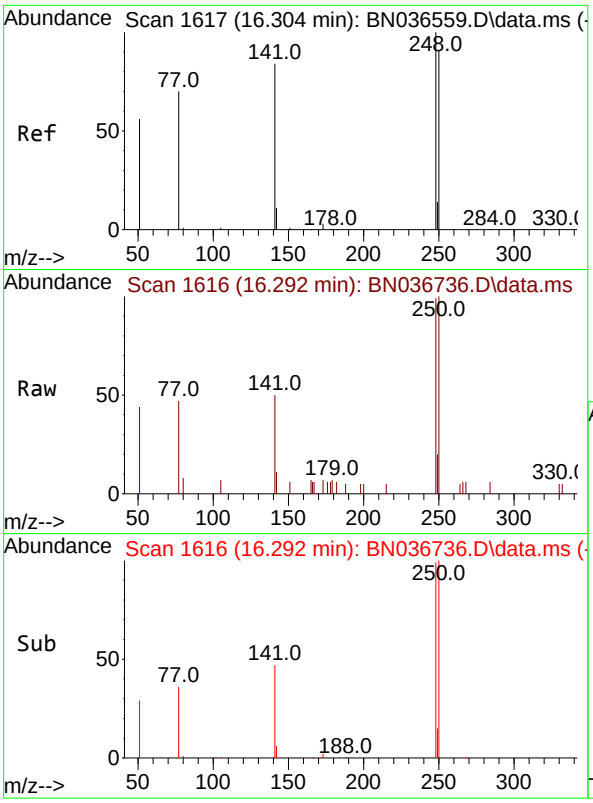


#20
4,6-Dinitro-2-methylphenol
Concen: 0.444 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:198 Resp: 478

Ion	Ratio	Lower	Upper
198	100		
51	101.3	107.9	161.9#
105	54.4	56.2	84.2#



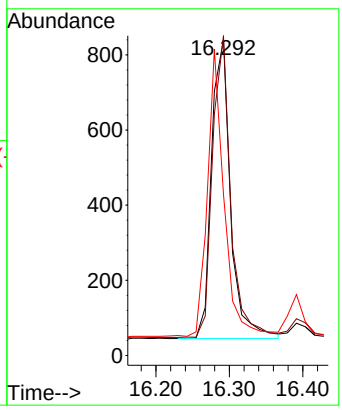


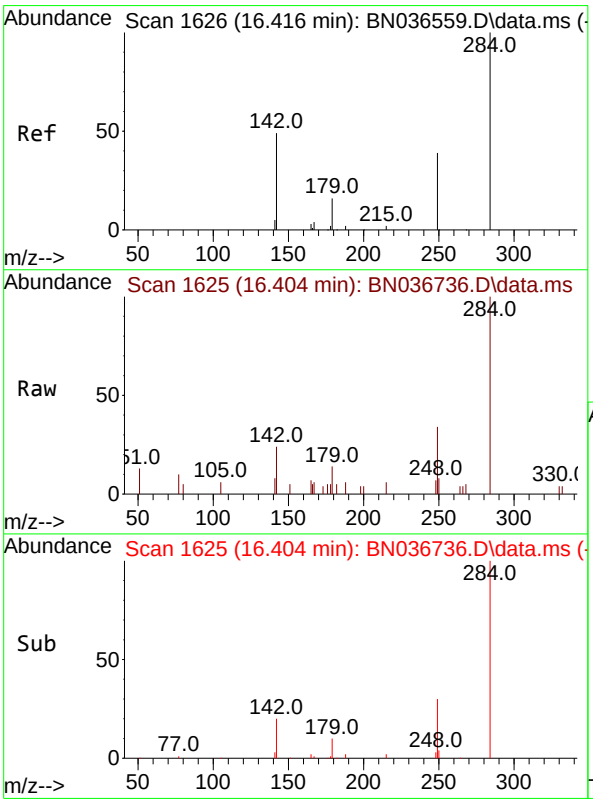
#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1431

Ion	Ratio	Lower	Upper
248	100		
250	101.2	73.0	109.6
141	51.0	68.6	103.0#

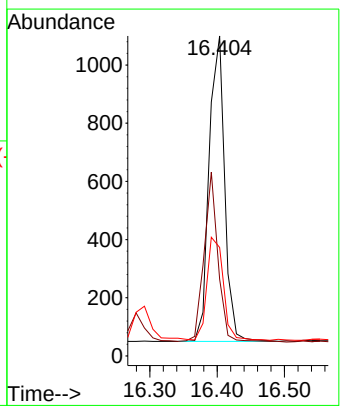


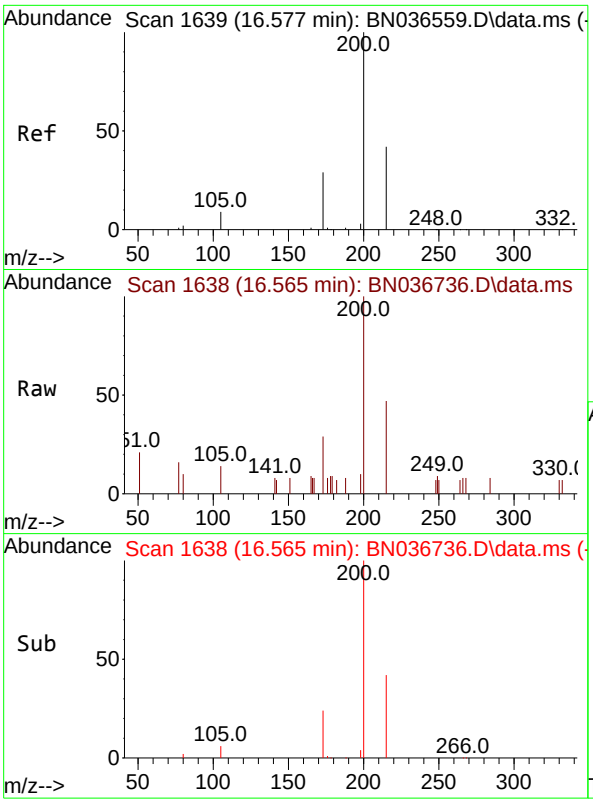


#22
Hexachlorobenzene
Concen: 0.354 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:284 Resp: 1682

Ion	Ratio	Lower	Upper
284	100		
142	50.2	37.0	55.4
249	35.7	28.1	42.1



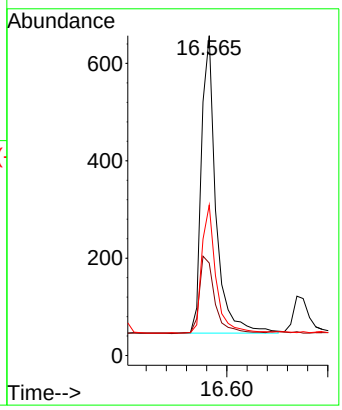


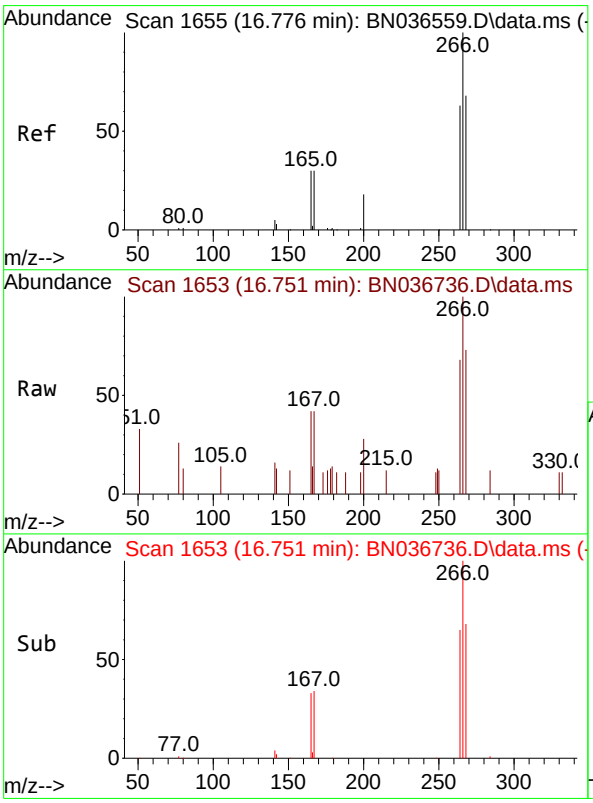
#23
Atrazine
Concen: 0.387 ng
RT: 16.565 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1221

Ion	Ratio	Lower	Upper
200	100		
173	28.9	27.3	40.9
215	47.0	36.8	55.2

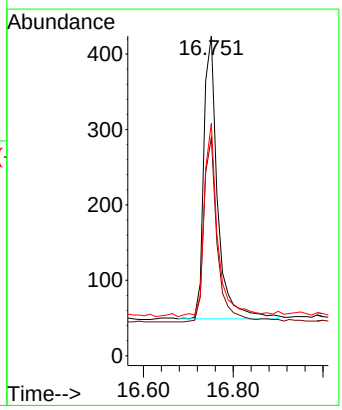


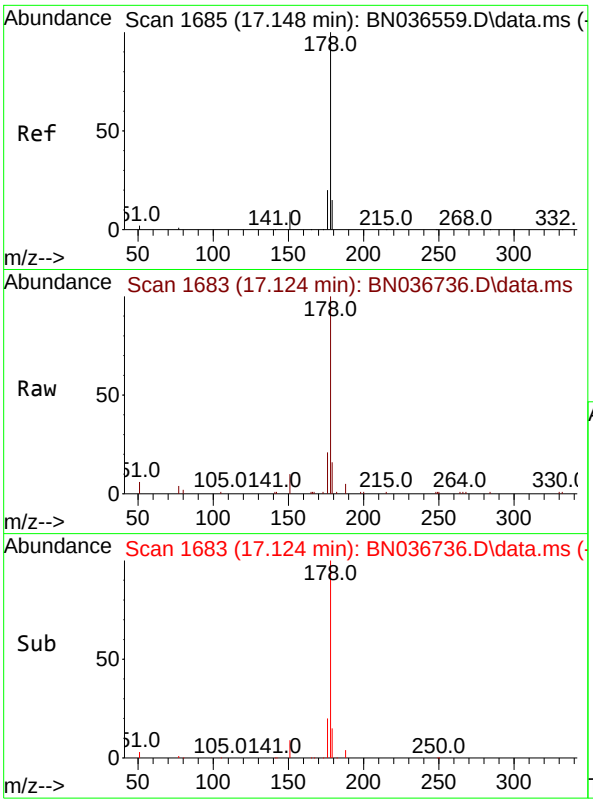


#24
Pentachlorophenol
Concen: 0.370 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:266 Resp: 801

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.6	74.4
268	66.5	50.9	76.3



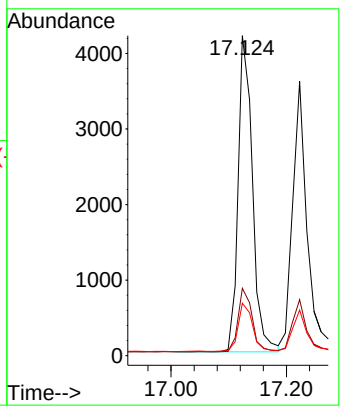


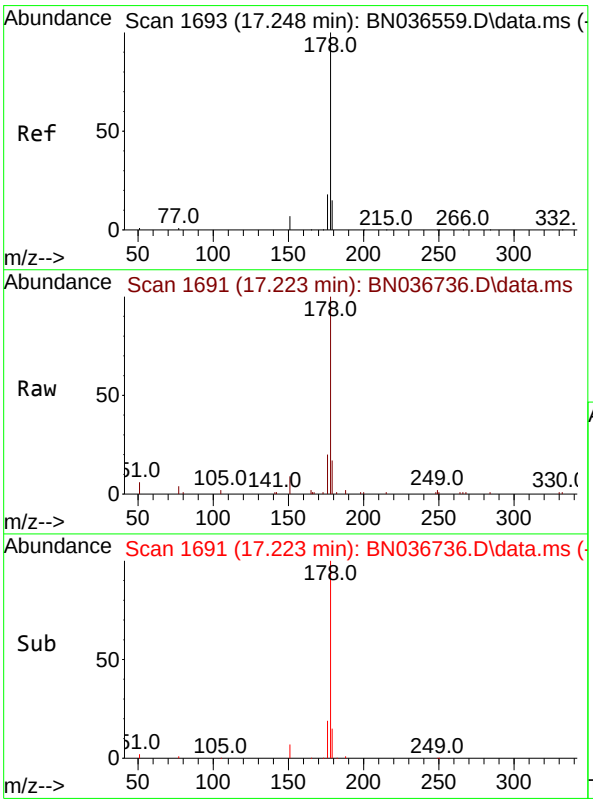
#25
Phenanthrene
Concen: 0.382 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 7195

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.3	12.2	18.4

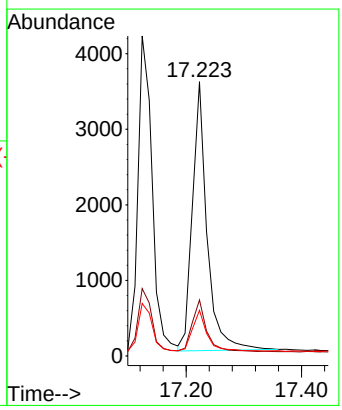


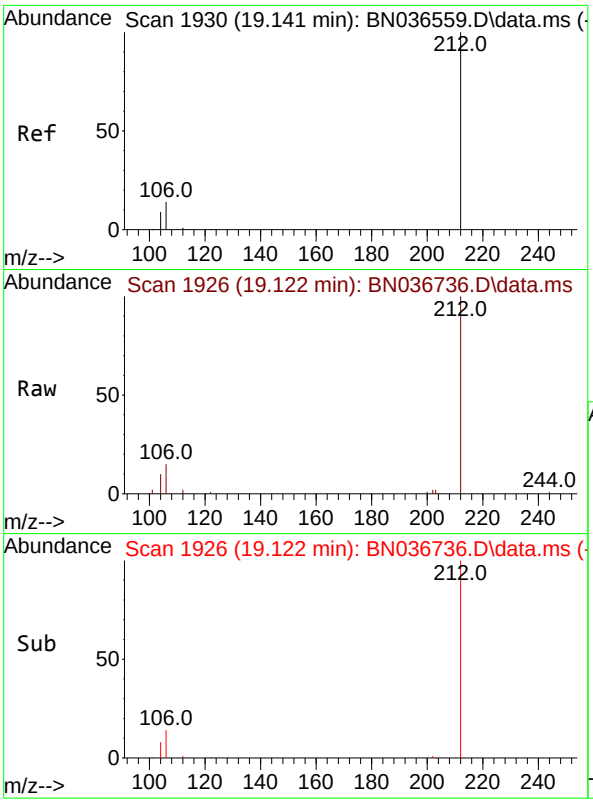


#26
Anthracene
Concen: 0.370 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:178 Resp: 6283

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.8	12.6	18.8



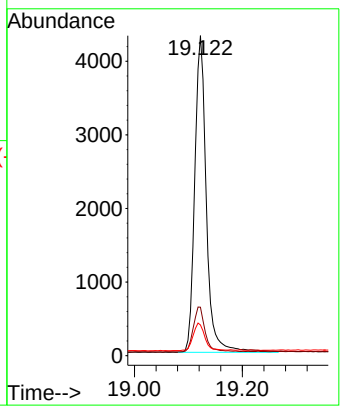


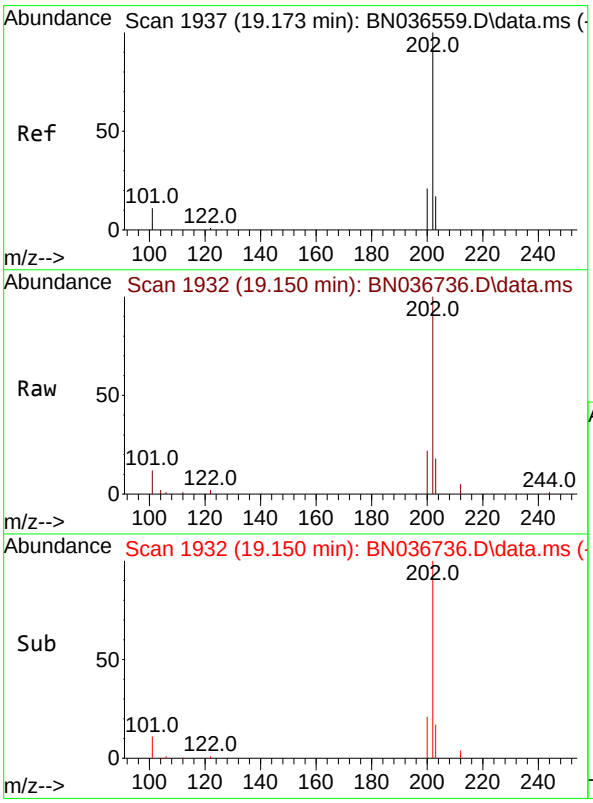
#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 6412

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9

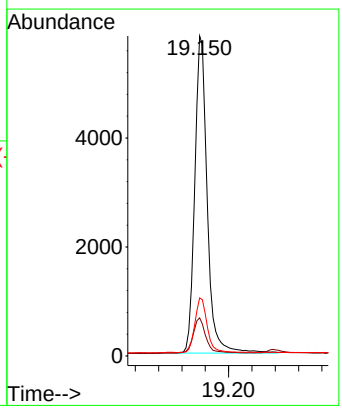


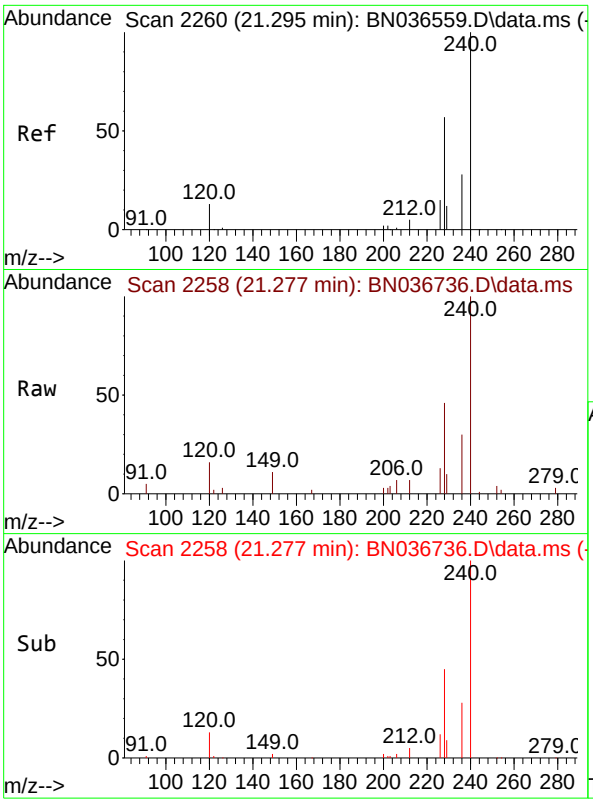


#28
Fluoranthene
Concen: 0.407 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:202 Resp: 8617

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3



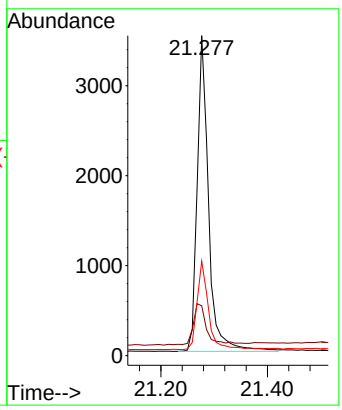


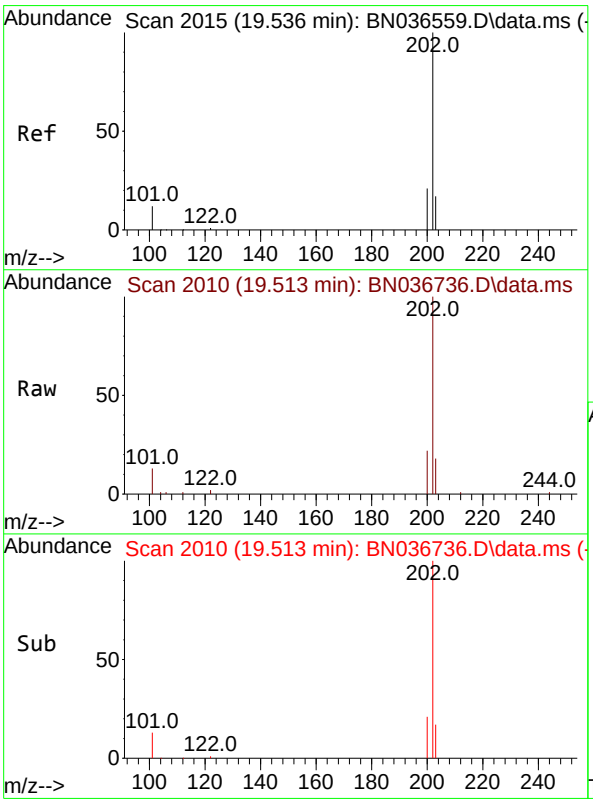
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 5211

Ion	Ratio	Lower	Upper
240	100		
120	15.6	14.6	22.0
236	29.6	24.1	36.1

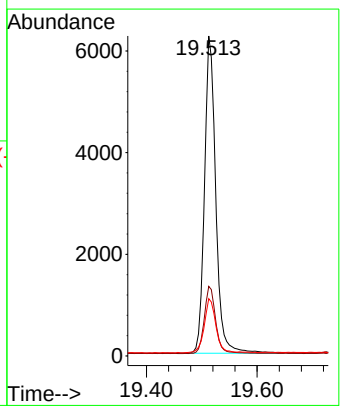


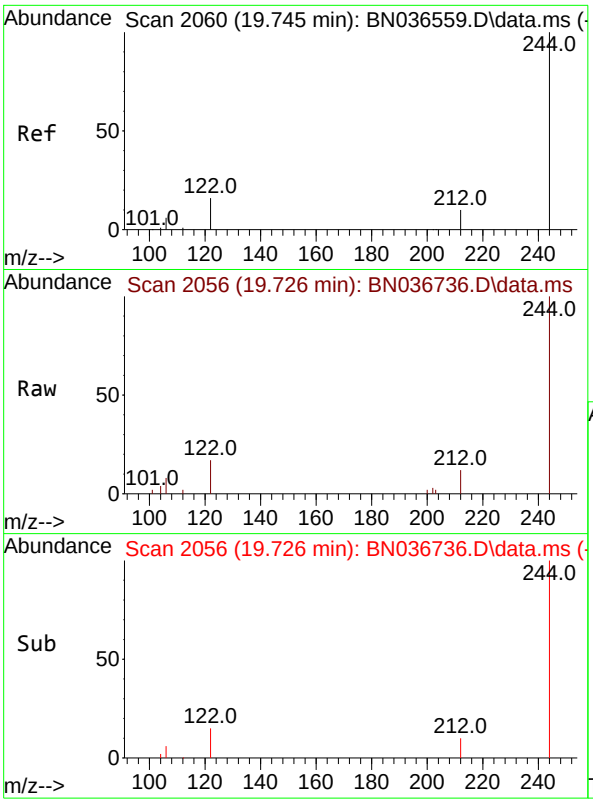


#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:202 Resp: 8868

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.4	14.1	21.1



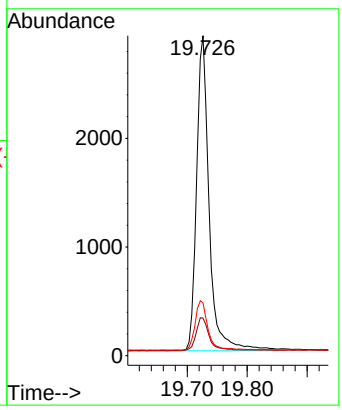


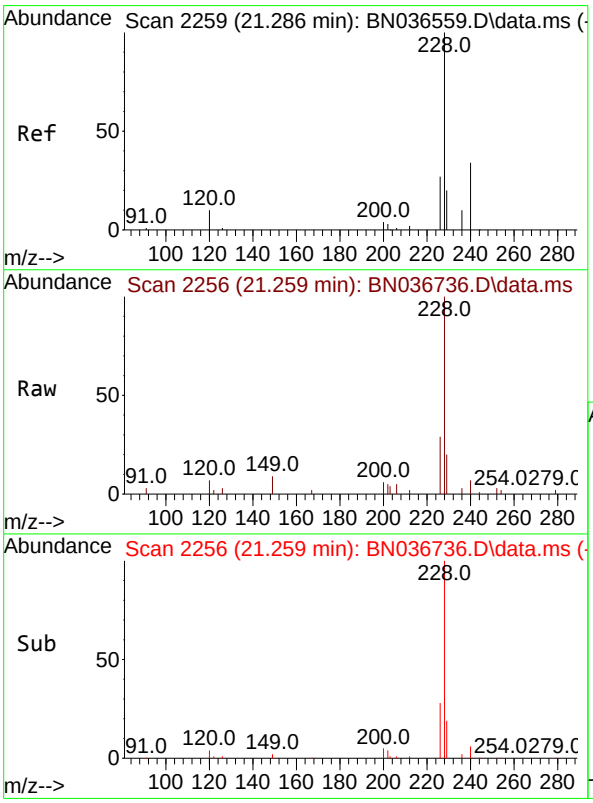
#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 4220

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	16.5	13.9	20.9

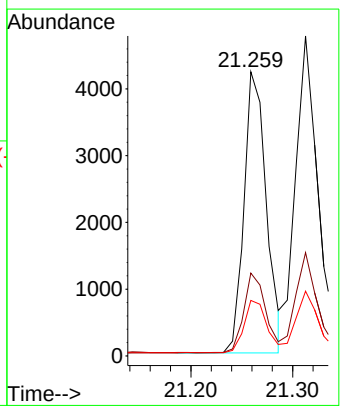


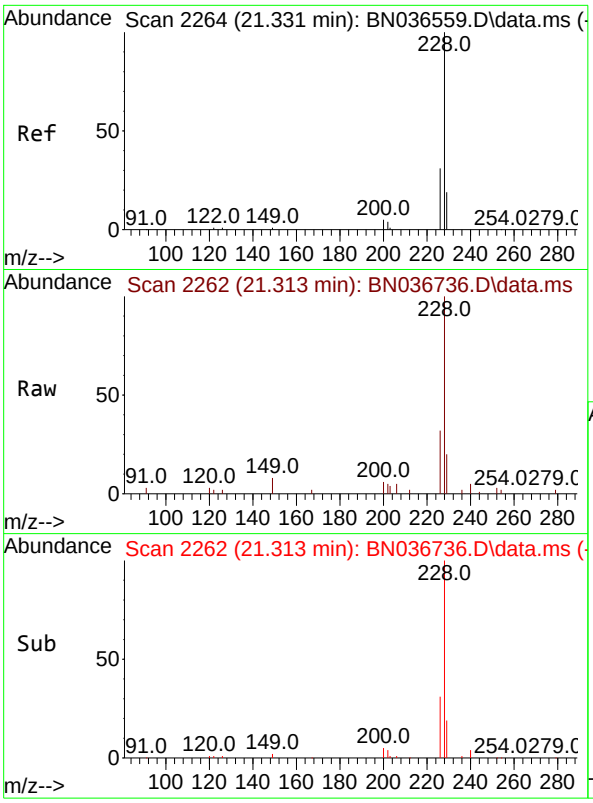


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:228 Resp: 6412

Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.5	33.7
229	19.5	16.6	25.0



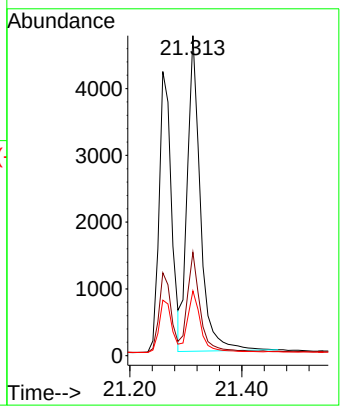


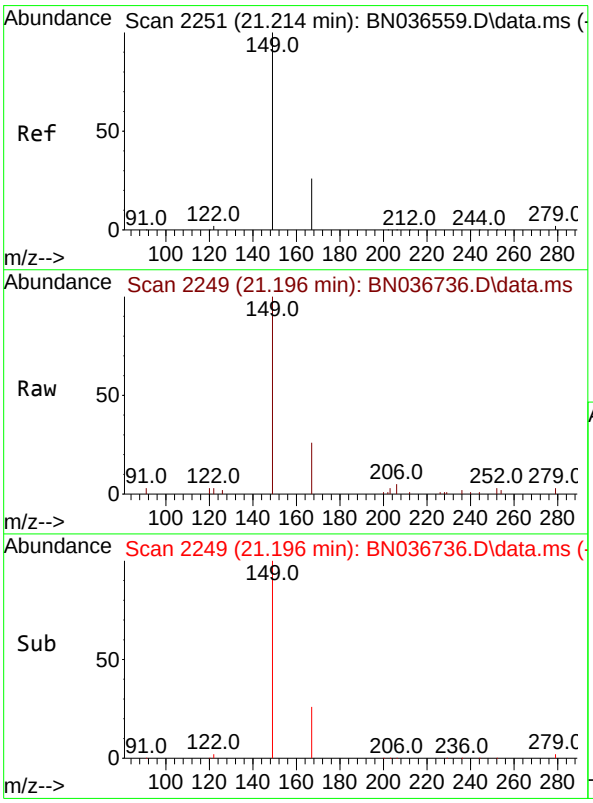
#33
Chrysene
Concen: 0.387 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 7670

Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.3	37.9
229	20.2	15.8	23.8

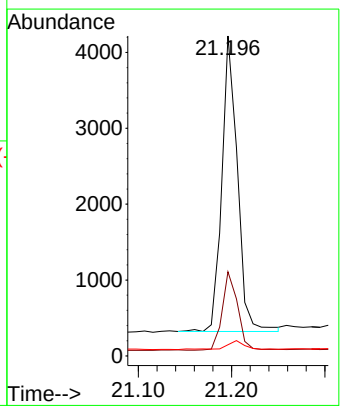


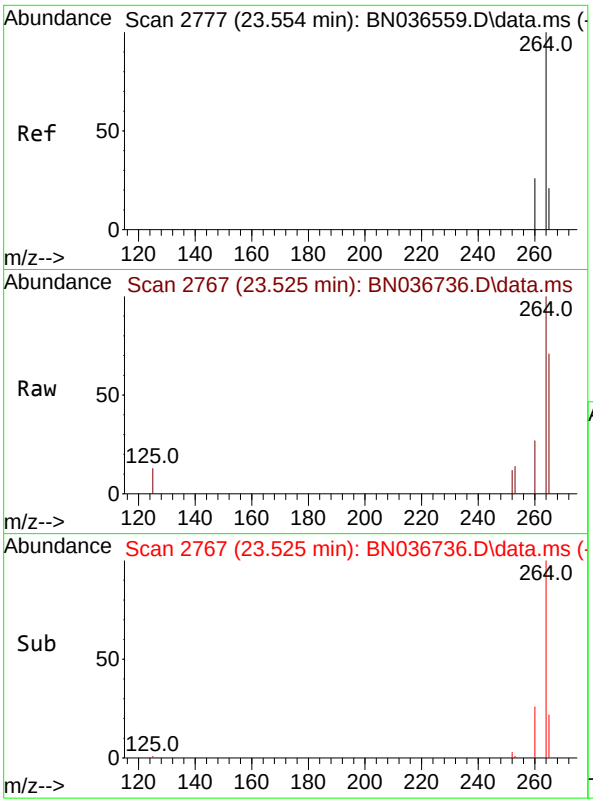


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.349 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:149 Resp: 4505

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.9	3.6	5.4#



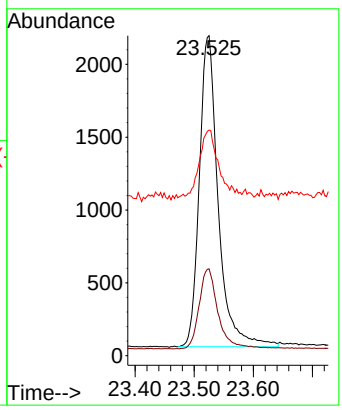


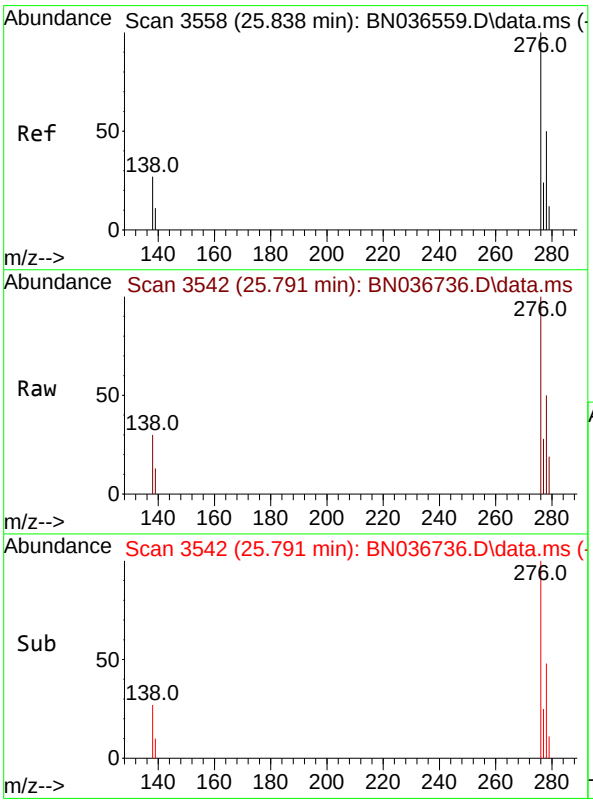
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 4739

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	70.5	88.1	132.1#

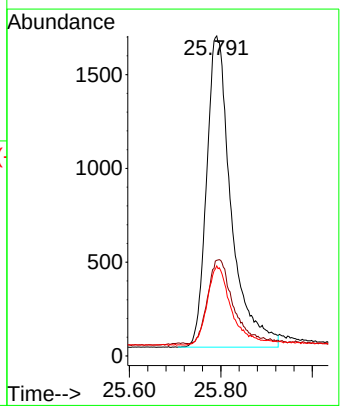


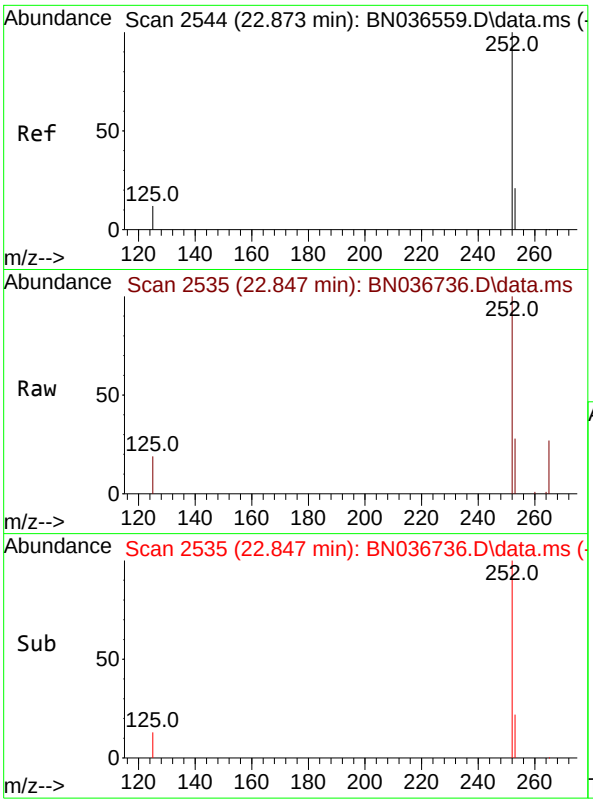


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.362 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.047 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:276 Resp: 6199

Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.4	35.2
277	24.9	20.0	30.0



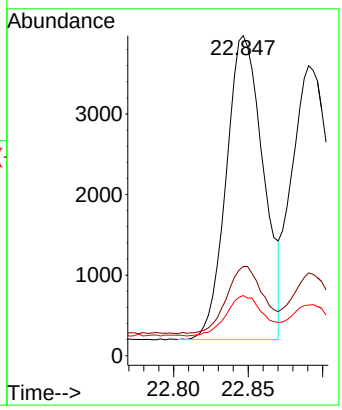


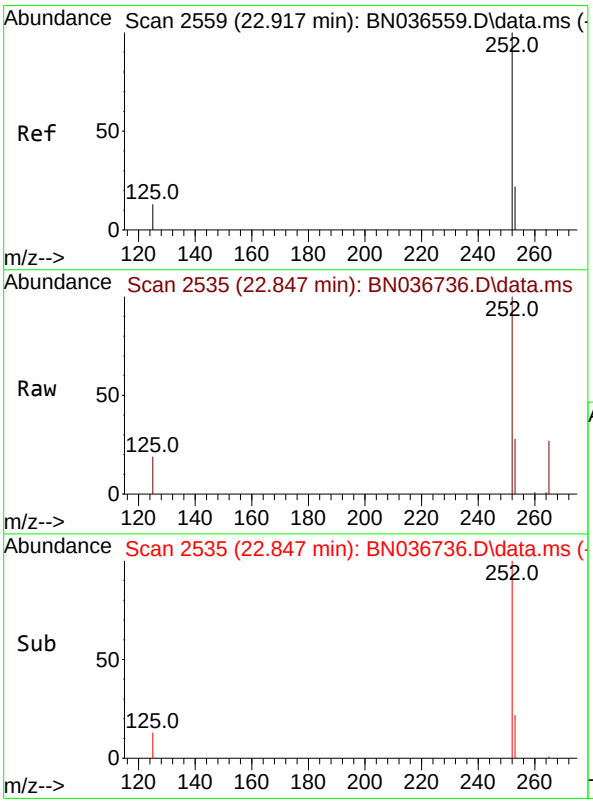
#37
Benzo(b)fluoranthene
Concen: 0.378 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6514

Ion	Ratio	Lower	Upper
252	100		
253	27.9	23.9	35.9
125	18.8	17.4	26.2

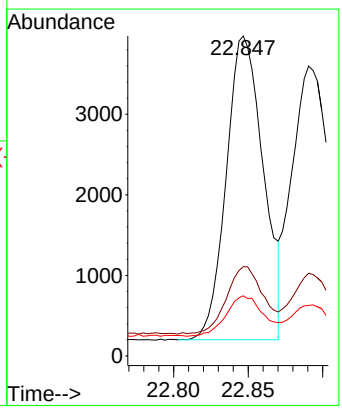


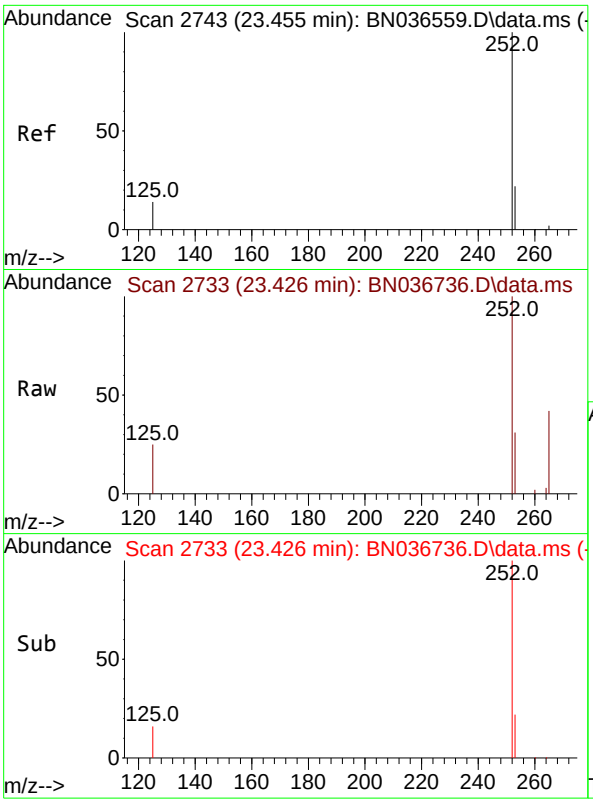


#38
Benzo(k)fluoranthene
Concen: 0.360 ng
RT: 22.847 min Scan# 2535
Delta R.T. -0.070 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:252 Resp: 6514

Ion	Ratio	Lower	Upper
252	100		
253	27.9	24.6	36.8
125	18.8	17.8	26.8



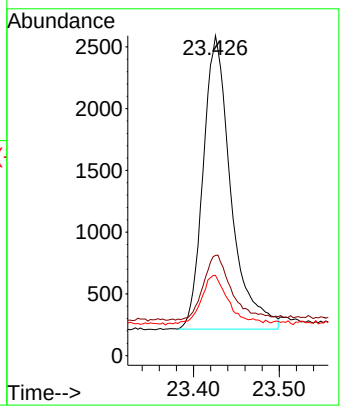


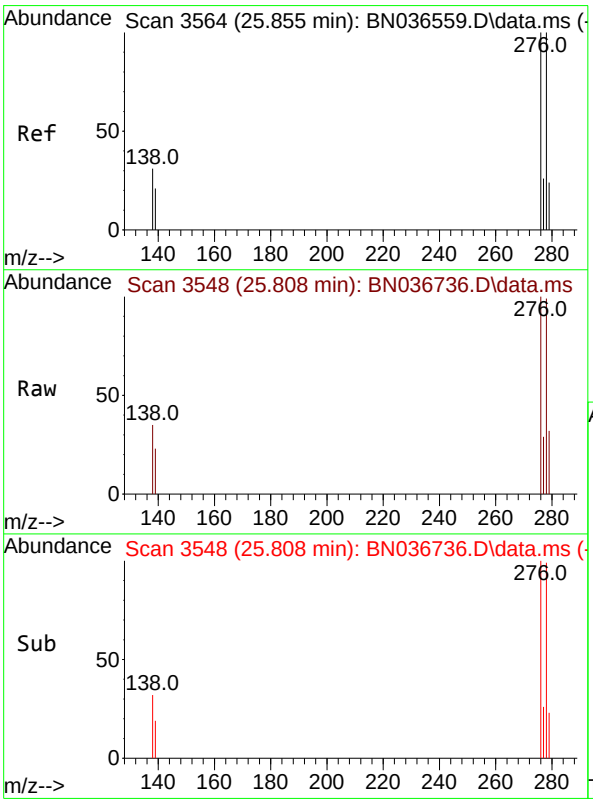
#39
Benzo(a)pyrene
Concen: 0.368 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5338

Ion	Ratio	Lower	Upper
252	100		
253	31.3	27.8	41.8
125	25.1	22.7	34.1

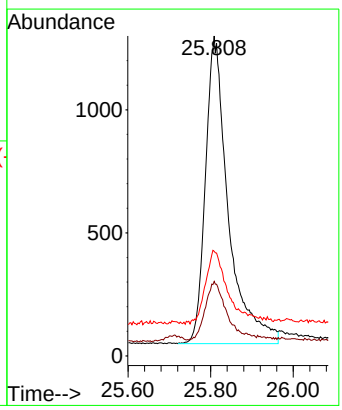


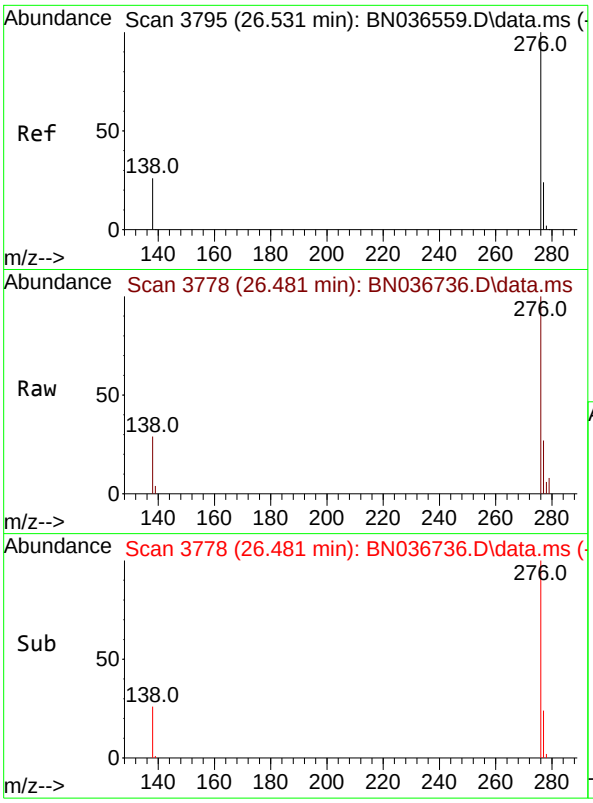


#40
Dibenzo(a,h)anthracene
Concen: 0.361 ng
RT: 25.808 min Scan# 3548
Delta R.T. -0.047 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Tgt Ion:278 Resp: 4803

Ion	Ratio	Lower	Upper
278	100		
139	23.3	20.8	31.2
279	32.7	28.8	43.2



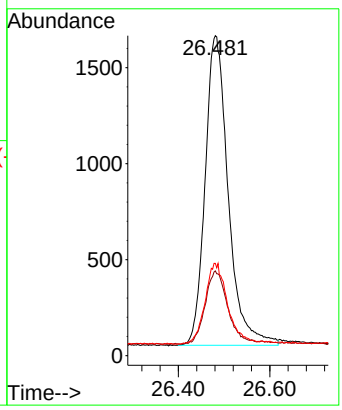


#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036736.D
Acq: 27 Mar 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 5667

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	28.9	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 27 16:33:11 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

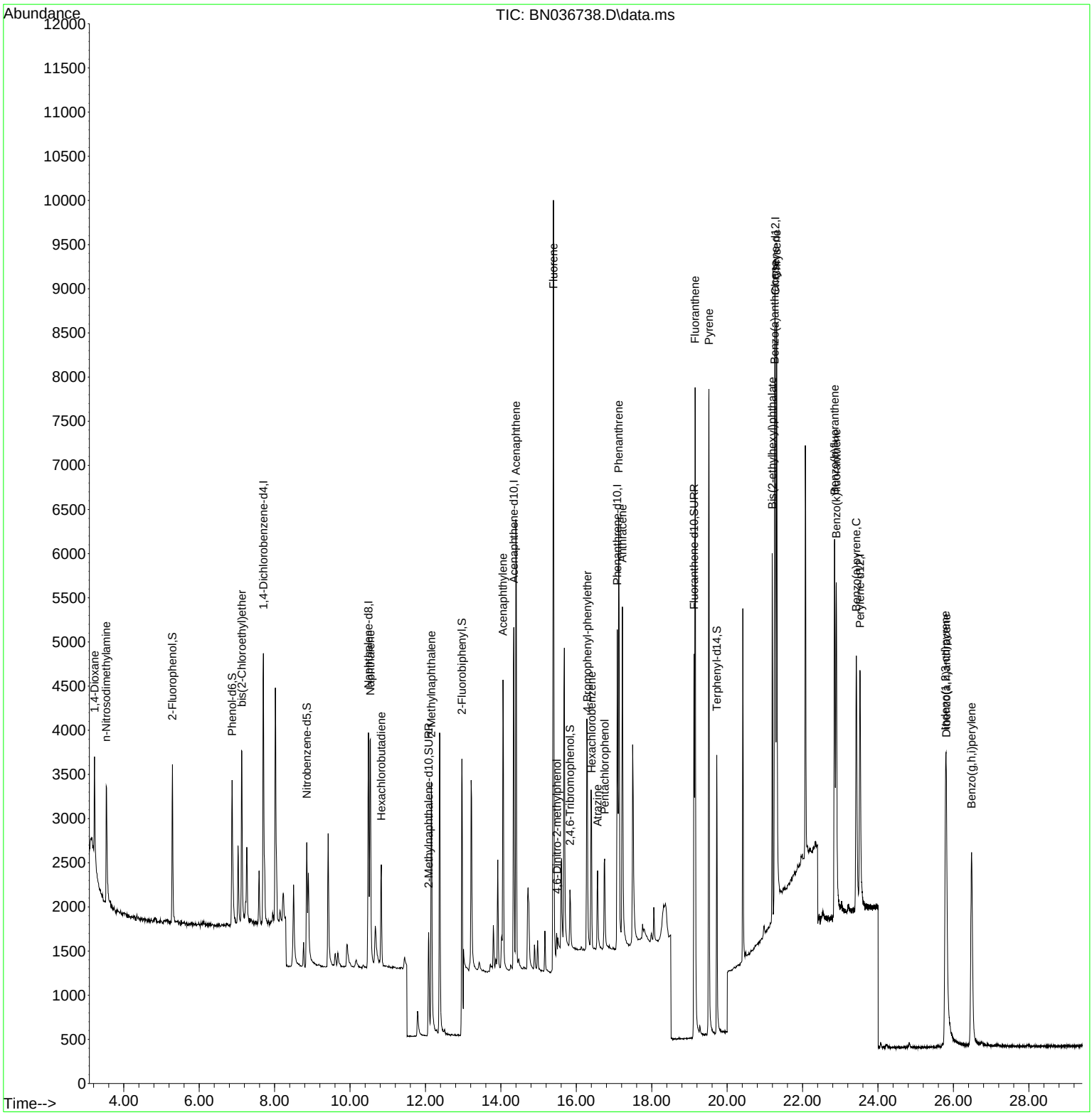
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1523	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	3803	0.400	ng		-0.02
13) Acenaphthene-d10	14.345	164	2348	0.400	ng		-0.02
19) Phenanthrene-d10	17.086	188	4989	0.400	ng		#-0.02
29) Chrysene-d12	21.277	240	4385	0.400	ng		-0.02
35) Perylene-d12	23.525	264	4045	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1294	0.365	ng		-0.02
5) Phenol-d6	6.872	99	1536	0.350	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1363	0.329	ng		-0.02
11) 2-Methylnaphthalene-d10	12.085	152	2034	0.360	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	414	0.389	ng		-0.02
15) 2-Fluorobiphenyl	12.968	172	4725	0.346	ng		-0.02
27) Fluoranthene-d10	19.122	212	5220	0.408	ng		-0.02
31) Terphenyl-d14	19.726	244	3465	0.330	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	721	0.427	ng		93
3) n-Nitrosodimethylamine	3.535	42	1301	0.381	ng	#	99
6) bis(2-Chloroethyl)ether	7.132	93	1533	0.338	ng		95
9) Naphthalene	10.541	128	4045	0.362	ng		98
10) Hexachlorobutadiene	10.829	225	955	0.363	ng	#	98
12) 2-Methylnaphthalene	12.156	142	2514	0.353	ng		96
16) Acenaphthylene	14.056	152	3861	0.348	ng		100
17) Acenaphthene	14.398	154	2582	0.356	ng		99
18) Fluorene	15.392	166	3631	0.370	ng		99
20) 4,6-Dinitro-2-methylph...	15.489	198	370	0.436	ng		81
21) 4-Bromophenyl-phenylether	16.292	248	1147	0.367	ng	#	80
22) Hexachlorobenzene	16.404	284	1358	0.360	ng		97
23) Atrazine	16.565	200	991	0.395	ng		95
24) Pentachlorophenol	16.751	266	662	0.385	ng		95
25) Phenanthrene	17.124	178	5704	0.381	ng		100
26) Anthracene	17.223	178	4989	0.369	ng		99
28) Fluoranthene	19.150	202	6959	0.414	ng		99
30) Pyrene	19.517	202	7305	0.341	ng		100
32) Benzo(a)anthracene	21.259	228	5558	0.365	ng		98
33) Chrysene	21.313	228	6163	0.370	ng		100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3633	0.335	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.791	276	5346	0.366	ng		98
37) Benzo(b)fluoranthene	22.850	252	5508	0.374	ng		97
38) Benzo(k)fluoranthene	22.893	252	5599	0.363	ng		96
39) Benzo(a)pyrene	23.426	252	4841	0.391	ng		96
40) Dibenzo(a,h)anthracene	25.814	278	4114	0.362	ng		95
41) Benzo(g,h,i)perylene	26.481	276	4859	0.374	ng		97

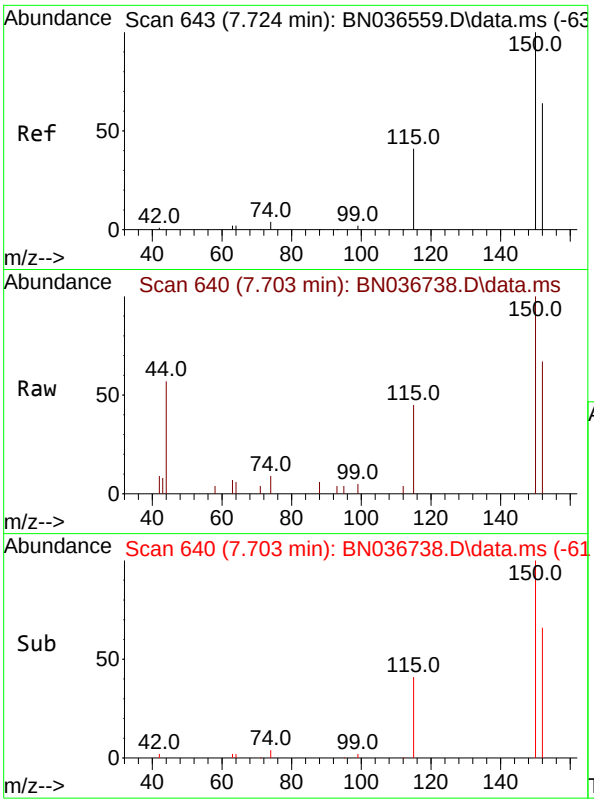
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036738.D
Acq On : 27 Mar 2025 15:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 27 16:33:11 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



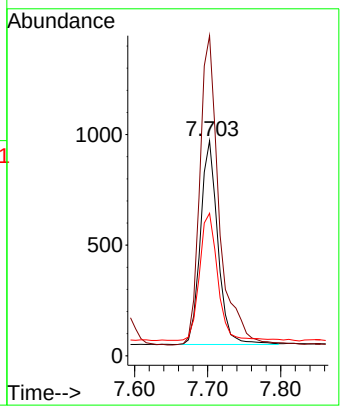


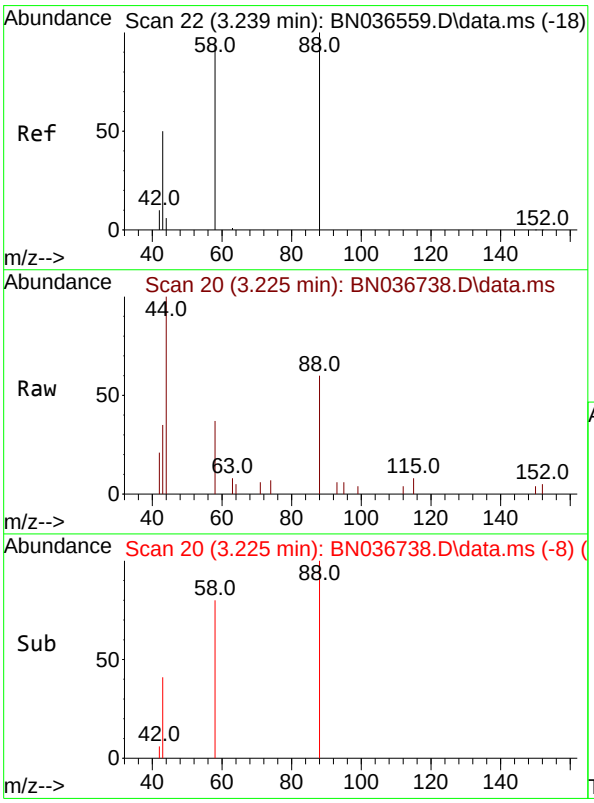
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1523

Ion	Ratio	Lower	Upper
152	100		
150	148.9	123.7	185.5
115	66.3	54.3	81.5

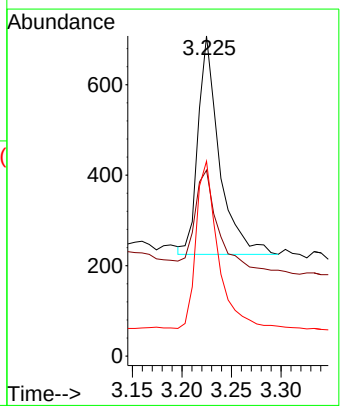


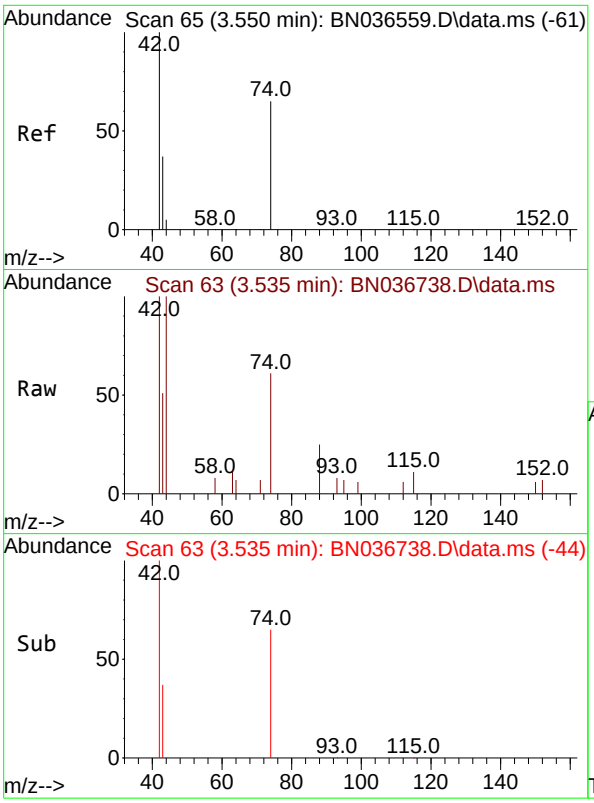


#2
1,4-Dioxane
Concen: 0.427 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 88 Resp: 721

Ion	Ratio	Lower	Upper
88	100		
43	52.3	37.8	56.8
58	78.6	67.4	101.2



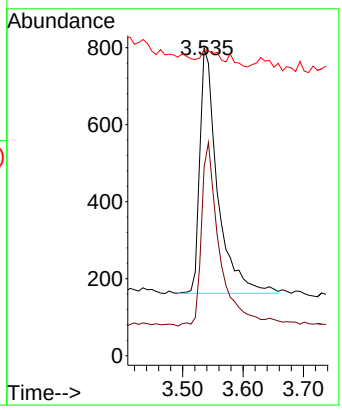


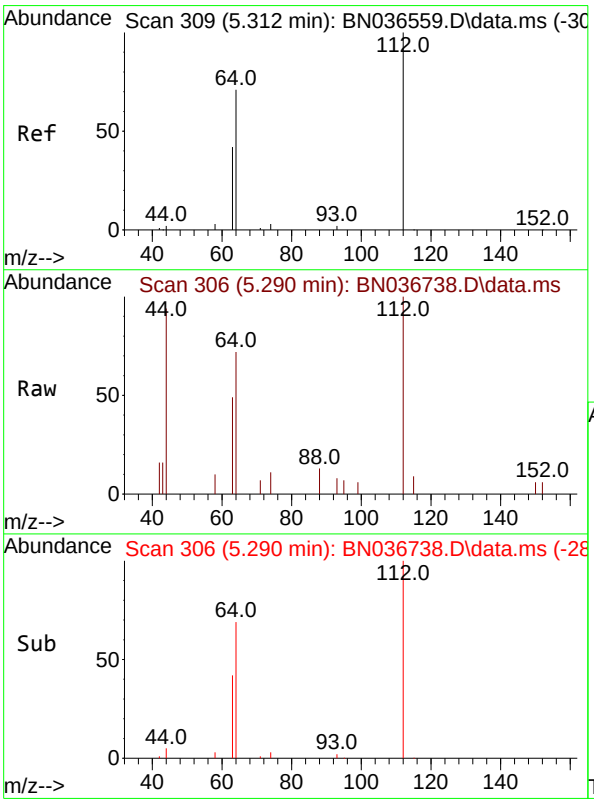
#3
n-Nitrosodimethylamine
Concen: 0.381 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1301

Ion	Ratio	Lower	Upper
42	100		
74	75.9	60.6	90.8
44	4.1	6.3	9.5#

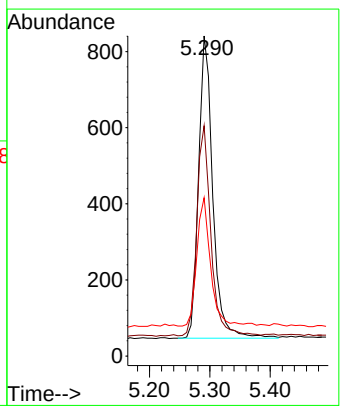


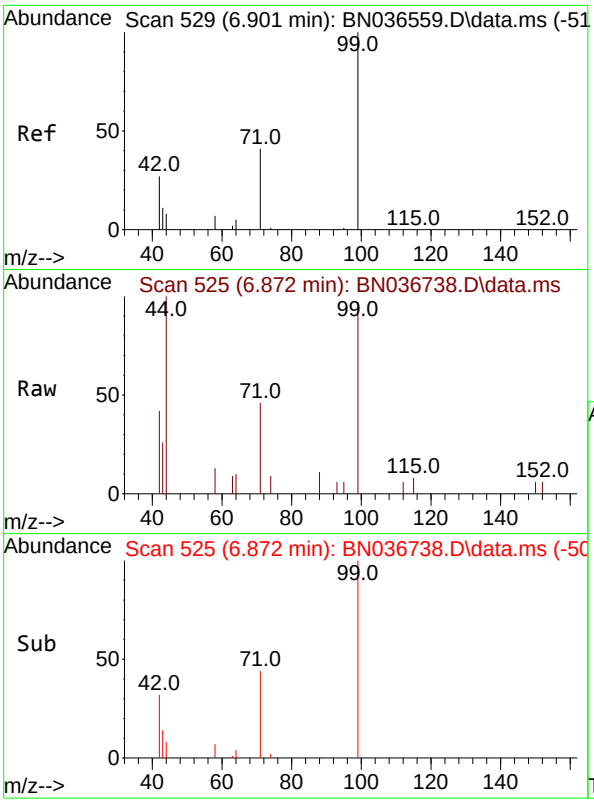


#4
2-Fluorophenol
Concen: 0.365 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:112 Resp: 1294

Ion	Ratio	Lower	Upper
112	100		
64	69.9	53.1	79.7
63	40.8	31.8	47.8



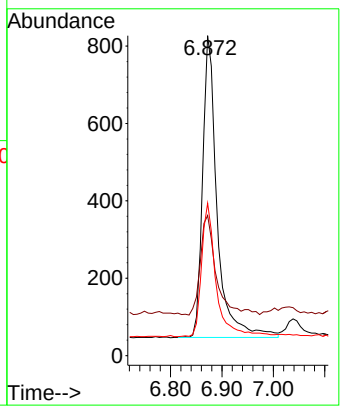


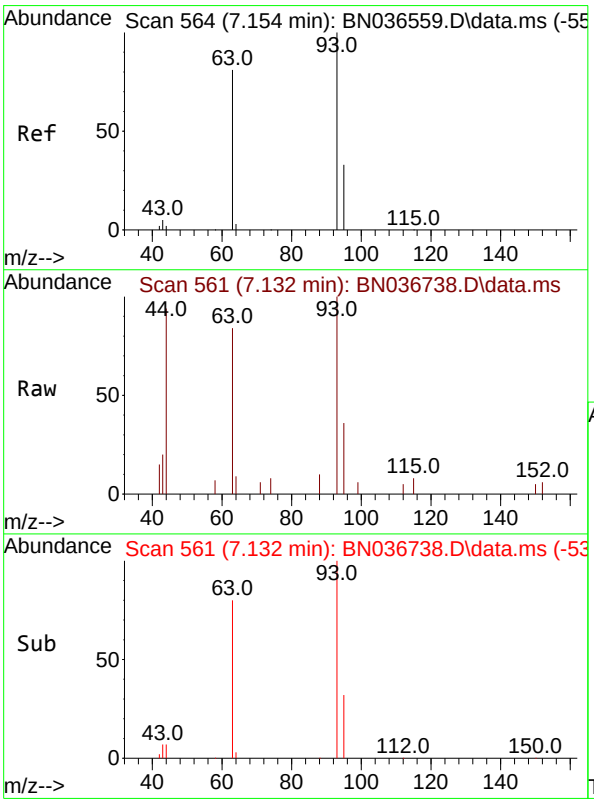
#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1536

Ion	Ratio	Lower	Upper
99	100		
42	35.2	26.5	39.7
71	44.3	34.1	51.1

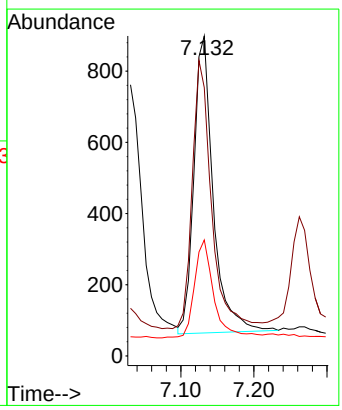


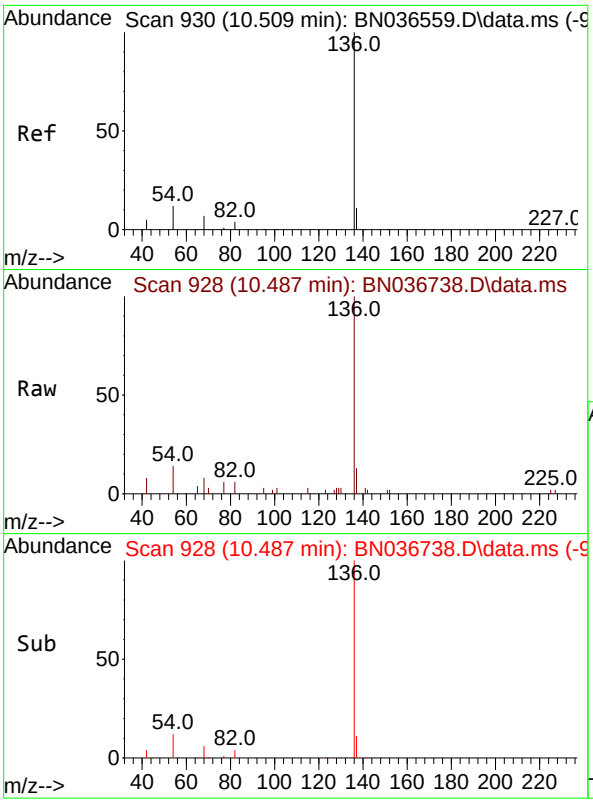


#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.022 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 93 Resp: 1533

Ion	Ratio	Lower	Upper
93	100		
63	90.0	67.7	101.5
95	33.1	25.6	38.4



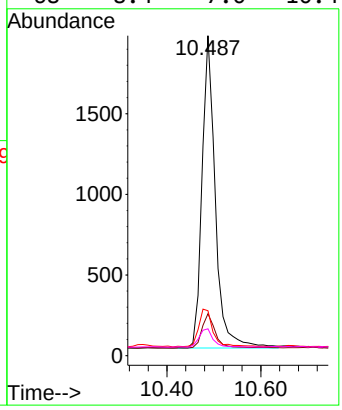


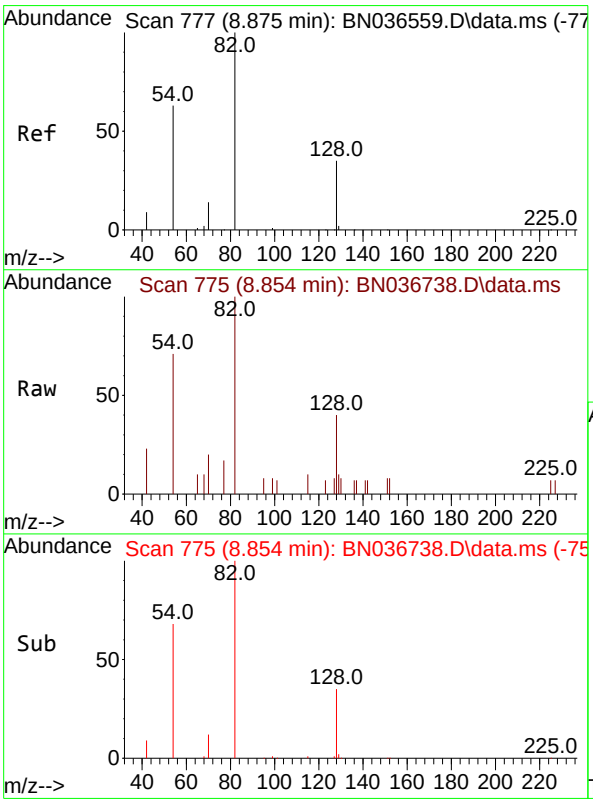
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 3803

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	14.0	11.5	17.3
68	8.4	7.0	10.4

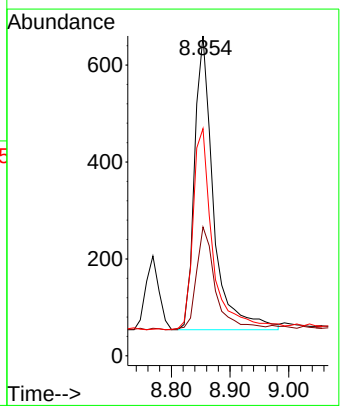


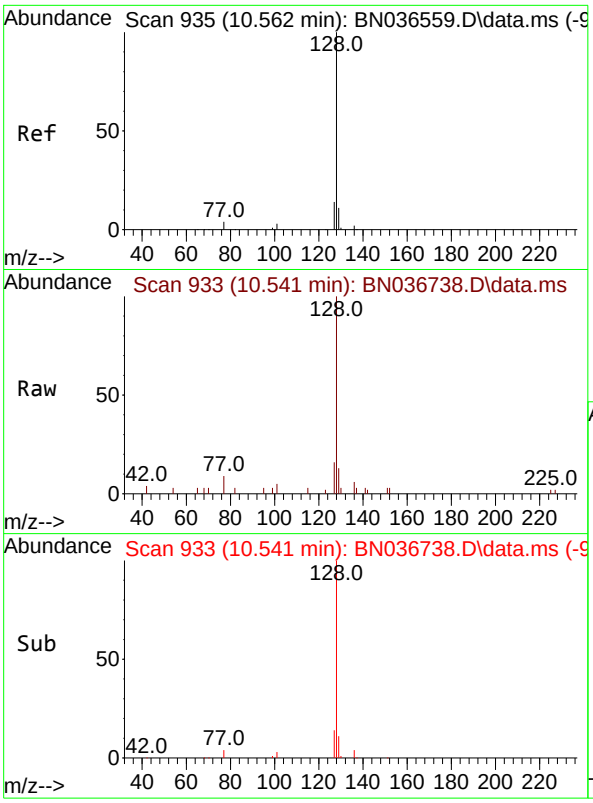


#8
Nitrobenzene-d5
Concen: 0.329 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion: 82 Resp: 1363

Ion	Ratio	Lower	Upper
82	100		
128	40.3	30.6	45.8
54	71.1	52.2	78.4



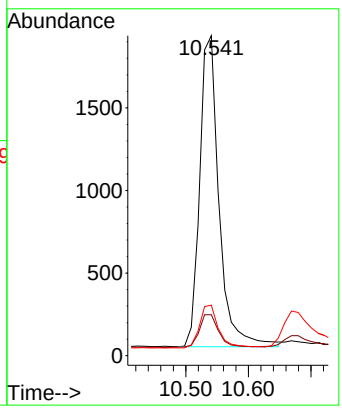


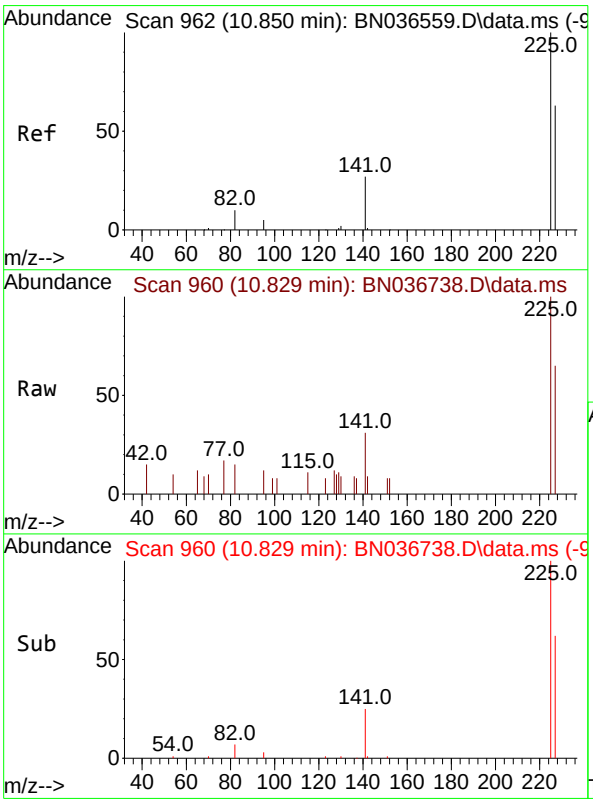
#9
Naphthalene
Concen: 0.362 ng
RT: 10.541 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4045

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.8	11.8	17.8

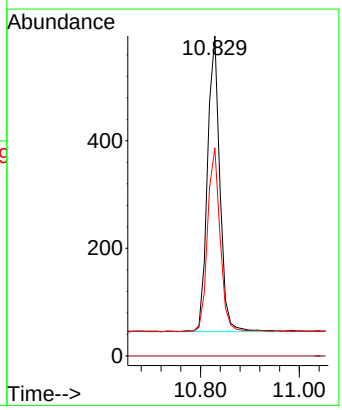


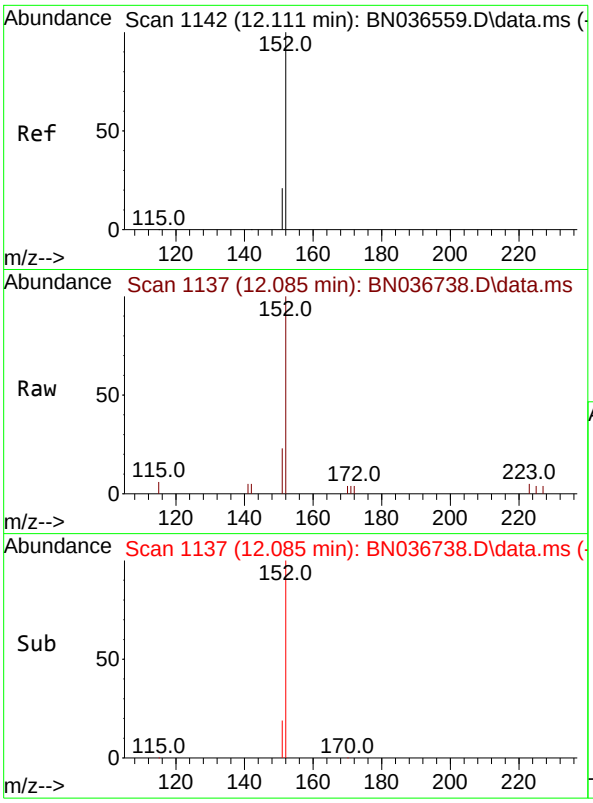


#10
Hexachlorobutadiene
Concen: 0.363 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:225 Resp: 955

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



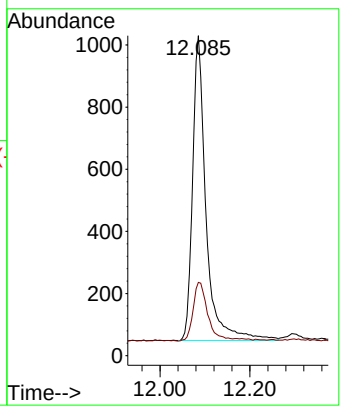


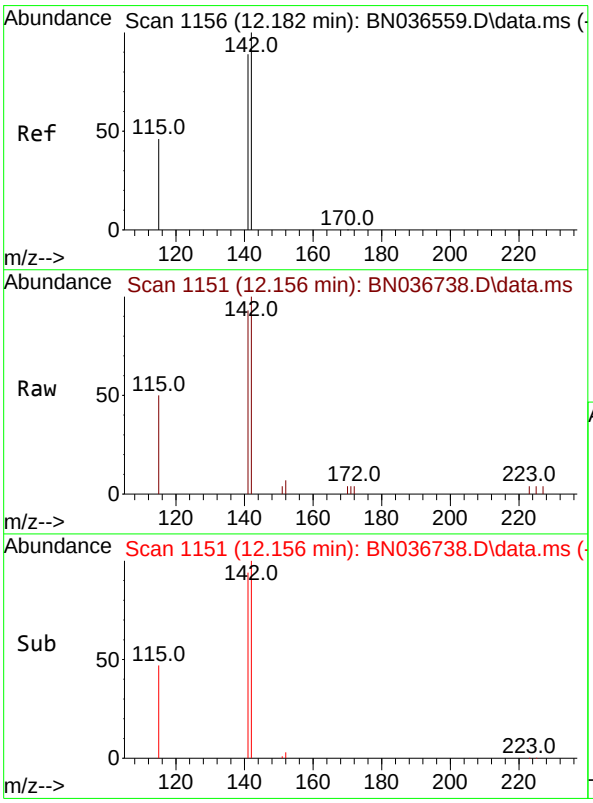
#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2034

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

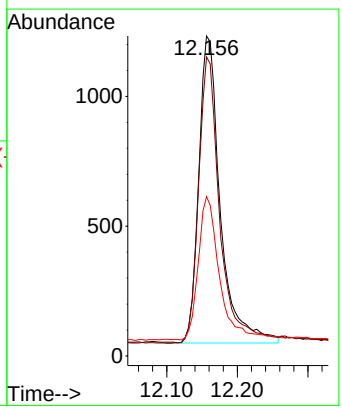


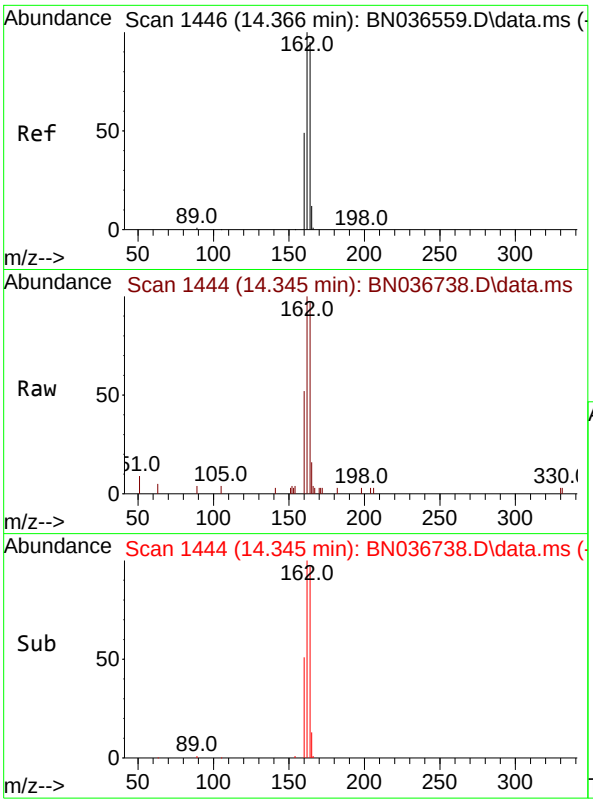


#12
2-Methylnaphthalene
Concen: 0.353 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:142 Resp: 2514

Ion	Ratio	Lower	Upper
142	100		
141	93.4	71.7	107.5
115	49.8	38.3	57.5



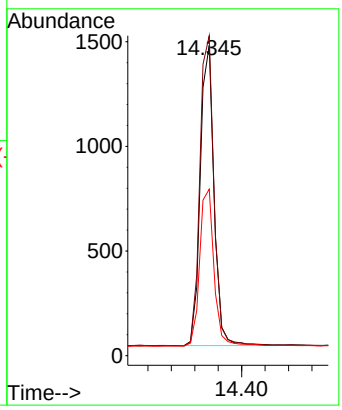


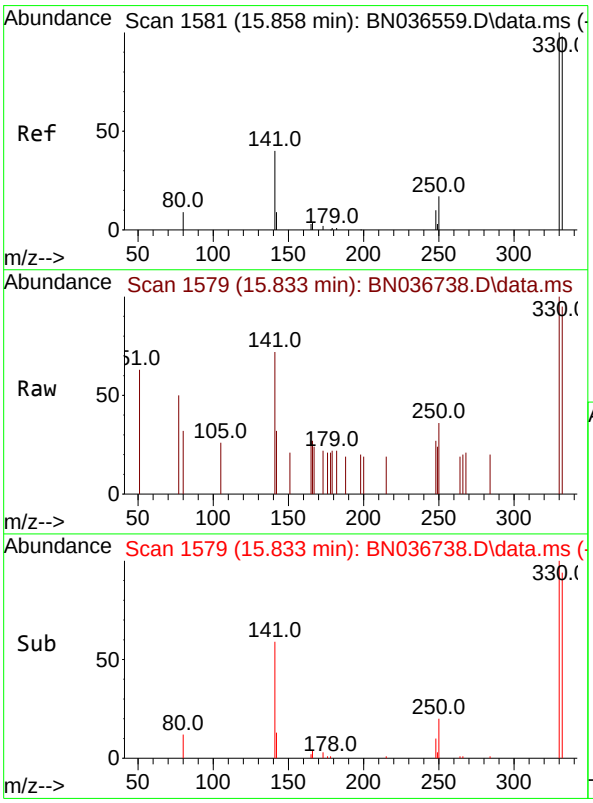
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2348

Ion	Ratio	Lower	Upper
164	100		
162	103.1	84.2	126.2
160	53.7	42.2	63.2

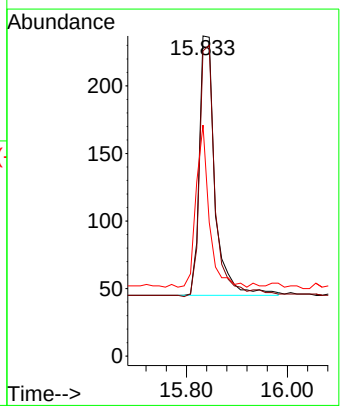


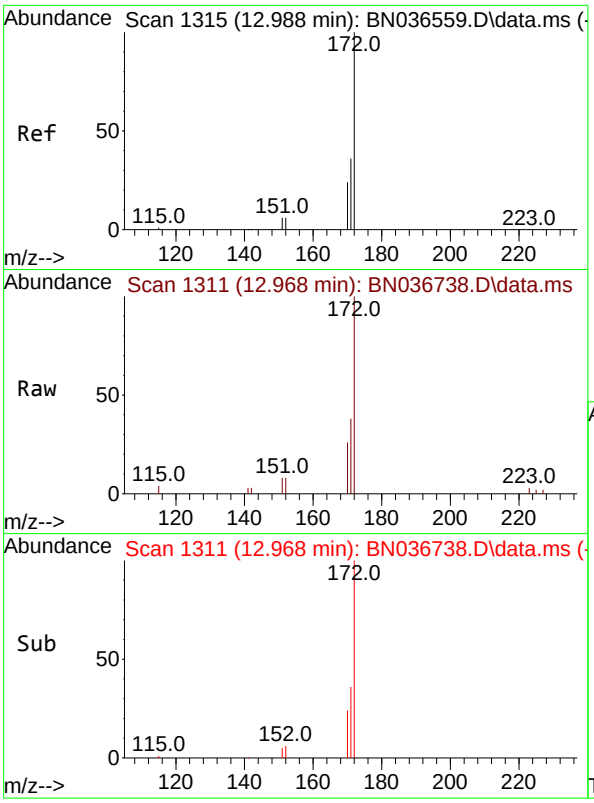


#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:330 Resp: 414

Ion	Ratio	Lower	Upper
330	100		
332	97.6	75.2	112.8
141	52.7	43.4	65.2



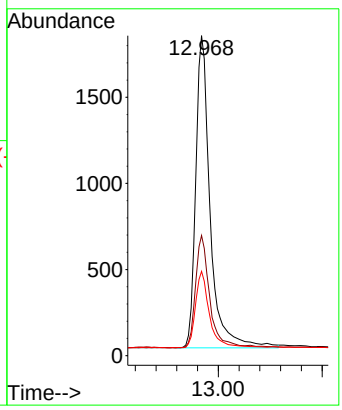


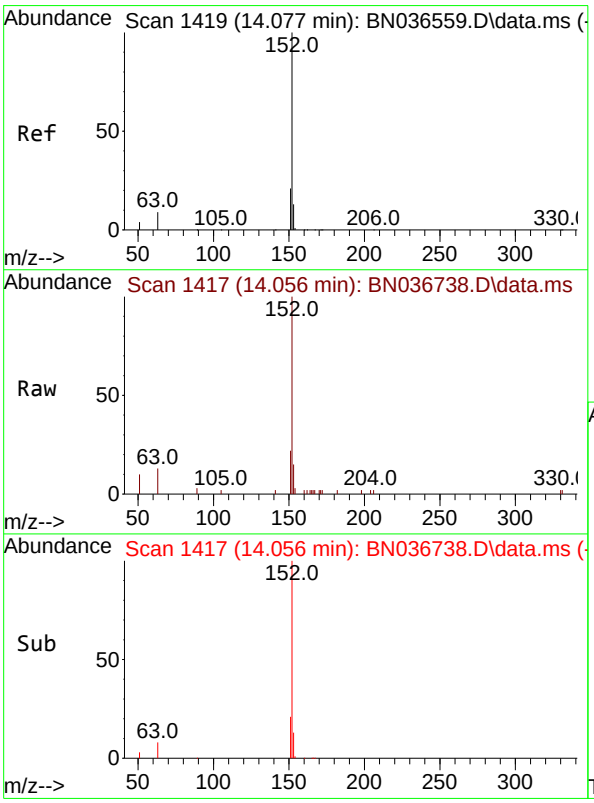
#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.968 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 4725

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.5	44.3
170	26.3	20.2	30.4

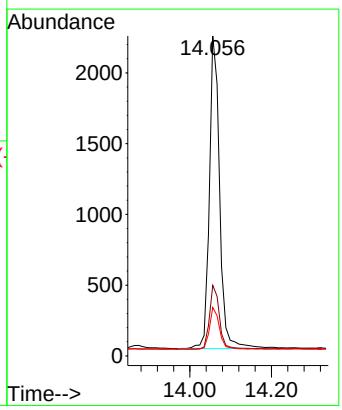


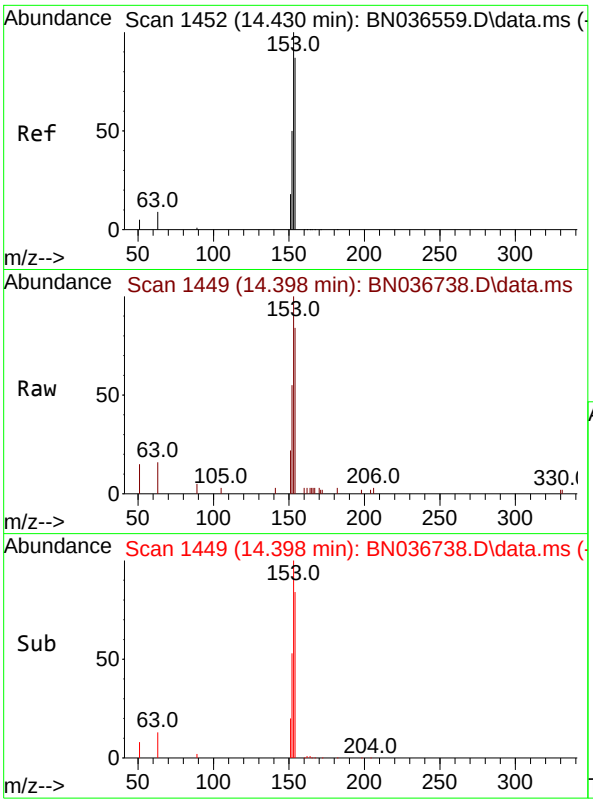


#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:152 Resp: 3861

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.1	10.6	15.8



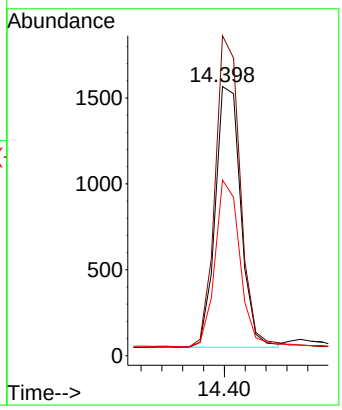


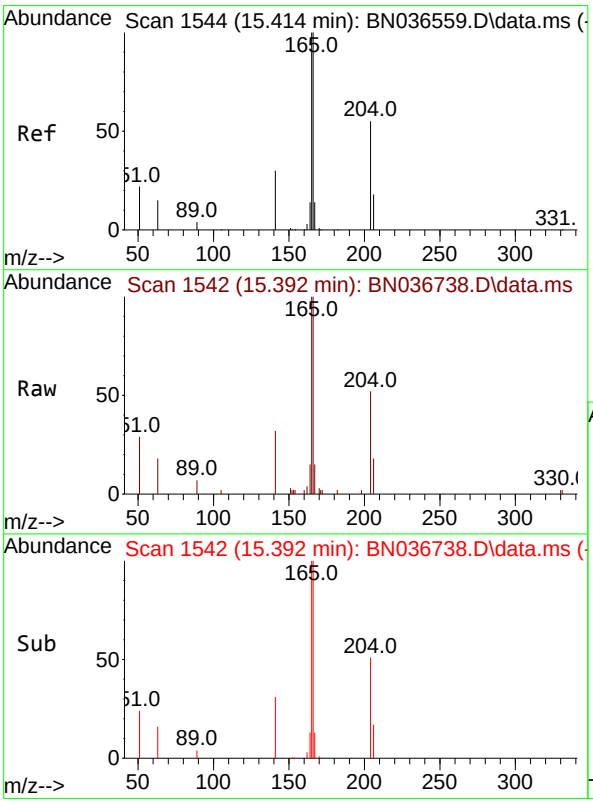
#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 2582

Ion	Ratio	Lower	Upper
154	100		
153	119.8	94.1	141.1
152	62.5	49.8	74.6

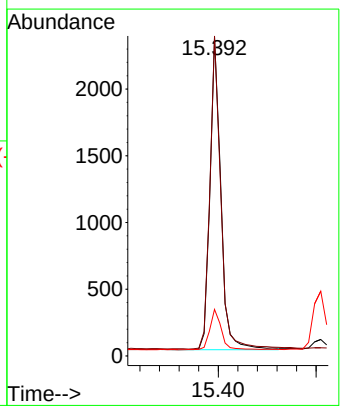


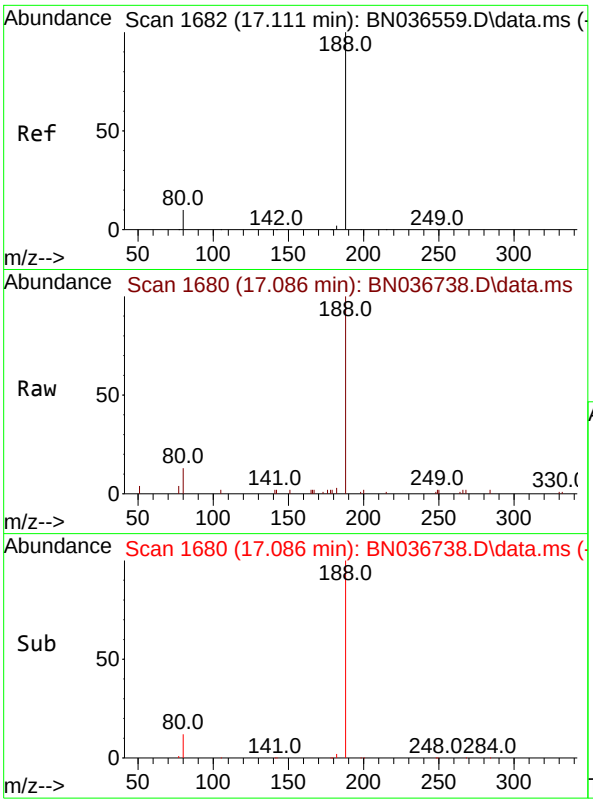


#18
Fluorene
Concen: 0.370 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:166 Resp: 3631

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.7	10.6	15.8



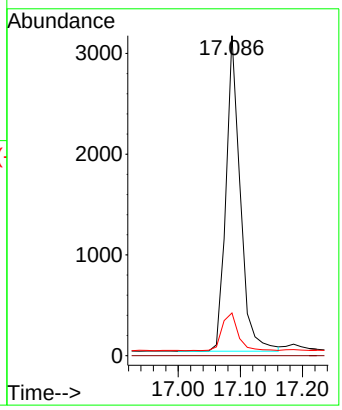


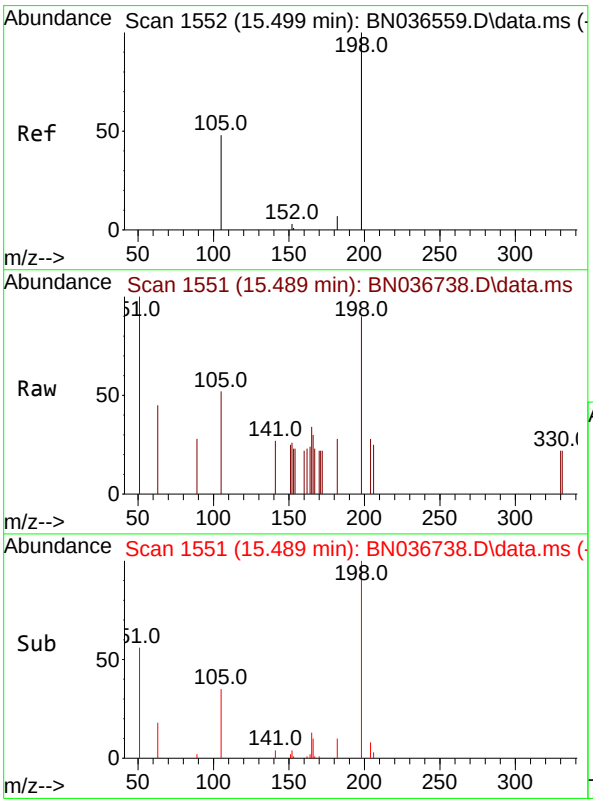
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 4989

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	8.8	13.2#

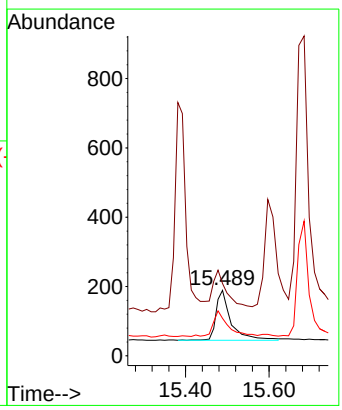


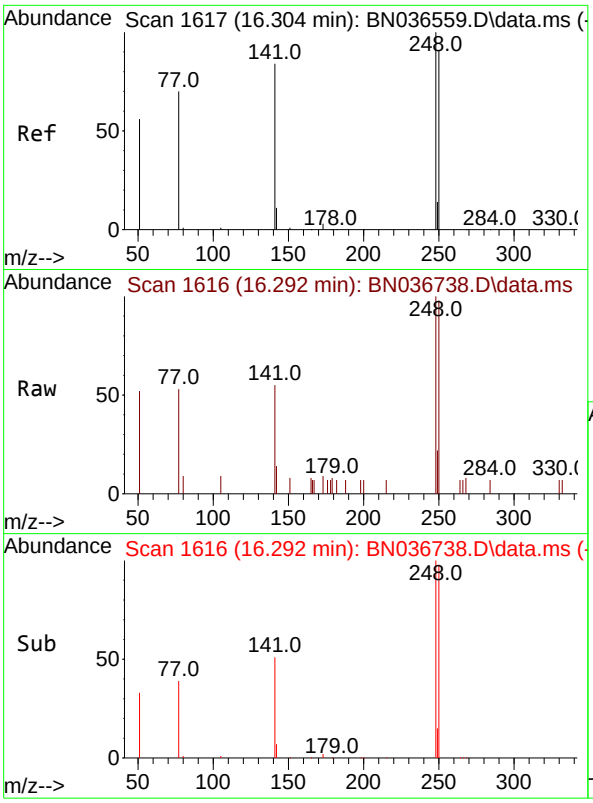


#20
4,6-Dinitro-2-methylphenol
Concen: 0.436 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:198 Resp: 370

Ion	Ratio	Lower	Upper
198	100		
51	110.6	107.9	161.9
105	57.1	56.2	84.2



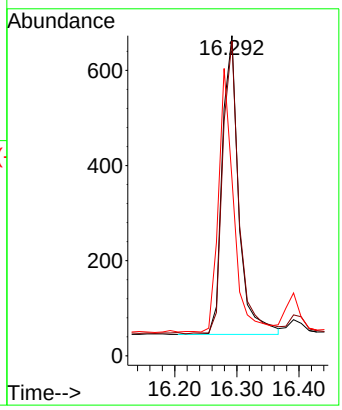


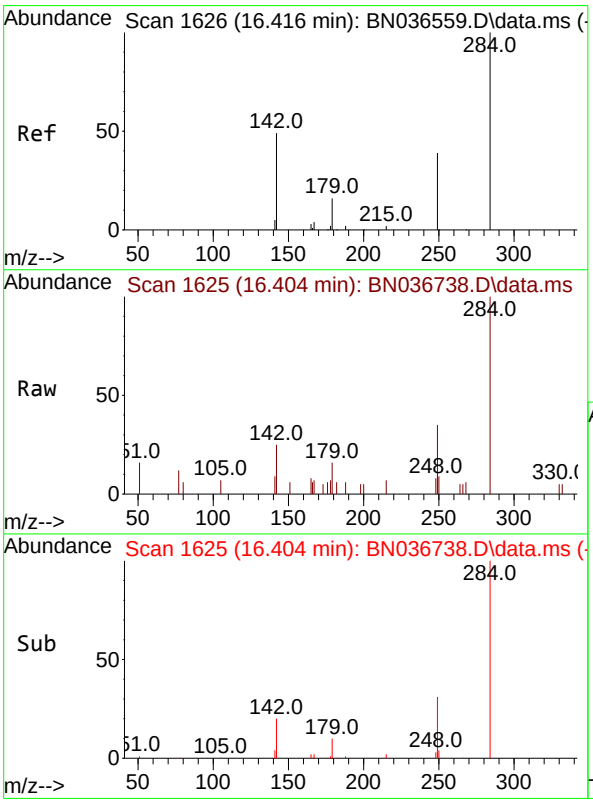
#21
4-Bromophenyl-phenylether
Concen: 0.367 ng
RT: 16.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1147

Ion	Ratio	Lower	Upper
248	100		
250	98.4	73.0	109.6
141	55.3	68.6	103.0#

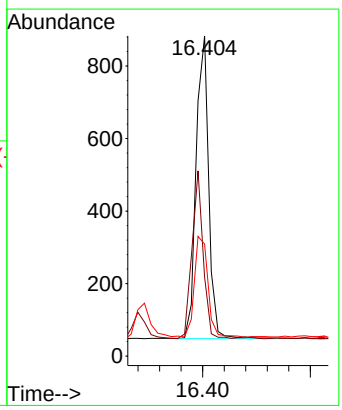


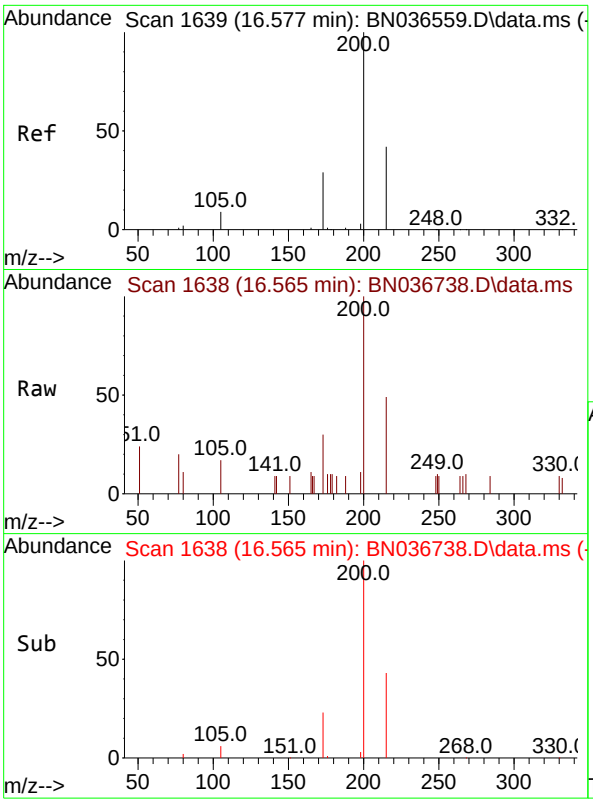


#22
Hexachlorobenzene
Concen: 0.360 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:284 Resp: 1358

Ion	Ratio	Lower	Upper
284	100		
142	48.9	37.0	55.4
249	36.3	28.1	42.1



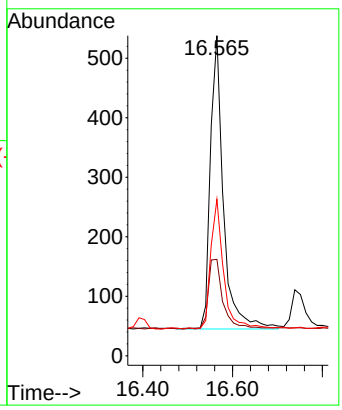


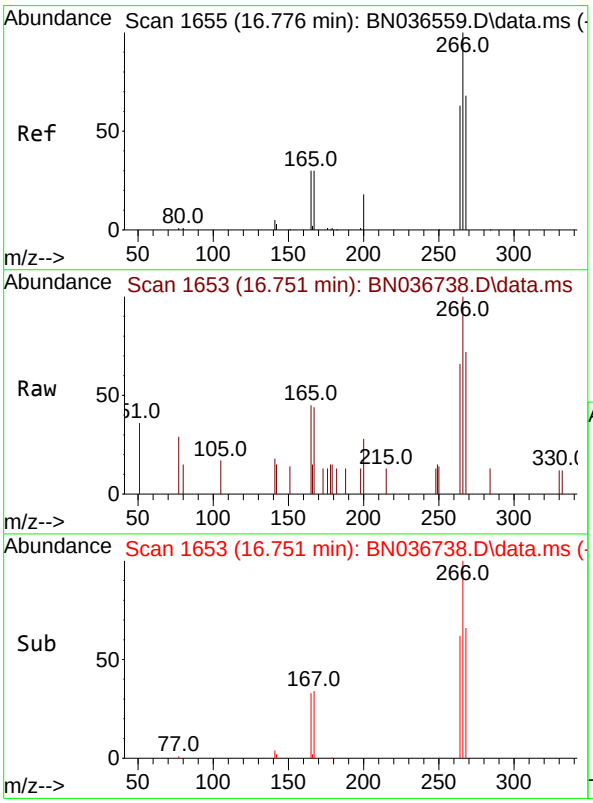
#23
Atrazine
Concen: 0.395 ng
RT: 16.565 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 991

Ion	Ratio	Lower	Upper
200	100		
173	30.1	27.3	40.9
215	48.9	36.8	55.2

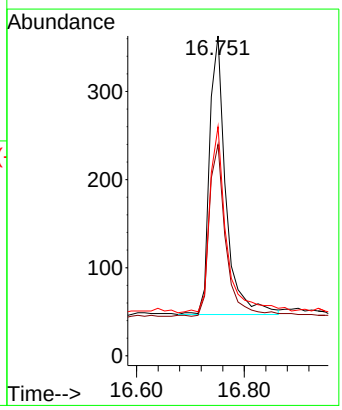


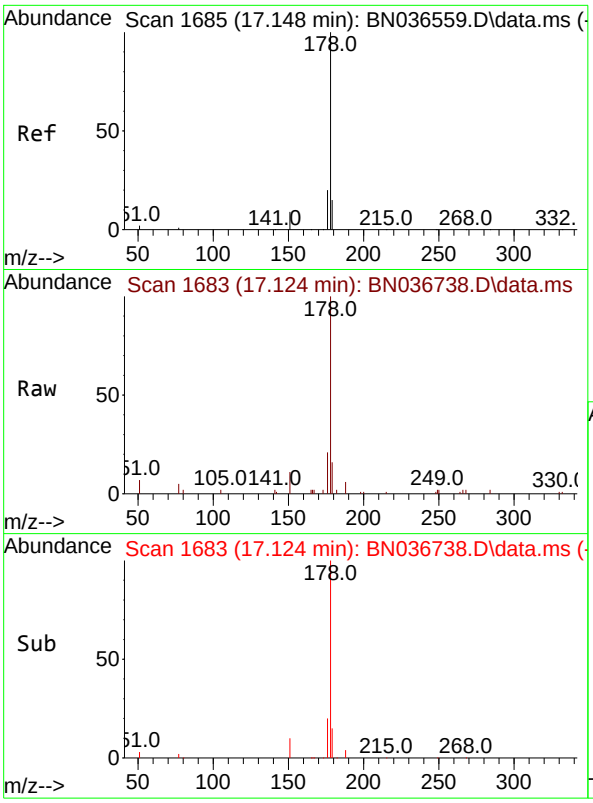


#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	63.6	49.6	74.4
268	69.5	50.9	76.3



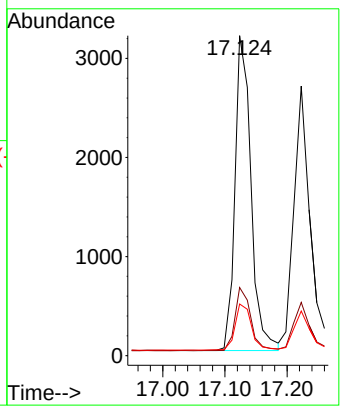


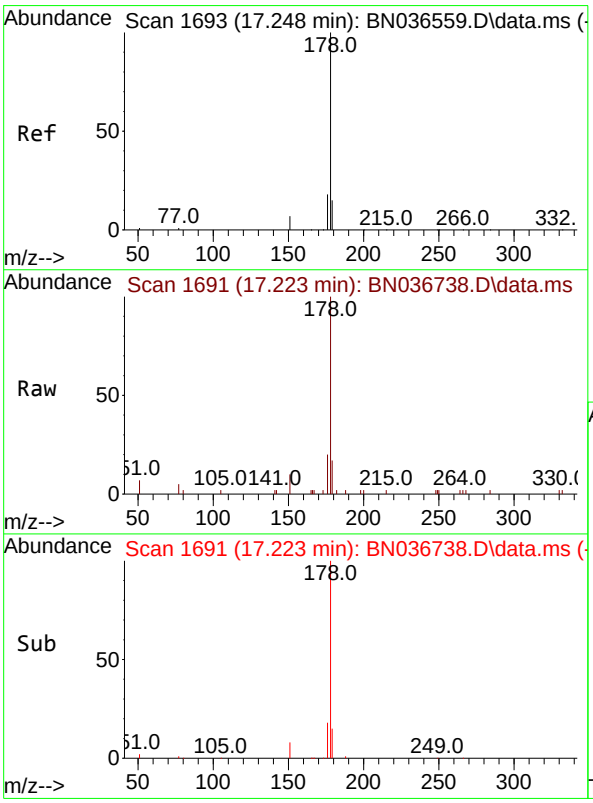
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 5704

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

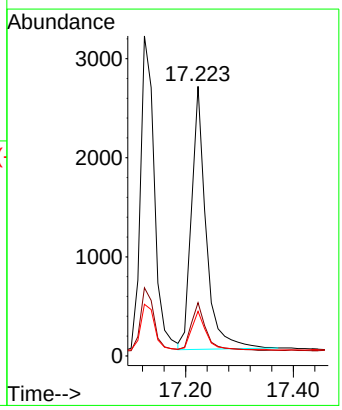


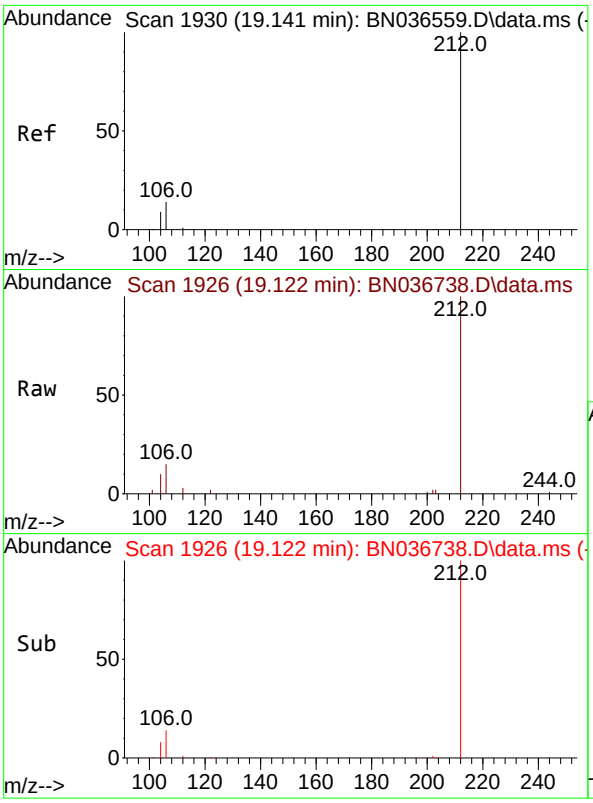


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:178 Resp: 4989

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.2	12.6	18.8



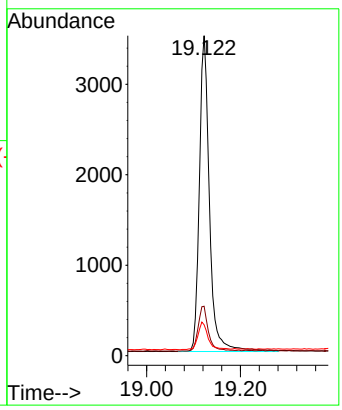


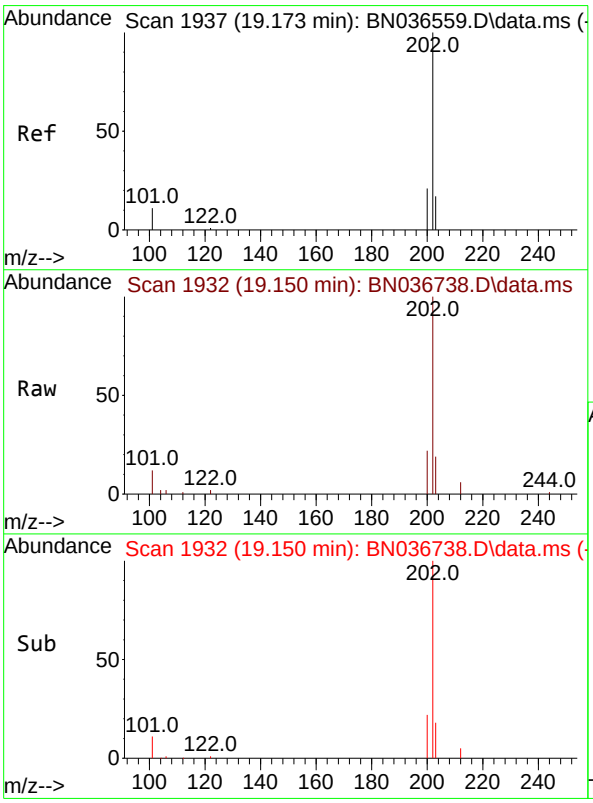
#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 5220

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.9	7.3	10.9

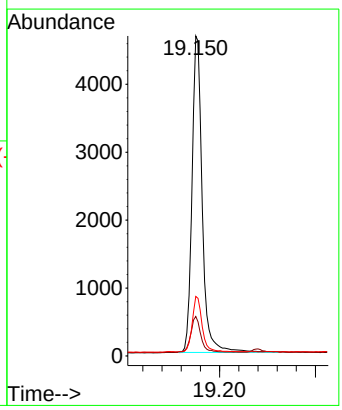


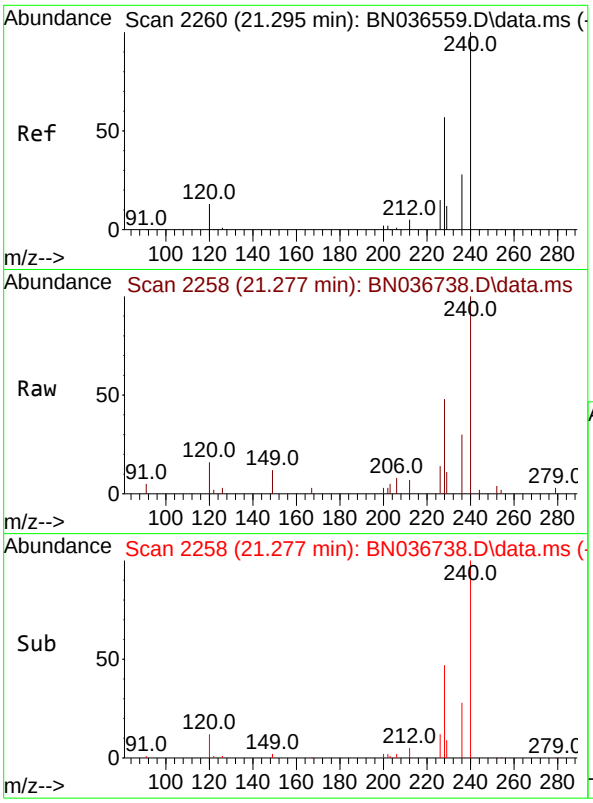


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:202 Resp: 6959

Ion	Ratio	Lower	Upper
202	100		
101	11.2	9.4	14.0
203	17.1	13.5	20.3



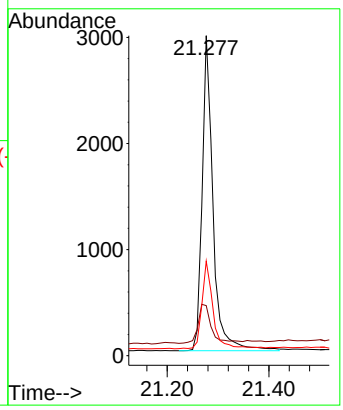


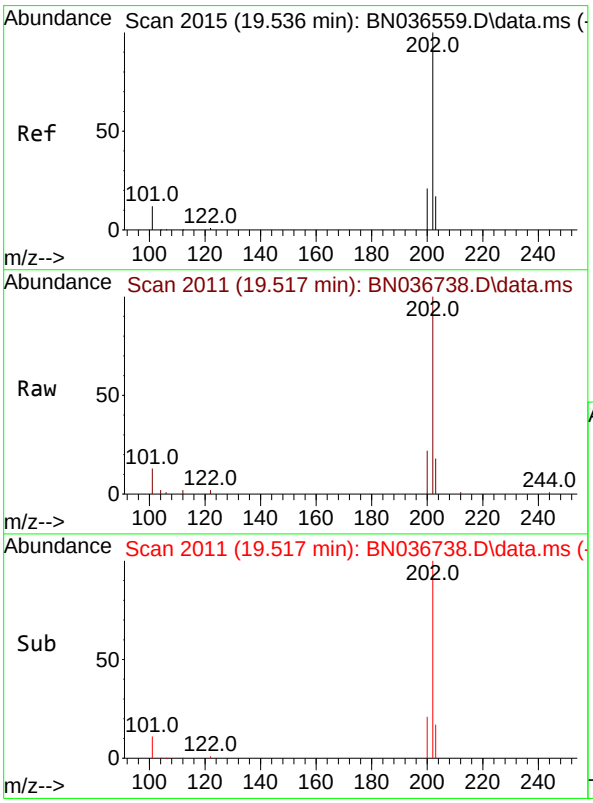
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4385

Ion	Ratio	Lower	Upper
240	100		
120	15.7	14.6	22.0
236	29.5	24.1	36.1

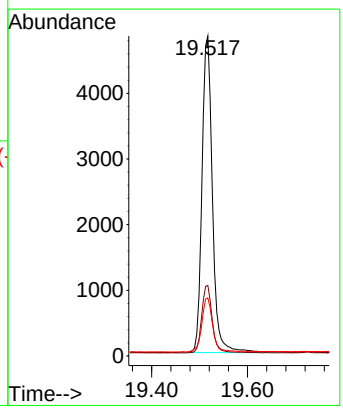


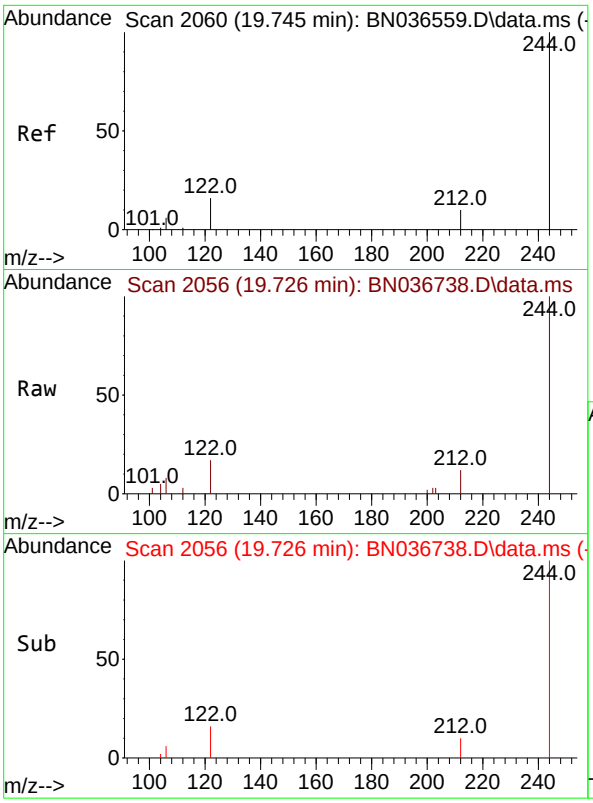


#30
Pyrene
Concen: 0.341 ng
RT: 19.517 min Scan# 2011
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:202 Resp: 7305

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.8	14.1	21.1



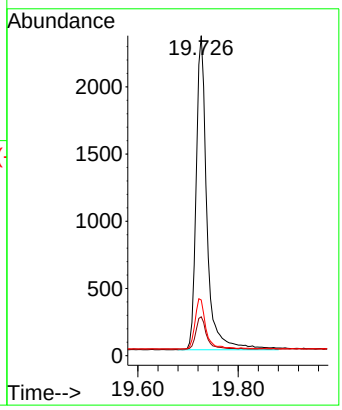


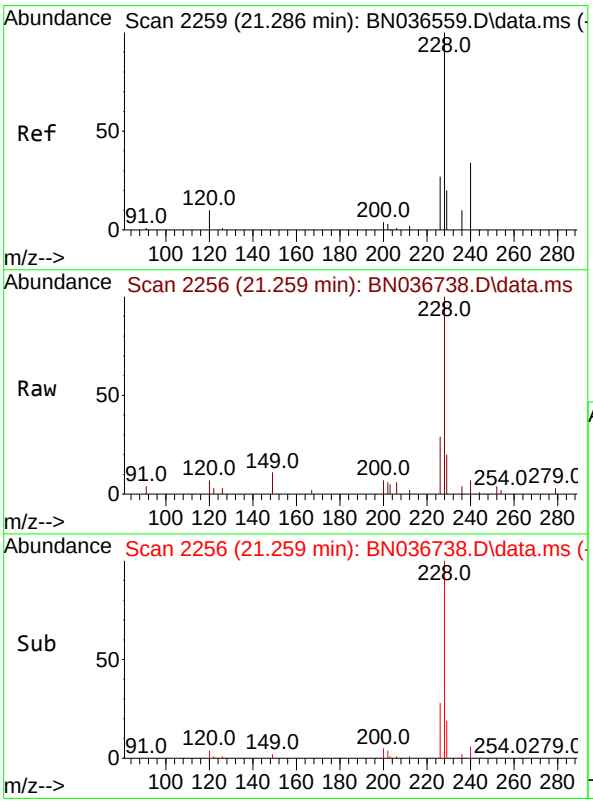
#31
Terphenyl-d14
Concen: 0.330 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3465

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.4	13.9	20.9

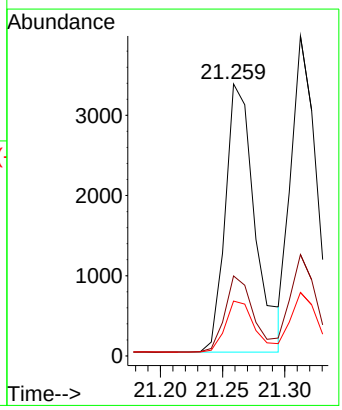


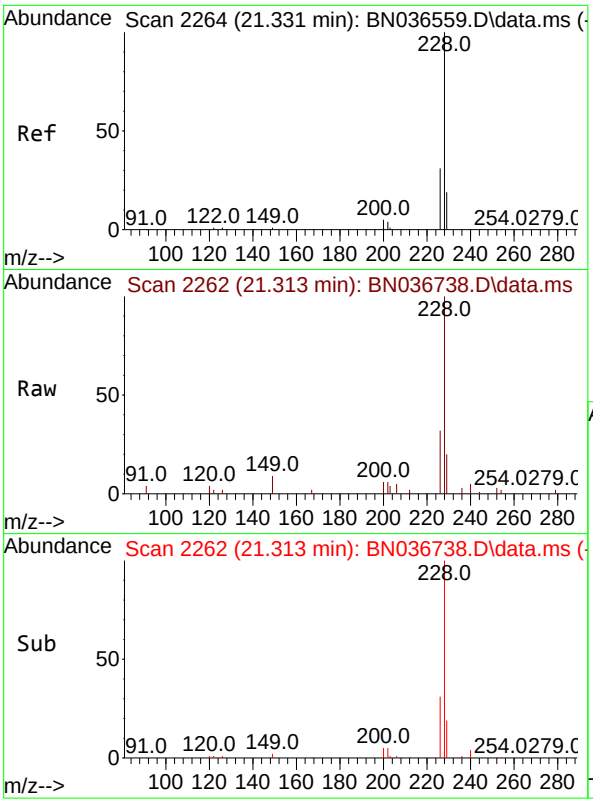


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:228 Resp: 5558

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.5	33.7
229	20.2	16.6	25.0



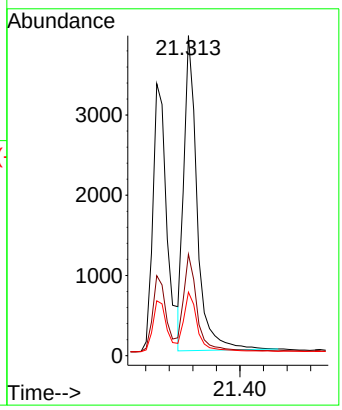


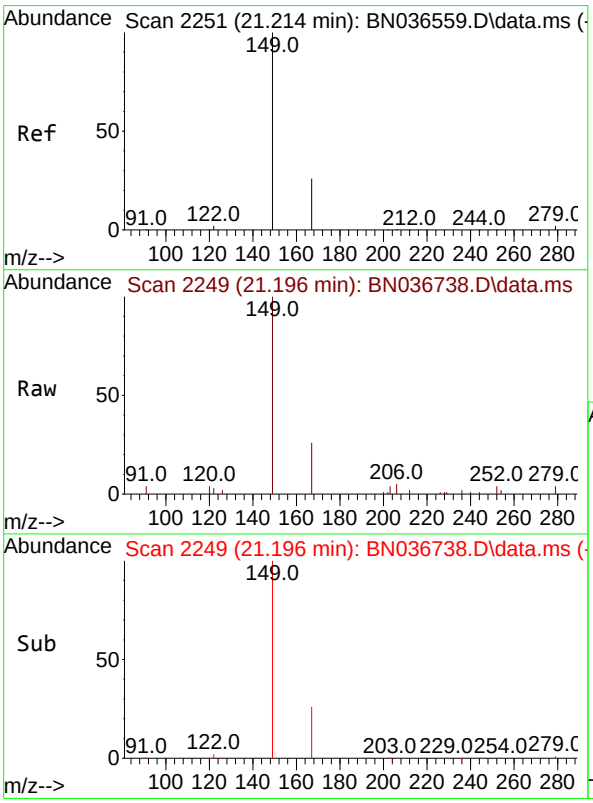
#33
Chrysene
Concen: 0.370 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6163

Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.3	37.9
229	19.8	15.8	23.8

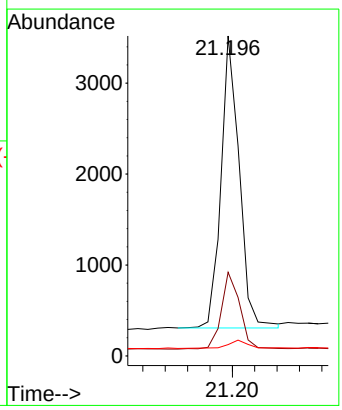


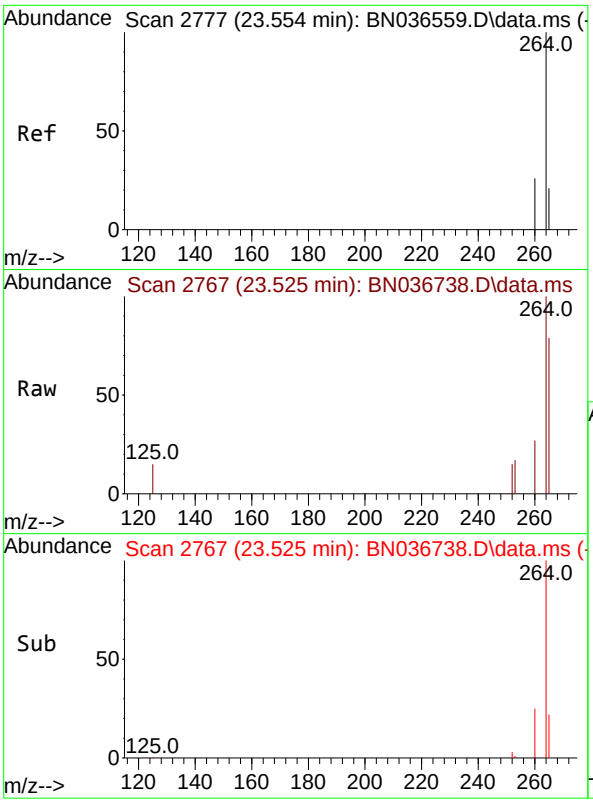


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.335 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:149 Resp: 3633

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.2	3.6	5.4#



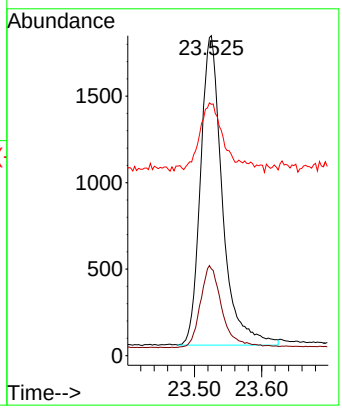


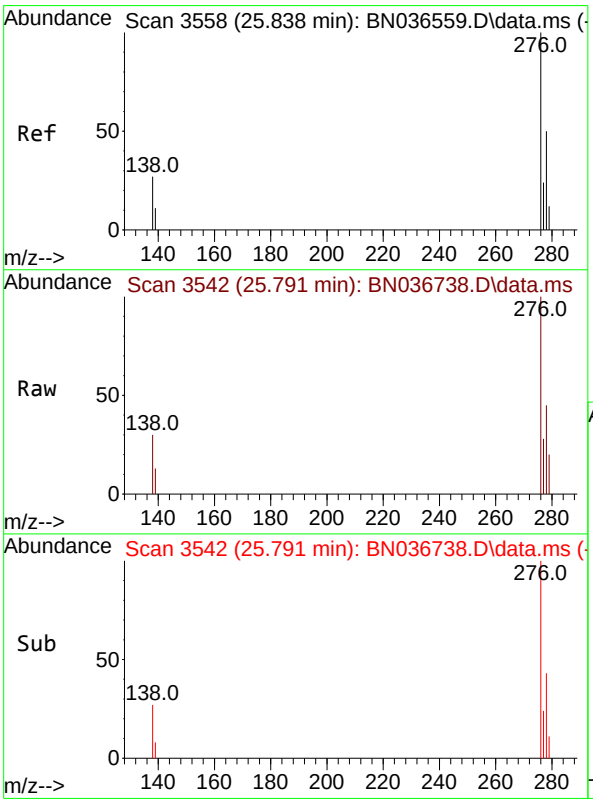
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 4045

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	78.5	88.1	132.1#

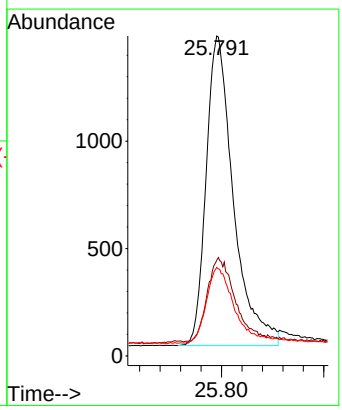


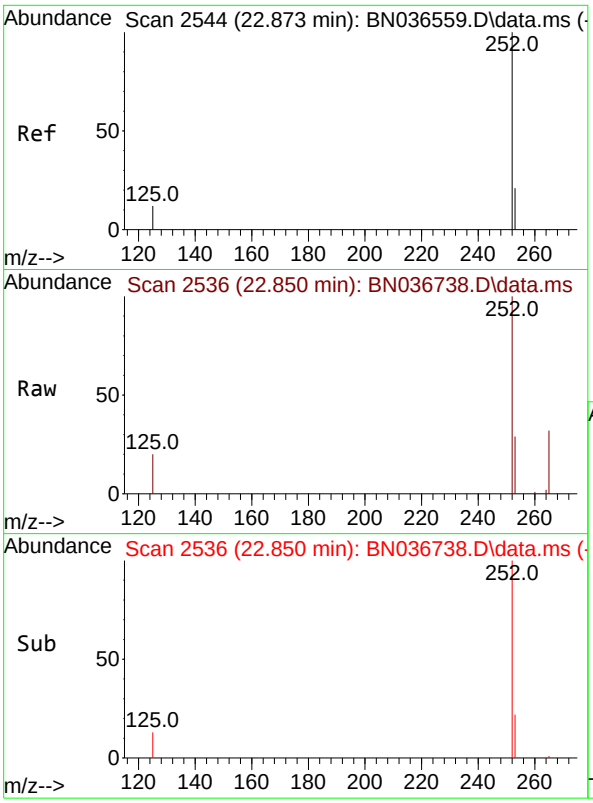


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.791 min Scan# 3542
Delta R.T. -0.047 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:276 Resp: 5346

Ion	Ratio	Lower	Upper
276	100		
138	27.7	23.4	35.2
277	24.9	20.0	30.0



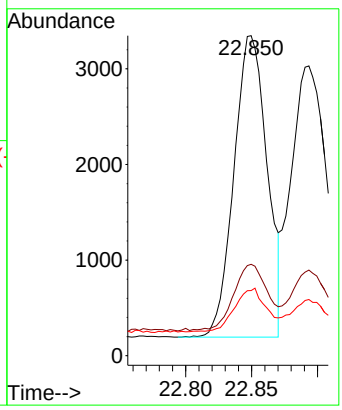


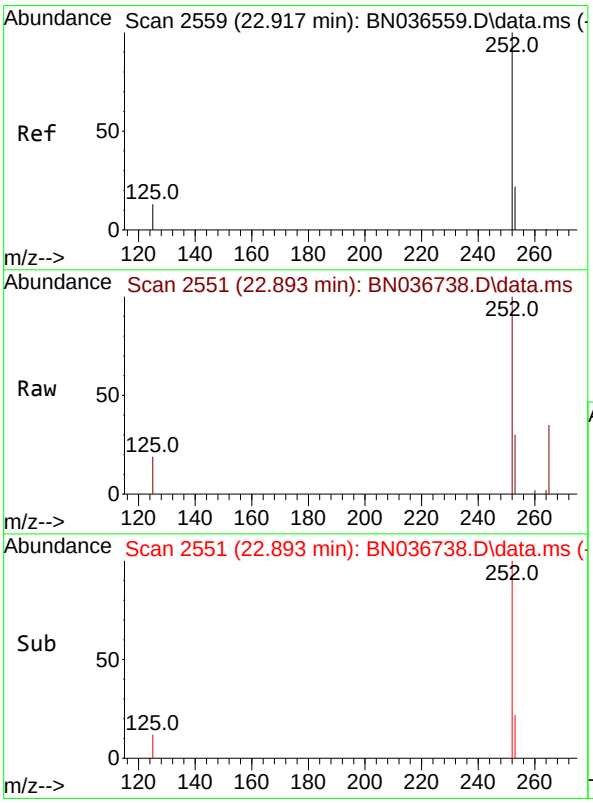
#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.850 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5508

Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.3	17.4	26.2

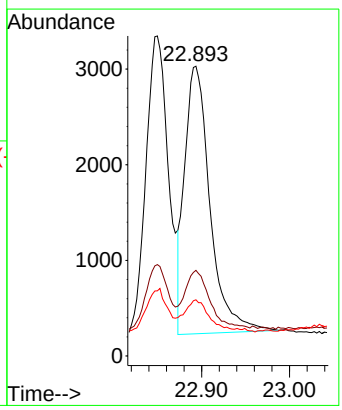


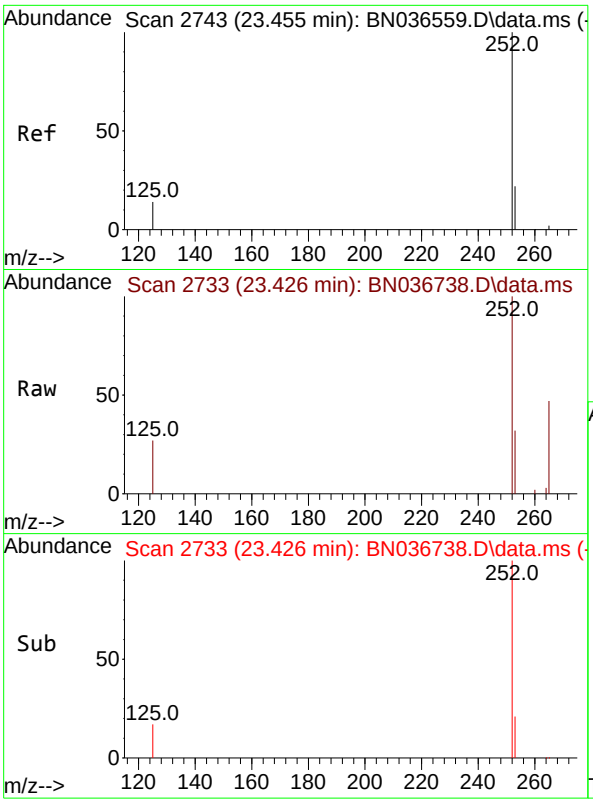


#38
Benzo(k)fluoranthene
Concen: 0.363 ng
RT: 22.893 min Scan# 2551
Delta R.T. -0.023 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:252 Resp: 5599

Ion	Ratio	Lower	Upper
252	100		
253	29.6	24.6	36.8
125	19.4	17.8	26.8



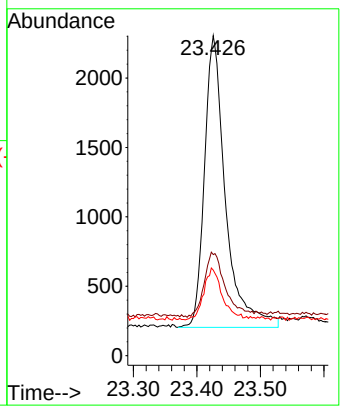


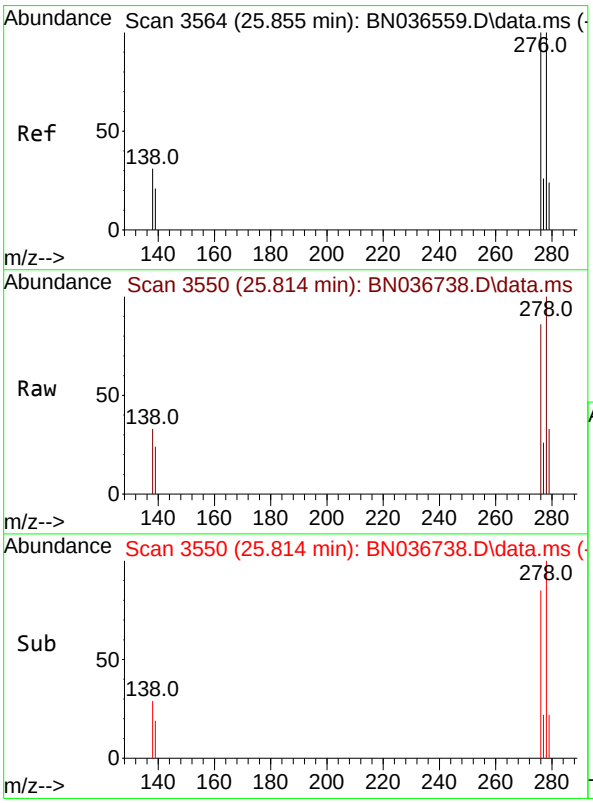
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4841

Ion	Ratio	Lower	Upper
252	100		
253	31.6	27.8	41.8
125	26.8	22.7	34.1

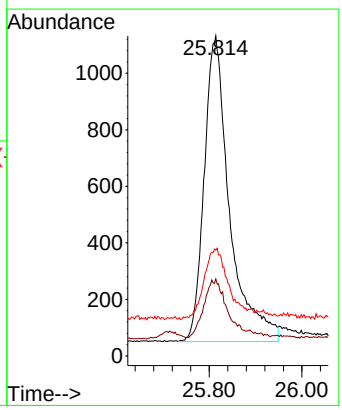


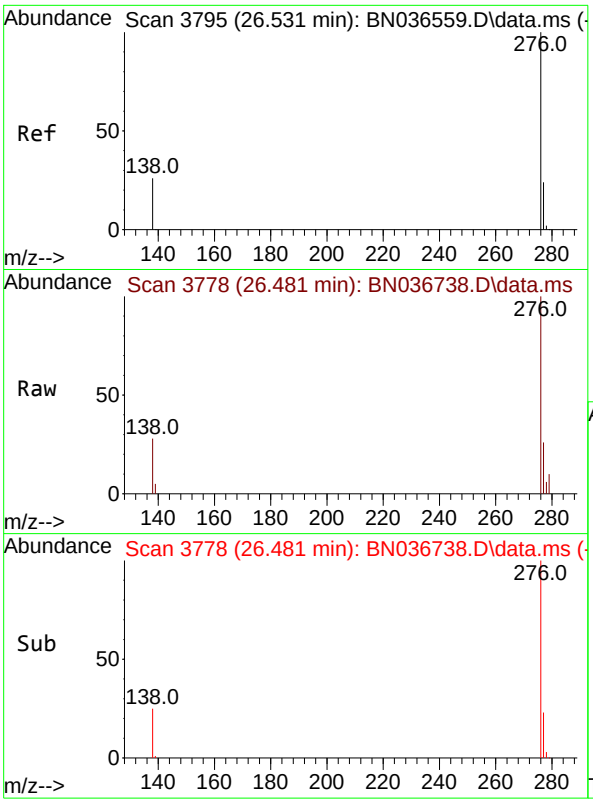


#40
Dibenzo(a,h)anthracene
Concen: 0.362 ng
RT: 25.814 min Scan# 3550
Delta R.T. -0.041 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Tgt Ion:278 Resp: 4114

Ion	Ratio	Lower	Upper
278	100		
139	24.0	20.8	31.2
279	33.0	28.8	43.2



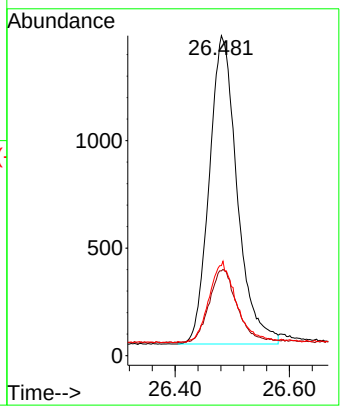


#41
Benzo(g,h,i)perylene
Concen: 0.374 ng
RT: 26.481 min Scan# 3
Delta R.T. -0.050 min
Lab File: BN036738.D
Acq: 27 Mar 2025 15:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4859

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	28.2	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036745.D
Acq On : 27 Mar 2025 19:51
Operator : RC/JU
Sample : Q1608-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Quant Time: Mar 28 00:57:58 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 16:06:28 2025
Response via : Initial Calibration

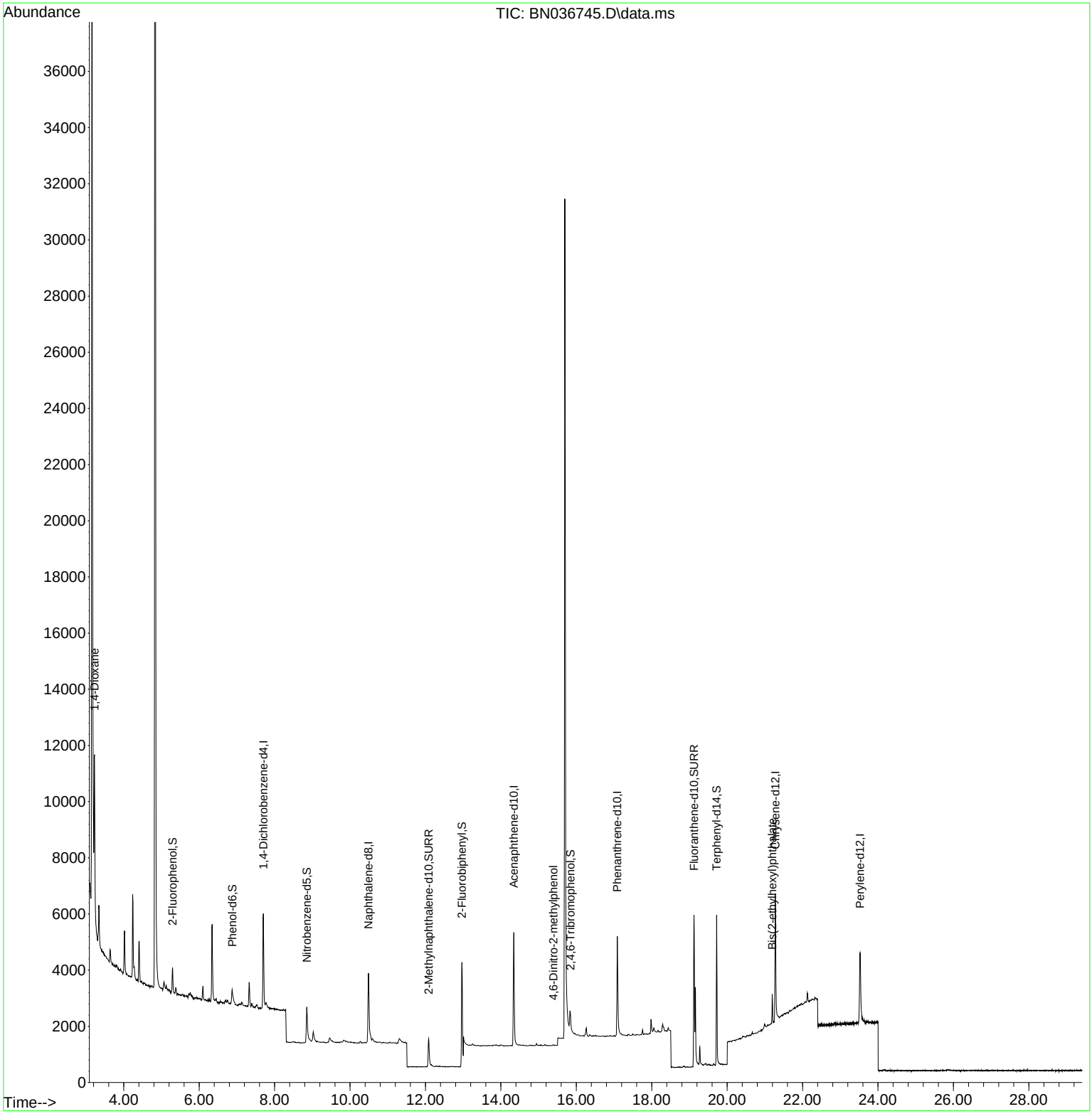
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1782	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	4096	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	2547	0.400	ng	-0.02
19) Phenanthrene-d10	17.087	188	5581	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4807	0.400	ng	-0.02
35) Perylene-d12	23.525	264	4214	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	640	0.154	ng	-0.01
5) Phenol-d6	6.879	99	449	0.088	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1355	0.304	ng	-0.02
11) 2-Methylnaphthalene-d10	12.086	152	1849	0.303	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	459	0.397	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	5964	0.403	ng	-0.02
27) Fluoranthene-d10	19.123	212	6637	0.464	ng	-0.02
31) Terphenyl-d14	19.722	244	5052	0.439	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	3010	1.523	ng	# 82
20) 4,6-Dinitro-2-methylph...	15.393	198	11	0.153	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.196	149	983	0.083	ng	# 99

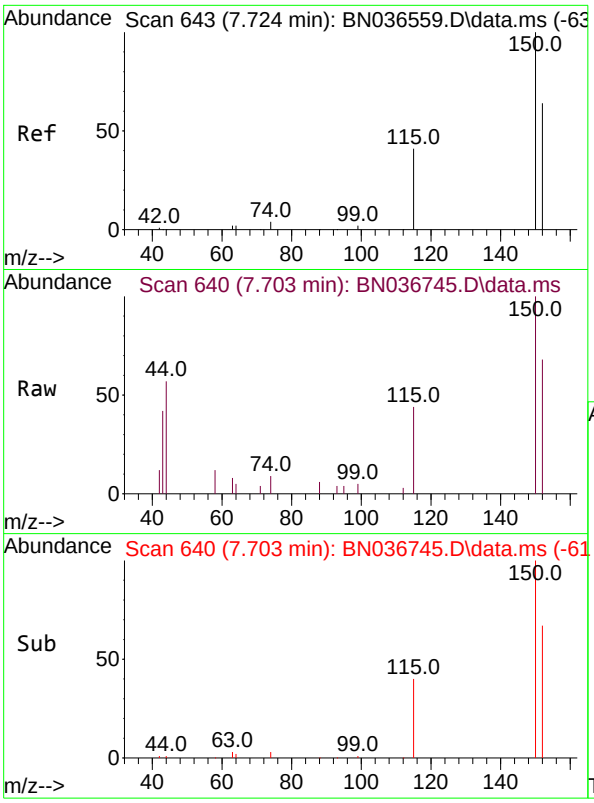
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036745.D
Acq On : 27 Mar 2025 19:51
Operator : RC/JU
Sample : Q1608-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Quant Time: Mar 28 00:57:58 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 16:06:28 2025
Response via : Initial Calibration



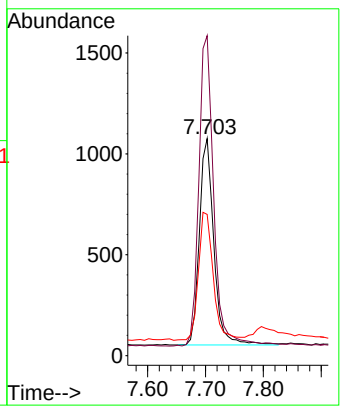


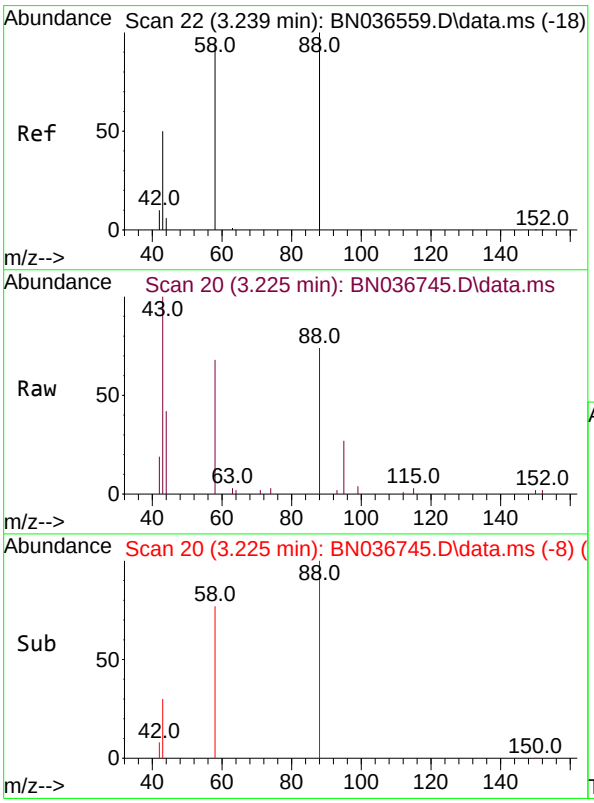
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:152 Resp: 1782

Ion	Ratio	Lower	Upper
152	100		
150	147.4	123.7	185.5
115	65.1	54.3	81.5

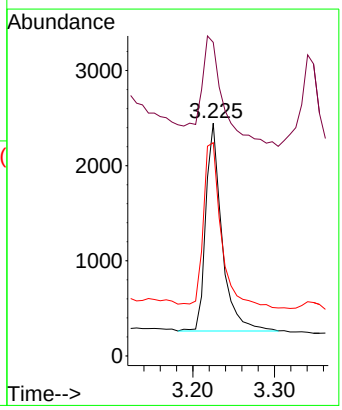


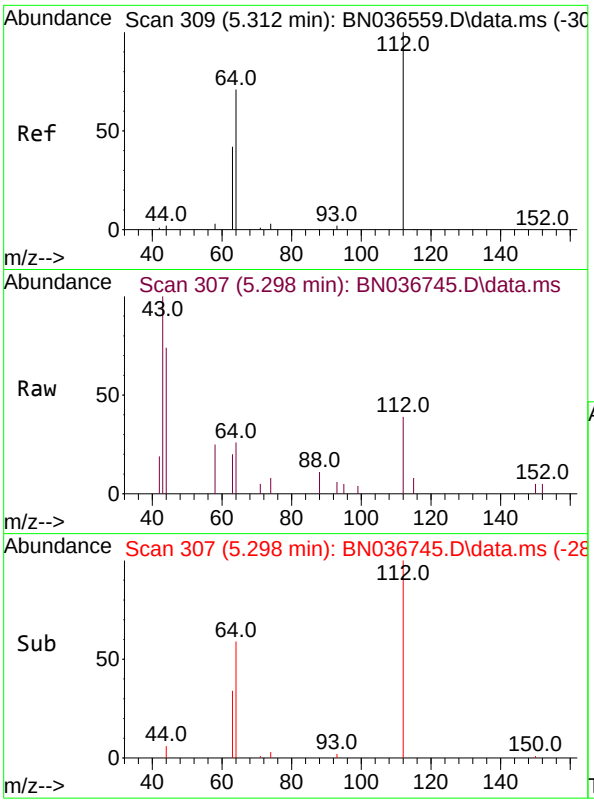


#2
1,4-Dioxane
Concen: 1.523 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion: 88 Resp: 3010

Ion	Ratio	Lower	Upper
88	100		
43	74.8	37.8	56.8#
58	88.5	67.4	101.2



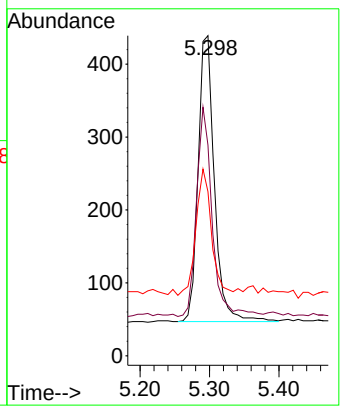


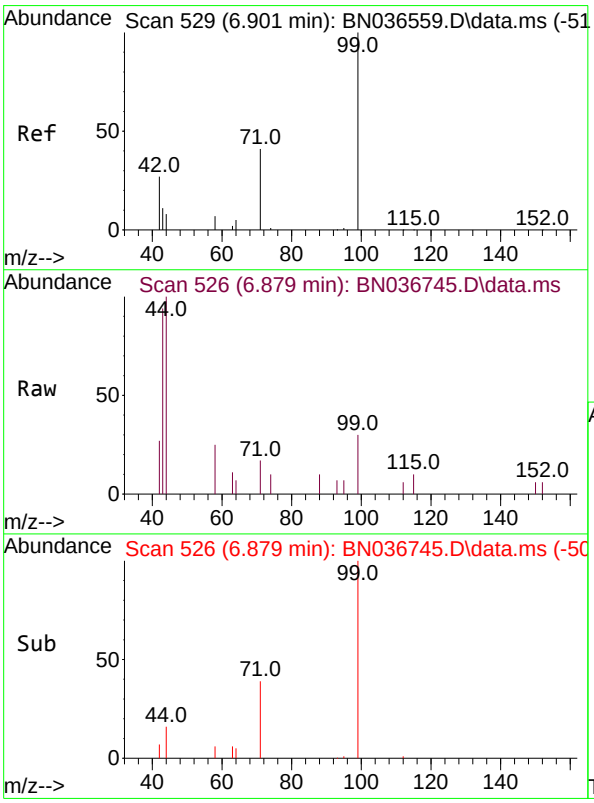
#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.298 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:112 Resp: 640

Ion	Ratio	Lower	Upper
112	100		
64	70.5	53.1	79.7
63	42.7	31.8	47.8

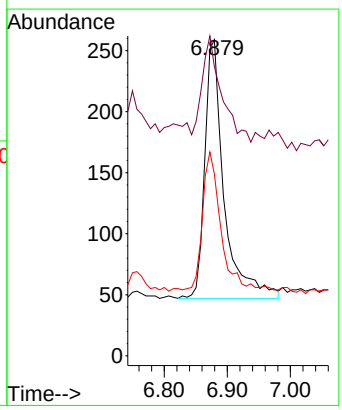


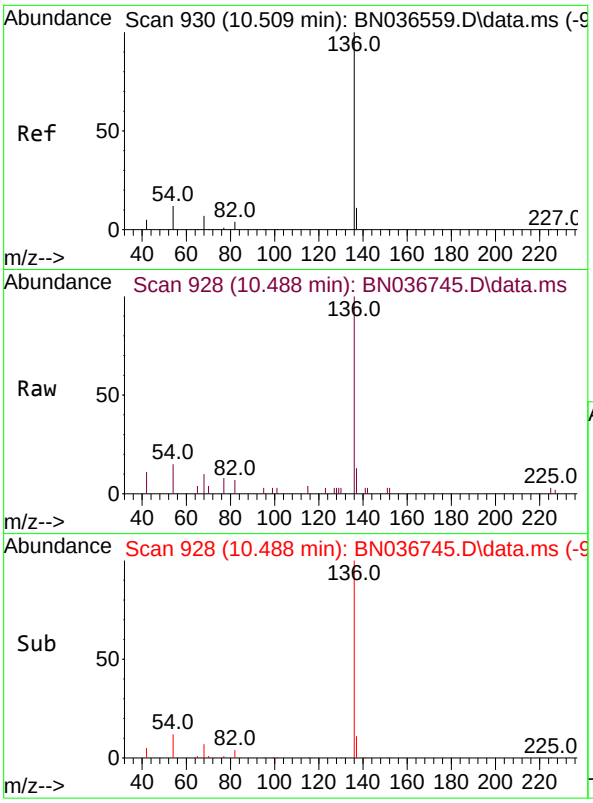


#5
Phenol-d6
Concen: 0.088 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion: 99 Resp: 449

Ion	Ratio	Lower	Upper
99	100		
42	41.4	26.5	39.7#
71	51.9	34.1	51.1#



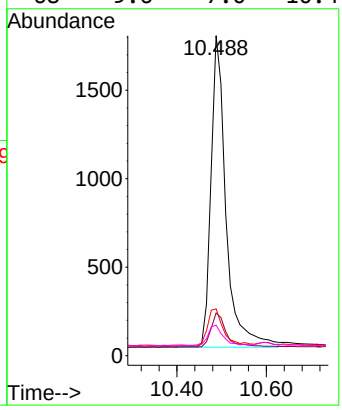


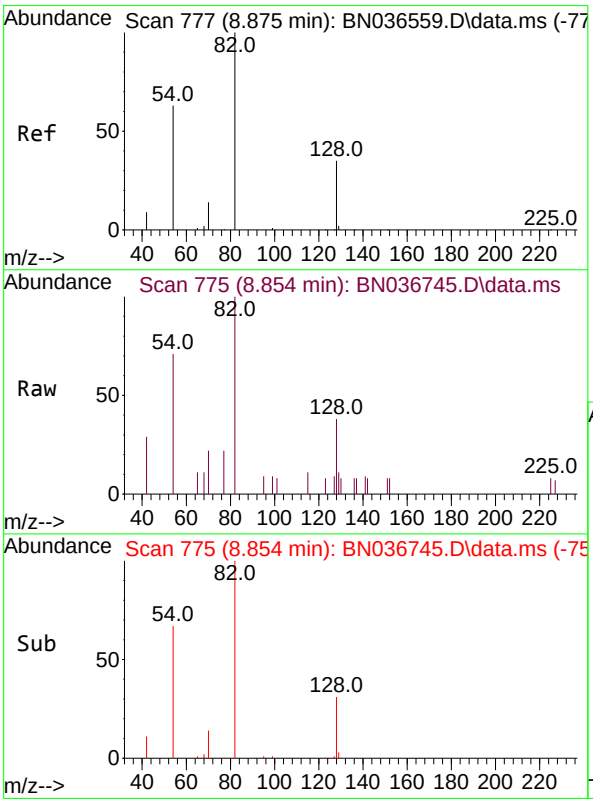
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:136 Resp: 4096

Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	14.7	11.5	17.3
68	9.6	7.0	10.4

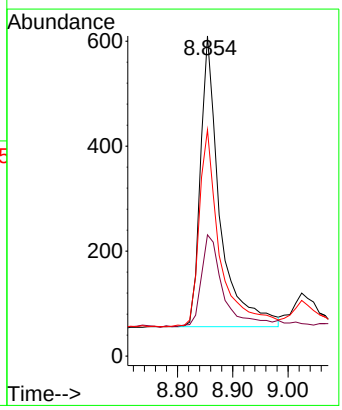


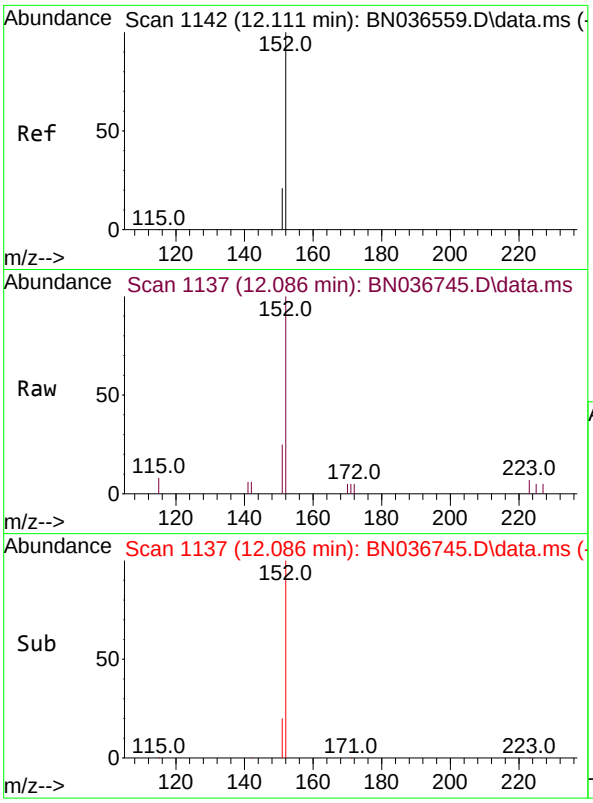


#8
Nitrobenzene-d5
Concen: 0.304 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion: 82 Resp: 1355

Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	70.7	52.2	78.4



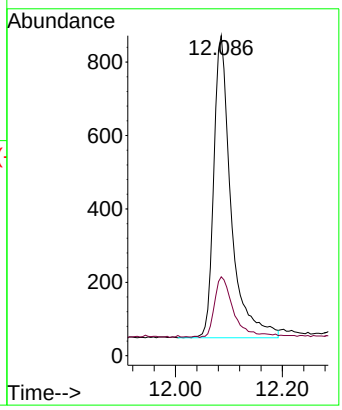


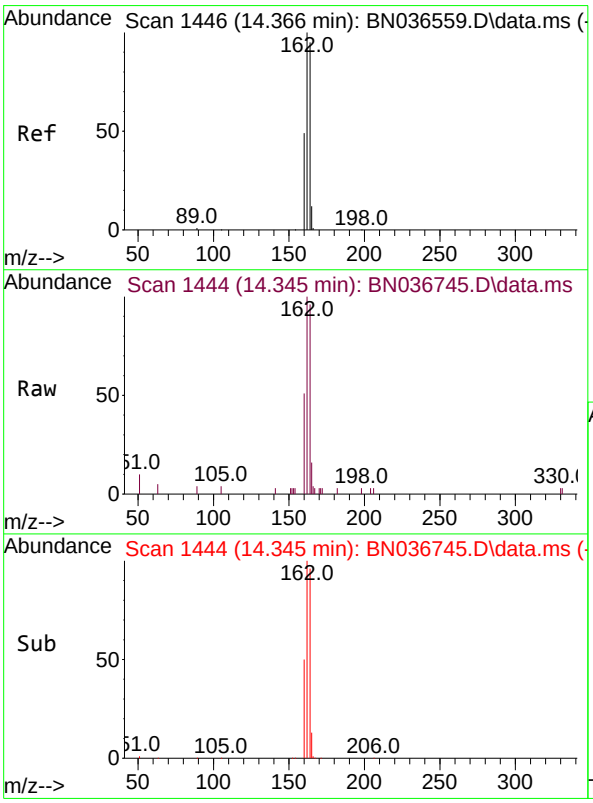
#11
2-Methylnaphthalene-d10
Concen: 0.303 ng
RT: 12.086 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:152 Resp: 1849

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

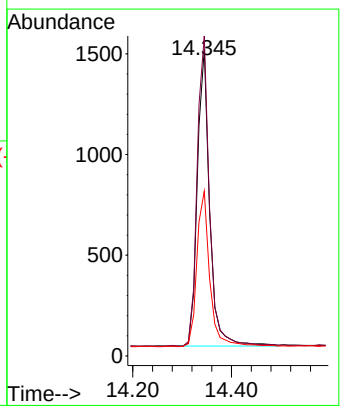


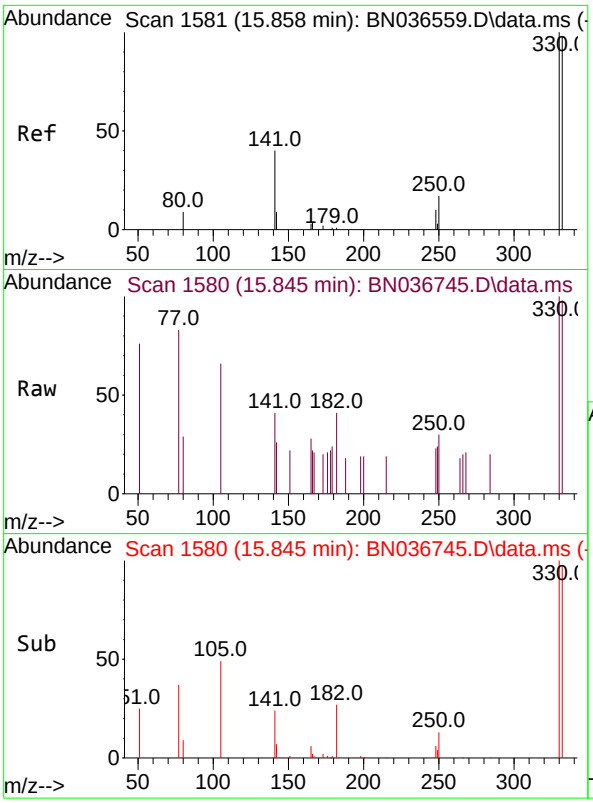


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:164 Resp: 2547

Ion	Ratio	Lower	Upper
164	100		
162	104.4	84.2	126.2
160	53.7	42.2	63.2



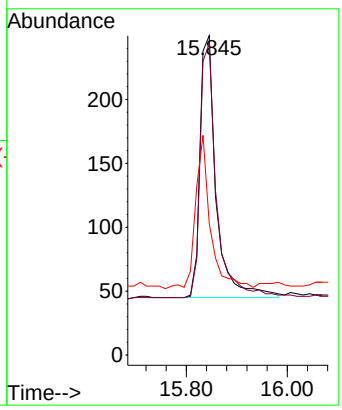


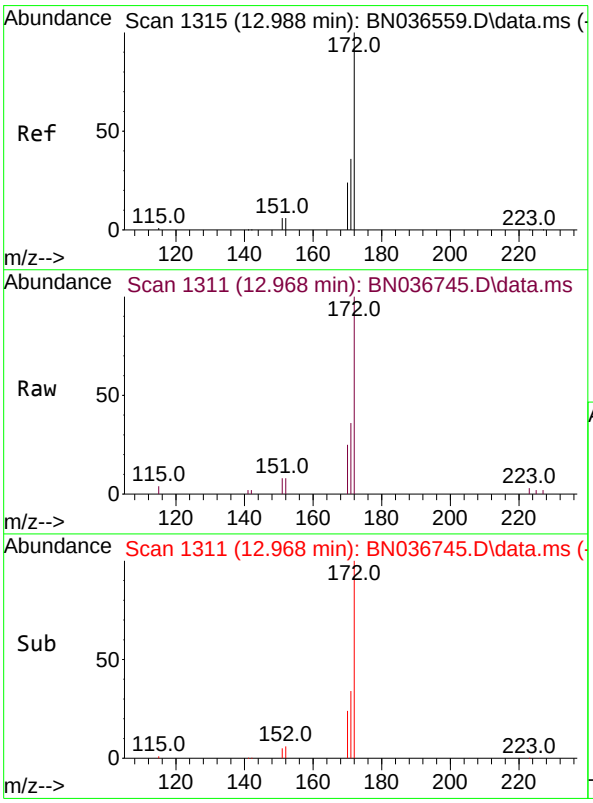
#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:330 Resp: 459

Ion	Ratio	Lower	Upper
330	100		
332	97.4	75.2	112.8
141	53.4	43.4	65.2

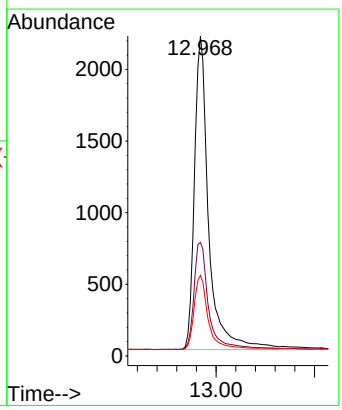


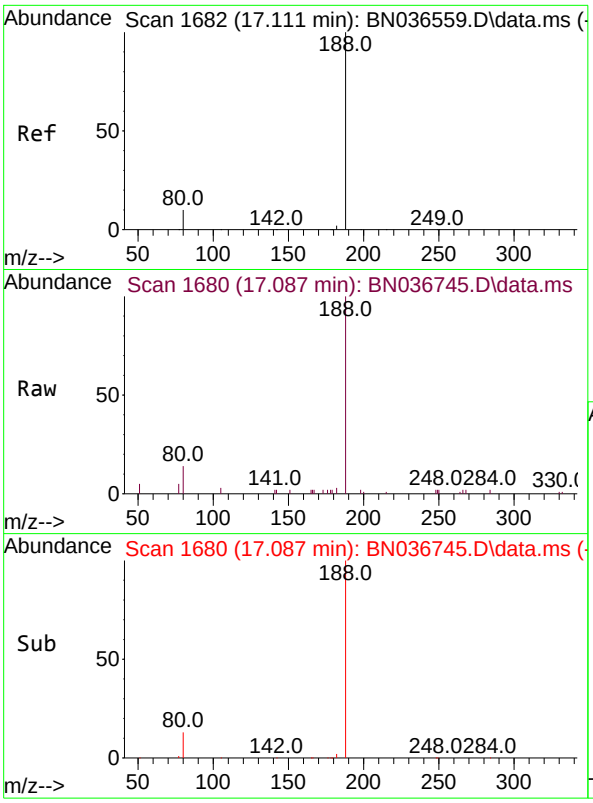


#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:172 Resp: 5964

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.5	44.3
170	25.2	20.2	30.4



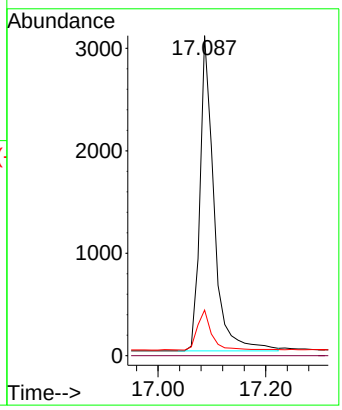


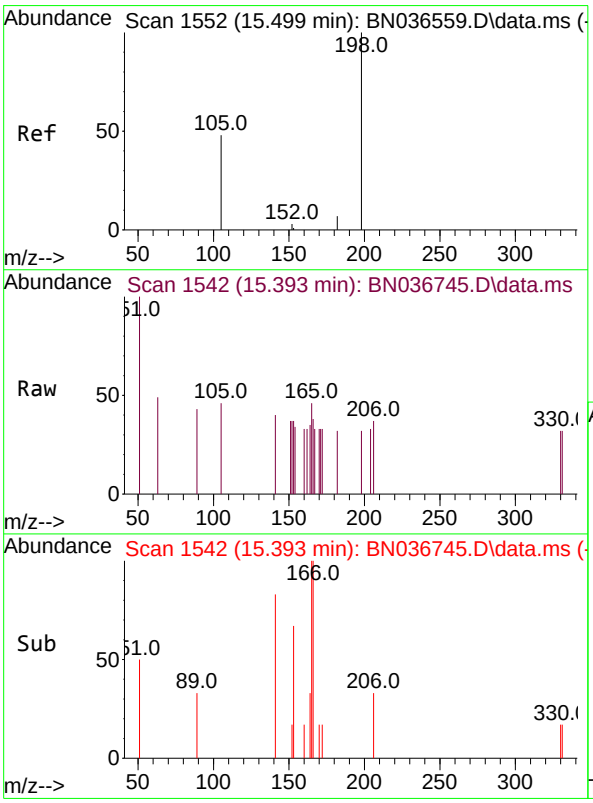
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:188 Resp: 5581

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.2	8.8	13.2#

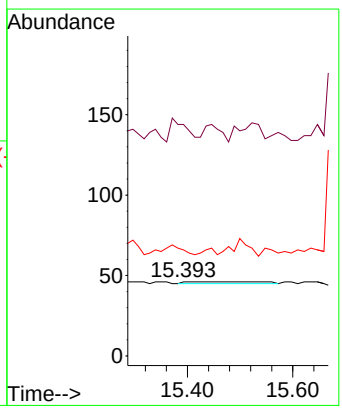


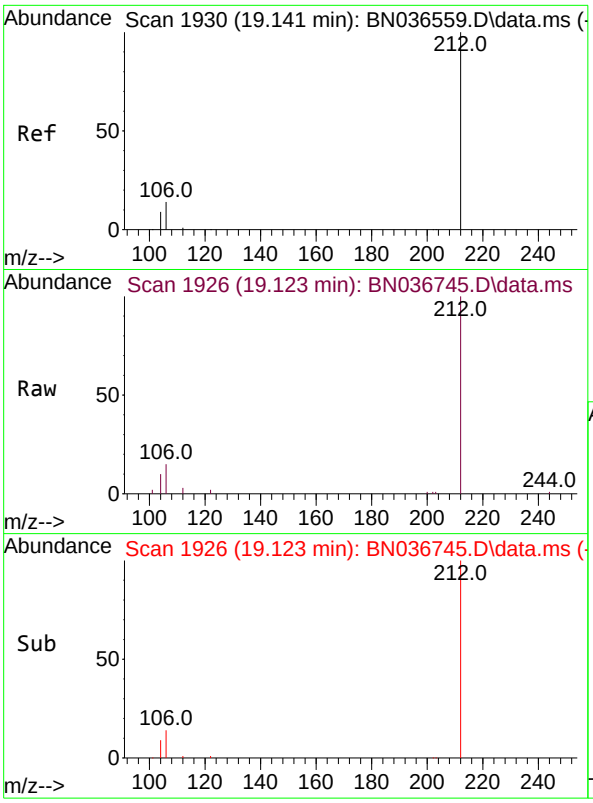


#20
4,6-Dinitro-2-methylphenol
Concen: 0.153 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.106 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:198 Resp: 11

Ion	Ratio	Lower	Upper
198	100		
51	313.0	107.9	161.9#
105	143.5	56.2	84.2#



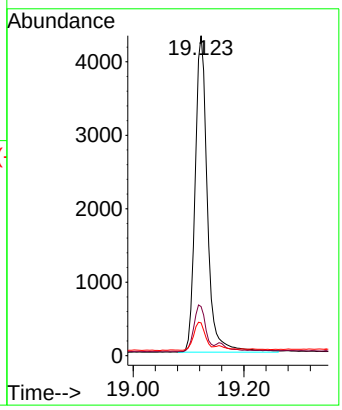


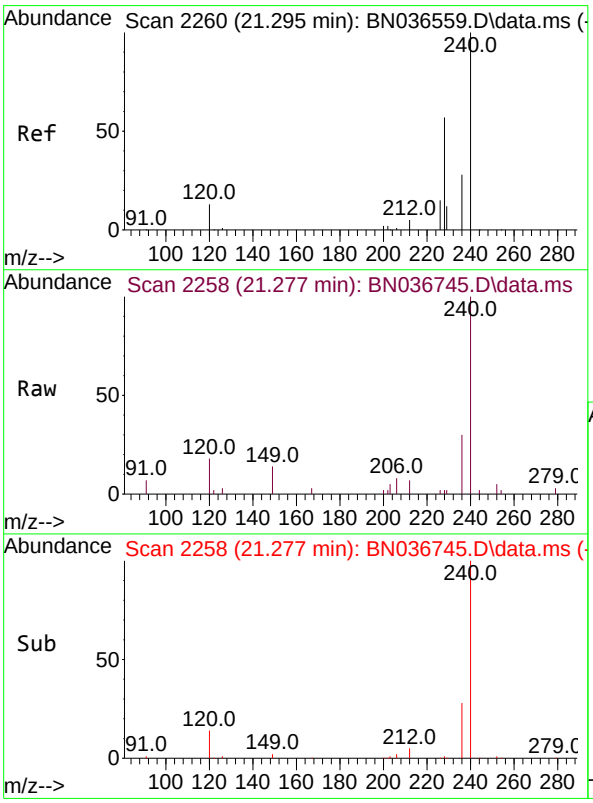
#27
Fluoranthene-d10
Concen: 0.464 ng
RT: 19.123 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:212 Resp: 6637

Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.8	17.6
104	8.5	7.3	10.9

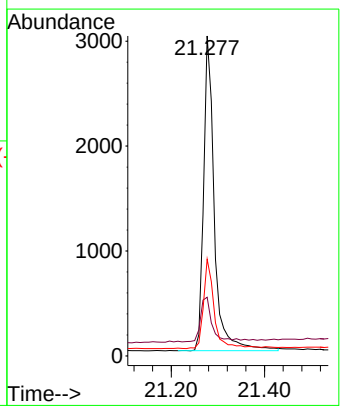


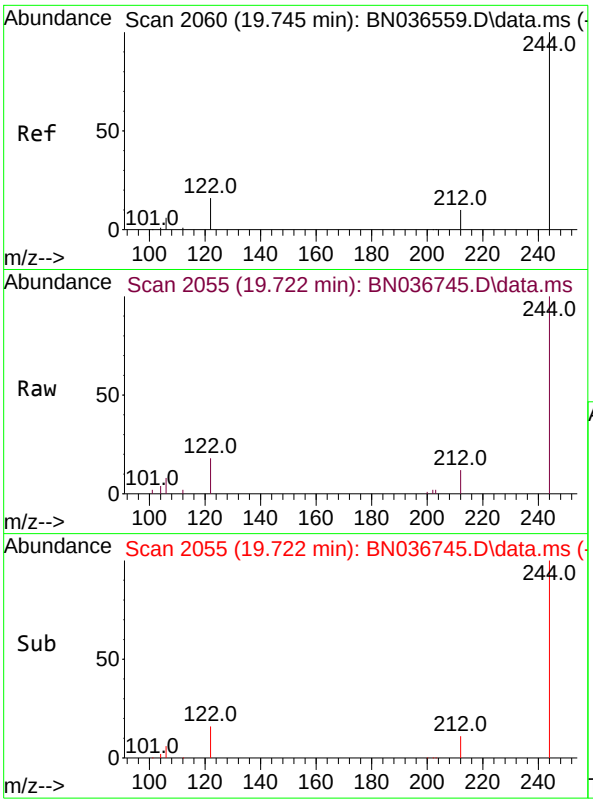


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:240 Resp: 4807

Ion	Ratio	Lower	Upper
240	100		
120	18.4	14.6	22.0
236	30.2	24.1	36.1



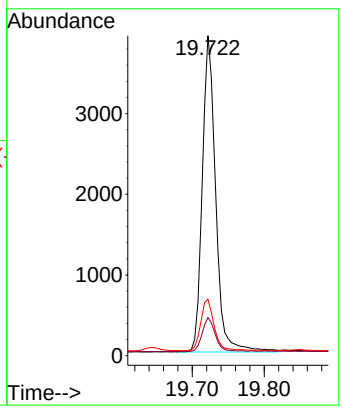


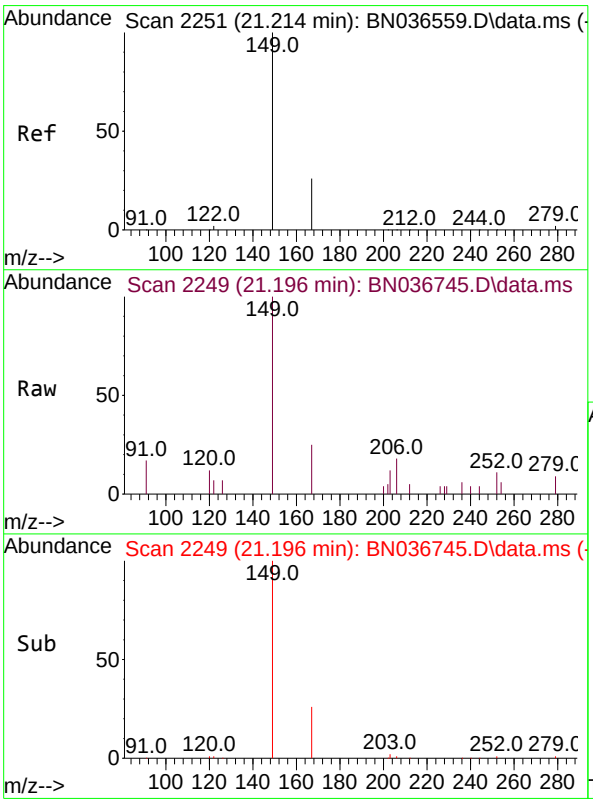
#31
Terphenyl-d14
Concen: 0.439 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:244 Resp: 5052

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	17.7	13.9	20.9

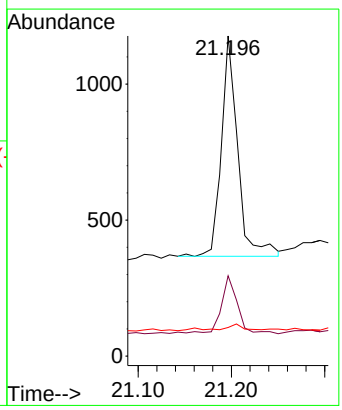


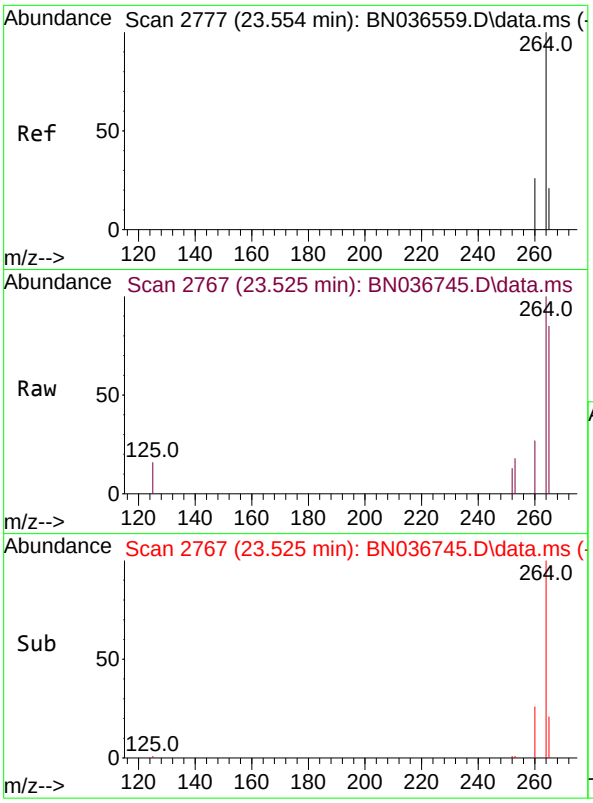


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.083 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Tgt Ion:149 Resp: 983

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	2.0	3.6	5.4#



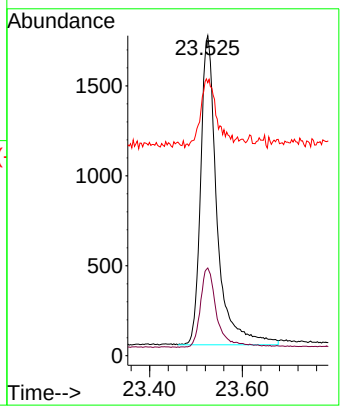


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036745.D
Acq: 27 Mar 2025 19:51

Instrument :
BNA_N
ClientSampleId :
RE139D2-20250317

Tgt Ion:264 Resp: 4214

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	85.3	88.1	132.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036753.D
Acq On : 28 Mar 2025 00:39
Operator : RC/JU
Sample : Q1608-20
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Quant Time: Mar 28 01:20:26 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 16:06:28 2025
Response via : Initial Calibration

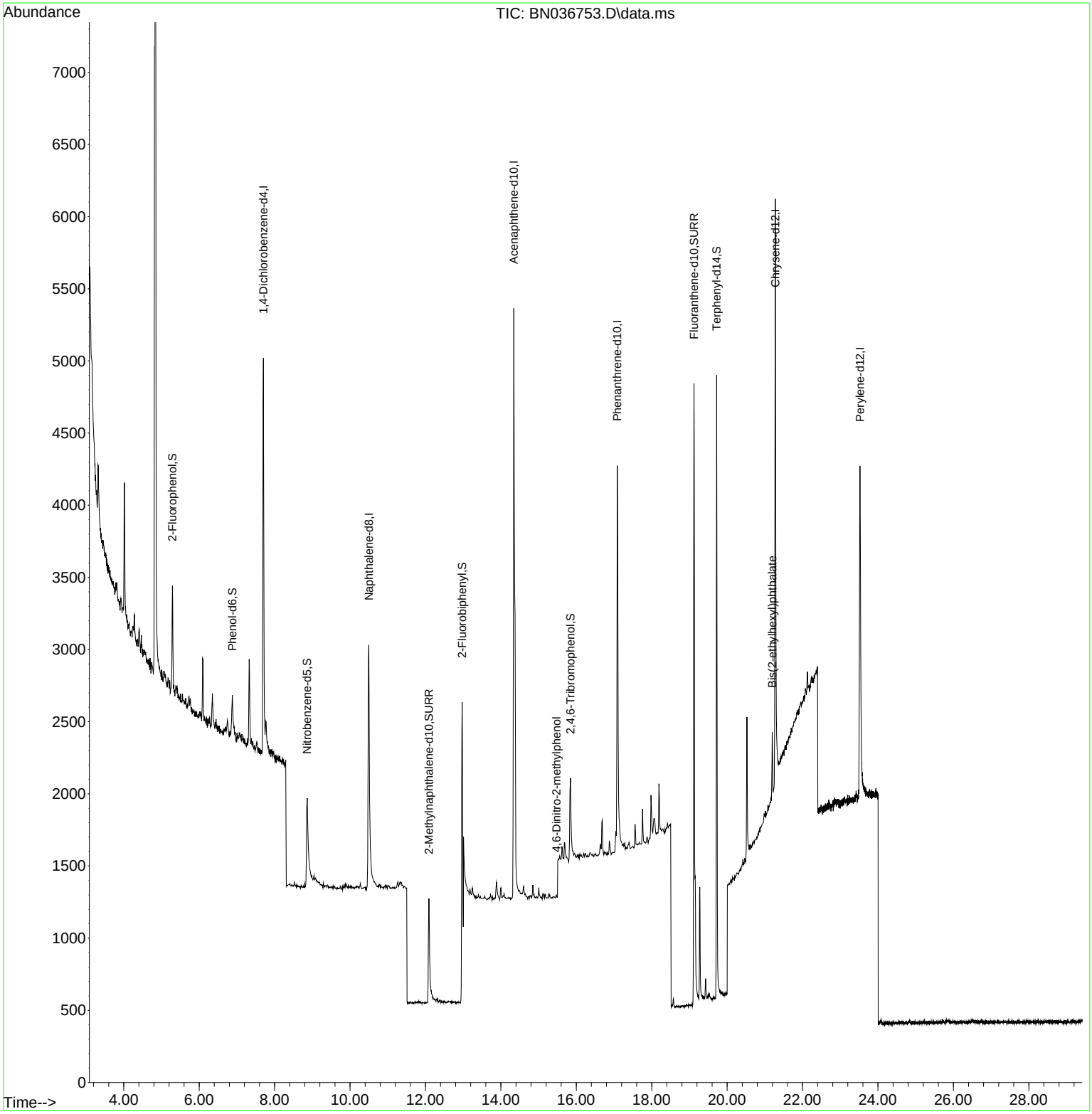
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1517	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	3430	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2301	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4871	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4219	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3720	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	538	0.152	ng	-0.02
5) Phenol-d6	6.879	99	348	0.080	ng	-0.02
8) Nitrobenzene-d5	8.865	82	986	0.264	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1616	0.317	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	430	0.412	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	3874	0.289	ng	-0.02
27) Fluoranthene-d10	19.122	212	5370	0.430	ng	-0.02
31) Terphenyl-d14	19.722	244	4233	0.419	ng	-0.02
Target Compounds						Qvalue
20) 4,6-Dinitro-2-methylph...	15.478	198	1	0.147	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.196	149	518	0.050	ng	95

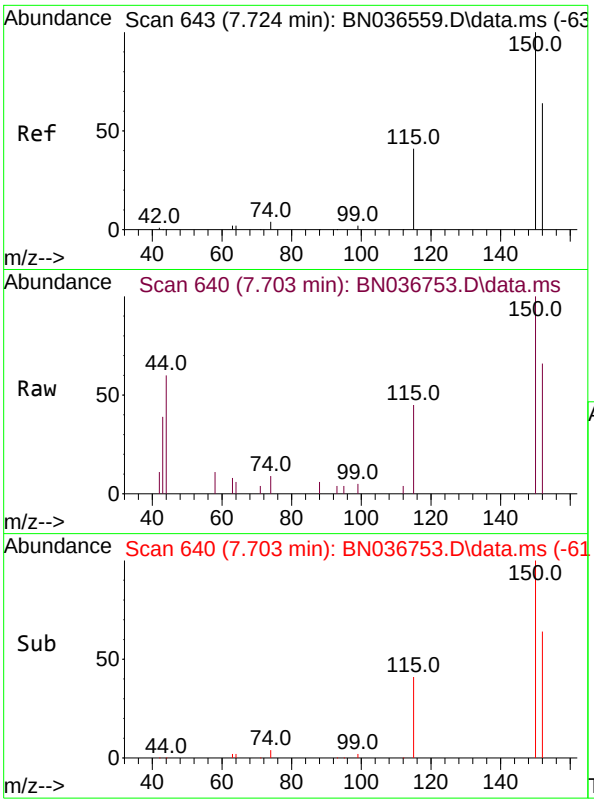
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036753.D
Acq On : 28 Mar 2025 00:39
Operator : RC/JU
Sample : Q1608-20
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Quant Time: Mar 28 01:20:26 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 16:06:28 2025
Response via : Initial Calibration



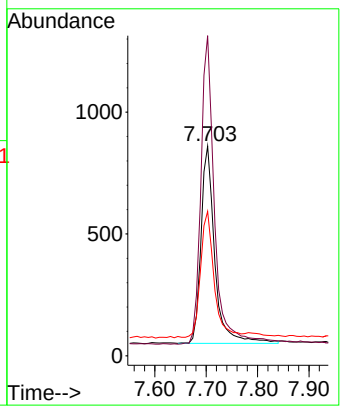


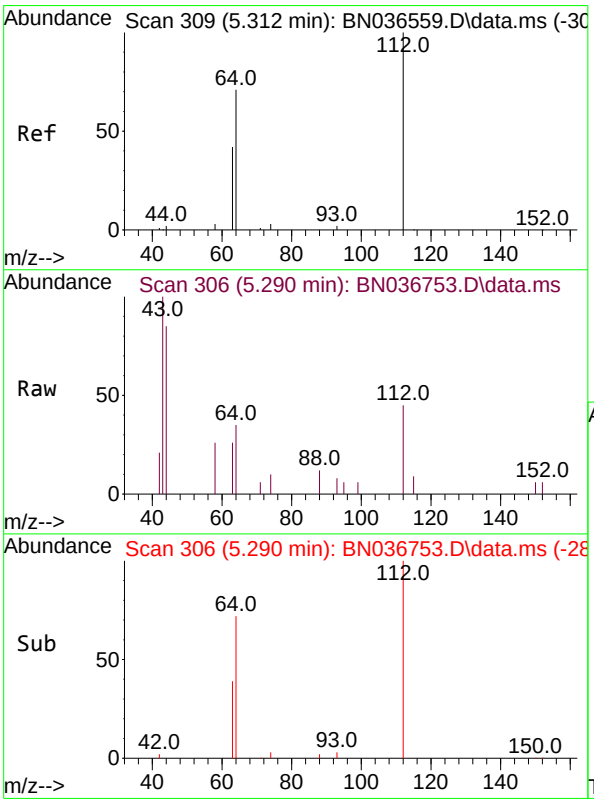
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Tgt Ion:152 Resp: 1517

Ion	Ratio	Lower	Upper
152	100		
150	152.6	123.7	185.5
115	68.9	54.3	81.5

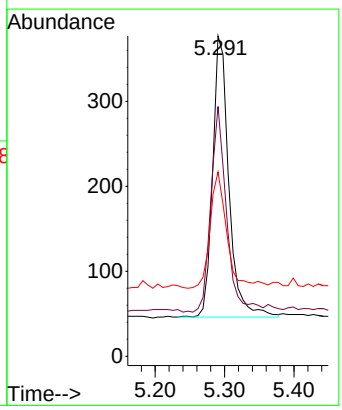


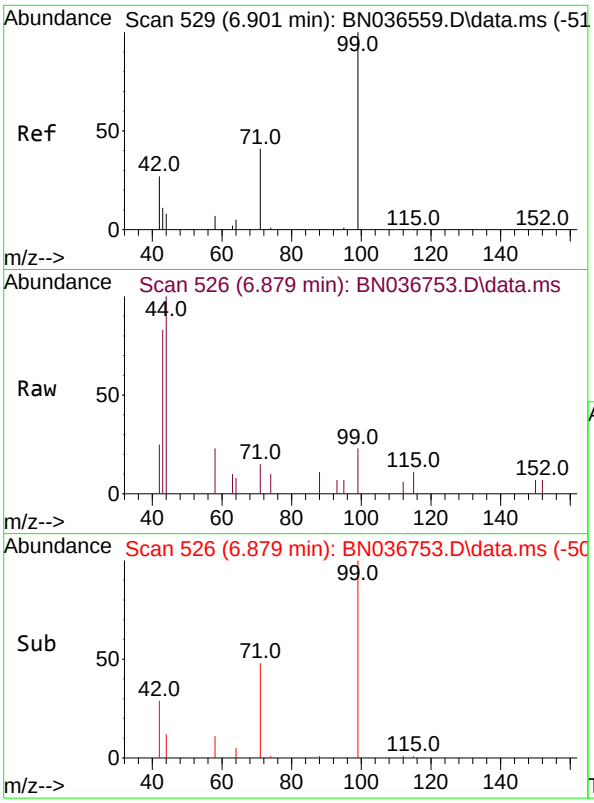


#4
2-Fluorophenol
Concen: 0.152 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:112 Resp: 538

Ion	Ratio	Lower	Upper
112	100		
64	70.6	53.1	79.7
63	42.9	31.8	47.8



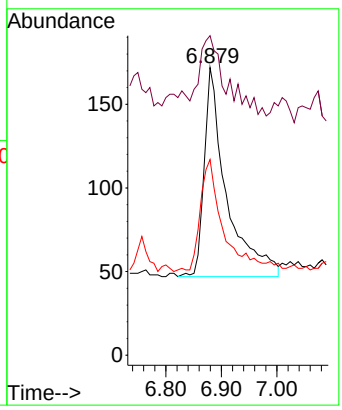


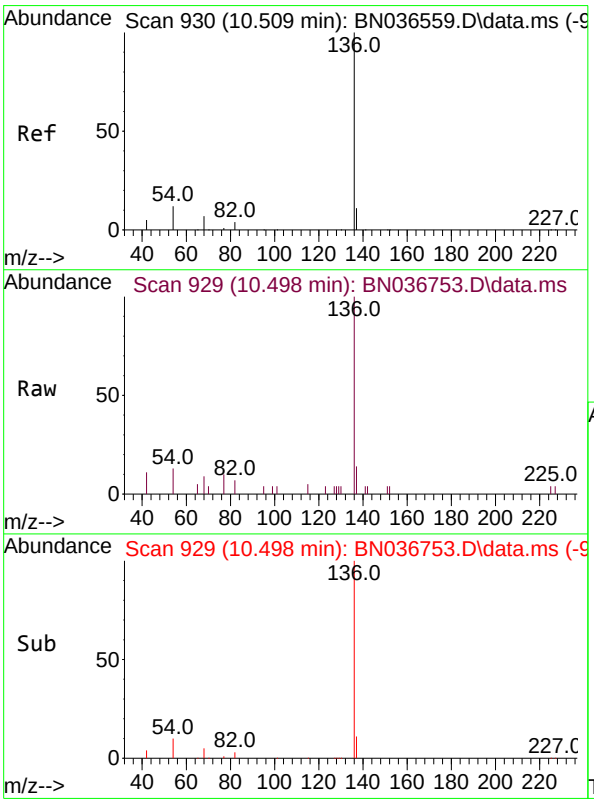
#5
Phenol-d6
Concen: 0.080 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Tgt Ion: 99 Resp: 348

Ion	Ratio	Lower	Upper
99	100		
42	24.1	26.5	39.7#
71	54.6	34.1	51.1#

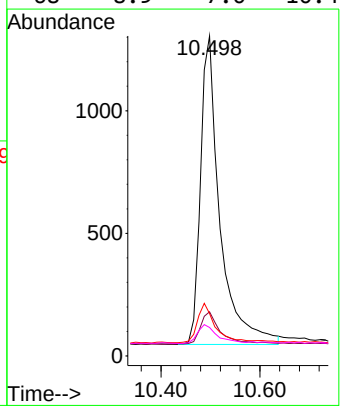


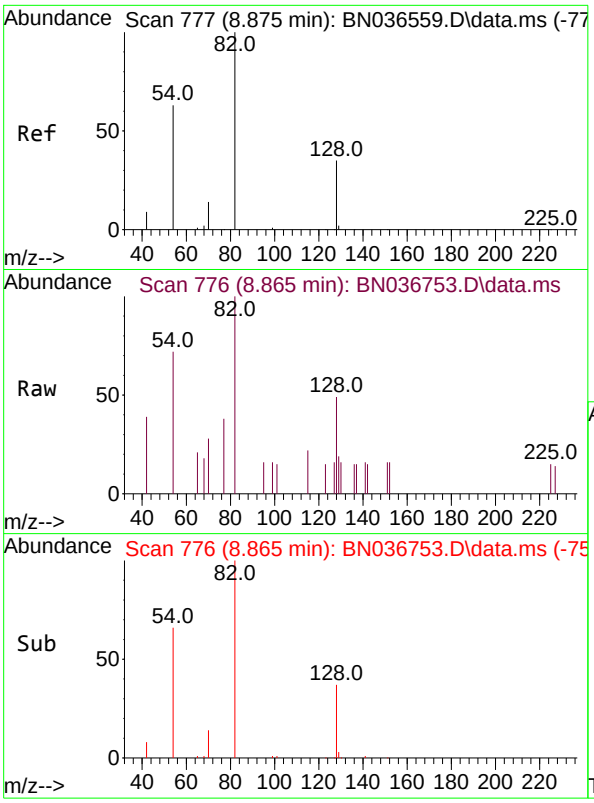


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:136 Resp: 3430

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	13.3	11.5	17.3
68	8.9	7.0	10.4



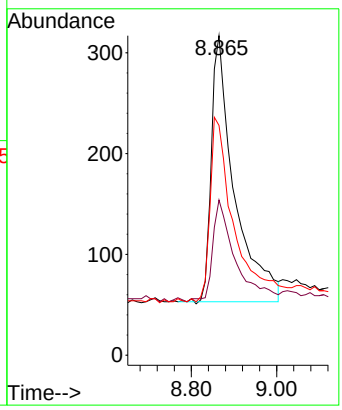


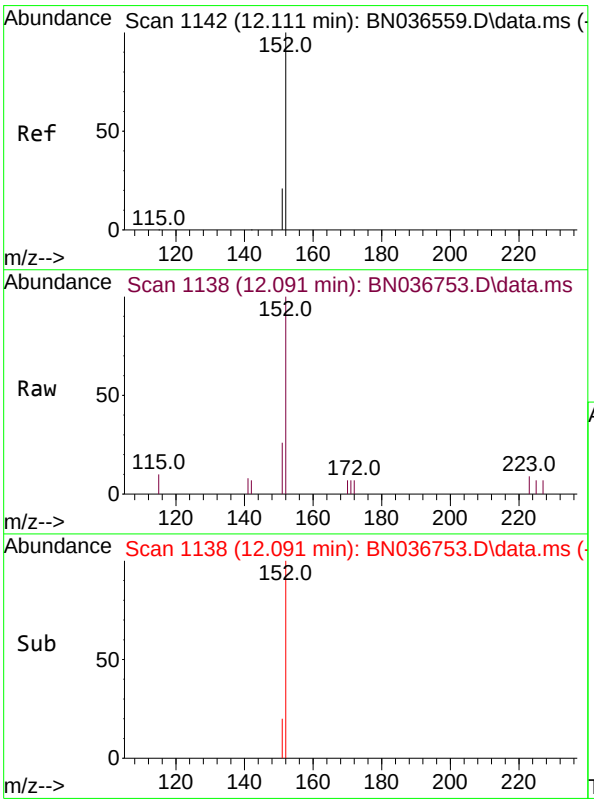
#8
Nitrobenzene-d5
Concen: 0.264 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Tgt Ion: 82 Resp: 986

Ion	Ratio	Lower	Upper
82	100		
128	48.6	30.6	45.8#
54	71.9	52.2	78.4

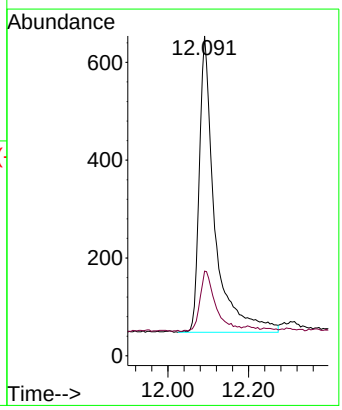


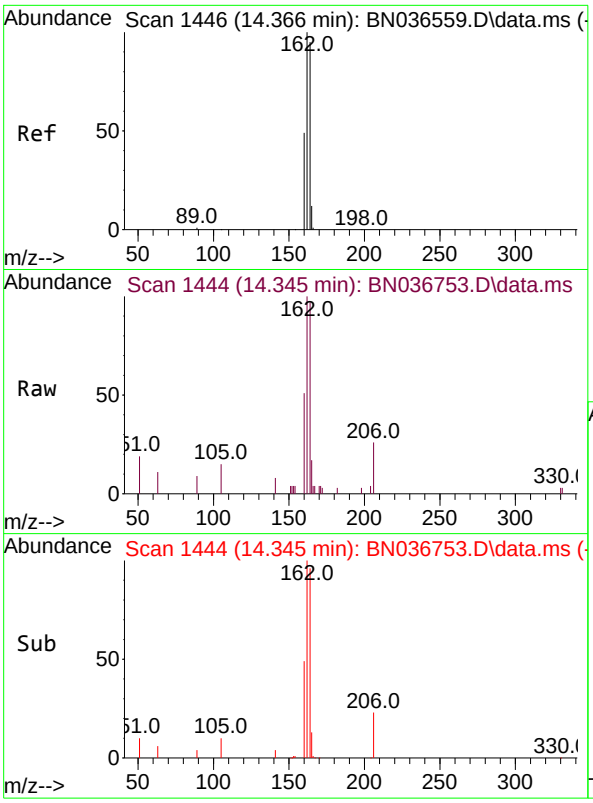


#11
2-Methylnaphthalene-d10
Concen: 0.317 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.020 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:152 Resp: 1616

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.0	25.6



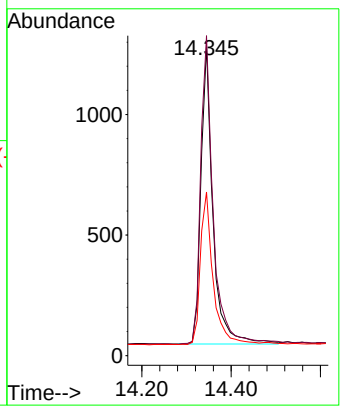


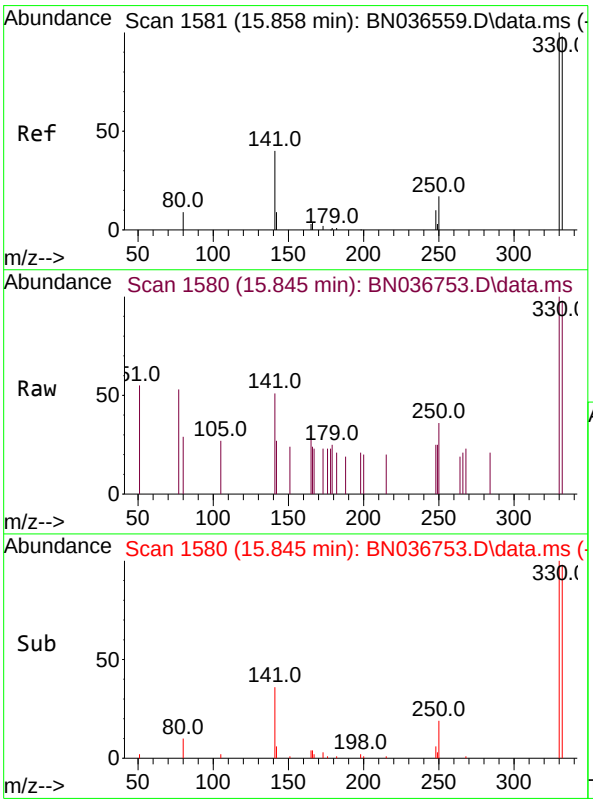
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Tgt Ion:164 Resp: 2301

Ion	Ratio	Lower	Upper
164	100		
162	103.4	84.2	126.2
160	52.9	42.2	63.2

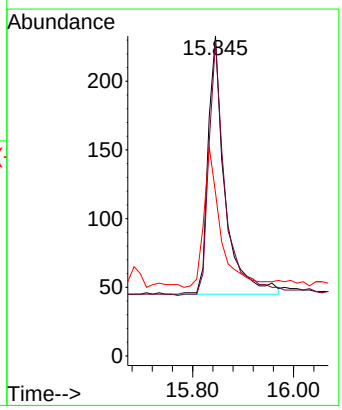


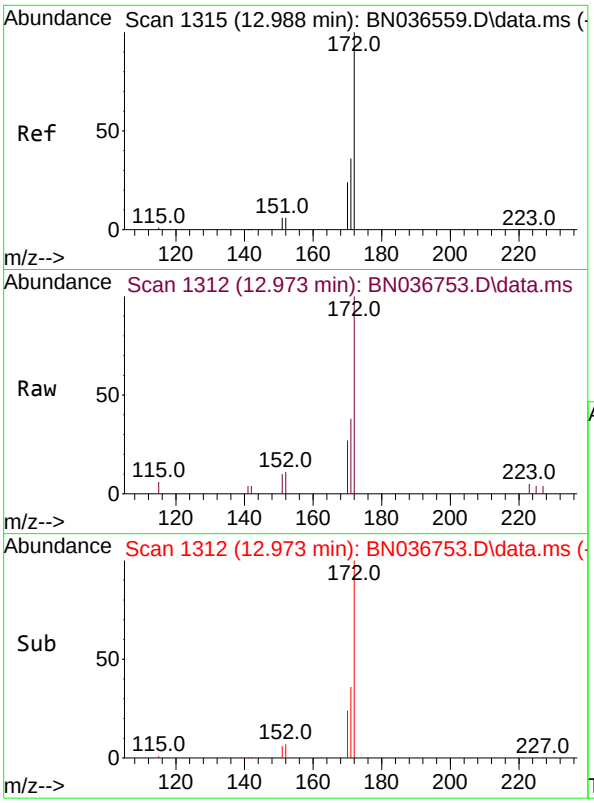


#14
2,4,6-Tribromophenol
Concen: 0.412 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:330 Resp: 430

Ion	Ratio	Lower	Upper
330	100		
332	99.8	75.2	112.8
141	54.7	43.4	65.2



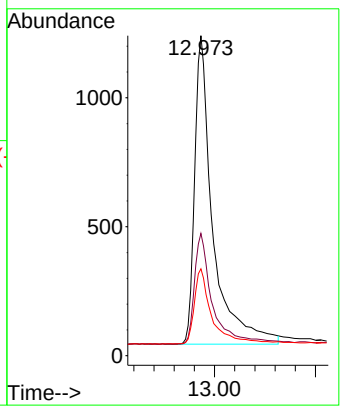


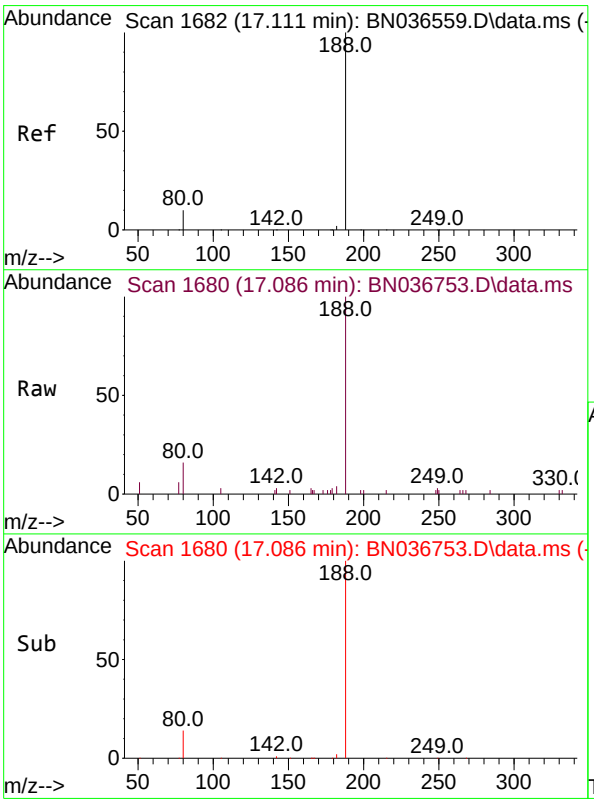
#15
2-Fluorobiphenyl
Concen: 0.289 ng
RT: 12.973 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Tgt Ion:172 Resp: 3874

Ion	Ratio	Lower	Upper
172	100		
171	38.2	29.5	44.3
170	27.2	20.2	30.4

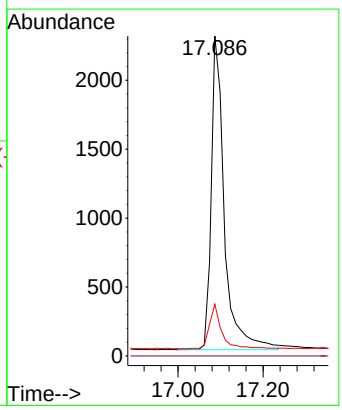


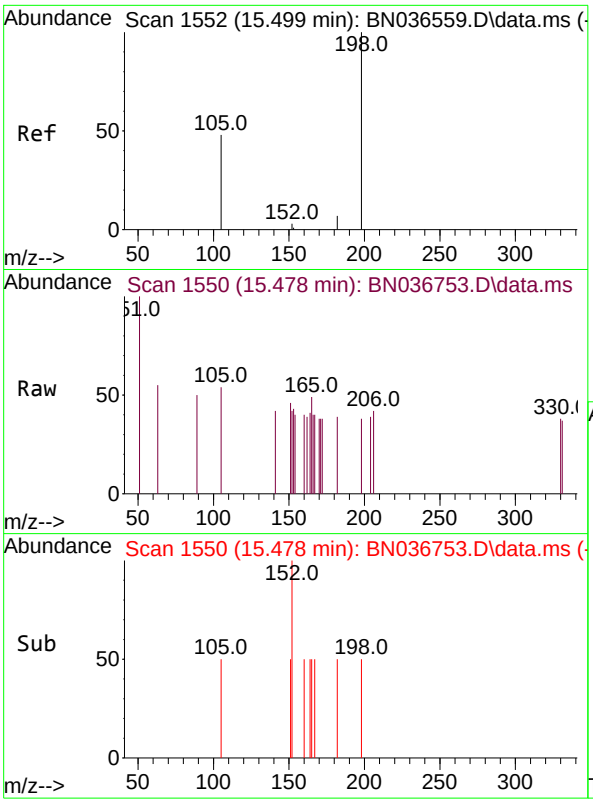


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:188 Resp: 4871

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.2	8.8	13.2#



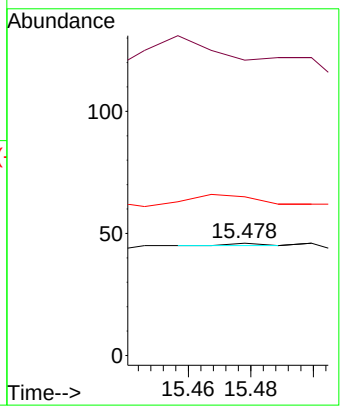


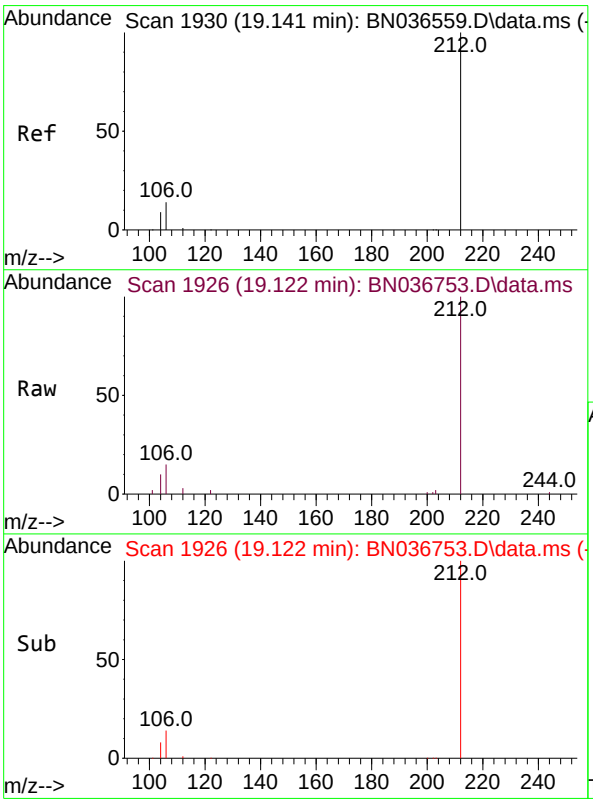
#20
4,6-Dinitro-2-methylphenol
Concen: 0.147 ng
RT: 15.478 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Tgt Ion:198 Resp: 1

Ion	Ratio	Lower	Upper
198	100		
51	263.0	107.9	161.9#
105	141.3	56.2	84.2#

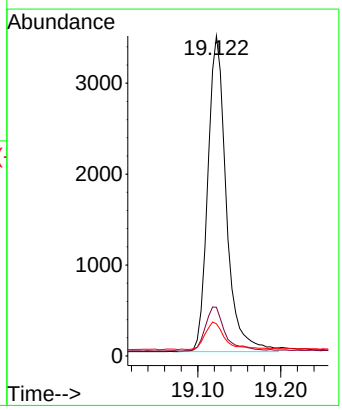


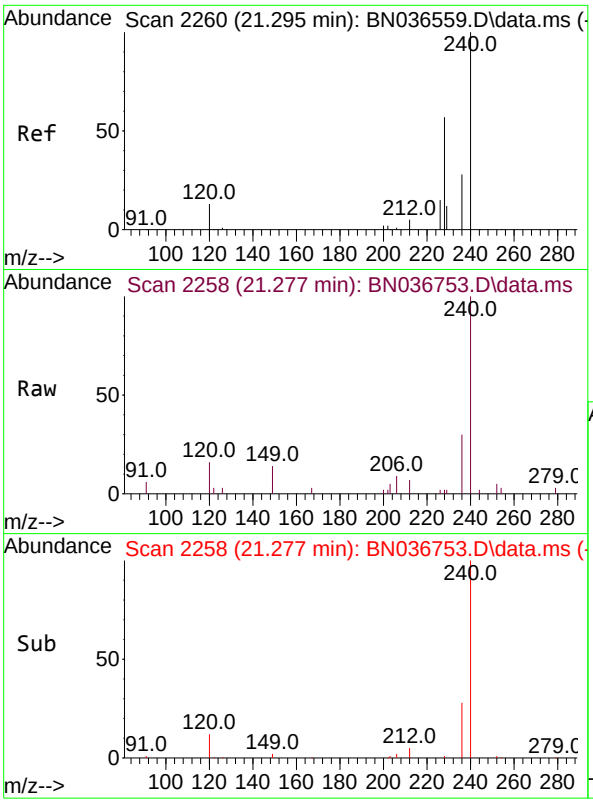


#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.122 min Scan# 1926
Delta R.T. -0.018 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:212 Resp: 5370

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.2	7.3	10.9



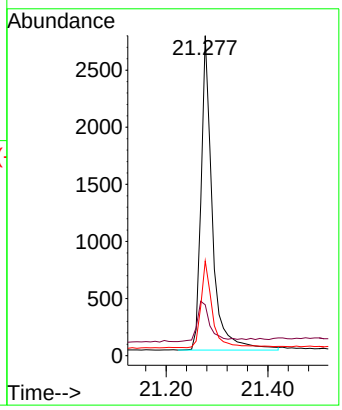


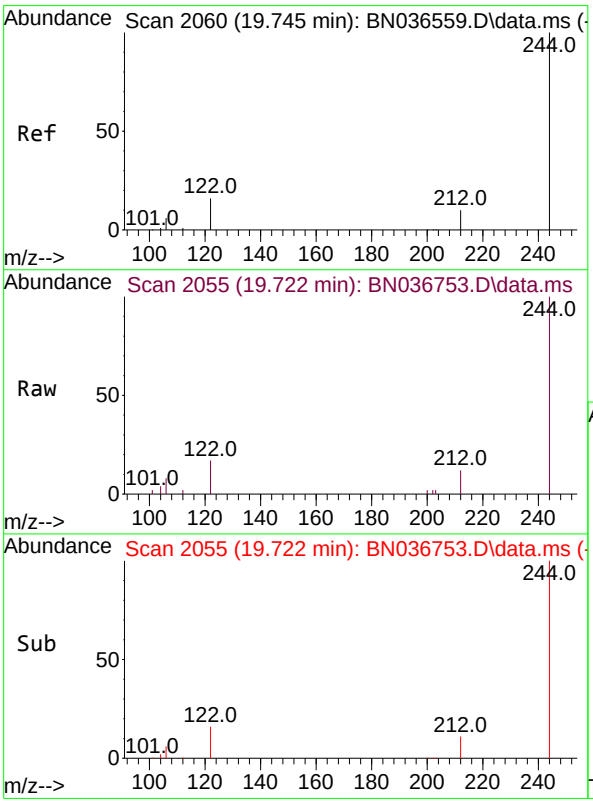
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Tgt Ion:240 Resp: 4219

Ion	Ratio	Lower	Upper
240	100		
120	15.9	14.6	22.0
236	29.6	24.1	36.1

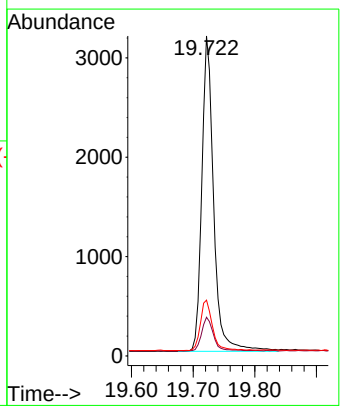


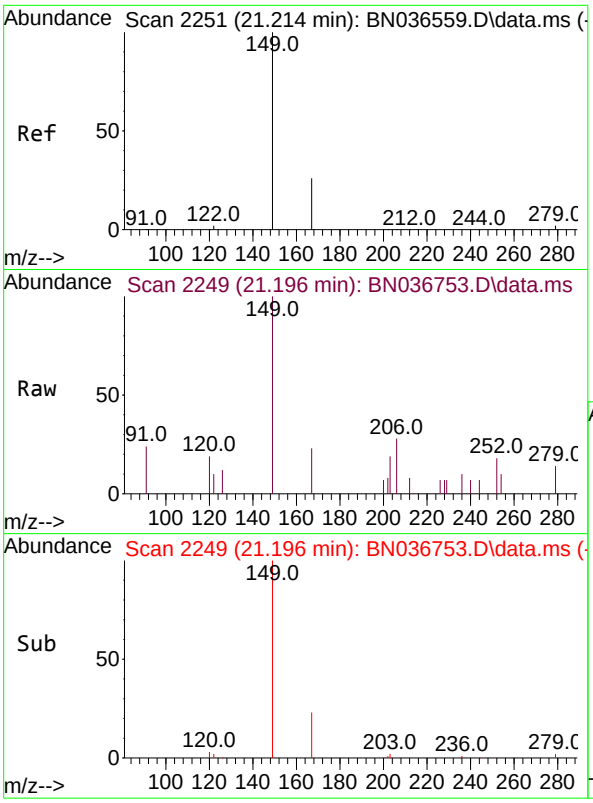


#31
Terphenyl-d14
Concen: 0.419 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:244 Resp: 4233

Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	17.4	13.9	20.9



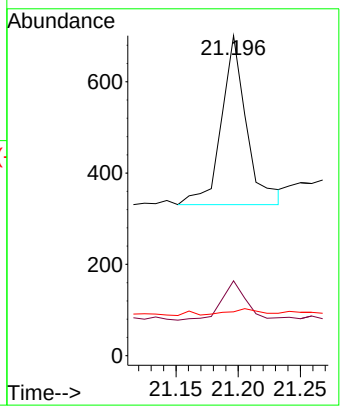


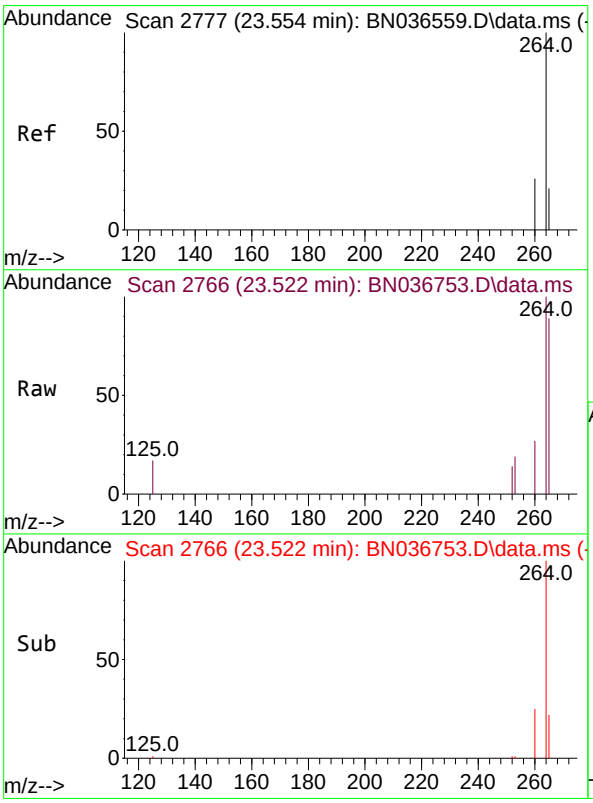
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.050 ng
RT: 21.196 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
RE117D2-20250319

Tgt Ion:149 Resp: 518

Ion	Ratio	Lower	Upper
149	100		
167	22.8	20.7	31.1
279	4.8	3.6	5.4

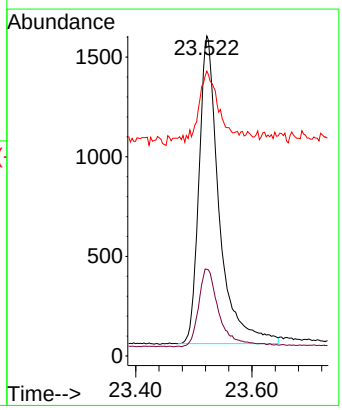




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2766
Delta R.T. -0.032 min
Lab File: BN036753.D
Acq: 28 Mar 2025 00:39

Tgt Ion:264 Resp: 3720

Ion	Ratio	Lower	Upper
264	100		
260	27.1	22.6	33.8
265	89.0	88.1	132.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036754.D
Acq On : 28 Mar 2025 01:16
Operator : RC/JU
Sample : PB167232BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Quant Time: Mar 28 01:40:24 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

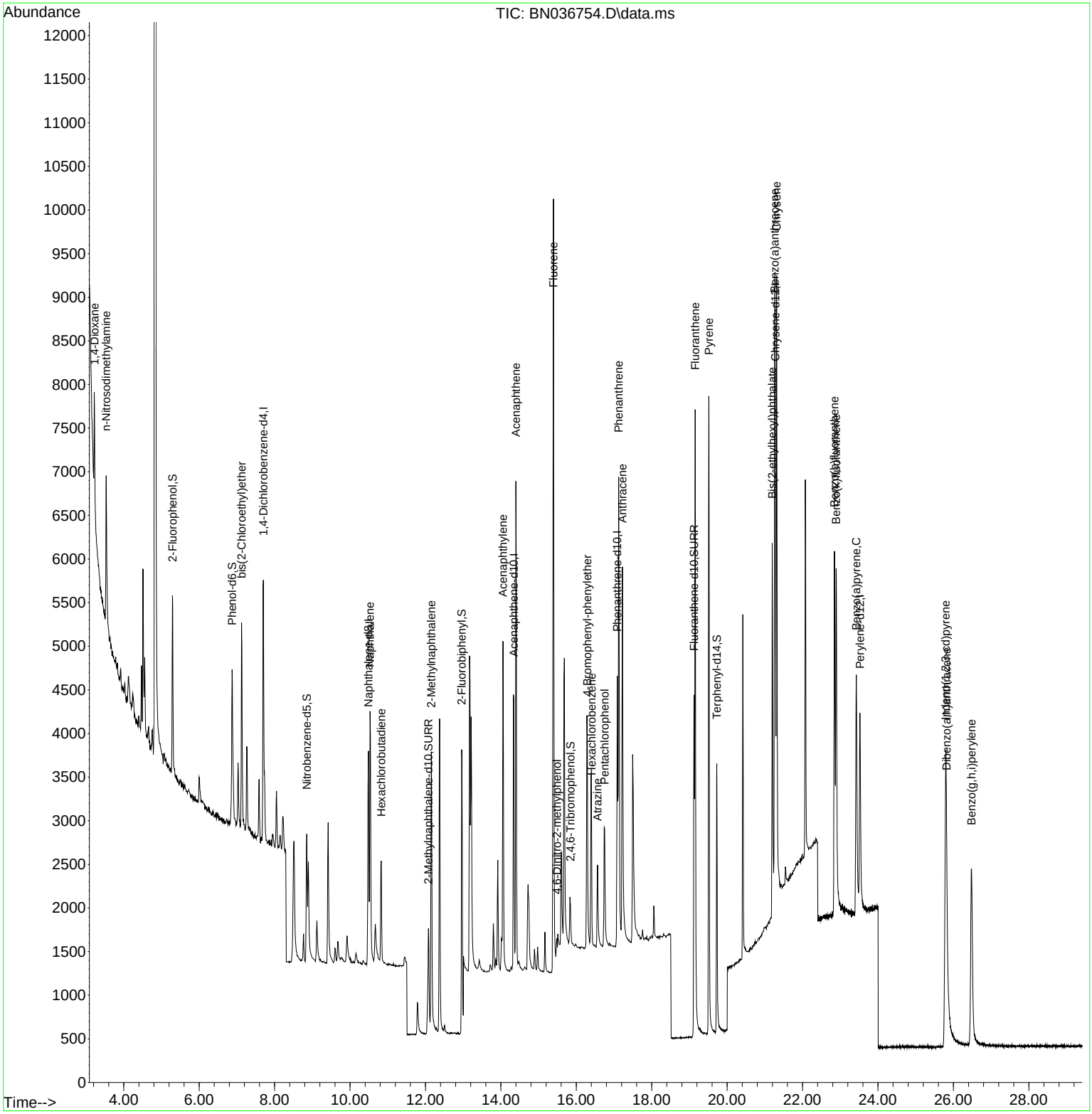
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1547	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3543	0.400	ng	-0.02
13) Acenaphthene-d10	14.345	164	1990	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4558	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3774	0.400	ng	-0.02
35) Perylene-d12	23.522	264	3342	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	1519	0.421	ng	-0.01
5) Phenol-d6	6.872	99	1739	0.390	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1403	0.364	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2650	0.503	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	385	0.426	ng	-0.01
15) 2-Fluorobiphenyl	12.963	172	4716	0.407	ng	-0.03
27) Fluoranthene-d10	19.122	212	4920	0.421	ng	-0.02
31) Terphenyl-d14	19.726	244	3549	0.392	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	640	0.373	ng	# 4
3) n-Nitrosodimethylamine	3.535	42	1568	0.452	ng	94
6) bis(2-Chloroethyl)ether	7.125	93	1785	0.388	ng	100
9) Naphthalene	10.530	128	4314	0.414	ng	97
10) Hexachlorobutadiene	10.829	225	1038	0.423	ng	# 98
12) 2-Methylnaphthalene	12.156	142	2710	0.409	ng	98
16) Acenaphthylene	14.056	152	4201	0.447	ng	99
17) Acenaphthene	14.398	154	2710	0.441	ng	100
18) Fluorene	15.392	166	3766	0.453	ng	100
20) 4,6-Dinitro-2-methylph...	15.489	198	352	0.448	ng	# 81
21) 4-Bromophenyl-phenylether	16.292	248	1221	0.428	ng	# 82
22) Hexachlorobenzene	16.404	284	1411	0.409	ng	97
23) Atrazine	16.565	200	1039	0.454	ng	94
24) Pentachlorophenol	16.751	266	929	0.591	ng	98
25) Phenanthrene	17.124	178	6147	0.450	ng	100
26) Anthracene	17.223	178	5654	0.458	ng	98
28) Fluoranthene	19.155	202	7284	0.474	ng	99
30) Pyrene	19.517	202	7541	0.409	ng	100
32) Benzo(a)anthracene	21.259	228	5618	0.428	ng	99
33) Chrysene	21.313	228	6823	0.476	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3502	0.375	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.794	276	5692	0.472	ng	98
37) Benzo(b)fluoranthene	22.847	252	5584	0.459	ng	96
38) Benzo(k)fluoranthene	22.891	252	6025	0.472	ng	96
39) Benzo(a)pyrene	23.426	252	4879	0.476	ng	# 93
40) Dibenzo(a,h)anthracene	25.817	278	4207	0.448	ng	96
41) Benzo(g,h,i)perylene	26.478	276	4660	0.434	ng	95

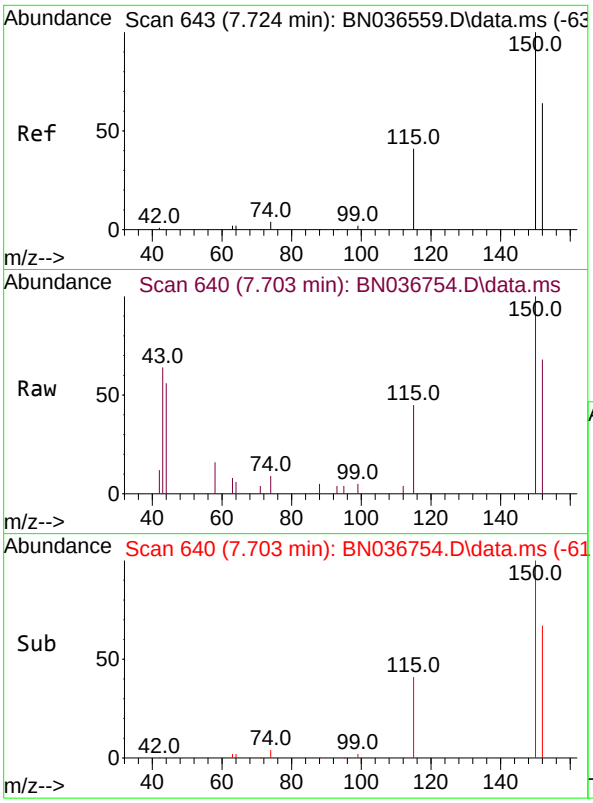
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036754.D
Acq On : 28 Mar 2025 01:16
Operator : RC/JU
Sample : PB167232BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Quant Time: Mar 28 01:40:24 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



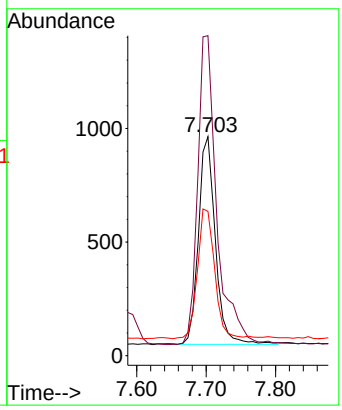


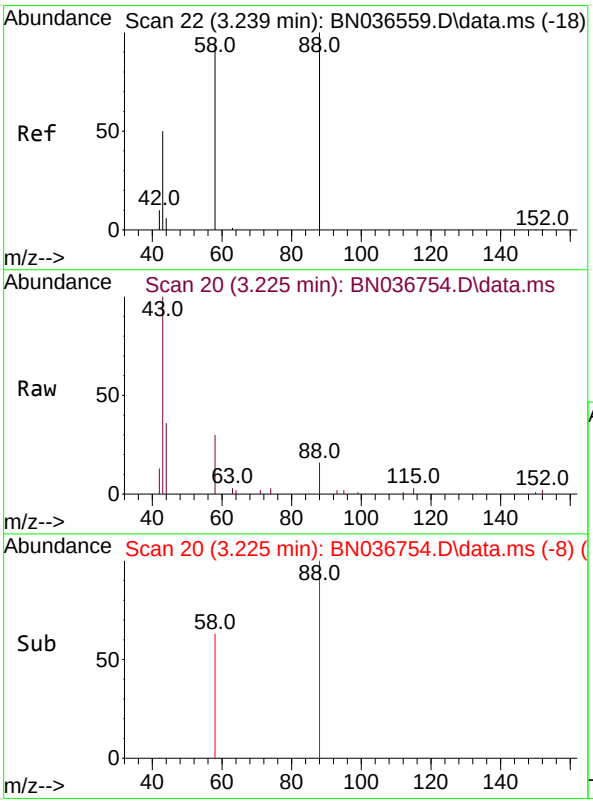
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:152 Resp: 1547

Ion	Ratio	Lower	Upper
152	100		
150	146.1	123.7	185.5
115	65.9	54.3	81.5

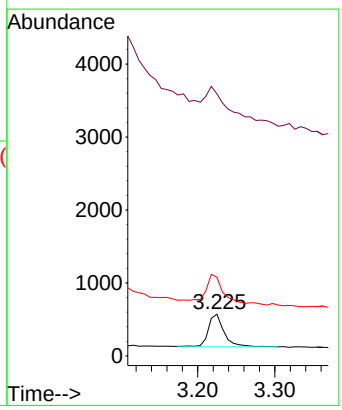


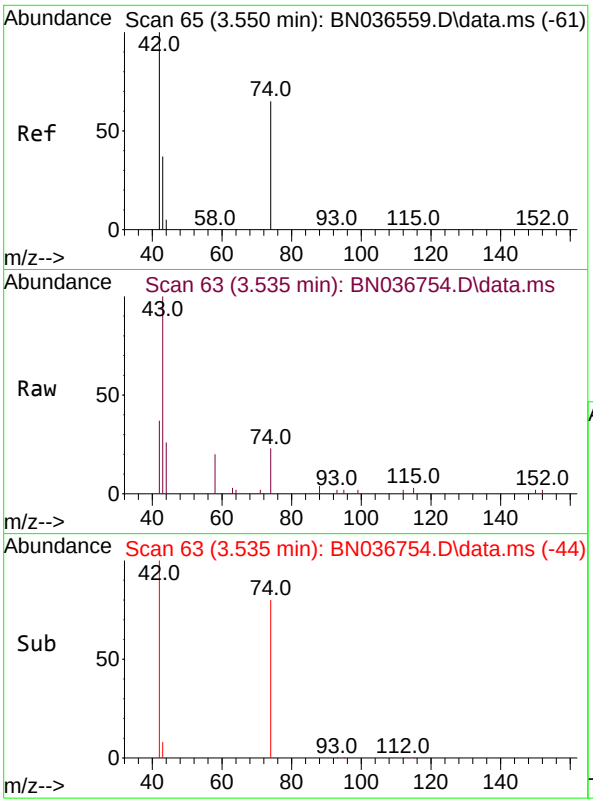


#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion: 88 Resp: 640

Ion	Ratio	Lower	Upper
88	100		
43	193.1	37.8	56.8#
58	109.7	67.4	101.2#



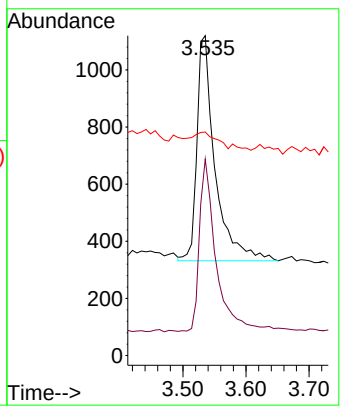


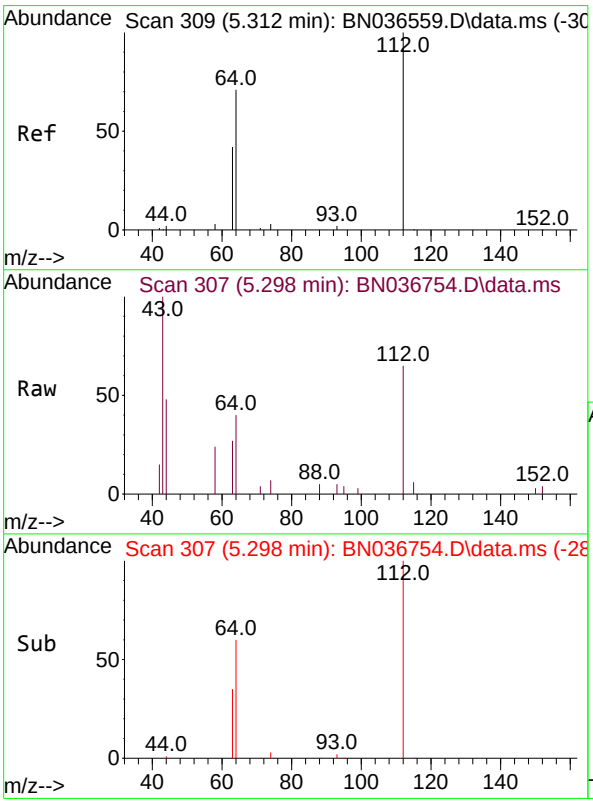
#3
n-Nitrosodimethylamine
Concen: 0.452 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion: 42 Resp: 1568

Ion	Ratio	Lower	Upper
42	100		
74	70.5	60.6	90.8
44	9.2	6.3	9.5

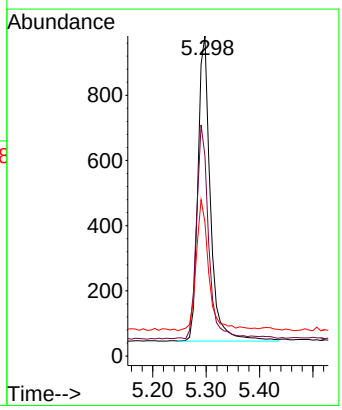


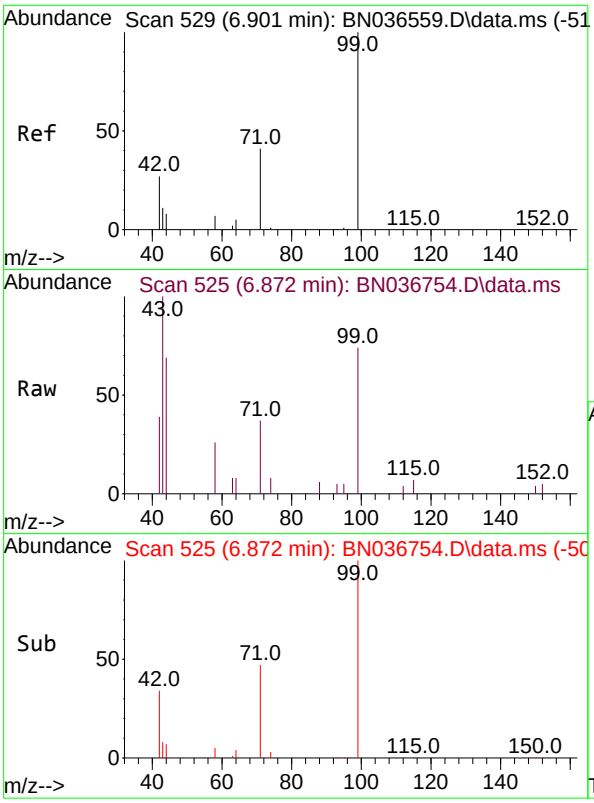


#4
2-Fluorophenol
Concen: 0.421 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.014 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:112 Resp: 1519

Ion	Ratio	Lower	Upper
112	100		
64	69.1	53.1	79.7
63	43.6	31.8	47.8



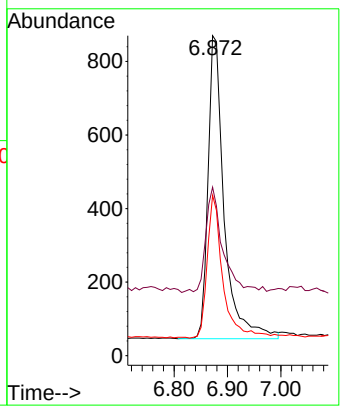


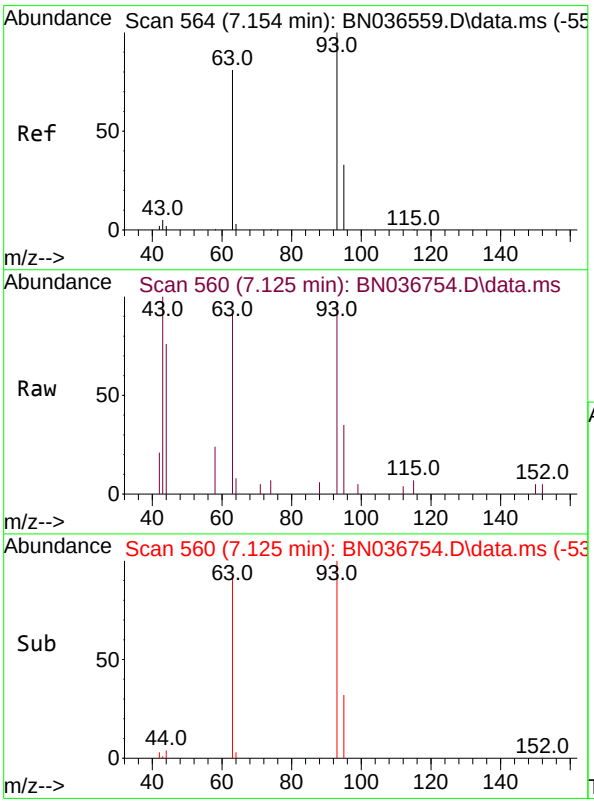
#5
Phenol-d6
Concen: 0.390 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion: 99 Resp: 1739

Ion	Ratio	Lower	Upper
99	100		
42	36.7	26.5	39.7
71	45.3	34.1	51.1

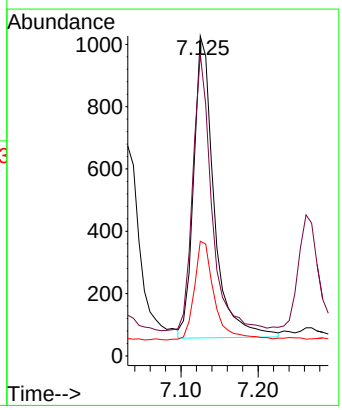


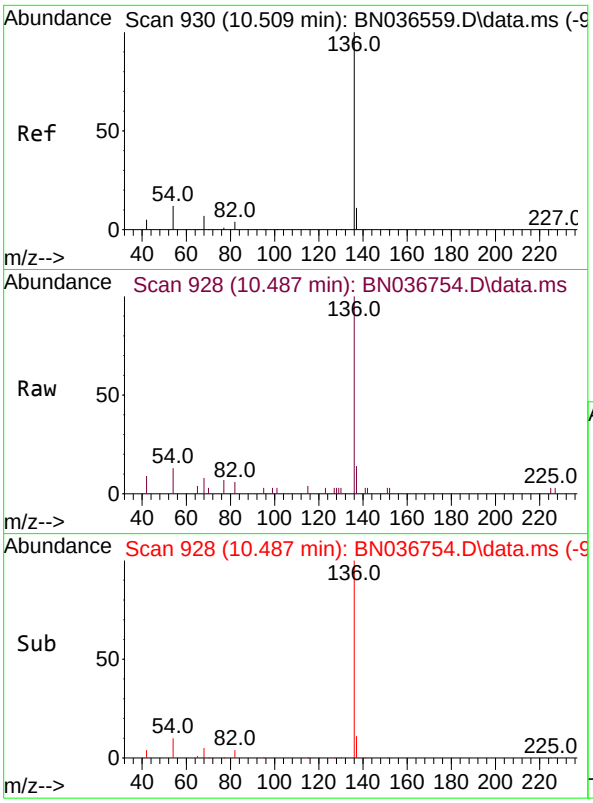


#6
bis(2-Chloroethyl)ether
Concen: 0.388 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion: 93 Resp: 1785

Ion	Ratio	Lower	Upper
93	100		
63	84.8	67.7	101.5
95	32.4	25.6	38.4



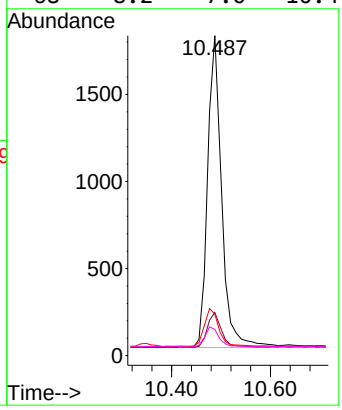


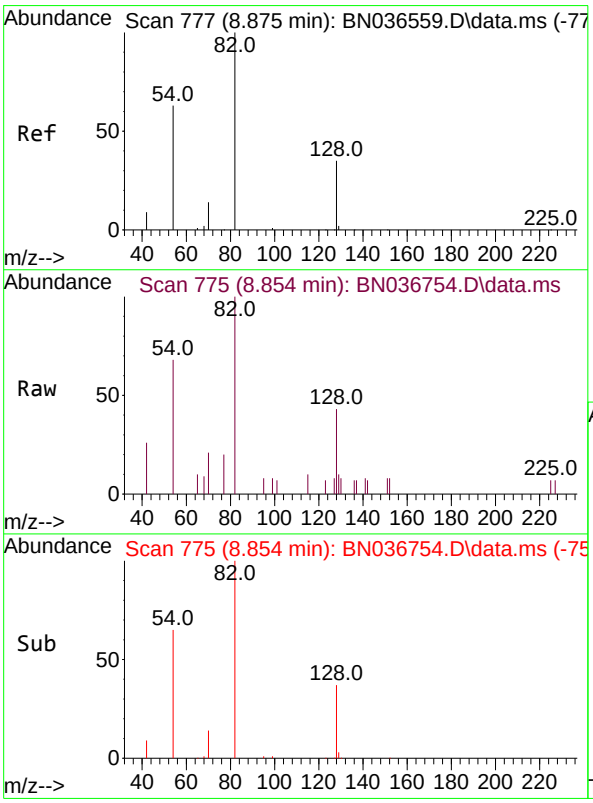
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:136 Resp: 3543

Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.3	15.5
54	13.0	11.5	17.3
68	8.2	7.0	10.4

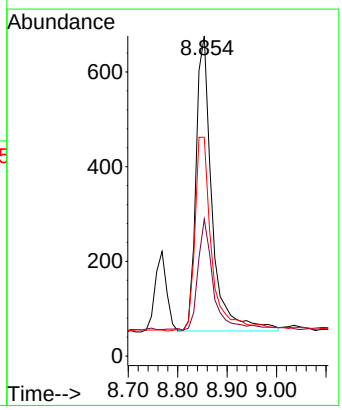


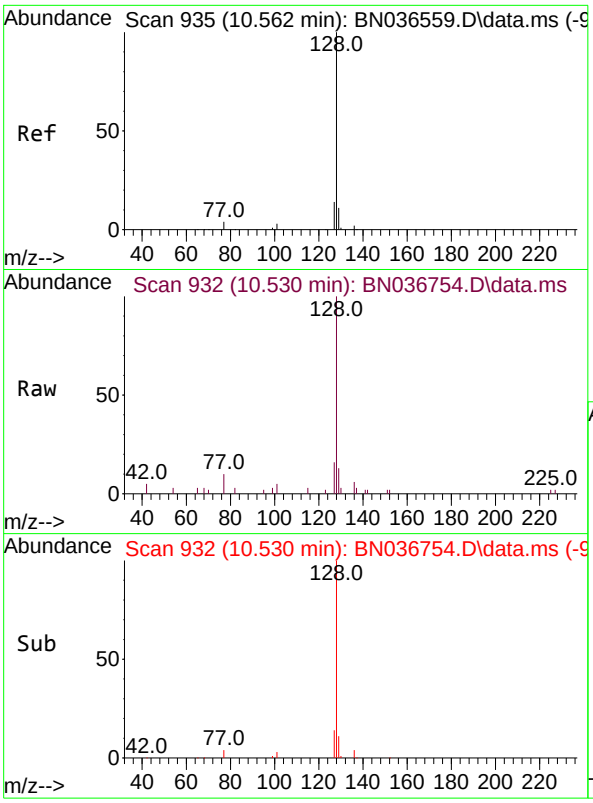


#8
Nitrobenzene-d5
Concen: 0.364 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion: 82 Resp: 1403

Ion	Ratio	Lower	Upper
82	100		
128	42.8	30.6	45.8
54	68.3	52.2	78.4



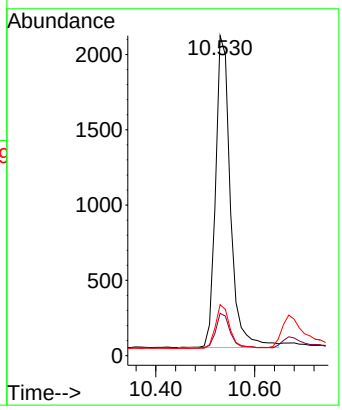


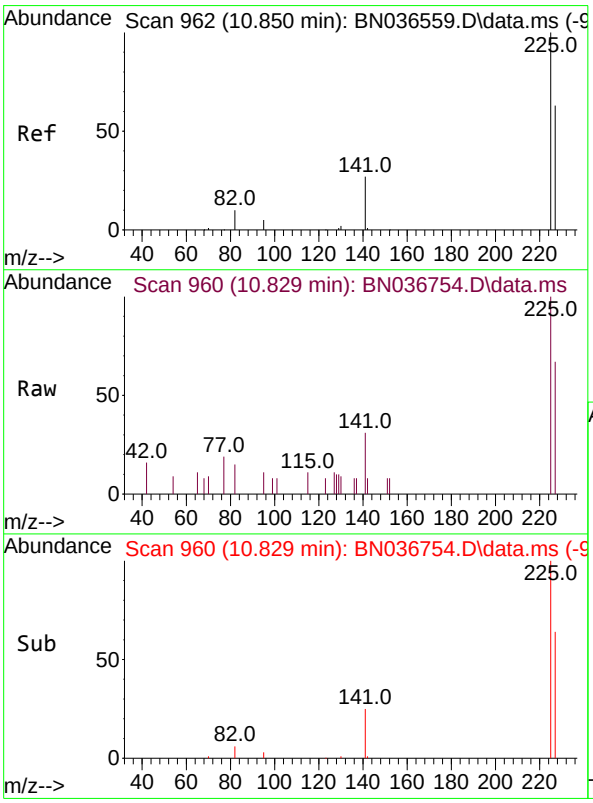
#9
Naphthalene
Concen: 0.414 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:128 Resp: 4314

Ion	Ratio	Lower	Upper
128	100		
129	13.2	9.8	14.6
127	16.0	11.8	17.8

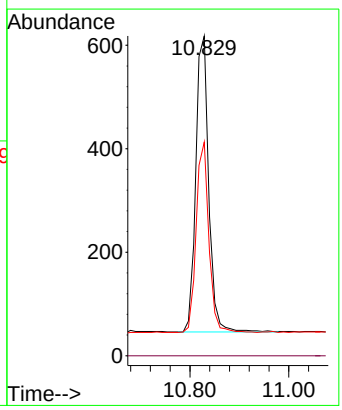


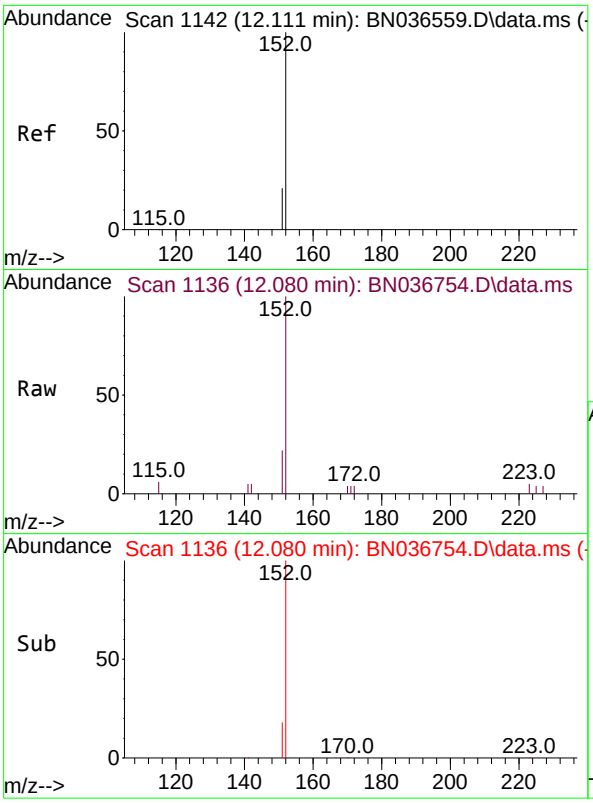


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:225 Resp: 1038

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	51.8	77.8



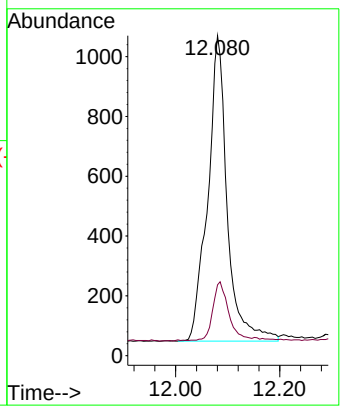


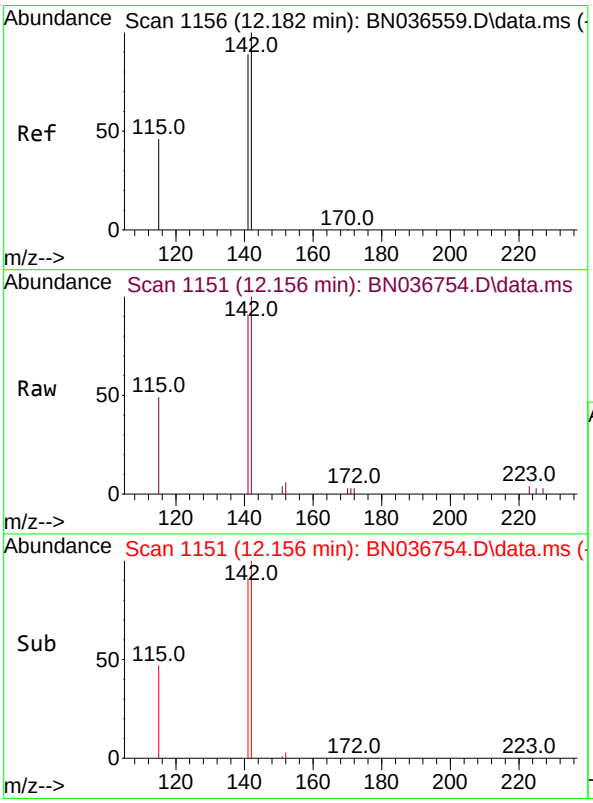
#11
2-Methylnaphthalene-d10
Concen: 0.503 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:152 Resp: 2650

Ion	Ratio	Lower	Upper
152	100		
151	15.4	17.0	25.6#

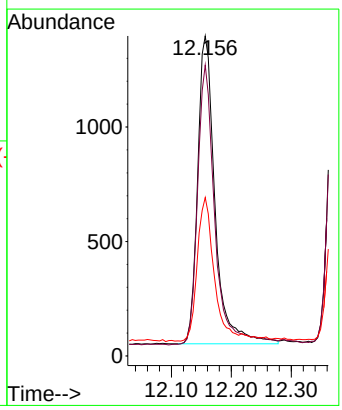


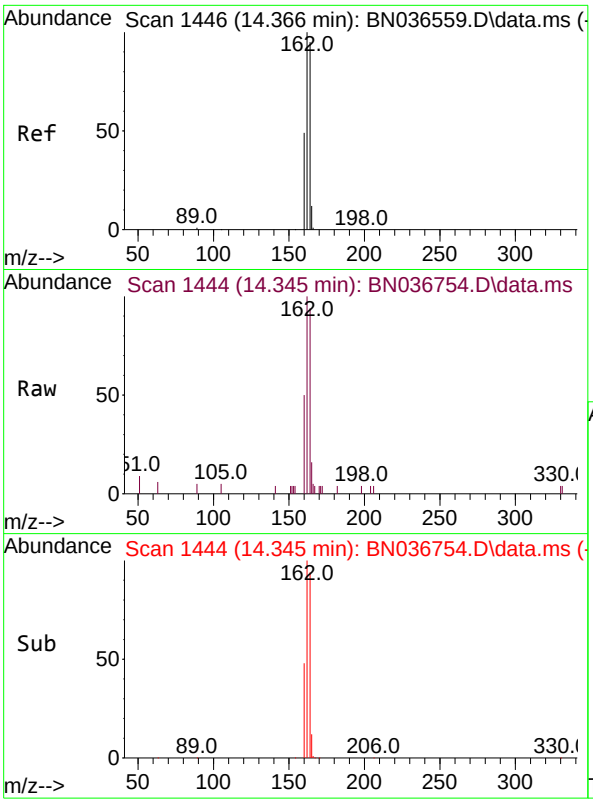


#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:142 Resp: 2710

Ion	Ratio	Lower	Upper
142	100		
141	90.9	71.7	107.5
115	49.5	38.3	57.5



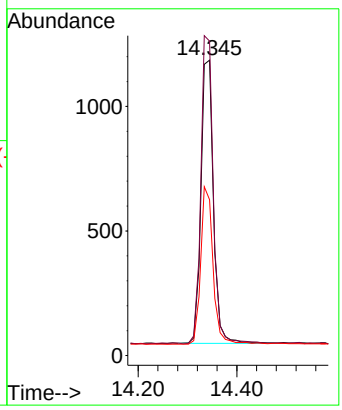


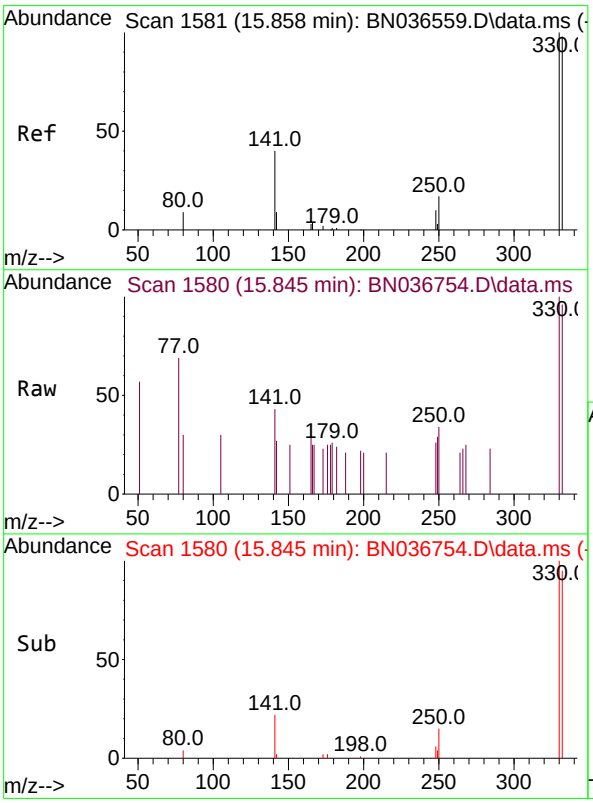
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:164 Resp: 1990

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.2
160	52.8	42.2	63.2

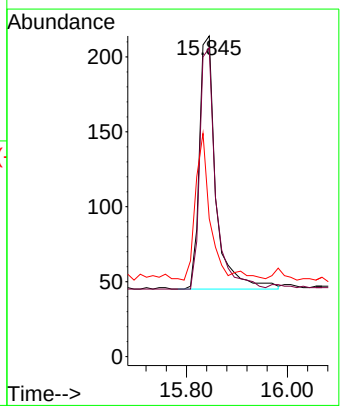


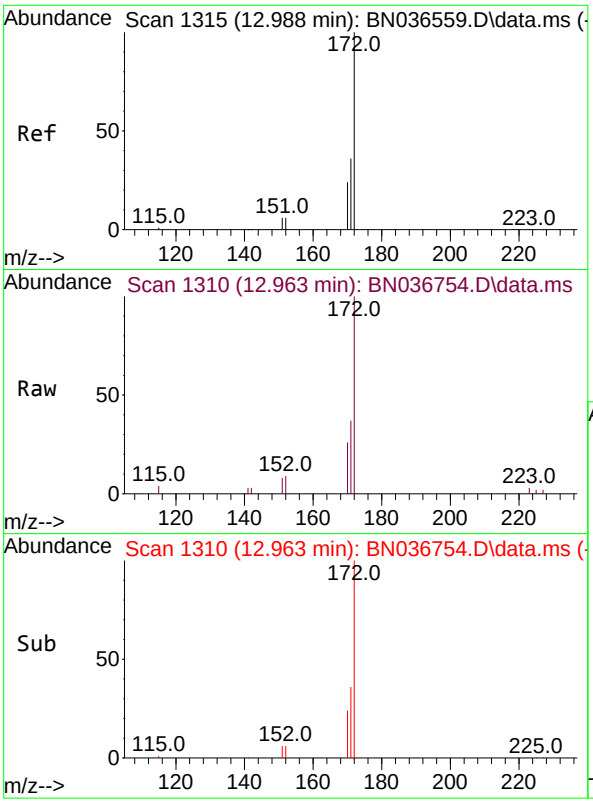


#14
2,4,6-Tribromophenol
Concen: 0.426 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:330 Resp: 385

Ion	Ratio	Lower	Upper
330	100		
332	92.5	75.2	112.8
141	48.8	43.4	65.2



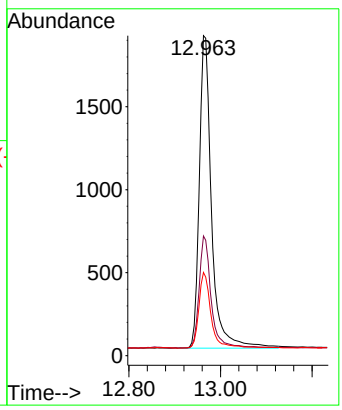


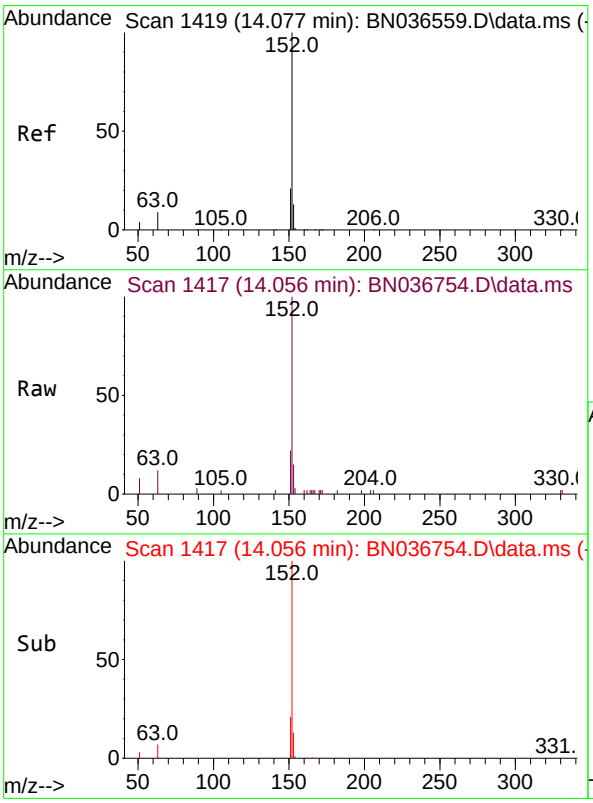
#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:172 Resp: 4716

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.5	44.3
170	26.0	20.2	30.4

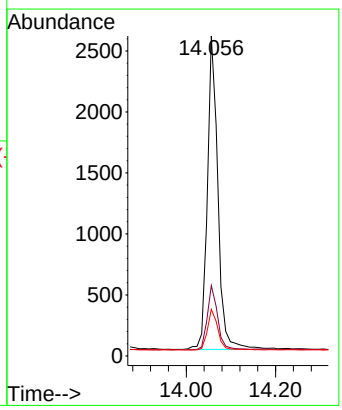


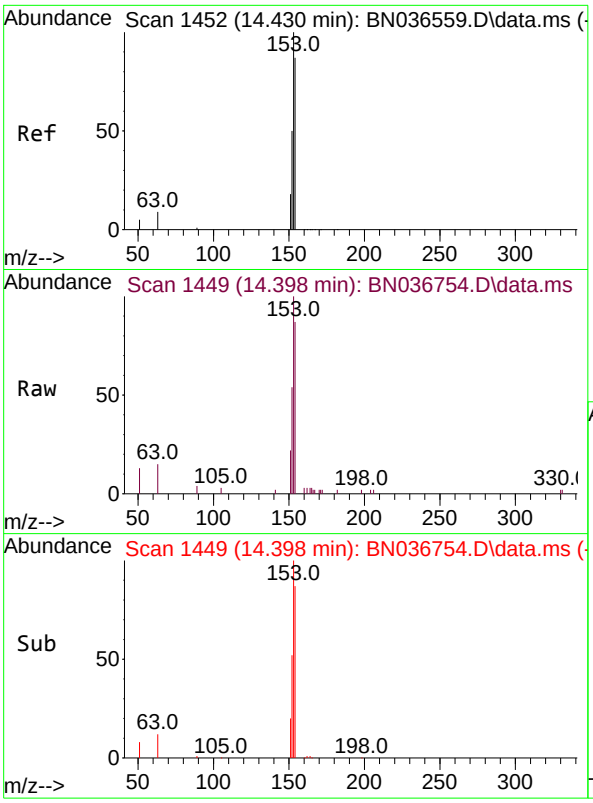


#16
Acenaphthylene
Concen: 0.447 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:152 Resp: 4201

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.8	10.6	15.8



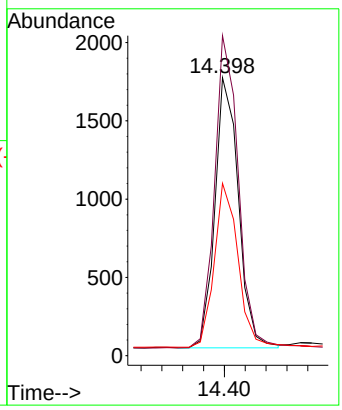


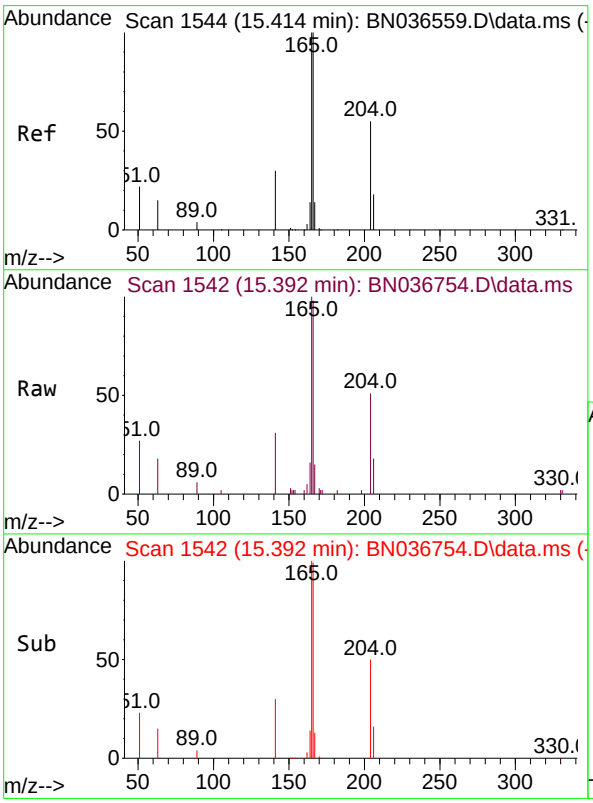
#17
Acenaphthene
Concen: 0.441 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:154 Resp: 2710

Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.1	141.1
152	62.5	49.8	74.6

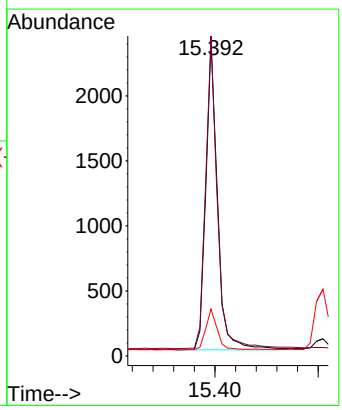


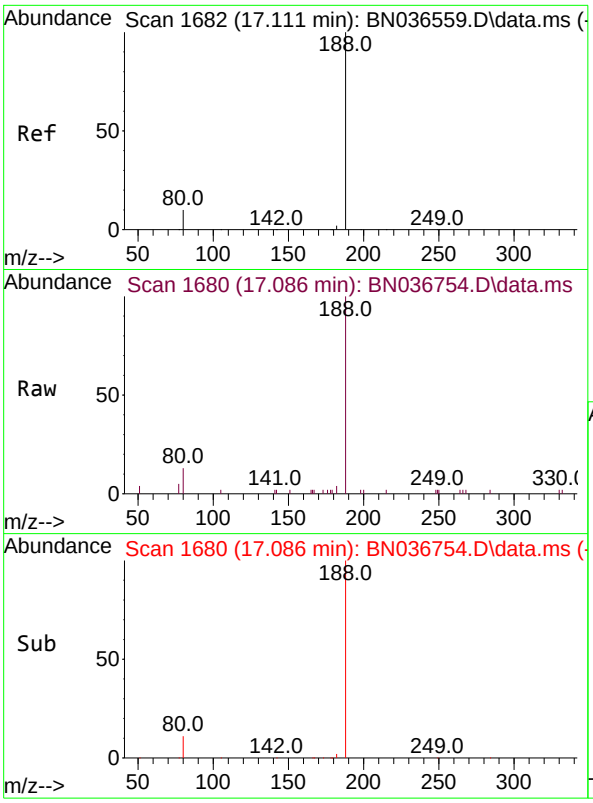


#18
Fluorene
Concen: 0.453 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:166 Resp: 3766

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.8	119.8
167	12.9	10.6	15.8



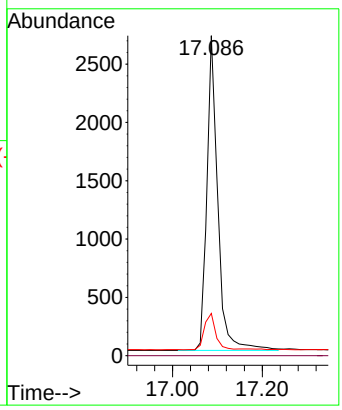


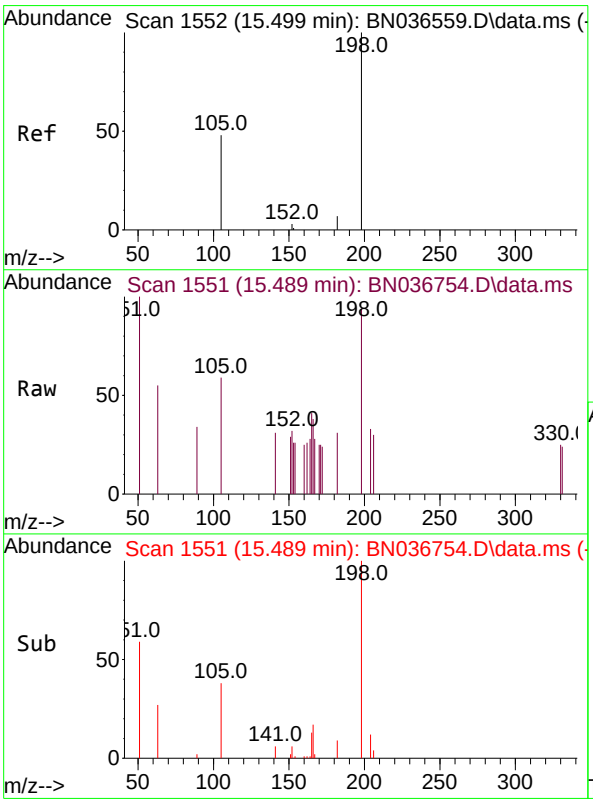
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:188 Resp: 4558

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

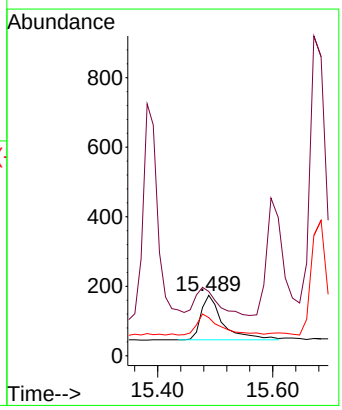


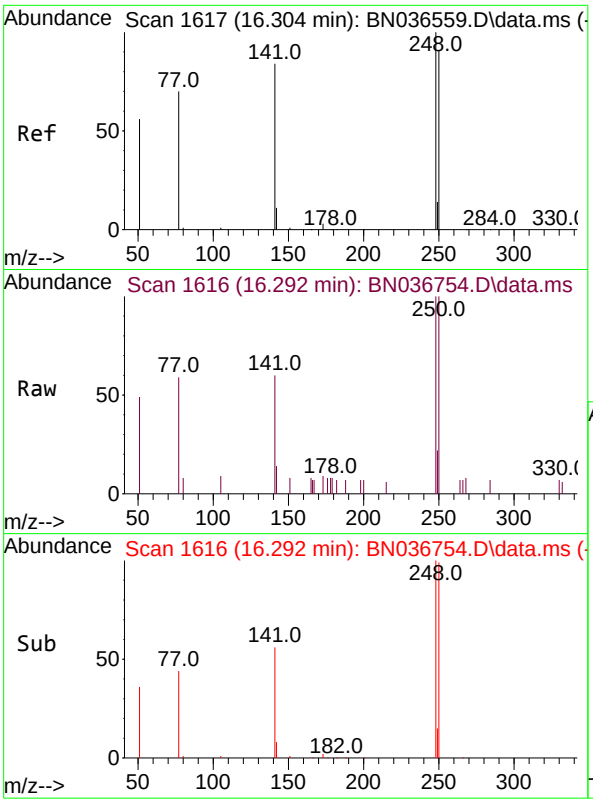


#20
4,6-Dinitro-2-methylphenol
Concen: 0.448 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:198 Resp: 352

Ion	Ratio	Lower	Upper
198	100		
51	106.3	107.9	161.9#
105	63.2	56.2	84.2



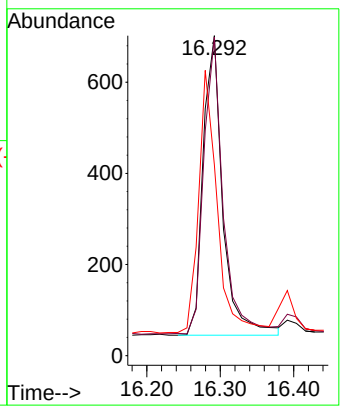


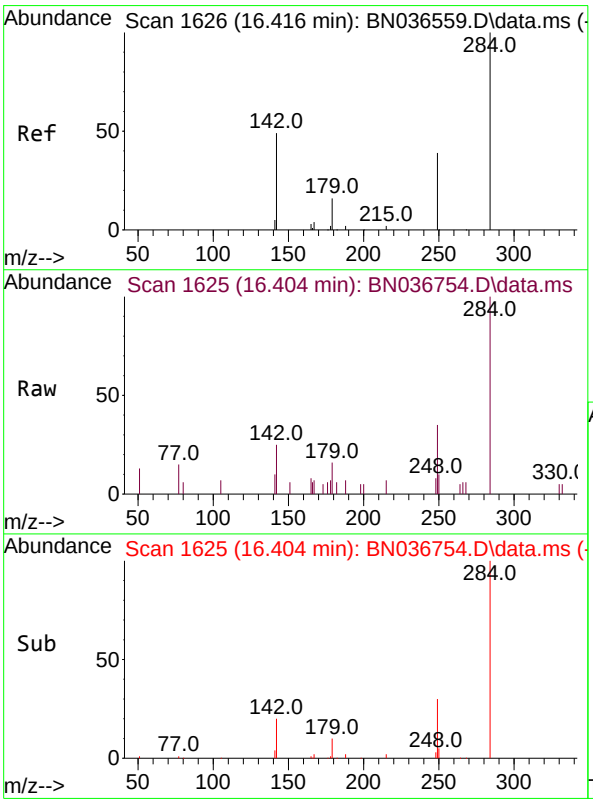
#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.292 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:248 Resp: 1221

Ion	Ratio	Lower	Upper
248	100		
250	99.6	73.0	109.6
141	59.7	68.6	103.0#

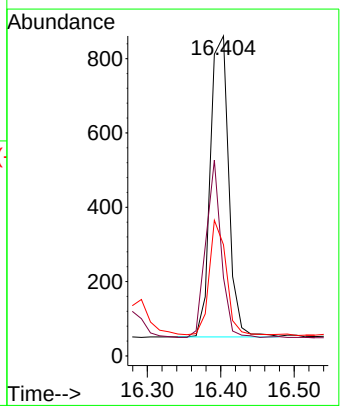


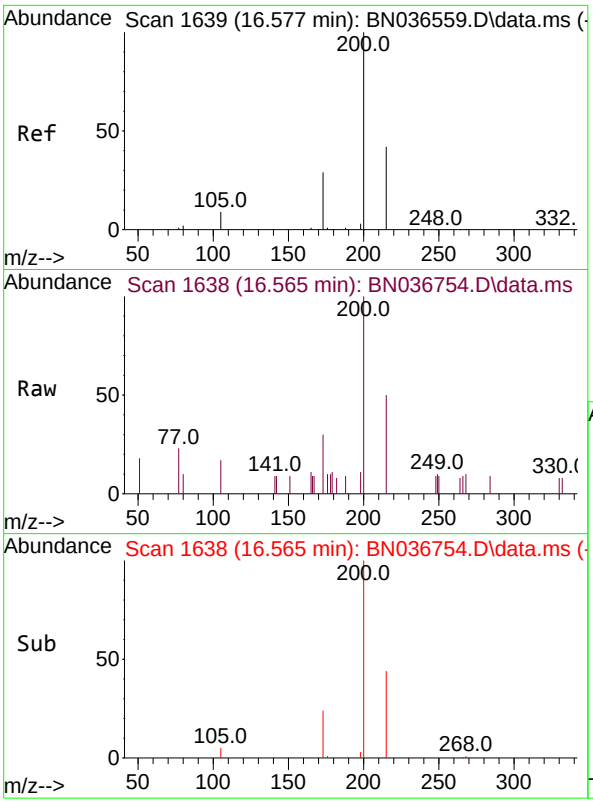


#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:284 Resp: 1411

Ion	Ratio	Lower	Upper
284	100		
142	49.0	37.0	55.4
249	34.9	28.1	42.1



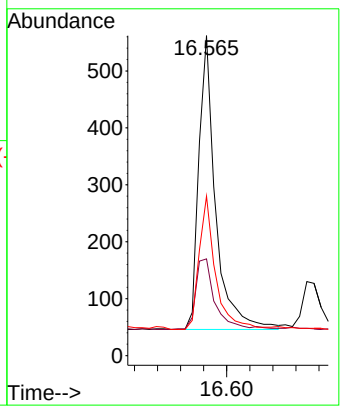


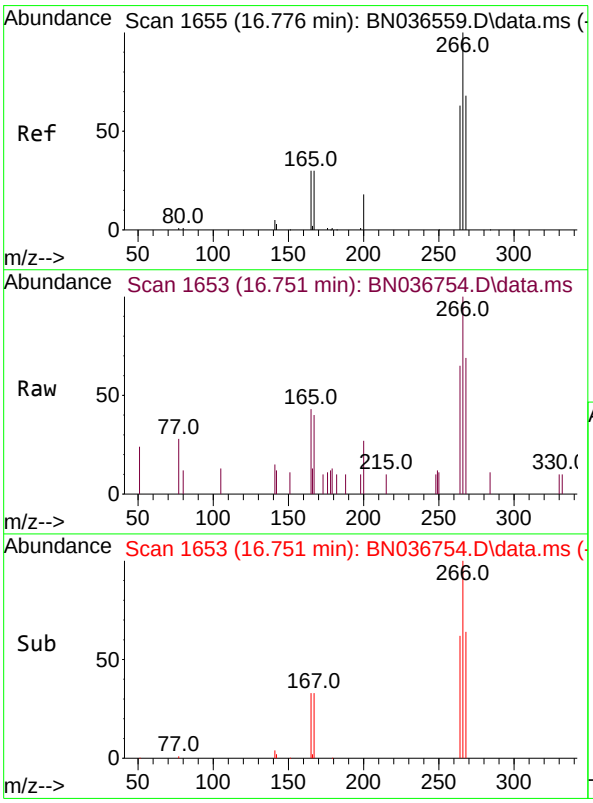
#23
Atrazine
Concen: 0.454 ng
RT: 16.565 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:200 Resp: 1039

Ion	Ratio	Lower	Upper
200	100		
173	30.2	27.3	40.9
215	49.8	36.8	55.2

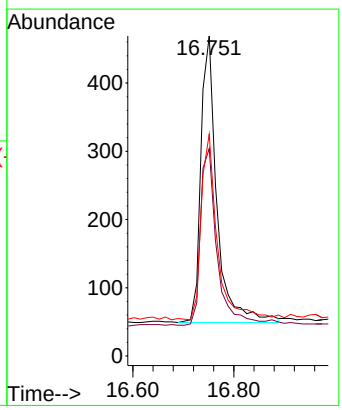


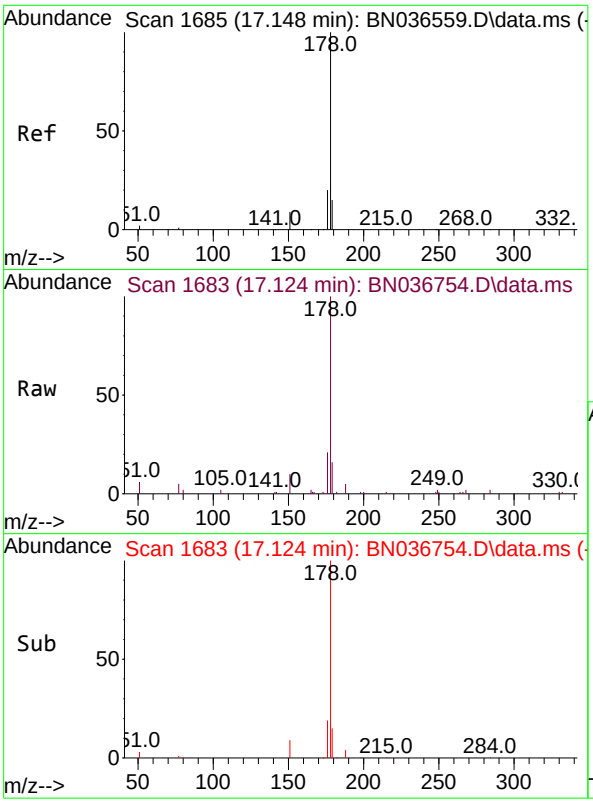


#24
Pentachlorophenol
Concen: 0.591 ng
RT: 16.751 min Scan# 1653
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:266 Resp: 929

Ion	Ratio	Lower	Upper
266	100		
264	64.3	49.6	74.4
268	64.3	50.9	76.3



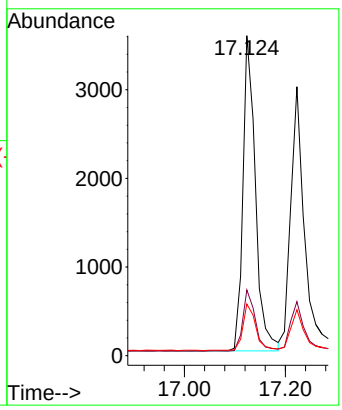


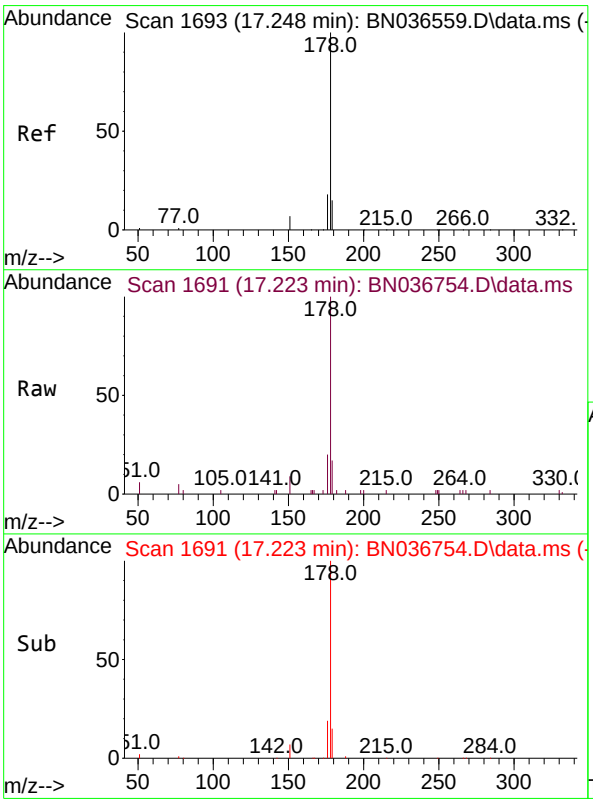
#25
Phenanthrene
Concen: 0.450 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:178 Resp: 6147

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.3	12.2	18.4

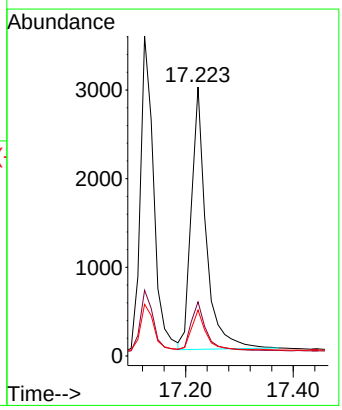


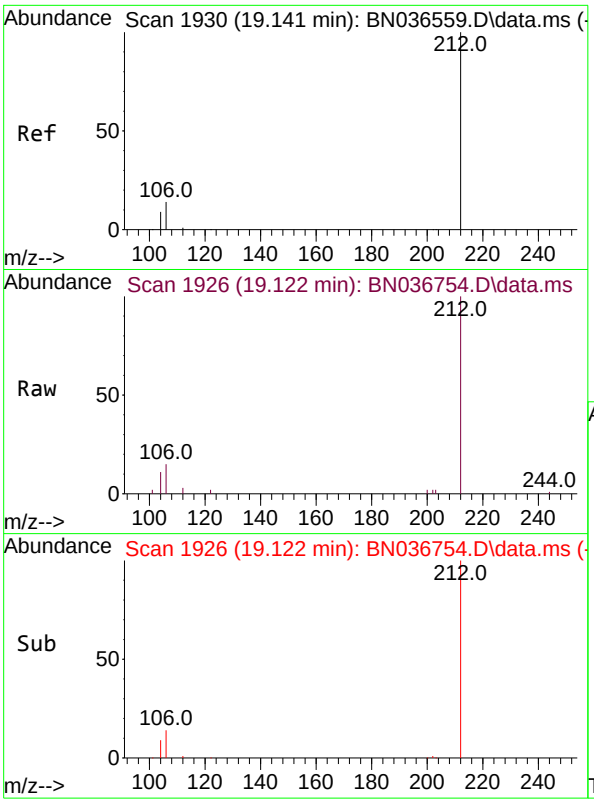


#26
Anthracene
Concen: 0.458 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:178 Resp: 5654

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	14.6	12.6	18.8



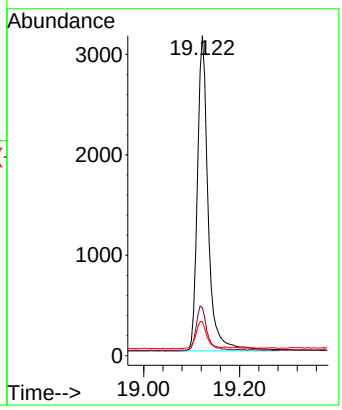


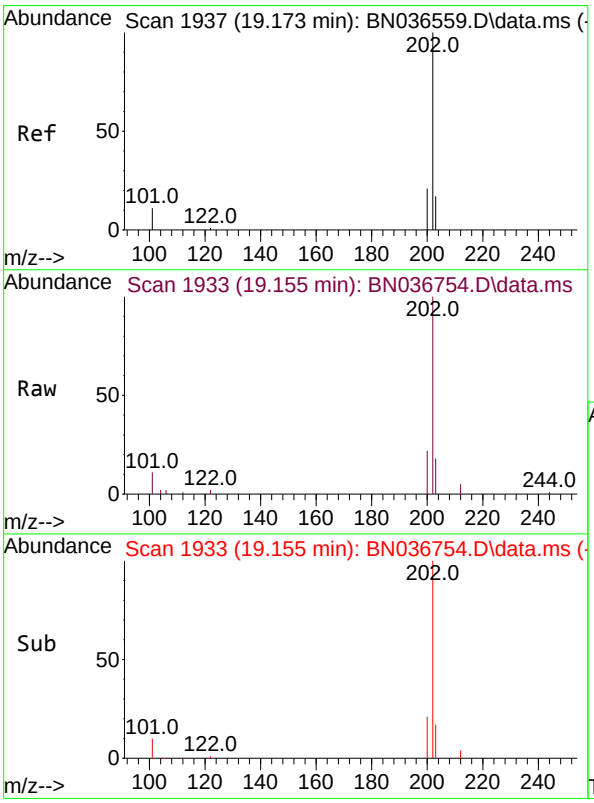
#27
Fluoranthene-d10
Concen: 0.421 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:212 Resp: 4920

Ion	Ratio	Lower	Upper
212	100		
106	14.0	11.8	17.6
104	8.8	7.3	10.9

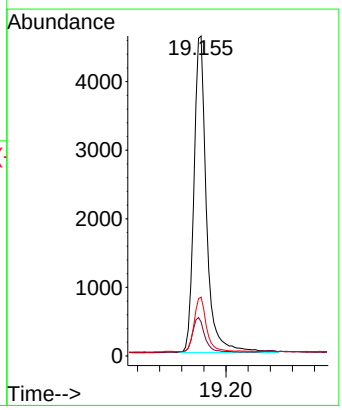


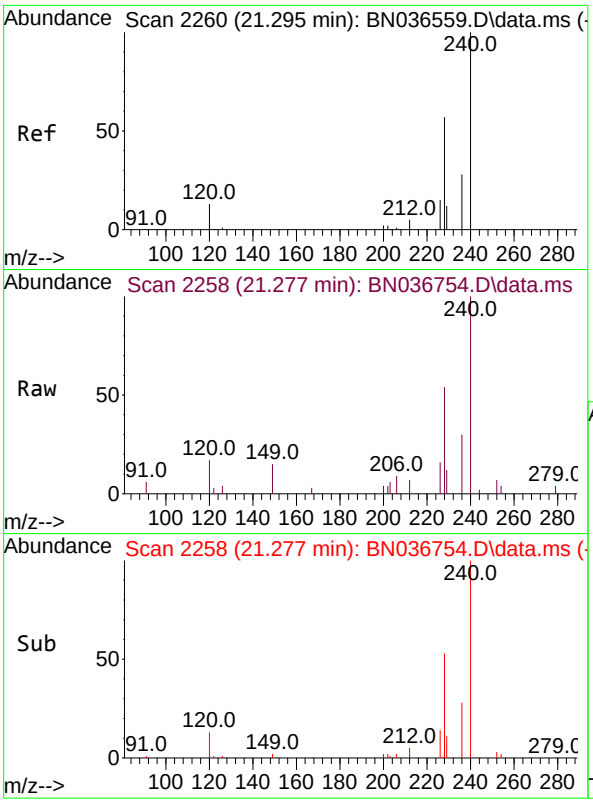


#28
Fluoranthene
Concen: 0.474 ng
RT: 19.155 min Scan# 1933
Delta R.T. -0.019 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:202 Resp: 7284

Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.4	14.0
203	16.8	13.5	20.3



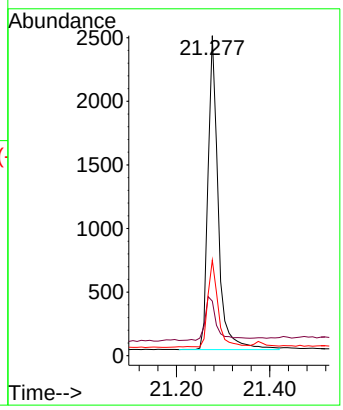


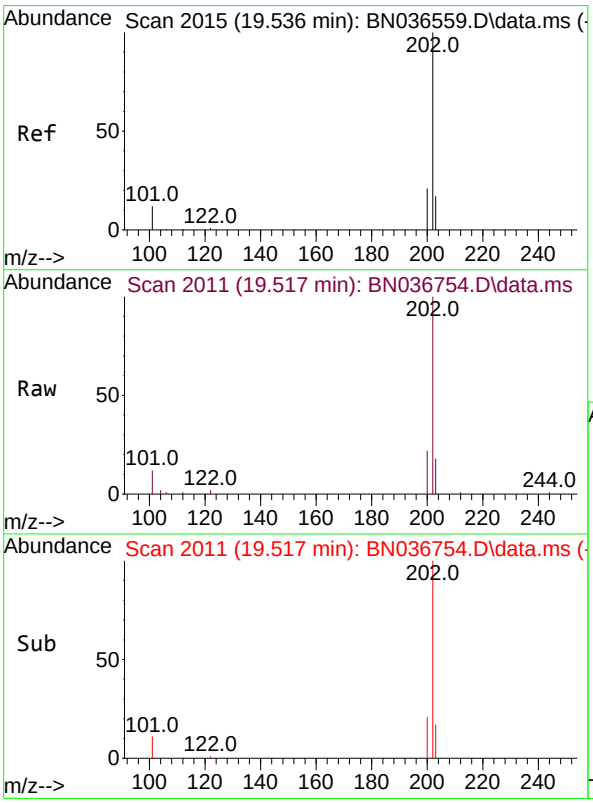
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:240 Resp: 3774

Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.6	22.0
236	29.9	24.1	36.1

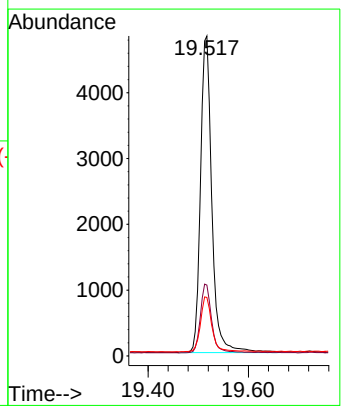


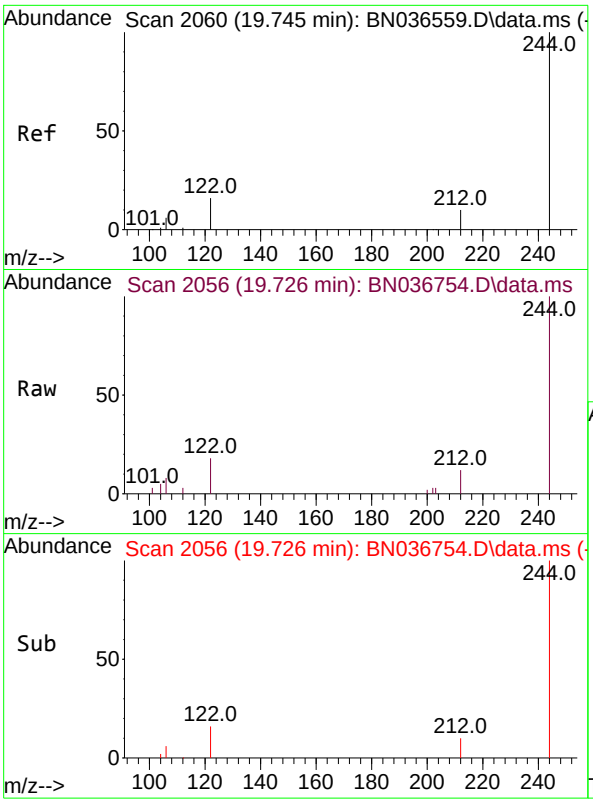


#30
Pyrene
Concen: 0.409 ng
RT: 19.517 min Scan# 2011
Delta R.T. -0.019 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:202 Resp: 7541

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.4	14.1	21.1



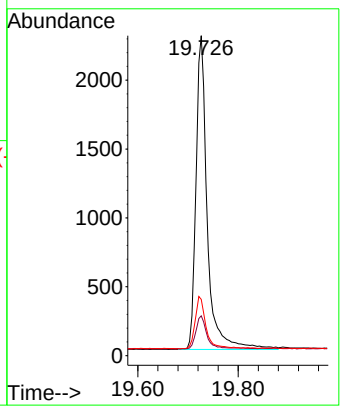


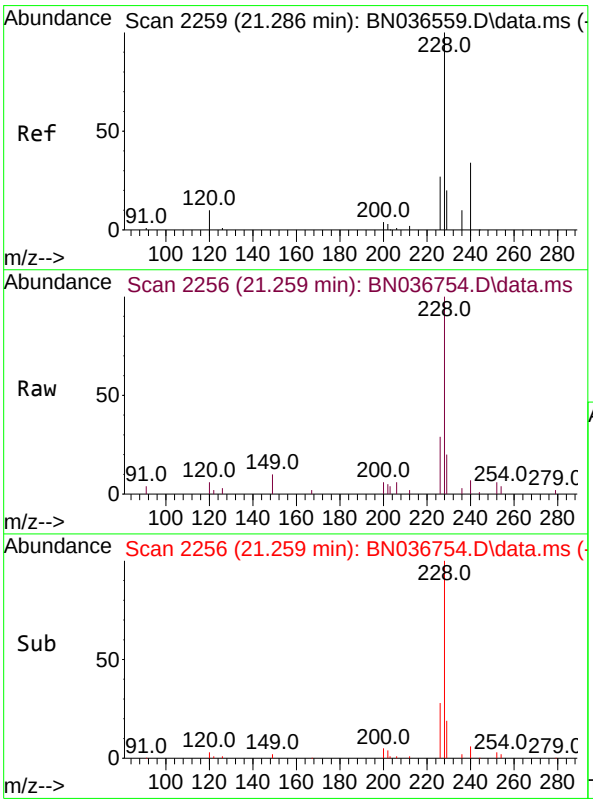
#31
Terphenyl-d14
Concen: 0.392 ng
RT: 19.726 min Scan# 2
Delta R.T. -0.019 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:244 Resp: 3549

Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.6	14.4
122	17.6	13.9	20.9

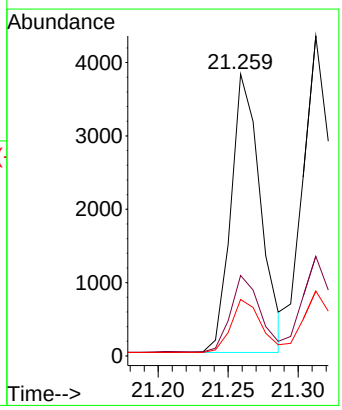


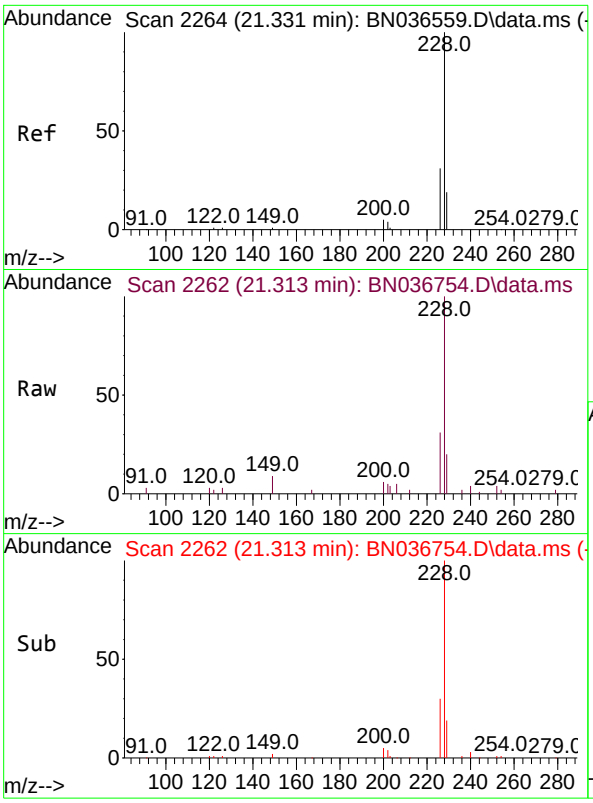


#32
Benzo(a)anthracene
Concen: 0.428 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:228 Resp: 5618

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.5	33.7
229	20.0	16.6	25.0



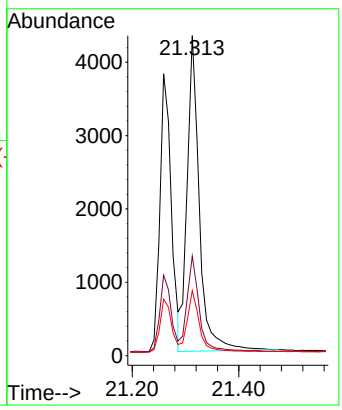


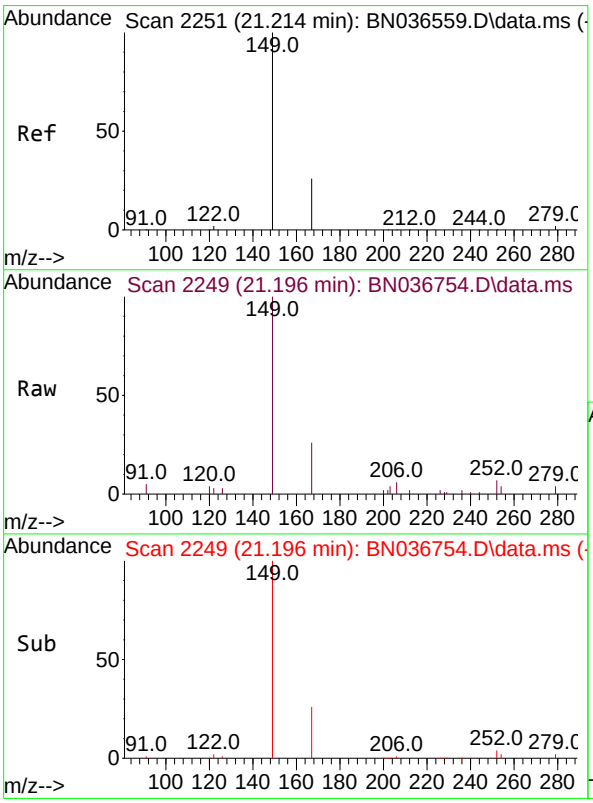
#33
Chrysene
Concen: 0.476 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:228 Resp: 6823

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.3	37.9
229	20.3	15.8	23.8

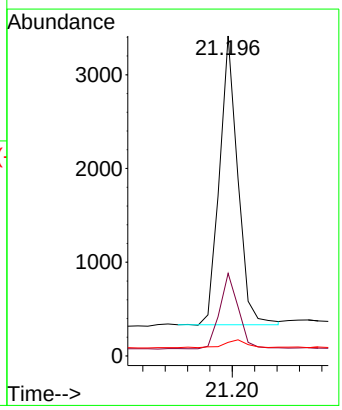


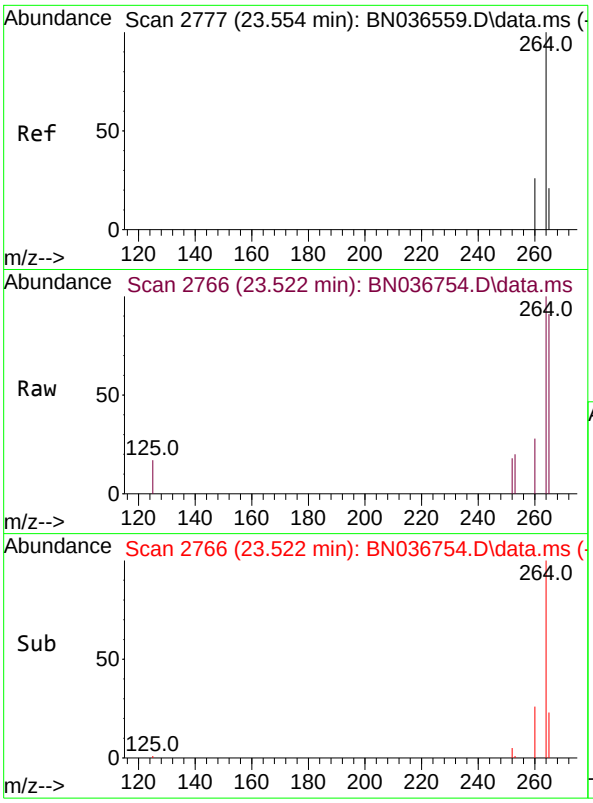


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.375 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:149 Resp: 3502

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.7	31.1
279	3.2	3.6	5.4#



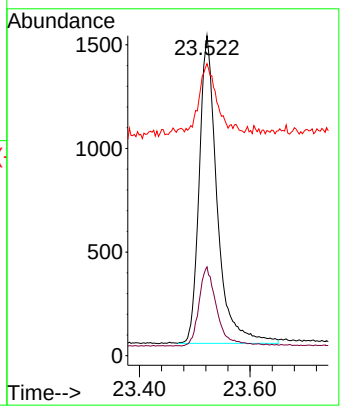


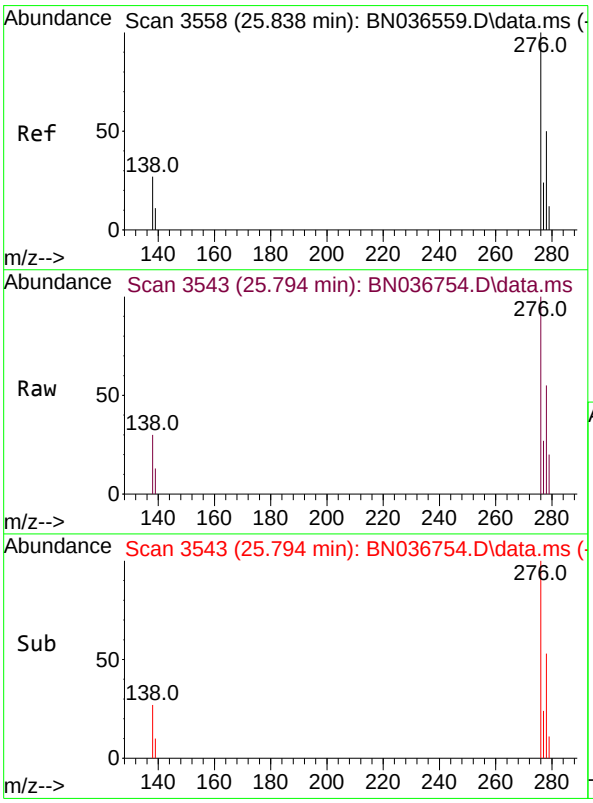
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:264 Resp: 3342

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	91.3	88.1	132.1

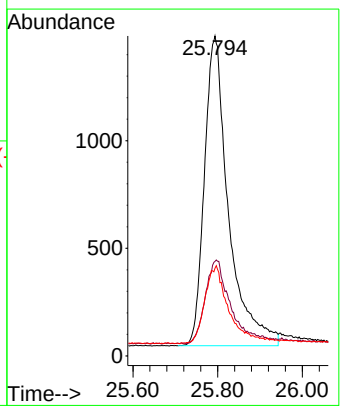


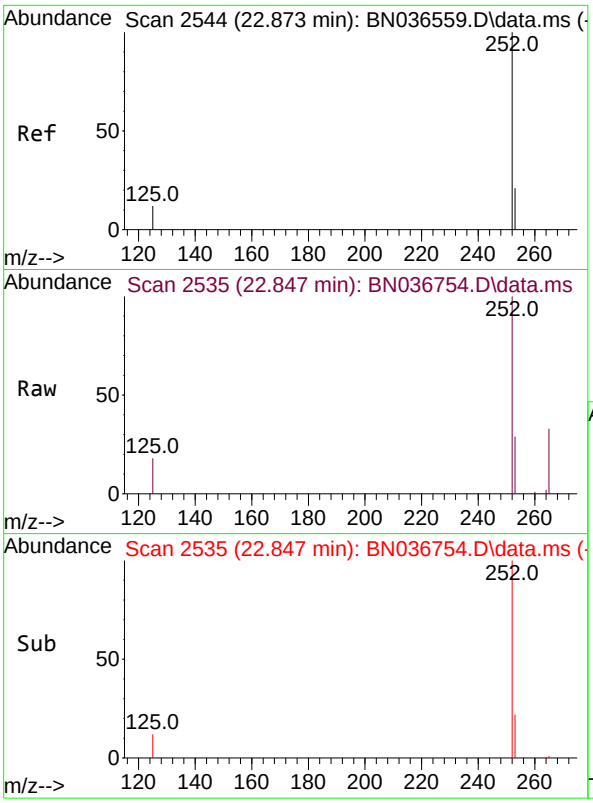


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.472 ng
RT: 25.794 min Scan# 3543
Delta R.T. -0.044 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:276 Resp: 5692

Ion	Ratio	Lower	Upper
276	100		
138	27.9	23.4	35.2
277	24.3	20.0	30.0



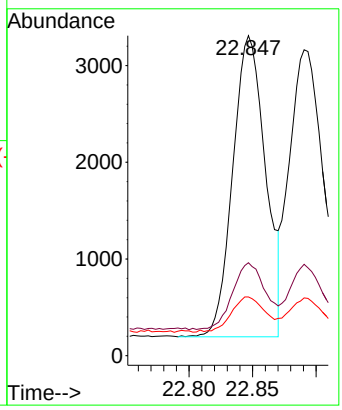


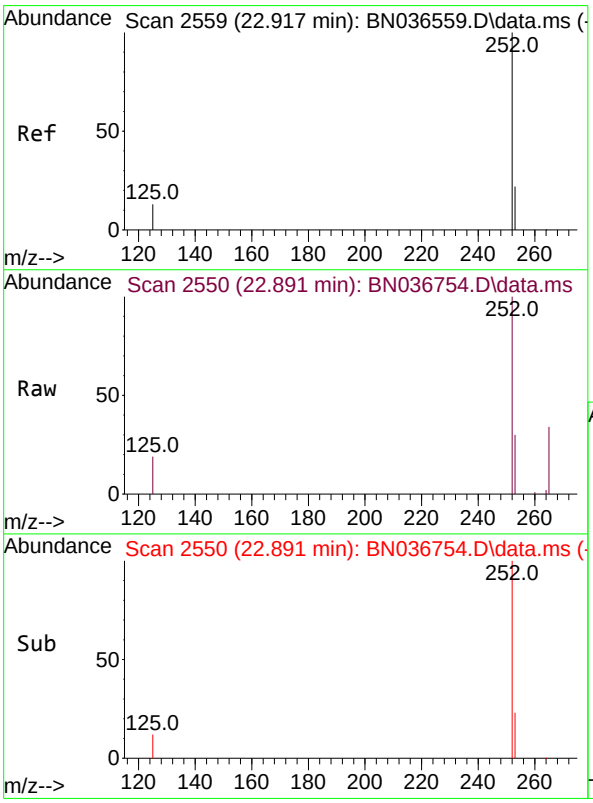
#37
Benzo(b)fluoranthene
Concen: 0.459 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:252 Resp: 5584

Ion	Ratio	Lower	Upper
252	100		
253	29.1	23.9	35.9
125	18.3	17.4	26.2

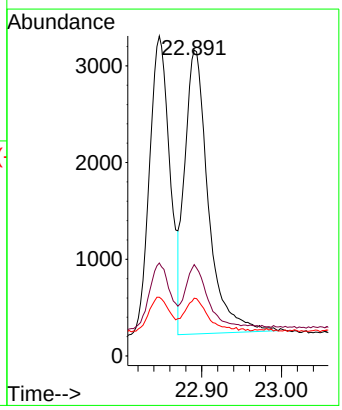


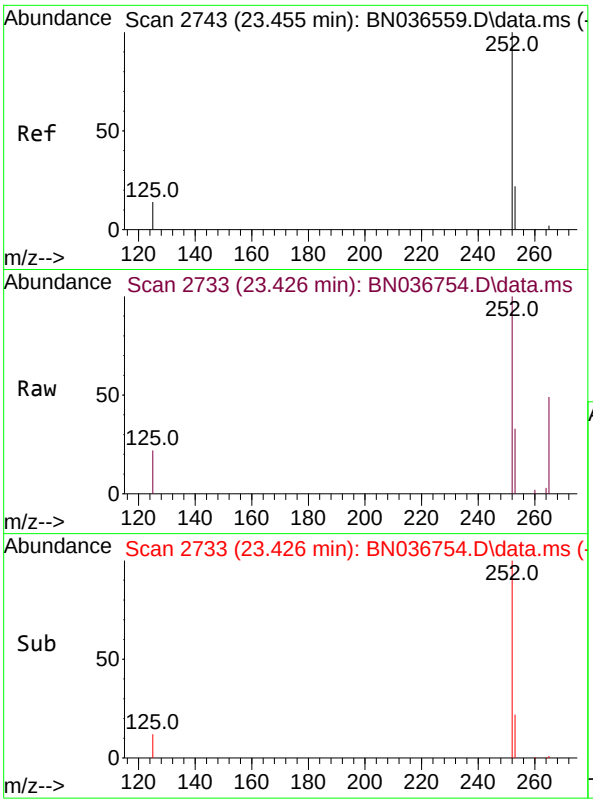


#38
Benzo(k)fluoranthene
Concen: 0.472 ng
RT: 22.891 min Scan# 2550
Delta R.T. -0.026 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:252 Resp: 6025

Ion	Ratio	Lower	Upper
252	100		
253	29.9	24.6	36.8
125	18.9	17.8	26.8



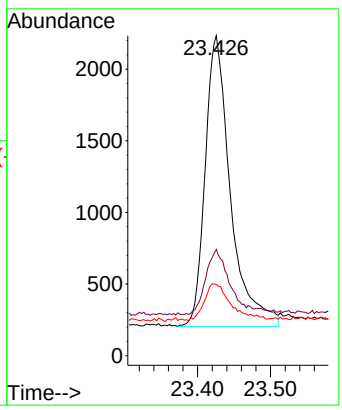


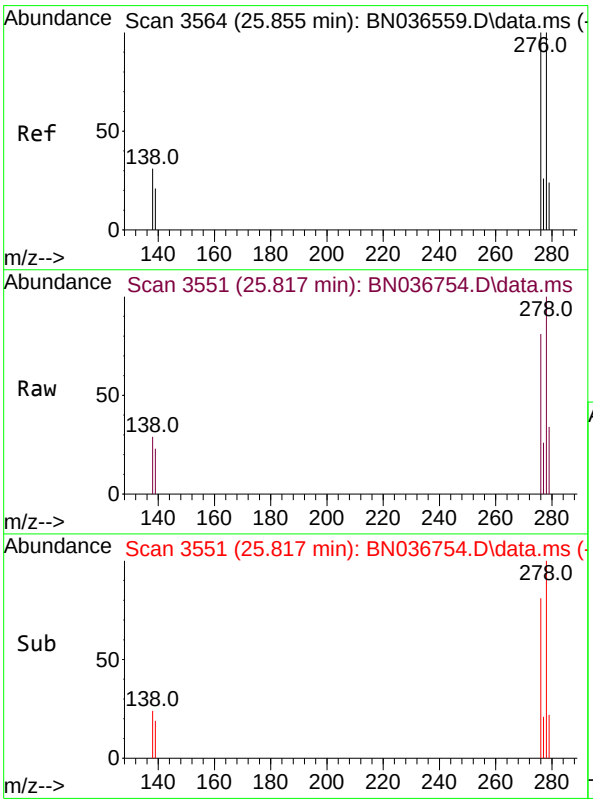
#39
Benzo(a)pyrene
Concen: 0.476 ng
RT: 23.426 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:252 Resp: 4879

Ion	Ratio	Lower	Upper
252	100		
253	33.2	27.8	41.8
125	22.3	22.7	34.1#

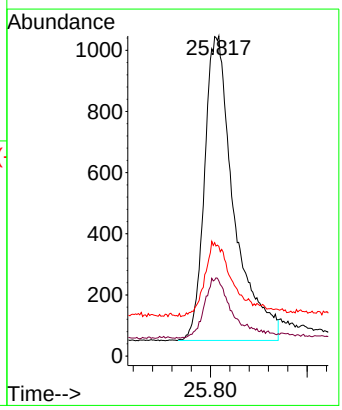


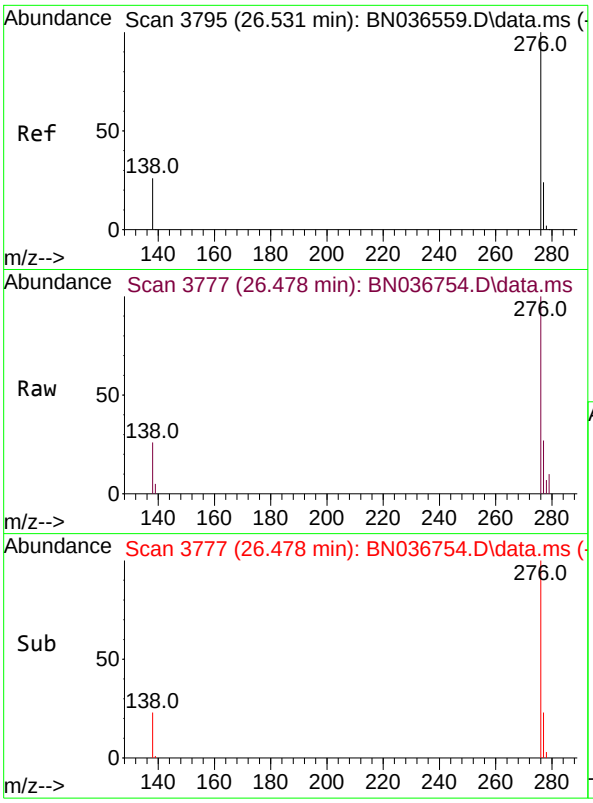


#40
Dibenzo(a,h)anthracene
Concen: 0.448 ng
RT: 25.817 min Scan# 3551
Delta R.T. -0.038 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Tgt Ion:278 Resp: 4207

Ion	Ratio	Lower	Upper
278	100		
139	23.5	20.8	31.2
279	34.3	28.8	43.2



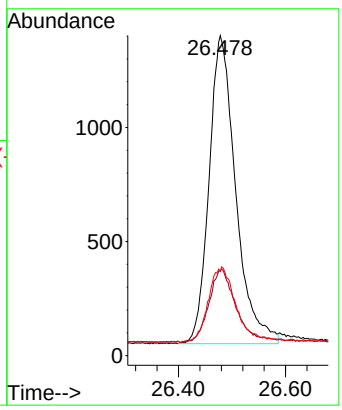


#41
Benzo(g,h,i)perylene
Concen: 0.434 ng
RT: 26.478 min Scan# 3
Delta R.T. -0.053 min
Lab File: BN036754.D
Acq: 28 Mar 2025 01:16

Instrument :
BNA_N
ClientSampleId :
PB167232BS

Tgt Ion:276 Resp: 4660

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	26.3	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 05:36:33 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

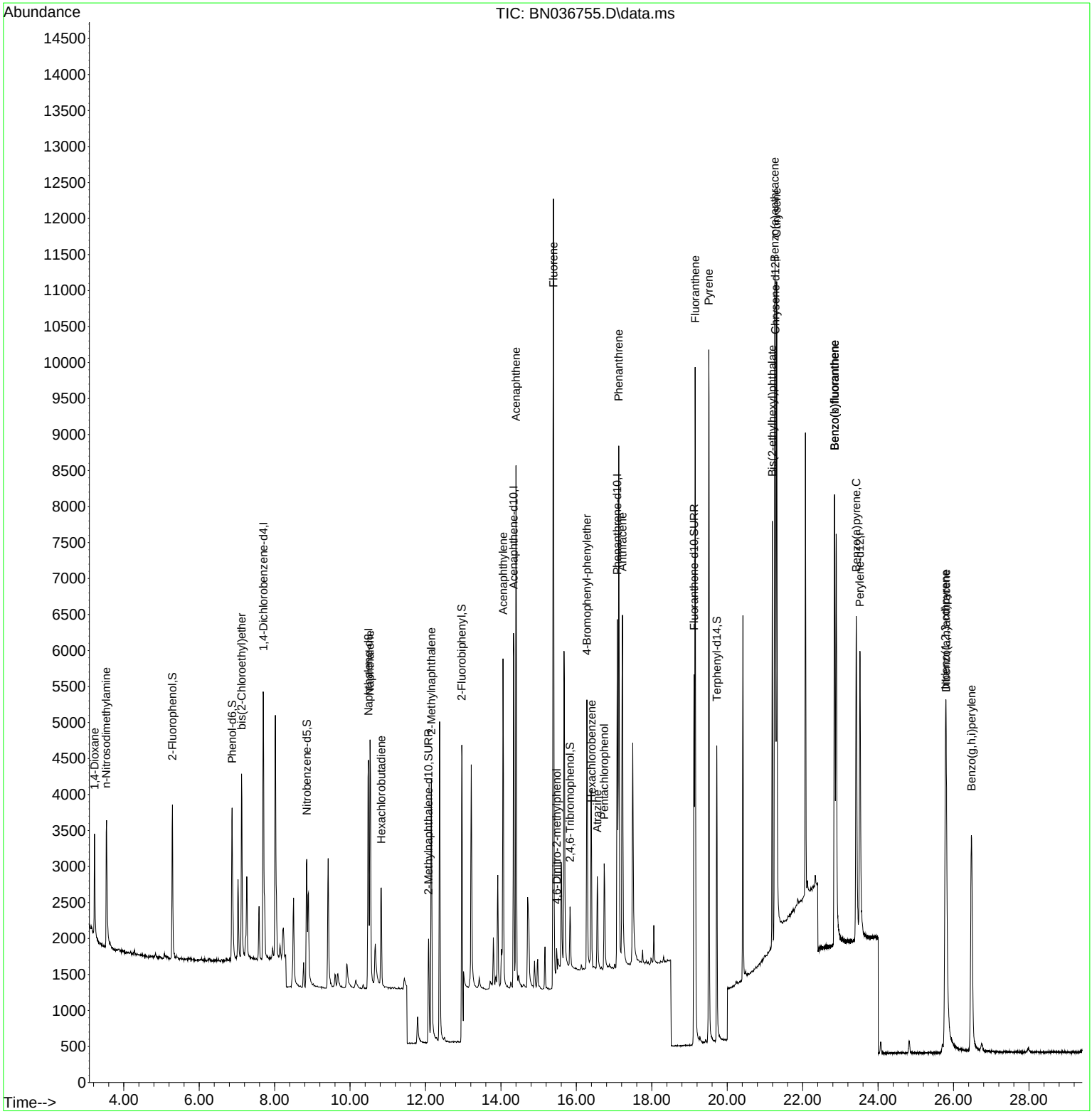
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1902	0.400	ng		-0.02
7) Naphthalene-d8	10.487	136	4724	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	3073	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	6417	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5861	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	5647	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1596	0.360	ng		-0.02
5) Phenol-d6	6.872	99	1912	0.349	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1688	0.328	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2439	0.347	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	523	0.375	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5695	0.319	ng		-0.03
27) Fluoranthene-d10	19.122	212	6435	0.391	ng		-0.02
31) Terphenyl-d14	19.722	244	4447	0.317	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	882	0.418	ng		97
3) n-Nitrosodimethylamine	3.536	42	1688	0.395	ng		93
6) bis(2-Chloroethyl)ether	7.125	93	1966	0.347	ng		99
9) Naphthalene	10.530	128	4933	0.355	ng		99
10) Hexachlorobutadiene	10.829	225	1194	0.365	ng	#	100
12) 2-Methylnaphthalene	12.157	142	3191	0.361	ng		98
16) Acenaphthylene	14.056	152	5054	0.349	ng		100
17) Acenaphthene	14.398	154	3383	0.356	ng		99
18) Fluorene	15.393	166	4678	0.364	ng		100
20) 4,6-Dinitro-2-methylph...	15.478	198	489	0.444	ng		88
21) 4-Bromophenyl-phenylether	16.280	248	1456	0.362	ng		93
22) Hexachlorobenzene	16.404	284	1743	0.359	ng		98
23) Atrazine	16.553	200	1231	0.382	ng		96
24) Pentachlorophenol	16.739	266	837	0.378	ng		96
25) Phenanthrene	17.124	178	7451	0.387	ng		100
26) Anthracene	17.223	178	6503	0.374	ng		99
28) Fluoranthene	19.150	202	8702	0.402	ng		99
30) Pyrene	19.513	202	9138	0.319	ng		100
32) Benzo(a)anthracene	21.259	228	7209	0.354	ng		99
33) Chrysene	21.313	228	8619	0.387	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5036	0.347	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.785	276	7554	0.371	ng		98
37) Benzo(b)fluoranthene	22.847	252	7851	0.382	ng		97
38) Benzo(k)fluoranthene	22.847	252	7851	0.364	ng		95
39) Benzo(a)pyrene	23.420	252	6760	0.391	ng		95
40) Dibenzo(a,h)anthracene	25.806	278	5864	0.370	ng		90
41) Benzo(g,h,i)perylene	26.475	276	6596	0.363	ng		96

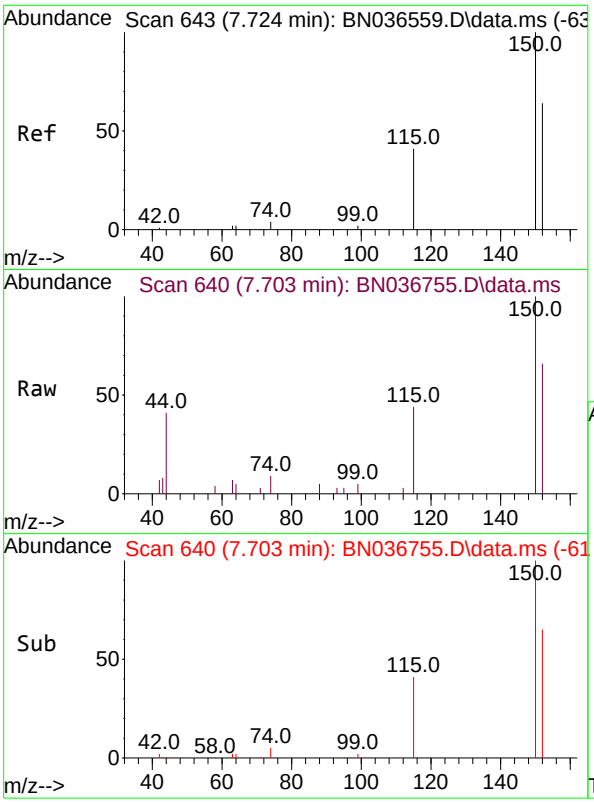
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036755.D
Acq On : 28 Mar 2025 01:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 05:36:33 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



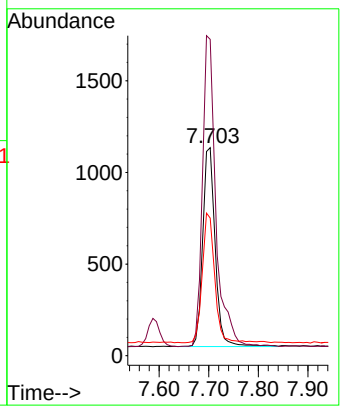


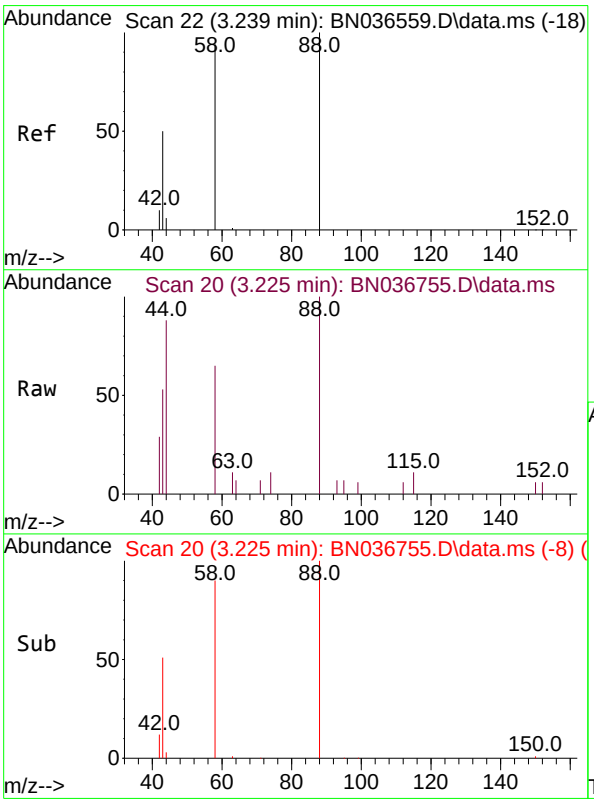
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1902

Ion	Ratio	Lower	Upper
152	100		
150	152.1	123.7	185.5
115	66.2	54.3	81.5

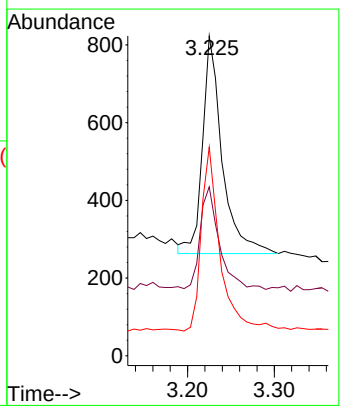


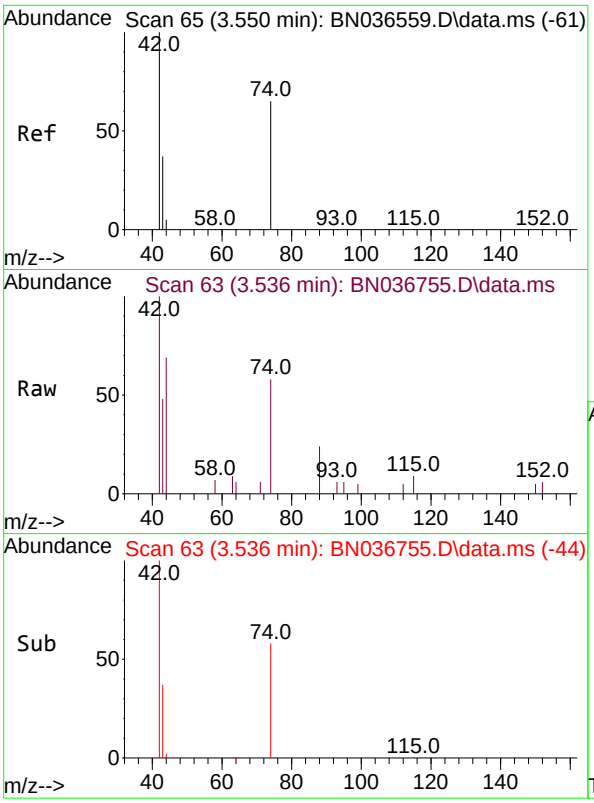


#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 88 Resp: 882

Ion	Ratio	Lower	Upper
88	100		
43	45.9	37.8	56.8
58	81.1	67.4	101.2



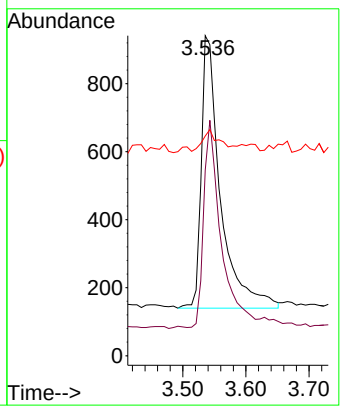


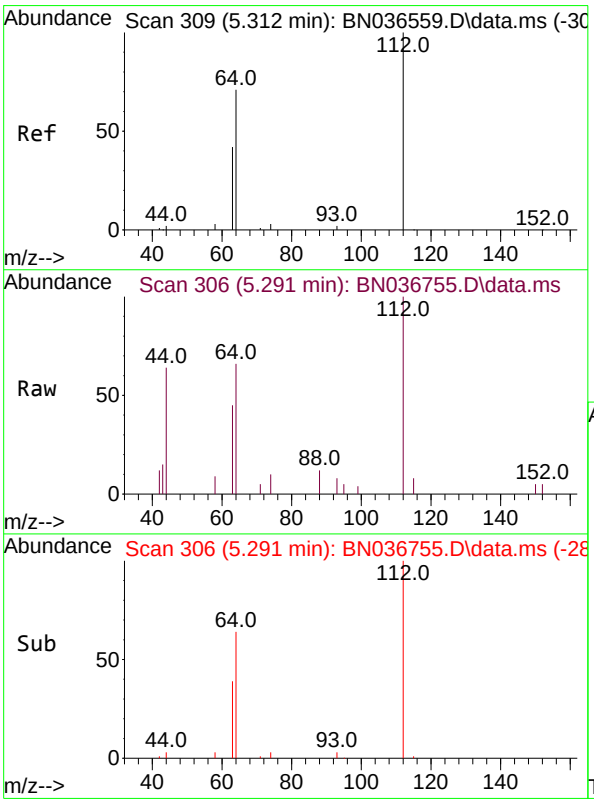
#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1688

Ion	Ratio	Lower	Upper
42	100		
74	68.9	60.6	90.8
44	7.1	6.3	9.5

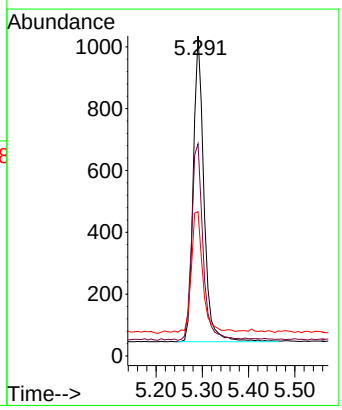


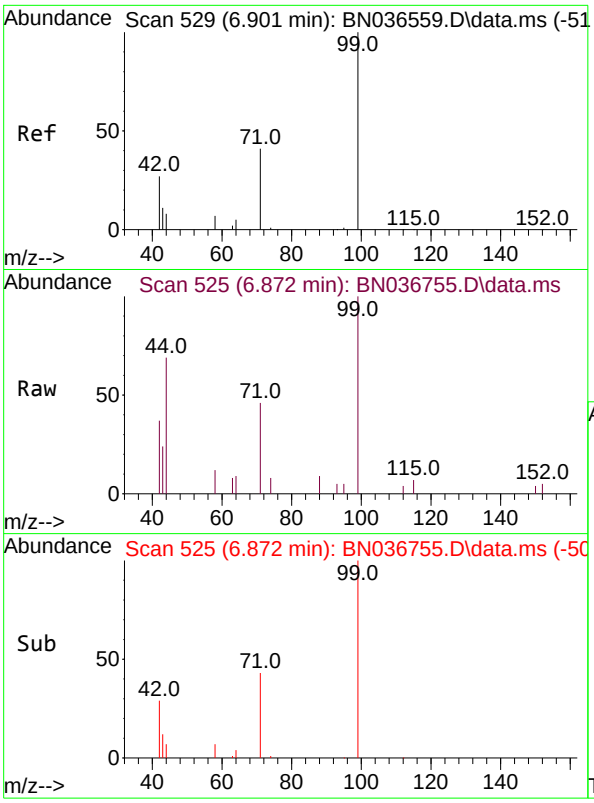


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:112 Resp: 1596

Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.1	79.7
63	41.4	31.8	47.8



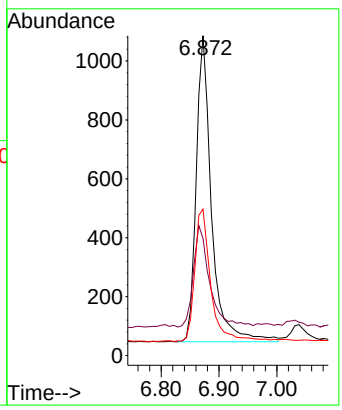


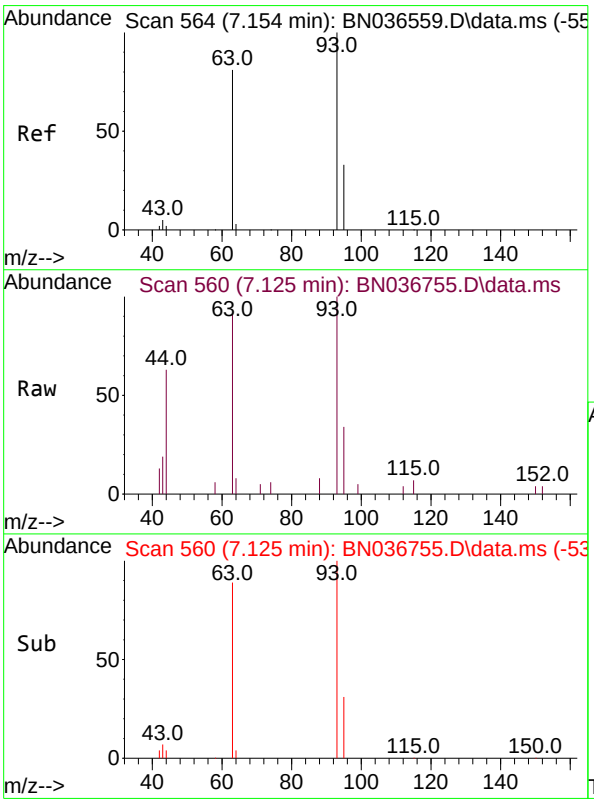
#5
Phenol-d6
Concen: 0.349 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1912

Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	45.3	34.1	51.1

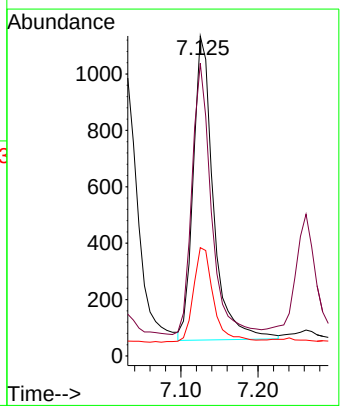


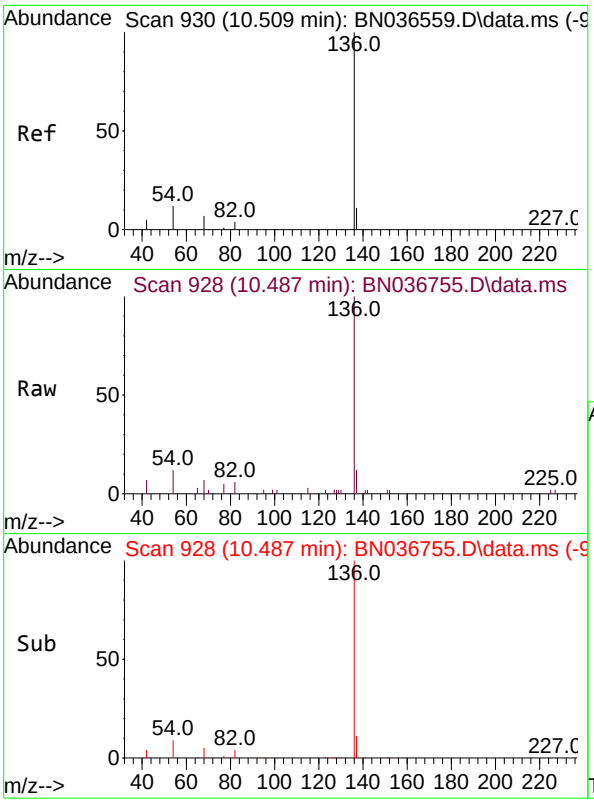


#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 93 Resp: 1966

Ion	Ratio	Lower	Upper
93	100		
63	85.6	67.7	101.5
95	31.0	25.6	38.4



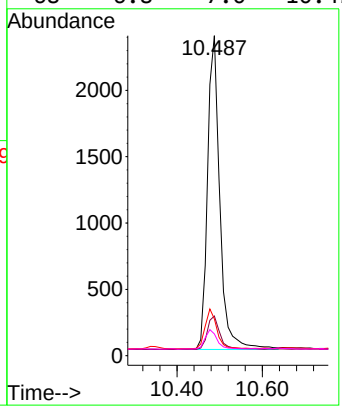


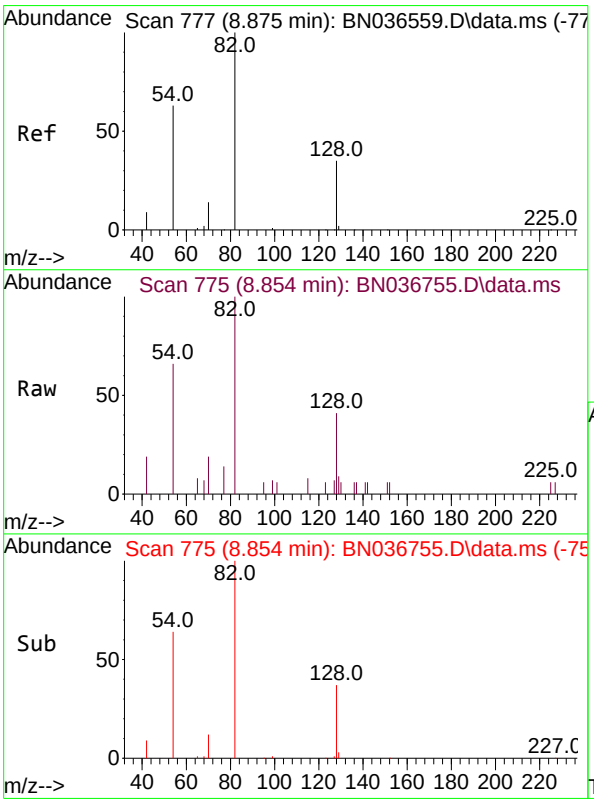
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4724

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.5	11.5	17.3
68	6.8	7.0	10.4#

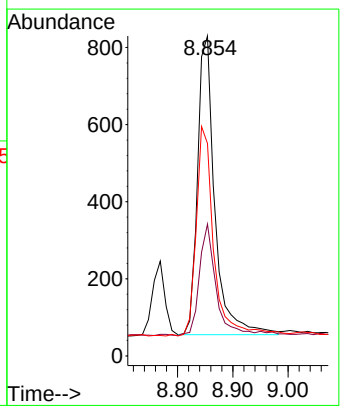


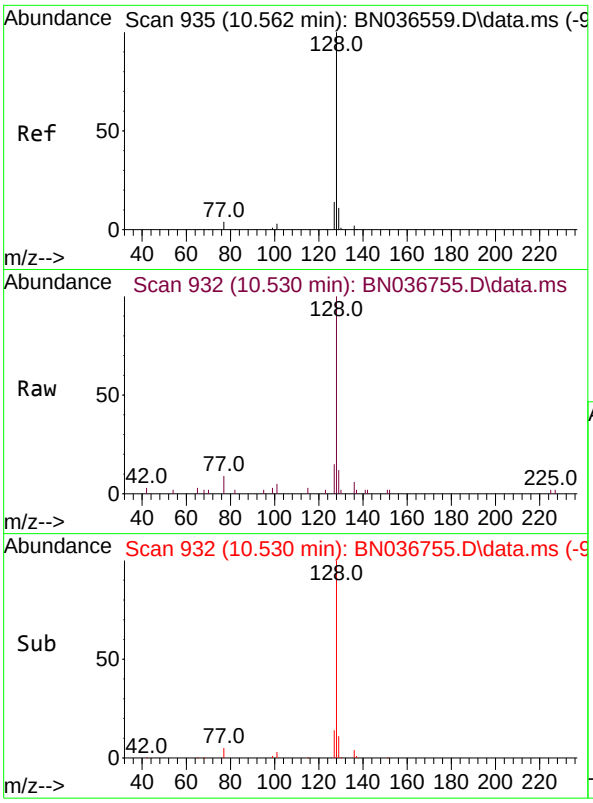


#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion: 82 Resp: 1688

Ion	Ratio	Lower	Upper
82	100		
128	41.2	30.6	45.8
54	66.4	52.2	78.4



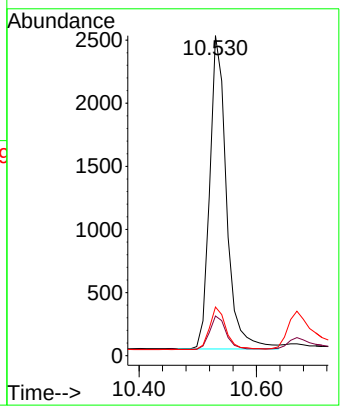


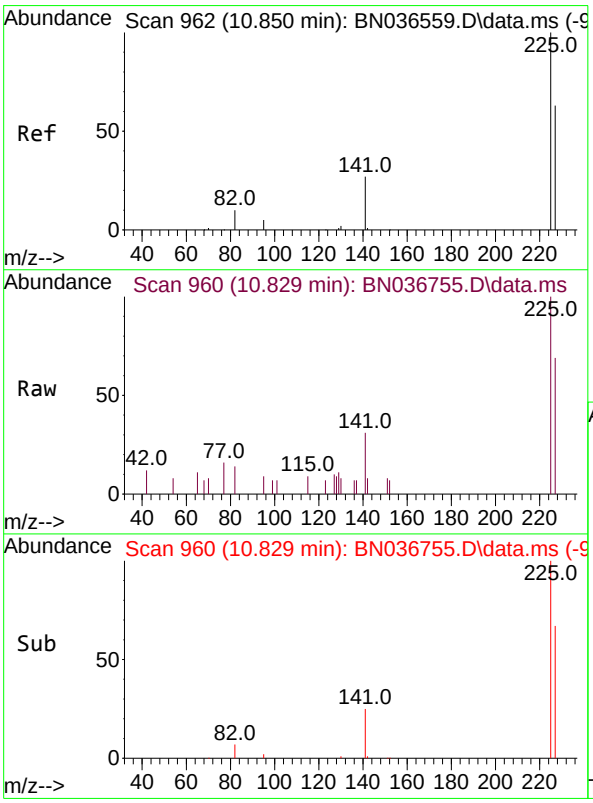
#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4933

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.2	11.8	17.8

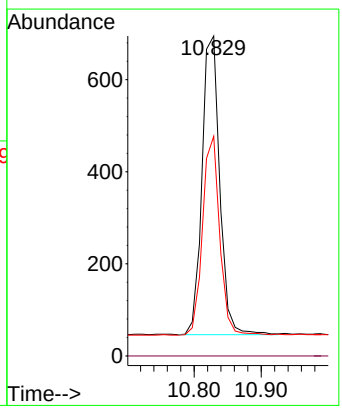


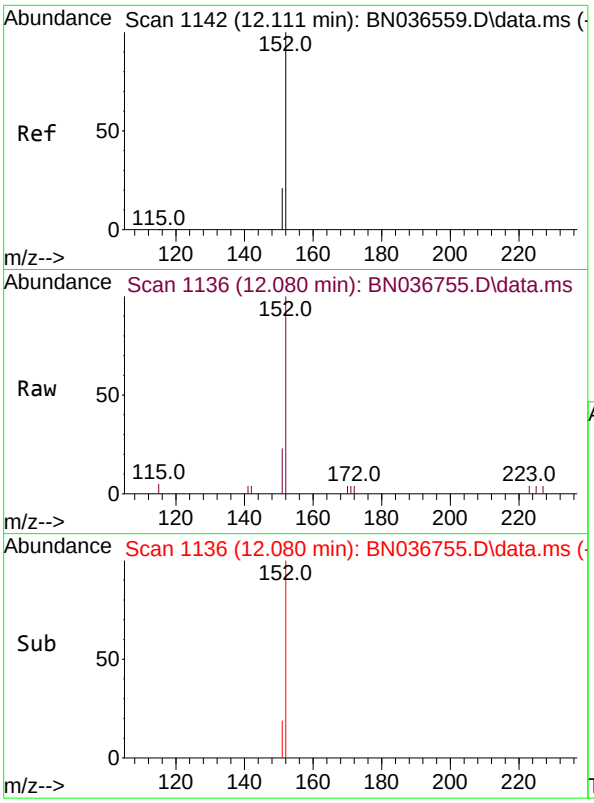


#10
Hexachlorobutadiene
Concen: 0.365 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:225 Resp: 1194

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	51.8	77.8



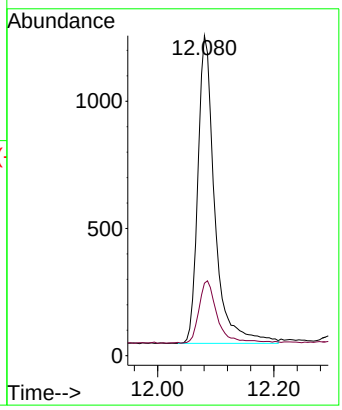


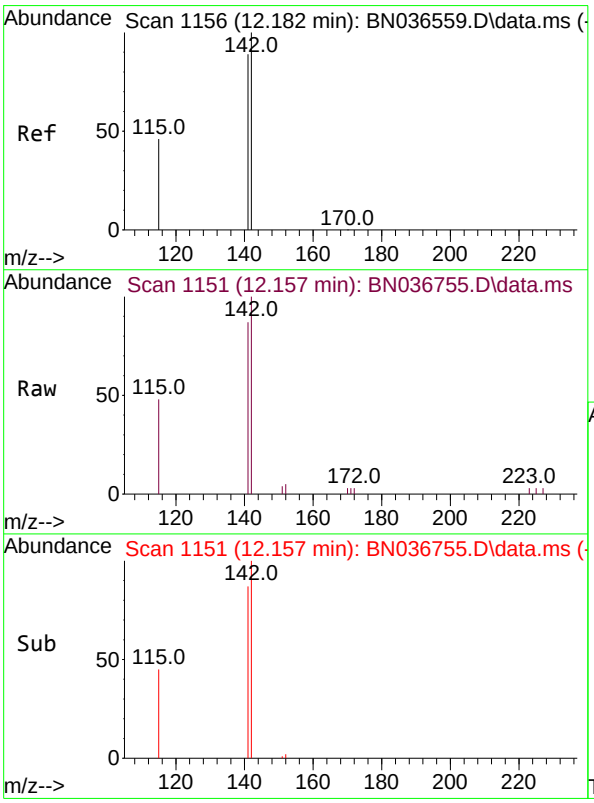
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2439

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6

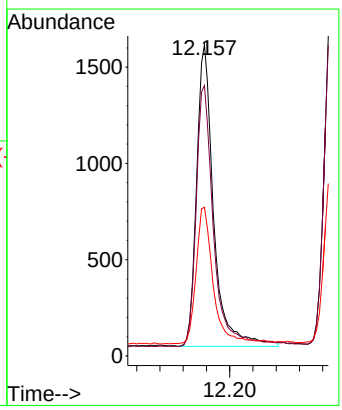


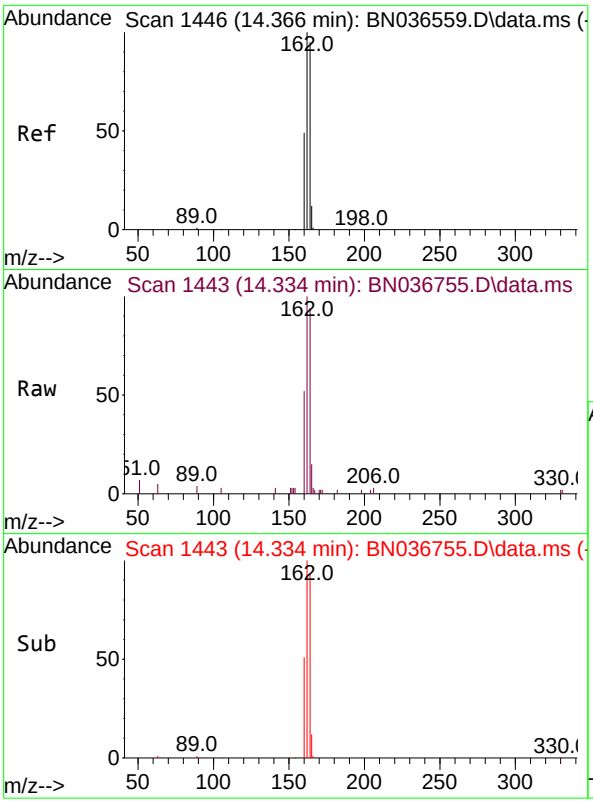


#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:142 Resp: 3191

Ion	Ratio	Lower	Upper
142	100		
141	86.8	71.7	107.5
115	47.8	38.3	57.5



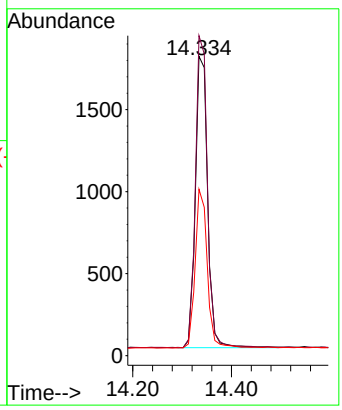


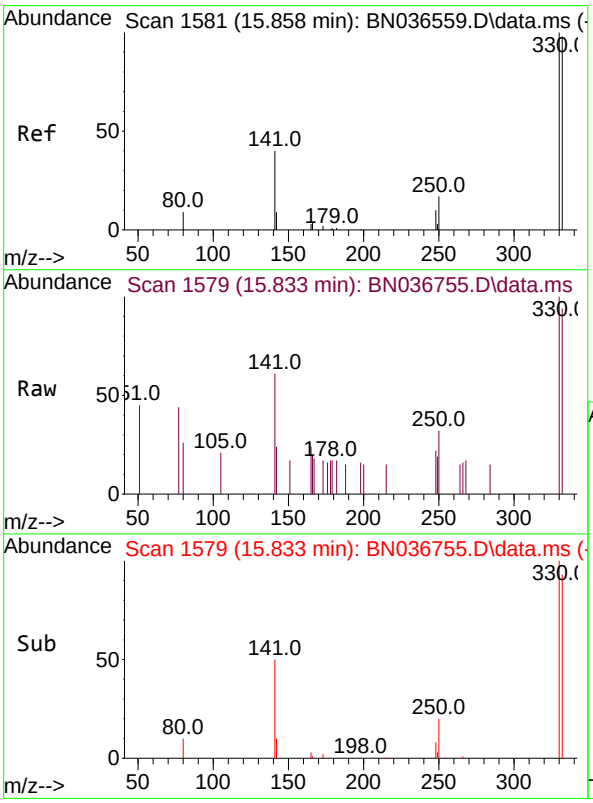
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3073

Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.2	126.2
160	55.6	42.2	63.2

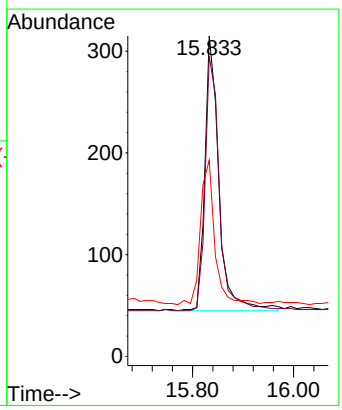


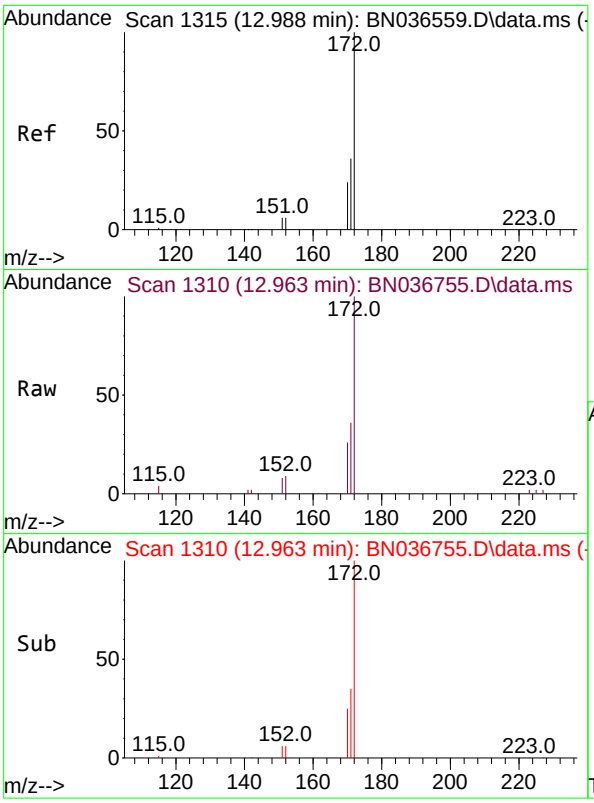


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:330 Resp: 523

Ion	Ratio	Lower	Upper
330	100		
332	93.7	75.2	112.8
141	53.5	43.4	65.2



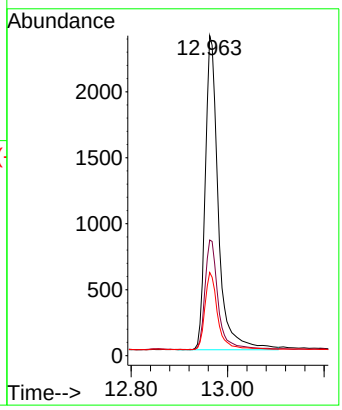


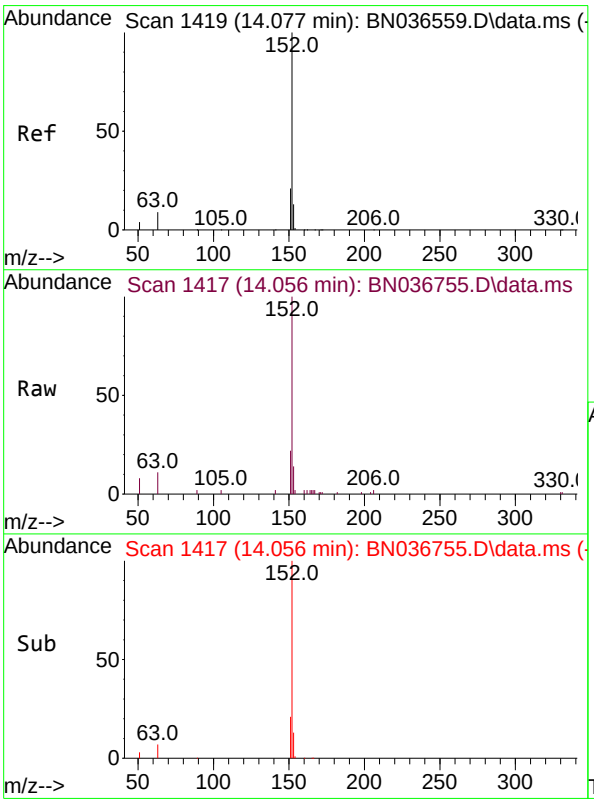
#15
2-Fluorobiphenyl
Concen: 0.319 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5695

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	26.0	20.2	30.4

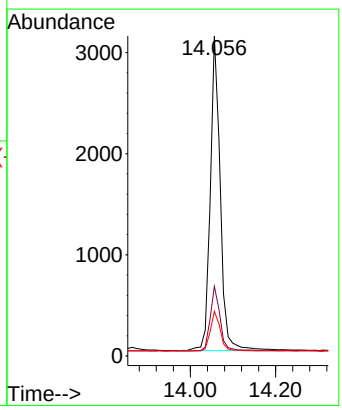


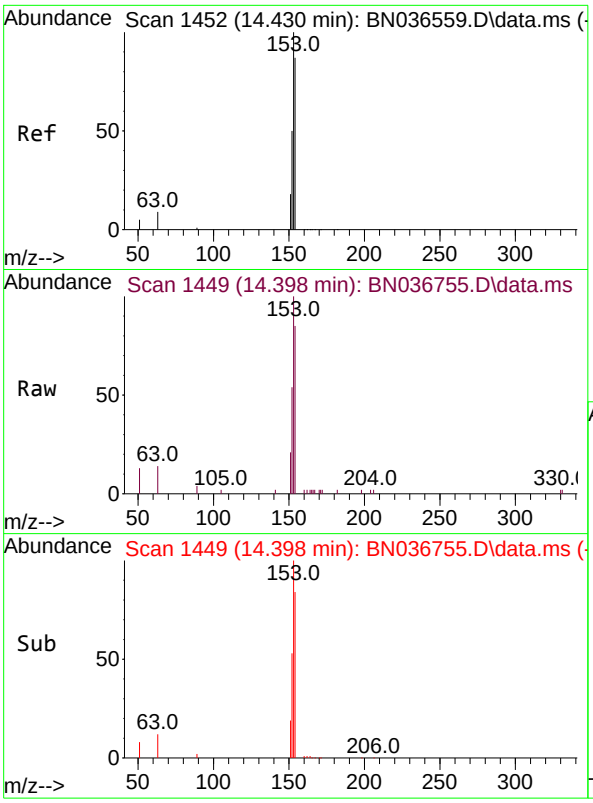


#16
Acenaphthylene
Concen: 0.349 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:152 Resp: 5054

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



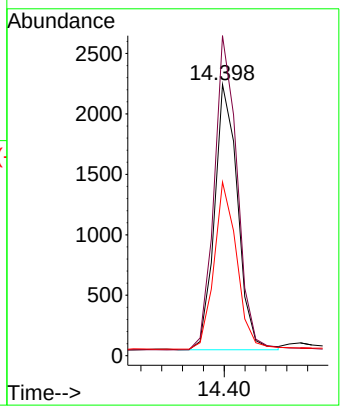


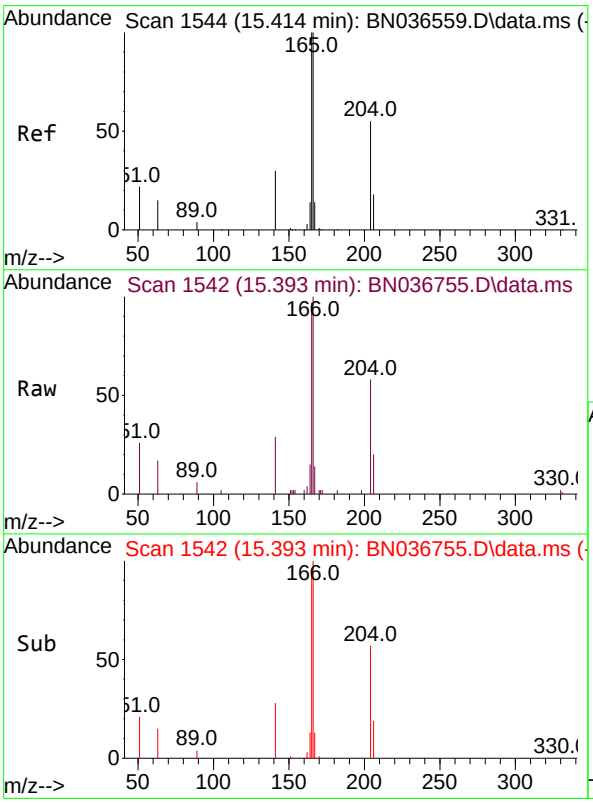
#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3383

Ion	Ratio	Lower	Upper
154	100		
153	119.0	94.1	141.1
152	62.7	49.8	74.6

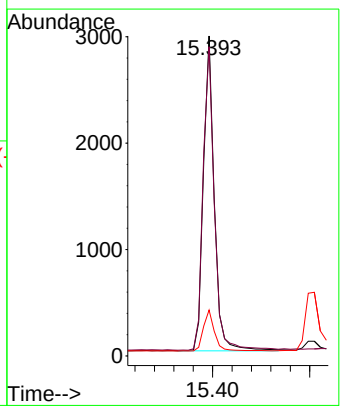


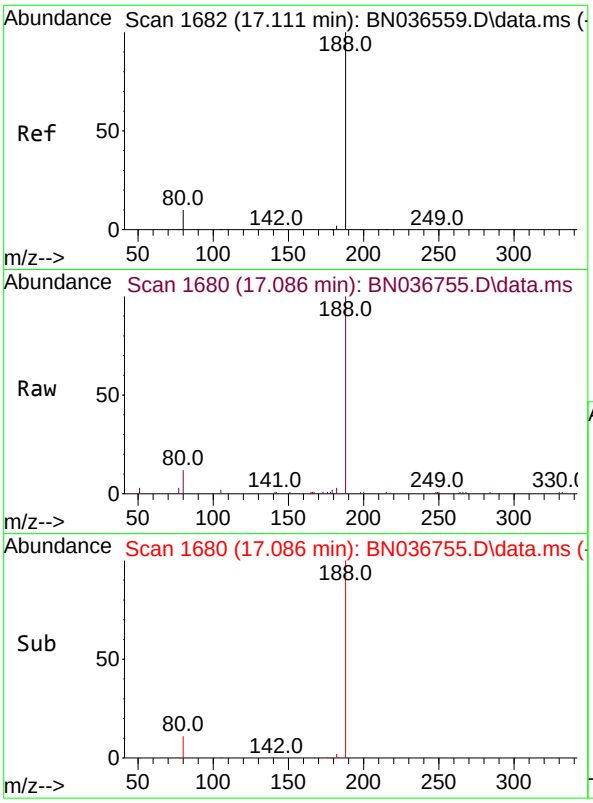


#18
Fluorene
Concen: 0.364 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:166 Resp: 4678

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.8
167	13.0	10.6	15.8



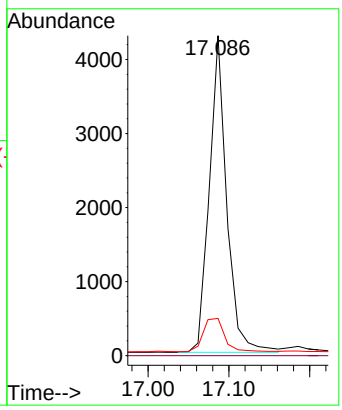


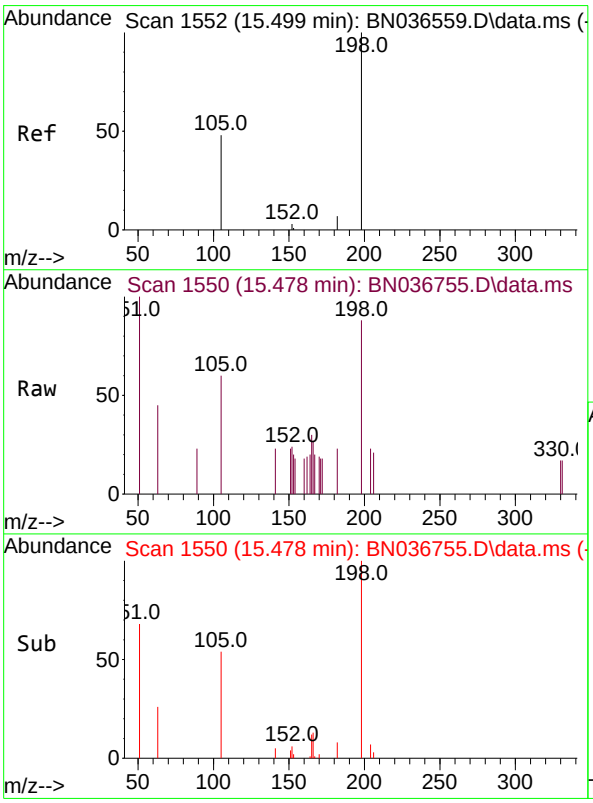
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 6417

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	8.8	13.2

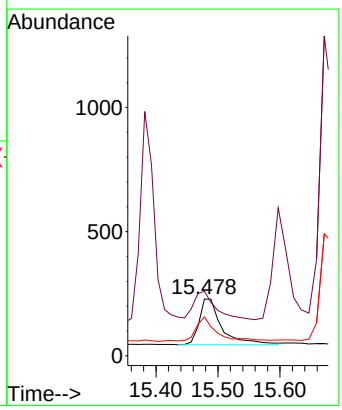


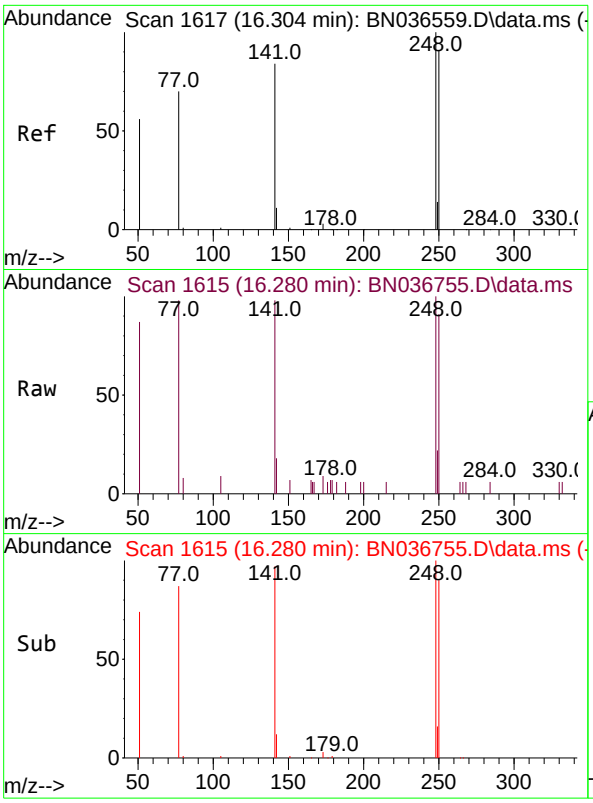


#20
4,6-Dinitro-2-methylphenol
Concen: 0.444 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:198 Resp: 489

Ion	Ratio	Lower	Upper
198	100		
51	113.5	107.9	161.9
105	68.6	56.2	84.2



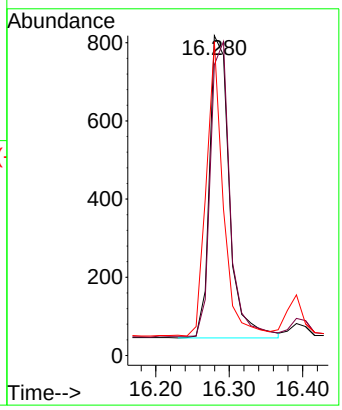


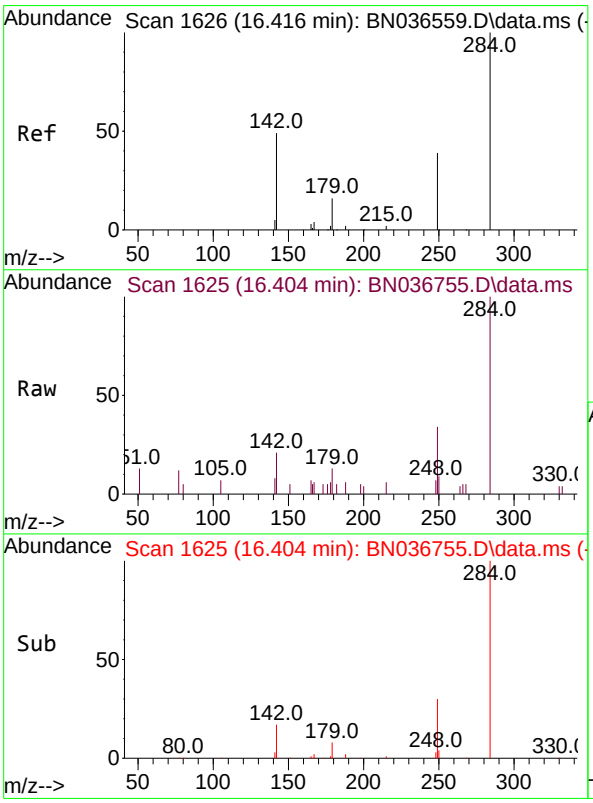
#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1456

Ion	Ratio	Lower	Upper
248	100		
250	91.0	73.0	109.6
141	98.2	68.6	103.0

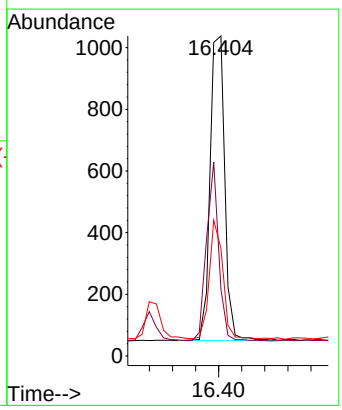


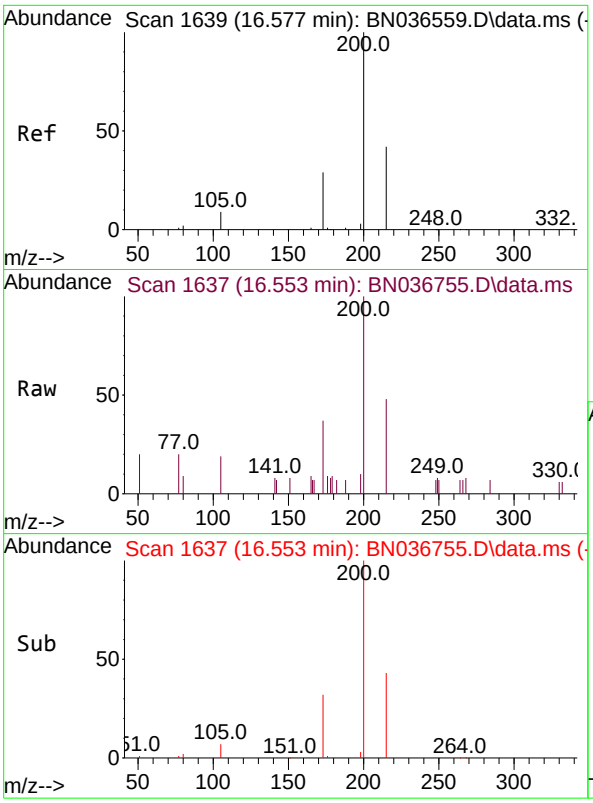


#22
Hexachlorobenzene
Concen: 0.359 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:284 Resp: 1743

Ion	Ratio	Lower	Upper
284	100		
142	48.7	37.0	55.4
249	35.6	28.1	42.1



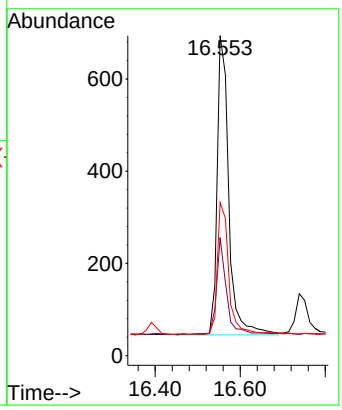


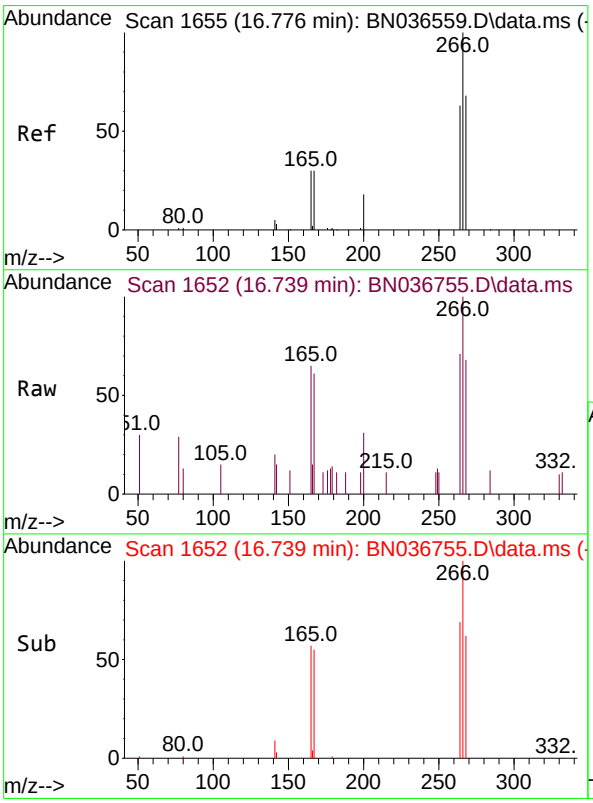
#23
Atrazine
Concen: 0.382 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1231

Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.8	36.8	55.2

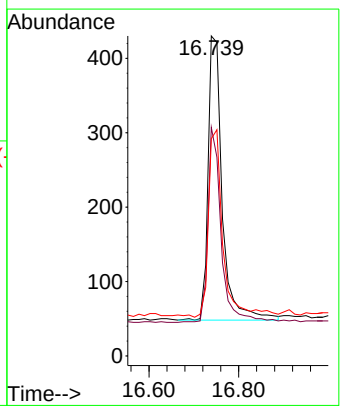


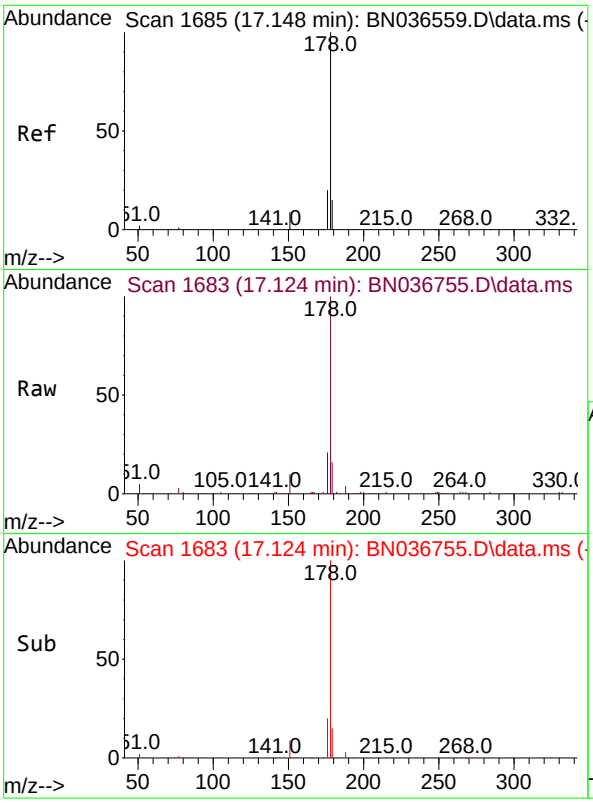


#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:266 Resp: 837

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.6	74.4
268	67.6	50.9	76.3



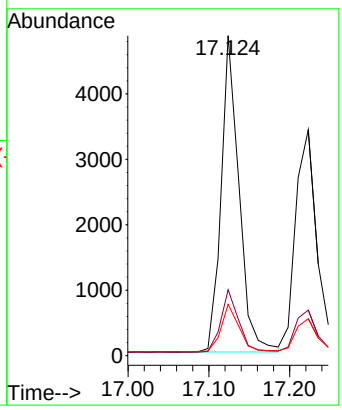


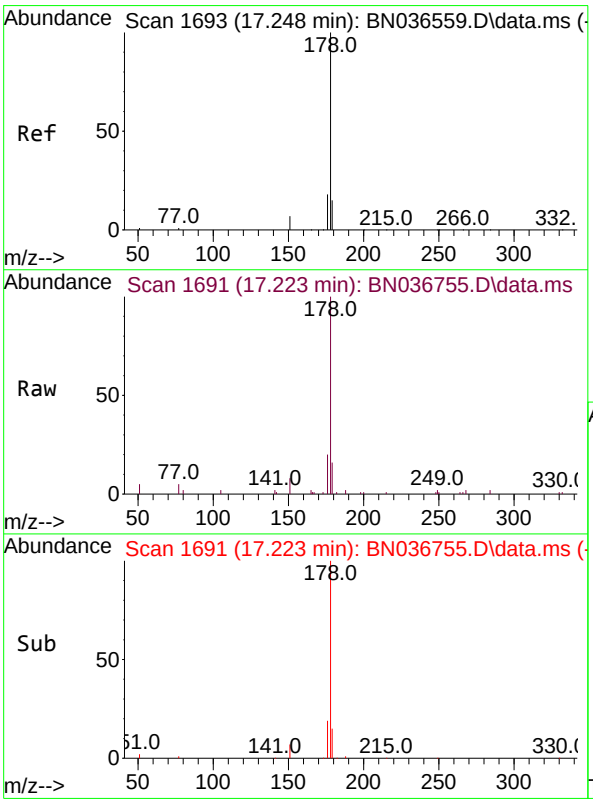
#25
Phenanthrene
Concen: 0.387 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 7451

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.4	12.2	18.4

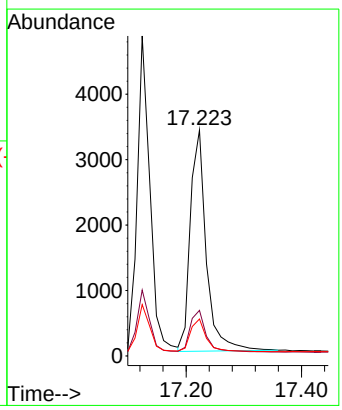


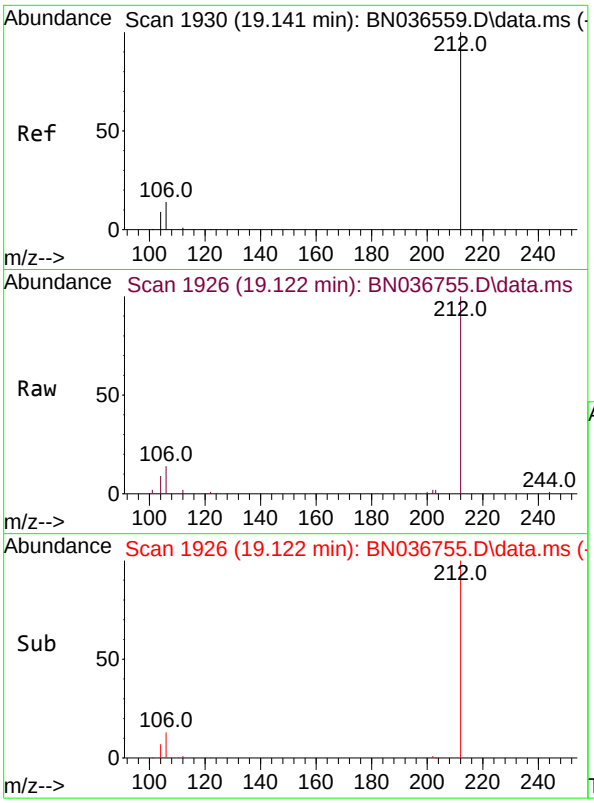


#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:178 Resp: 6503

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.2	12.6	18.8



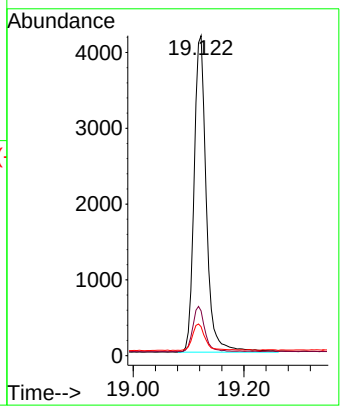


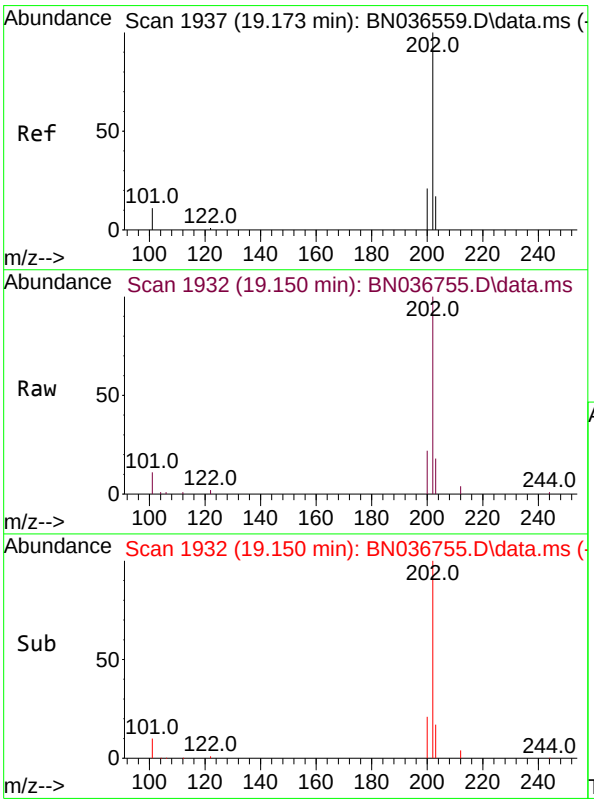
#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 6435

Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.8	17.6
104	8.9	7.3	10.9

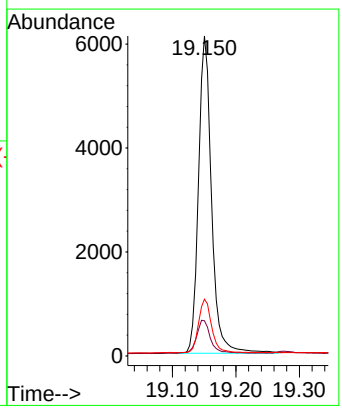


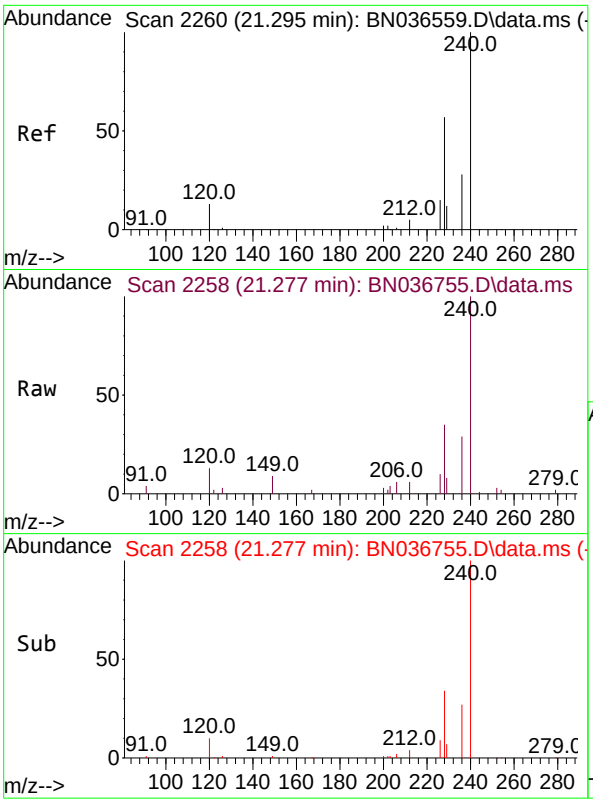


#28
Fluoranthene
Concen: 0.402 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:202 Resp: 8702

Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	17.0	13.5	20.3



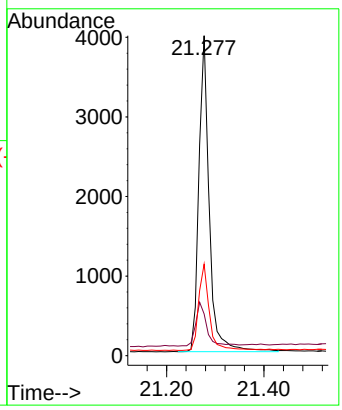


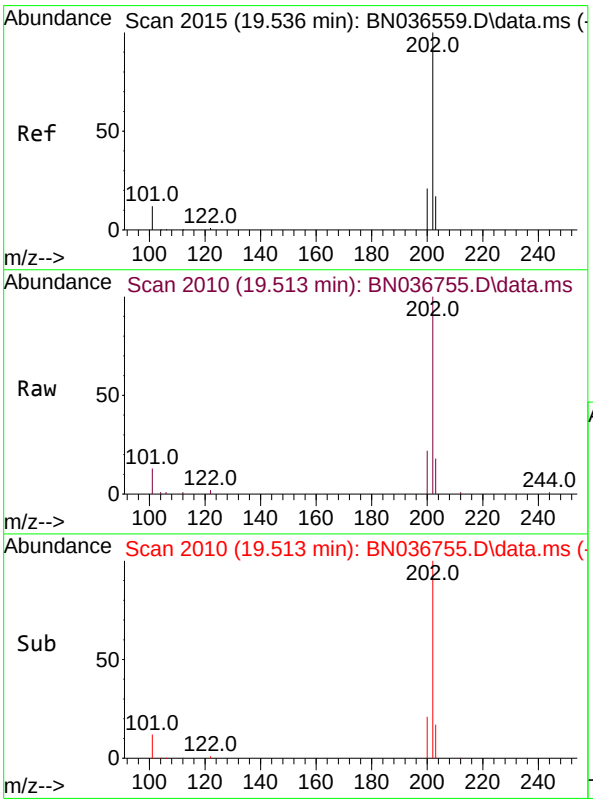
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 5861

Ion	Ratio	Lower	Upper
240	100		
120	13.0	14.6	22.0#
236	28.6	24.1	36.1

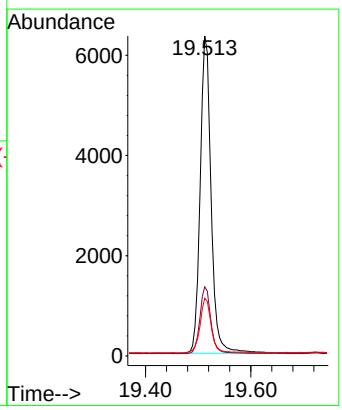


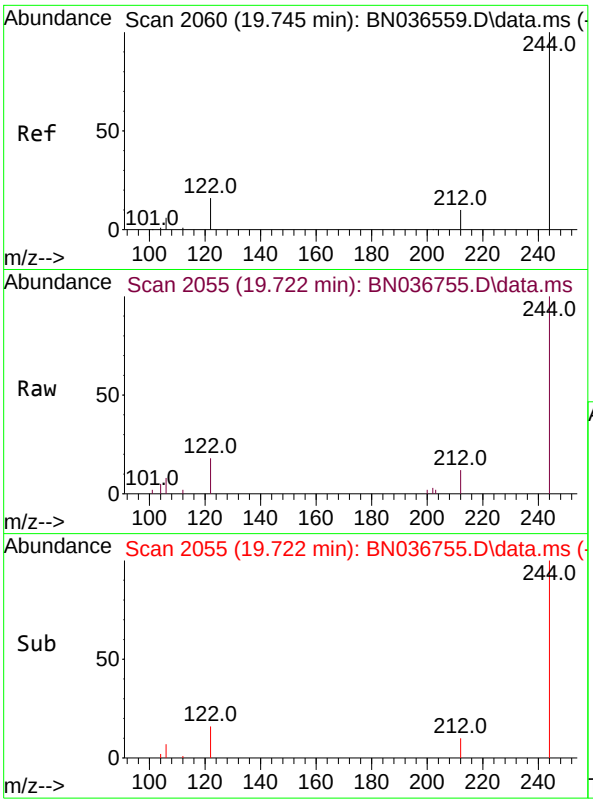


#30
Pyrene
Concen: 0.319 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:202 Resp: 9138

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.8	14.1	21.1



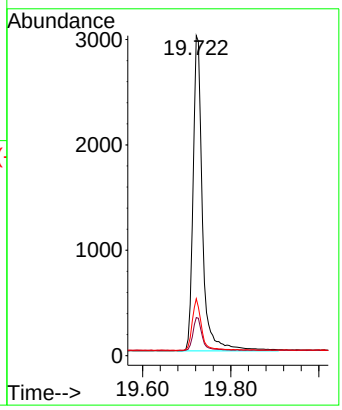


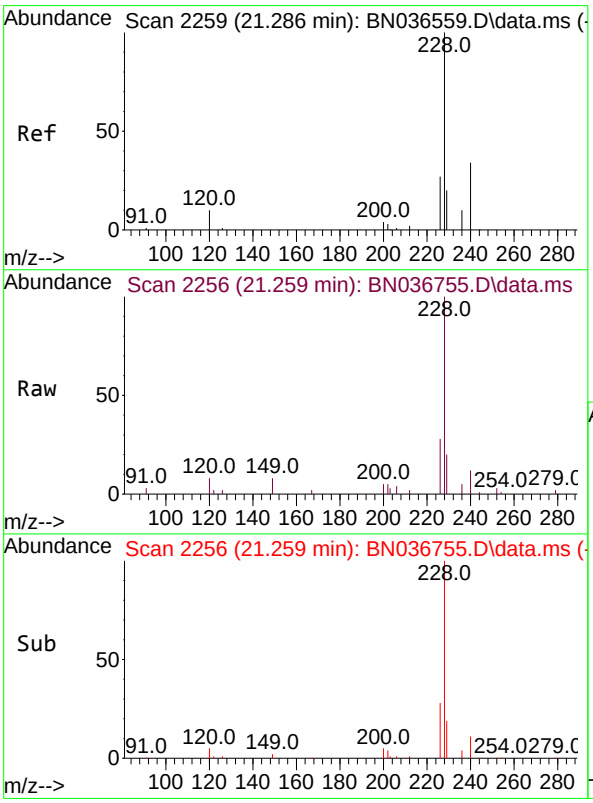
#31
Terphenyl-d14
Concen: 0.317 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 4447

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	17.8	13.9	20.9

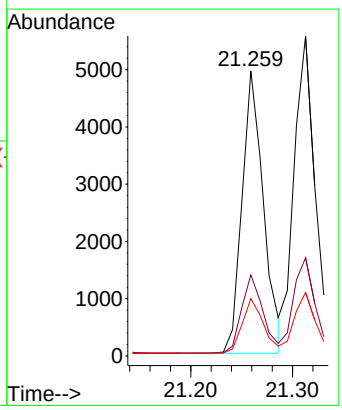


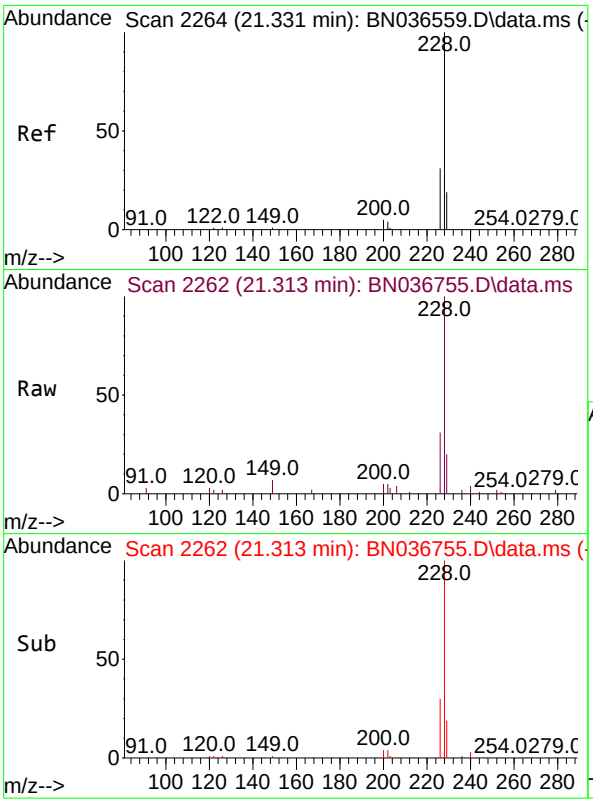


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:228 Resp: 7209

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.1	16.6	25.0



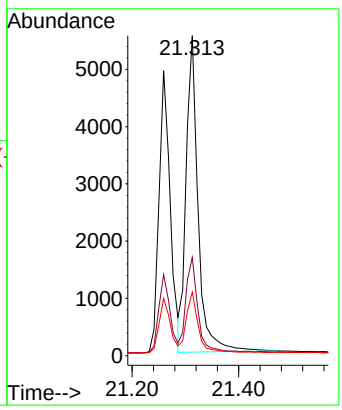


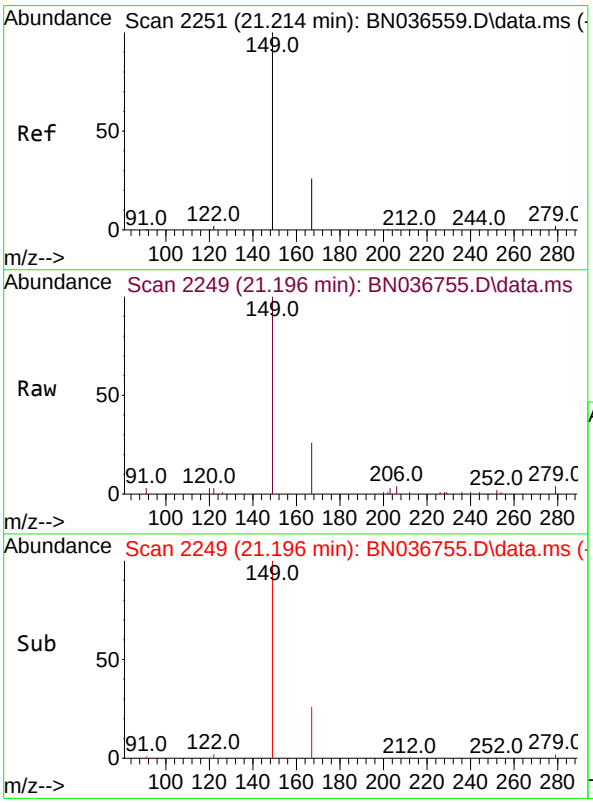
#33
Chrysene
Concen: 0.387 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 8619

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	19.8	15.8	23.8

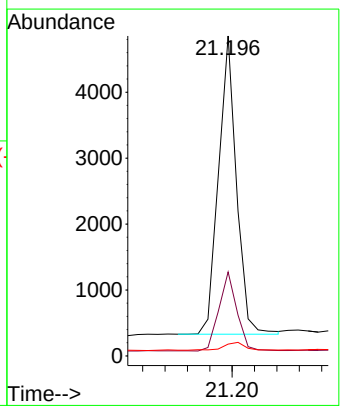


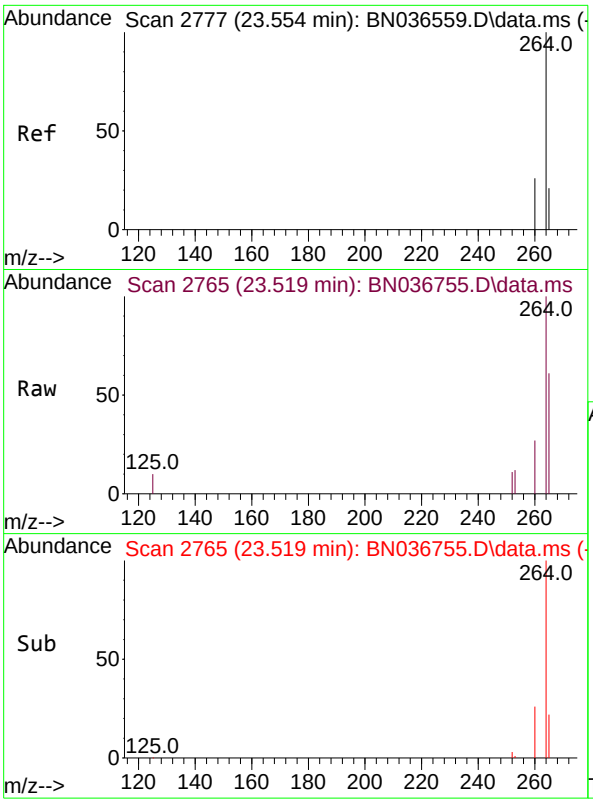


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.347 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:149 Resp: 5036

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	2.9	3.6	5.4#



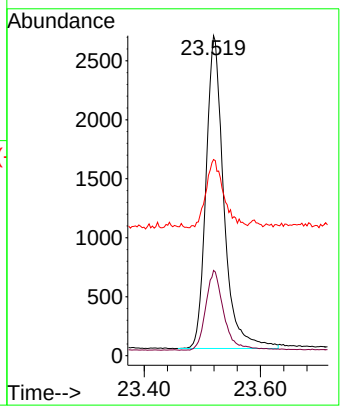


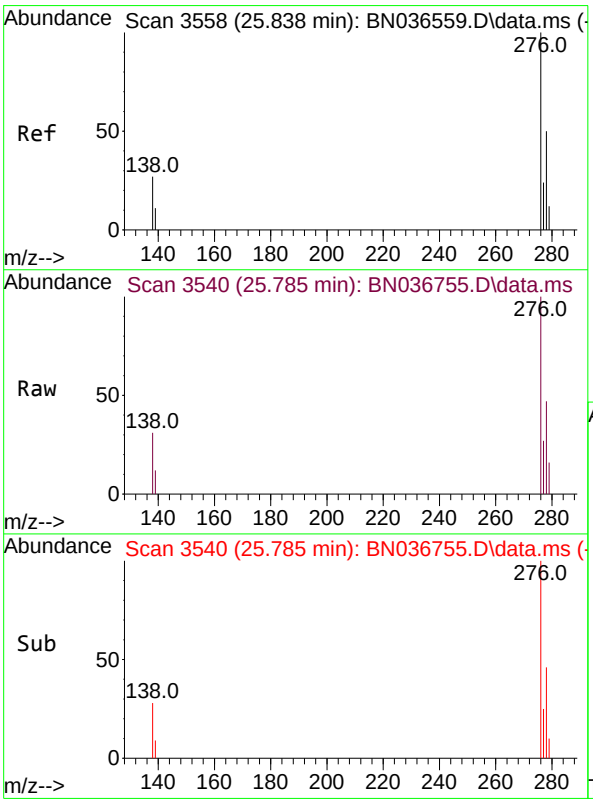
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 5647

Ion	Ratio	Lower	Upper
264	100		
260	26.7	22.6	33.8
265	61.3	88.1	132.1#

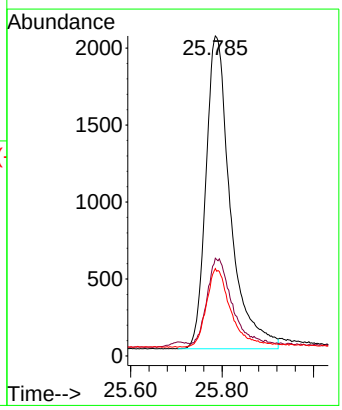


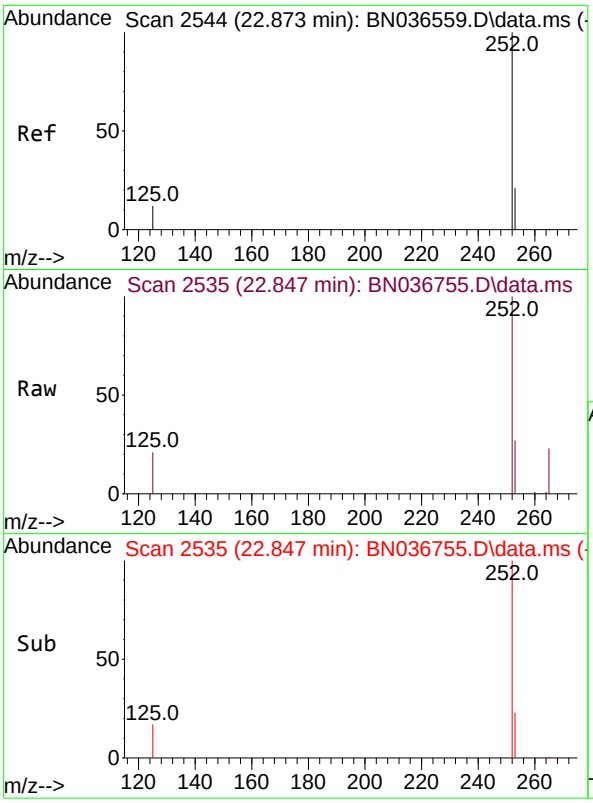


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.371 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.052 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:276 Resp: 7554

Ion	Ratio	Lower	Upper
276	100		
138	27.5	23.4	35.2
277	24.8	20.0	30.0



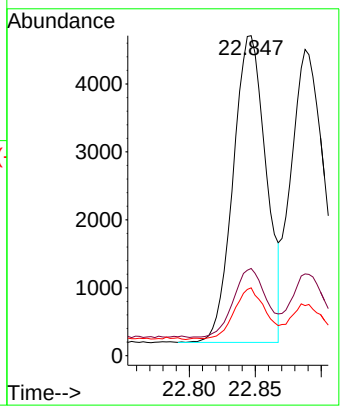


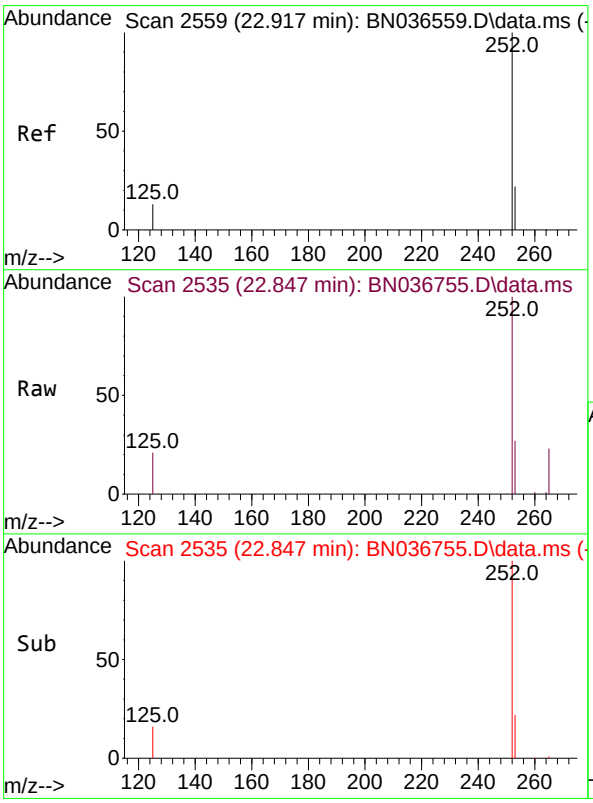
#37
Benzo(b)fluoranthene
Concen: 0.382 ng
RT: 22.847 min Scan# 2
Delta R.T. -0.026 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 7851

Ion	Ratio	Lower	Upper
252	100		
253	27.3	23.9	35.9
125	21.2	17.4	26.2

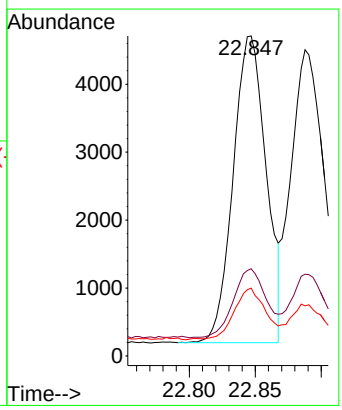


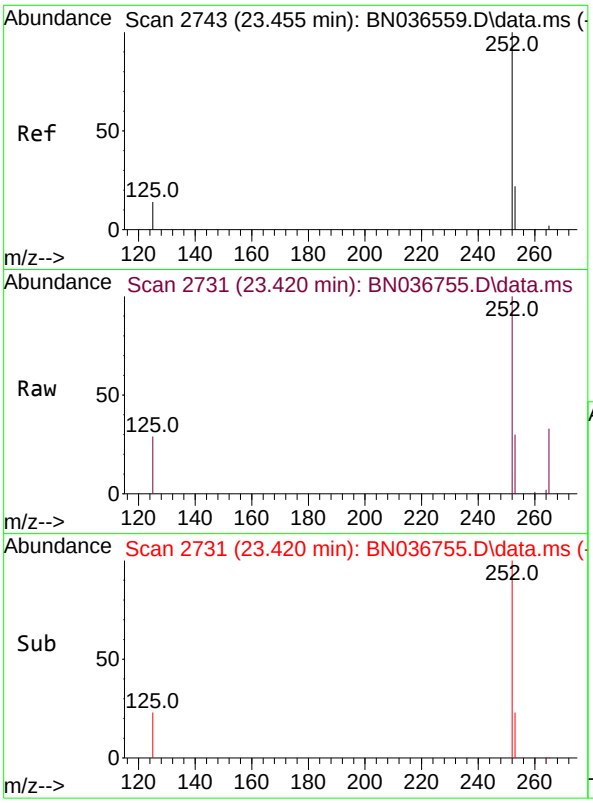


#38
Benzo(k)fluoranthene
Concen: 0.364 ng
RT: 22.847 min Scan# 2535
Delta R.T. -0.070 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:252 Resp: 7851

Ion	Ratio	Lower	Upper
252	100		
253	27.3	24.6	36.8
125	21.2	17.8	26.8



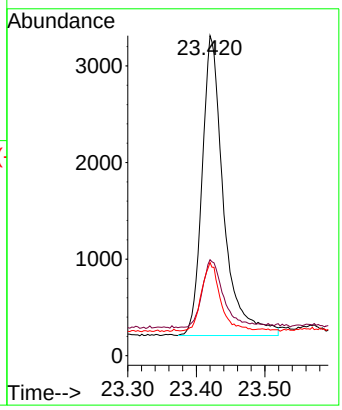


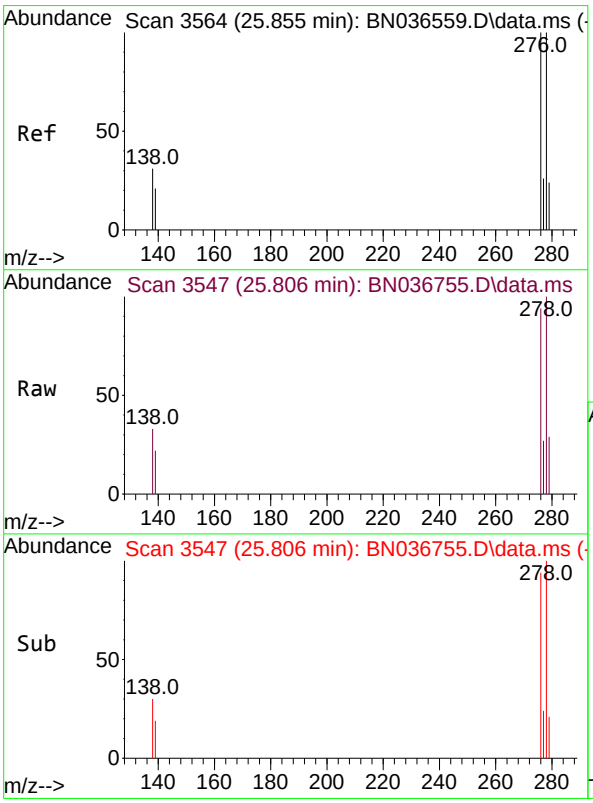
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6760

Ion	Ratio	Lower	Upper
252	100		
253	30.0	27.8	41.8
125	29.1	22.7	34.1

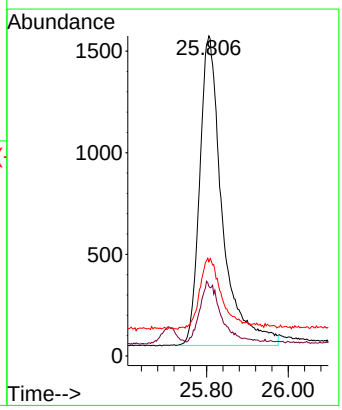


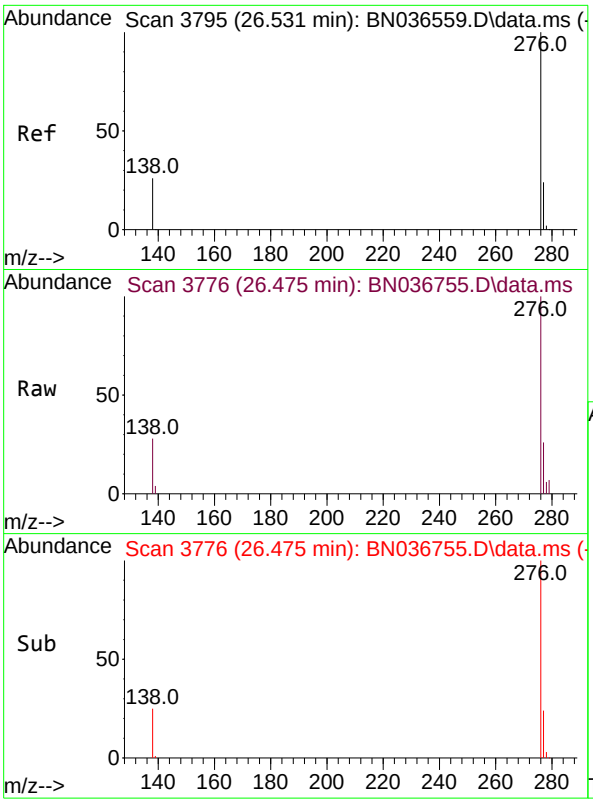


#40
Dibenzo(a,h)anthracene
Concen: 0.370 ng
RT: 25.806 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Tgt Ion:278 Resp: 5864

Ion	Ratio	Lower	Upper
278	100		
139	21.8	20.8	31.2
279	29.5	28.8	43.2



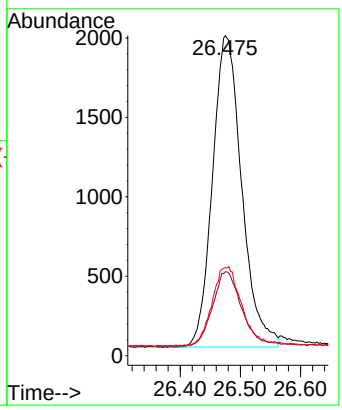


#41
Benzo(g,h,i)perylene
Concen: 0.363 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036755.D
Acq: 28 Mar 2025 01:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 6596

Ion	Ratio	Lower	Upper
276	100		
277	26.3	22.2	33.4
138	27.5	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 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

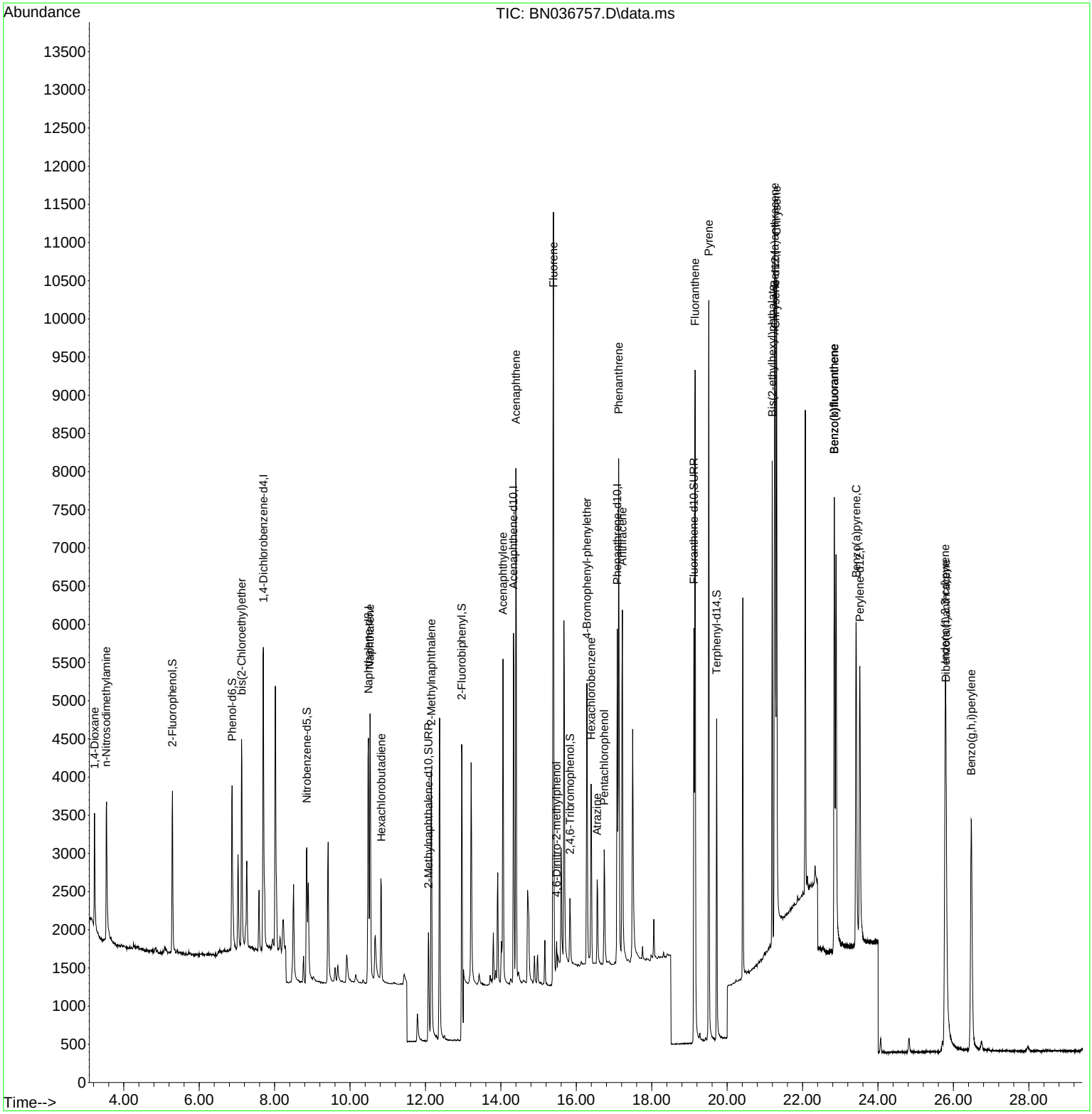
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.703	152	1974	0.400	ng		-0.02
7) Naphthalene-d8	10.488	136	4607	0.400	ng		-0.02
13) Acenaphthene-d10	14.334	164	2750	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5937	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5680	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	5140	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1543	0.335	ng		-0.02
5) Phenol-d6	6.872	99	1947	0.343	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1705	0.340	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2347	0.342	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	507	0.406	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5537	0.346	ng		-0.03
27) Fluoranthene-d10	19.118	212	6252	0.411	ng		-0.02
31) Terphenyl-d14	19.722	244	4254	0.313	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	873	0.399	ng		97
3) n-Nitrosodimethylamine	3.536	42	1735	0.392	ng		95
6) bis(2-Chloroethyl)ether	7.125	93	2072	0.353	ng		98
9) Naphthalene	10.530	128	4865	0.359	ng		99
10) Hexachlorobutadiene	10.829	225	1140	0.357	ng	#	99
12) 2-Methylnaphthalene	12.157	142	3049	0.354	ng		98
16) Acenaphthylene	14.056	152	4680	0.361	ng		99
17) Acenaphthene	14.398	154	3124	0.368	ng		100
18) Fluorene	15.393	166	4263	0.371	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	472	0.457	ng		83
21) 4-Bromophenyl-phenylether	16.280	248	1382	0.372	ng		91
22) Hexachlorobenzene	16.391	284	1636	0.364	ng		97
23) Atrazine	16.553	200	1154	0.387	ng		97
24) Pentachlorophenol	16.739	266	868	0.424	ng		97
25) Phenanthrene	17.124	178	6866	0.386	ng		100
26) Anthracene	17.223	178	6014	0.374	ng		99
28) Fluoranthene	19.150	202	8476	0.424	ng		99
30) Pyrene	19.513	202	9024	0.325	ng		100
32) Benzo(a)anthracene	21.259	228	7146	0.362	ng		99
33) Chrysene	21.313	228	8272	0.383	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5431	0.386	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	7314	0.394	ng		95
37) Benzo(b)fluoranthene	22.841	252	7293	0.390	ng		95
38) Benzo(k)fluoranthene	22.841	252	7293	0.372	ng		94
39) Benzo(a)pyrene	23.420	252	6291	0.399	ng		95
40) Dibenzo(a,h)anthracene	25.803	278	5522	0.382	ng		91
41) Benzo(g,h,i)perylene	26.475	276	6376	0.386	ng		94

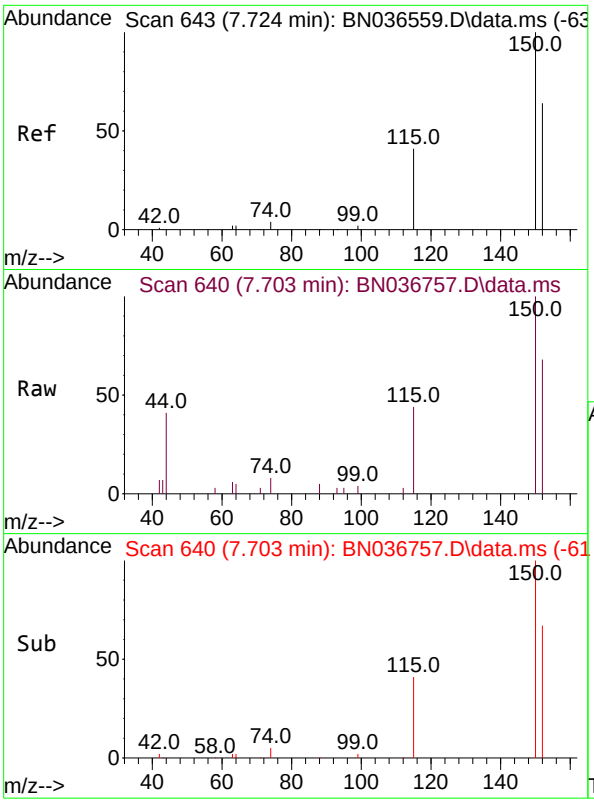
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 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



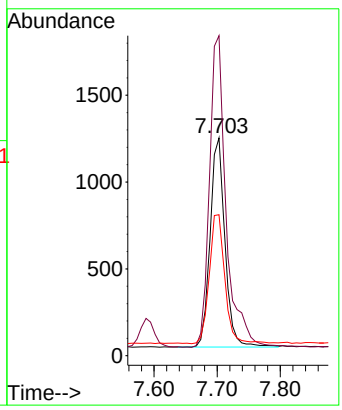


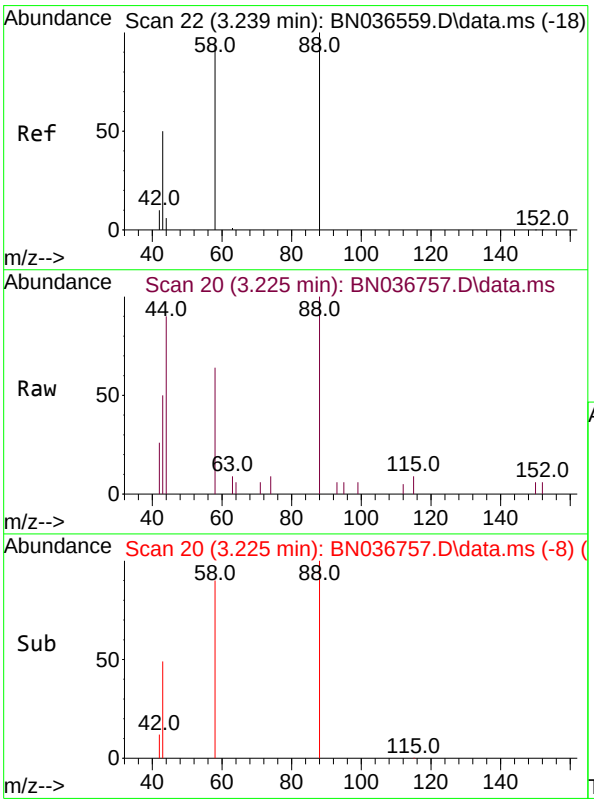
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1974

Ion	Ratio	Lower	Upper
152	100		
150	147.0	123.7	185.5
115	64.8	54.3	81.5

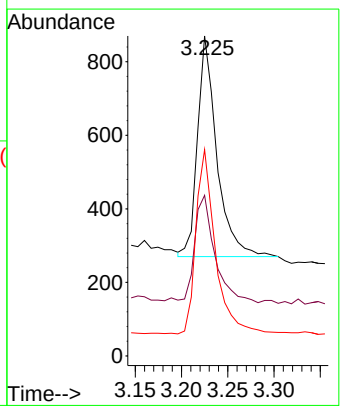


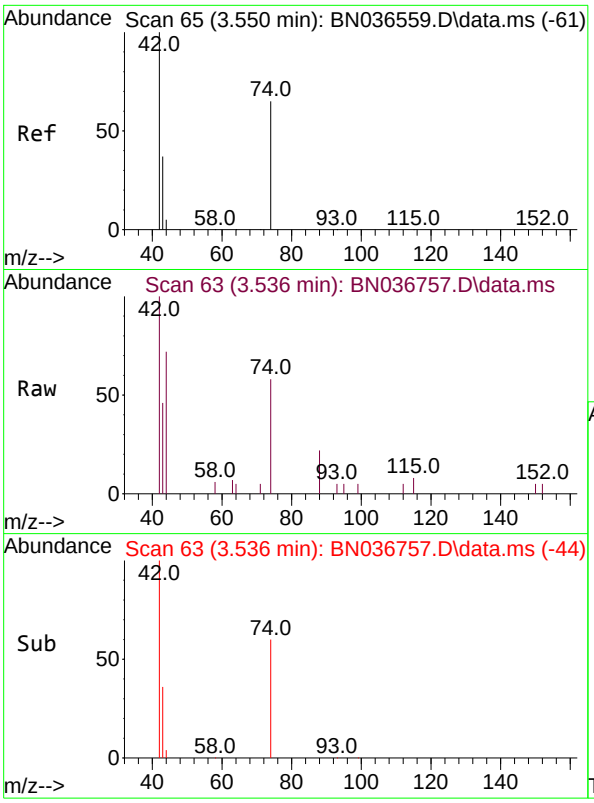


#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 88 Resp: 873

Ion	Ratio	Lower	Upper
88	100		
43	51.8	37.8	56.8
58	83.6	67.4	101.2



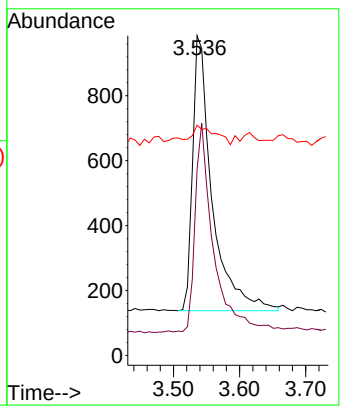


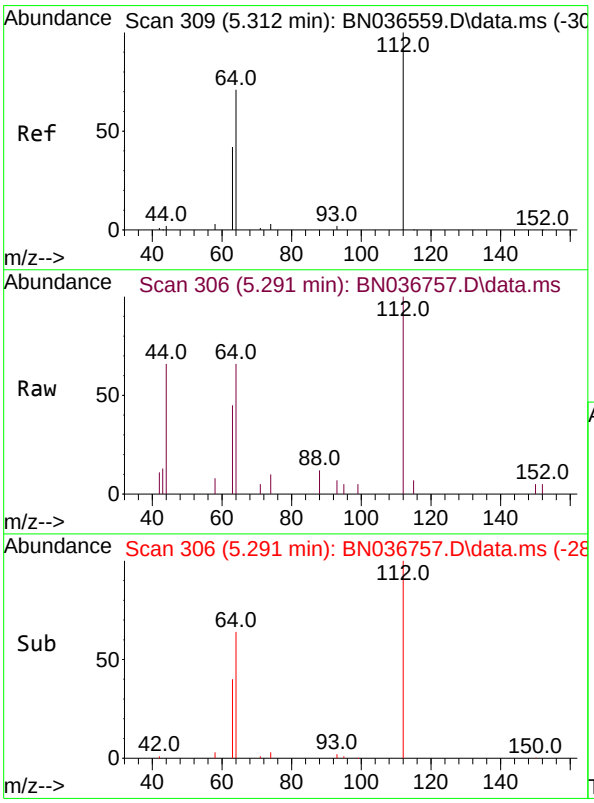
#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1735

Ion	Ratio	Lower	Upper
42	100		
74	70.8	60.6	90.8
44	8.1	6.3	9.5

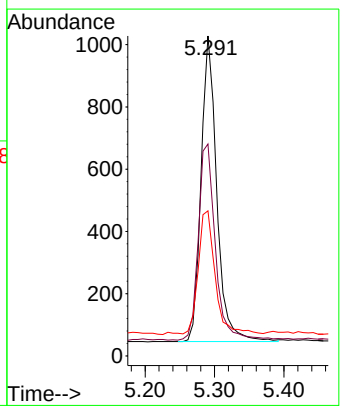


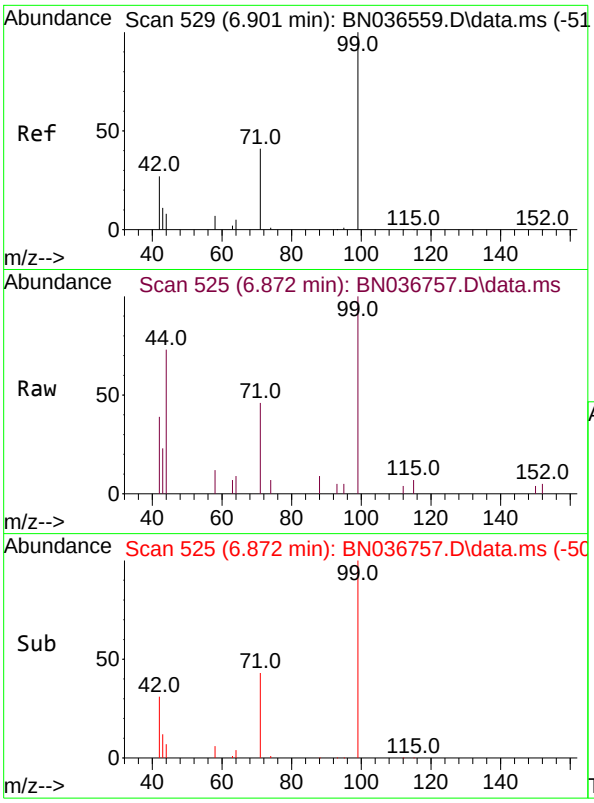


#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:112 Resp: 1543

Ion	Ratio	Lower	Upper
112	100		
64	69.8	53.1	79.7
63	43.0	31.8	47.8



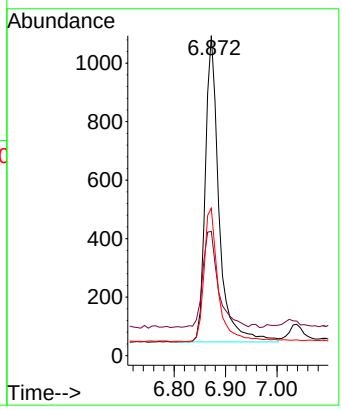


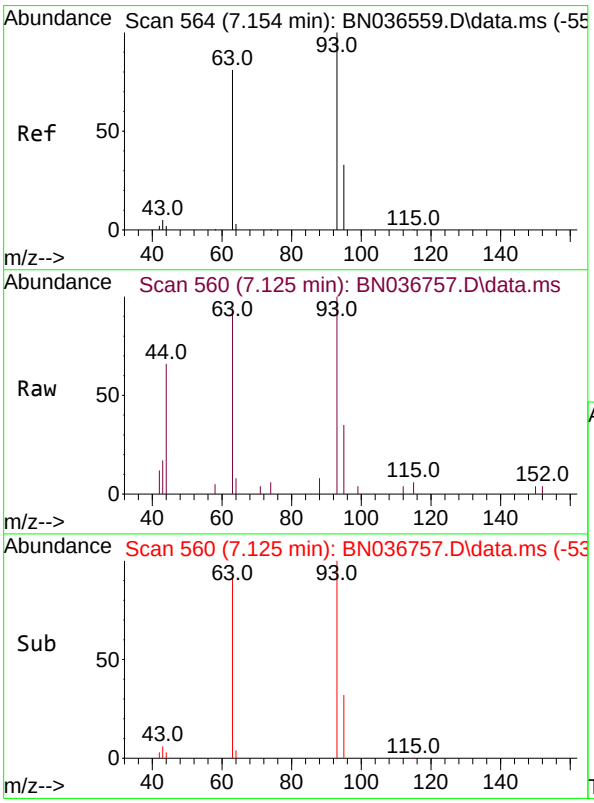
#5
Phenol-d6
Concen: 0.343 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1947

Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	46.1	34.1	51.1

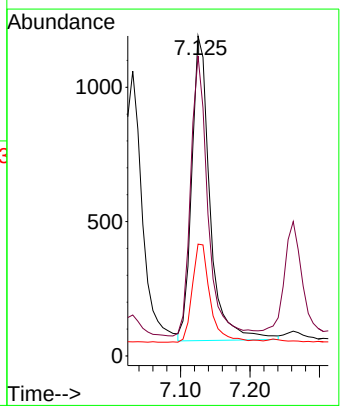


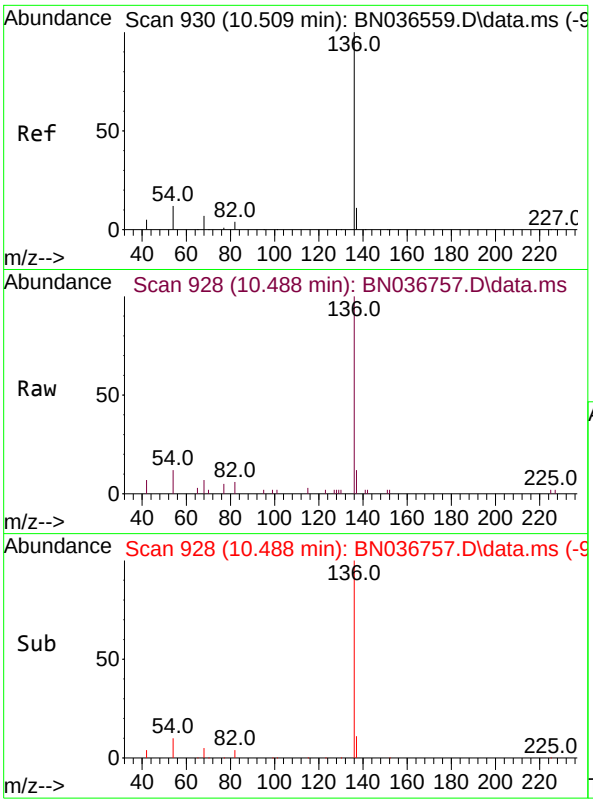


#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 93 Resp: 2072

Ion	Ratio	Lower	Upper
93	100		
63	86.9	67.7	101.5
95	31.7	25.6	38.4



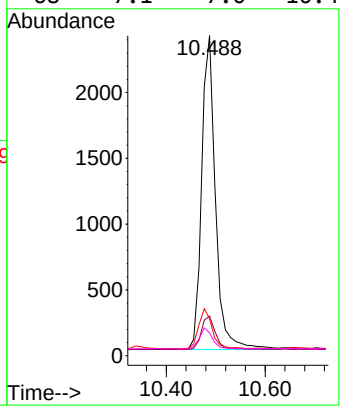


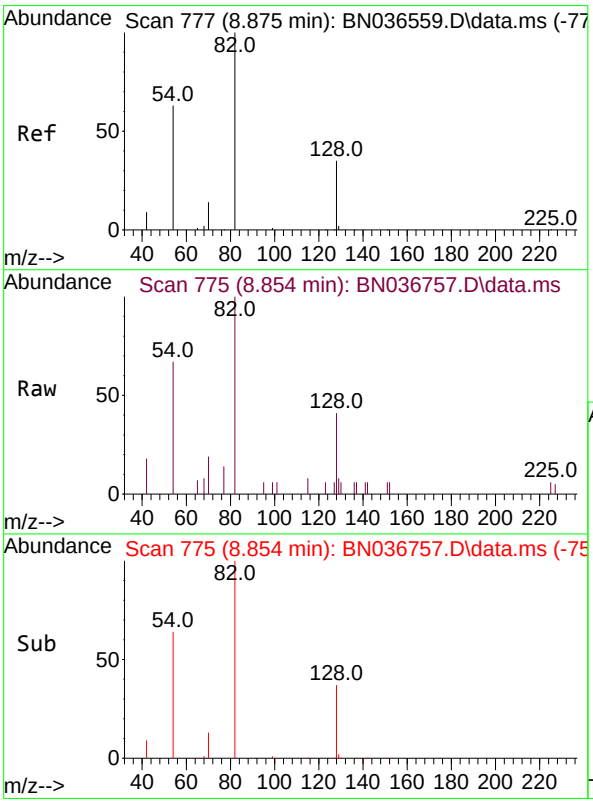
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 4607

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	11.6	11.5	17.3
68	7.1	7.0	10.4

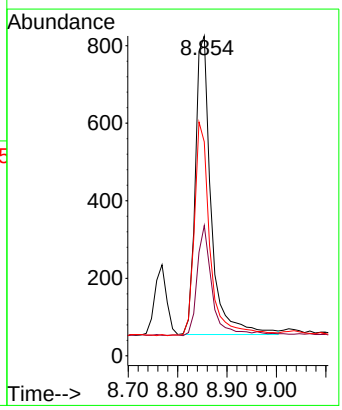


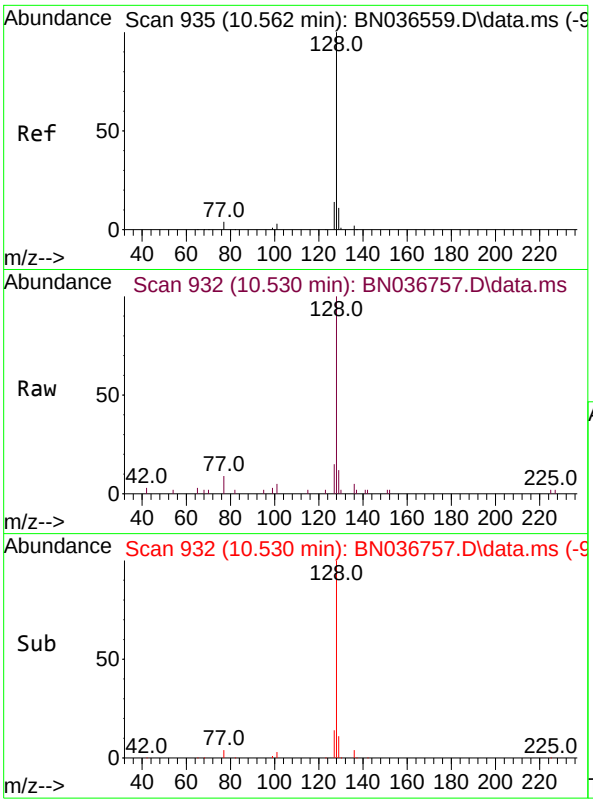


#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 82 Resp: 1705

Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	66.9	52.2	78.4



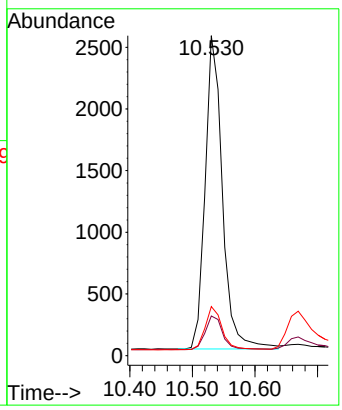


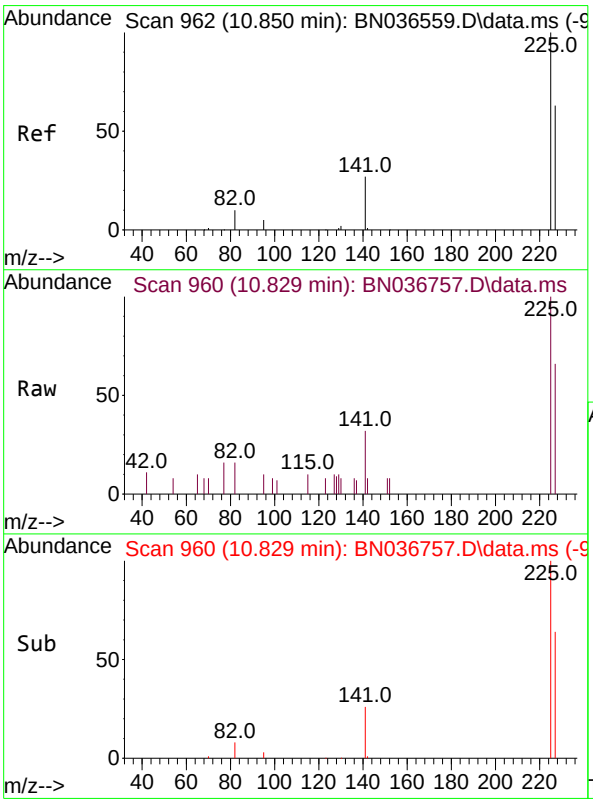
#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4865

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.3	11.8	17.8

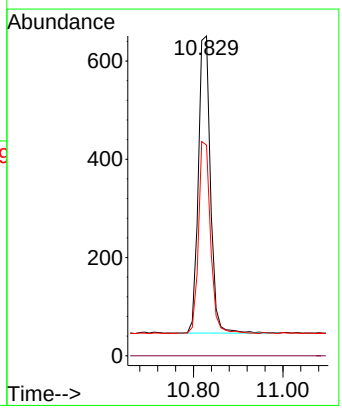


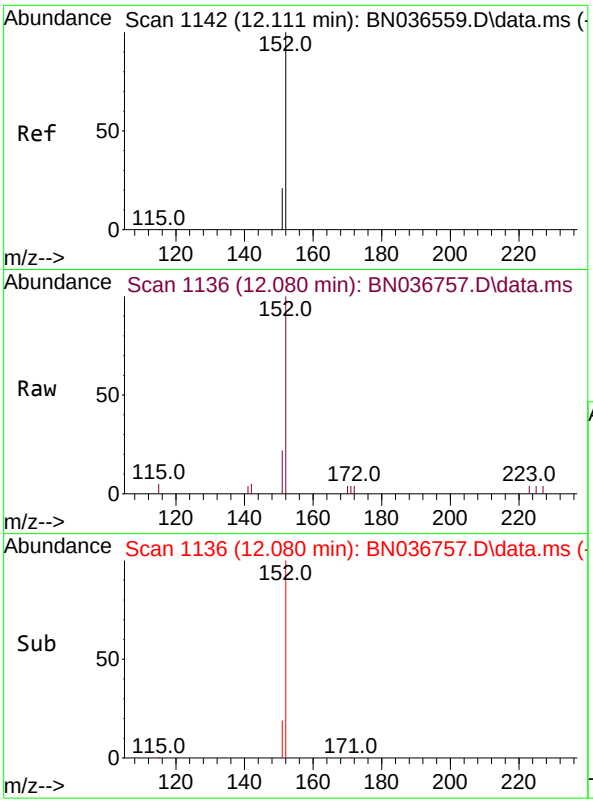


#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:225 Resp: 1140

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.8	77.8



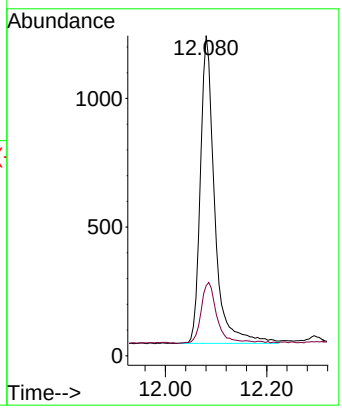


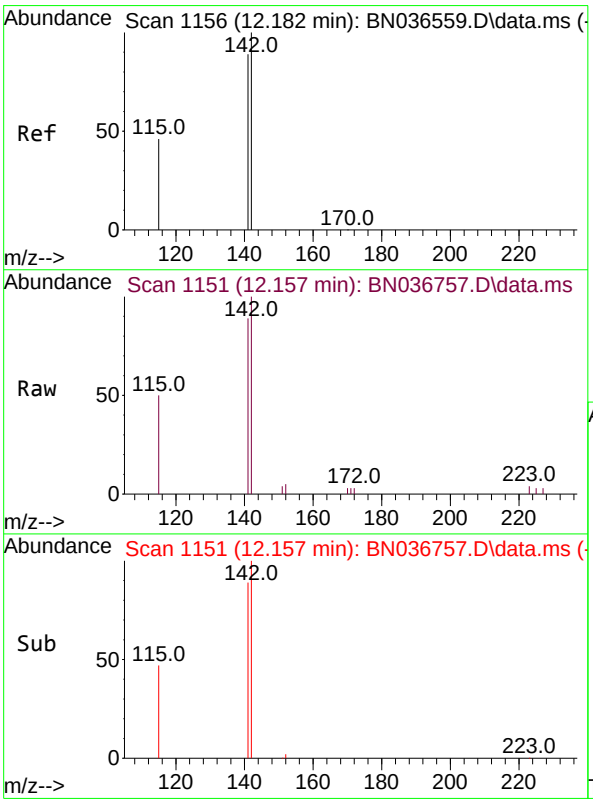
#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2347

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

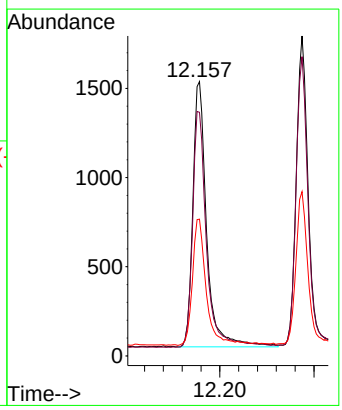


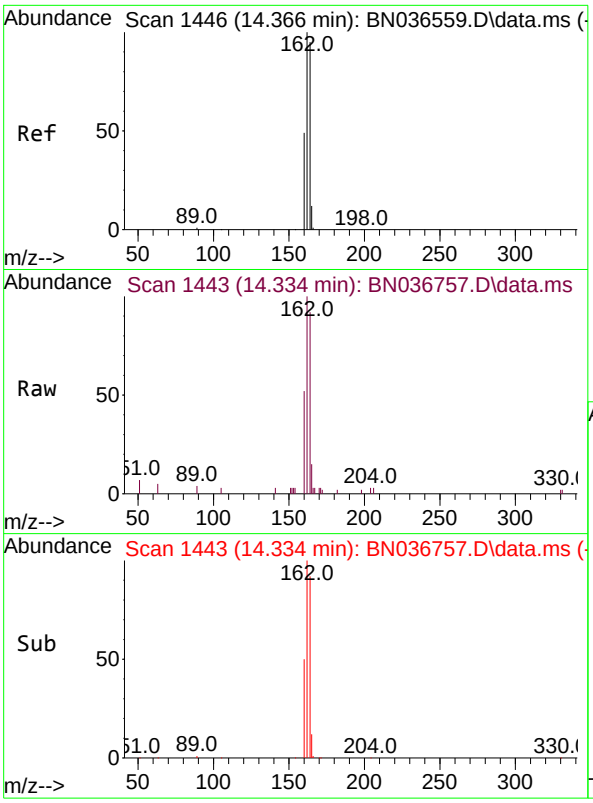


#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:142 Resp: 3049

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.7	107.5
115	49.9	38.3	57.5



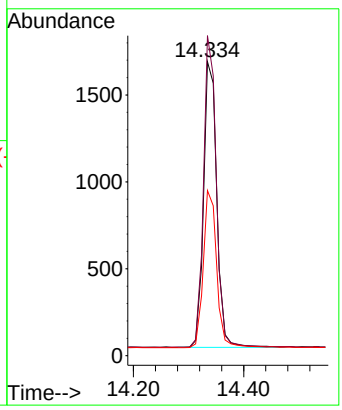


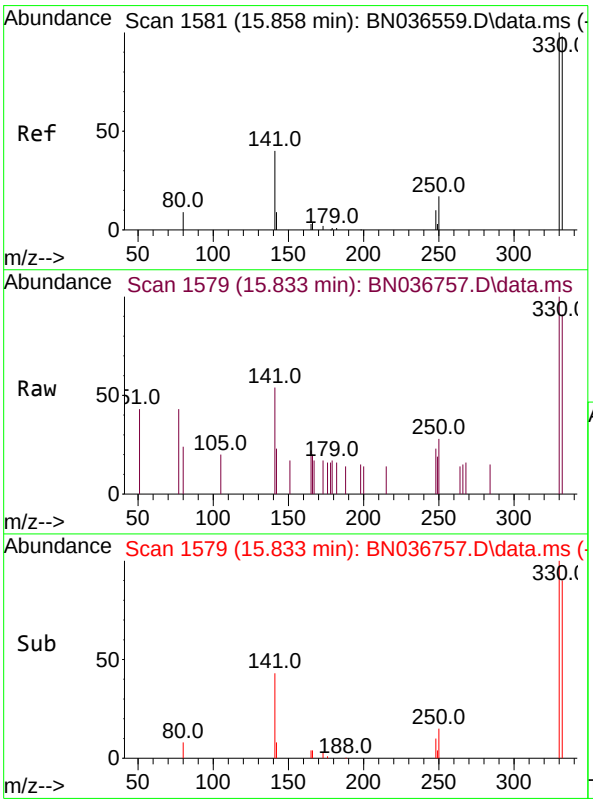
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2750

Ion	Ratio	Lower	Upper
164	100		
162	108.9	84.2	126.2
160	56.2	42.2	63.2

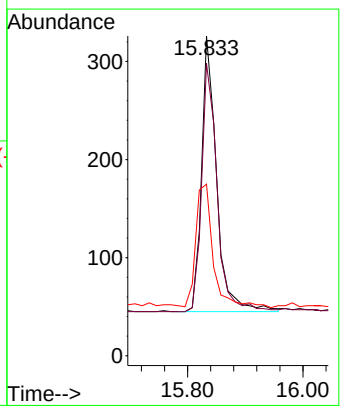


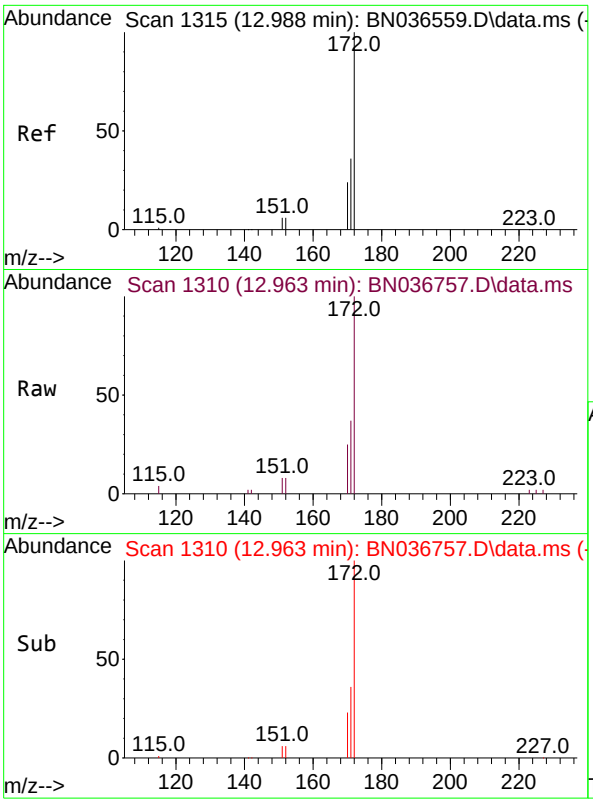


#14
2,4,6-Tribromophenol
Concen: 0.406 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:330 Resp: 507

Ion	Ratio	Lower	Upper
330	100		
332	92.9	75.2	112.8
141	52.3	43.4	65.2



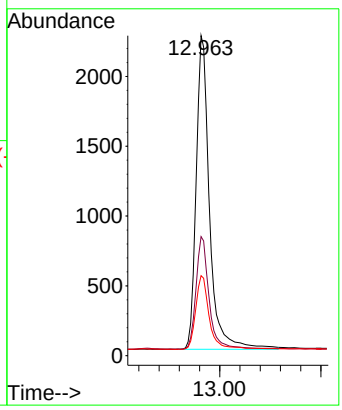


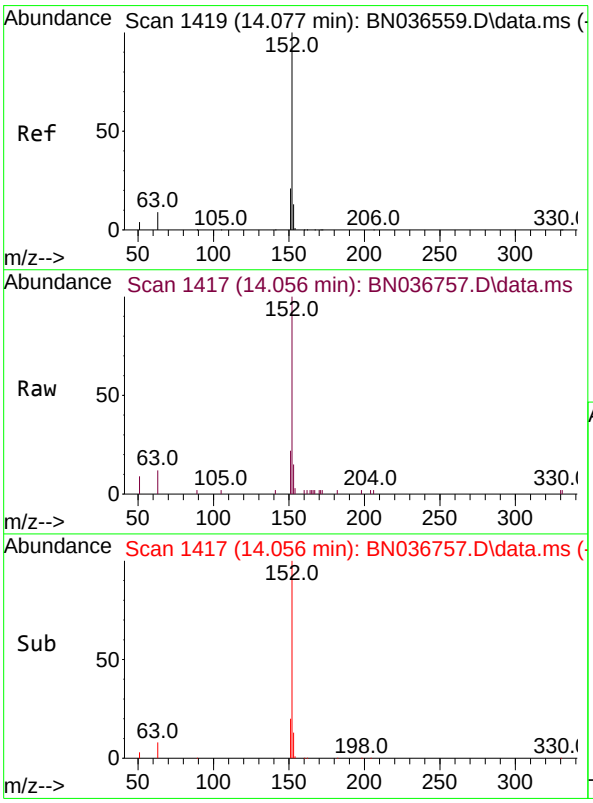
#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 5537

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.0	20.2	30.4

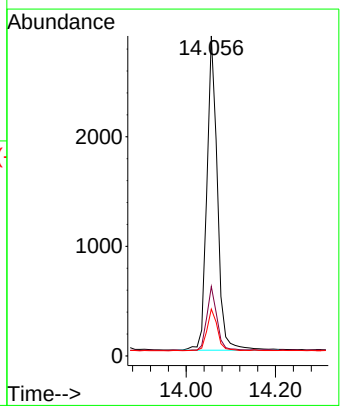


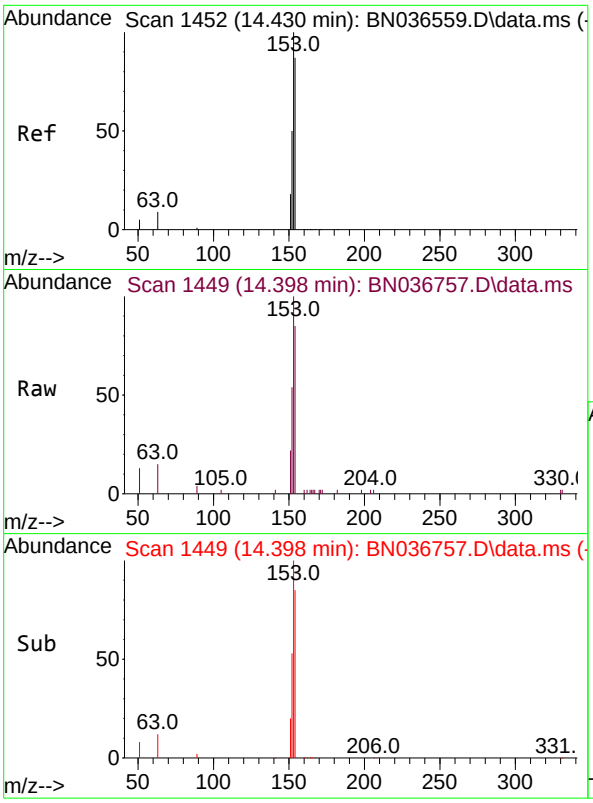


#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152 Resp: 4680

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	13.4	10.6	15.8



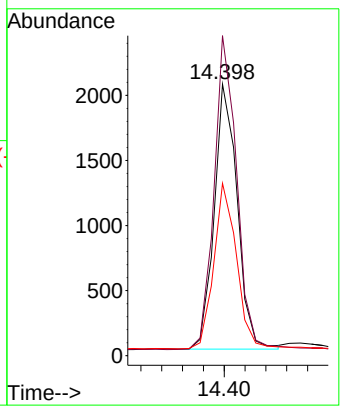


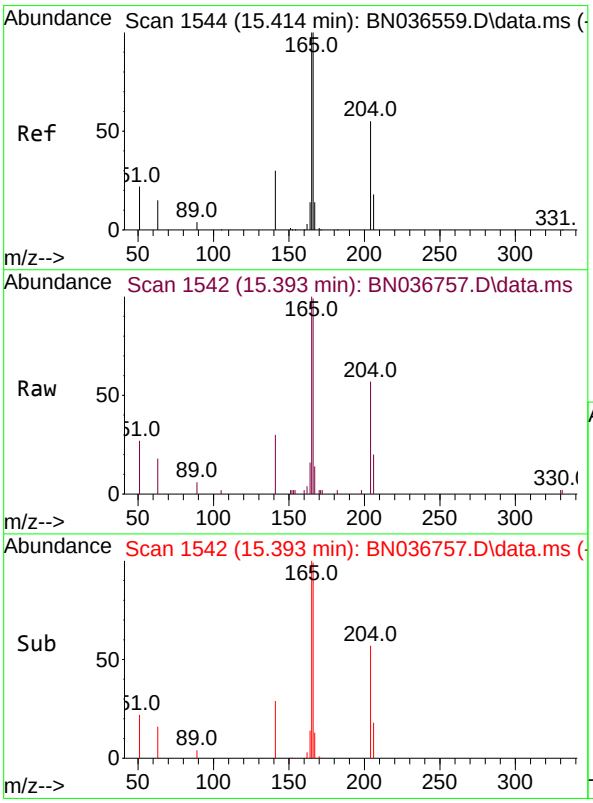
#17
Acenaphthene
Concen: 0.368 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 3124

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	62.6	49.8	74.6

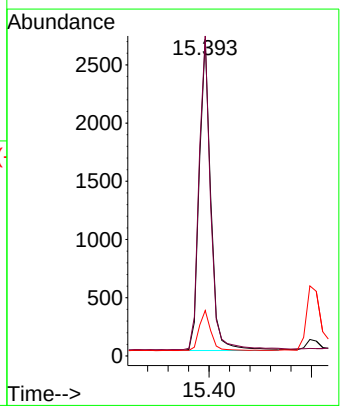


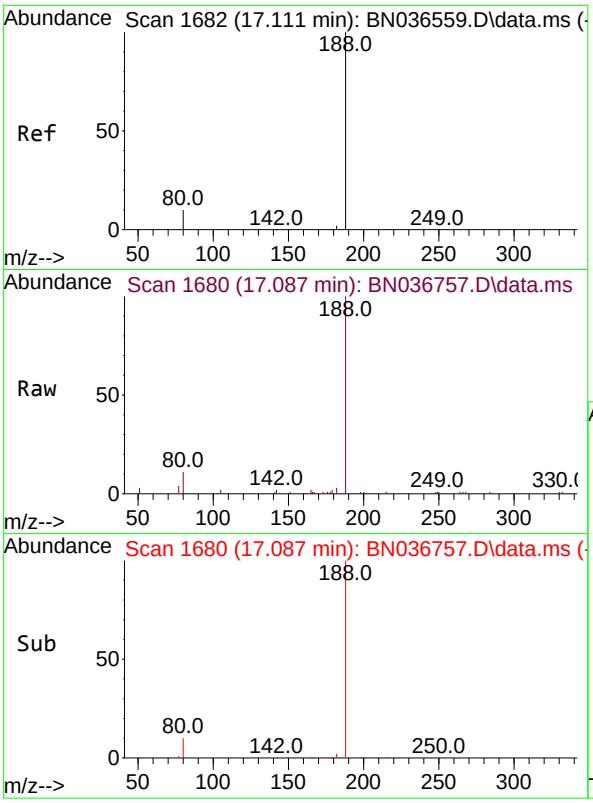


#18
Fluorene
Concen: 0.371 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:166 Resp: 4263

Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.8	119.8
167	12.7	10.6	15.8



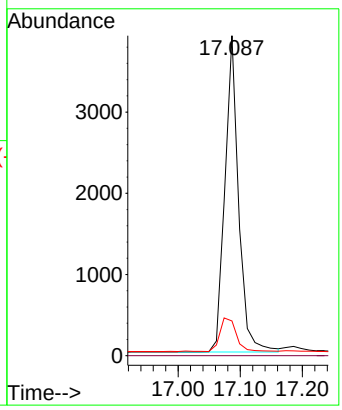


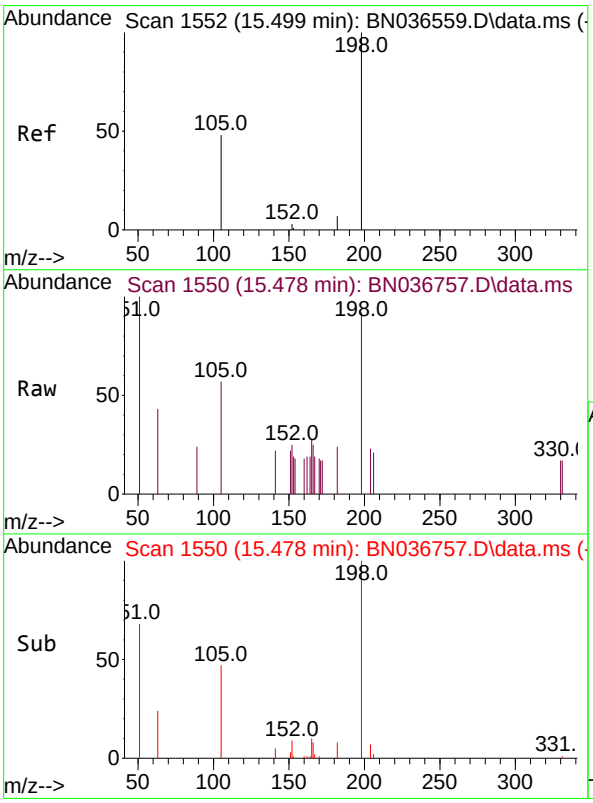
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 5937

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.8	8.8	13.2

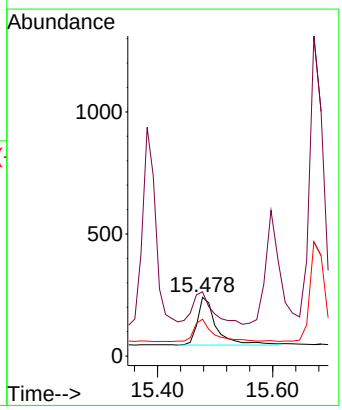


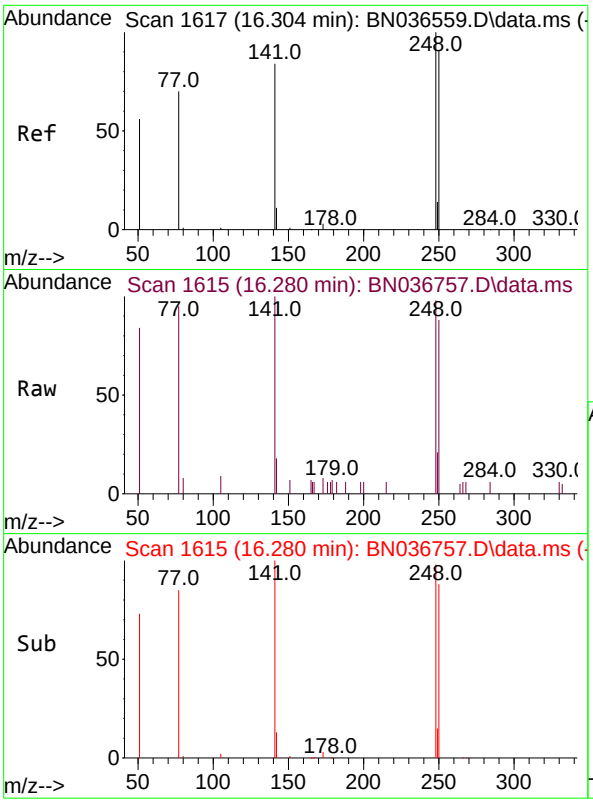


#20
4,6-Dinitro-2-methylphenol
Concen: 0.457 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:198 Resp: 472

Ion	Ratio	Lower	Upper
198	100		
51	109.1	107.9	161.9
105	62.7	56.2	84.2



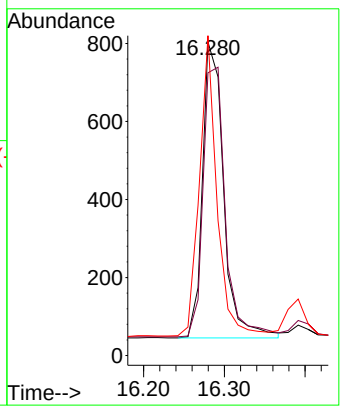


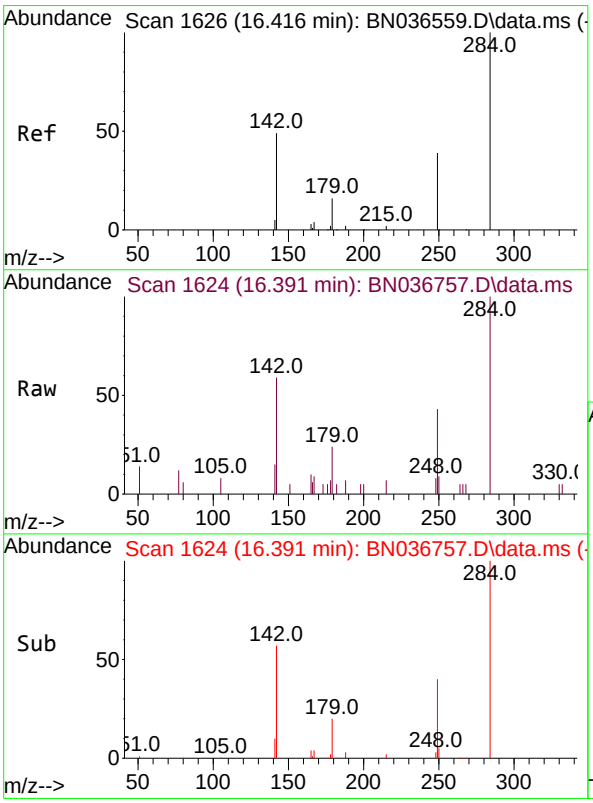
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1382

Ion	Ratio	Lower	Upper
248	100		
250	90.2	73.0	109.6
141	102.0	68.6	103.0

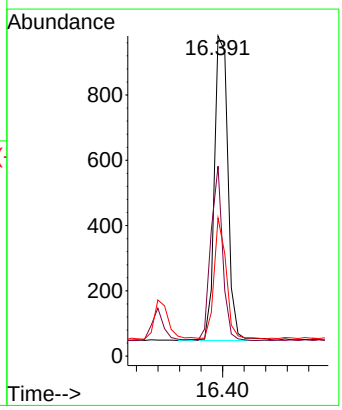


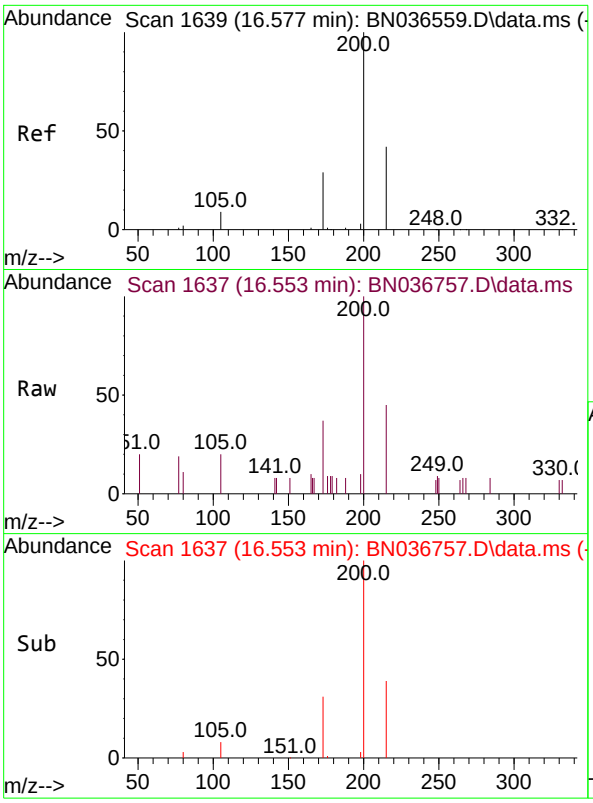


#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:284 Resp: 1636

Ion	Ratio	Lower	Upper
284	100		
142	49.6	37.0	55.4
249	35.2	28.1	42.1



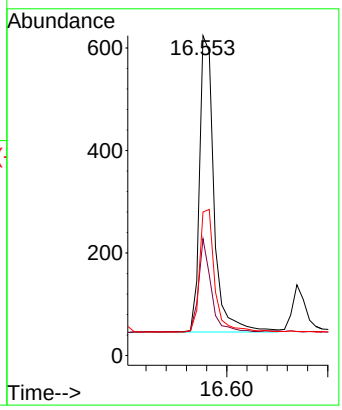


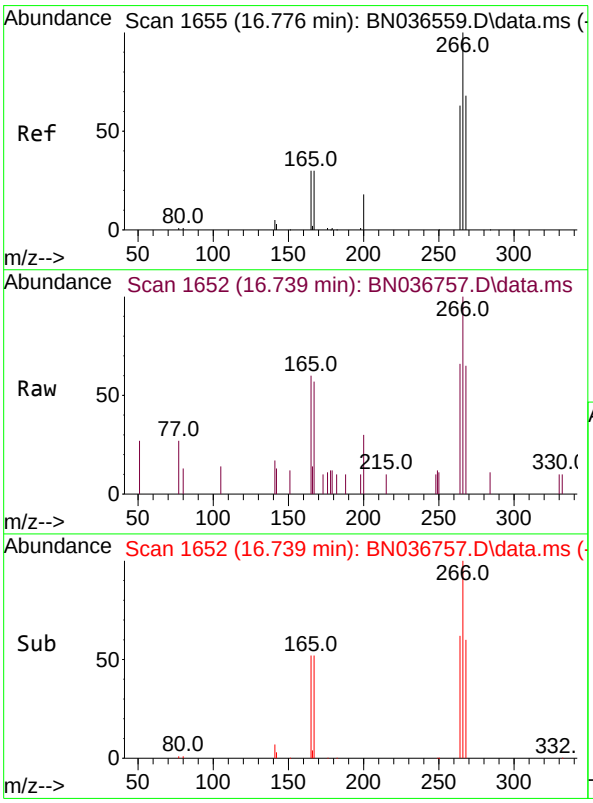
#23
Atrazine
Concen: 0.387 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1154

Ion	Ratio	Lower	Upper
200	100		
173	36.5	27.3	40.9
215	44.9	36.8	55.2

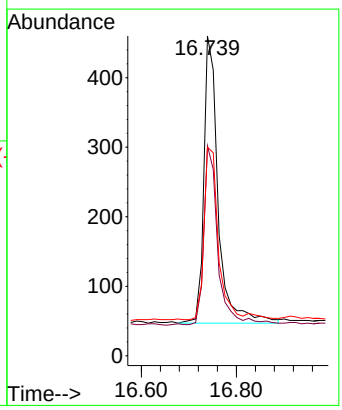


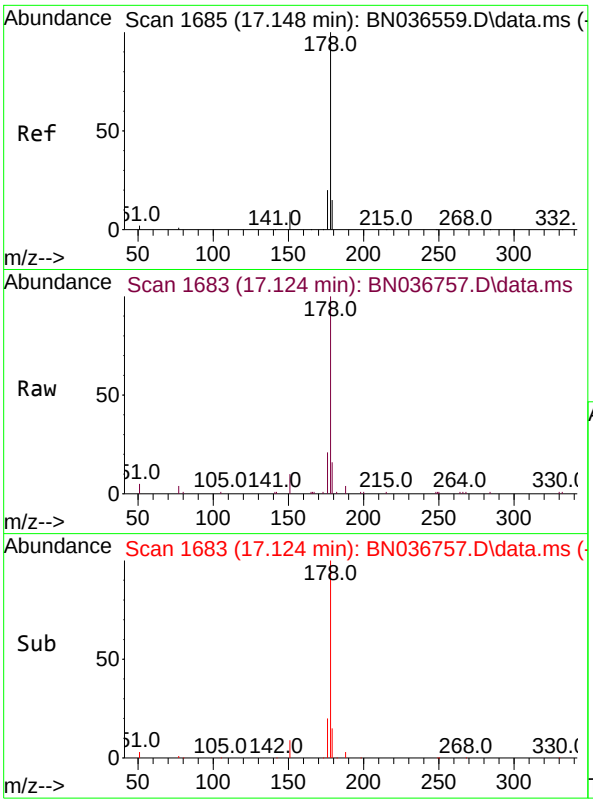


#24
Pentachlorophenol
Concen: 0.424 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:266 Resp: 868

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.6	74.4
268	59.4	50.9	76.3



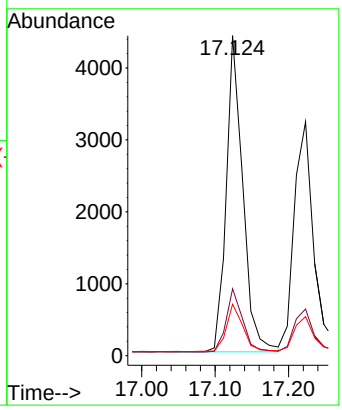


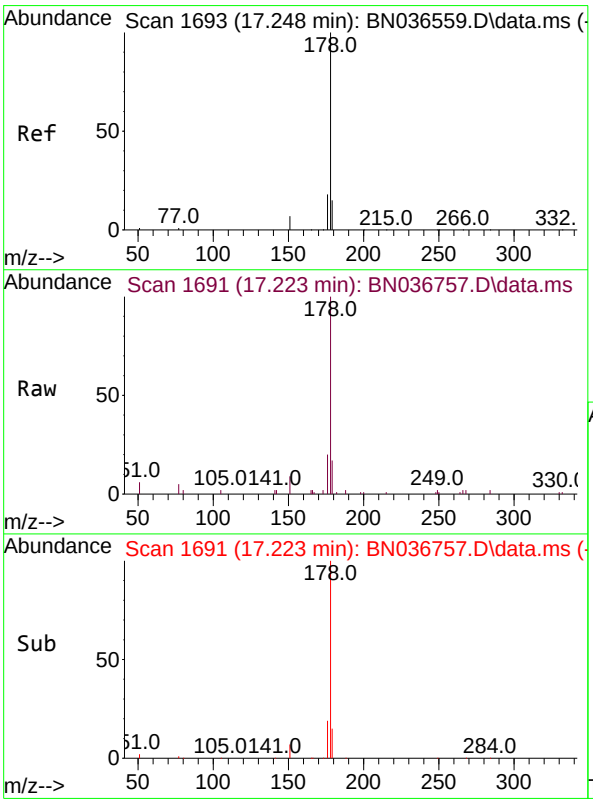
#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 6866

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.3	12.2	18.4

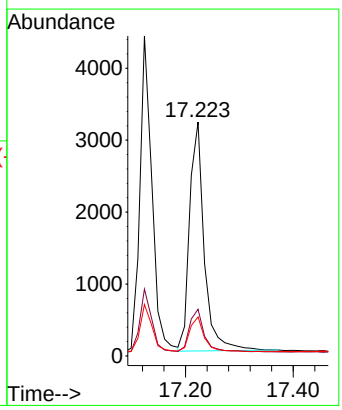


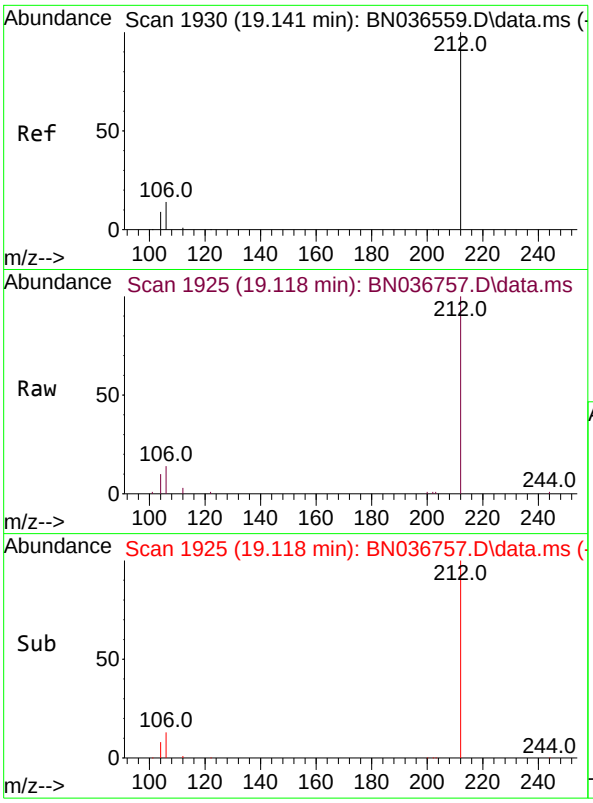


#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 6014

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	18.8



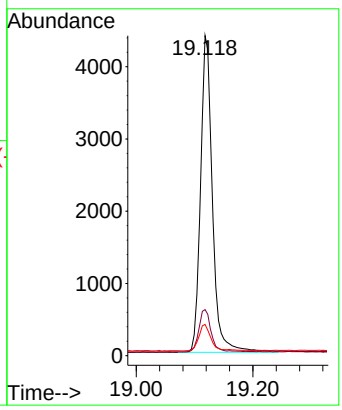


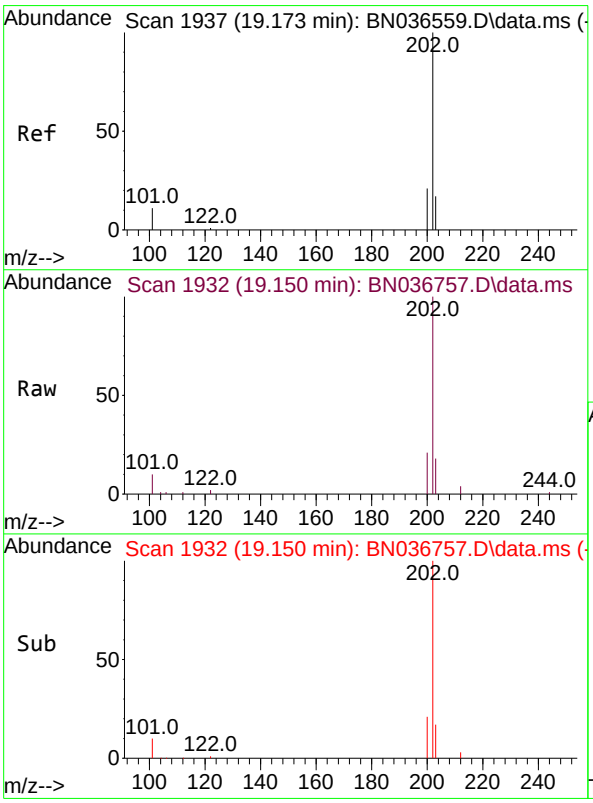
#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 6252

Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	8.6	7.3	10.9

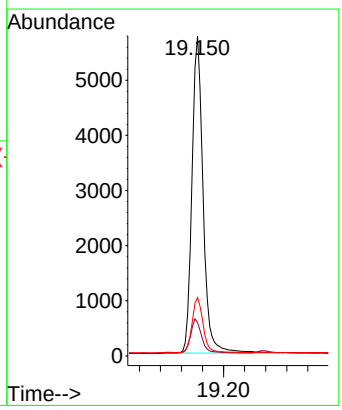


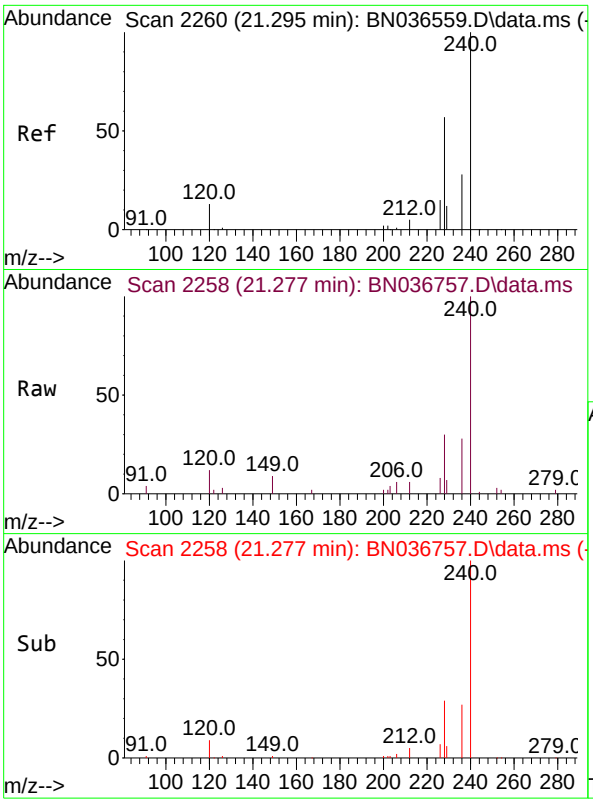


#28
Fluoranthene
Concen: 0.424 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 8476

Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	17.2	13.5	20.3



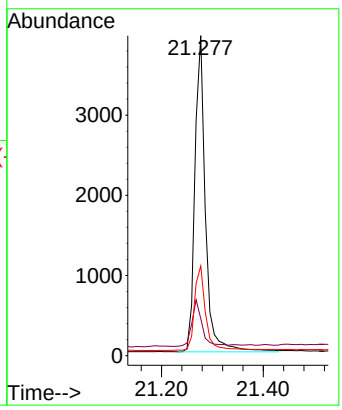


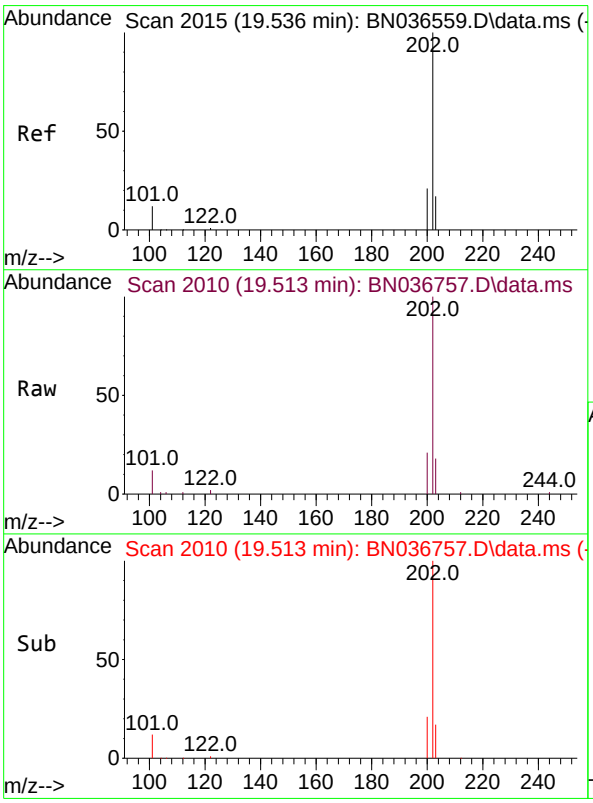
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 5680

Ion	Ratio	Lower	Upper
240	100		
120	11.6	14.6	22.0#
236	28.0	24.1	36.1

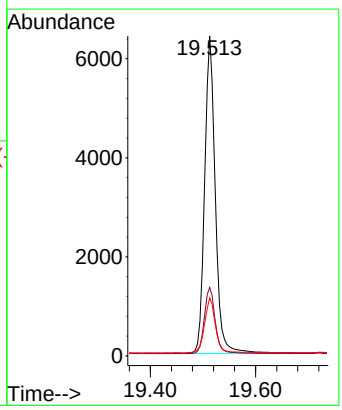


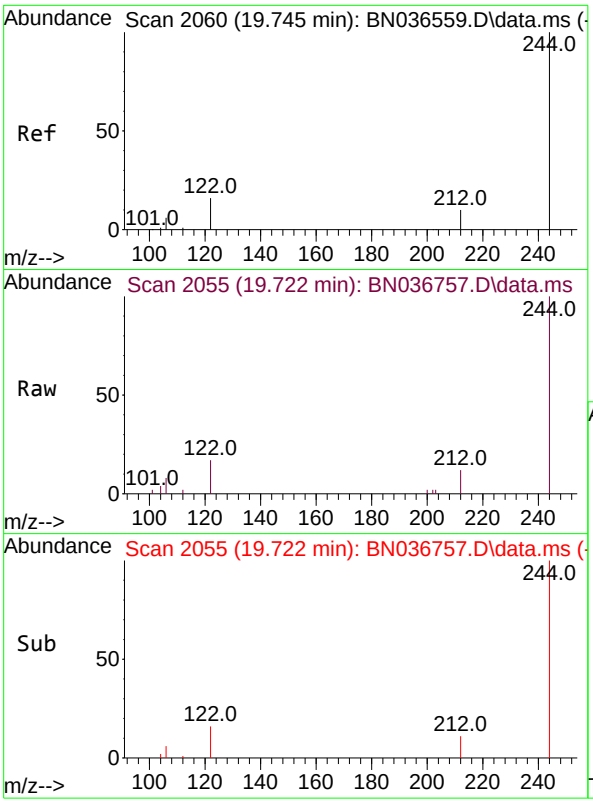


#30
Pyrene
Concen: 0.325 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 9024

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.5	14.1	21.1



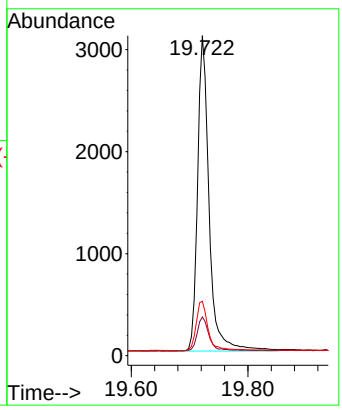


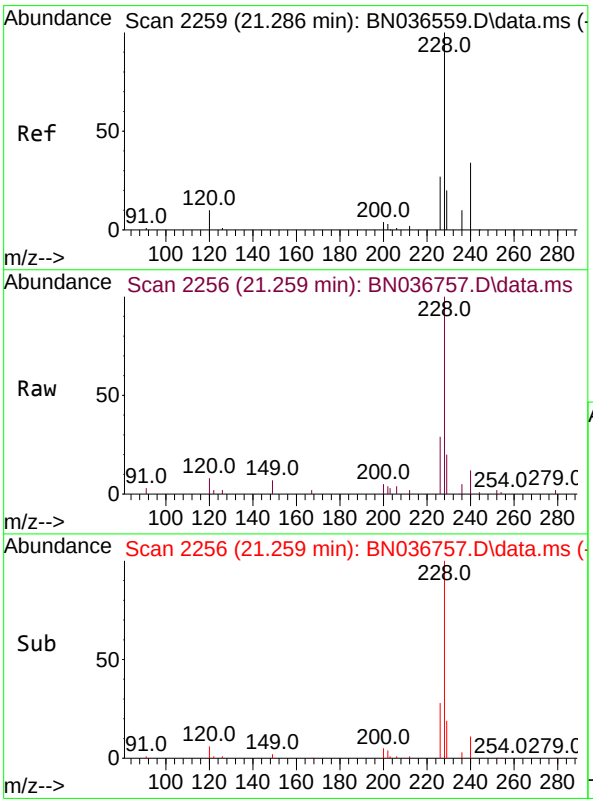
#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 4254

Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	17.0	13.9	20.9

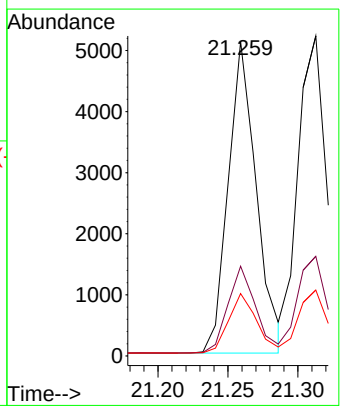


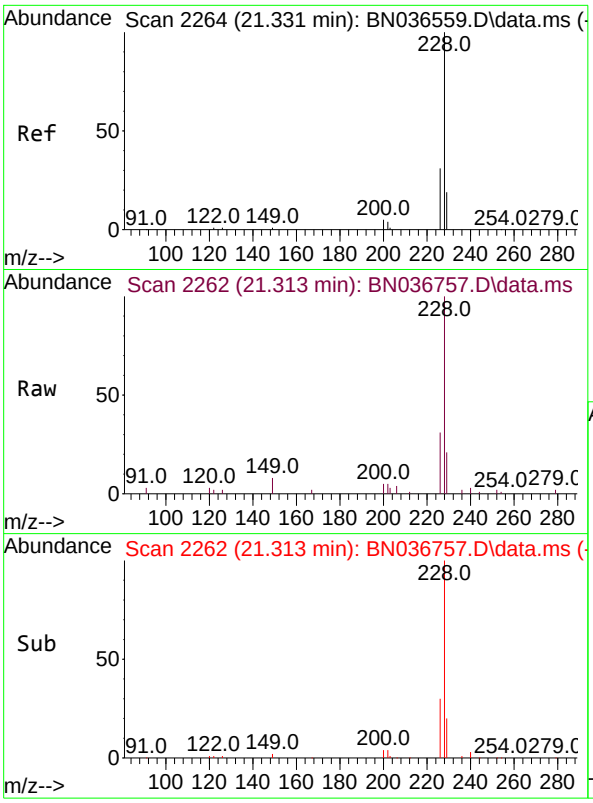


#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 7146

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	19.8	16.6	25.0



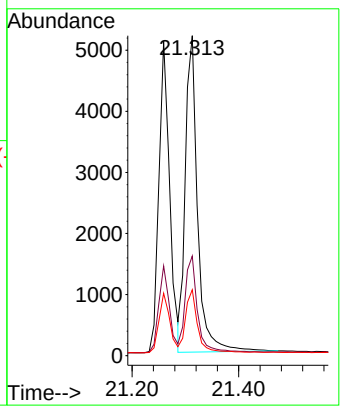


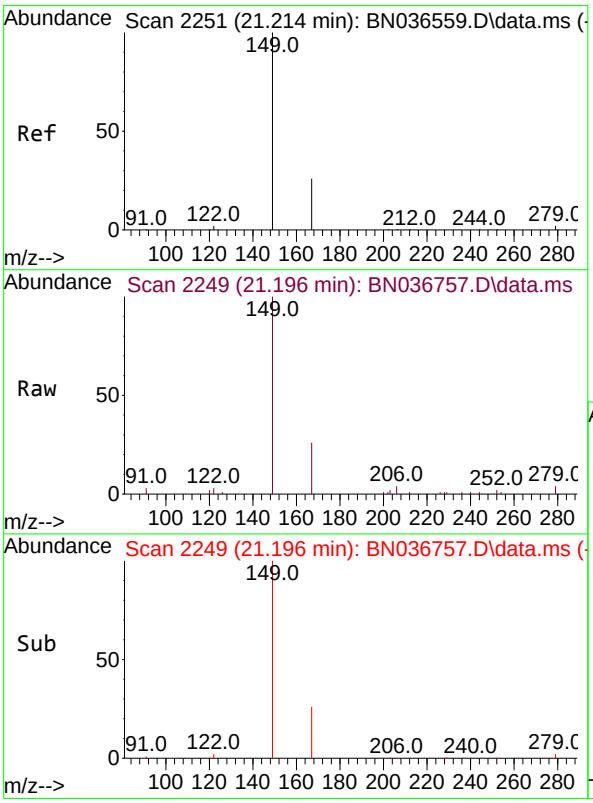
#33
Chrysene
Concen: 0.383 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 8272

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.3	37.9
229	20.6	15.8	23.8

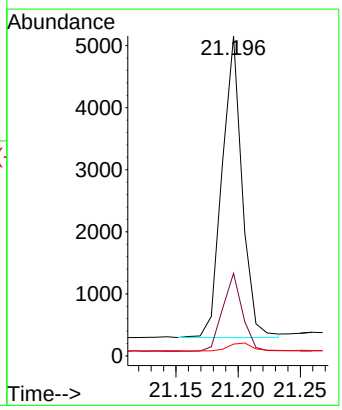


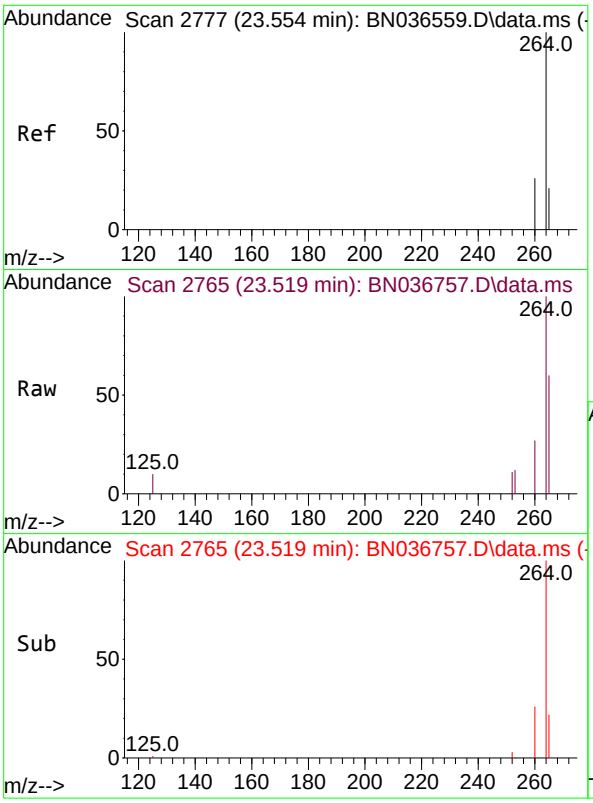


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:149 Resp: 5431

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	3.4	3.6	5.4#



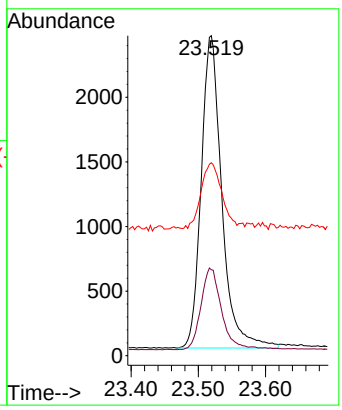


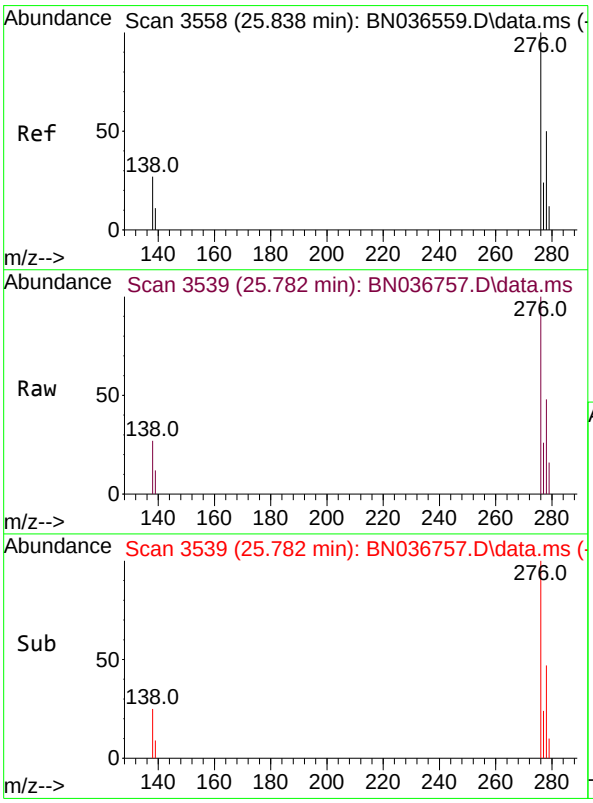
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 5140

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	60.3	88.1	132.1#

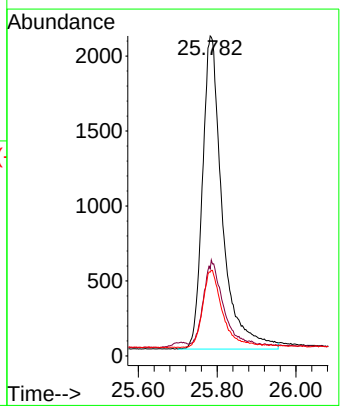


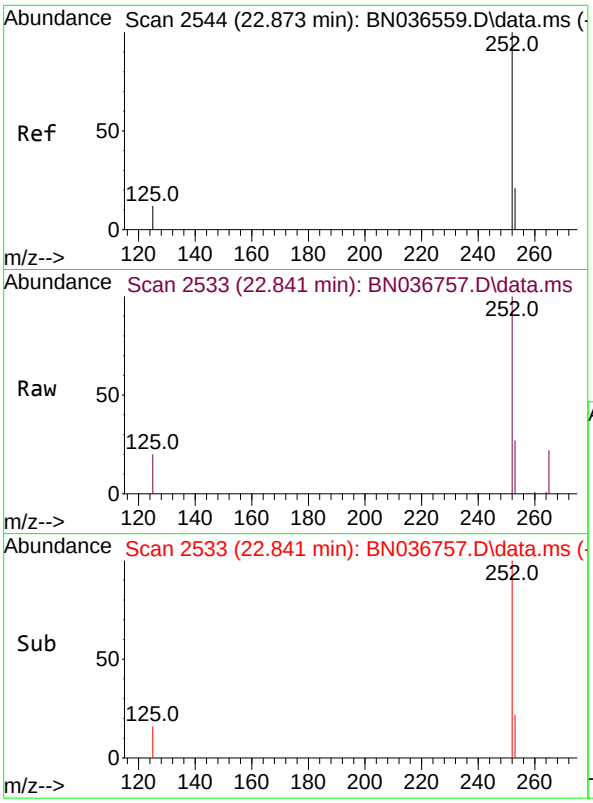


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 7314

Ion	Ratio	Lower	Upper
276	100		
138	24.9	23.4	35.2
277	24.6	20.0	30.0



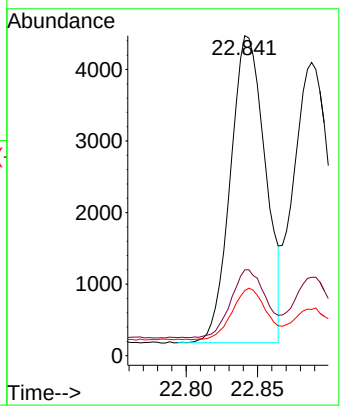


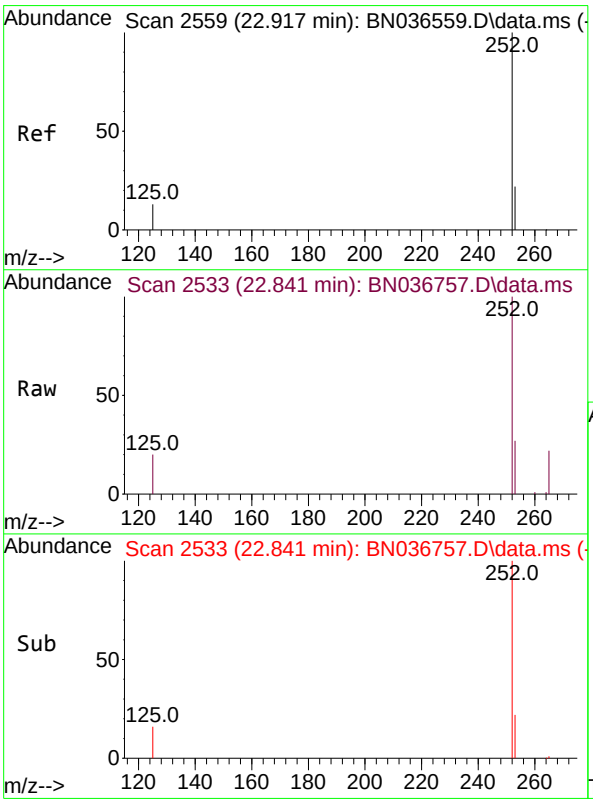
#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 7293

Ion	Ratio	Lower	Upper
252	100		
253	26.8	23.9	35.9
125	20.4	17.4	26.2

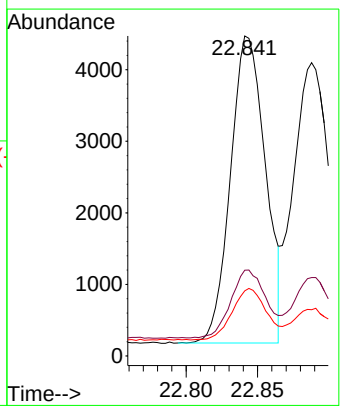


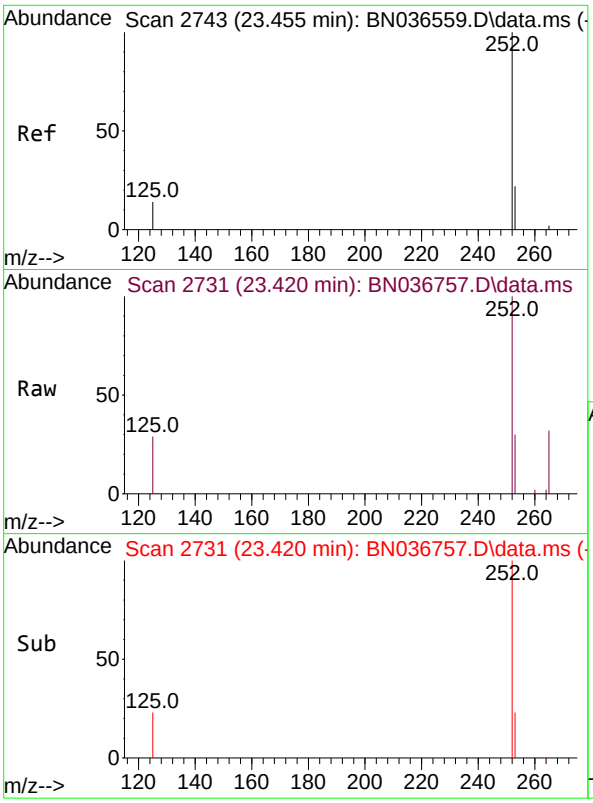


#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 7293

Ion	Ratio	Lower	Upper
252	100		
253	26.8	24.6	36.8
125	20.4	17.8	26.8



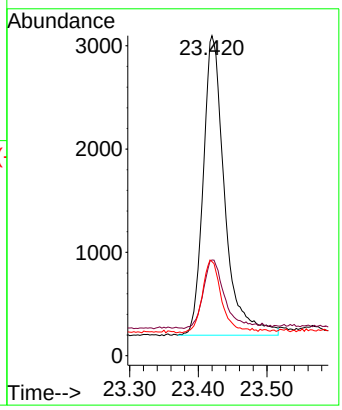


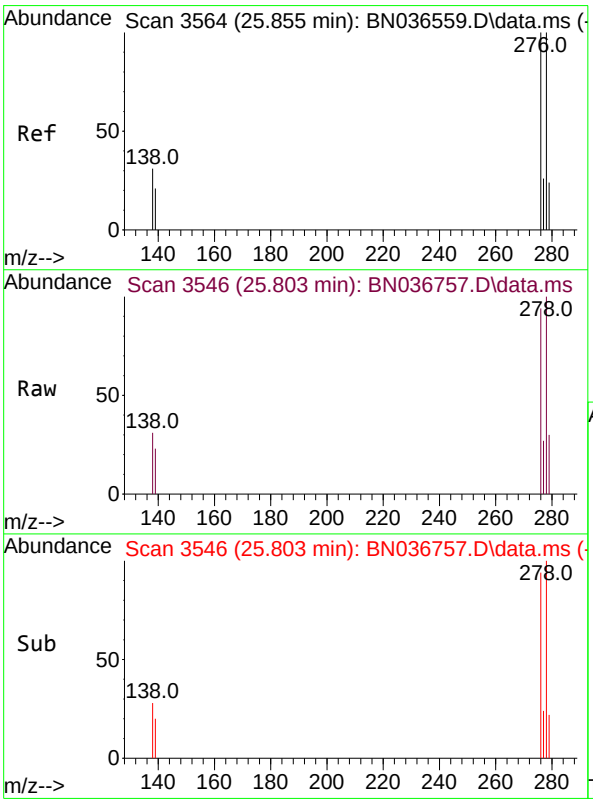
#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 6291

Ion	Ratio	Lower	Upper
252	100		
253	29.9	27.8	41.8
125	29.4	22.7	34.1

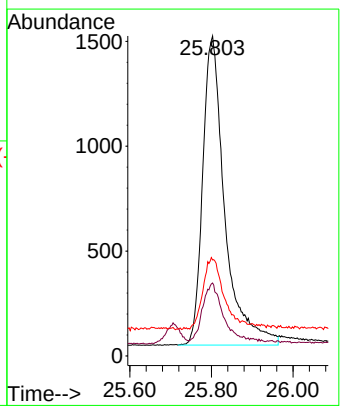


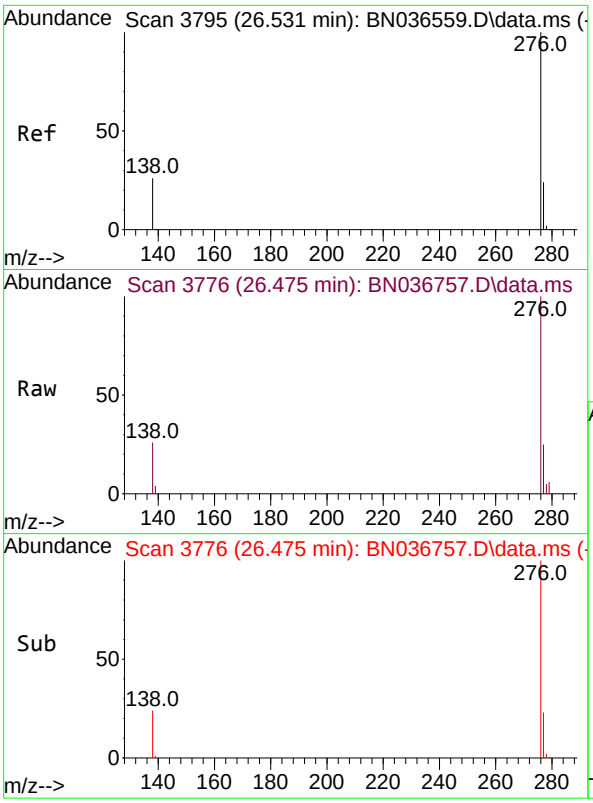


#40
Dibenzo(a,h)anthracene
Concen: 0.382 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:278 Resp: 5522

Ion	Ratio	Lower	Upper
278	100		
139	22.8	20.8	31.2
279	30.0	28.8	43.2



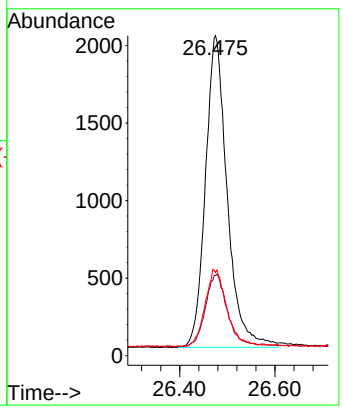


#41
Benzo(g,h,i)perylene
Concen: 0.386 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 6376

Ion	Ratio	Lower	Upper
276	100		
277	25.1	22.2	33.4
138	26.0	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036763.D
Acq On : 28 Mar 2025 07:22
Operator : RC/JU
Sample : Q1608-25
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Quant Time: Mar 28 07:50:09 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

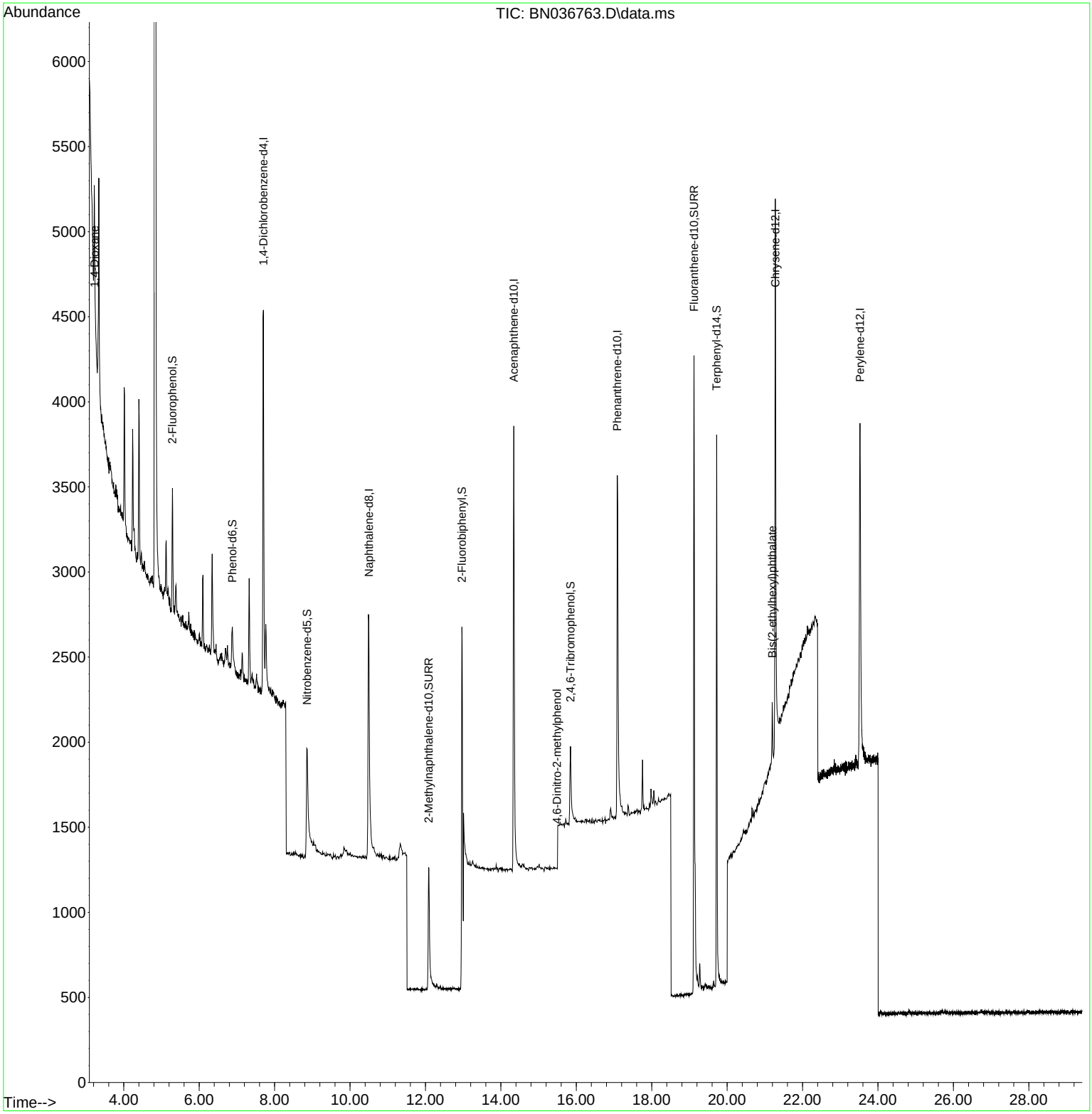
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1286	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	2922	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	1856	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4045	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3693	0.400	ng	-0.02
35) Perylene-d12	23.525	264	3430	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	501	0.167	ng	-0.02
5) Phenol-d6	6.879	99	325	0.088	ng	-0.02
8) Nitrobenzene-d5	8.865	82	1043	0.328	ng	-0.01
11) 2-Methylnaphthalene-d10	12.085	152	1603	0.369	ng	-0.03
14) 2,4,6-Tribromophenol	15.845	330	385	0.457	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	3677	0.341	ng	-0.02
27) Fluoranthene-d10	19.122	212	4853	0.468	ng	-0.02
31) Terphenyl-d14	19.722	244	3401	0.384	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	454	0.318	ng	# 36
20) 4,6-Dinitro-2-methylph...	15.489	198	2	0.148	ng	# 15
34) Bis(2-ethylhexyl)phtha...	21.196	149	316	0.035	ng	# 91

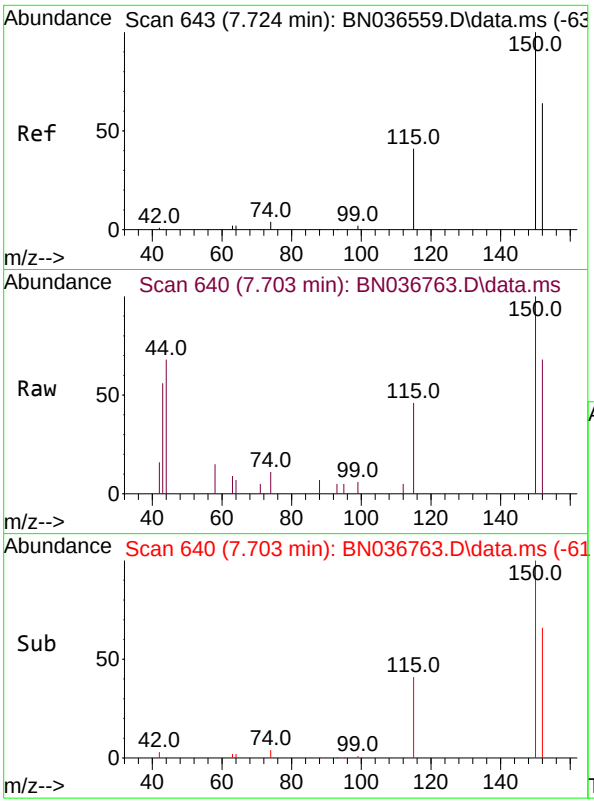
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036763.D
Acq On : 28 Mar 2025 07:22
Operator : RC/JU
Sample : Q1608-25
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Quant Time: Mar 28 07:50:09 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



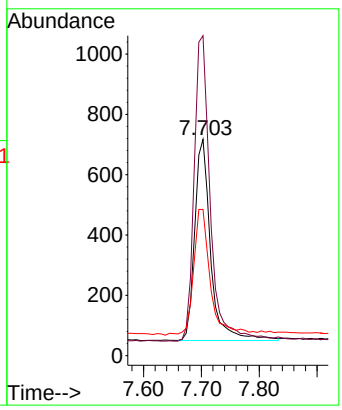


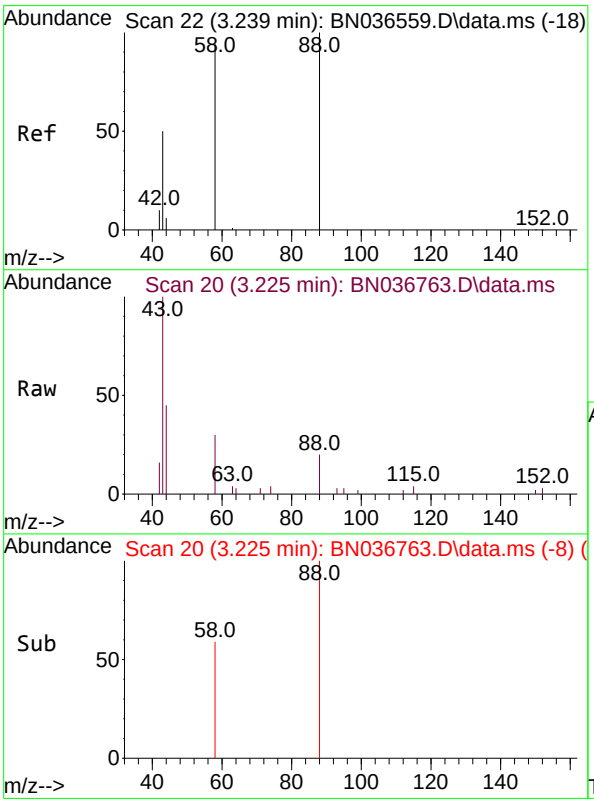
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:152 Resp: 1286

Ion	Ratio	Lower	Upper
152	100		
150	148.0	123.7	185.5
115	67.6	54.3	81.5

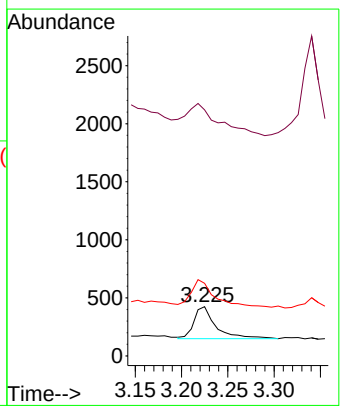


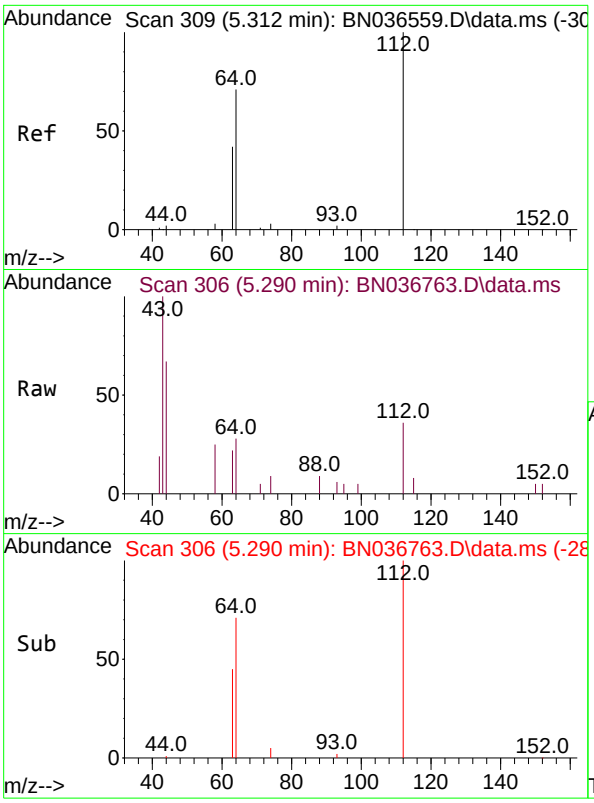


#2
1,4-Dioxane
Concen: 0.318 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion: 88 Resp: 454

Ion	Ratio	Lower	Upper
88	100		
43	157.0	37.8	56.8#
58	91.9	67.4	101.2



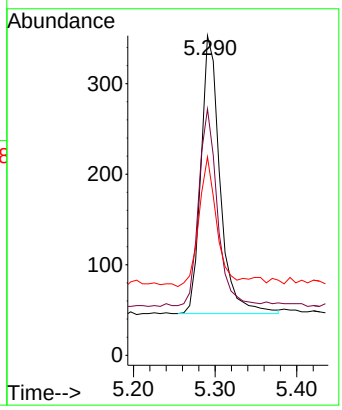


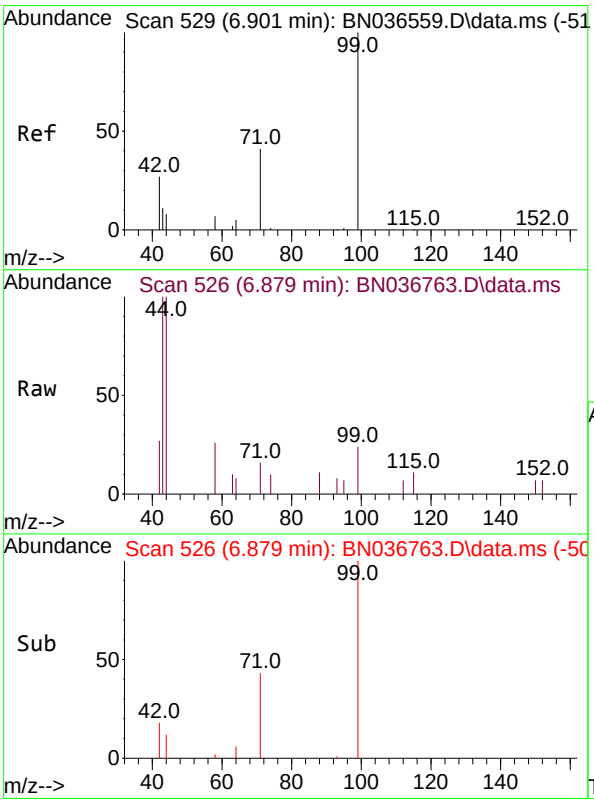
#4
2-Fluorophenol
Concen: 0.167 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:112 Resp: 501

Ion	Ratio	Lower	Upper
112	100		
64	68.7	53.1	79.7
63	44.3	31.8	47.8

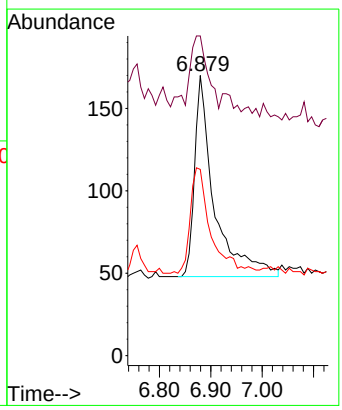


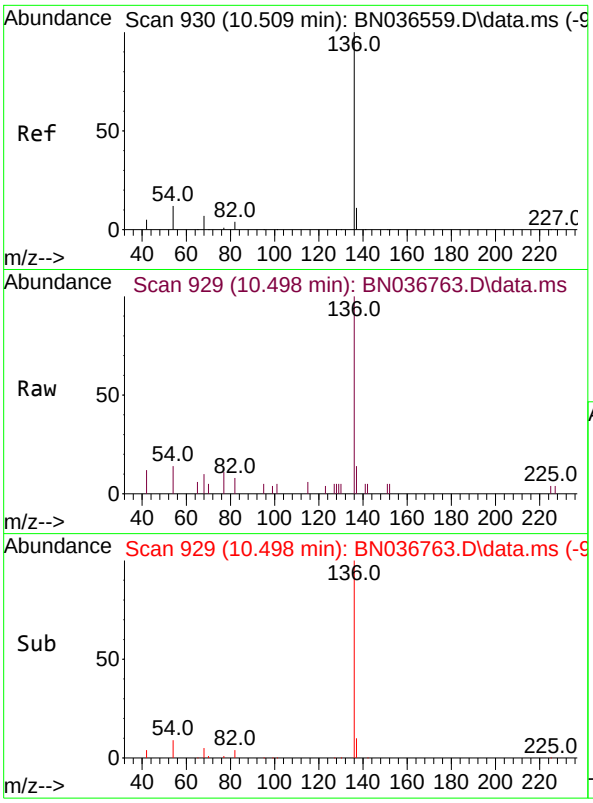


#5
Phenol-d6
Concen: 0.088 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion: 99 Resp: 325

Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	54.2	34.1	51.1#



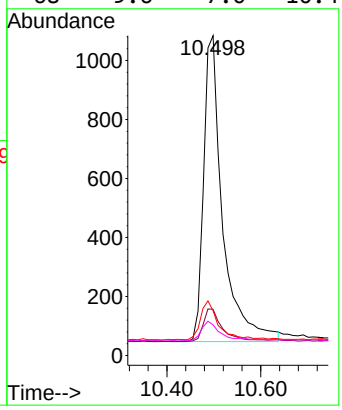


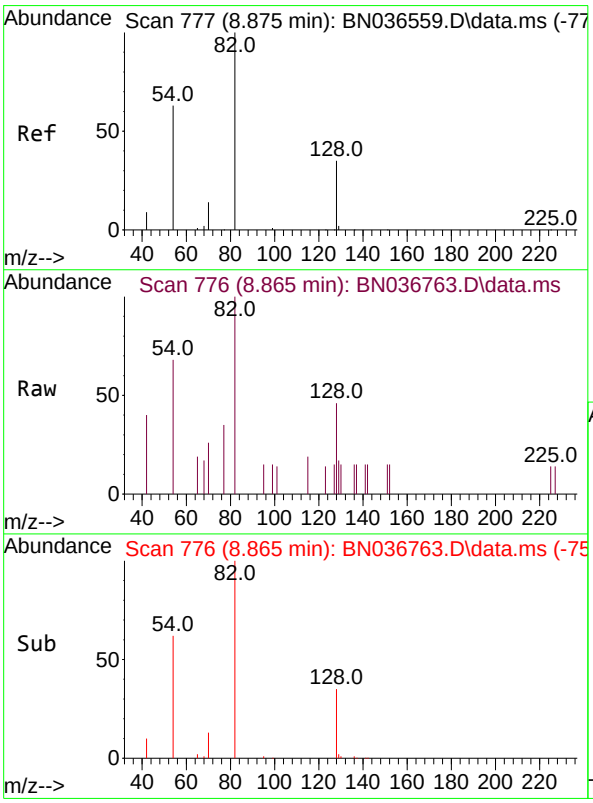
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:136 Resp: 2922

Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.3	15.5
54	14.0	11.5	17.3
68	9.6	7.0	10.4

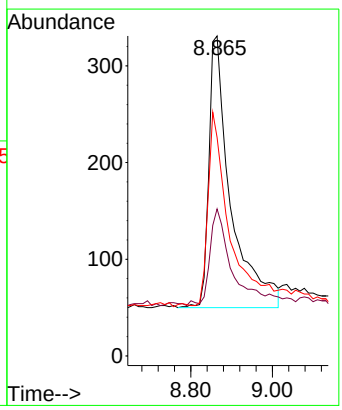


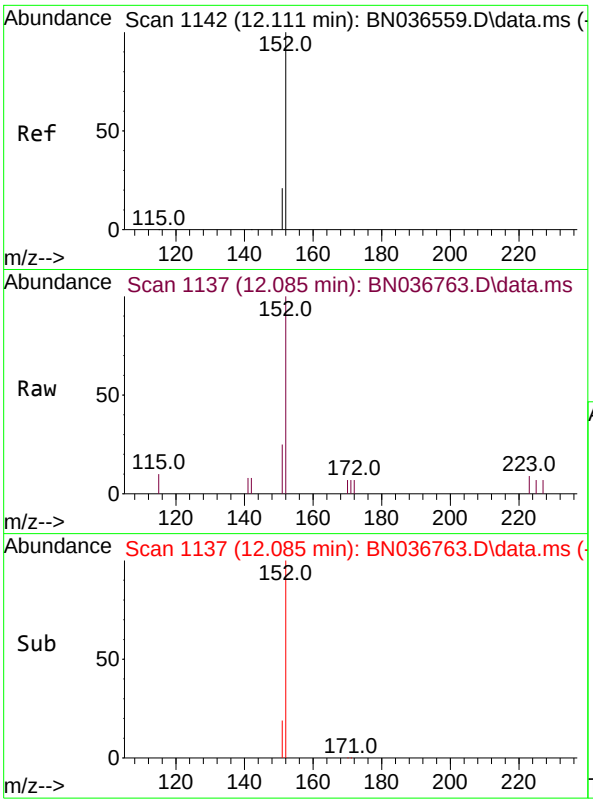


#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion: 82 Resp: 1043

Ion	Ratio	Lower	Upper
82	100		
128	45.9	30.6	45.8#
54	68.3	52.2	78.4



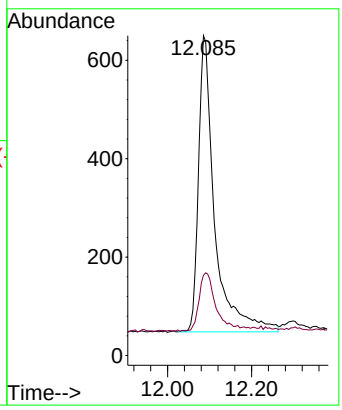


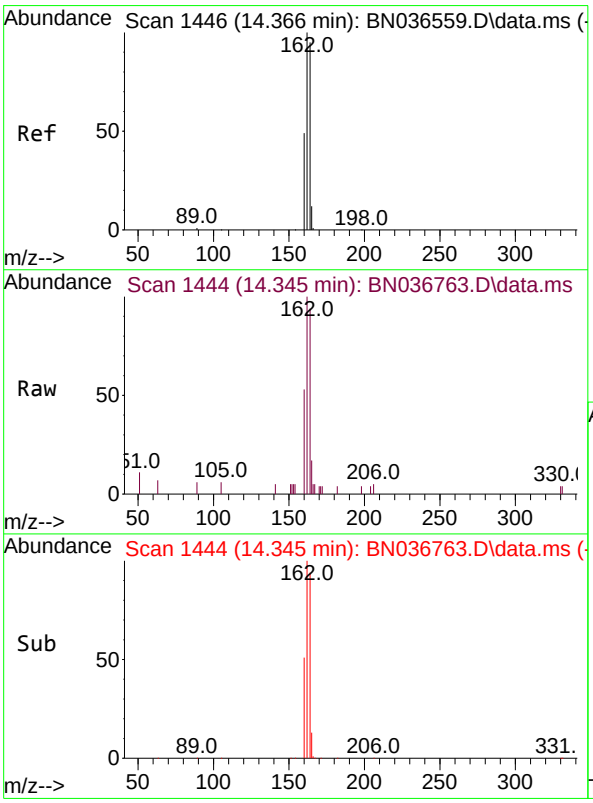
#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 12.085 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:152 Resp: 1603

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

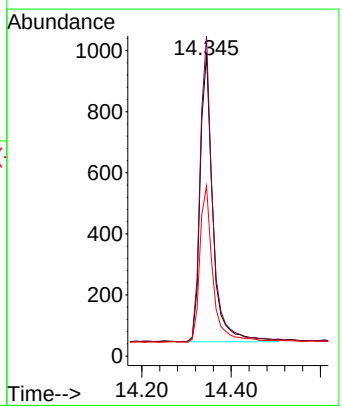


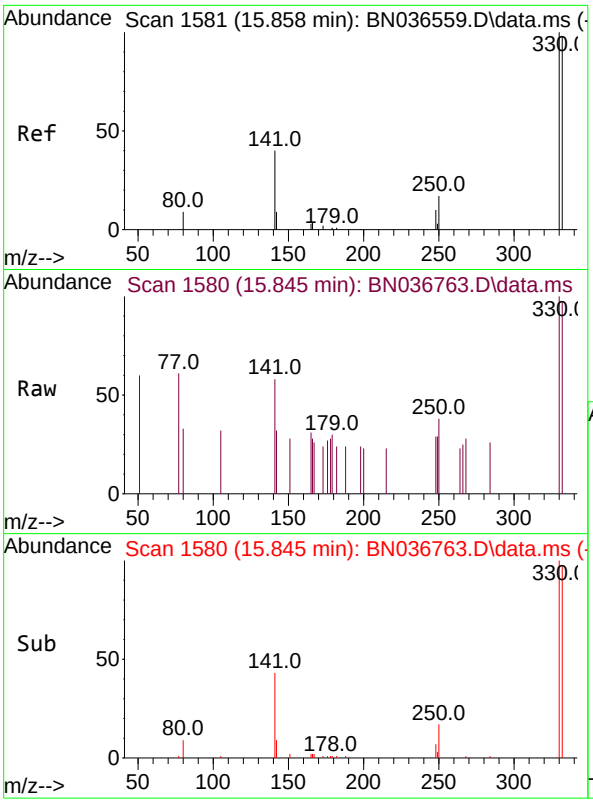


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:164 Resp: 1856

Ion	Ratio	Lower	Upper
164	100		
162	106.2	84.2	126.2
160	56.4	42.2	63.2



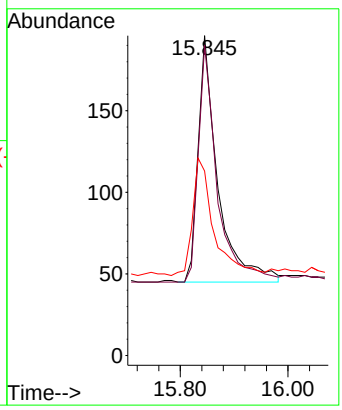


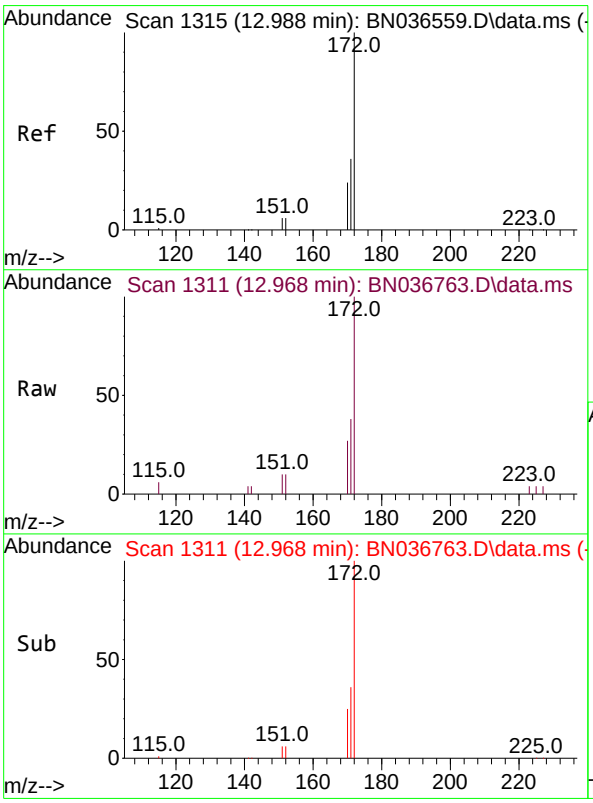
#14
2,4,6-Tribromophenol
Concen: 0.457 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:330 Resp: 385

Ion	Ratio	Lower	Upper
330	100		
332	92.5	75.2	112.8
141	51.2	43.4	65.2

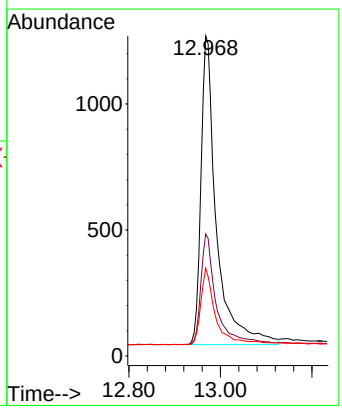


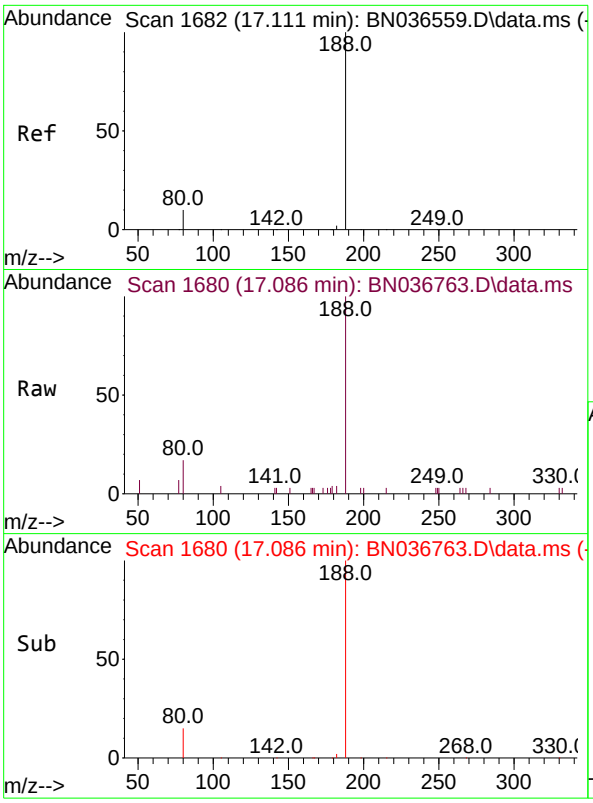


#15
2-Fluorobiphenyl
Concen: 0.341 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:172 Resp: 3677

Ion	Ratio	Lower	Upper
172	100		
171	38.1	29.5	44.3
170	27.4	20.2	30.4



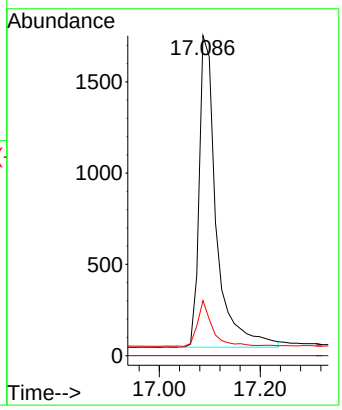


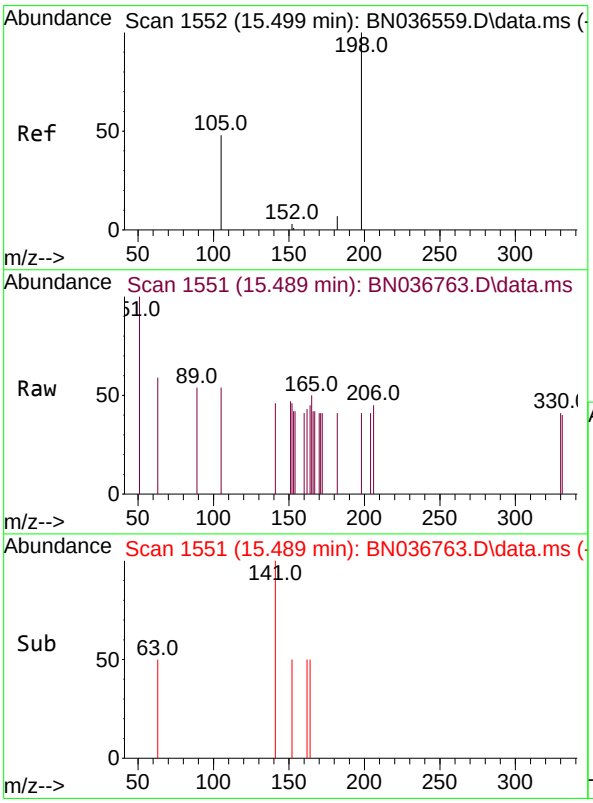
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:188 Resp: 4045

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	17.2	8.8	13.2#

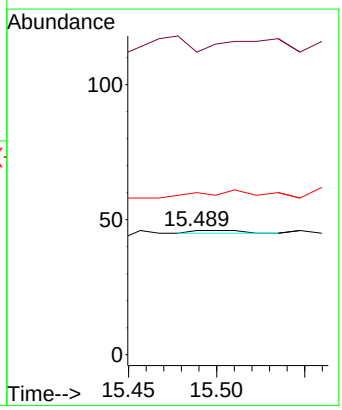


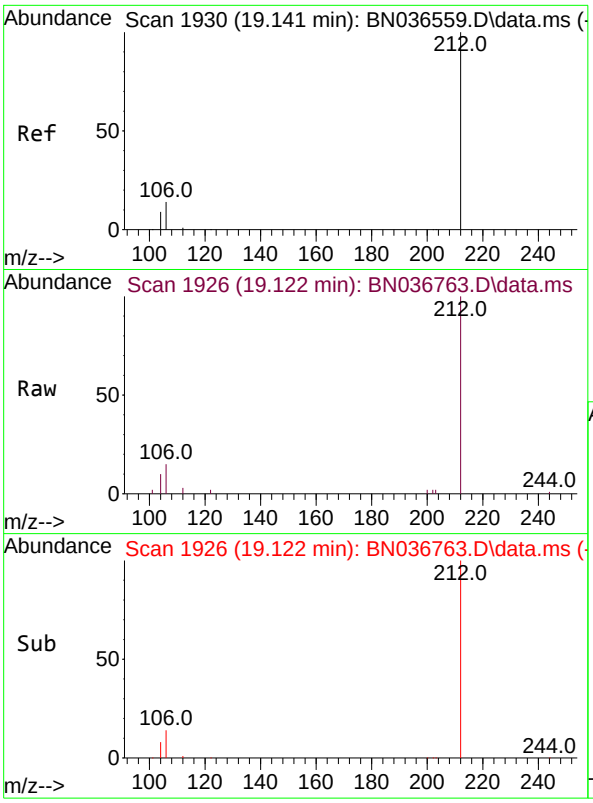


#20
4,6-Dinitro-2-methylphenol
Concen: 0.148 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:198 Resp: 2

Ion	Ratio	Lower	Upper
198	100		
51	243.5	107.9	161.9#
105	130.4	56.2	84.2#



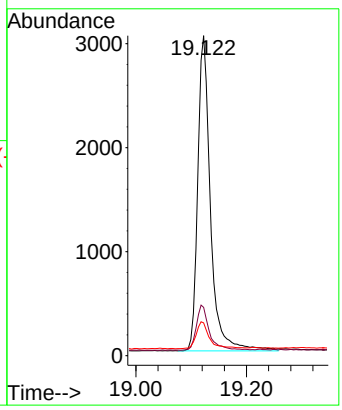


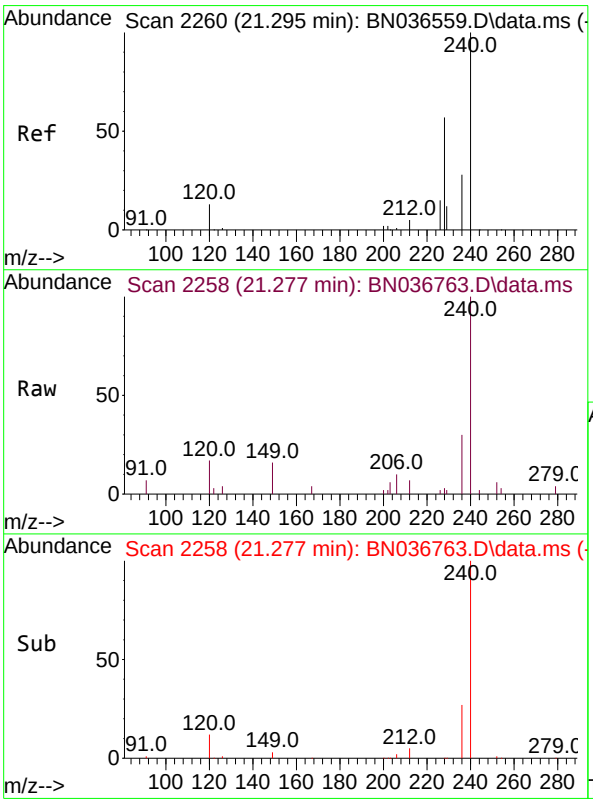
#27
Fluoranthene-d10
Concen: 0.468 ng
RT: 19.122 min Scan# 1
Delta R.T. -0.018 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:212 Resp: 4853

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.8	17.6
104	9.0	7.3	10.9

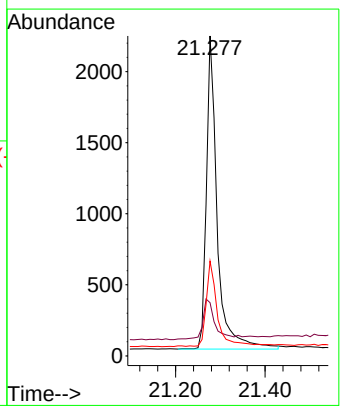


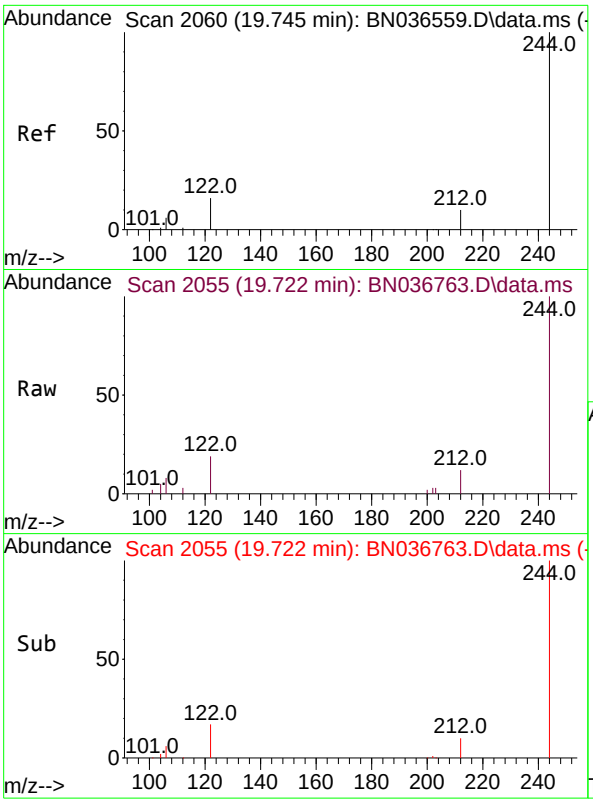


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:240 Resp: 3693

Ion	Ratio	Lower	Upper
240	100		
120	16.6	14.6	22.0
236	29.6	24.1	36.1



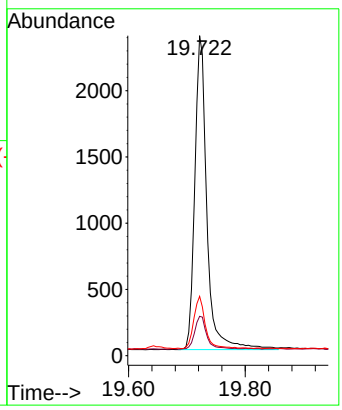


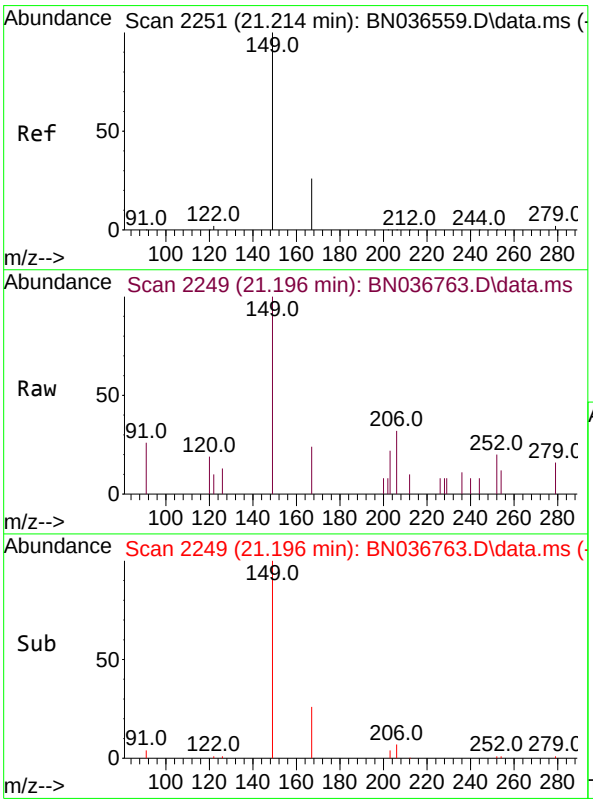
#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:244 Resp: 3401

Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.6	14.4
122	18.6	13.9	20.9

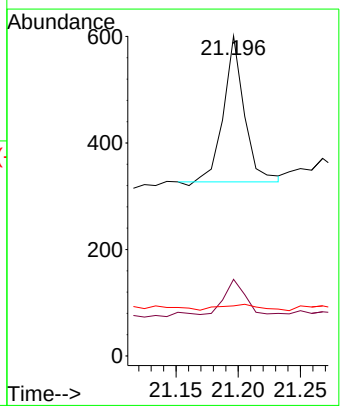


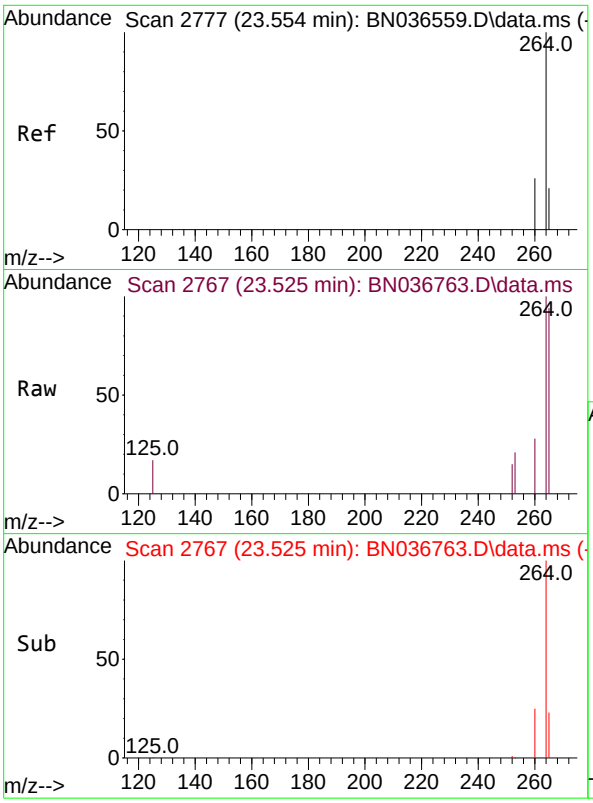


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.035 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Tgt Ion:149 Resp: 316

Ion	Ratio	Lower	Upper
149	100		
167	30.4	20.7	31.1
279	8.5	3.6	5.4#



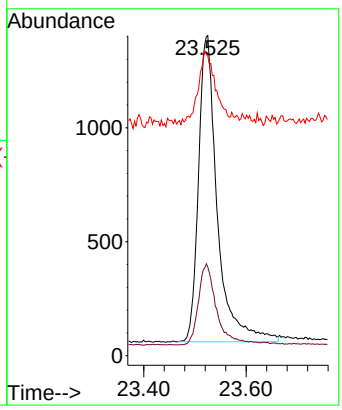


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036763.D
Acq: 28 Mar 2025 07:22

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250319

Tgt Ion:264 Resp: 3430

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	93.7	88.1	132.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036766.D
Acq On : 28 Mar 2025 10:22
Operator : RC/JU
Sample : Q1608-12MS
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Quant Time: Mar 28 10:50:15 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	7.696	152	1719	0.400	ng		-0.03
7) Naphthalene-d8	10.488	136	4220	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	2547	0.400	ng		-0.03
19) Phenanthrene-d10	17.087	188	5464	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	5031	0.400	ng		#-0.02
35) Perylene-d12	23.519	264	4284	0.400	ng		#-0.03
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	762	0.190	ng		-0.02
5) Phenol-d6	6.872	99	581	0.117	ng		-0.03
8) Nitrobenzene-d5	8.843	82	1664	0.362	ng		-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2278	0.363	ng		-0.04
14) 2,4,6-Tribromophenol	15.833	330	594	0.514	ng		-0.02
15) 2-Fluorobiphenyl	12.958	172	5179	0.350	ng		-0.03
27) Fluoranthene-d10	19.118	212	6867	0.490	ng		-0.02
31) Terphenyl-d14	19.722	244	4983	0.413	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	9556	5.011	ng		95
3) n-Nitrosodimethylamine	3.536	42	664	0.172	ng	#	94
6) bis(2-Chloroethyl)ether	7.125	93	2021	0.395	ng		95
9) Naphthalene	10.530	128	4582	0.369	ng		99
10) Hexachlorobutadiene	10.819	225	725	0.248	ng	#	97
12) 2-Methylnaphthalene	12.151	142	3013	0.381	ng		99
16) Acenaphthylene	14.056	152	5131	0.427	ng		100
17) Acenaphthene	14.398	154	3283	0.417	ng		99
18) Fluorene	15.393	166	4578	0.430	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	535	0.528	ng	#	62
21) 4-Bromophenyl-phenylether	16.280	248	1515	0.443	ng		92
22) Hexachlorobenzene	16.391	284	1585	0.384	ng		97
23) Atrazine	16.553	200	1480	0.539	ng		96
24) Pentachlorophenol	16.739	266	1640	0.870	ng		99
25) Phenanthrene	17.124	178	8119	0.495	ng		100
26) Anthracene	17.211	178	7262	0.491	ng		99
28) Fluoranthene	19.150	202	10130	0.550	ng	#	96
30) Pyrene	19.513	202	10685	0.434	ng		100
32) Benzo(a)anthracene	21.259	228	8271	0.473	ng		99
33) Chrysene	21.313	228	9301	0.487	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	7517	0.603	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	7387	0.478	ng		98
37) Benzo(b)fluoranthene	22.844	252	7695	0.494	ng		93
38) Benzo(k)fluoranthene	22.844	252	7695	0.470	ng		92
39) Benzo(a)pyrene	23.423	252	6740	0.513	ng	#	90
40) Dibenzo(a,h)anthracene	25.803	278	5802	0.482	ng		92
41) Benzo(g,h,i)perylene	26.475	276	5865	0.426	ng		96

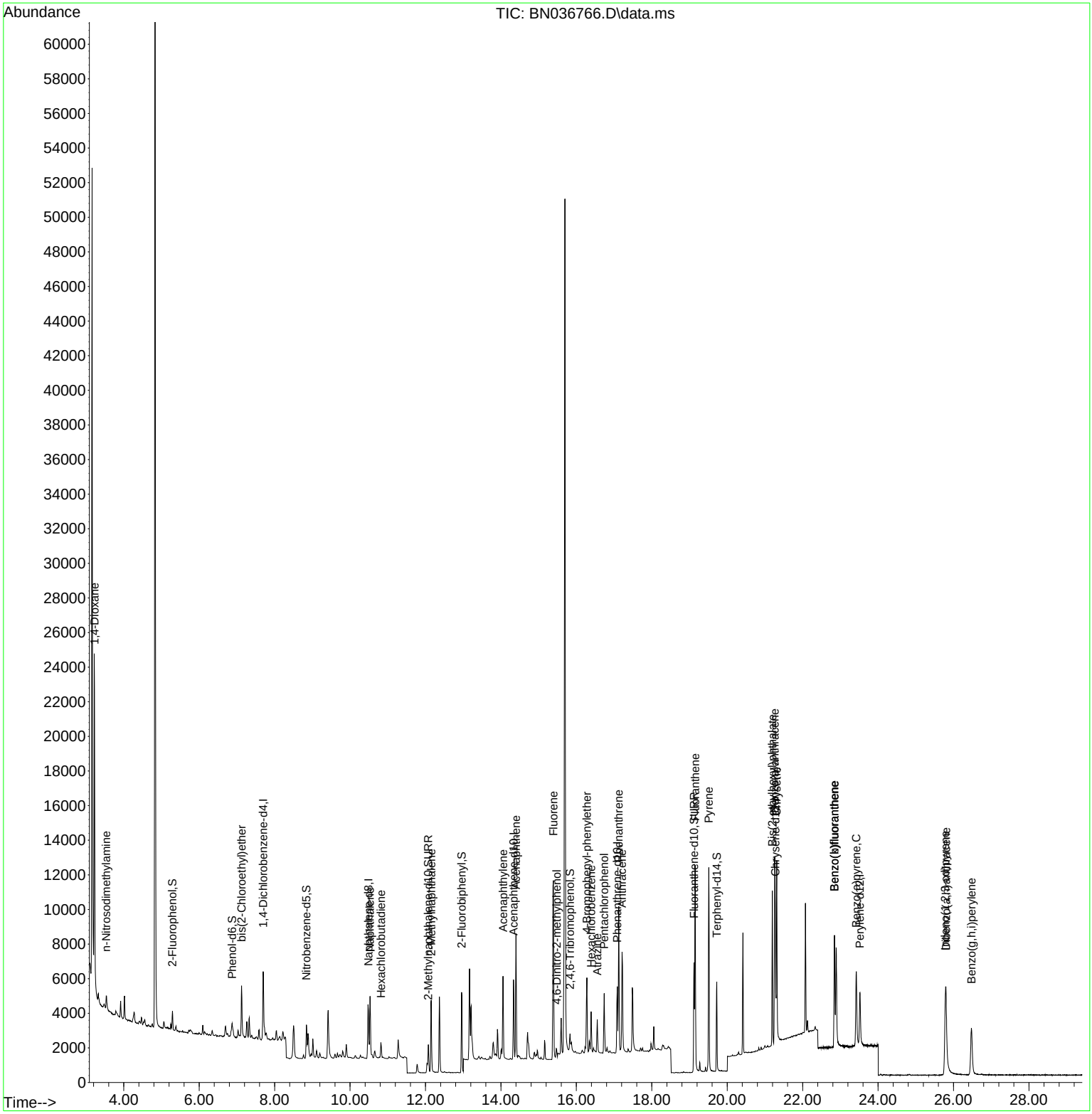
(#) = qualifier out of range (m) = manual integration (+) = signals summed

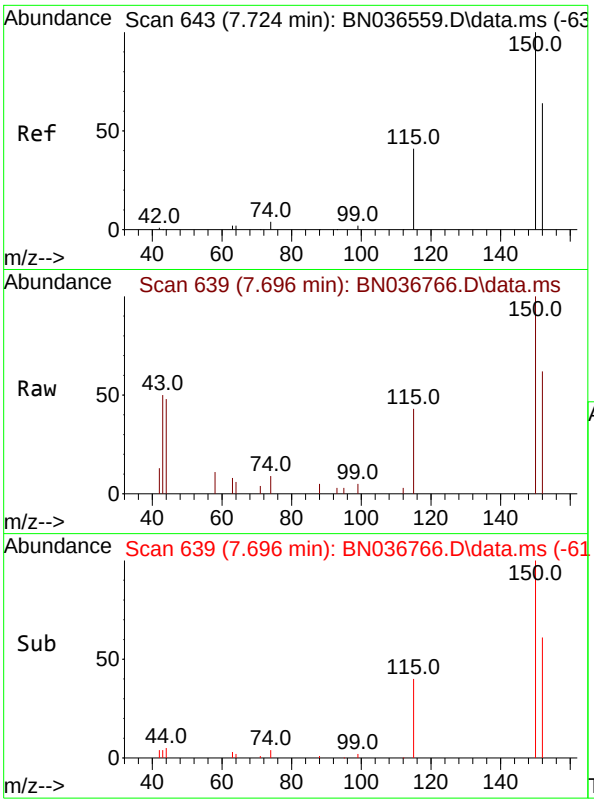
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036766.D
Acq On : 28 Mar 2025 10:22
Operator : RC/JU
Sample : Q1608-12MS
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Quant Time: Mar 28 10:50:15 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



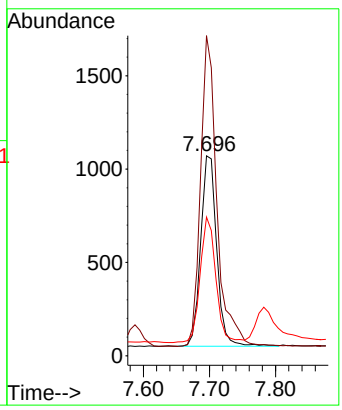


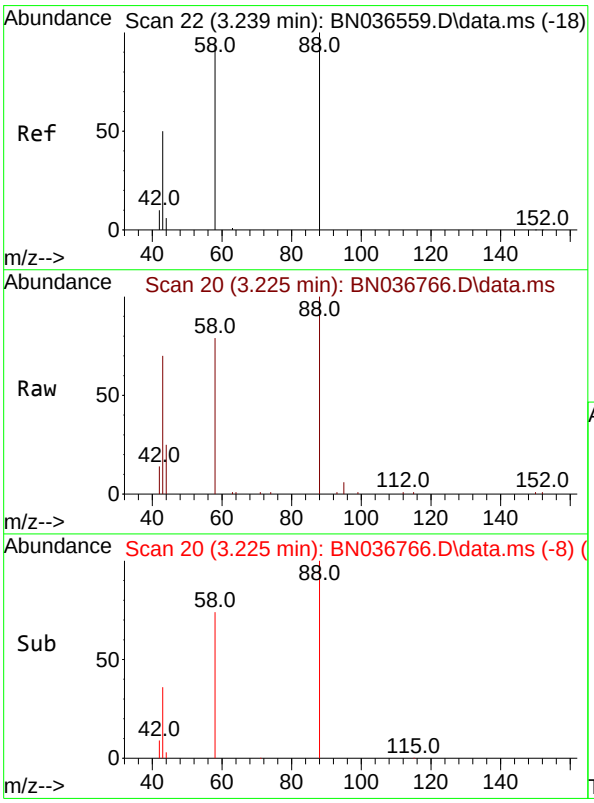
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.028 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:152 Resp: 1719

Ion	Ratio	Lower	Upper
152	100		
150	160.1	123.7	185.5
115	69.4	54.3	81.5

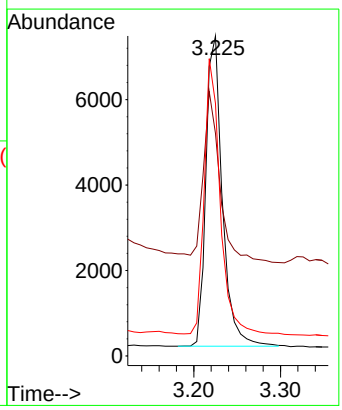


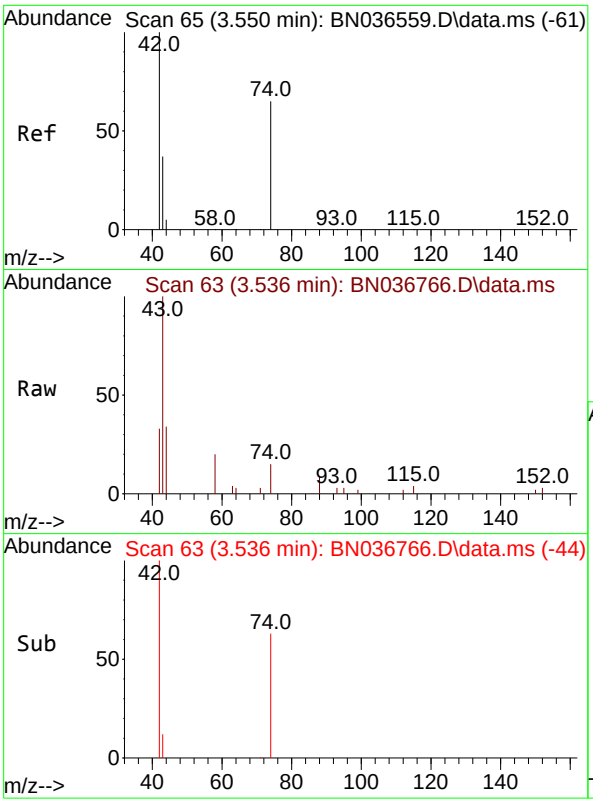


#2
1,4-Dioxane
Concen: 5.011 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion: 88 Resp: 9556

Ion	Ratio	Lower	Upper
88	100		
43	55.2	37.8	56.8
58	85.3	67.4	101.2



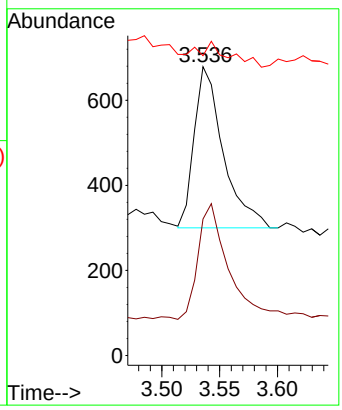


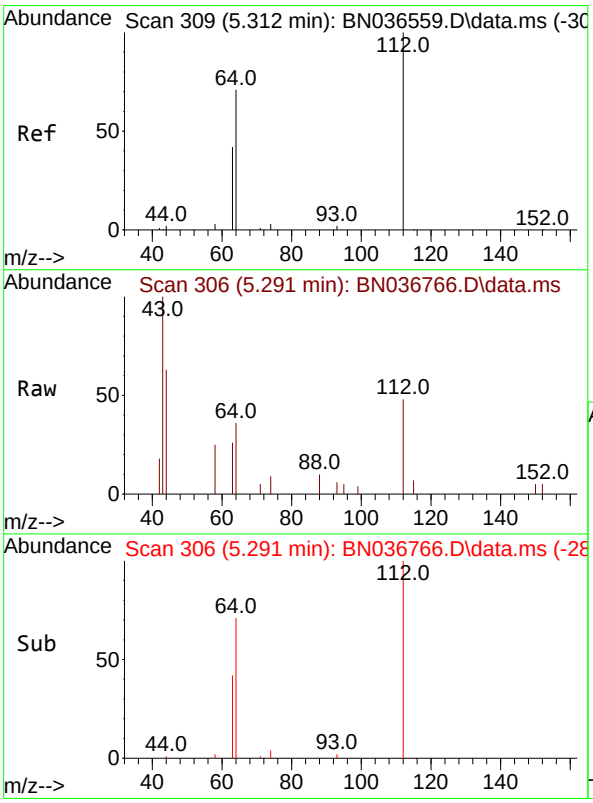
#3
n-Nitrosodimethylamine
Concen: 0.172 ng
RT: 3.536 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion: 42 Resp: 664

Ion	Ratio	Lower	Upper
42	100		
74	79.5	60.6	90.8
44	16.6	6.3	9.5#

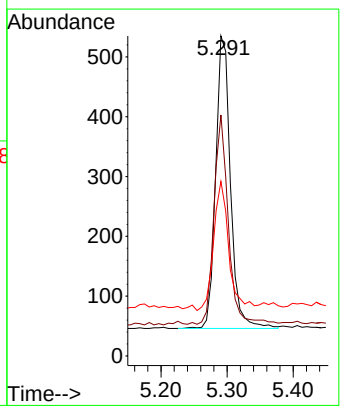


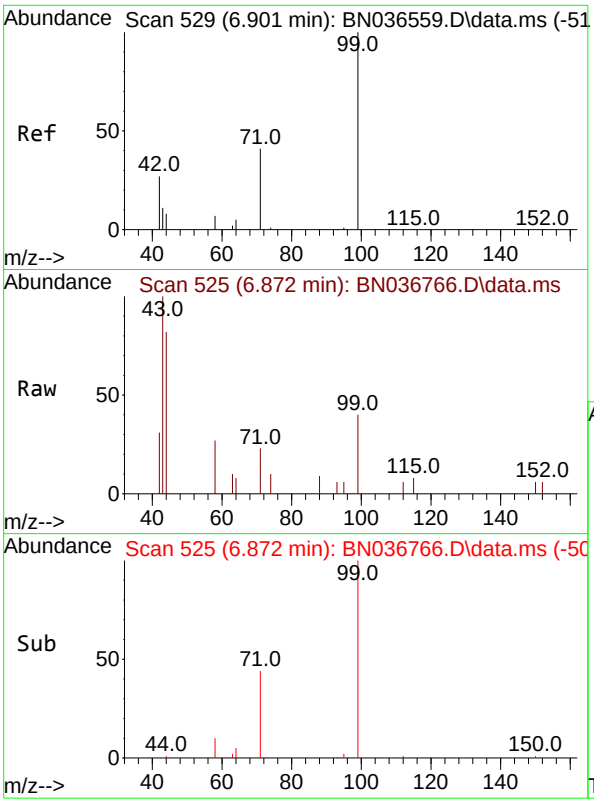


#4
2-Fluorophenol
Concen: 0.190 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:112 Resp: 762

Ion	Ratio	Lower	Upper
112	100		
64	69.2	53.1	79.7
63	45.8	31.8	47.8



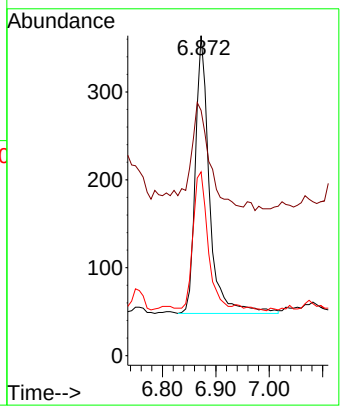


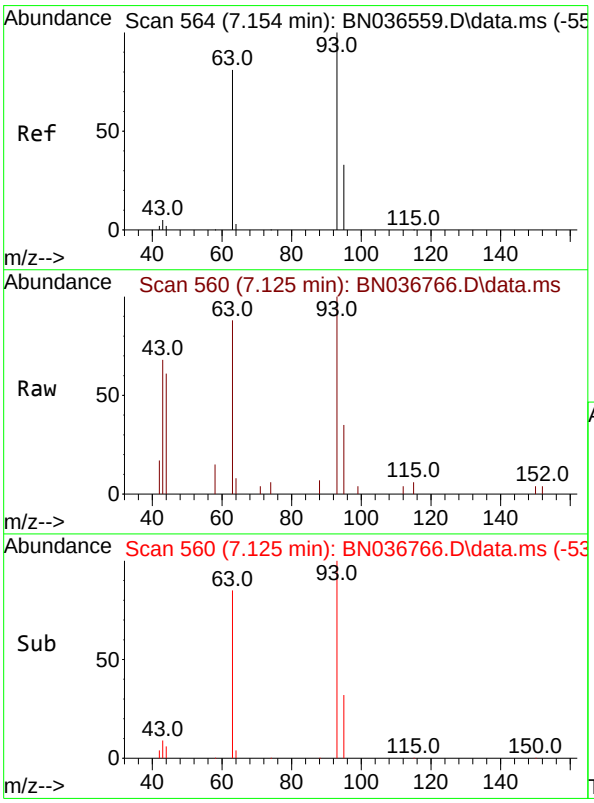
#5
Phenol-d6
Concen: 0.117 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion: 99 Resp: 581

Ion	Ratio	Lower	Upper
99	100		
42	46.8	26.5	39.7#
71	50.8	34.1	51.1

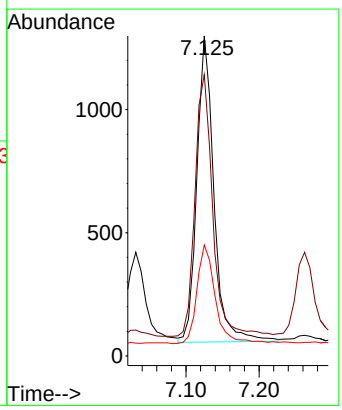


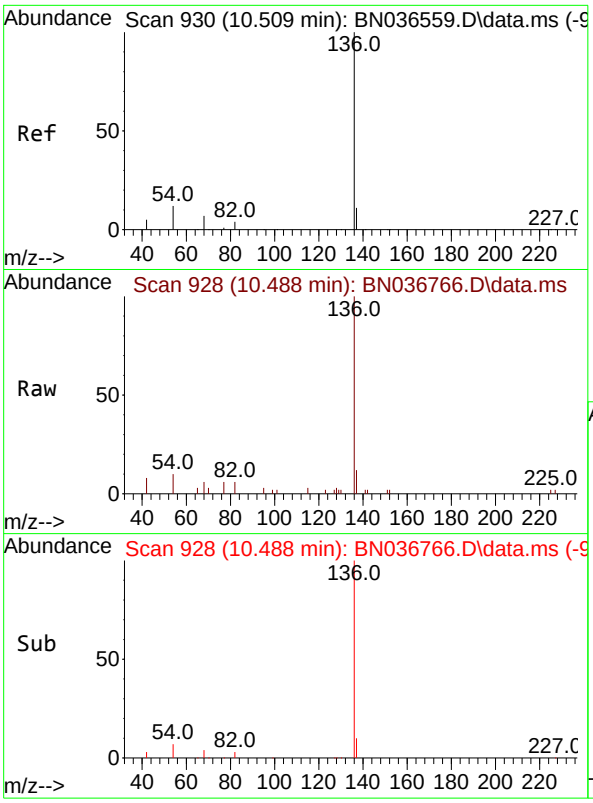


#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion: 93 Resp: 2021

Ion	Ratio	Lower	Upper
93	100		
63	88.2	67.7	101.5
95	35.3	25.6	38.4



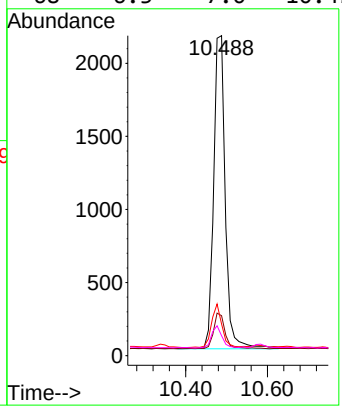


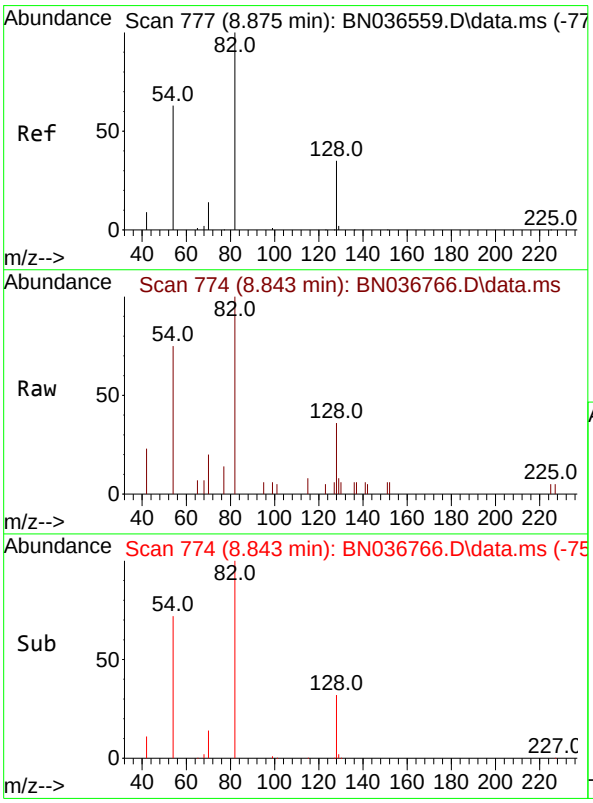
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:136 Resp: 4220

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	9.9	11.5	17.3#
68	6.3	7.0	10.4#

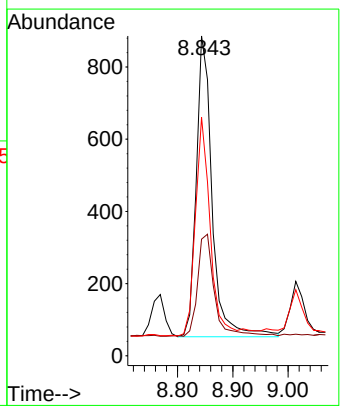


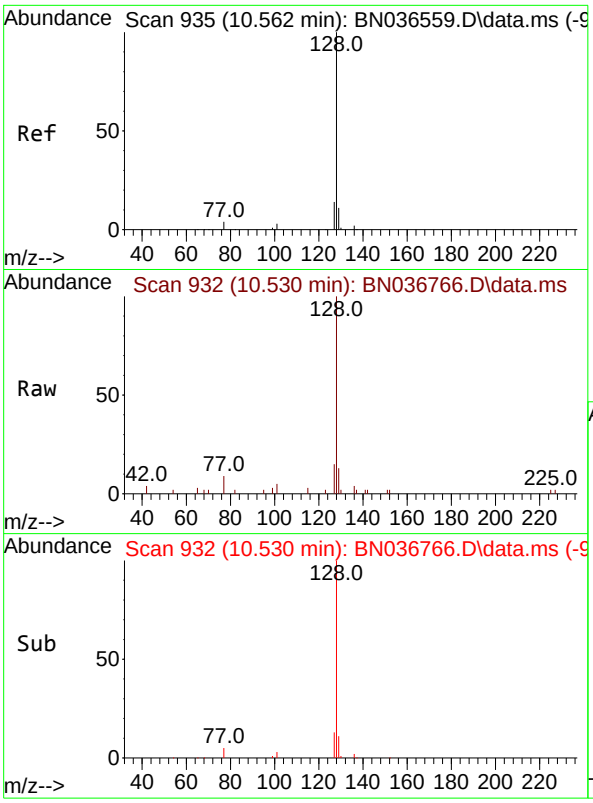


#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion: 82 Resp: 1664

Ion	Ratio	Lower	Upper
82	100		
128	36.5	30.6	45.8
54	74.6	52.2	78.4



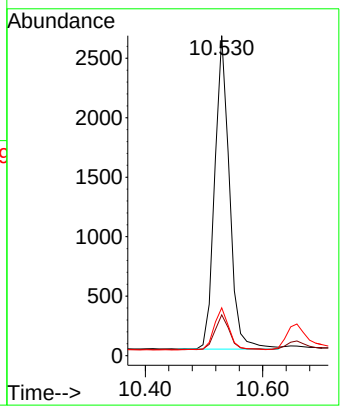


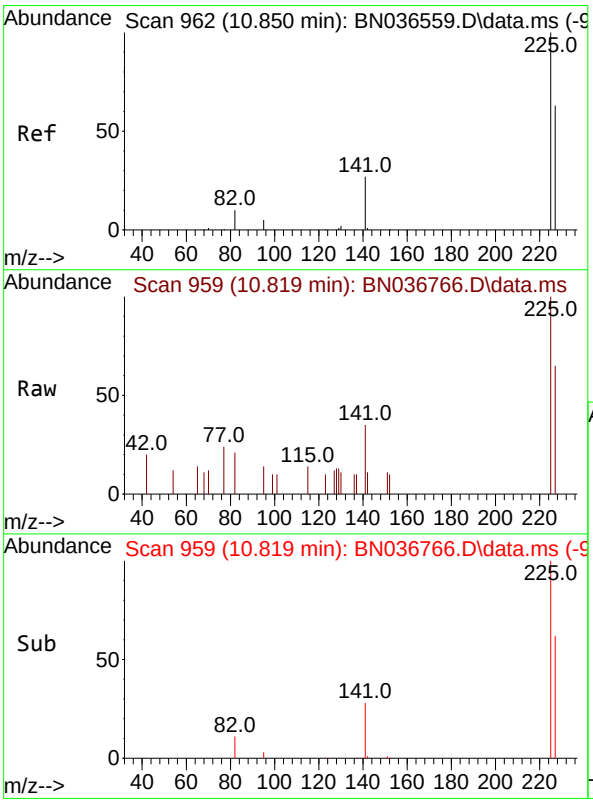
#9
Naphthalene
Concen: 0.369 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:128 Resp: 4582

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	14.9	11.8	17.8

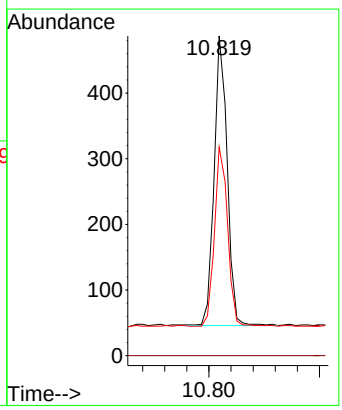


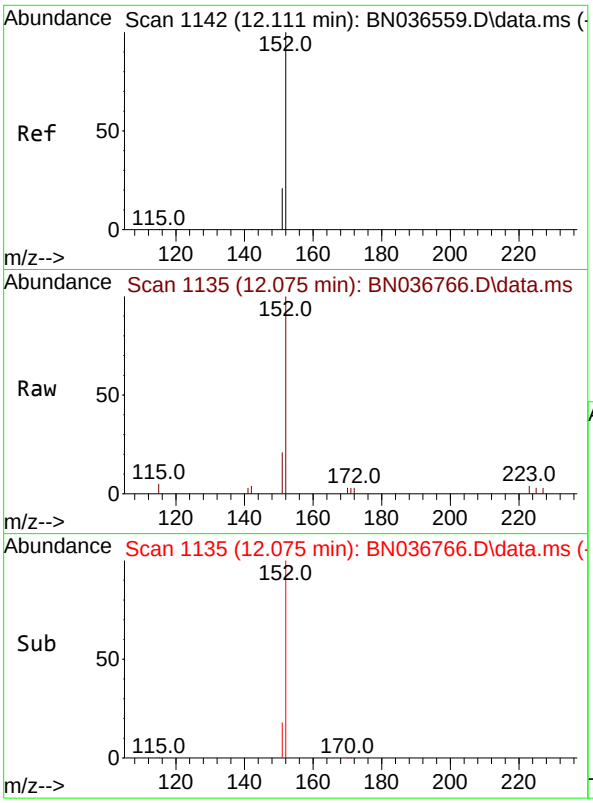


#10
Hexachlorobutadiene
Concen: 0.248 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:225 Resp: 725

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.1	51.8	77.8



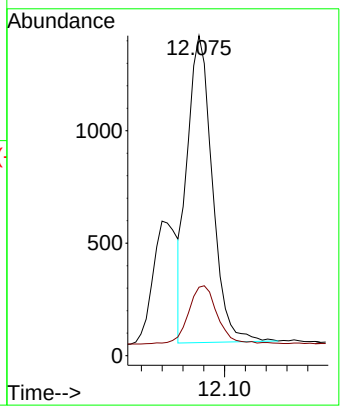


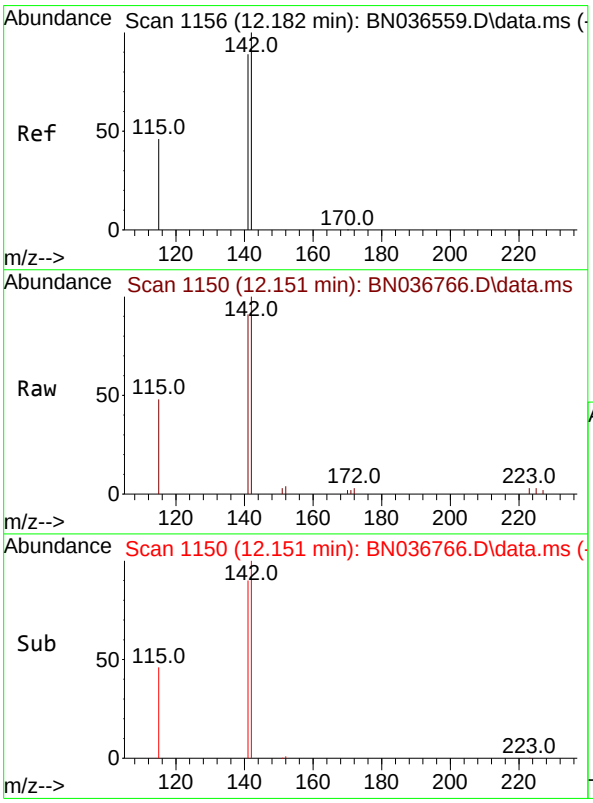
#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:152 Resp: 2278

Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.0	25.6

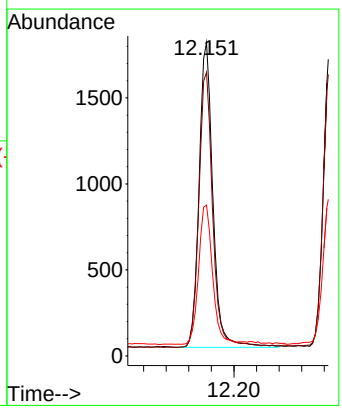


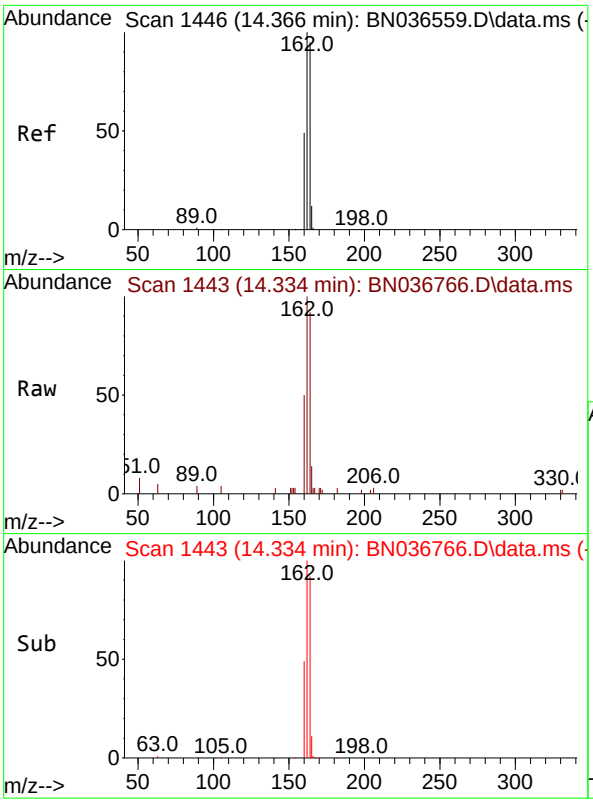


#12
2-Methylnaphthalene
Concen: 0.381 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:142 Resp: 3013

Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.7	107.5
115	48.1	38.3	57.5



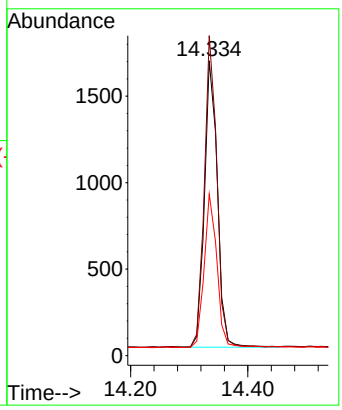


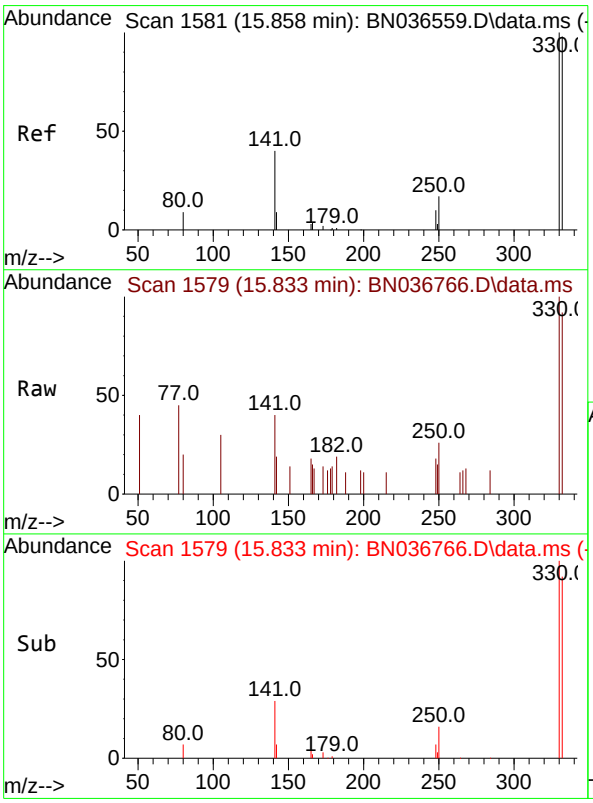
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:164 Resp: 2547

Ion	Ratio	Lower	Upper
164	100		
162	108.5	84.2	126.2
160	54.8	42.2	63.2

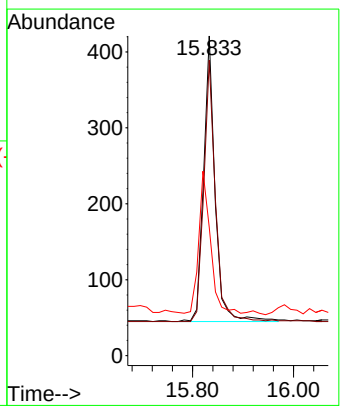


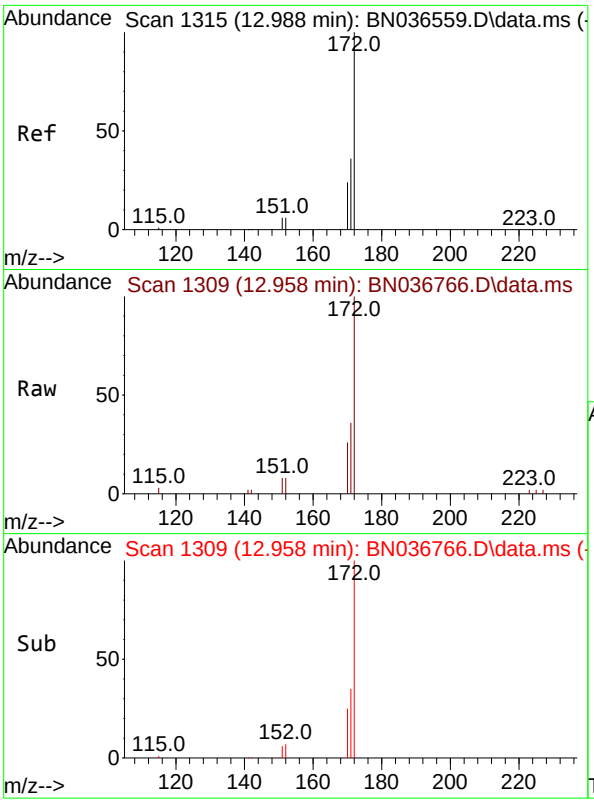


#14
2,4,6-Tribromophenol
Concen: 0.514 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:330 Resp: 594

Ion	Ratio	Lower	Upper
330	100		
332	92.9	75.2	112.8
141	50.3	43.4	65.2



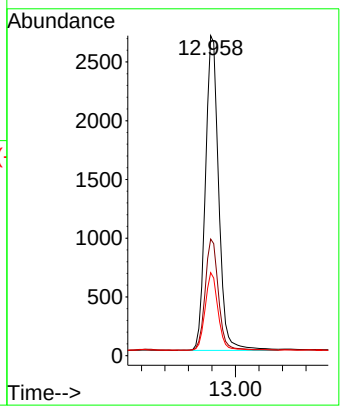


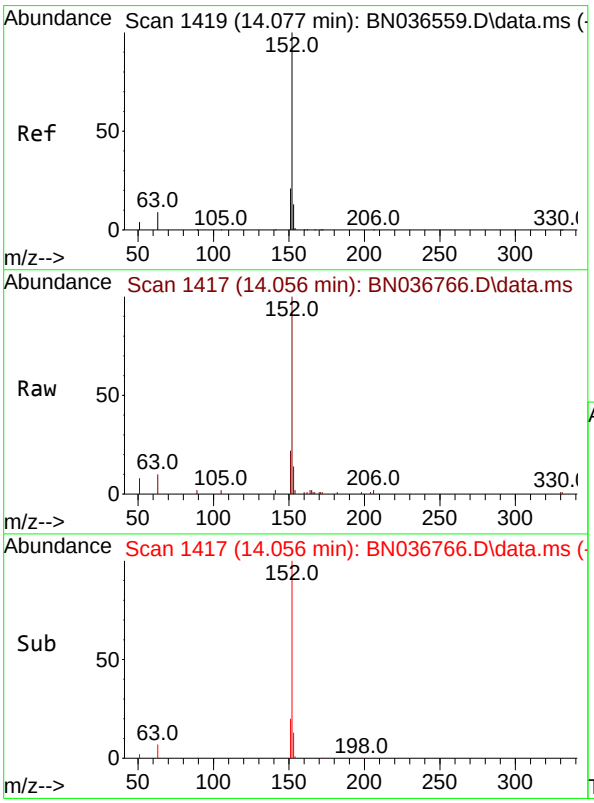
#15
2-Fluorobiphenyl
Concen: 0.350 ng
RT: 12.958 min Scan# 1
Delta R.T. -0.030 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:172 Resp: 5179

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	26.0	20.2	30.4

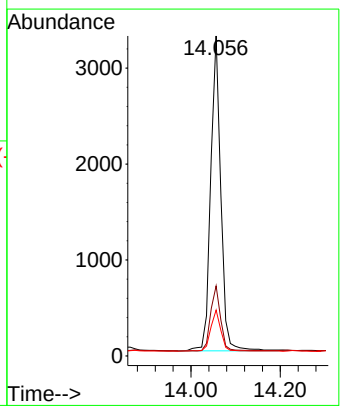


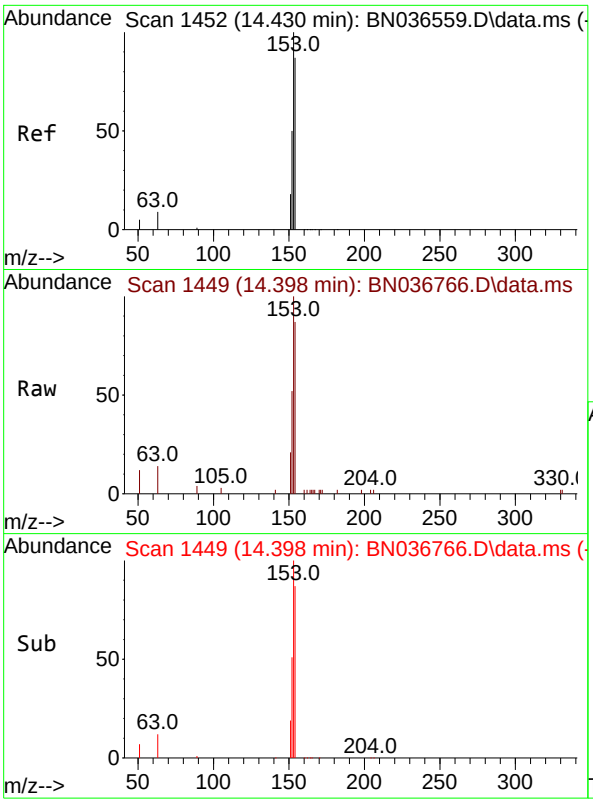


#16
Acenaphthylene
Concen: 0.427 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:152 Resp: 5131

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.1	10.6	15.8



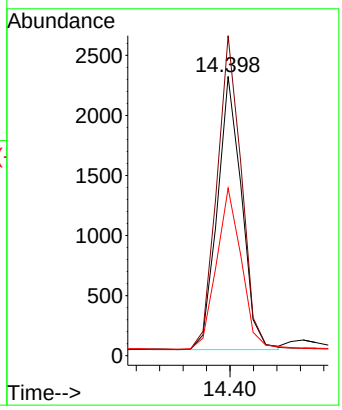


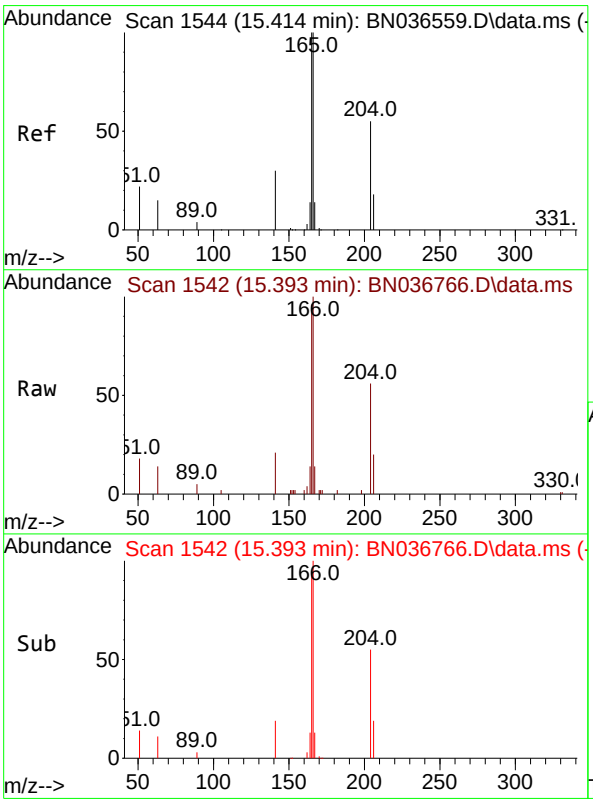
#17
Acenaphthene
Concen: 0.417 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:154 Resp: 3283

Ion	Ratio	Lower	Upper
154	100		
153	116.4	94.1	141.1
152	61.3	49.8	74.6

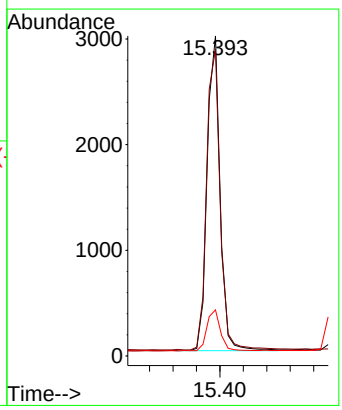


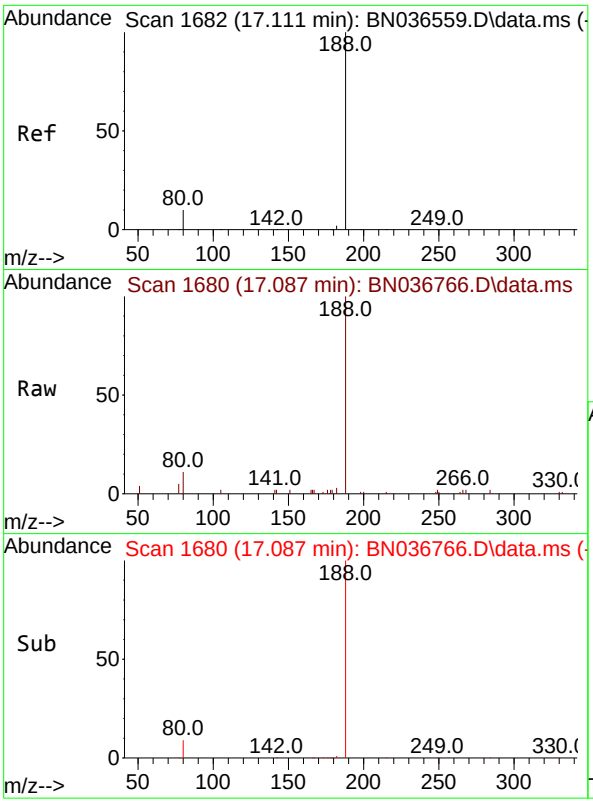


#18
Fluorene
Concen: 0.430 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:166 Resp: 4578

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.5	10.6	15.8



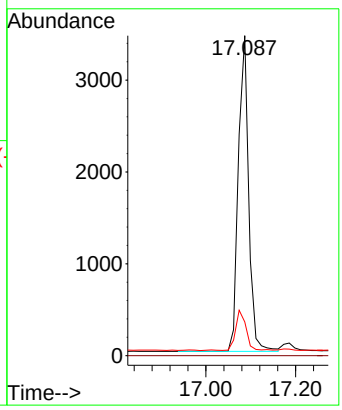


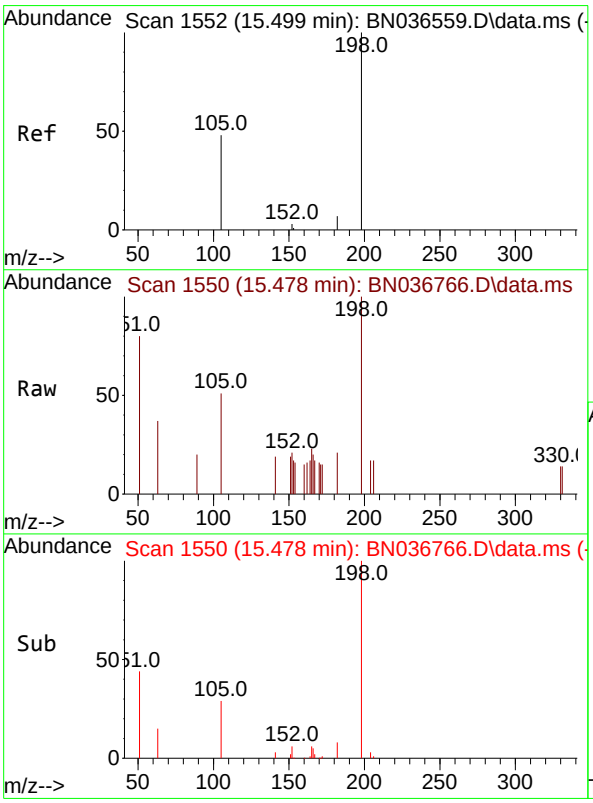
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:188 Resp: 5464

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	8.8	13.2

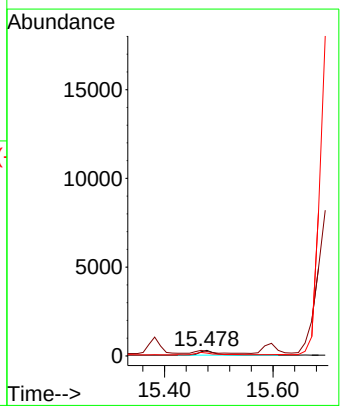


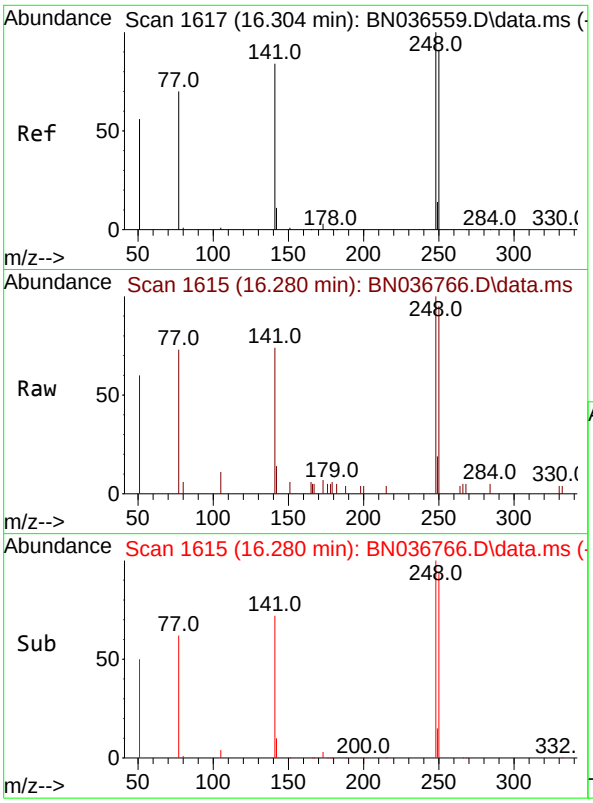


#20
4,6-Dinitro-2-methylphenol
Concen: 0.528 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:198 Resp: 535

Ion	Ratio	Lower	Upper
198	100		
51	80.1	107.9	161.9#
105	51.0	56.2	84.2#



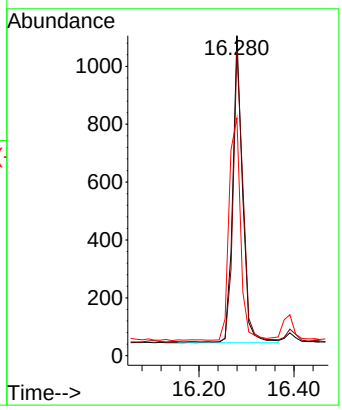


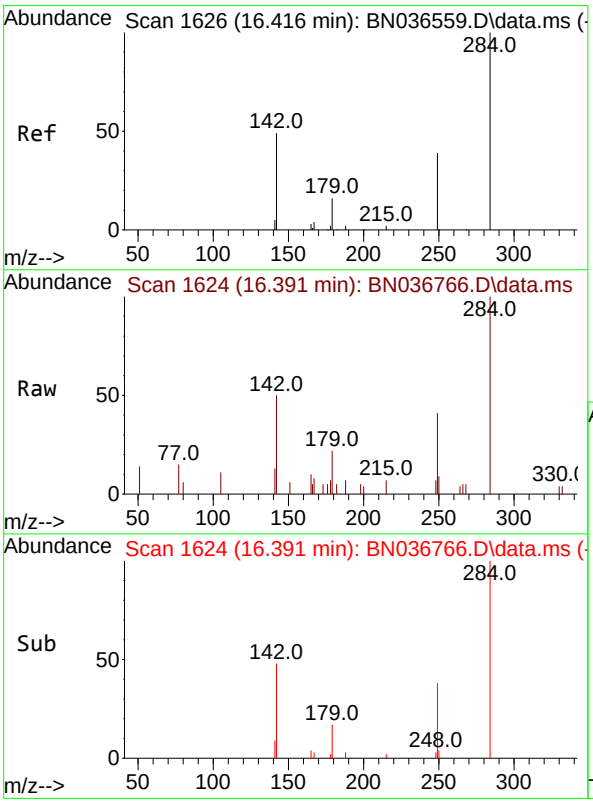
#21
4-Bromophenyl-phenylether
Concen: 0.443 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:248 Resp: 1515

Ion	Ratio	Lower	Upper
248	100		
250	95.2	73.0	109.6
141	74.2	68.6	103.0

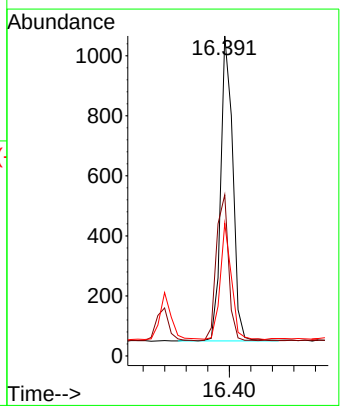


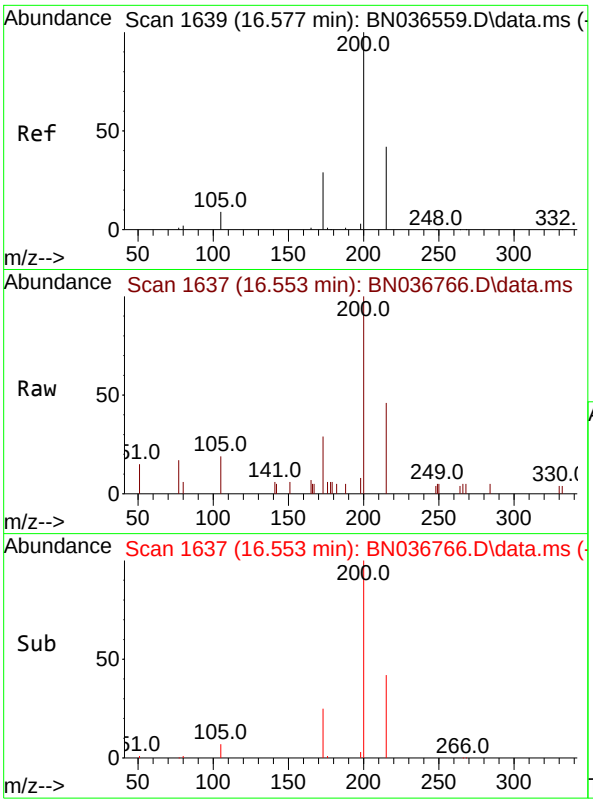


#22
Hexachlorobenzene
Concen: 0.384 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:284 Resp: 1585

Ion	Ratio	Lower	Upper
284	100		
142	49.1	37.0	55.4
249	35.3	28.1	42.1



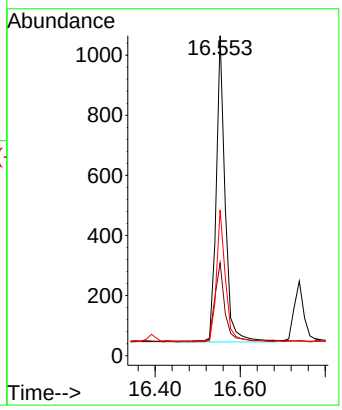


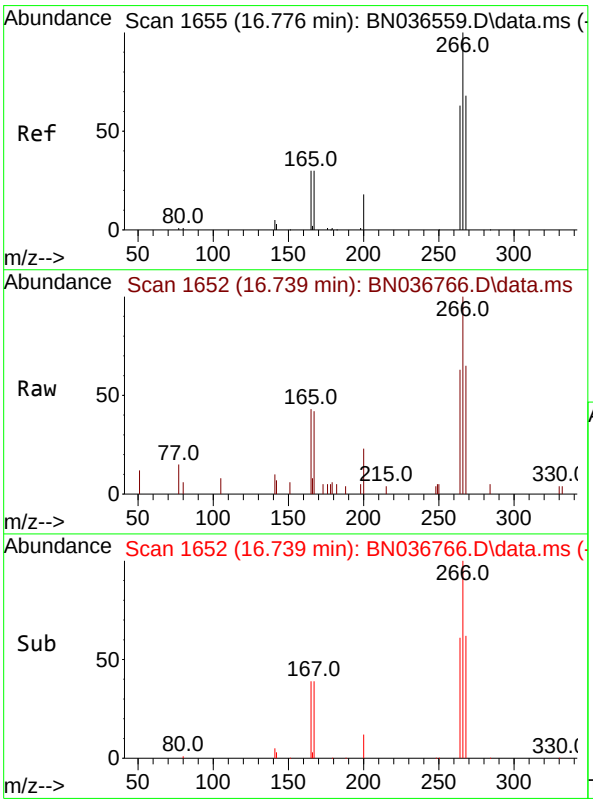
#23
Atrazine
Concen: 0.539 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:200 Resp: 1480

Ion	Ratio	Lower	Upper
200	100		
173	29.0	27.3	40.9
215	45.5	36.8	55.2

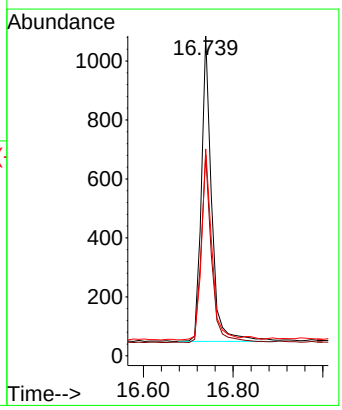


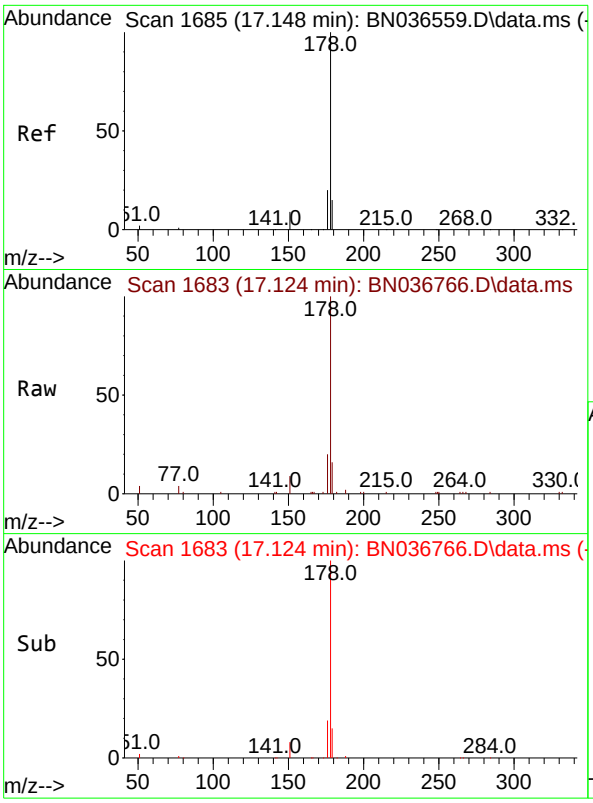


#24
Pentachlorophenol
Concen: 0.870 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:266 Resp: 1640

Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.6	74.4
268	62.0	50.9	76.3



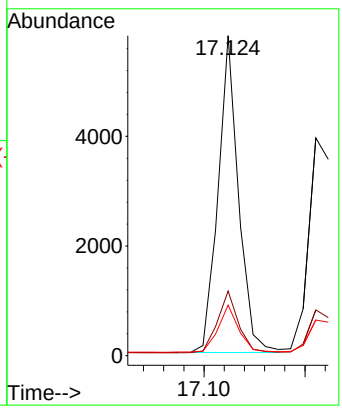


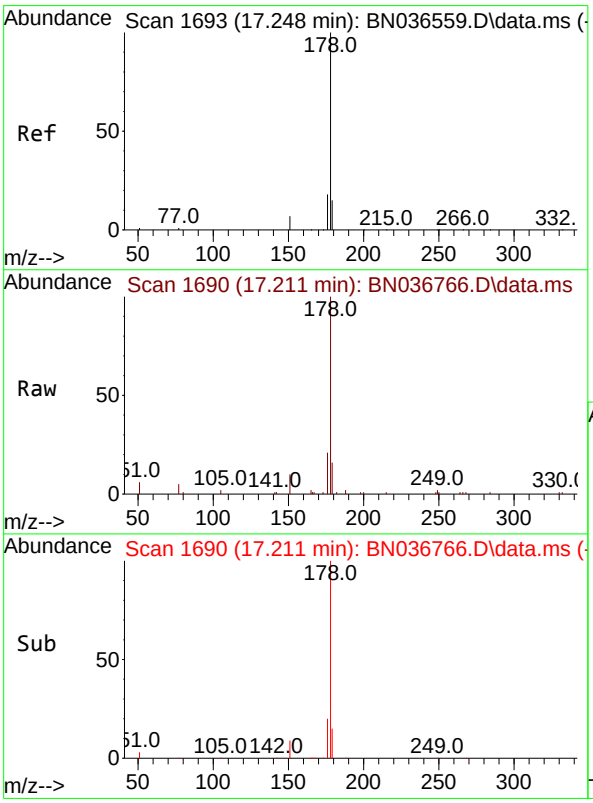
#25
Phenanthrene
Concen: 0.495 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:178 Resp: 8119

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.2	12.2	18.4

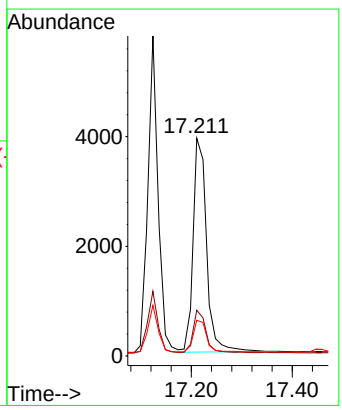


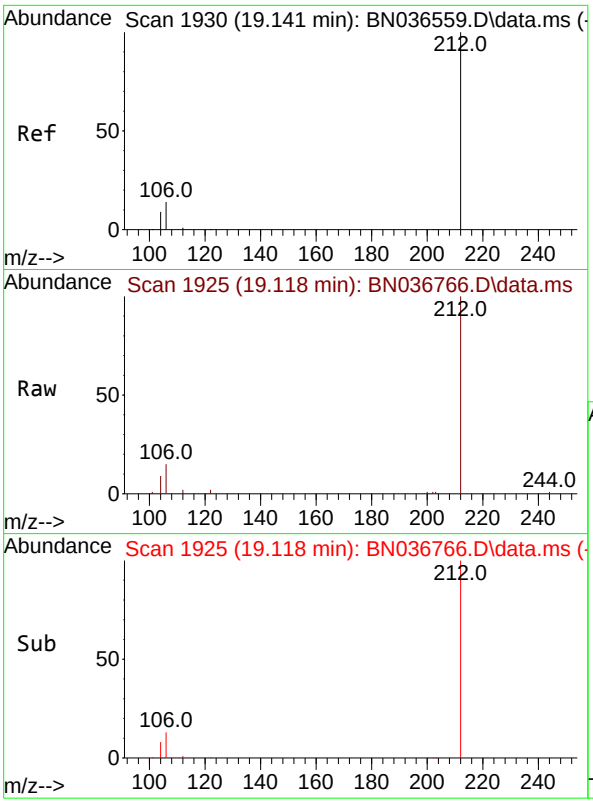


#26
Anthracene
Concen: 0.491 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:178 Resp: 7262

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	14.9	12.6	18.8



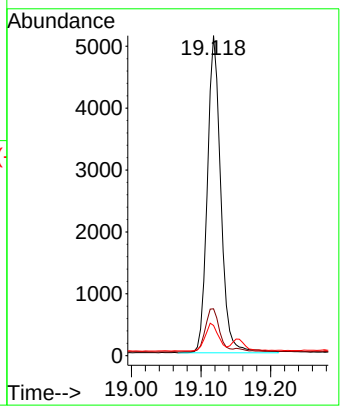


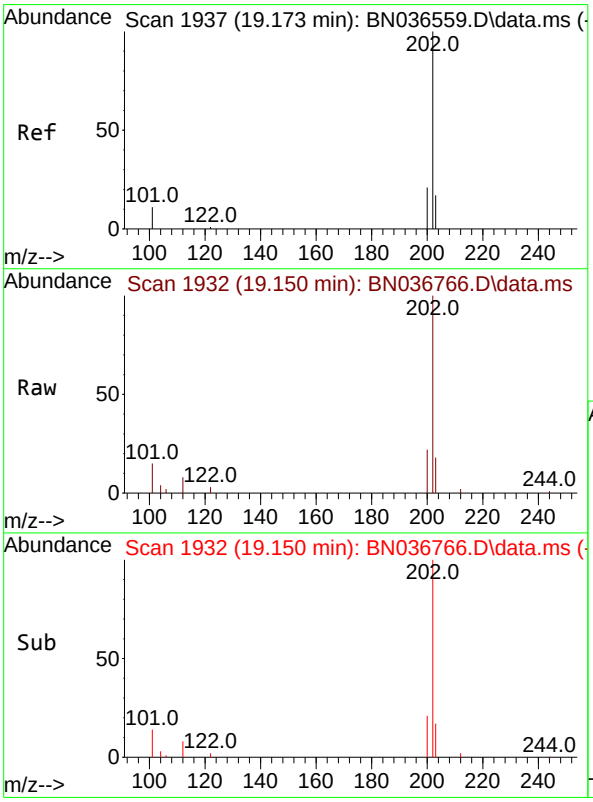
#27
Fluoranthene-d10
Concen: 0.490 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:212 Resp: 6867

Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.8	17.6
104	8.5	7.3	10.9

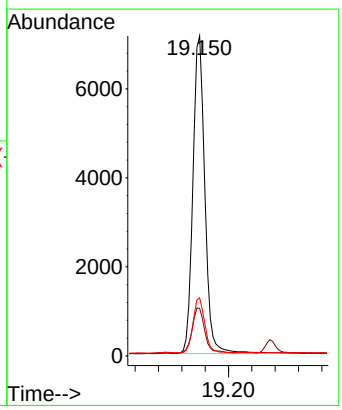


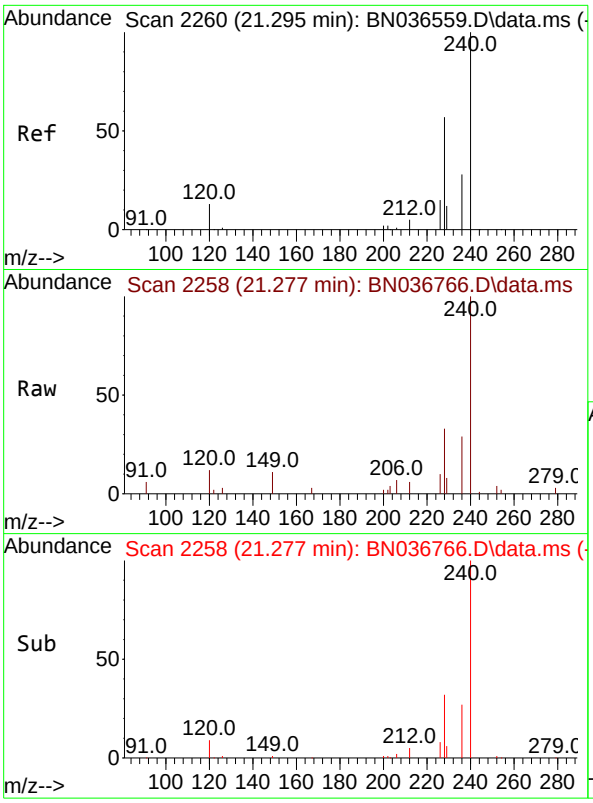


#28
Fluoranthene
Concen: 0.550 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:202 Resp: 10130

Ion	Ratio	Lower	Upper
202	100		
101	15.2	9.4	14.0#
203	17.1	13.5	20.3



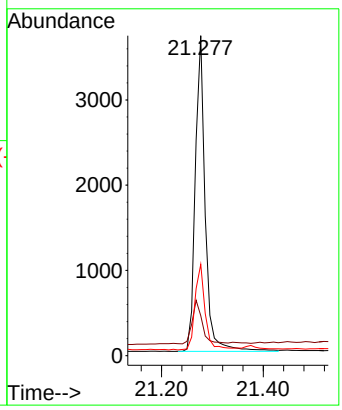


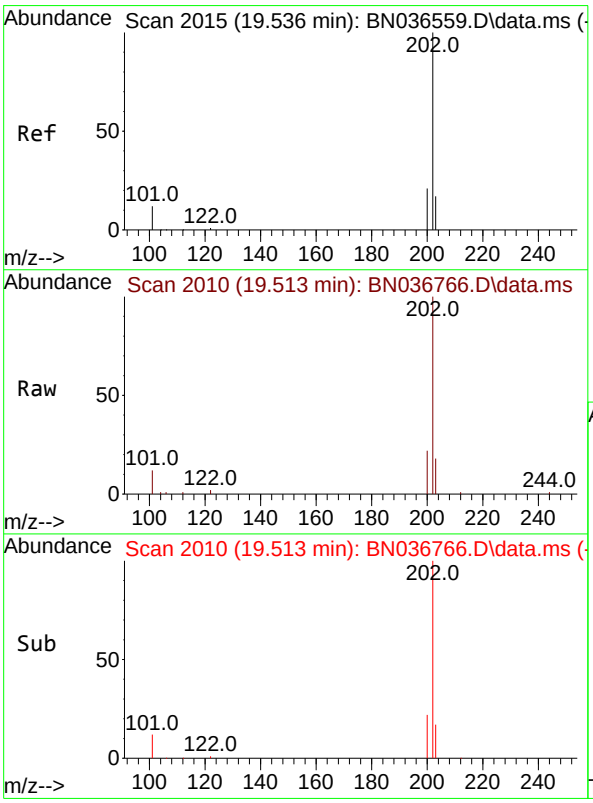
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:240 Resp: 5031

Ion	Ratio	Lower	Upper
240	100		
120	12.5	14.6	22.0#
236	28.5	24.1	36.1

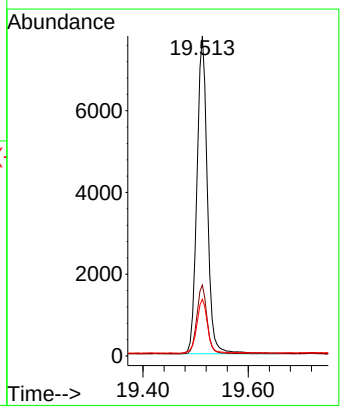


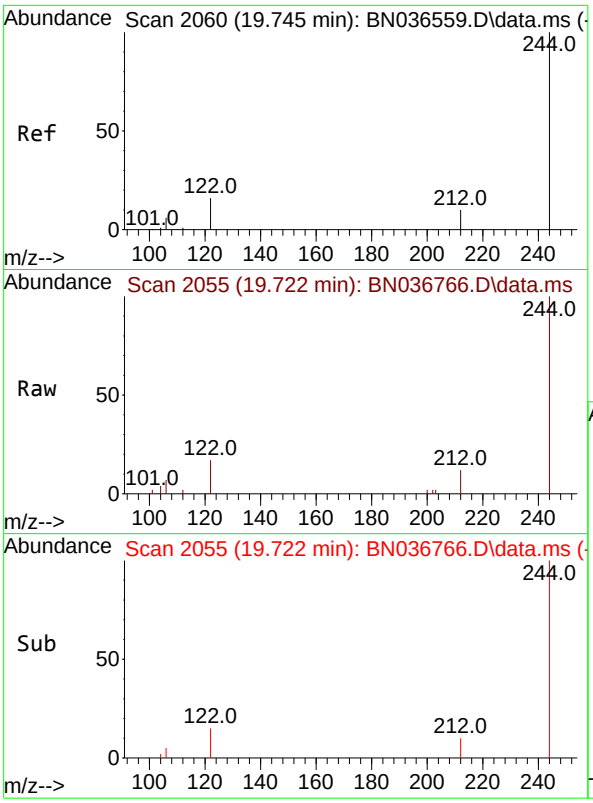


#30
Pyrene
Concen: 0.434 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:202 Resp: 10685

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.4	14.1	21.1



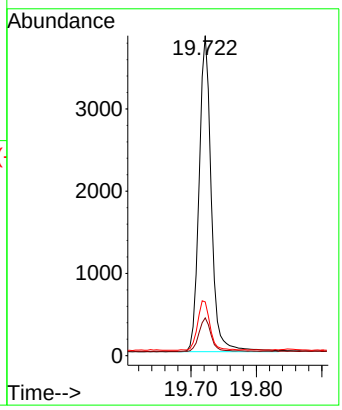


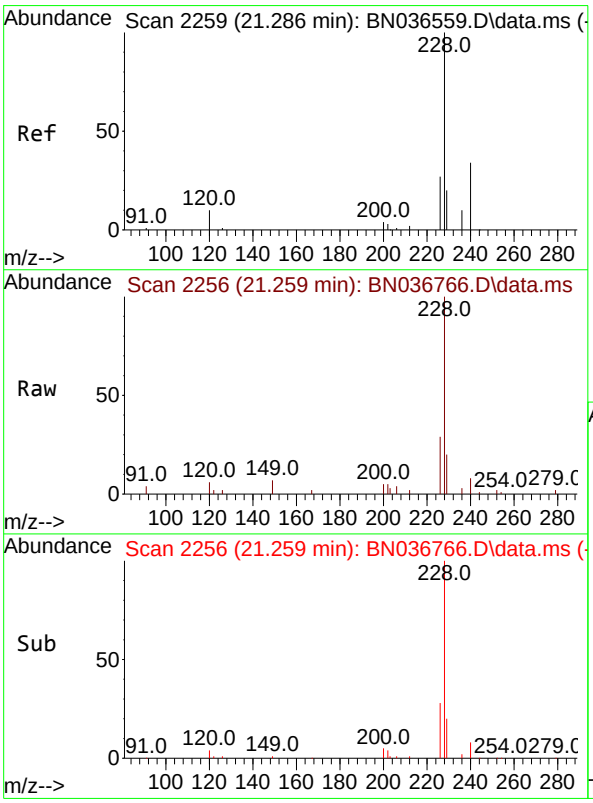
#31
Terphenyl-d14
Concen: 0.413 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:244 Resp: 4983

Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	16.8	13.9	20.9

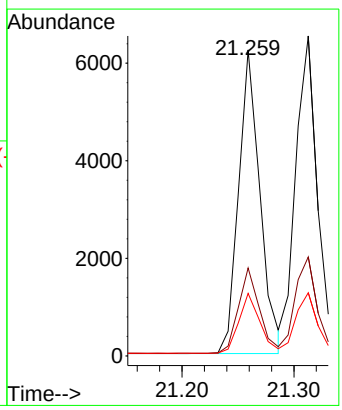


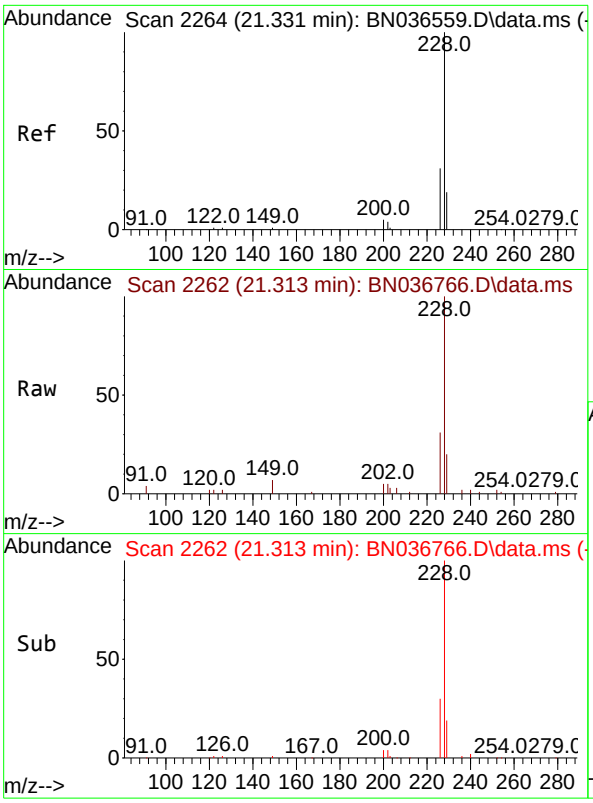


#32
Benzo(a)anthracene
Concen: 0.473 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:228 Resp: 8271

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.4	16.6	25.0



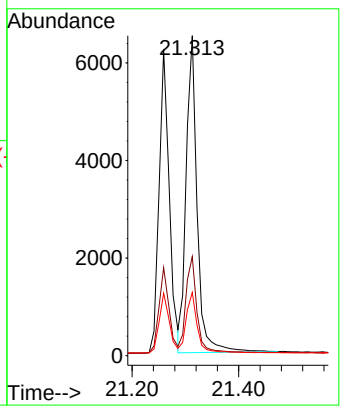


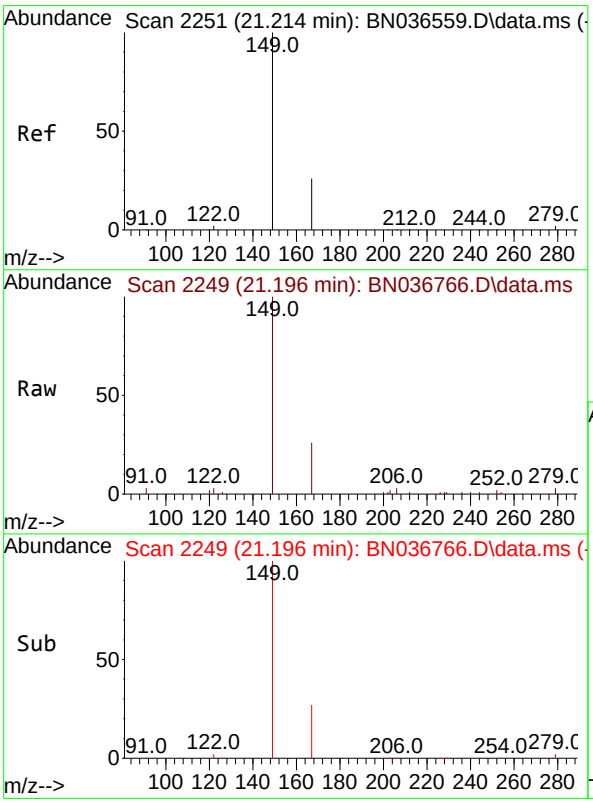
#33
Chrysene
Concen: 0.487 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:228 Resp: 9301

Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.3	37.9
229	19.7	15.8	23.8

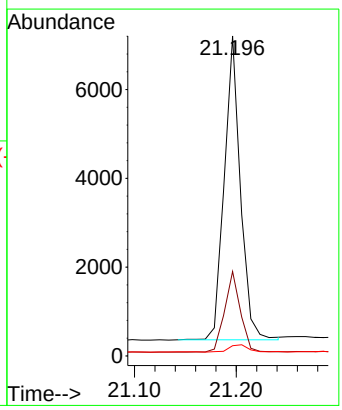


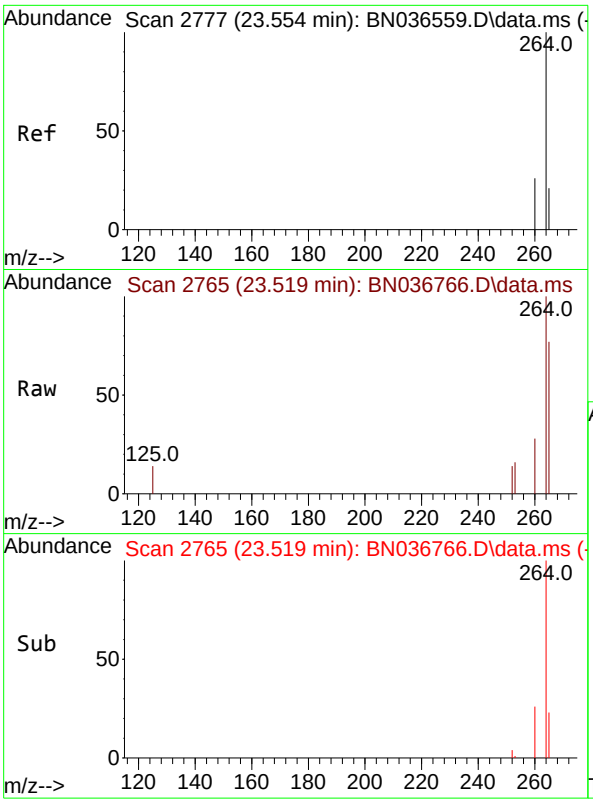


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.603 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:149 Resp: 7517

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	2.8	3.6	5.4#



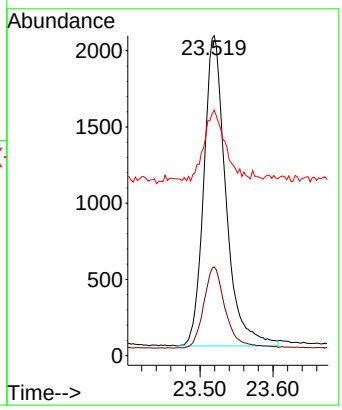


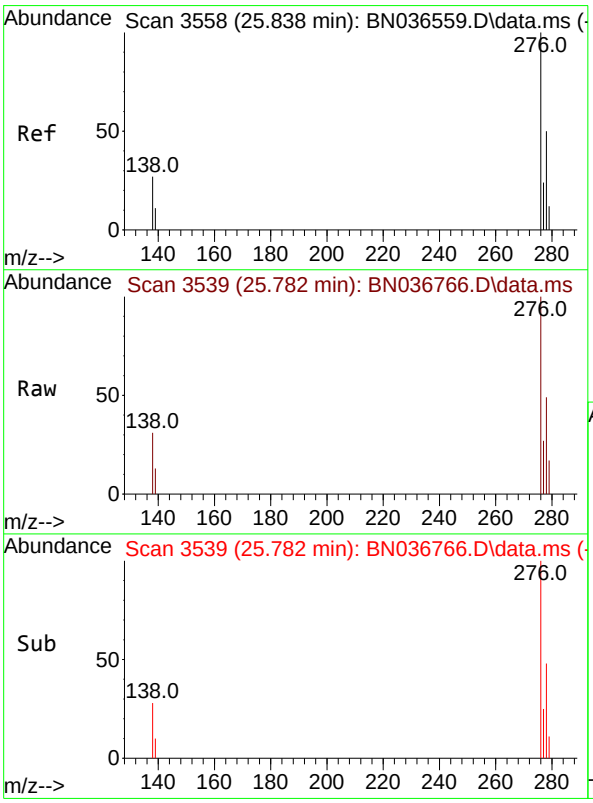
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:264 Resp: 4284

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	76.7	88.1	132.1#

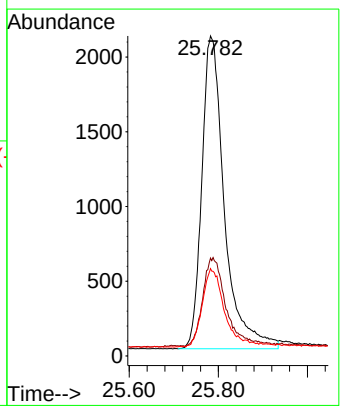


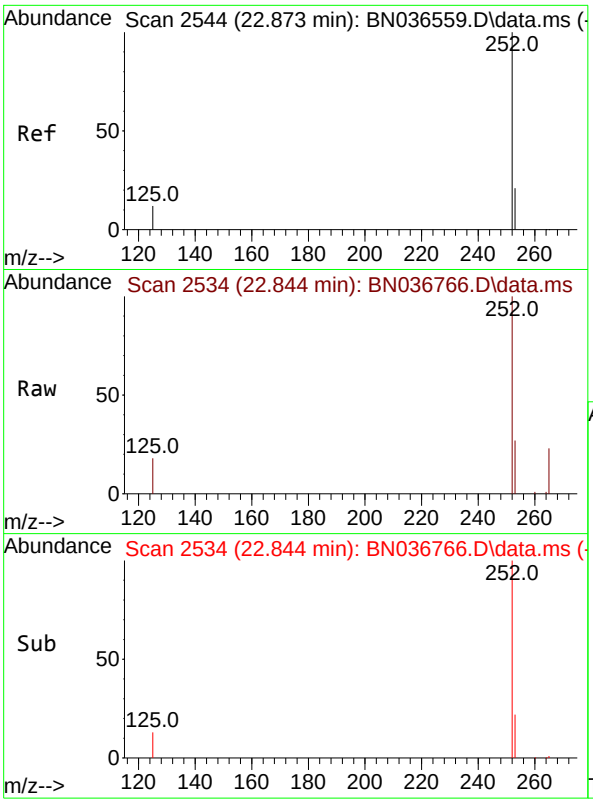


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.478 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:276 Resp: 7387

Ion	Ratio	Lower	Upper
276	100		
138	28.2	23.4	35.2
277	23.7	20.0	30.0



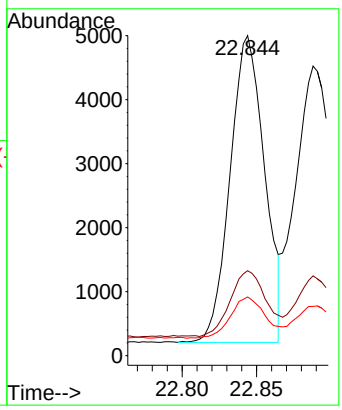


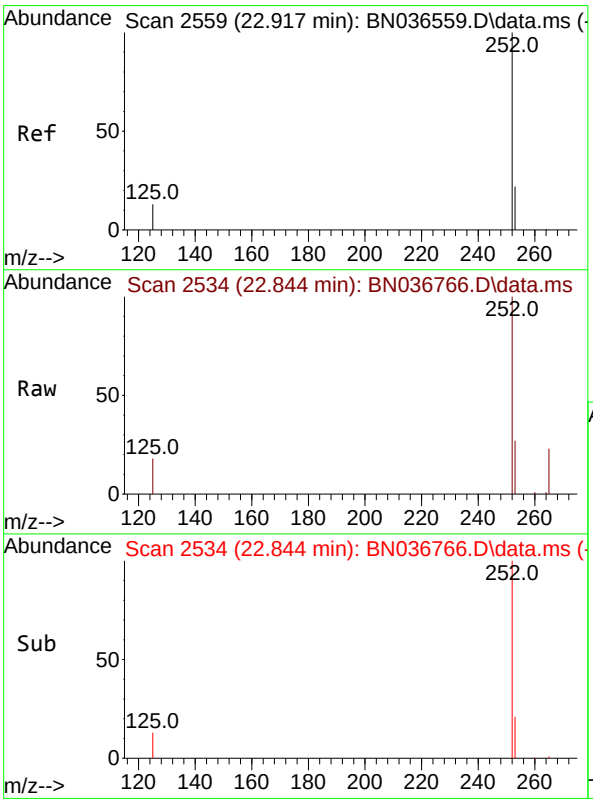
#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:252 Resp: 7695

Ion	Ratio	Lower	Upper
252	100		
253	26.6	23.9	35.9
125	18.4	17.4	26.2

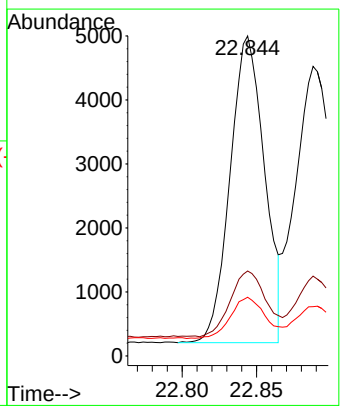


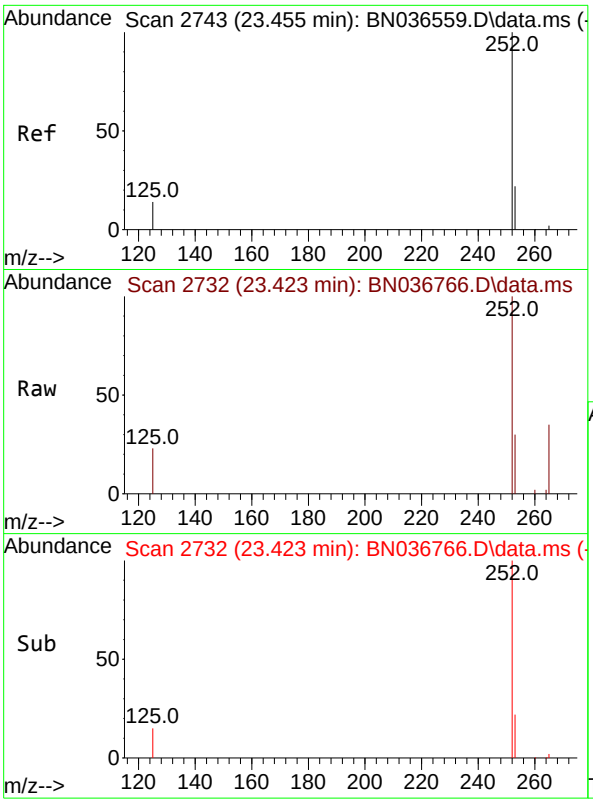


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.073 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:252 Resp: 7695

Ion	Ratio	Lower	Upper
252	100		
253	26.6	24.6	36.8
125	18.4	17.8	26.8



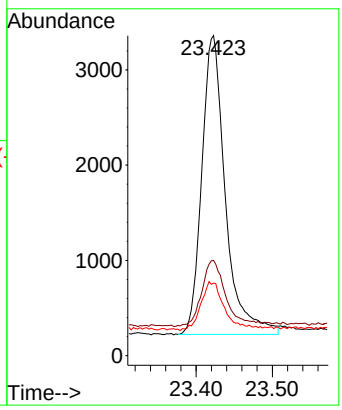


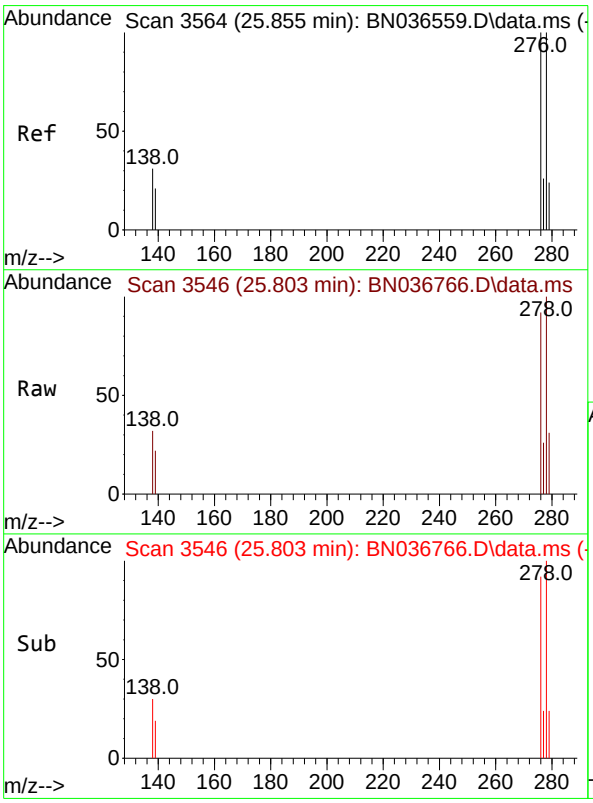
#39
Benzo(a)pyrene
Concen: 0.513 ng
RT: 23.423 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:252 Resp: 6740

Ion	Ratio	Lower	Upper
252	100		
253	29.7	27.8	41.8
125	22.7	22.7	34.1#

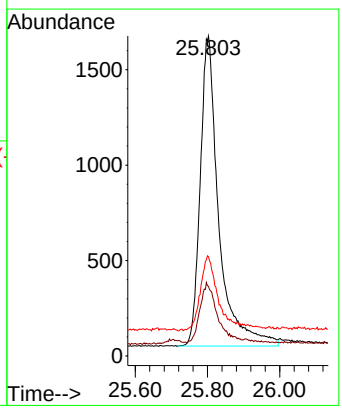


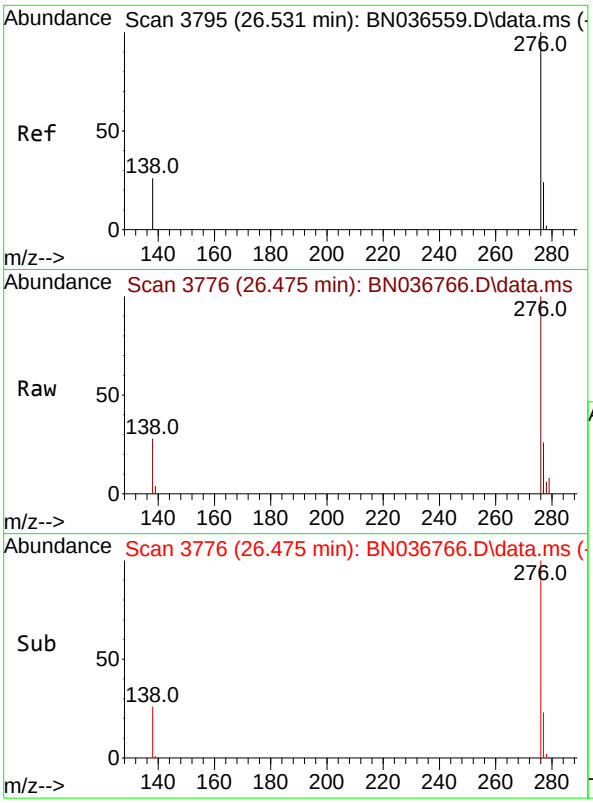


#40
Dibenzo(a,h)anthracene
Concen: 0.482 ng
RT: 25.803 min Scan# 3546
Delta R.T. -0.052 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Tgt Ion:278 Resp: 5802

Ion	Ratio	Lower	Upper
278	100		
139	21.8	20.8	31.2
279	31.1	28.8	43.2



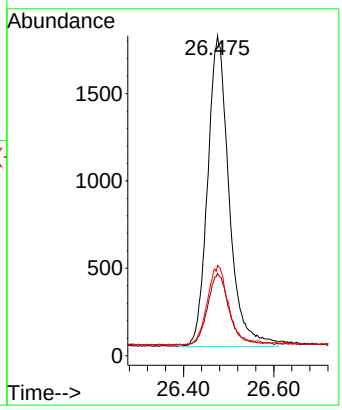


#41
Benzo(g,h,i)perylene
Concen: 0.426 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036766.D
Acq: 28 Mar 2025 10:22

Instrument :
BNA_N
ClientSampleId :
RE132D1-20250318MS

Tgt Ion:276 Resp: 5865

Ion	Ratio	Lower	Upper
276	100		
277	25.7	22.2	33.4
138	28.2	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 14:23:03 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

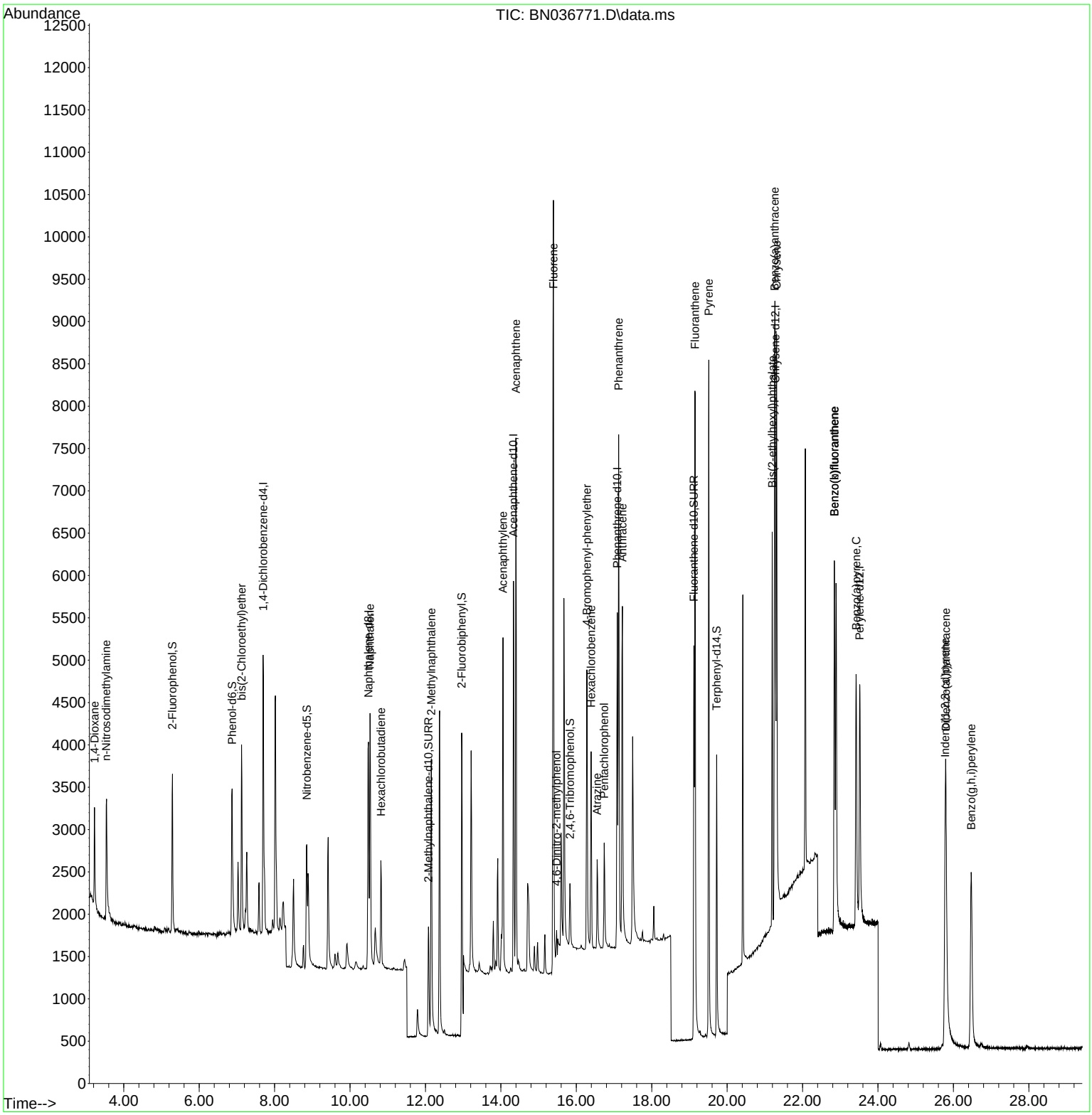
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1636	0.400	ng		-0.03
7) Naphthalene-d8	10.487	136	4177	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	2615	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	5571	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	4555	0.400	ng		#-0.02
35) Perylene-d12	23.516	264	4167	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1384	0.363	ng		-0.02
5) Phenol-d6	6.872	99	1653	0.351	ng		-0.03
8) Nitrobenzene-d5	8.854	82	1480	0.326	ng		-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2256	0.363	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	464	0.391	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	5285	0.347	ng		-0.03
27) Fluoranthene-d10	19.118	212	5637	0.395	ng		-0.02
31) Terphenyl-d14	19.722	244	3716	0.341	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	752	0.414	ng		97
3) n-Nitrosodimethylamine	3.535	42	1423	0.388	ng		97
6) bis(2-Chloroethyl)ether	7.125	93	1671	0.343	ng		98
9) Naphthalene	10.530	128	4359	0.355	ng		98
10) Hexachlorobutadiene	10.818	225	1044	0.361	ng	#	99
12) 2-Methylnaphthalene	12.156	142	2874	0.368	ng		98
16) Acenaphthylene	14.056	152	4358	0.353	ng		99
17) Acenaphthene	14.398	154	2946	0.365	ng		100
18) Fluorene	15.393	166	4111	0.376	ng		98
20) 4,6-Dinitro-2-methylph...	15.478	198	428	0.446	ng		87
21) 4-Bromophenyl-phenylether	16.280	248	1300	0.372	ng		96
22) Hexachlorobenzene	16.391	284	1537	0.365	ng		96
23) Atrazine	16.553	200	1063	0.380	ng		97
24) Pentachlorophenol	16.739	266	702	0.365	ng		95
25) Phenanthrene	17.124	178	6367	0.381	ng		99
26) Anthracene	17.223	178	5569	0.369	ng		100
28) Fluoranthene	19.150	202	7617	0.406	ng		99
30) Pyrene	19.513	202	7795	0.350	ng		99
32) Benzo(a)anthracene	21.259	228	5566	0.351	ng		99
33) Chrysene	21.313	228	6726	0.389	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3968	0.352	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5233	0.348	ng		96
37) Benzo(b)fluoranthene	22.844	252	5720	0.377	ng		97
38) Benzo(k)fluoranthene	22.844	252	5720	0.360	ng		96
39) Benzo(a)pyrene	23.420	252	4867	0.381	ng		96
40) Dibenzo(a,h)anthracene	25.800	278	3914	0.334	ng		96
41) Benzo(g,h,i)perylene	26.475	276	4758	0.355	ng		95

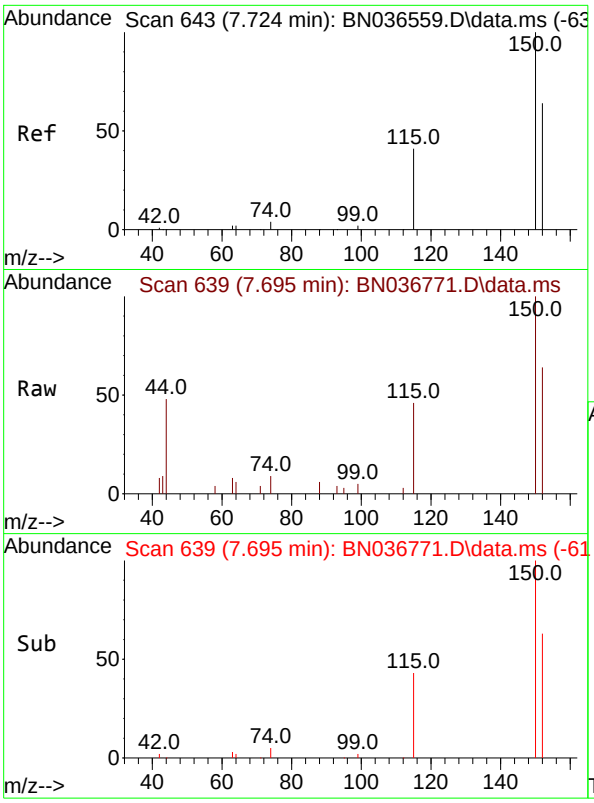
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 14:23:03 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



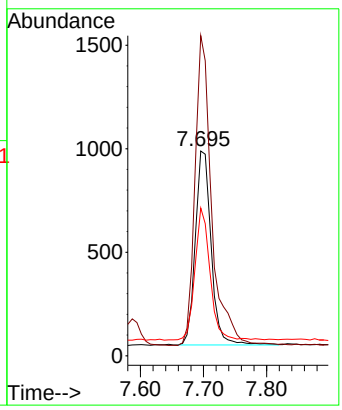


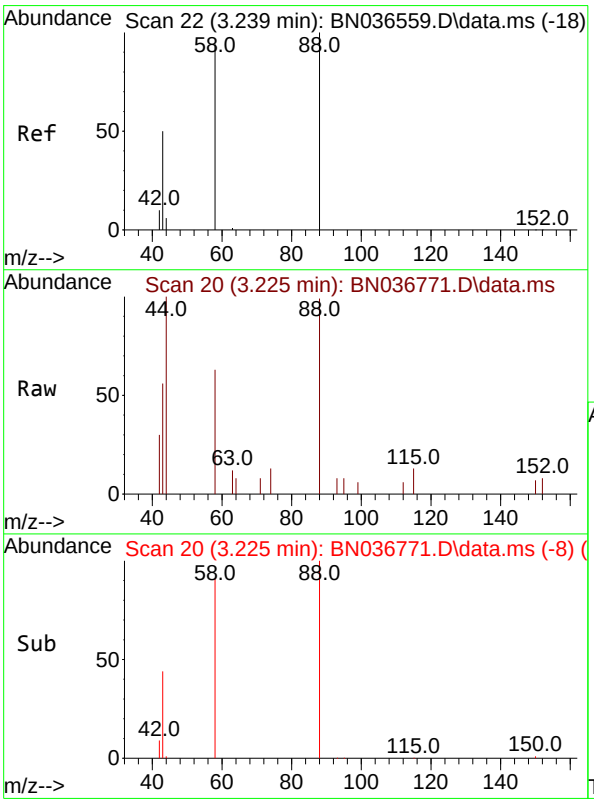
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1636

Ion	Ratio	Lower	Upper
152	100		
150	156.3	123.7	185.5
115	72.2	54.3	81.5

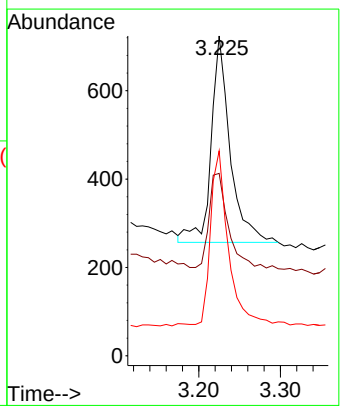


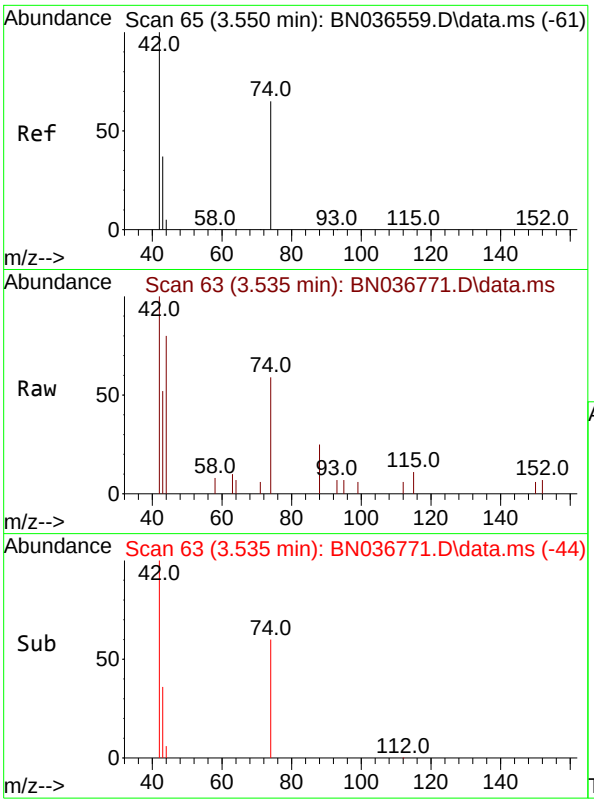


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 88 Resp: 752

Ion	Ratio	Lower	Upper
88	100		
43	47.5	37.8	56.8
58	80.9	67.4	101.2



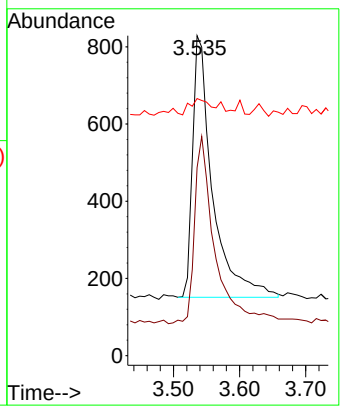


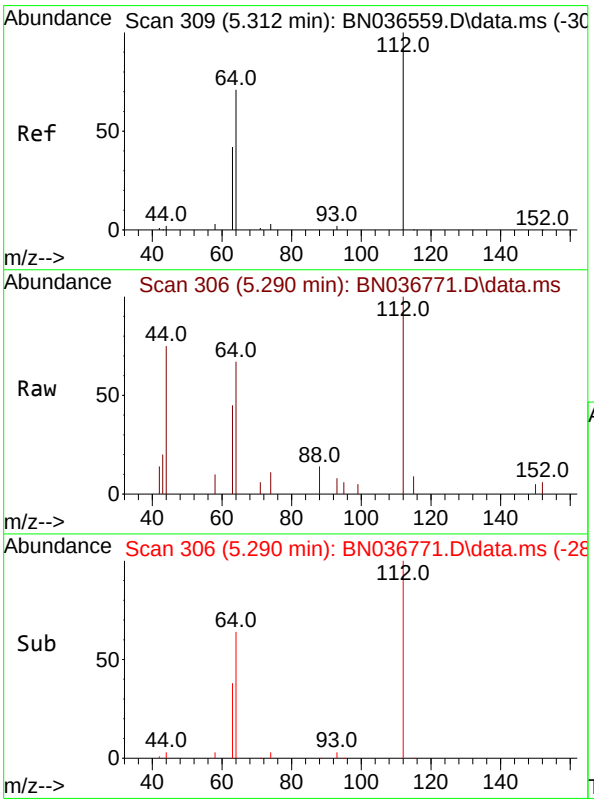
#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1423

Ion	Ratio	Lower	Upper
42	100		
74	72.9	60.6	90.8
44	6.7	6.3	9.5

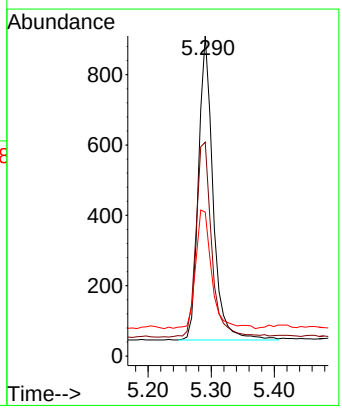


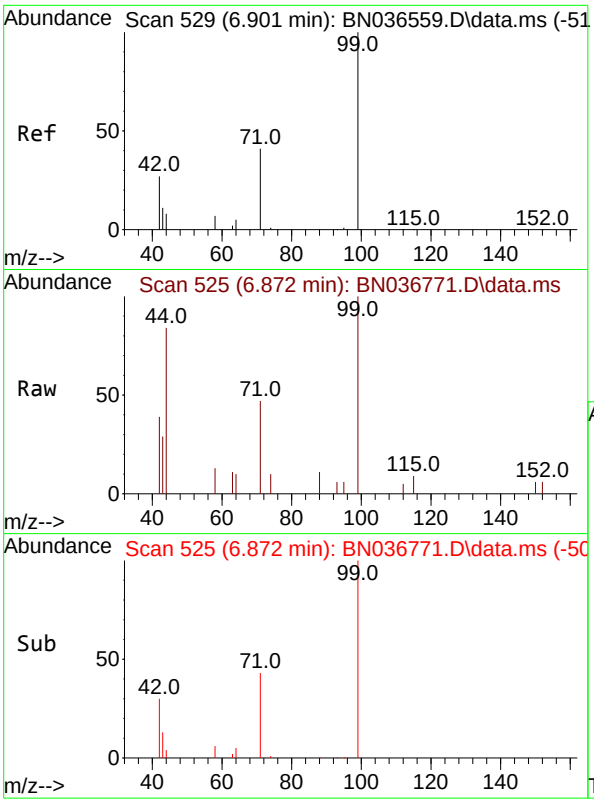


#4
2-Fluorophenol
Concen: 0.363 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:112 Resp: 1384

Ion	Ratio	Lower	Upper
112	100		
64	69.4	53.1	79.7
63	42.8	31.8	47.8



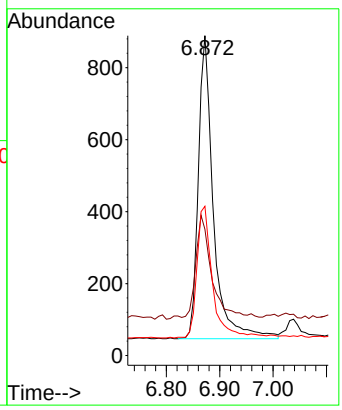


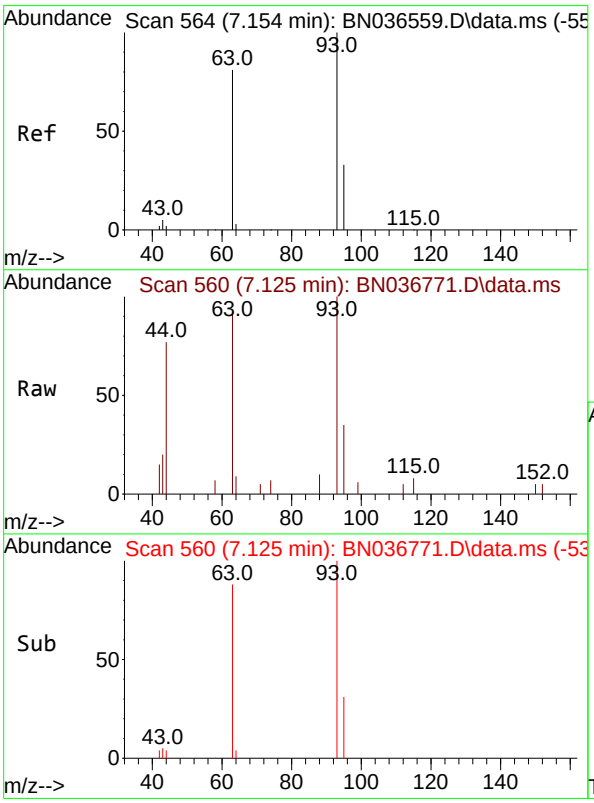
#5
Phenol-d6
Concen: 0.351 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1653

Ion	Ratio	Lower	Upper
99	100		
42	37.9	26.5	39.7
71	45.1	34.1	51.1

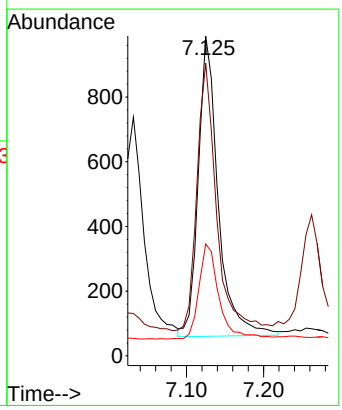


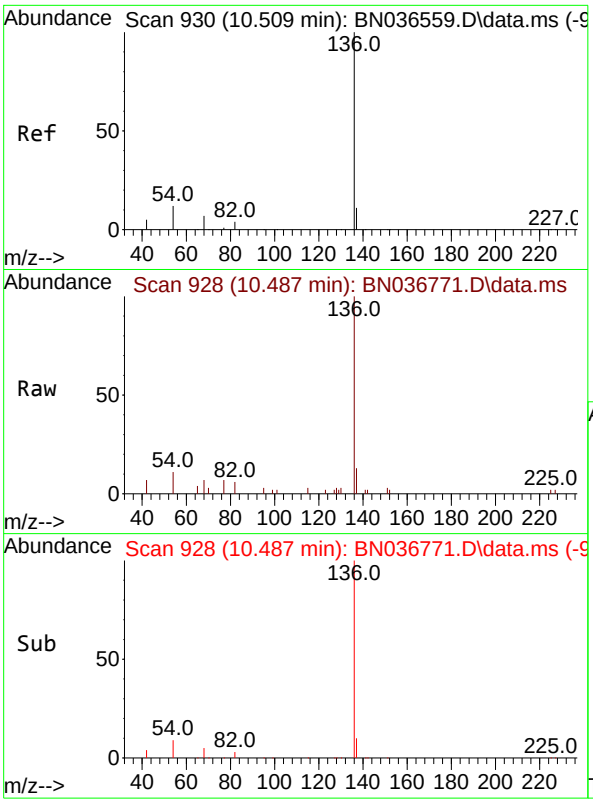


#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 93 Resp: 1671

Ion	Ratio	Lower	Upper
93	100		
63	87.3	67.7	101.5
95	31.8	25.6	38.4



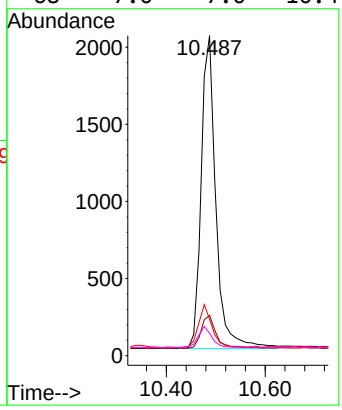


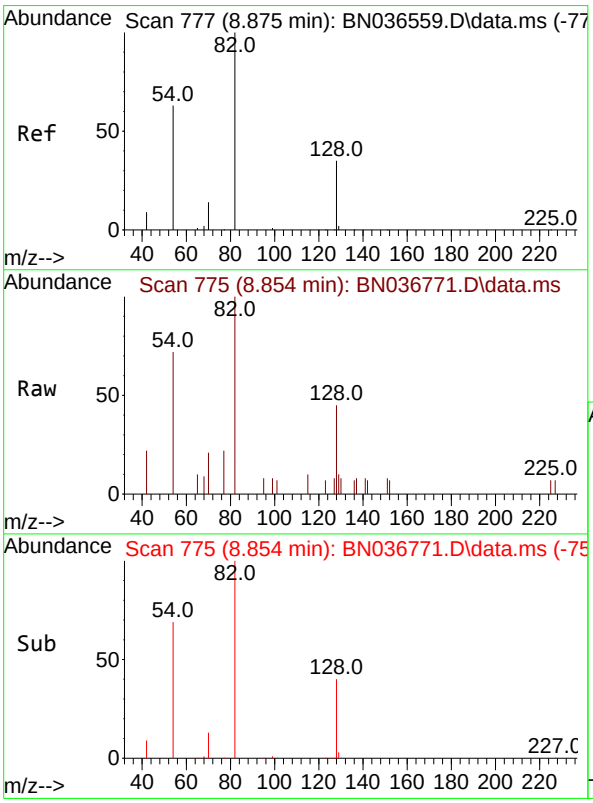
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4177

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	11.4	11.5	17.3#
68	7.0	7.0	10.4

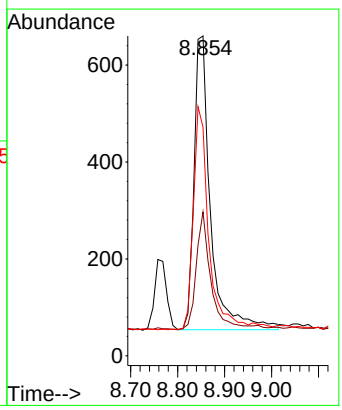


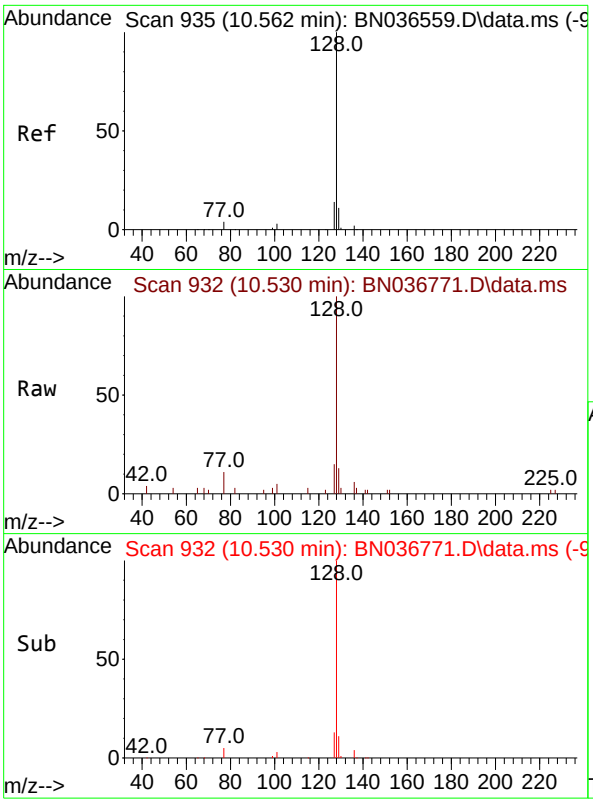


#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 82 Resp: 1480

Ion	Ratio	Lower	Upper
82	100		
128	45.0	30.6	45.8
54	71.5	52.2	78.4



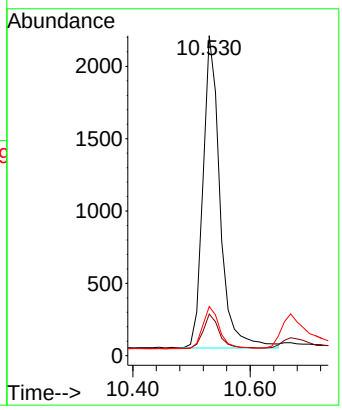


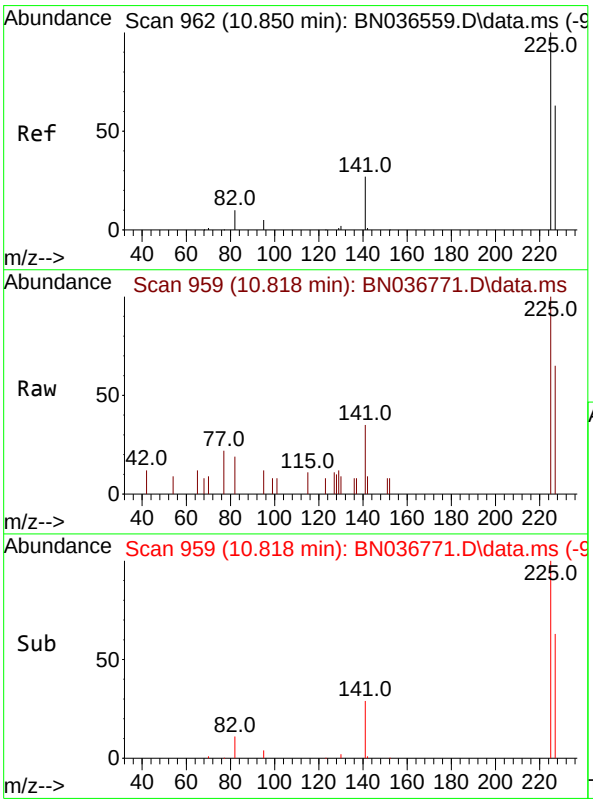
#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4359

Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.8	14.6
127	15.4	11.8	17.8

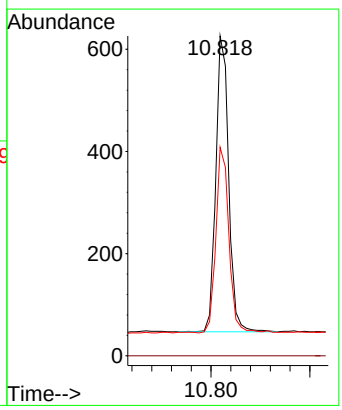


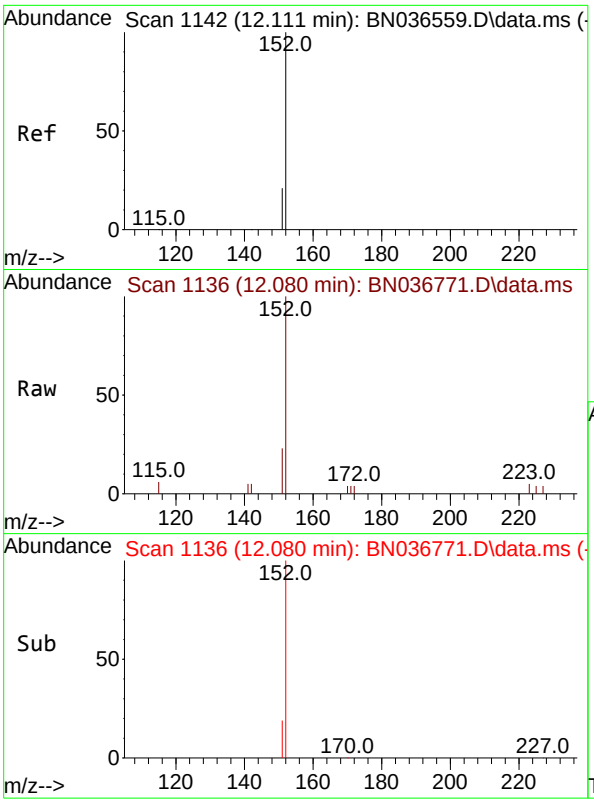


#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:225 Resp: 1044

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



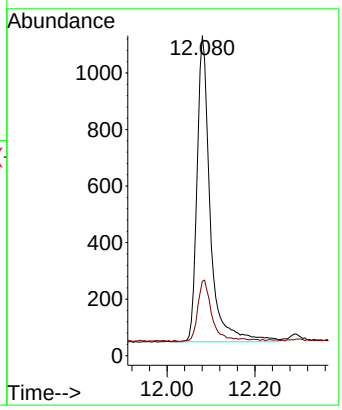


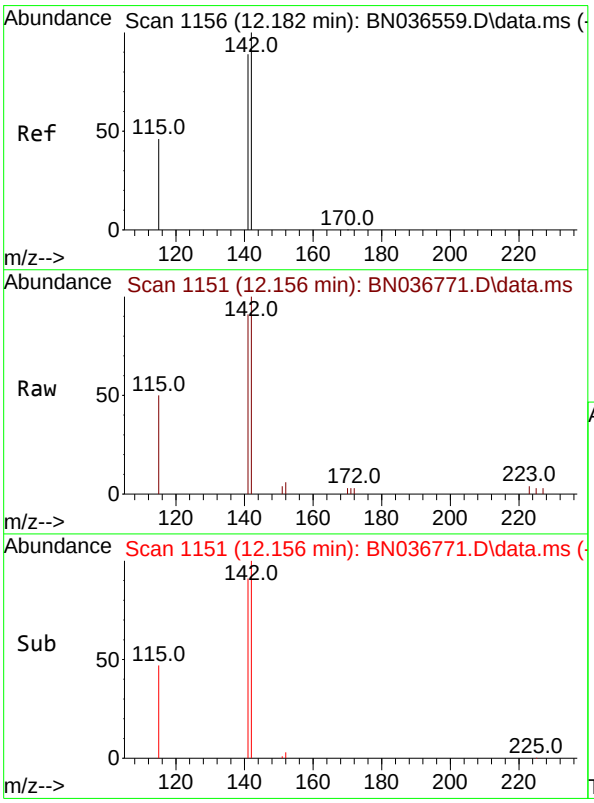
#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2256

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

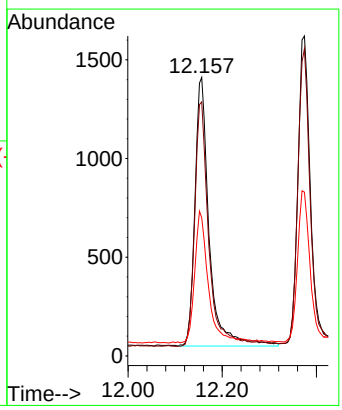


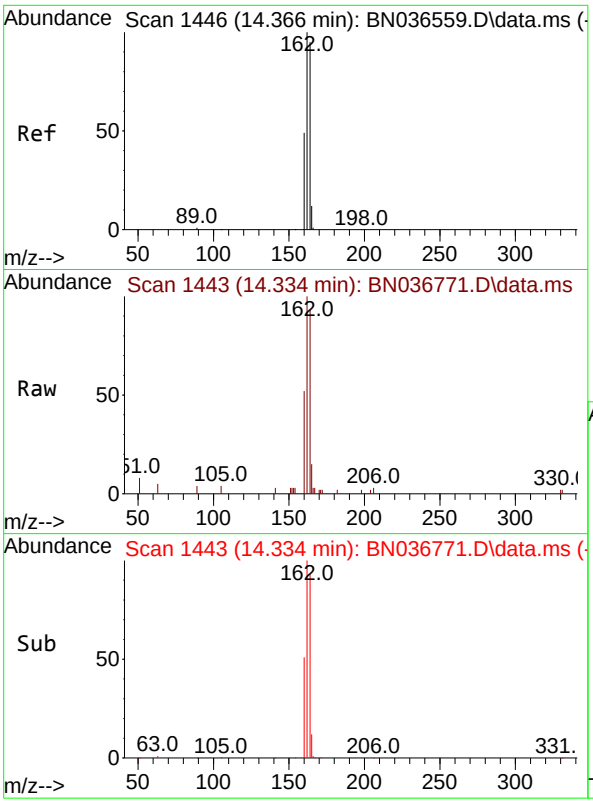


#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:142 Resp: 2874

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.7	107.5
115	49.5	38.3	57.5



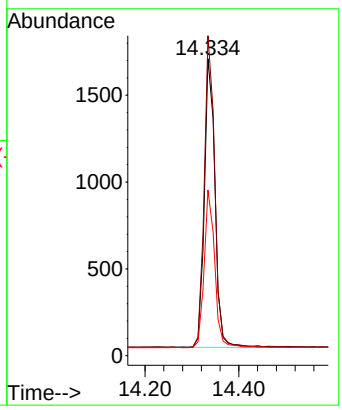


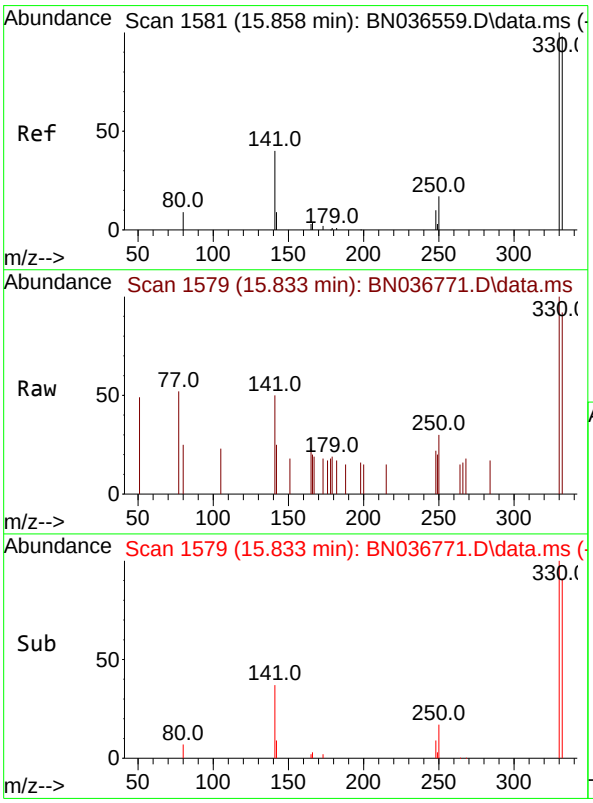
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2615

Ion	Ratio	Lower	Upper
164	100		
162	107.8	84.2	126.2
160	55.8	42.2	63.2

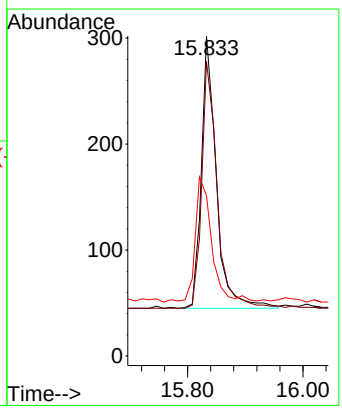


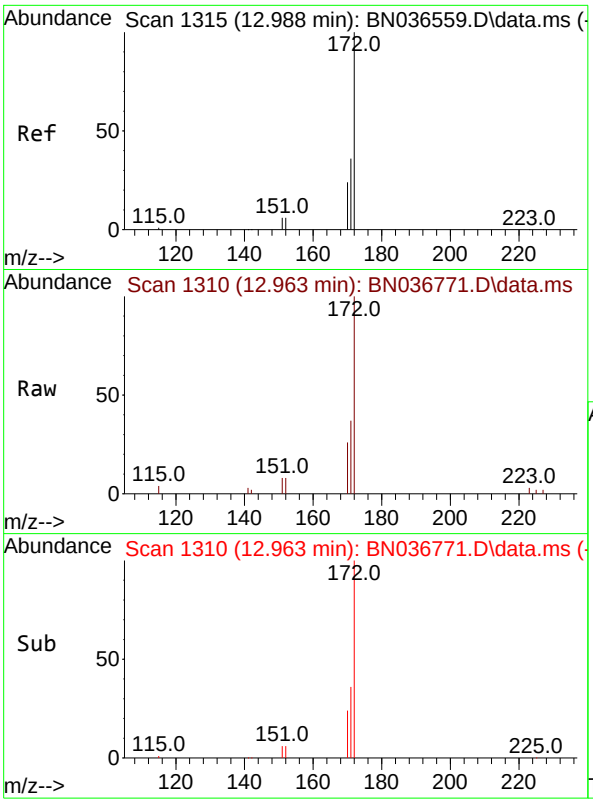


#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:330 Resp: 464

Ion	Ratio	Lower	Upper
330	100		
332	93.3	75.2	112.8
141	49.1	43.4	65.2



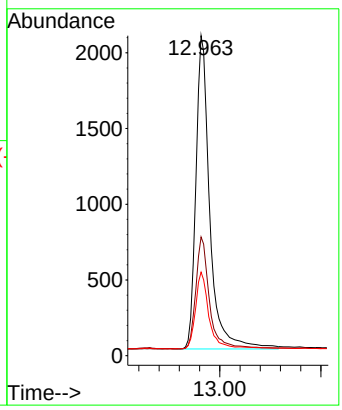


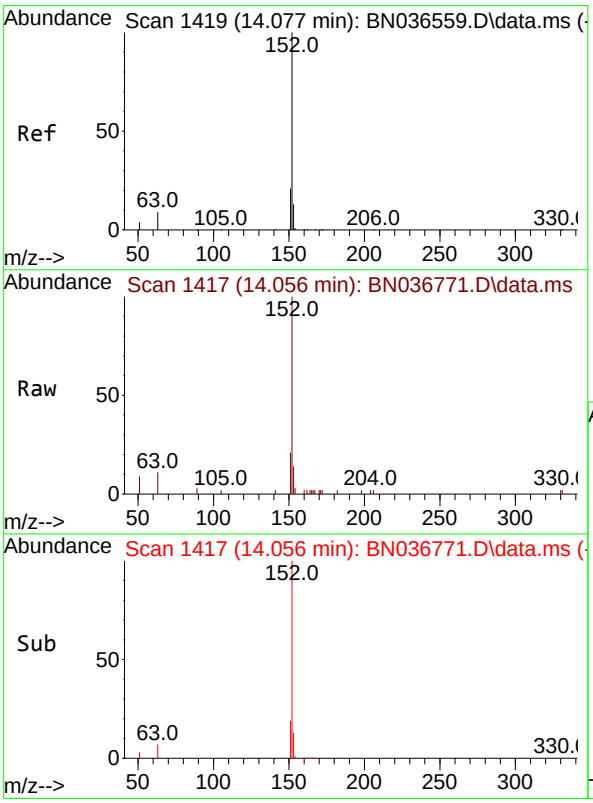
#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5285

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	26.1	20.2	30.4

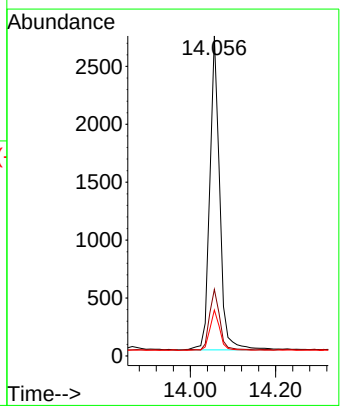


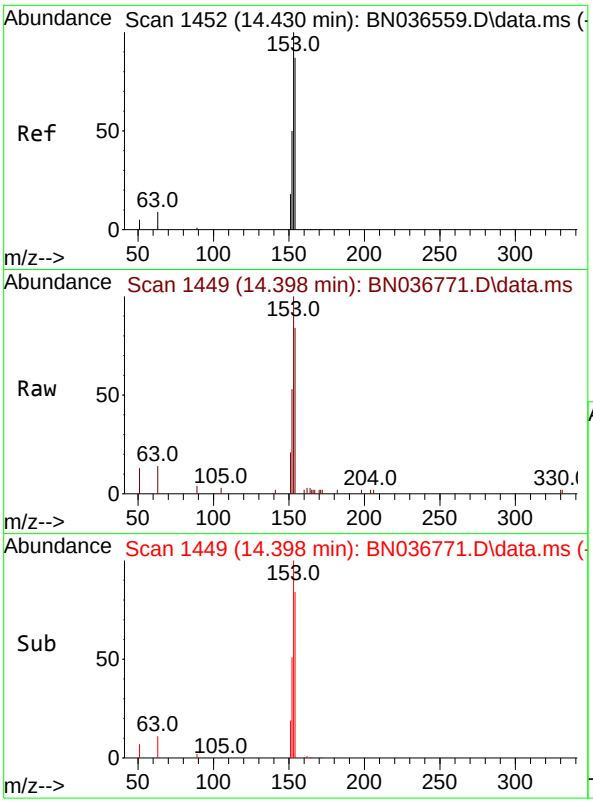


#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152 Resp: 4358

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.2	24.4
153	13.1	10.6	15.8



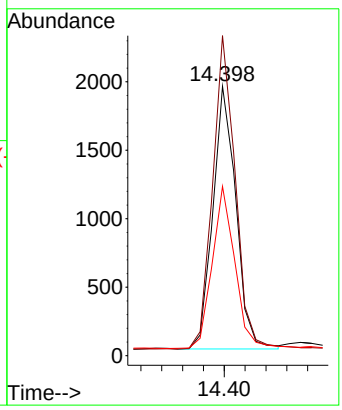


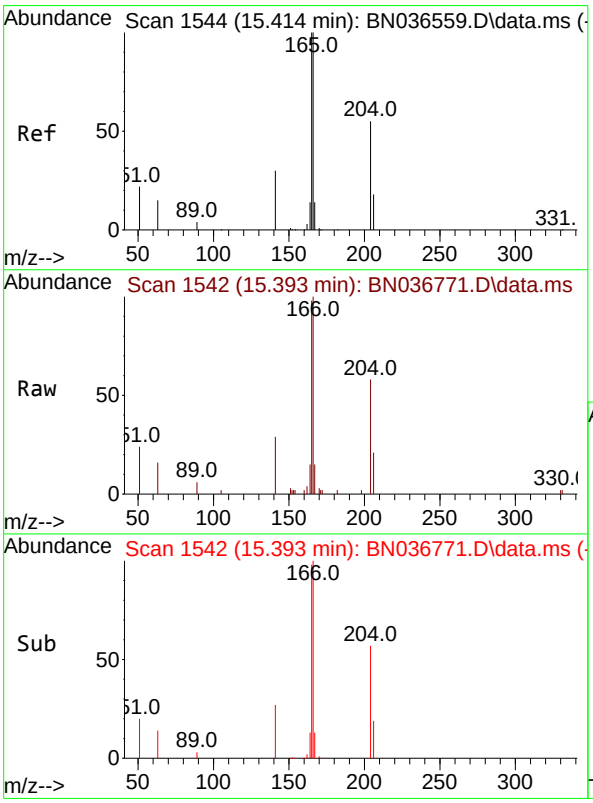
#17
Acenaphthene
Concen: 0.365 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2946

Ion	Ratio	Lower	Upper
154	100		
153	117.7	94.1	141.1
152	61.6	49.8	74.6

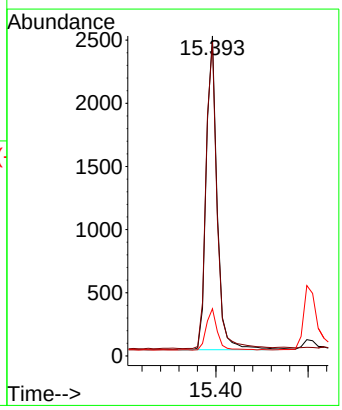


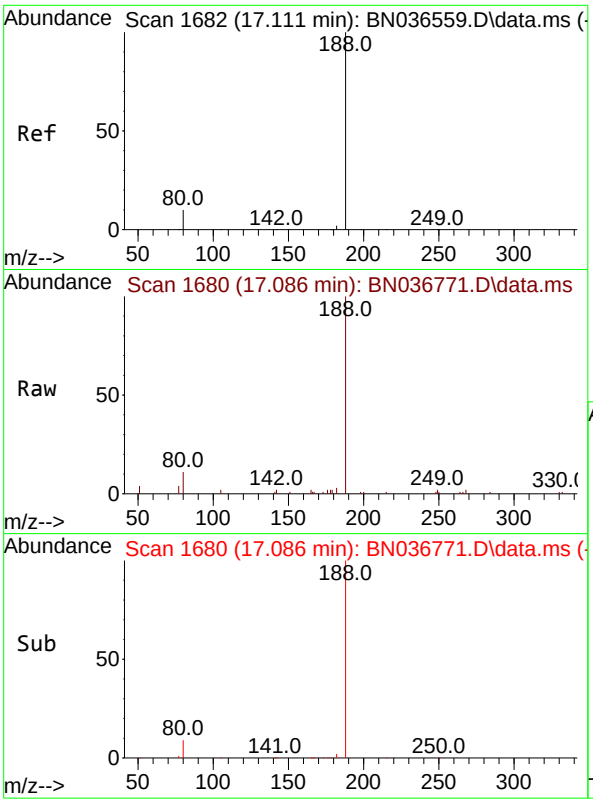


#18
Fluorene
Concen: 0.376 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:166 Resp: 4111

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.8	119.8
167	13.4	10.6	15.8



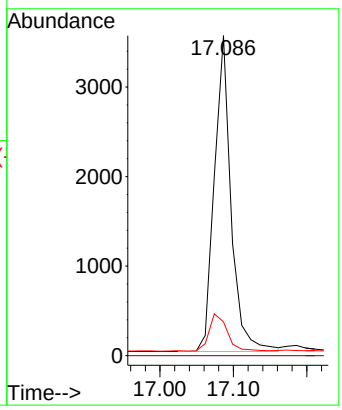


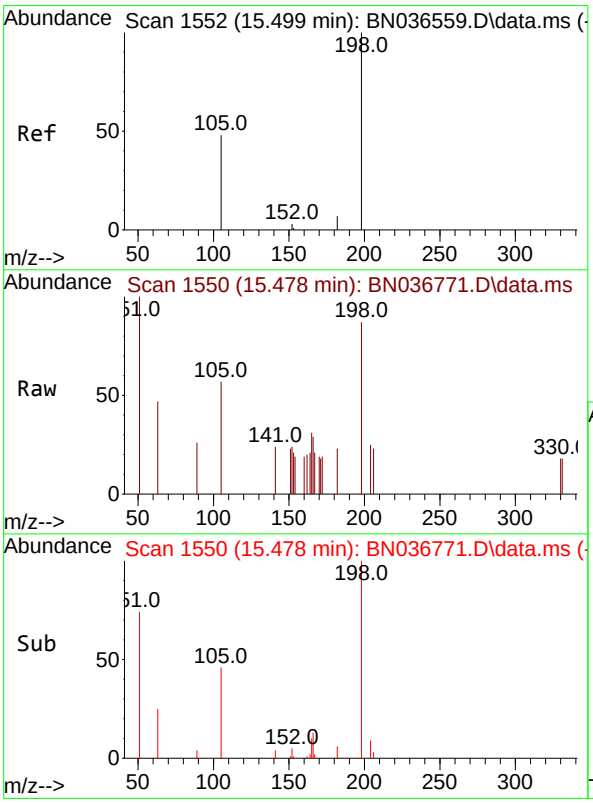
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5571

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	8.8	13.2

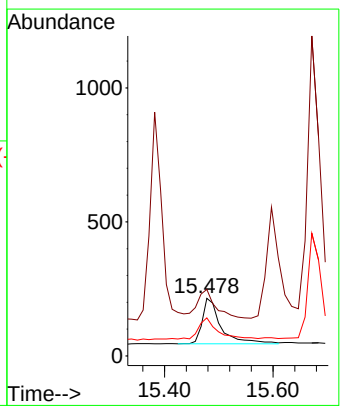


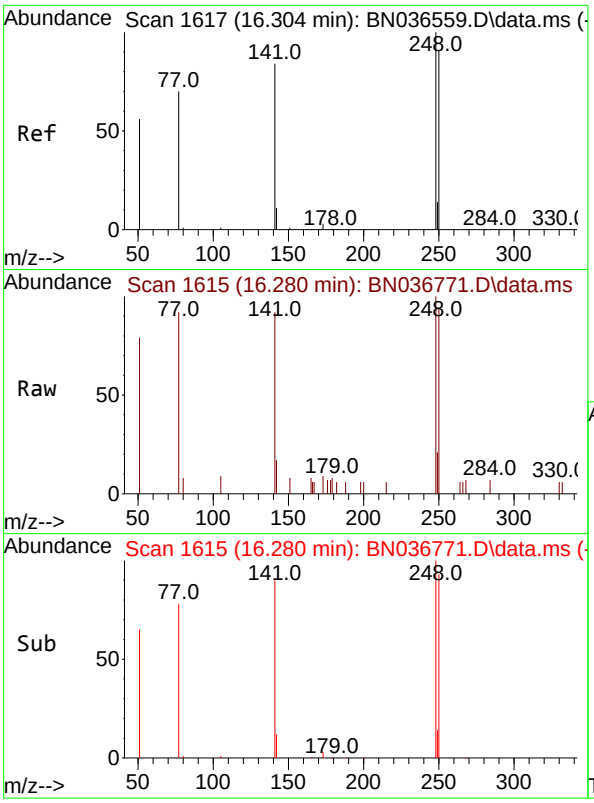


#20
4,6-Dinitro-2-methylphenol
Concen: 0.446 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:198 Resp: 428

Ion	Ratio	Lower	Upper
198	100		
51	115.3	107.9	161.9
105	66.0	56.2	84.2



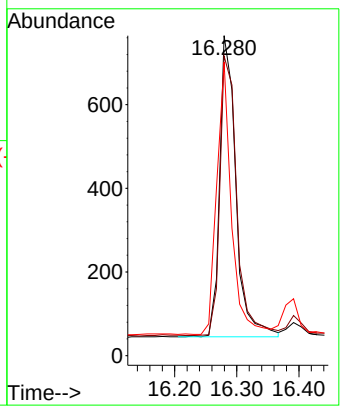


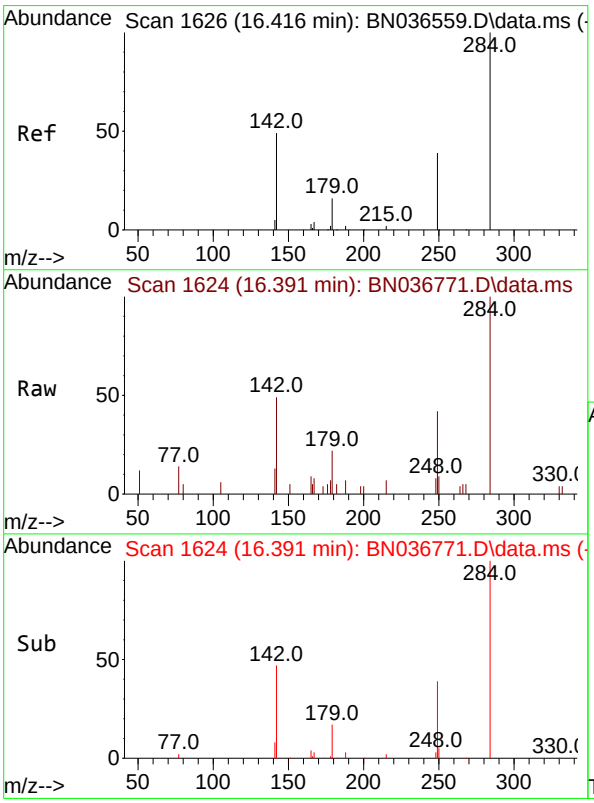
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1300

Ion	Ratio	Lower	Upper
248	100		
250	93.6	73.0	109.6
141	91.8	68.6	103.0

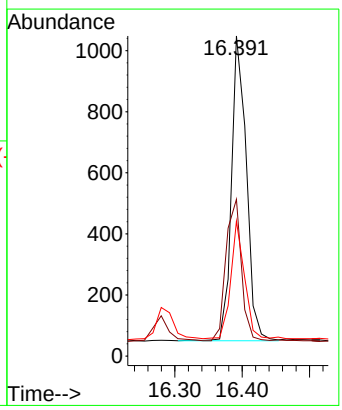


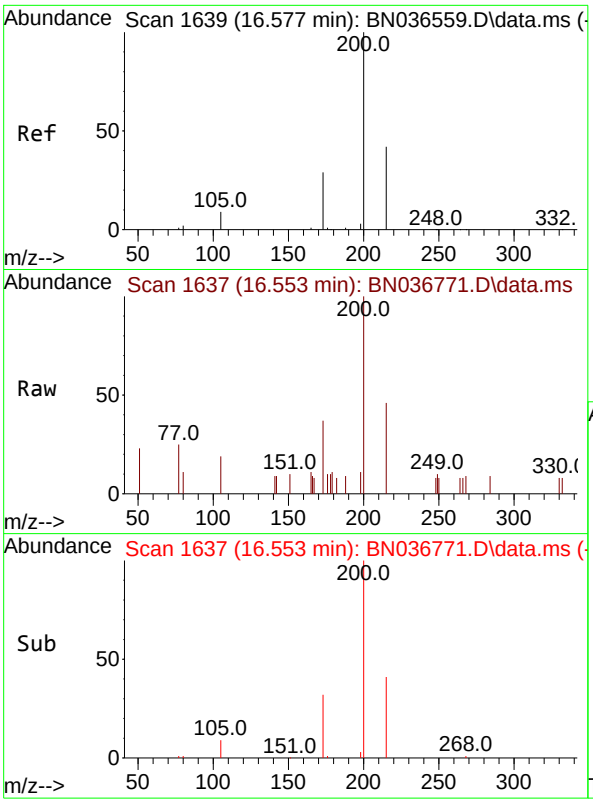


#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:284 Resp: 1537

Ion	Ratio	Lower	Upper
284	100		
142	49.5	37.0	55.4
249	36.2	28.1	42.1



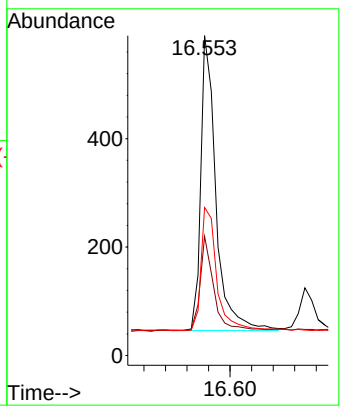


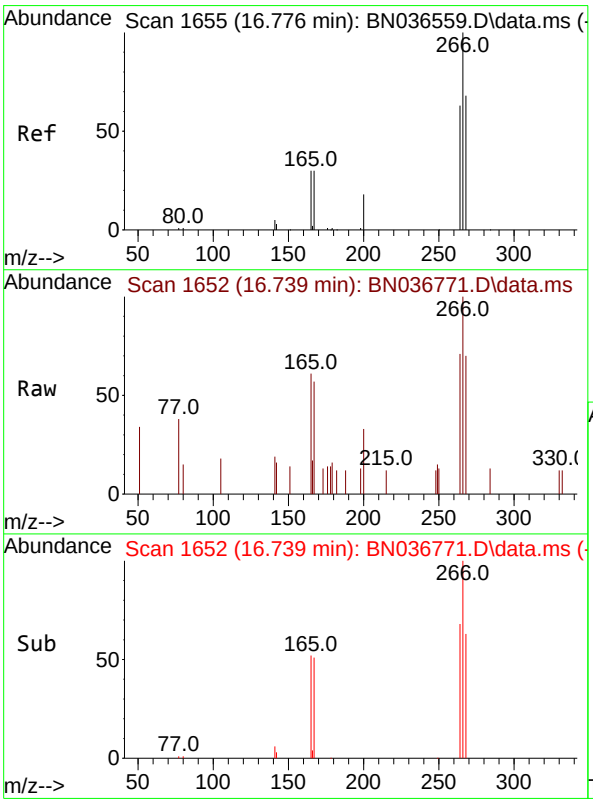
#23
Atrazine
Concen: 0.380 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1063

Ion	Ratio	Lower	Upper
200	100		
173	37.3	27.3	40.9
215	46.3	36.8	55.2

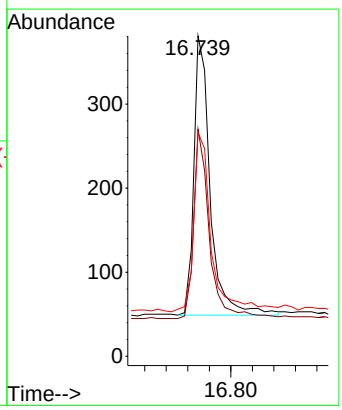


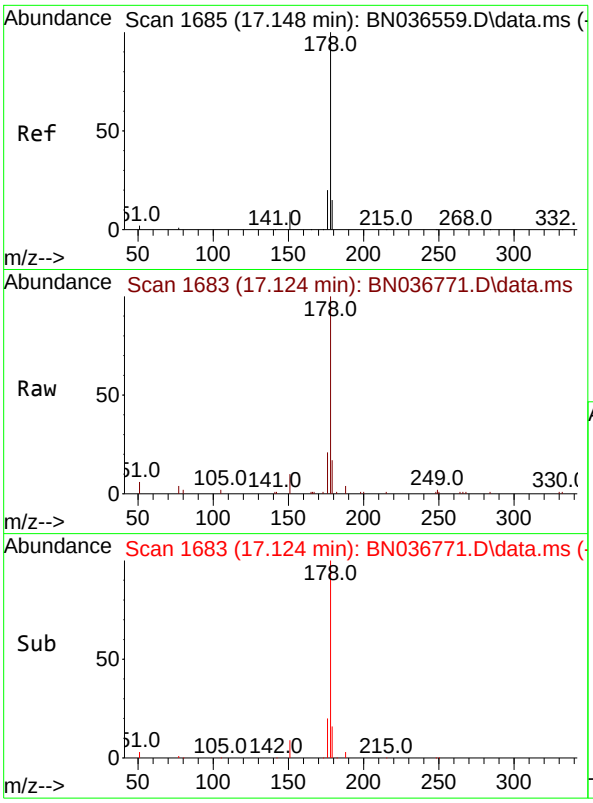


#24
Pentachlorophenol
Concen: 0.365 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:266 Resp: 702

Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.6	74.4
268	69.2	50.9	76.3



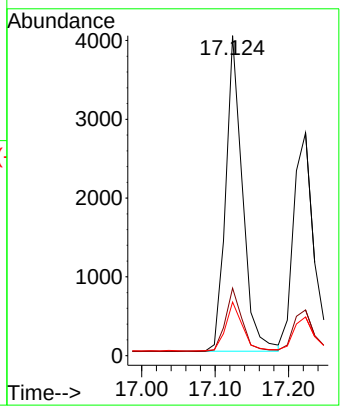


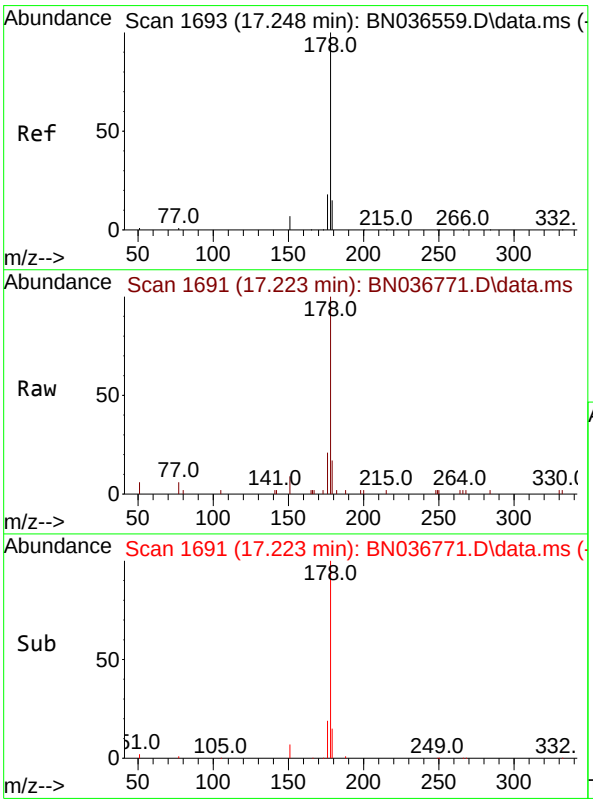
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6367

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.8	12.2	18.4

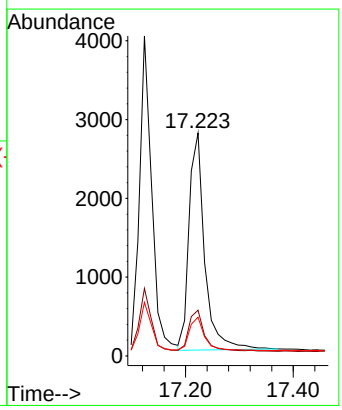


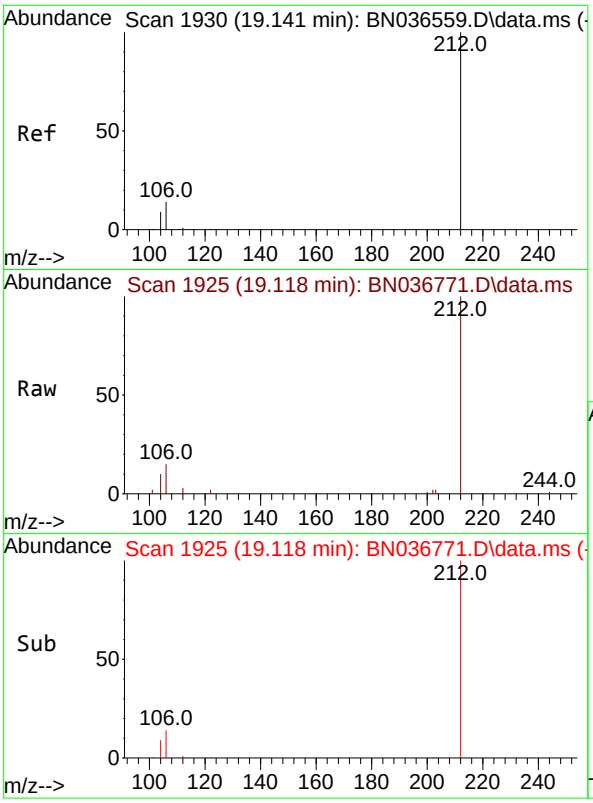


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 5569

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.6	18.8



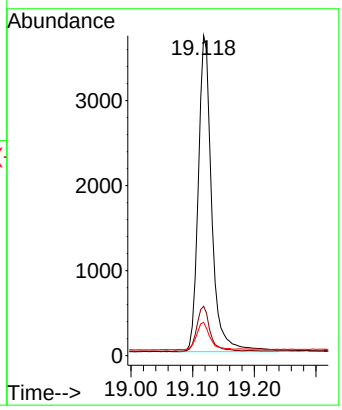


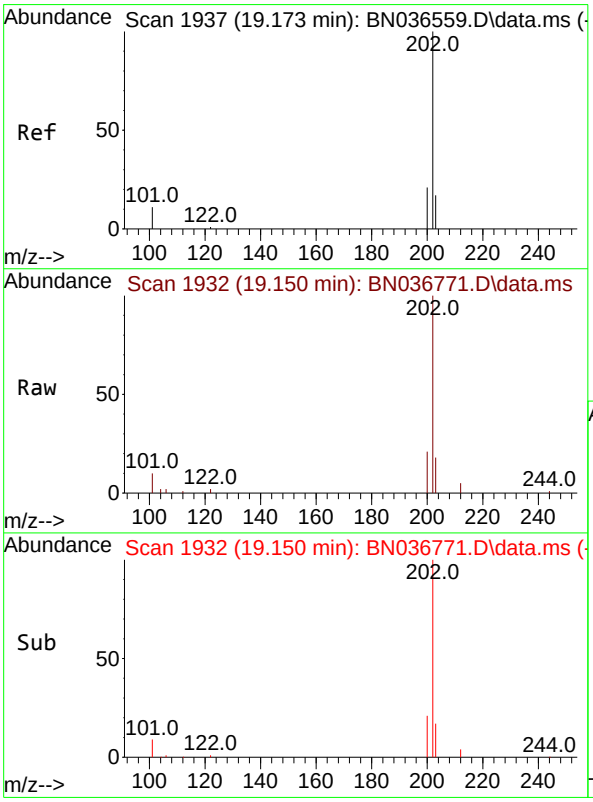
#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 5637

Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.6	7.3	10.9

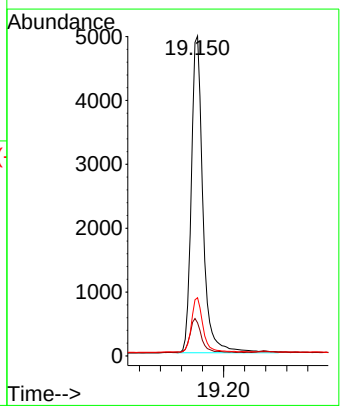


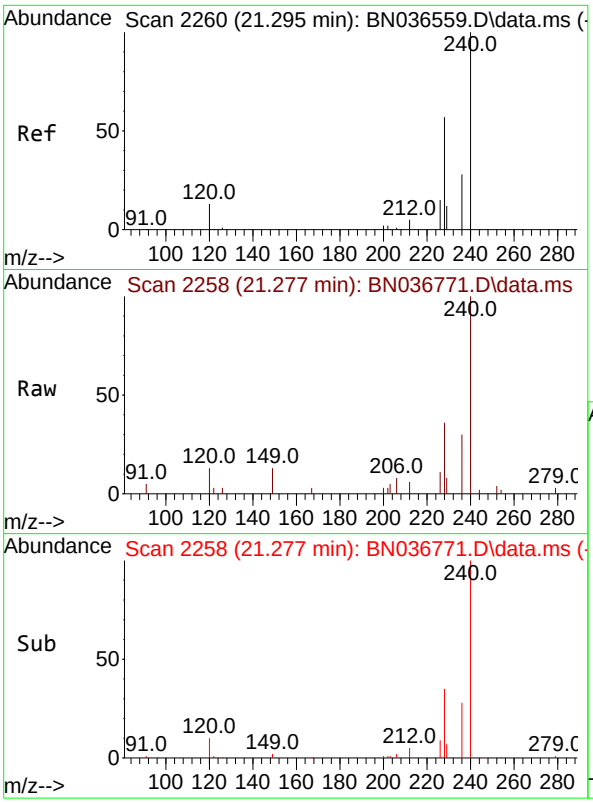


#28
Fluoranthene
Concen: 0.406 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7617

Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	16.8	13.5	20.3



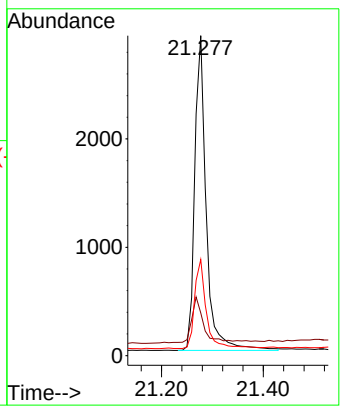


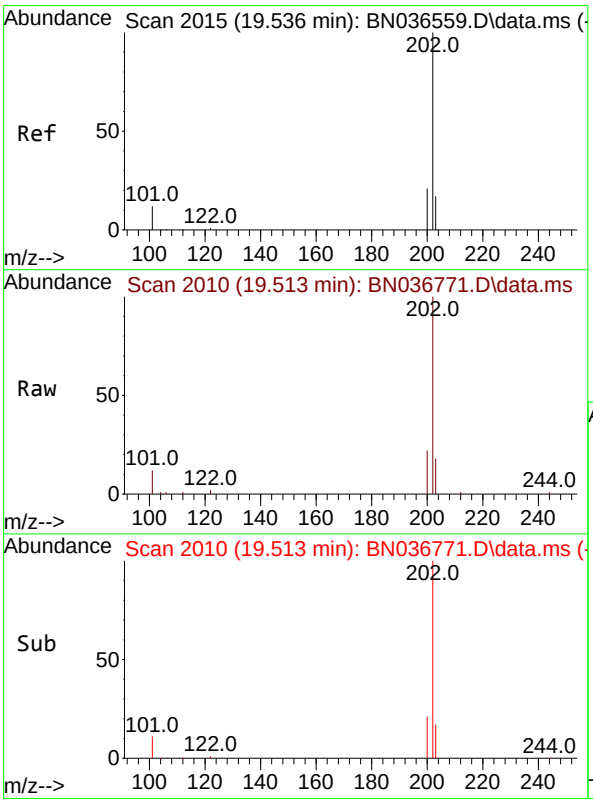
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 4555

Ion	Ratio	Lower	Upper
240	100		
120	13.3	14.6	22.0#
236	30.0	24.1	36.1

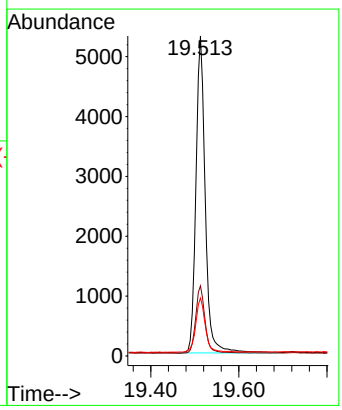


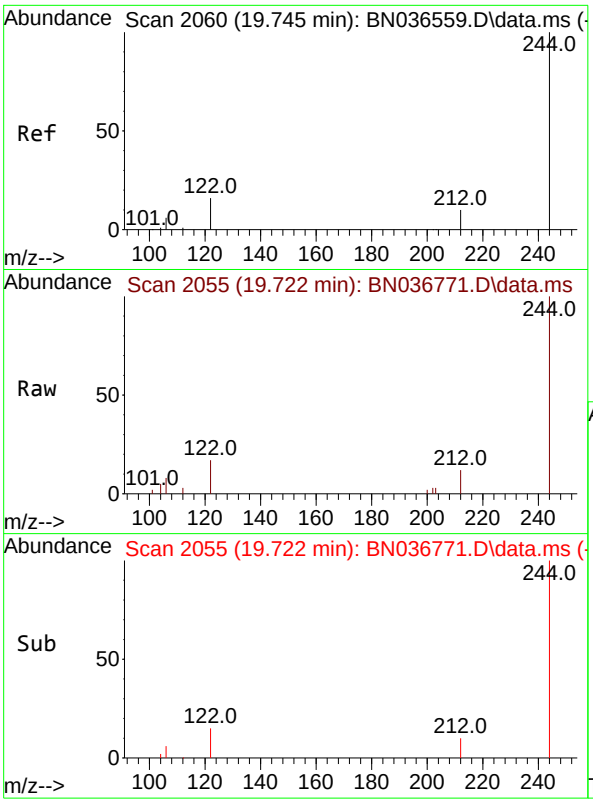


#30
Pyrene
Concen: 0.350 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:202 Resp: 7795

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.3	14.1	21.1



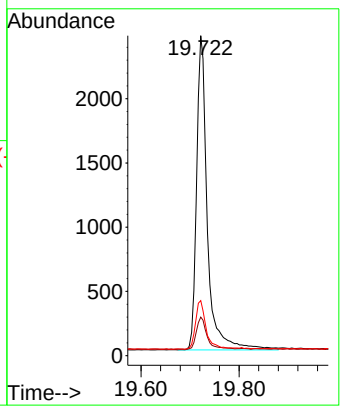


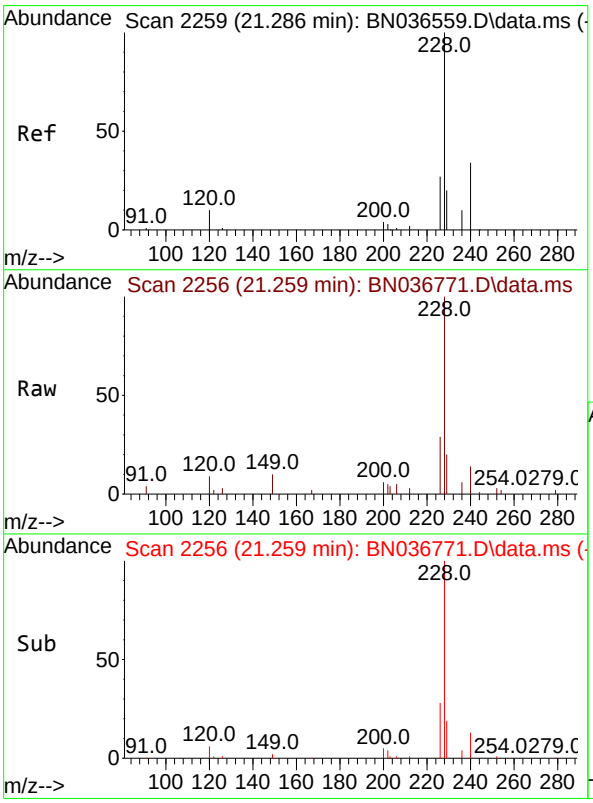
#31
Terphenyl-d14
Concen: 0.341 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3716

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.2	13.9	20.9

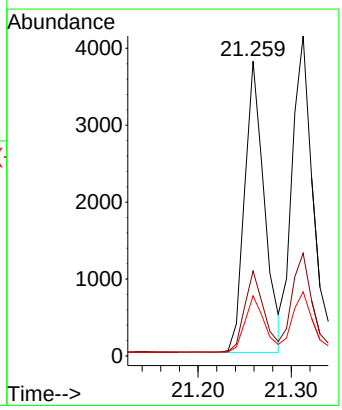


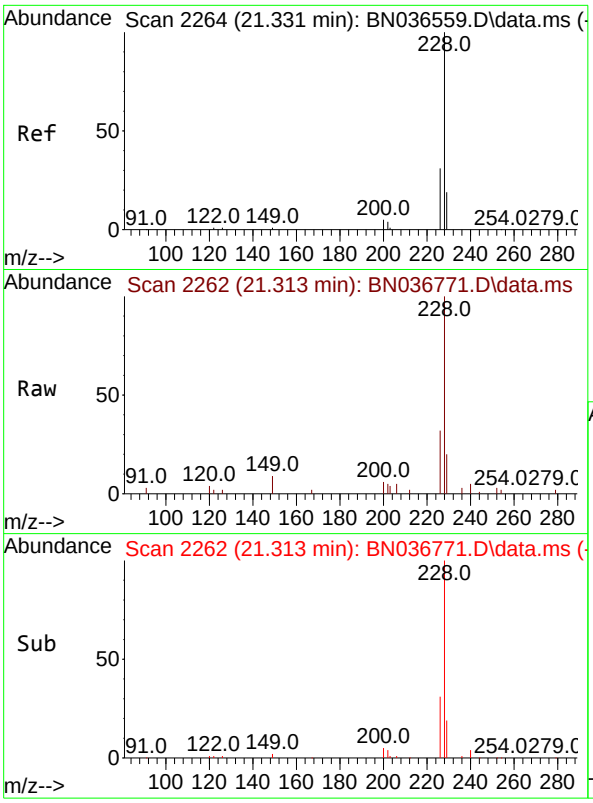


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 5566

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.4	16.6	25.0



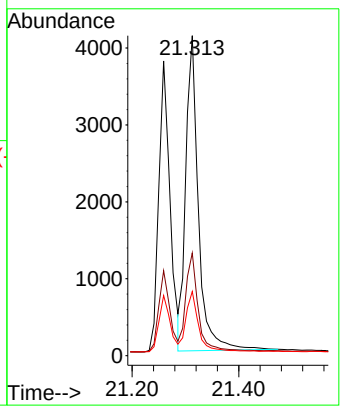


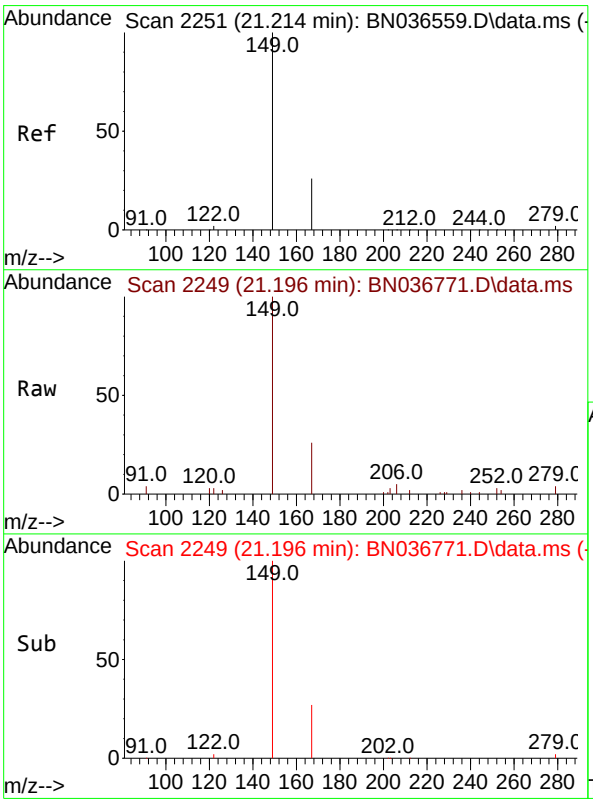
#33
Chrysene
Concen: 0.389 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 6726

Ion	Ratio	Lower	Upper
228	100		
226	32.1	25.3	37.9
229	20.0	15.8	23.8

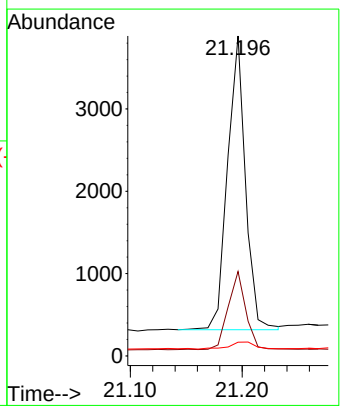


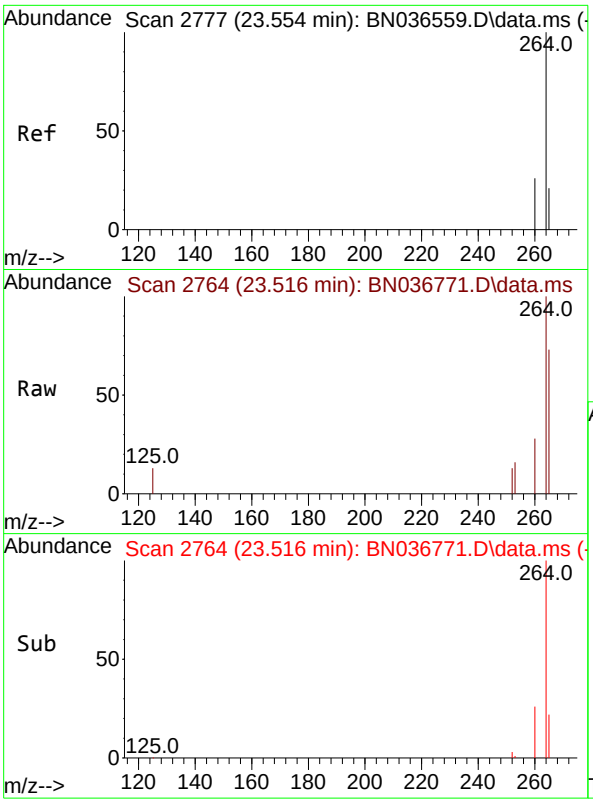


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:149 Resp: 3968

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.3	3.6	5.4#



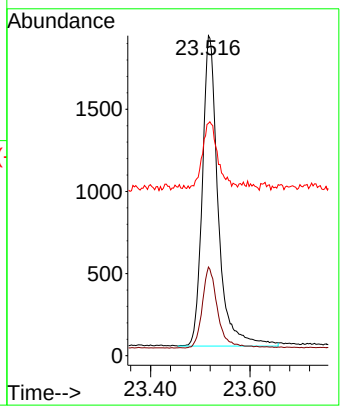


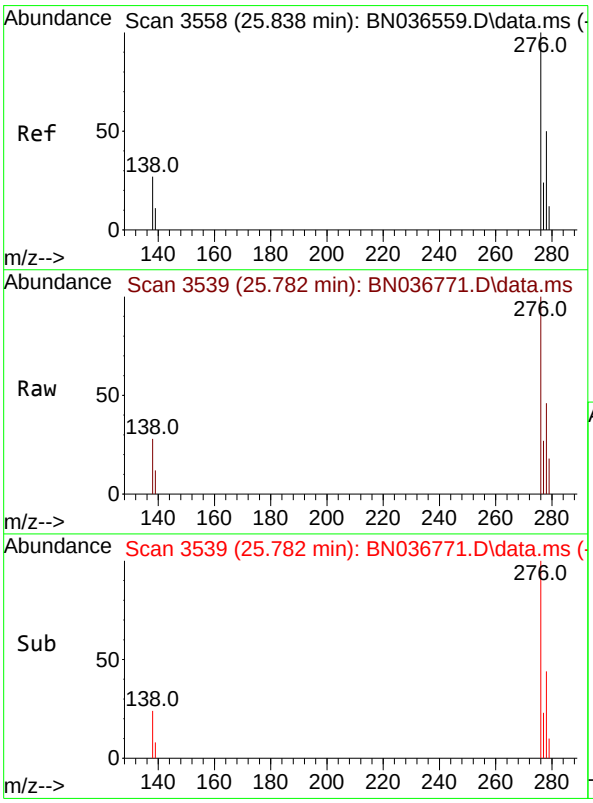
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 4167

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	72.6	88.1	132.1#

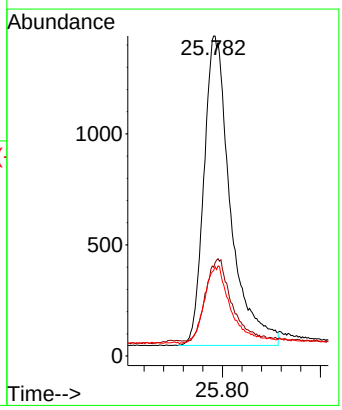


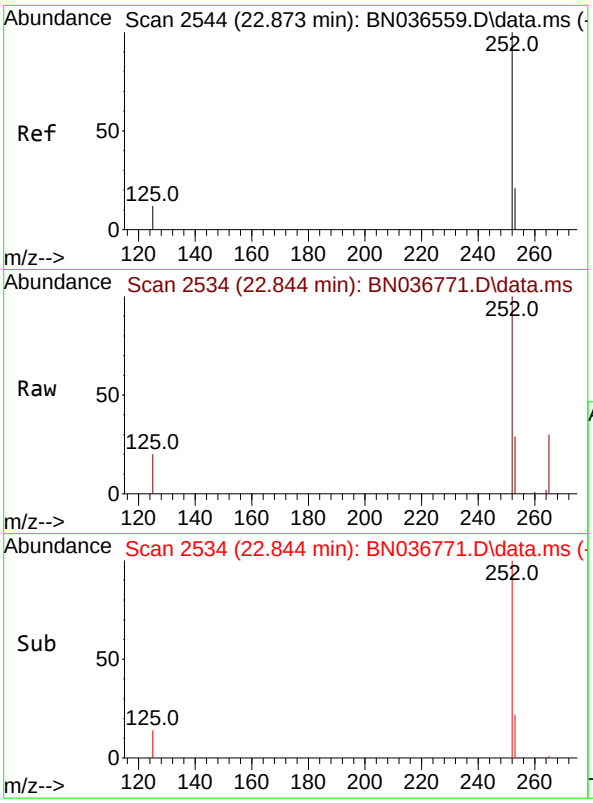


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.348 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:276 Resp: 5233

Ion	Ratio	Lower	Upper
276	100		
138	25.8	23.4	35.2
277	25.2	20.0	30.0



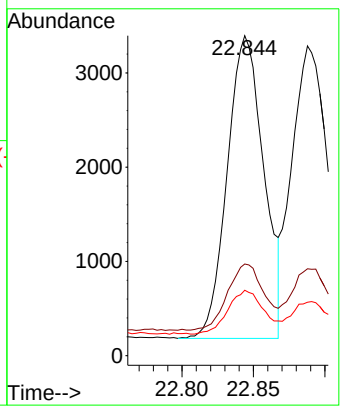


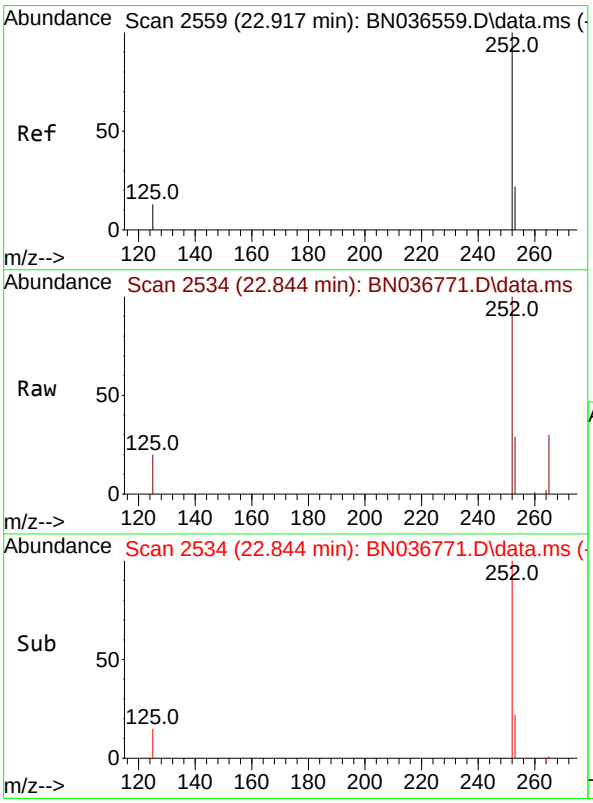
#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.844 min Scan# 2
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5720

Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.5	17.4	26.2

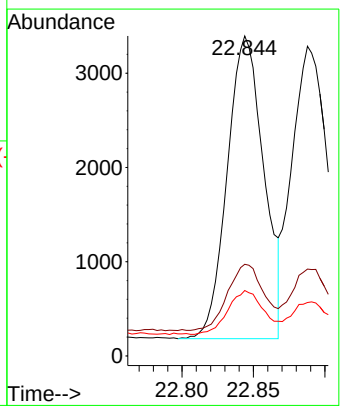


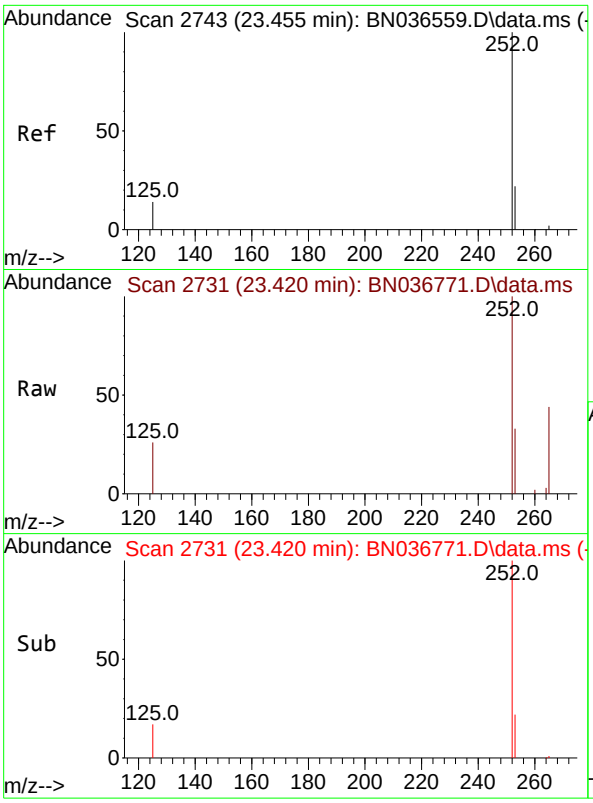


#38
Benzo(k)fluoranthene
Concen: 0.360 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.073 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:252 Resp: 5720

Ion	Ratio	Lower	Upper
252	100		
253	28.6	24.6	36.8
125	20.5	17.8	26.8



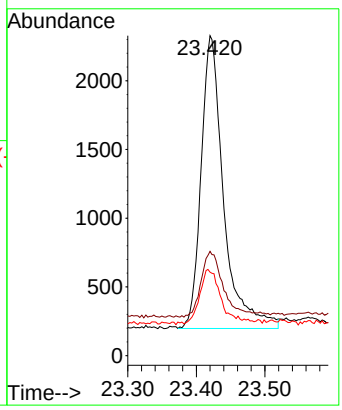


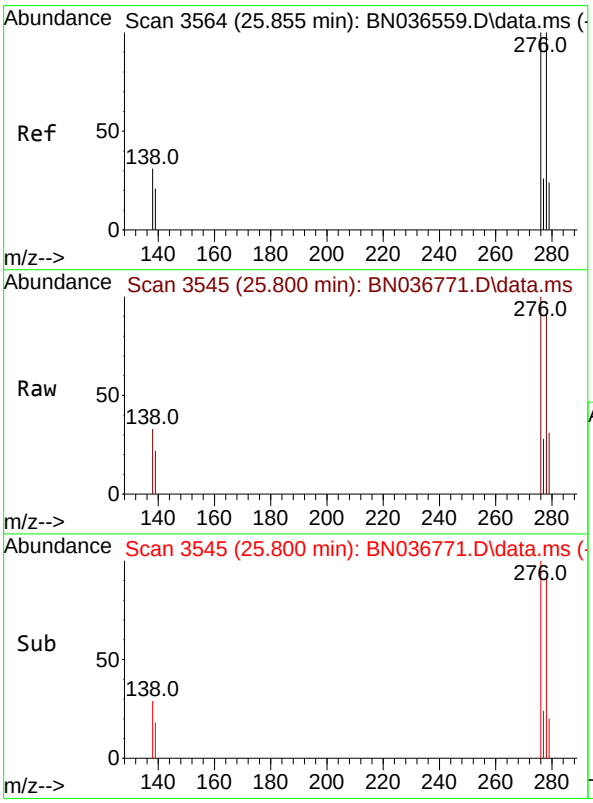
#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4867

Ion	Ratio	Lower	Upper
252	100		
253	32.6	27.8	41.8
125	26.1	22.7	34.1

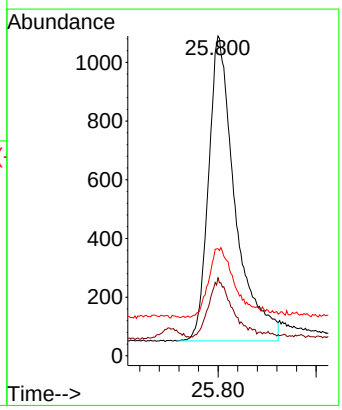


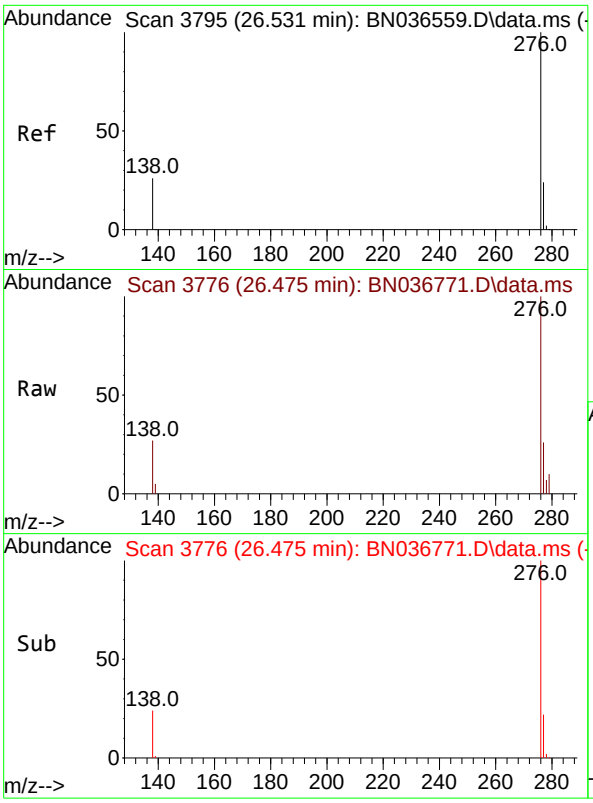


#40
Dibenzo(a,h)anthracene
Concen: 0.334 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:278 Resp: 3914

Ion	Ratio	Lower	Upper
278	100		
139	24.4	20.8	31.2
279	33.5	28.8	43.2



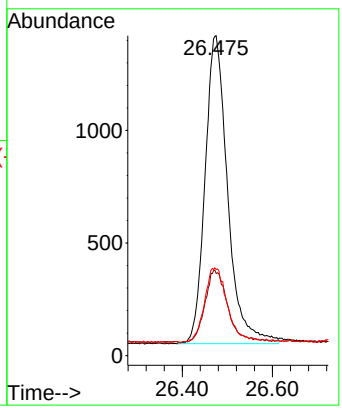


#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 26.475 min Scan# 3
Delta R.T. -0.055 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4758

Ion	Ratio	Lower	Upper
276	100		
277	25.7	22.2	33.4
138	27.0	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036782.D
Acq On : 28 Mar 2025 20:38
Operator : RC/JU
Sample : Q1608-28
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Quant Time: Mar 28 22:52:56 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

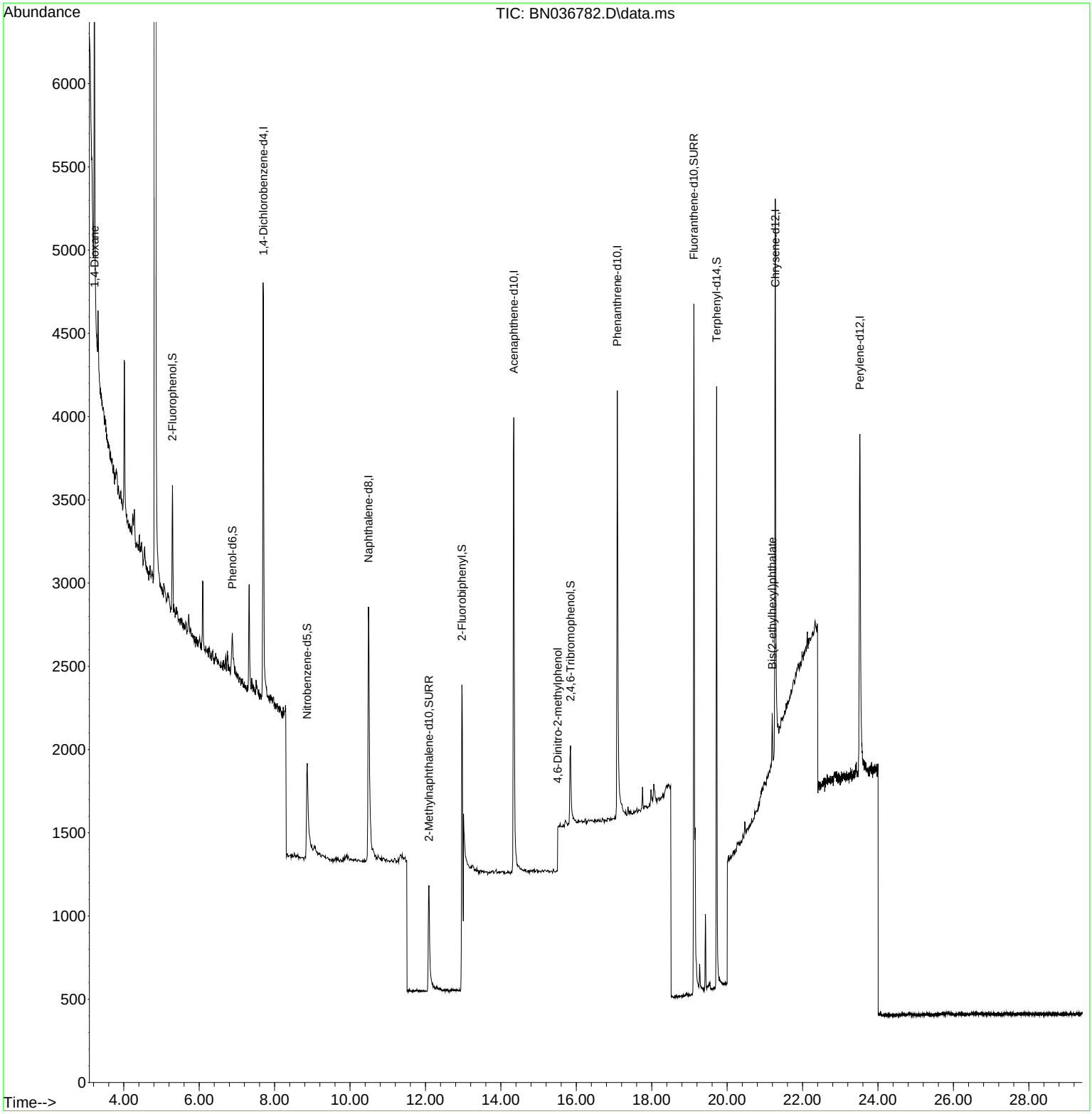
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1404	0.400	ng	-0.02
7) Naphthalene-d8	10.487	136	3144	0.400	ng	#-0.02
13) Acenaphthene-d10	14.345	164	2055	0.400	ng	-0.02
19) Phenanthrene-d10	17.086	188	4548	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	3753	0.400	ng	-0.02
35) Perylene-d12	23.519	264	3299	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	540	0.165	ng	-0.02
5) Phenol-d6	6.879	99	352	0.087	ng	-0.02
8) Nitrobenzene-d5	8.865	82	999	0.292	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1536	0.328	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	394	0.423	ng	-0.01
15) 2-Fluorobiphenyl	12.968	172	3596	0.301	ng	-0.02
27) Fluoranthene-d10	19.118	212	5312	0.456	ng	-0.02
31) Terphenyl-d14	19.722	244	3705	0.412	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	1116	0.717	ng	# 73
20) 4,6-Dinitro-2-methylph...	15.510	198	4	0.149	ng	# 9
34) Bis(2-ethylhexyl)phtha...	21.196	149	343	0.037	ng	# 96

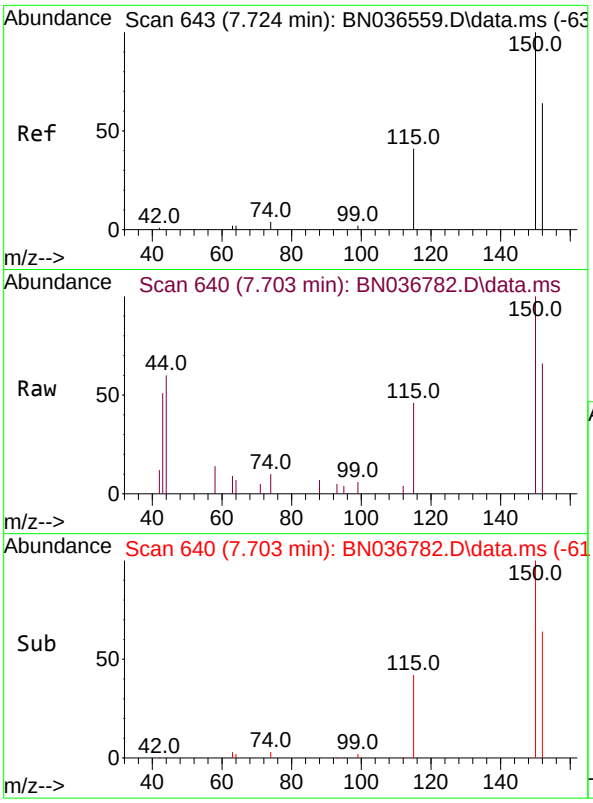
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036782.D
Acq On : 28 Mar 2025 20:38
Operator : RC/JU
Sample : Q1608-28
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Quant Time: Mar 28 22:52:56 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



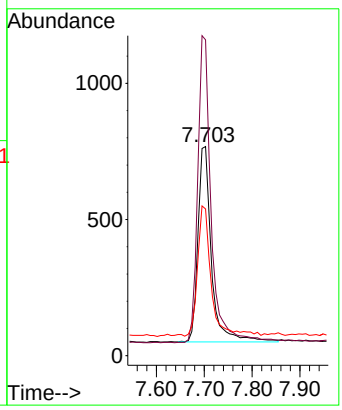


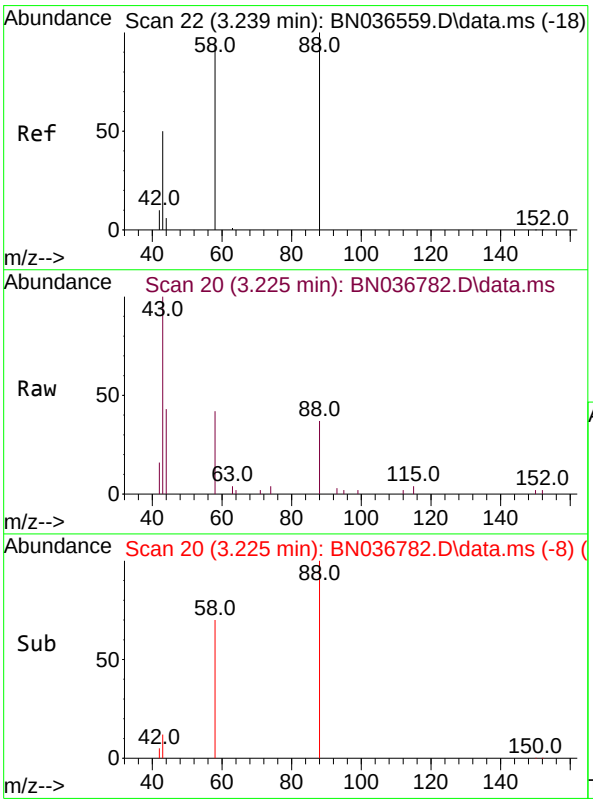
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:152 Resp: 1404

Ion	Ratio	Lower	Upper
152	100		
150	151.0	123.7	185.5
115	70.2	54.3	81.5

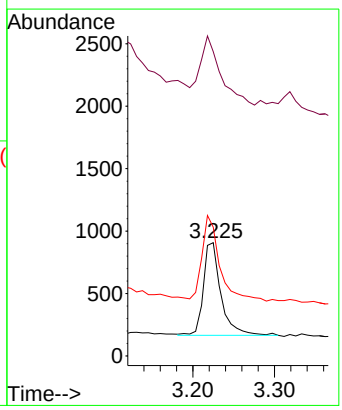


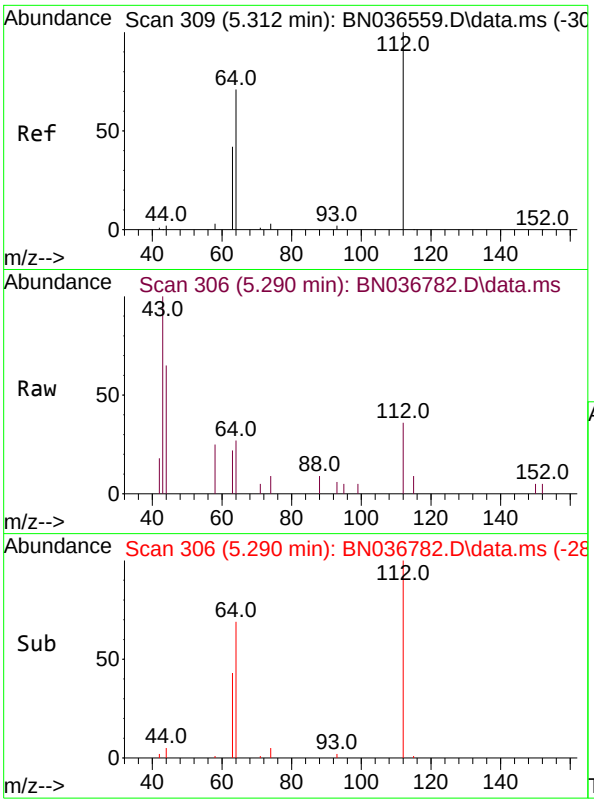


#2
1,4-Dioxane
Concen: 0.717 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion: 88 Resp: 1116

Ion	Ratio	Lower	Upper
88	100		
43	88.2	37.8	56.8#
58	91.2	67.4	101.2



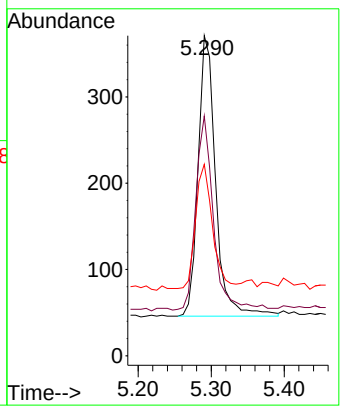


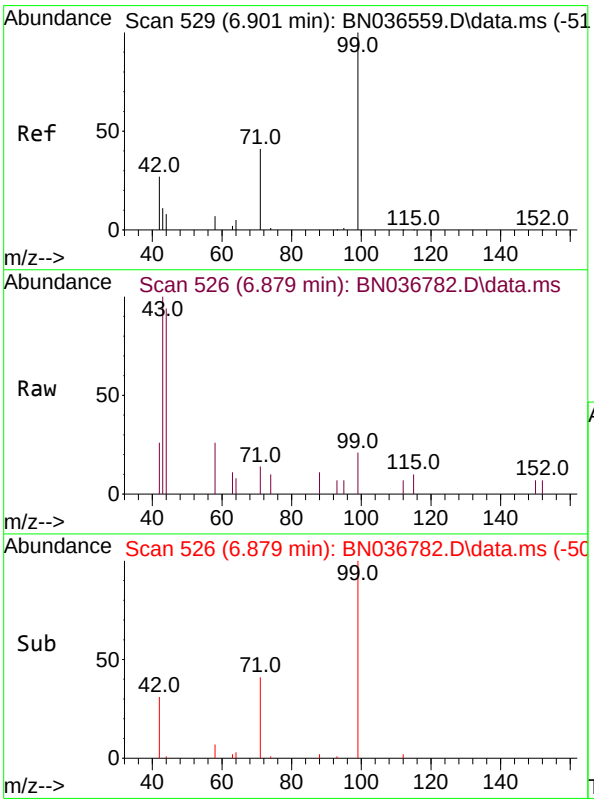
#4
2-Fluorophenol
Concen: 0.165 ng
RT: 5.290 min Scan# 3
Delta R.T. -0.022 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:112 Resp: 540

Ion	Ratio	Lower	Upper
112	100		
64	70.2	53.1	79.7
63	43.3	31.8	47.8

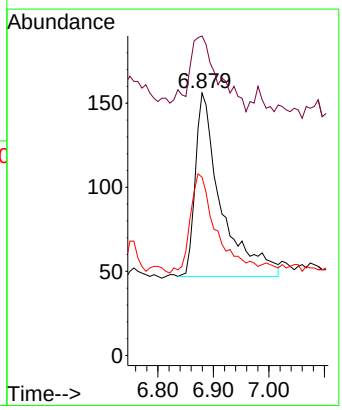


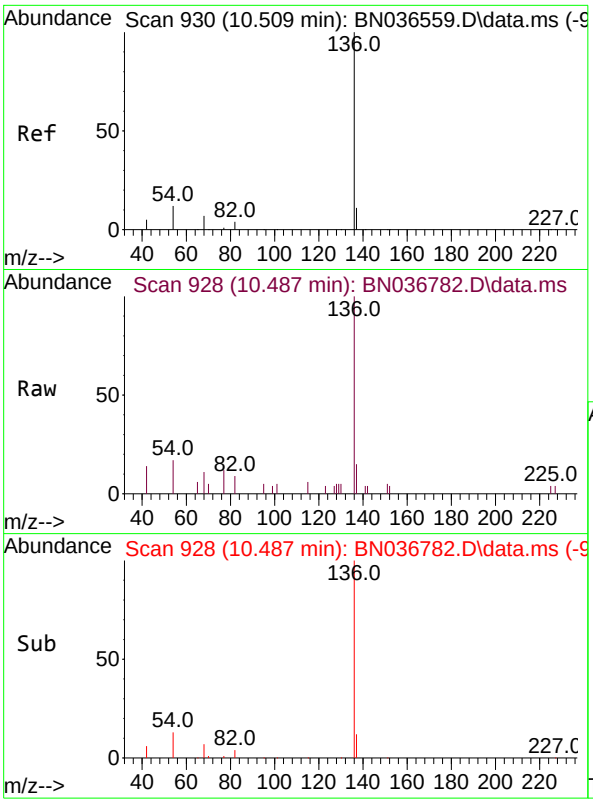


#5
Phenol-d6
Concen: 0.087 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion: 99 Resp: 352

Ion	Ratio	Lower	Upper
99	100		
42	47.4	26.5	39.7#
71	54.8	34.1	51.1#



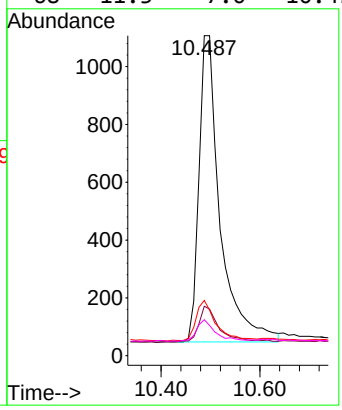


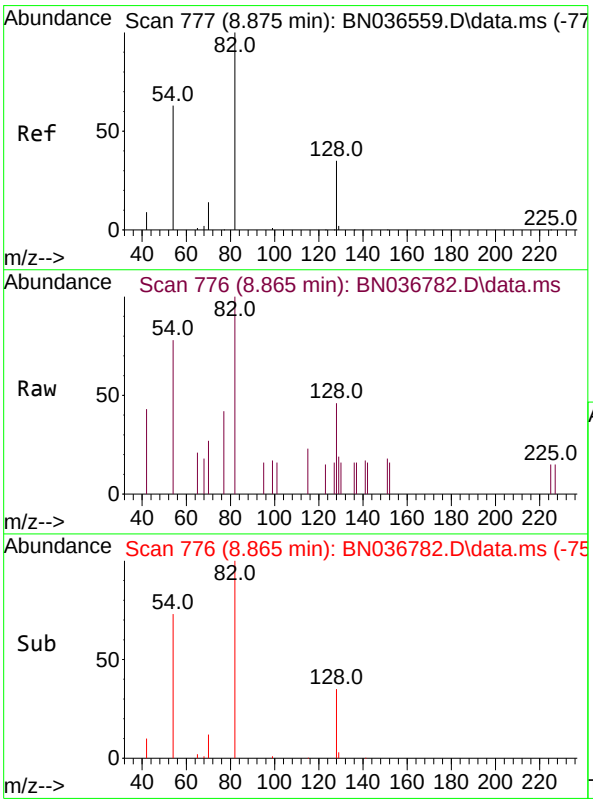
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:136 Resp: 3144

Ion	Ratio	Lower	Upper
136	100		
137	15.4	10.3	15.5
54	17.3	11.5	17.3
68	11.3	7.0	10.4#

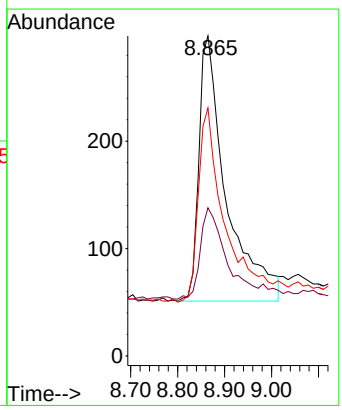


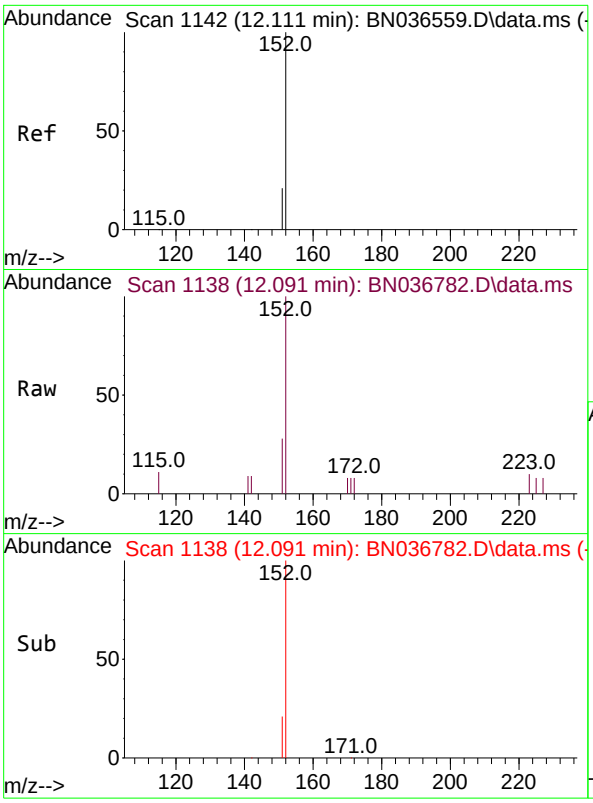


#8
Nitrobenzene-d5
Concen: 0.292 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion: 82 Resp: 999

Ion	Ratio	Lower	Upper
82	100		
128	46.3	30.6	45.8#
54	77.5	52.2	78.4



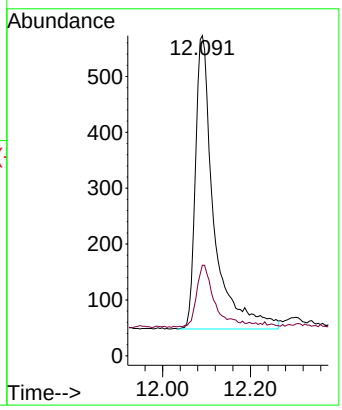


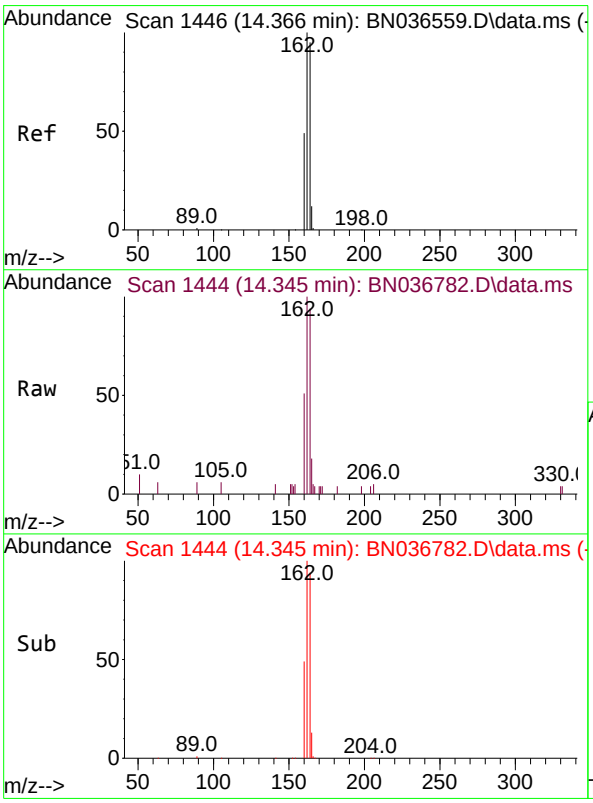
#11
2-Methylnaphthalene-d10
Concen: 0.328 ng
RT: 12.091 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:152 Resp: 1536

Ion	Ratio	Lower	Upper
152	100		
151	19.7	17.0	25.6

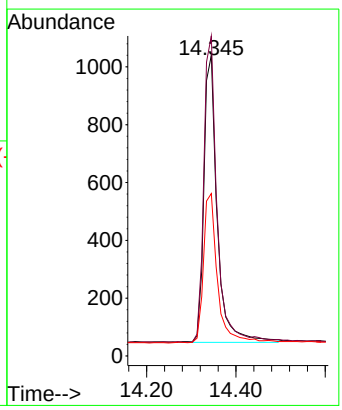


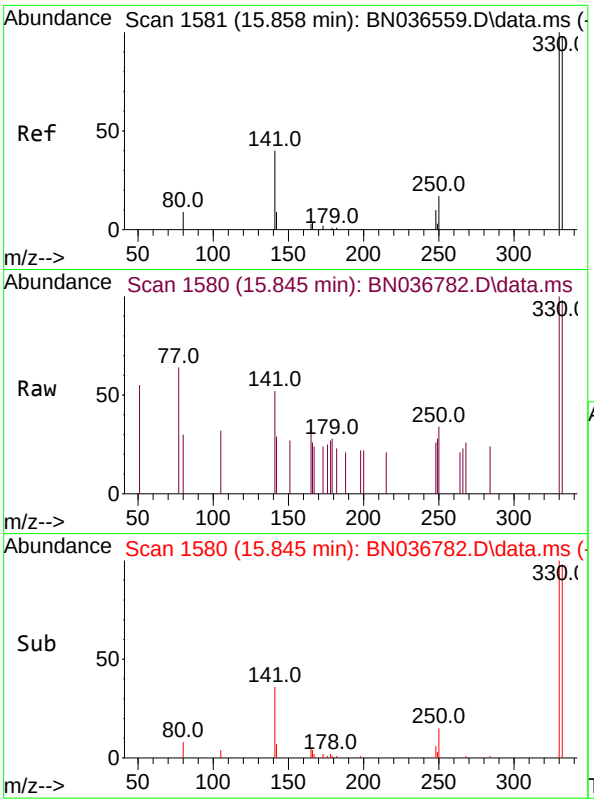


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.021 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:164 Resp: 2055

Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.2
160	54.0	42.2	63.2



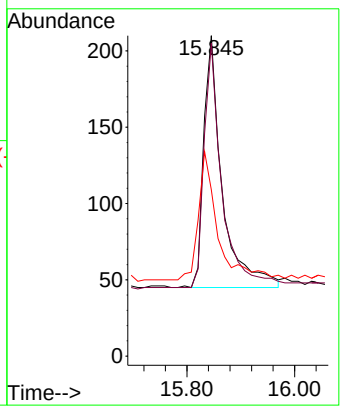


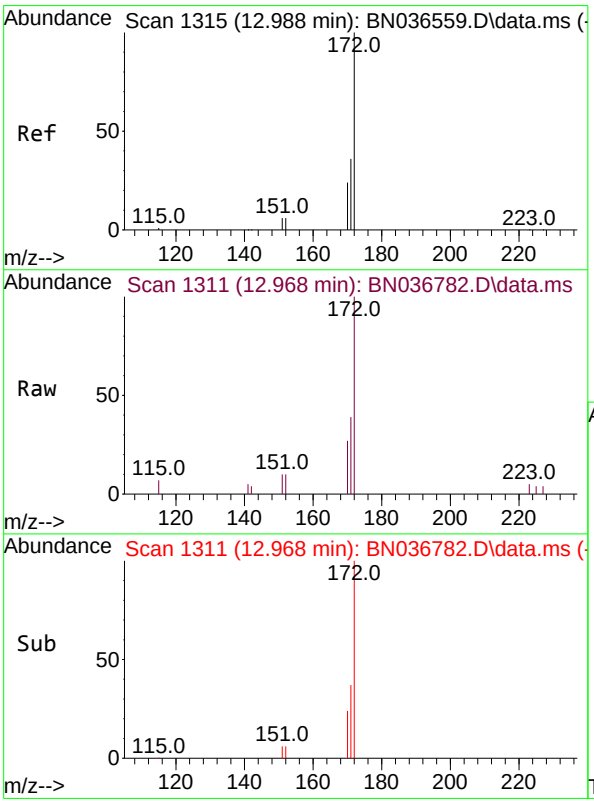
#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:330 Resp: 394

Ion	Ratio	Lower	Upper
330	100		
332	94.2	75.2	112.8
141	53.0	43.4	65.2

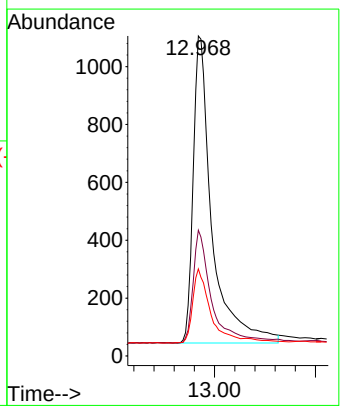


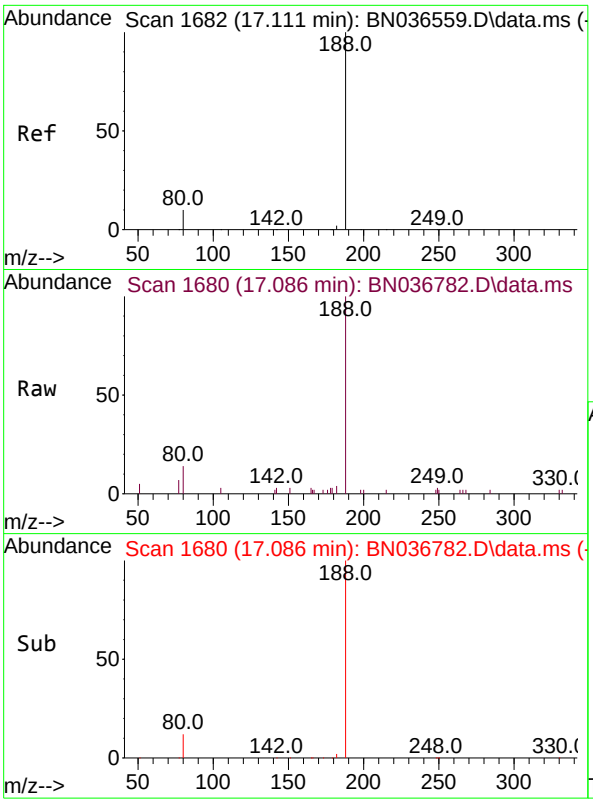


#15
2-Fluorobiphenyl
Concen: 0.301 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.020 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:172 Resp: 3596

Ion	Ratio	Lower	Upper
172	100		
171	39.3	29.5	44.3
170	27.2	20.2	30.4



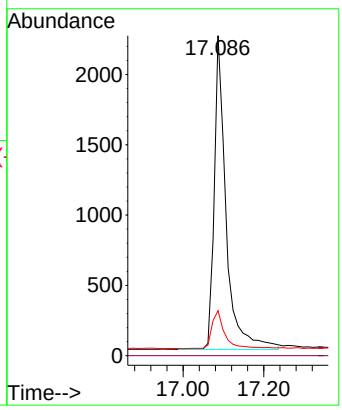


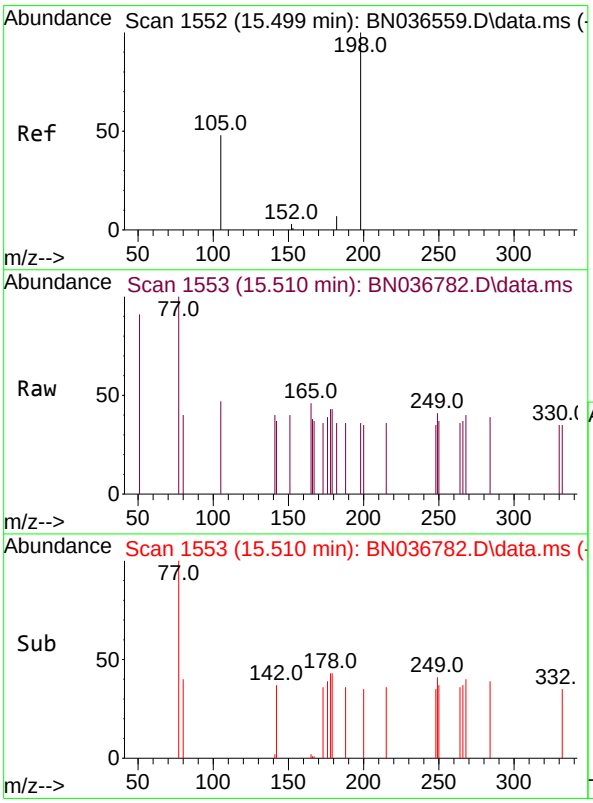
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:188 Resp: 4548

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	8.8	13.2#

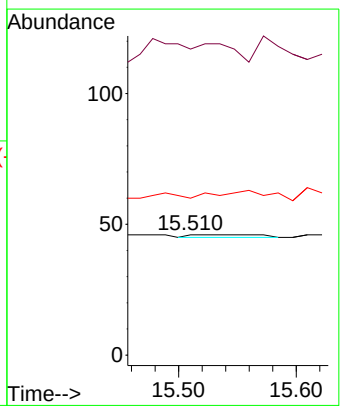


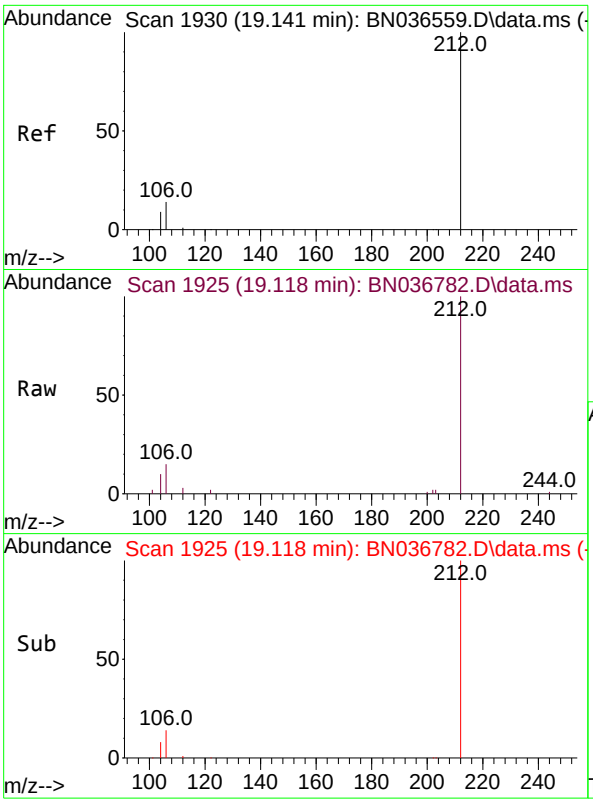


#20
4,6-Dinitro-2-methylphenol
Concen: 0.149 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:198 Resp: 4

Ion	Ratio	Lower	Upper
198	100		
51	254.3	107.9	161.9#
105	130.4	56.2	84.2#



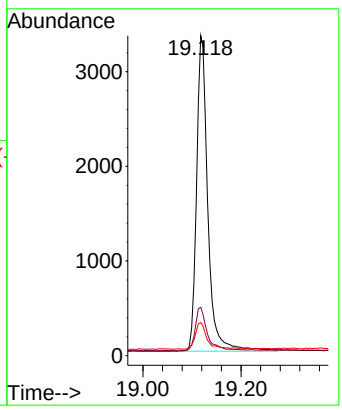


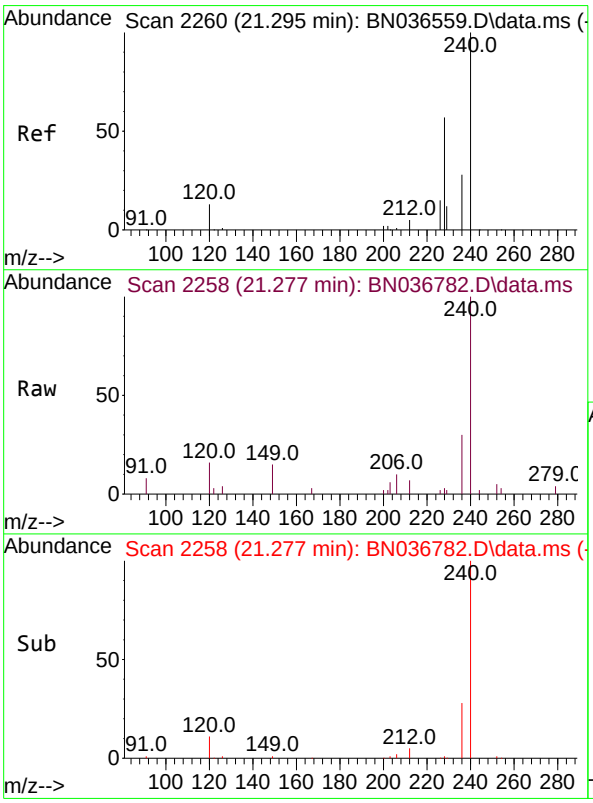
#27
Fluoranthene-d10
Concen: 0.456 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:212 Resp: 5312

Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.8	17.6
104	8.6	7.3	10.9

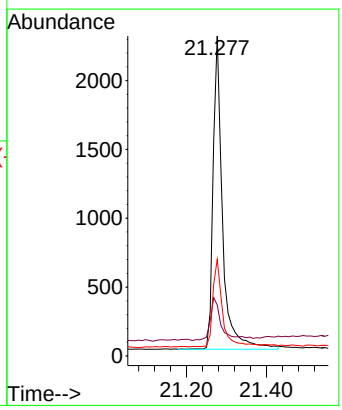


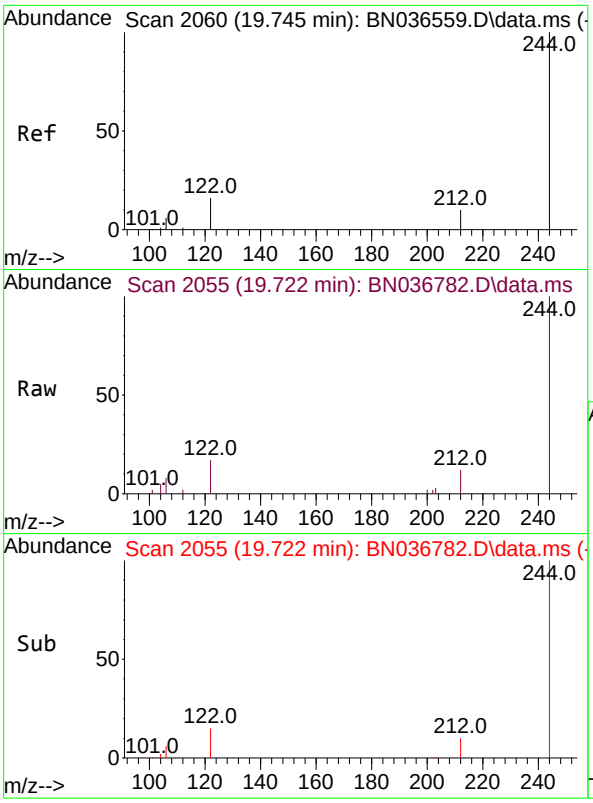


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:240 Resp: 3753

Ion	Ratio	Lower	Upper
240	100		
120	16.0	14.6	22.0
236	30.2	24.1	36.1



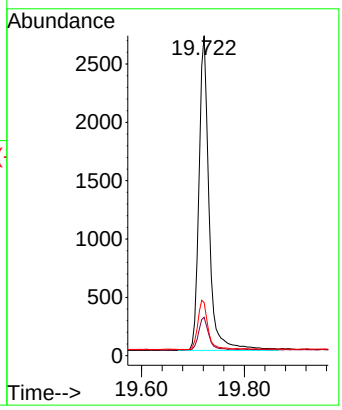


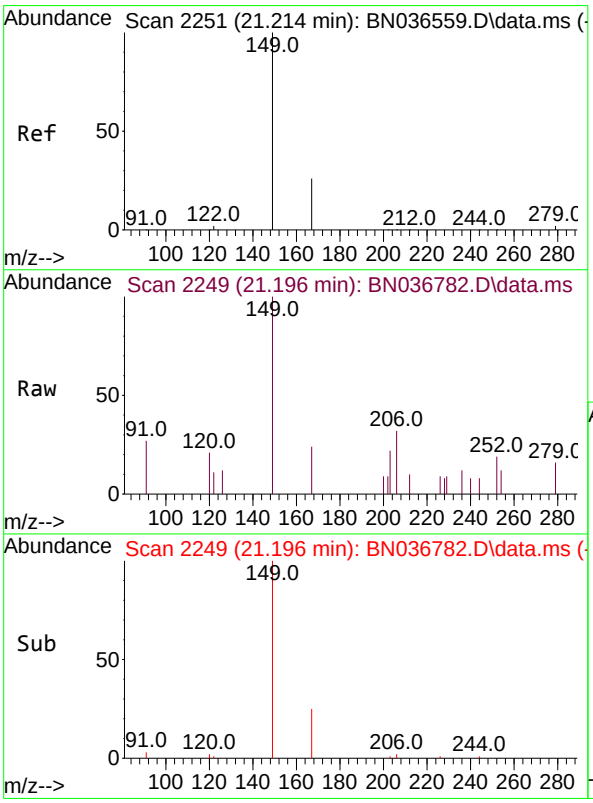
#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:244 Resp: 3705

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	16.6	13.9	20.9

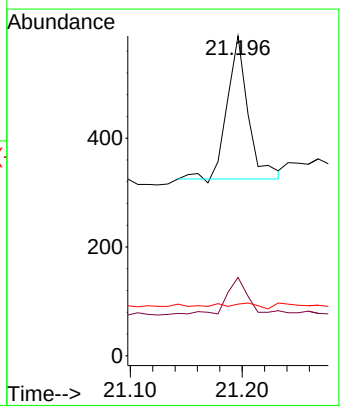


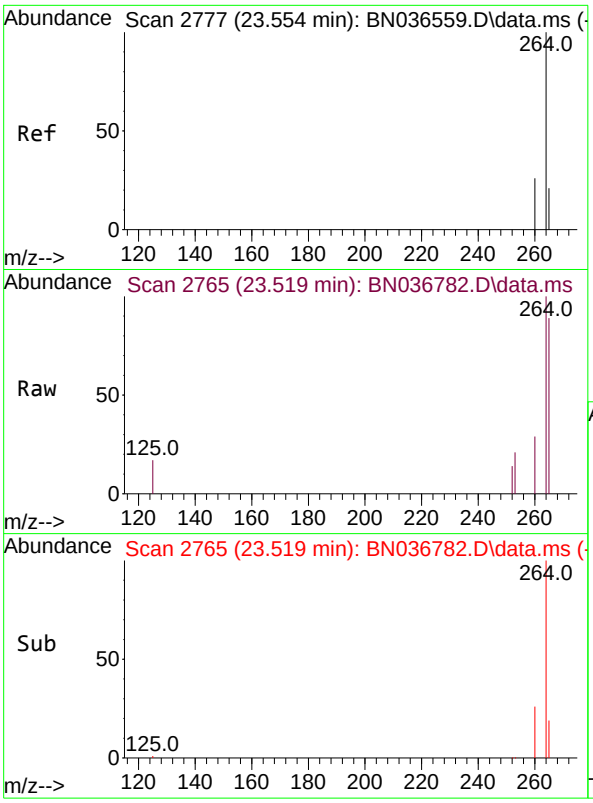


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.037 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Tgt Ion:149 Resp: 343

Ion	Ratio	Lower	Upper
149	100		
167	23.9	20.7	31.1
279	6.4	3.6	5.4#



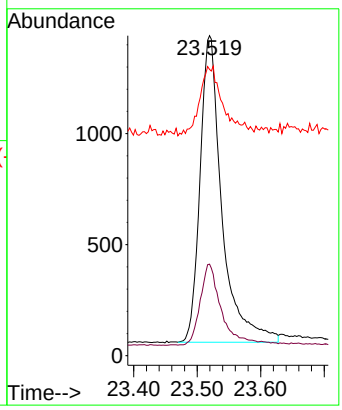


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036782.D
Acq: 28 Mar 2025 20:38

Instrument :
BNA_N
ClientSampleId :
DUP09-20250319

Tgt Ion:264 Resp: 3299

Ion	Ratio	Lower	Upper
264	100		
260	28.6	22.6	33.8
265	89.5	88.1	132.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036787.D
Acq On : 28 Mar 2025 23:38
Operator : RC/JU
Sample : PB167251BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Quant Time: Mar 31 10:41:54 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 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1517	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3731	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2164	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4675	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3635	0.400	ng	#-0.02
35) Perylene-d12	23.516	264	3061	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1565	0.443	ng	-0.02
5) Phenol-d6	6.872	99	1831	0.419	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1471	0.362	ng	-0.03
11) 2-Methylnaphthalene-d10	12.080	152	3096	0.558	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	402	0.409	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4848	0.385	ng	-0.03
27) Fluoranthene-d10	19.118	212	4771	0.398	ng	-0.02
31) Terphenyl-d14	19.722	244	3358	0.386	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	573	0.340	ng	# 36
3) n-Nitrosodimethylamine	3.535	42	1554	0.456	ng	# 93
6) bis(2-Chloroethyl)ether	7.125	93	1795	0.398	ng	96
9) Naphthalene	10.530	128	4490	0.409	ng	99
10) Hexachlorobutadiene	10.818	225	1081	0.418	ng	# 96
12) 2-Methylnaphthalene	12.151	142	2927	0.419	ng	99
16) Acenaphthylene	14.056	152	4615	0.452	ng	98
17) Acenaphthene	14.398	154	2946	0.441	ng	99
18) Fluorene	15.392	166	3928	0.434	ng	98
20) 4,6-Dinitro-2-methylph...	15.478	198	374	0.459	ng	84
21) 4-Bromophenyl-phenylether	16.279	248	1254	0.428	ng	91
22) Hexachlorobenzene	16.391	284	1431	0.405	ng	94
23) Atrazine	16.553	200	1102	0.469	ng	97
24) Pentachlorophenol	16.739	266	918	0.569	ng	96
25) Phenanthrene	17.124	178	6323	0.451	ng	100
26) Anthracene	17.223	178	5693	0.450	ng	99
28) Fluoranthene	19.150	202	7014	0.445	ng	98
30) Pyrene	19.513	202	7319	0.412	ng	99
32) Benzo(a)anthracene	21.259	228	5474	0.433	ng	99
33) Chrysene	21.313	228	6453	0.467	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3700	0.411	ng	99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5268	0.477	ng	# 82
37) Benzo(b)fluoranthene	22.841	252	5149	0.462	ng	96
38) Benzo(k)fluoranthene	22.841	252	5149	0.441	ng	94
39) Benzo(a)pyrene	23.420	252	4679	0.499	ng	# 93
40) Dibenzo(a,h)anthracene	25.802	278	3944	0.459	ng	95
41) Benzo(g,h,i)perylene	26.472	276	4262	0.433	ng	96

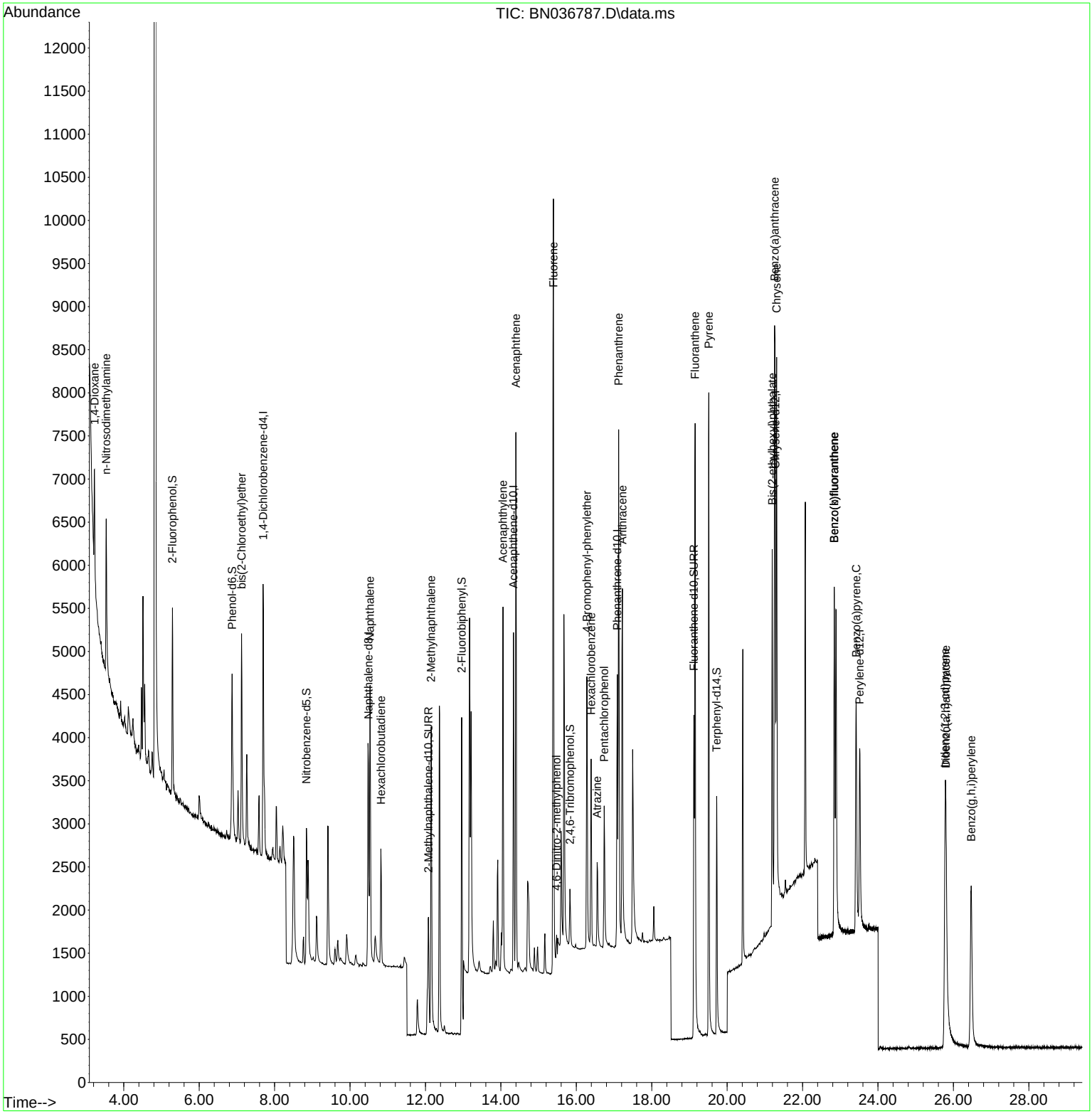
(#) = qualifier out of range (m) = manual integration (+) = signals summed

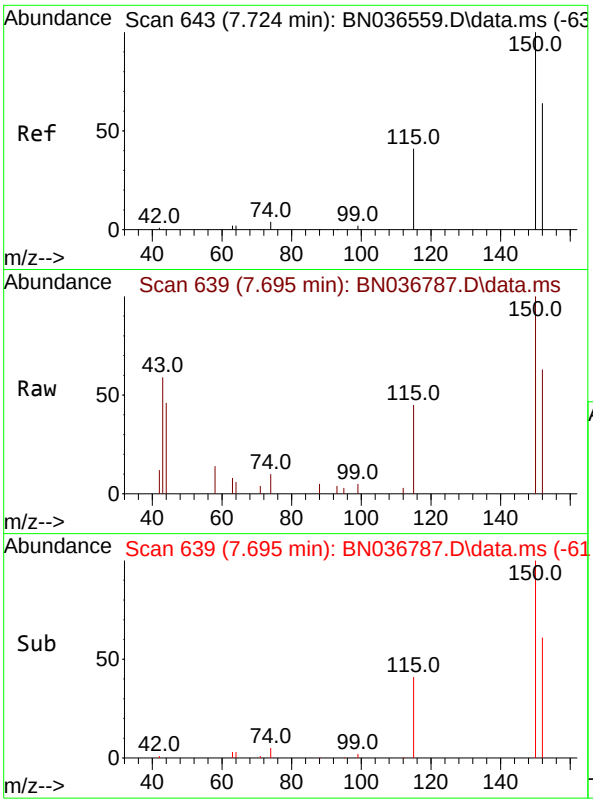
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036787.D
Acq On : 28 Mar 2025 23:38
Operator : RC/JU
Sample : PB167251BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Quant Time: Mar 31 10:41:54 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 16:06:28 2025
Response via : Initial Calibration



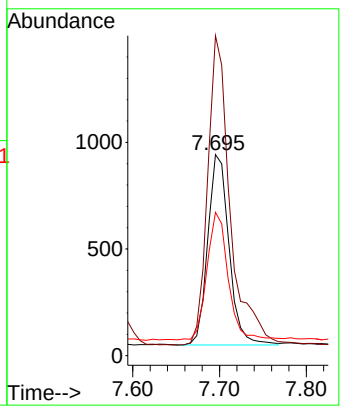


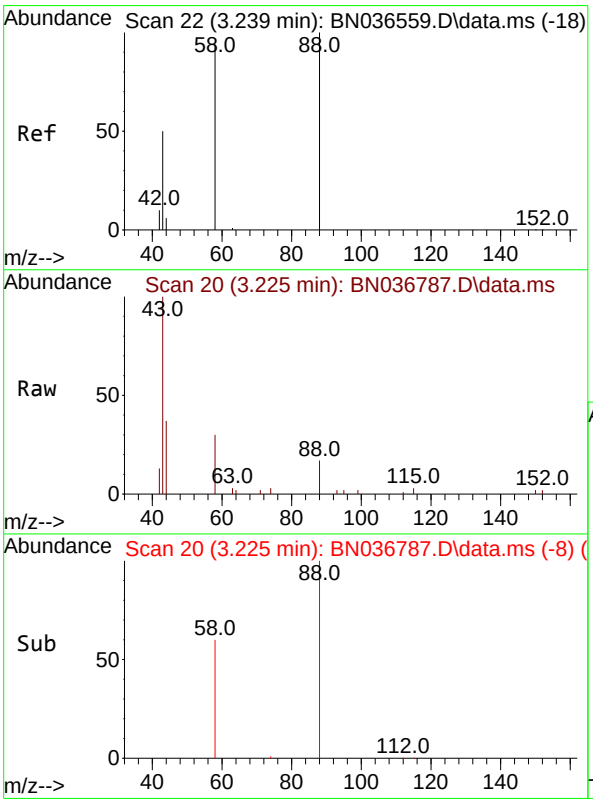
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:152 Resp: 1517

Ion	Ratio	Lower	Upper
152	100		
150	159.1	123.7	185.5
115	71.3	54.3	81.5

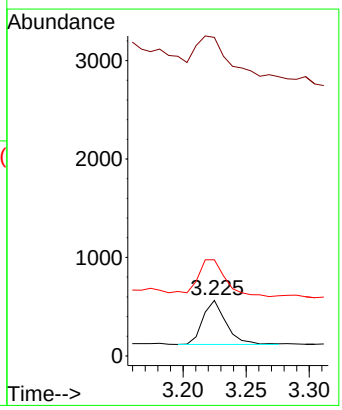


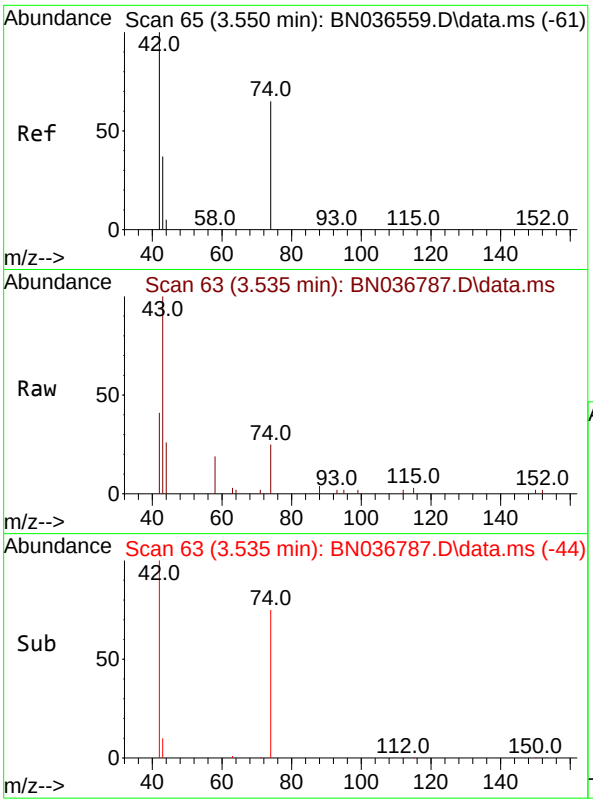


#2
1,4-Dioxane
Concen: 0.340 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion: 88 Resp: 573

Ion	Ratio	Lower	Upper
88	100		
43	142.4	37.8	56.8#
58	103.3	67.4	101.2#



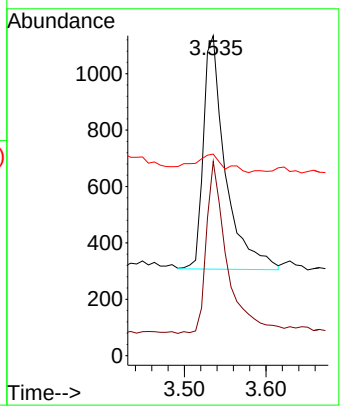


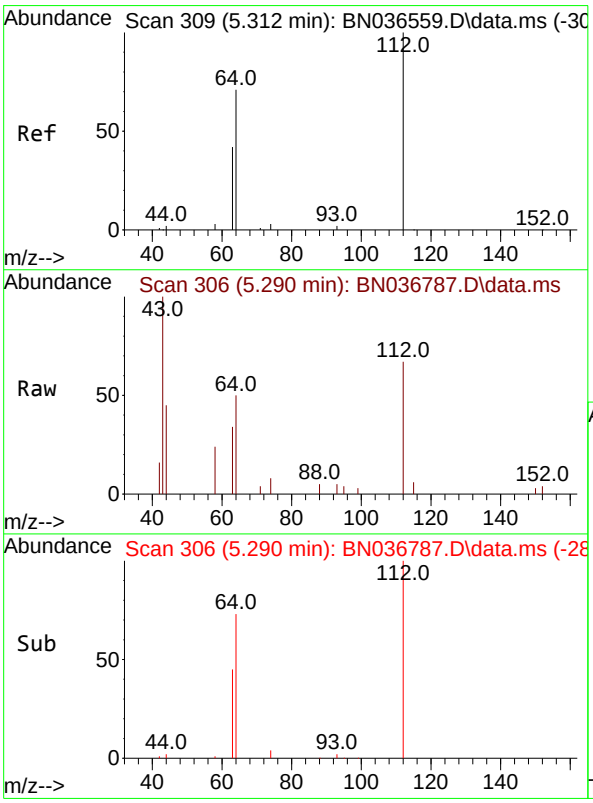
#3
n-Nitrosodimethylamine
Concen: 0.456 ng
RT: 3.535 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion: 42 Resp: 1554

Ion	Ratio	Lower	Upper
42	100		
74	69.8	60.6	90.8
44	11.2	6.3	9.5#

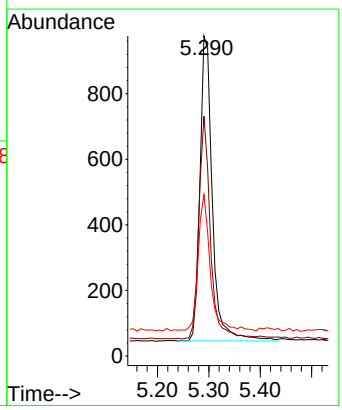


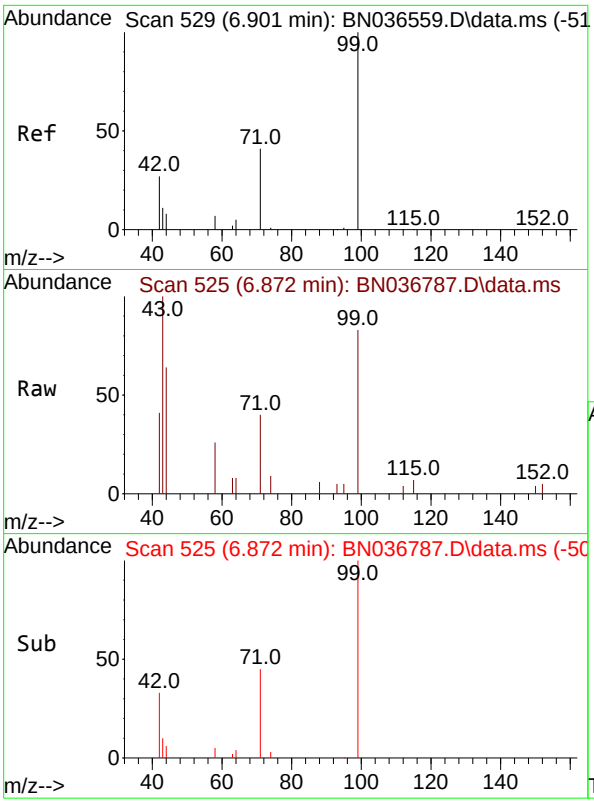


#4
2-Fluorophenol
Concen: 0.443 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:112 Resp: 1565

Ion	Ratio	Lower	Upper
112	100		
64	67.7	53.1	79.7
63	43.3	31.8	47.8



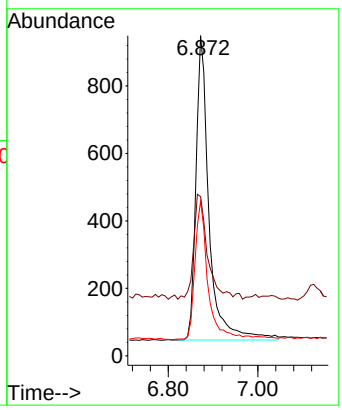


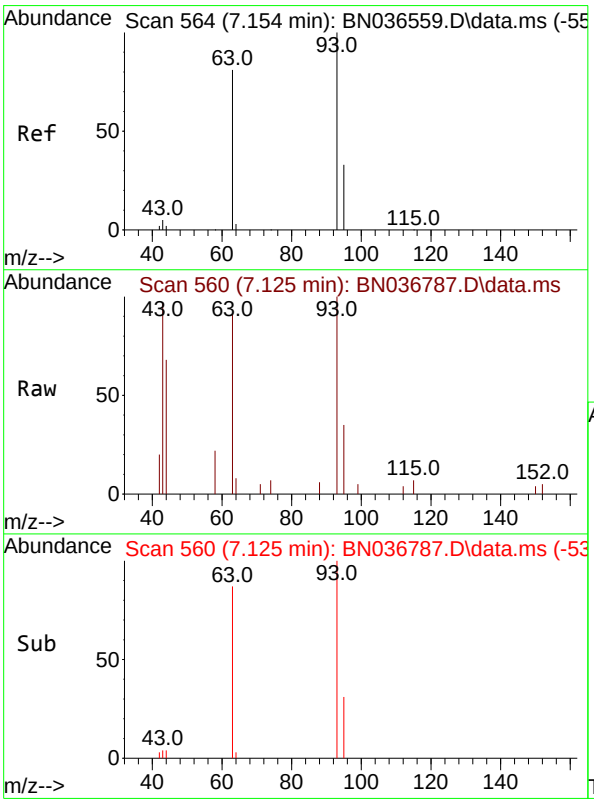
#5
Phenol-d6
Concen: 0.419 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion: 99 Resp: 1831

Ion	Ratio	Lower	Upper
99	100		
42	36.2	26.5	39.7
71	46.7	34.1	51.1

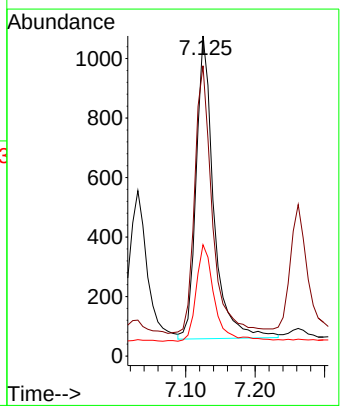


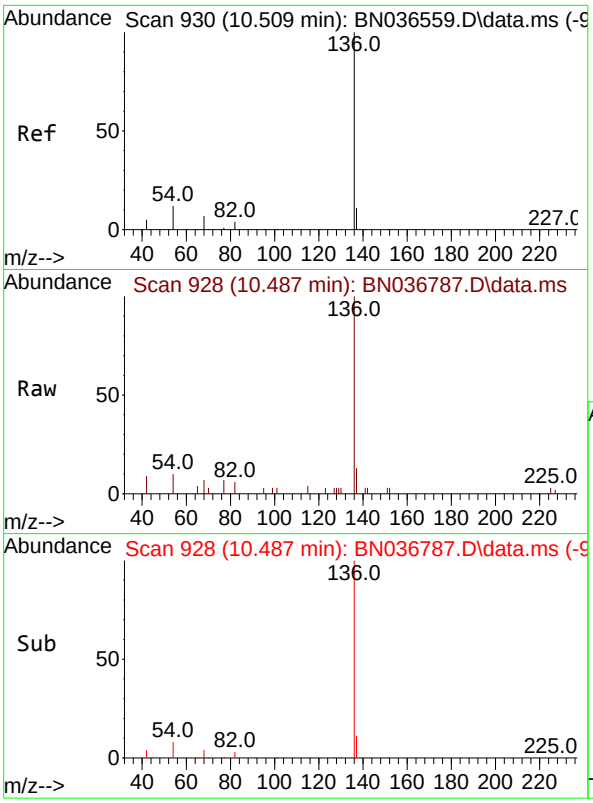


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion: 93 Resp: 1795

Ion	Ratio	Lower	Upper
93	100		
63	88.7	67.7	101.5
95	33.2	25.6	38.4



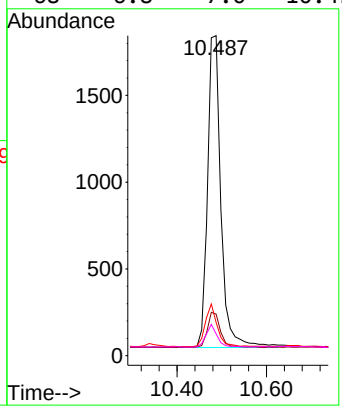


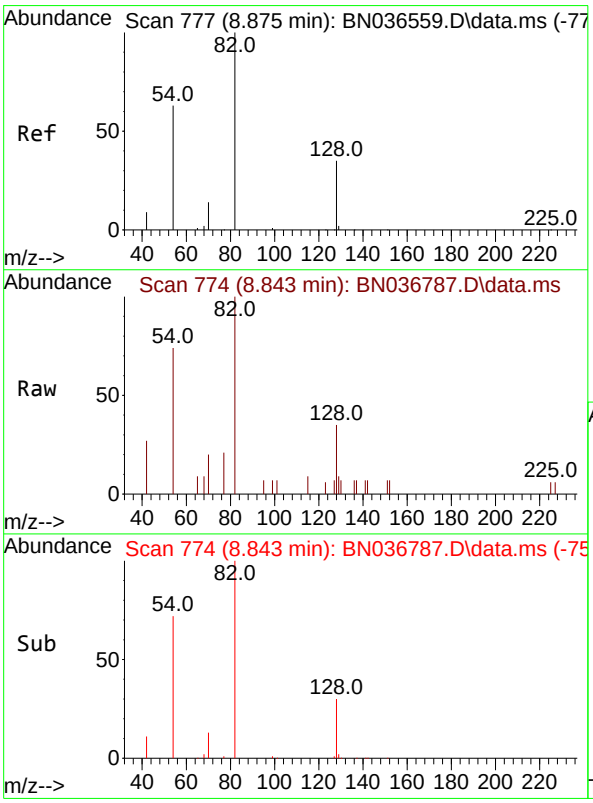
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:136 Resp: 3731

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	10.4	11.5	17.3#
68	6.8	7.0	10.4#

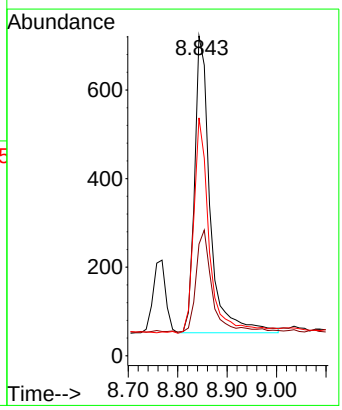


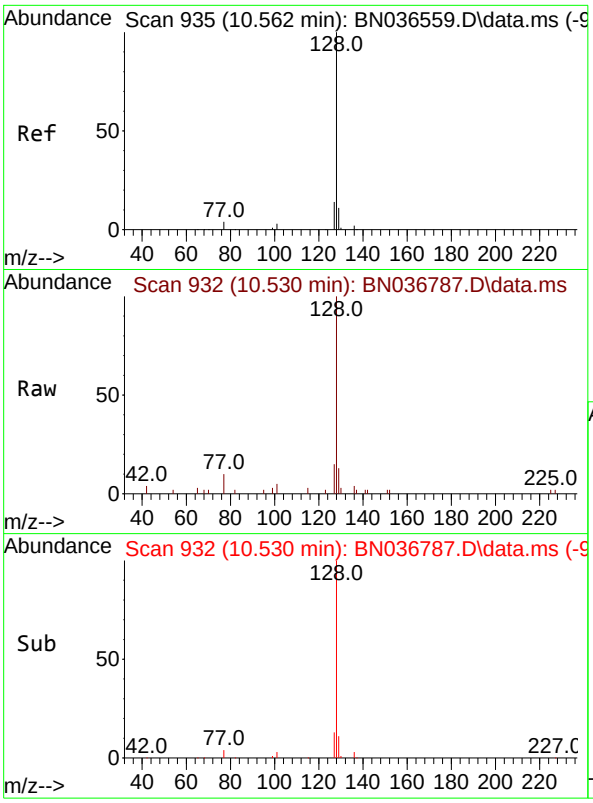


#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion: 82 Resp: 1471

Ion	Ratio	Lower	Upper
82	100		
128	34.9	30.6	45.8
54	74.4	52.2	78.4



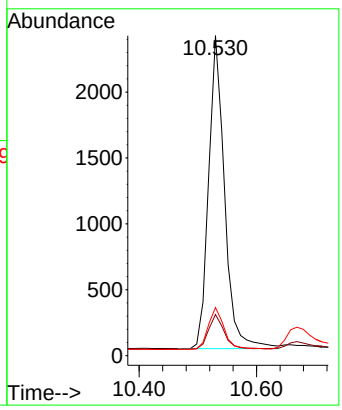


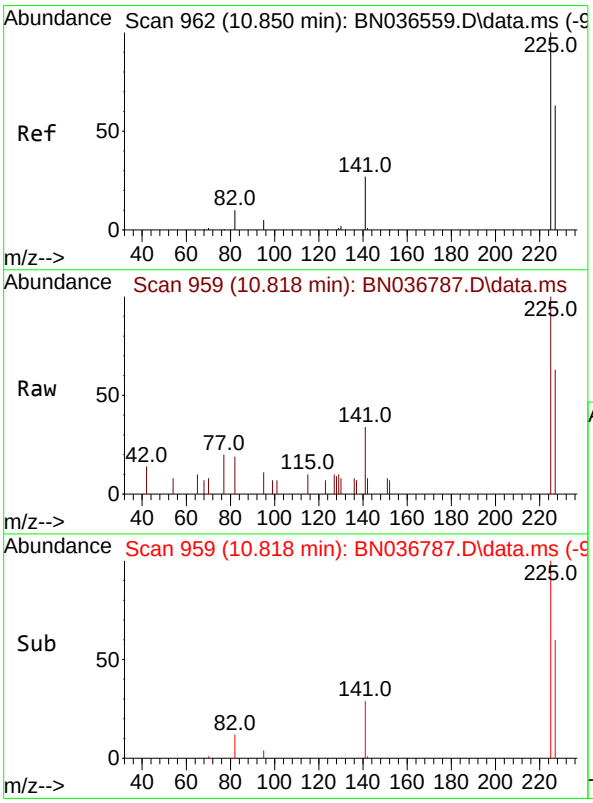
#9
Naphthalene
Concen: 0.409 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:128 Resp: 4490

Ion	Ratio	Lower	Upper
128	100		
129	12.9	9.8	14.6
127	15.0	11.8	17.8

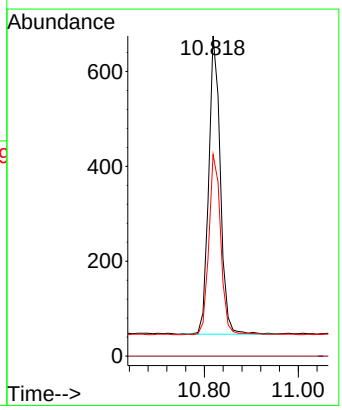


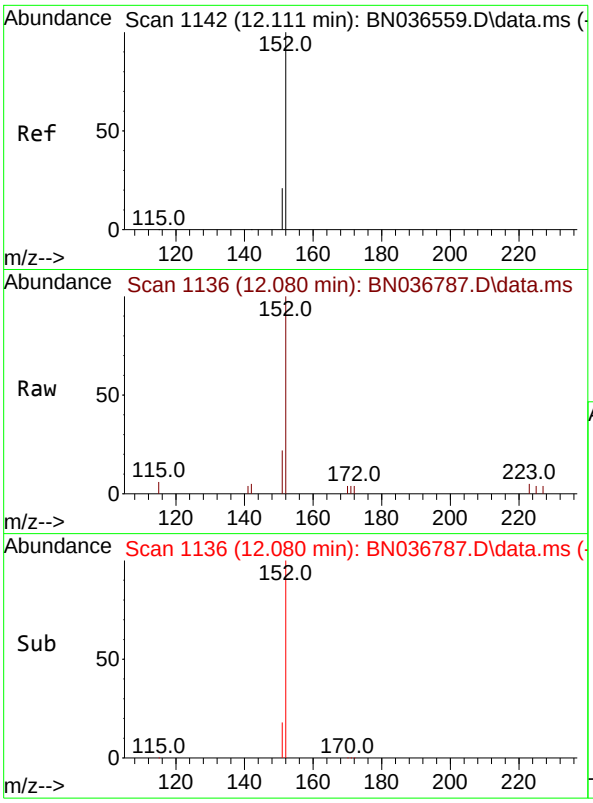


#10
Hexachlorobutadiene
Concen: 0.418 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:225 Resp: 1081

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.9	51.8	77.8



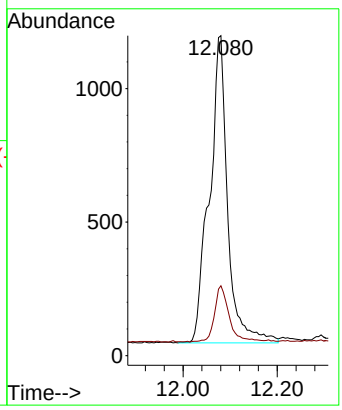


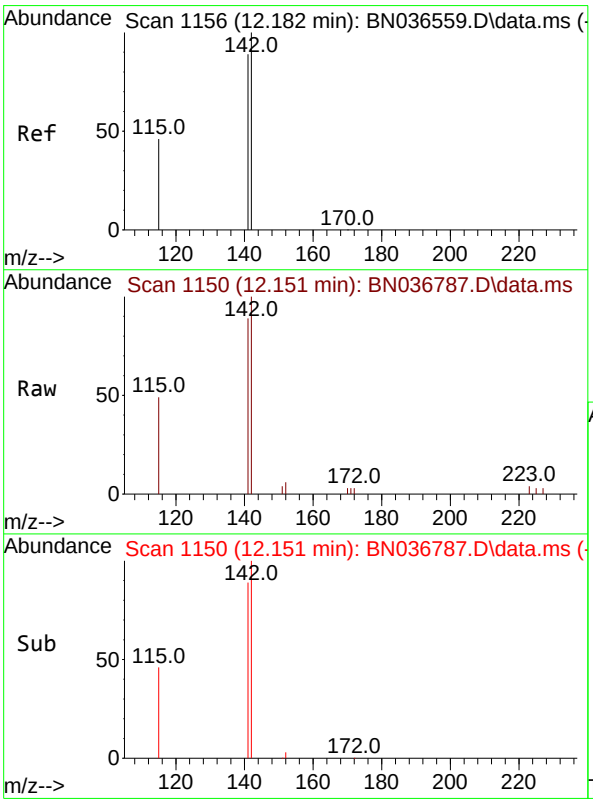
#11
2-Methylnaphthalene-d10
Concen: 0.558 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:152 Resp: 3096

Ion	Ratio	Lower	Upper
152	100		
151	14.8	17.0	25.6#

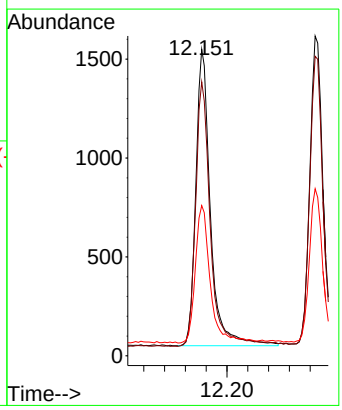


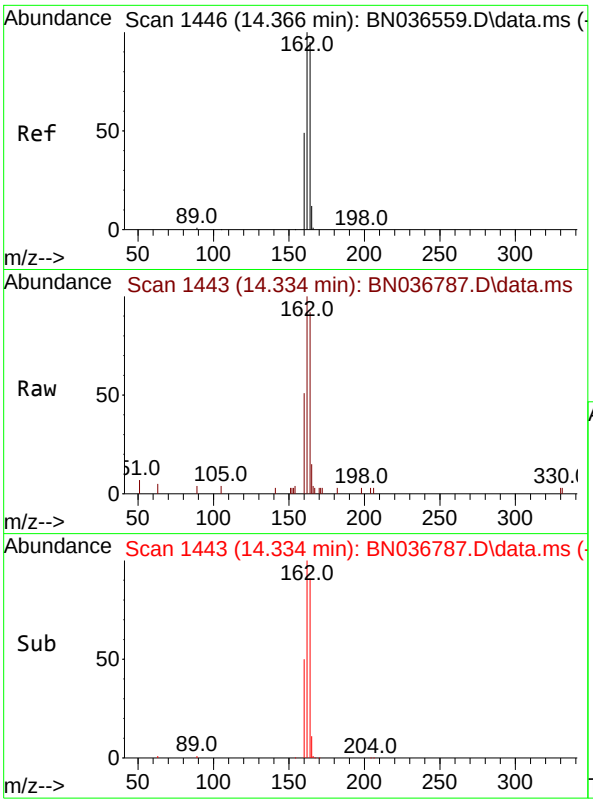


#12
2-Methylnaphthalene
Concen: 0.419 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:142 Resp: 2927

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.7	107.5
115	49.0	38.3	57.5



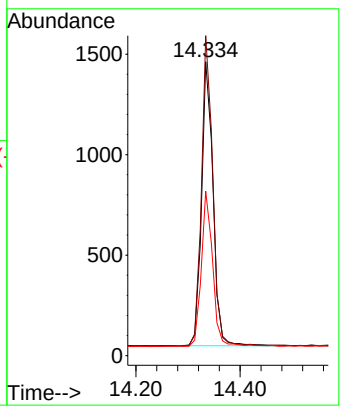


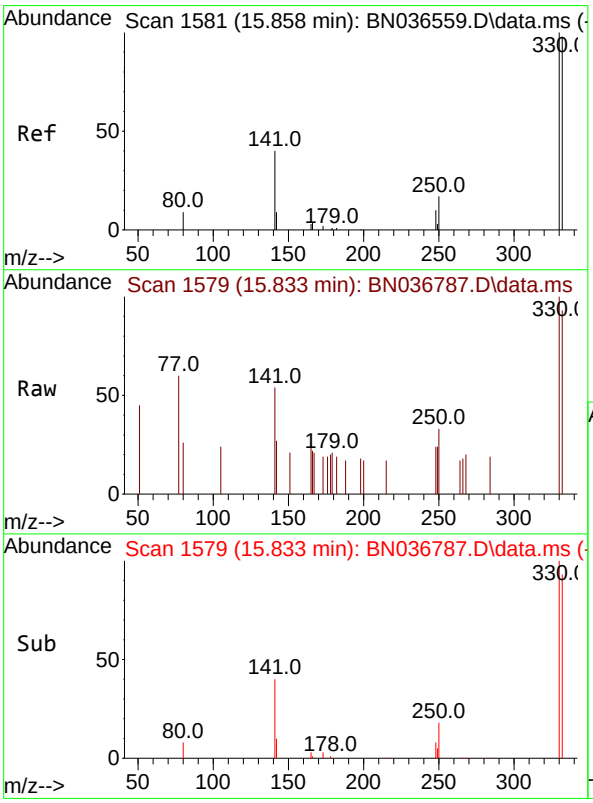
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:164 Resp: 2164

Ion	Ratio	Lower	Upper
164	100		
162	108.9	84.2	126.2
160	56.0	42.2	63.2

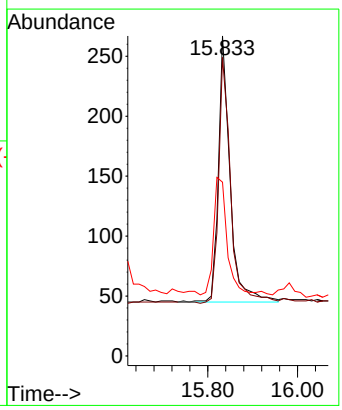


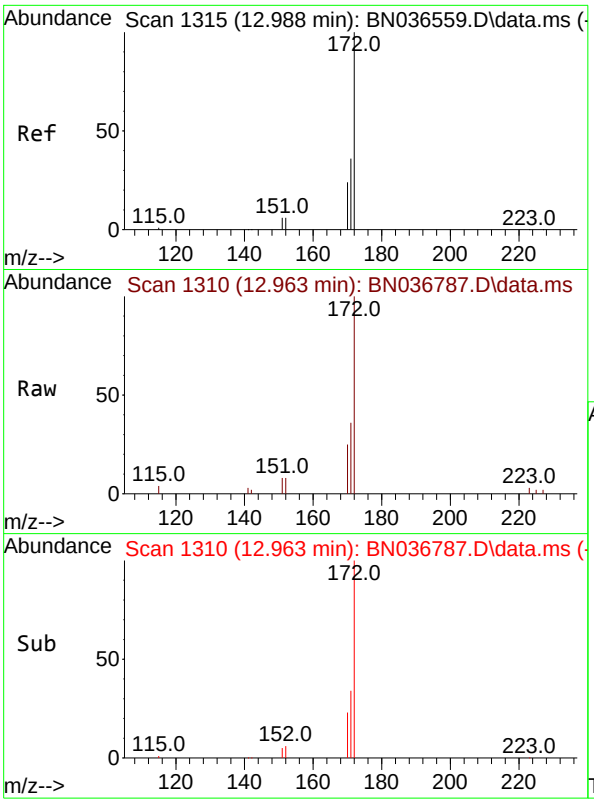


#14
2,4,6-Tribromophenol
Concen: 0.409 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:330 Resp: 402

Ion	Ratio	Lower	Upper
330	100		
332	95.5	75.2	112.8
141	51.2	43.4	65.2



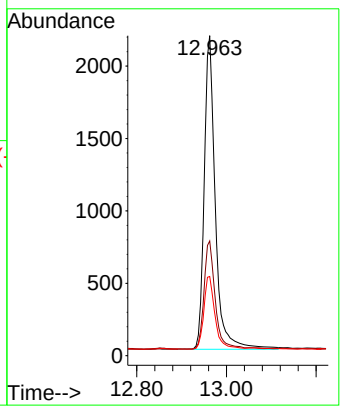


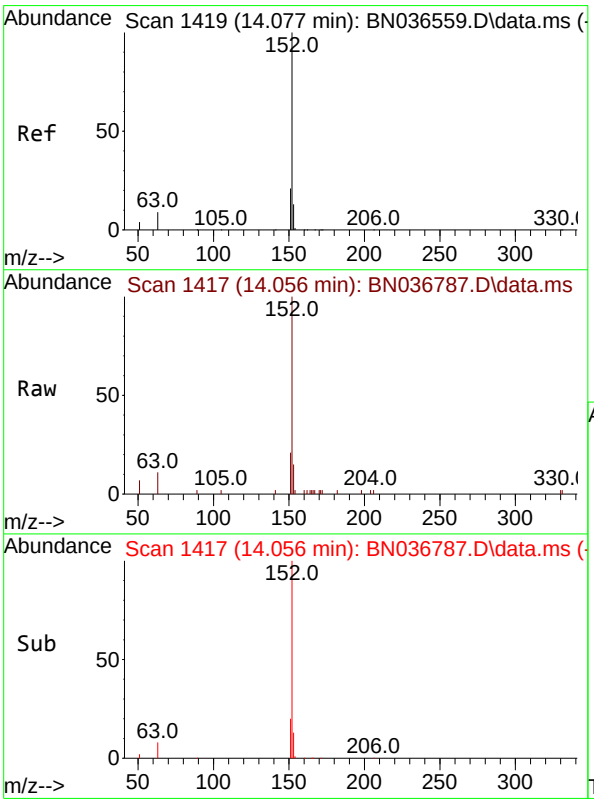
#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:172 Resp: 4848

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.5	44.3
170	24.8	20.2	30.4

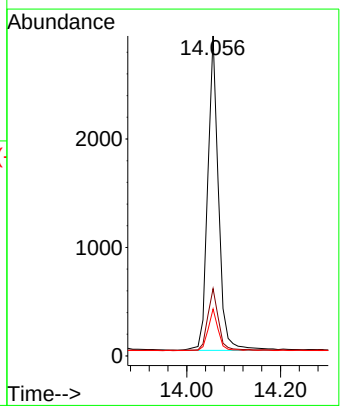


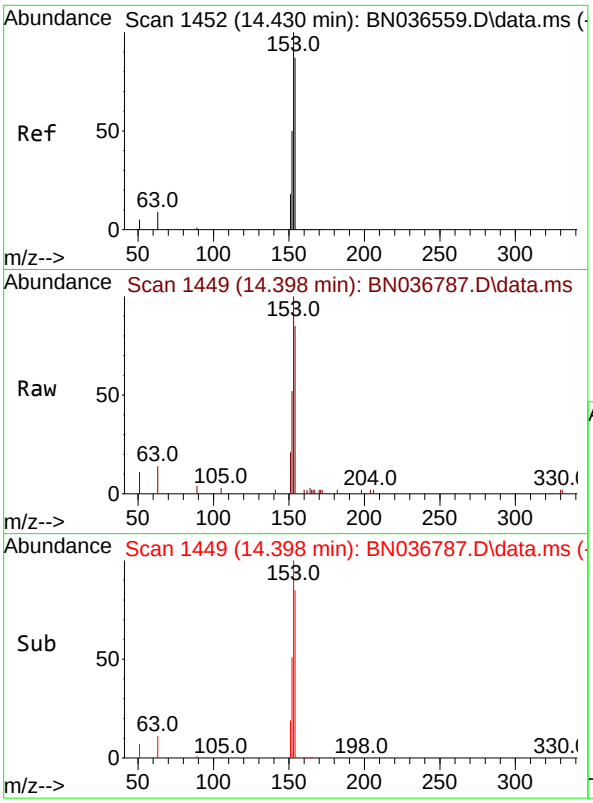


#16
Acenaphthylene
Concen: 0.452 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:152 Resp: 4615

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.2	24.4
153	12.6	10.6	15.8



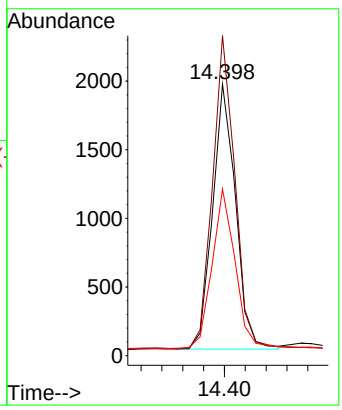


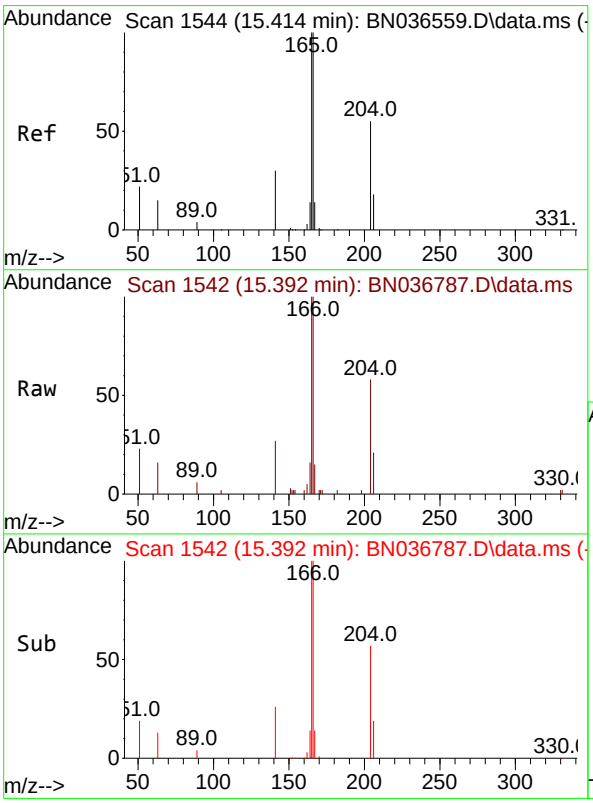
#17
Acenaphthene
Concen: 0.441 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:154 Resp: 2946

Ion	Ratio	Lower	Upper
154	100		
153	116.7	94.1	141.1
152	61.2	49.8	74.6

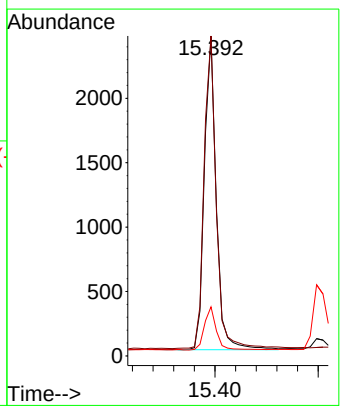


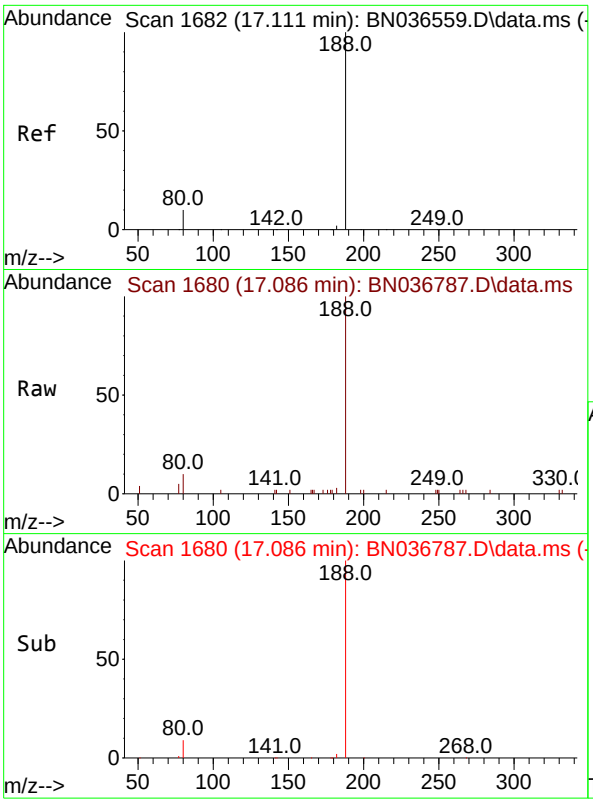


#18
Fluorene
Concen: 0.434 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:166 Resp: 3928

Ion	Ratio	Lower	Upper
166	100		
165	101.8	79.8	119.8
167	13.8	10.6	15.8



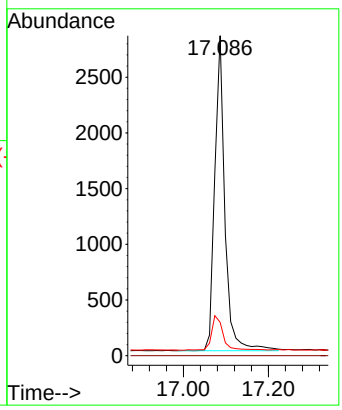


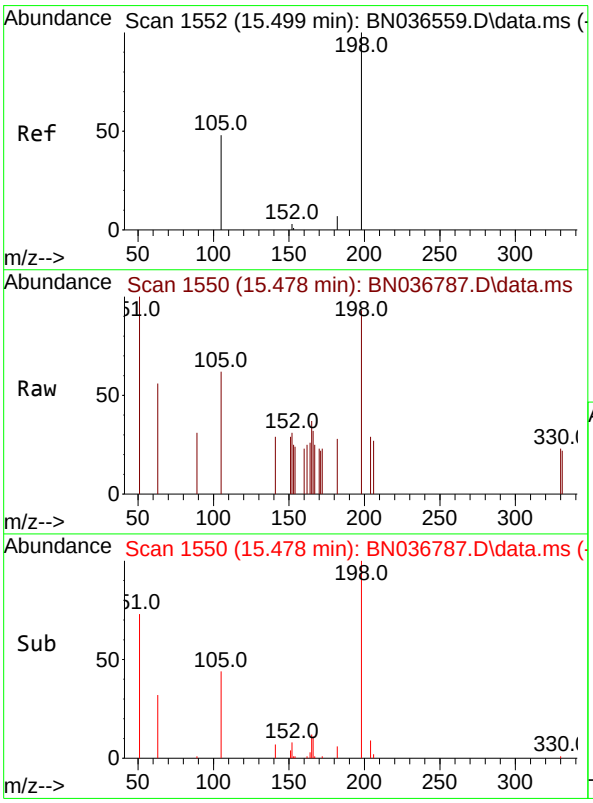
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:188 Resp: 4675

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	8.8	13.2

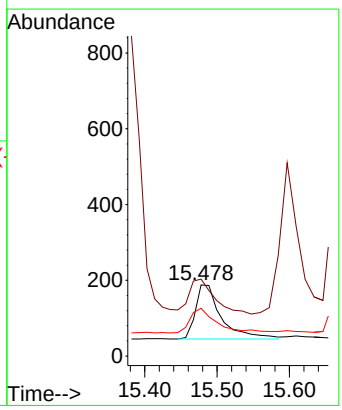


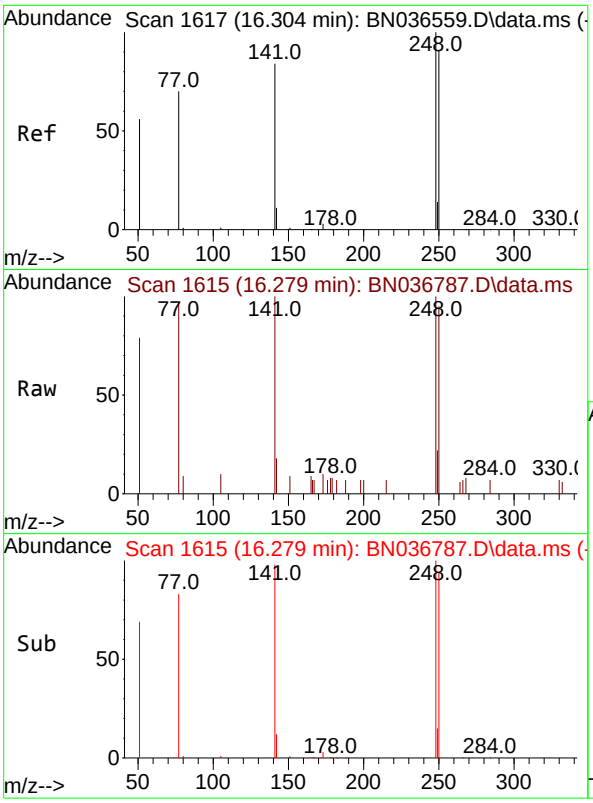


#20
4,6-Dinitro-2-methylphenol
Concen: 0.459 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:198 Resp: 374

Ion	Ratio	Lower	Upper
198	100		
51	108.0	107.9	161.9
105	67.0	56.2	84.2



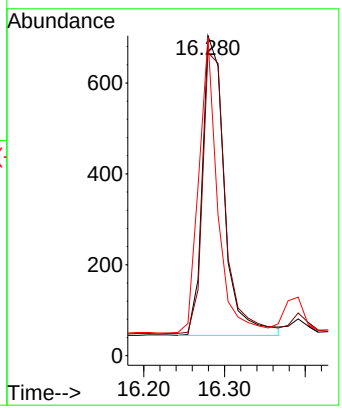


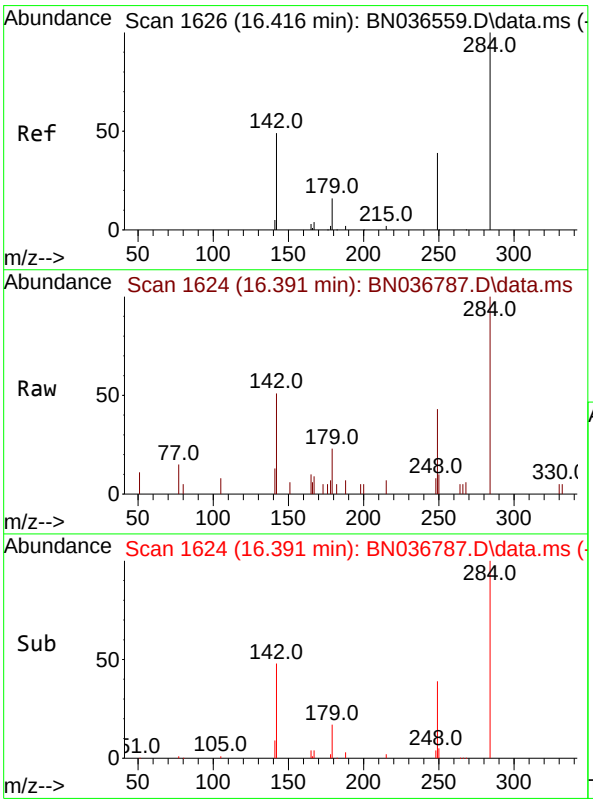
#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.279 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:248 Resp: 1254

Ion	Ratio	Lower	Upper
248	100		
250	94.7	73.0	109.6
141	99.6	68.6	103.0

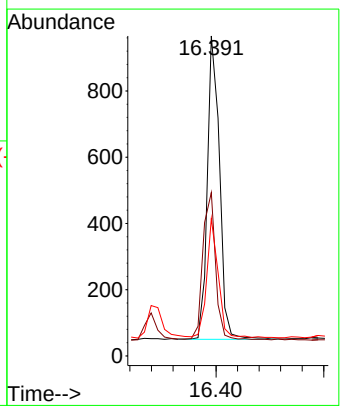


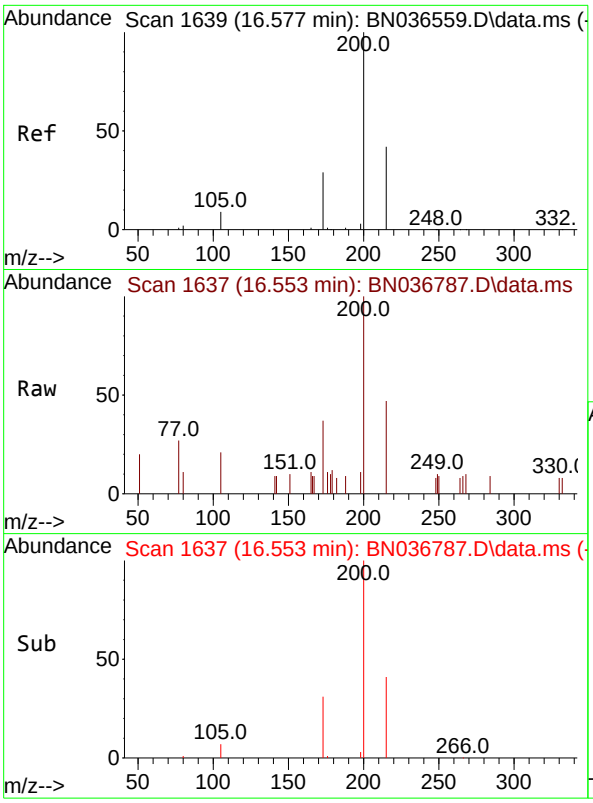


#22
Hexachlorobenzene
Concen: 0.405 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:284 Resp: 1431

Ion	Ratio	Lower	Upper
284	100		
142	51.2	37.0	55.4
249	37.4	28.1	42.1



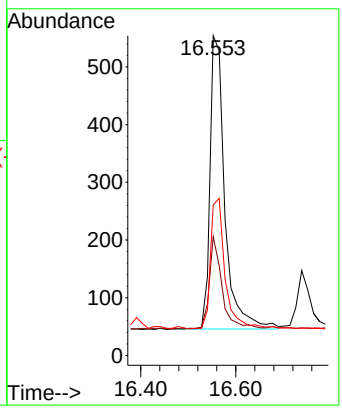


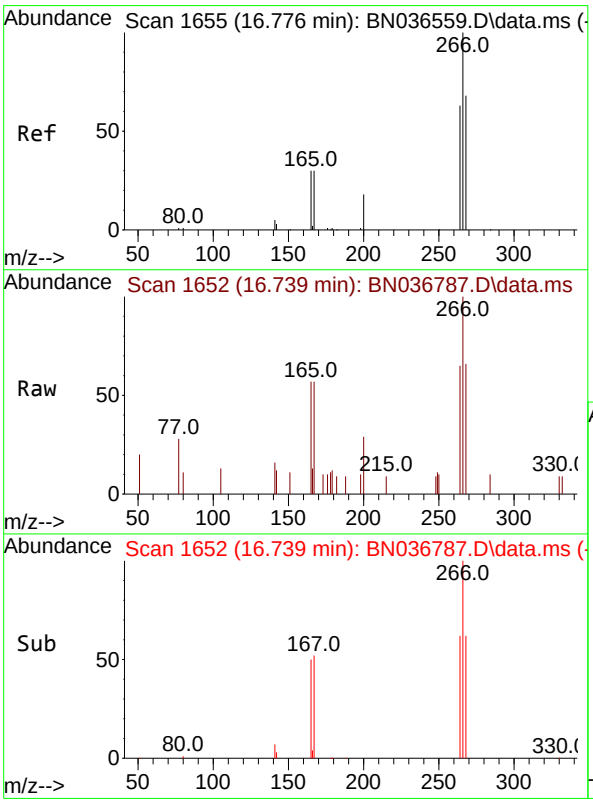
#23
Atrazine
Concen: 0.469 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:200 Resp: 1102

Ion	Ratio	Lower	Upper
200	100		
173	37.2	27.3	40.9
215	47.1	36.8	55.2

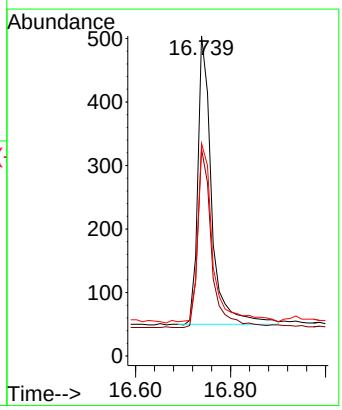


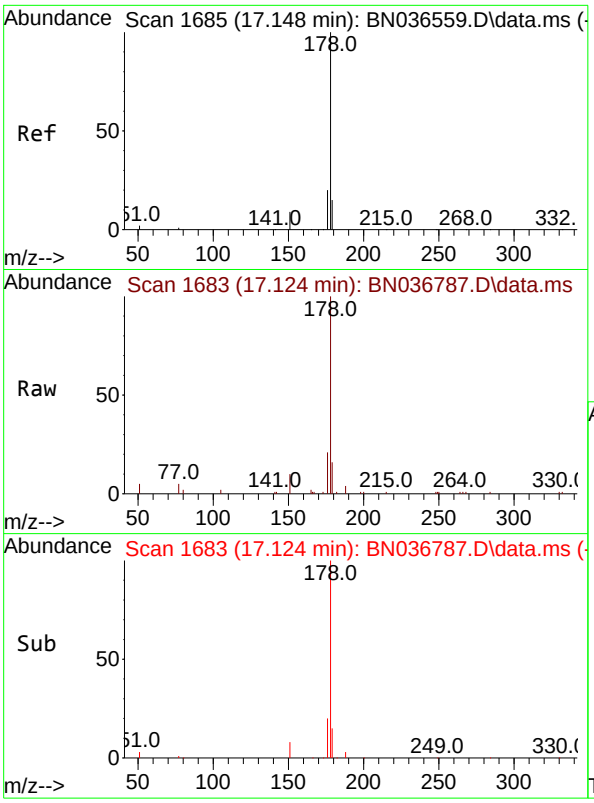


#24
Pentachlorophenol
Concen: 0.569 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:266 Resp: 918

Ion	Ratio	Lower	Upper
266	100		
264	62.1	49.6	74.4
268	69.1	50.9	76.3



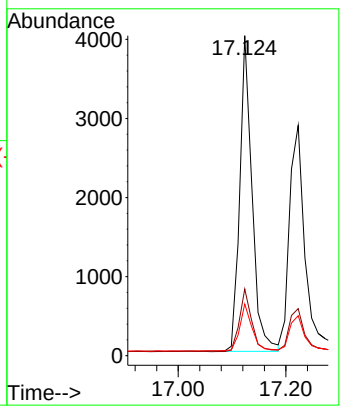


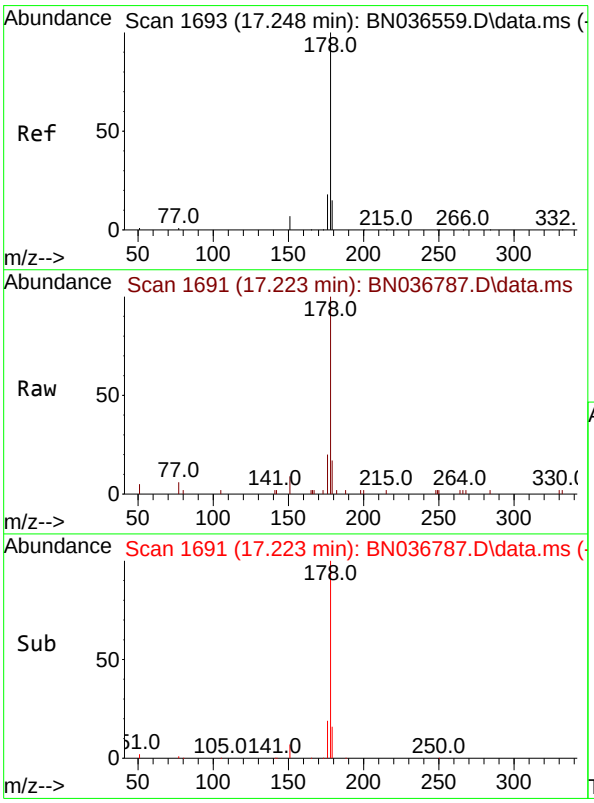
#25
Phenanthrene
Concen: 0.451 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:178 Resp: 6323

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.0	12.2	18.4

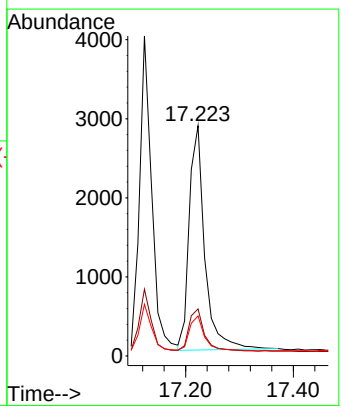


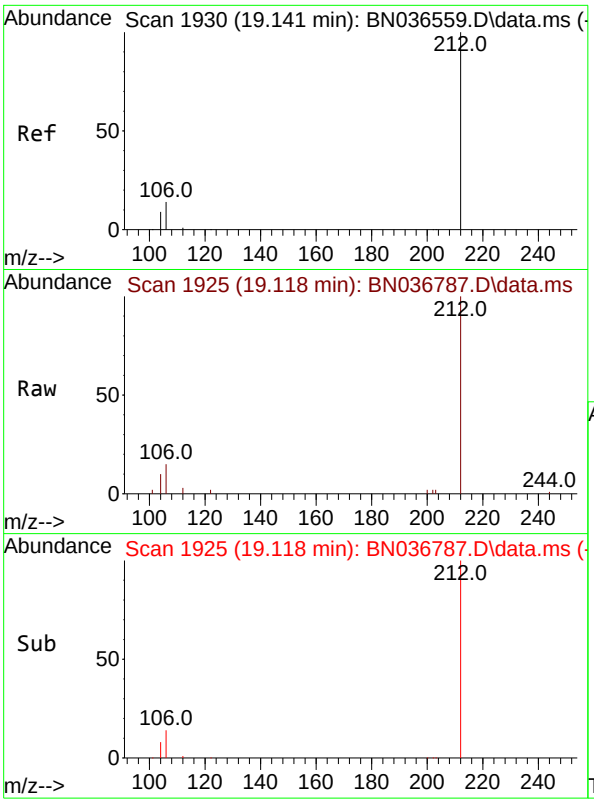


#26
Anthracene
Concen: 0.450 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:178 Resp: 5693

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



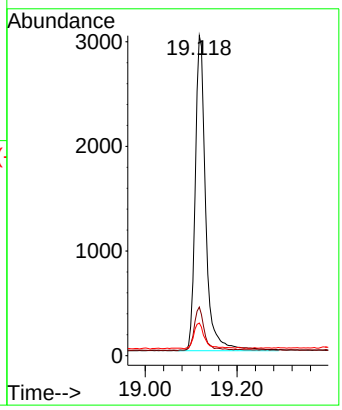


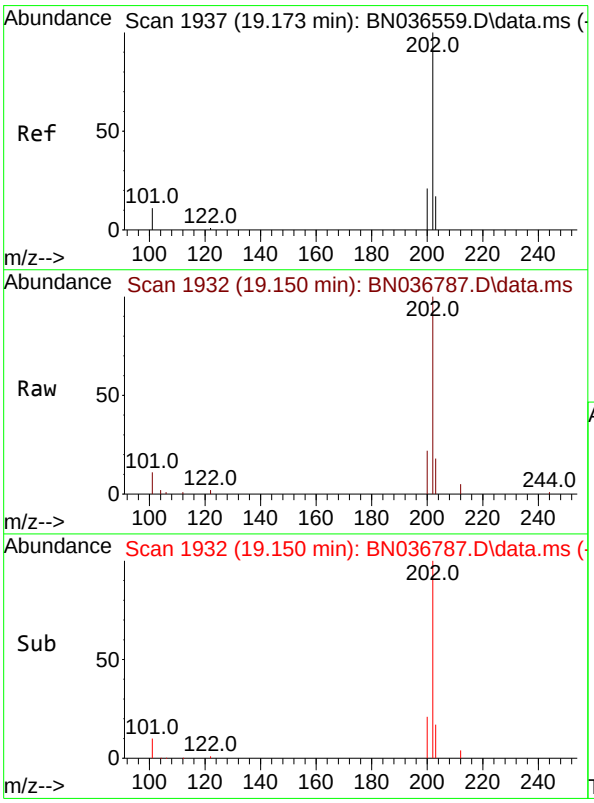
#27
Fluoranthene-d10
Concen: 0.398 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:212 Resp: 4771

Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.8	17.6
104	8.7	7.3	10.9

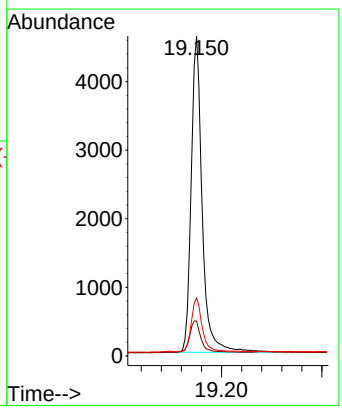


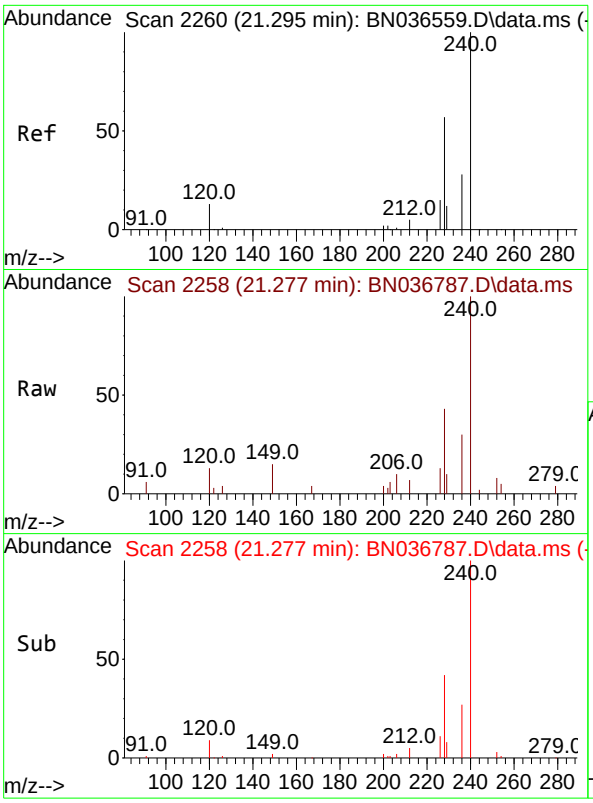


#28
Fluoranthene
Concen: 0.445 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:202 Resp: 7014

Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.4	14.0
203	17.2	13.5	20.3



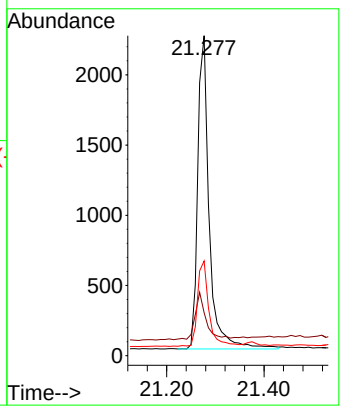


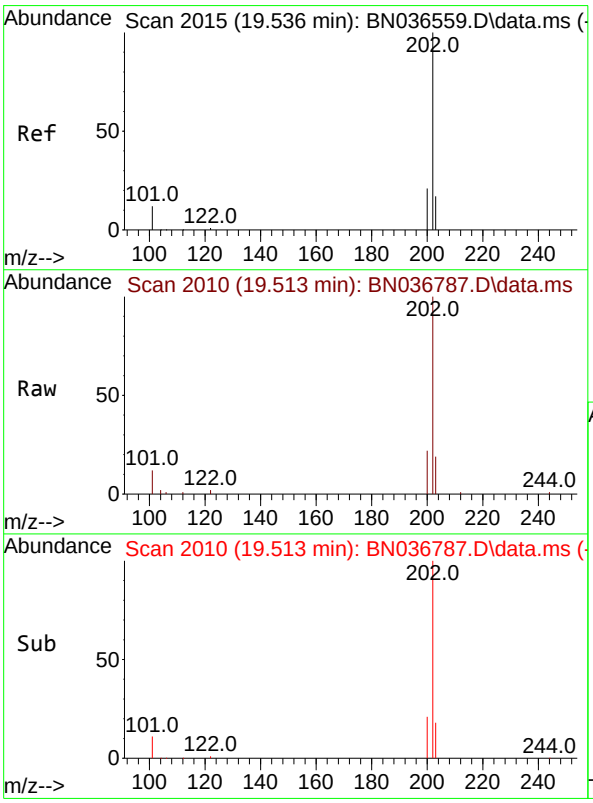
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:240 Resp: 3635

Ion	Ratio	Lower	Upper
240	100		
120	13.5	14.6	22.0#
236	29.6	24.1	36.1

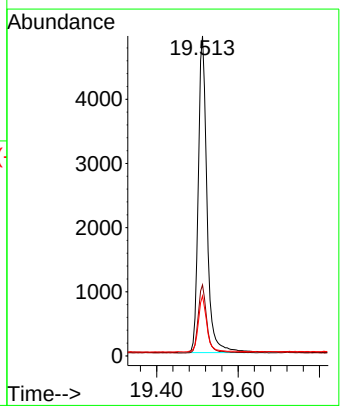


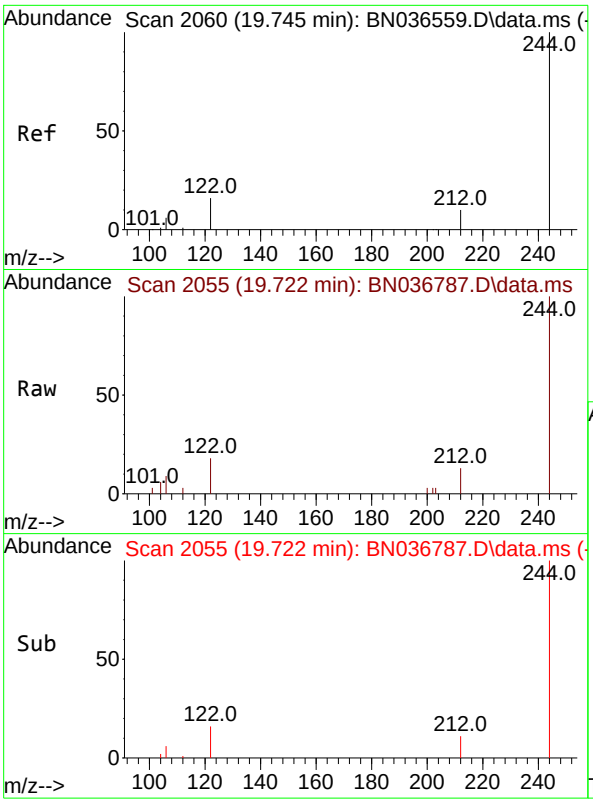


#30
Pyrene
Concen: 0.412 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:202 Resp: 7319

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



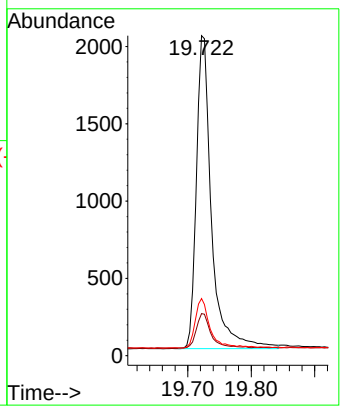


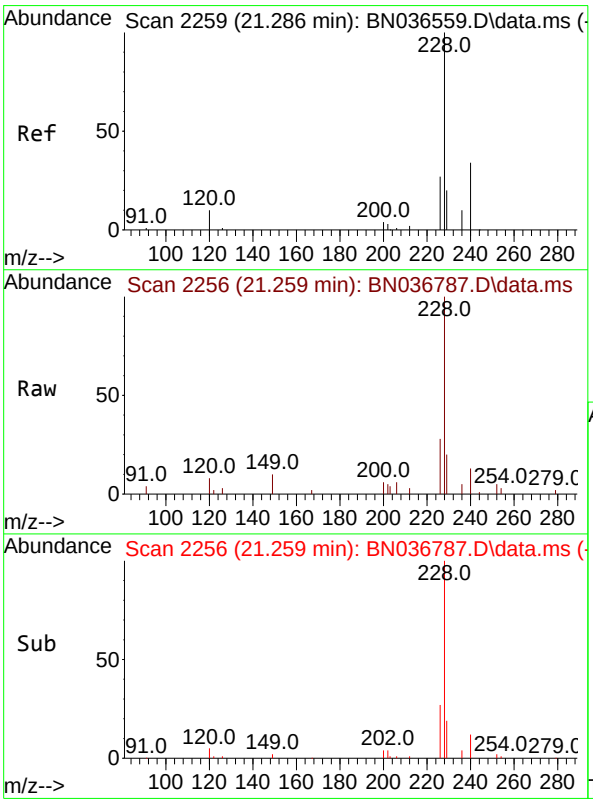
#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:244 Resp: 3358

Ion	Ratio	Lower	Upper
244	100		
212	13.1	9.6	14.4
122	17.9	13.9	20.9

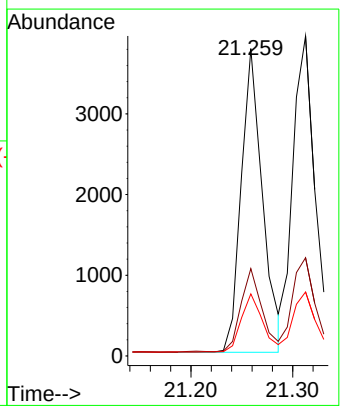


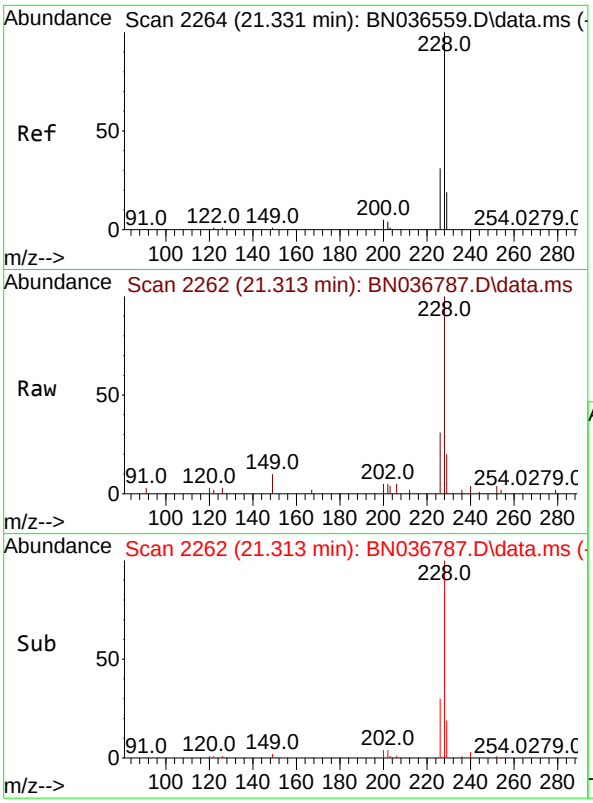


#32
Benzo(a)anthracene
Concen: 0.433 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:228 Resp: 5474

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.2	16.6	25.0



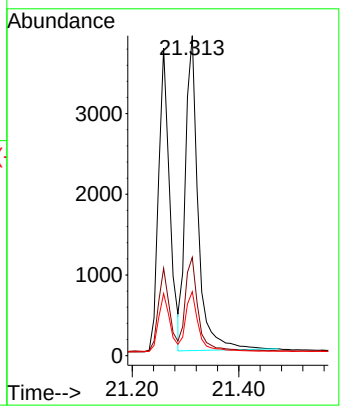


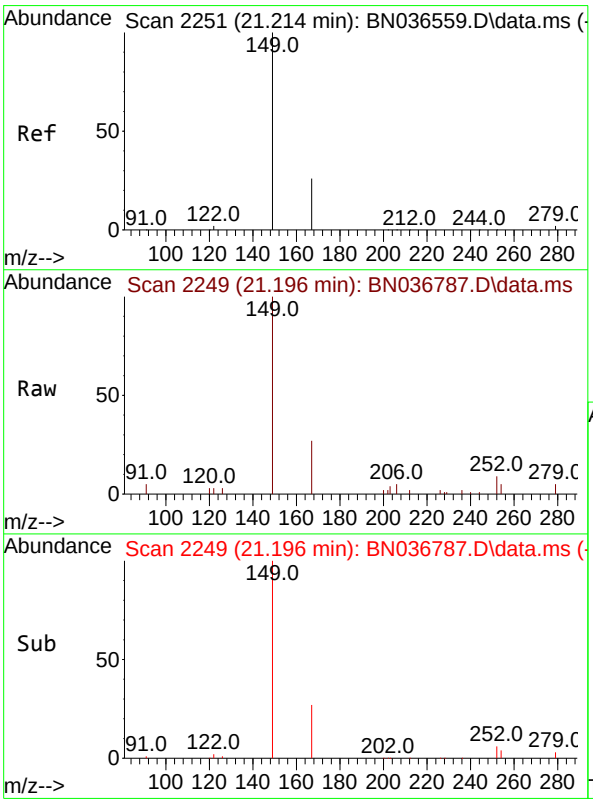
#33
Chrysene
Concen: 0.467 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:228 Resp: 6453

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	20.0	15.8	23.8

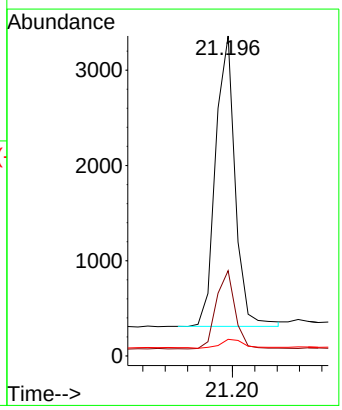


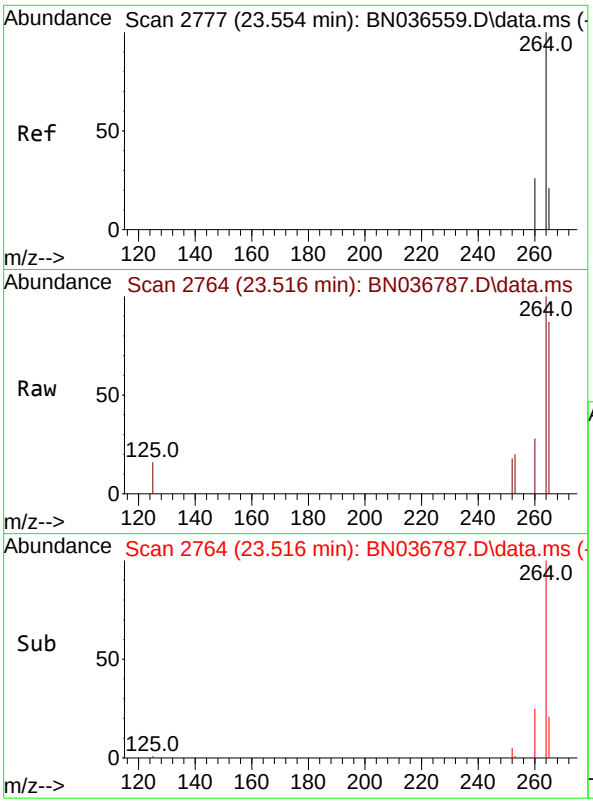


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.411 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:149 Resp: 3700

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.7	31.1
279	3.6	3.6	5.4



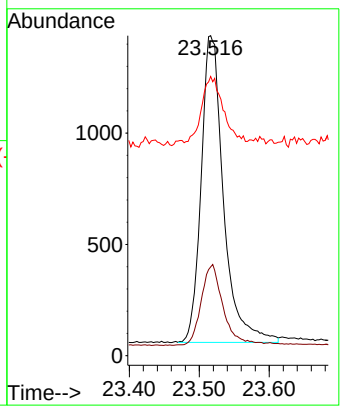


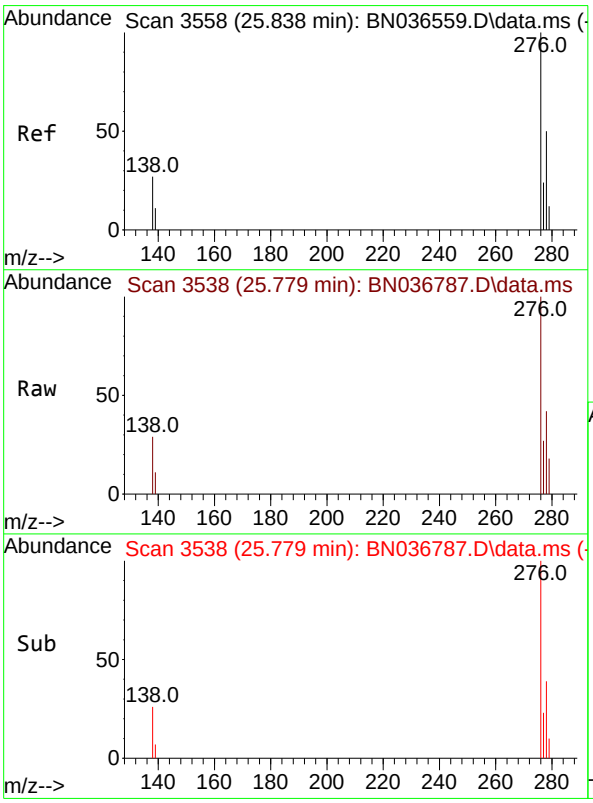
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:264 Resp: 3061

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	87.3	88.1	132.1#

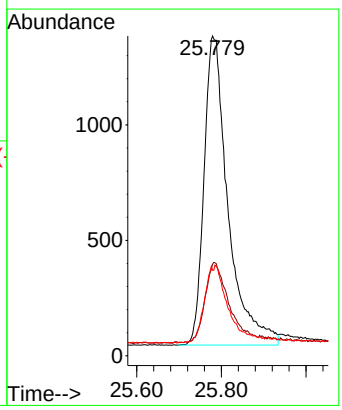


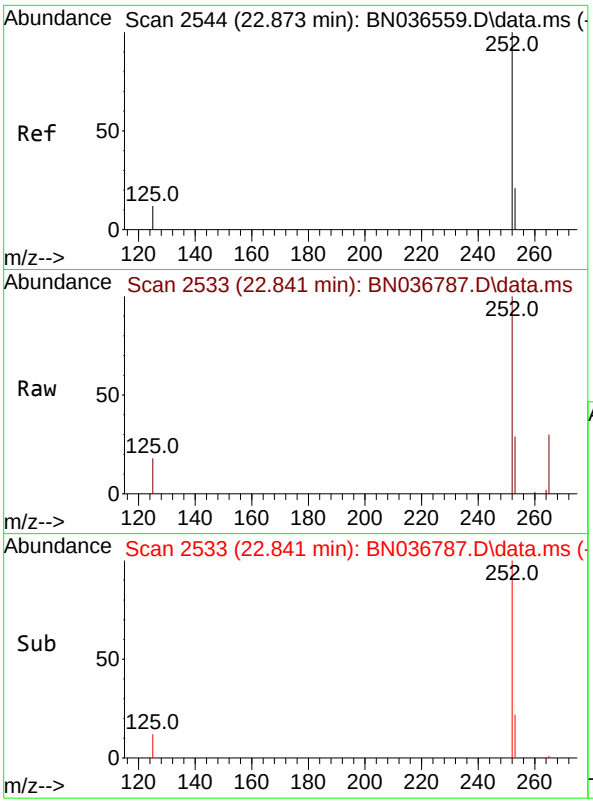


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.477 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.059 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:276 Resp: 5268

Ion	Ratio	Lower	Upper
276	100		
138	25.6	23.4	35.2
277	9.0	20.0	30.0#



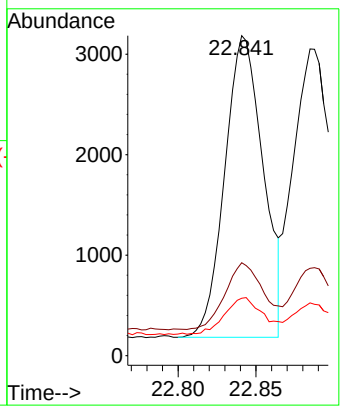


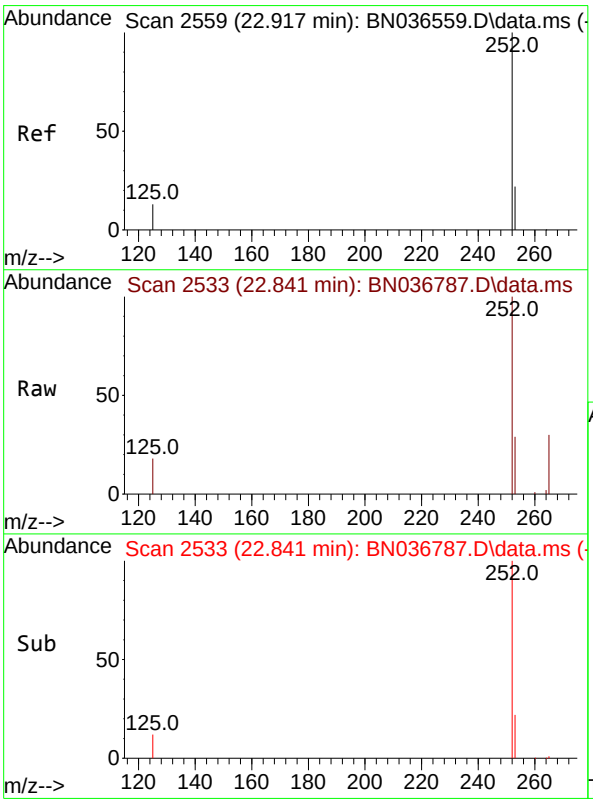
#37
Benzo(b)fluoranthene
Concen: 0.462 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:252 Resp: 5149

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	17.9	17.4	26.2

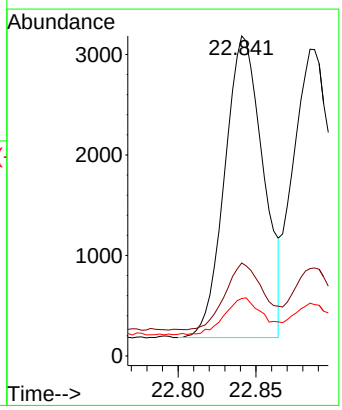


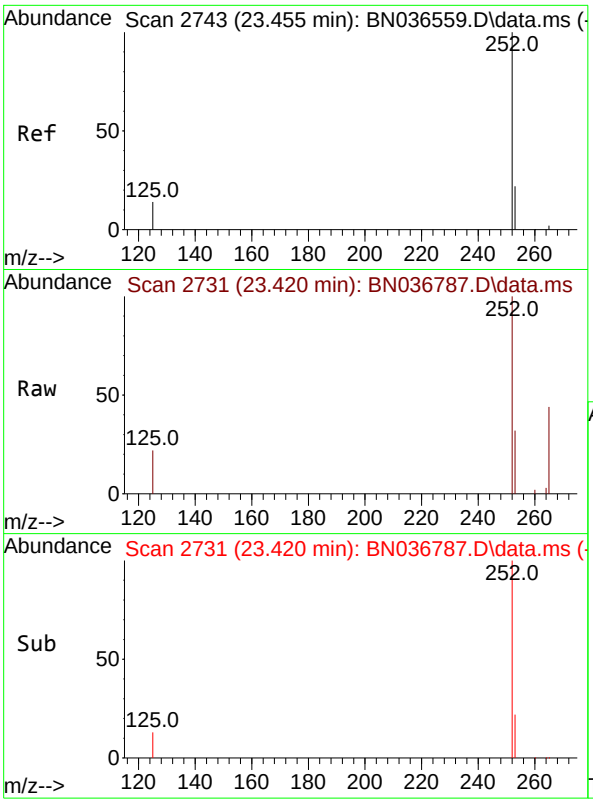


#38
Benzo(k)fluoranthene
Concen: 0.441 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:252 Resp: 5149

Ion	Ratio	Lower	Upper
252	100		
253	29.0	24.6	36.8
125	17.9	17.8	26.8



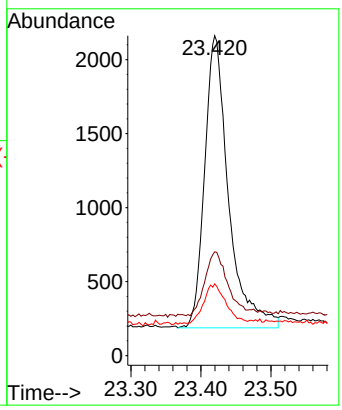


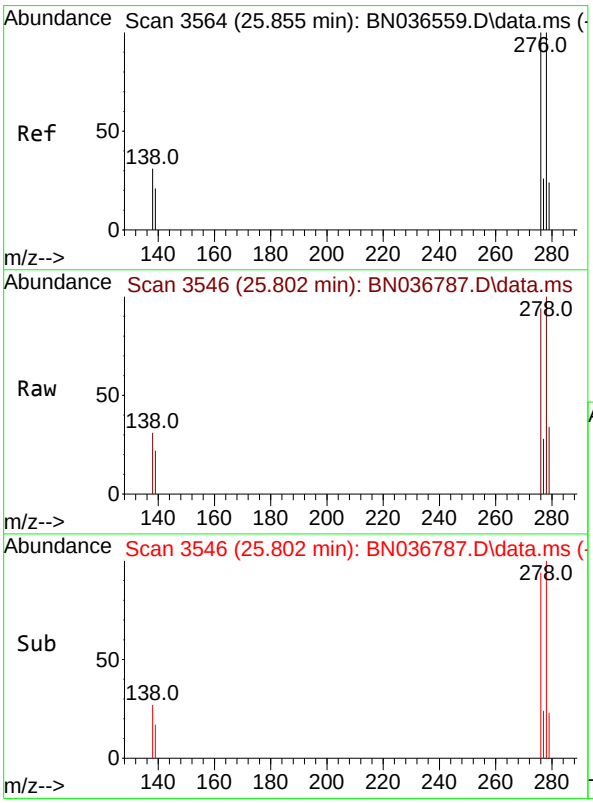
#39
Benzo(a)pyrene
Concen: 0.499 ng
RT: 23.420 min Scan# 2
Delta R.T. -0.035 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:252 Resp: 4679

Ion	Ratio	Lower	Upper
252	100		
253	32.4	27.8	41.8
125	22.4	22.7	34.1#

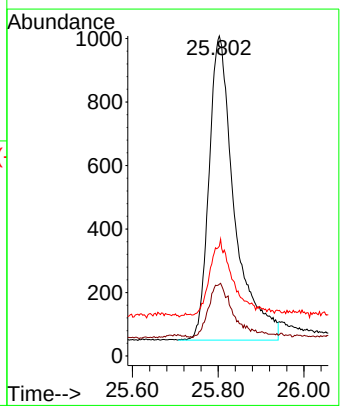


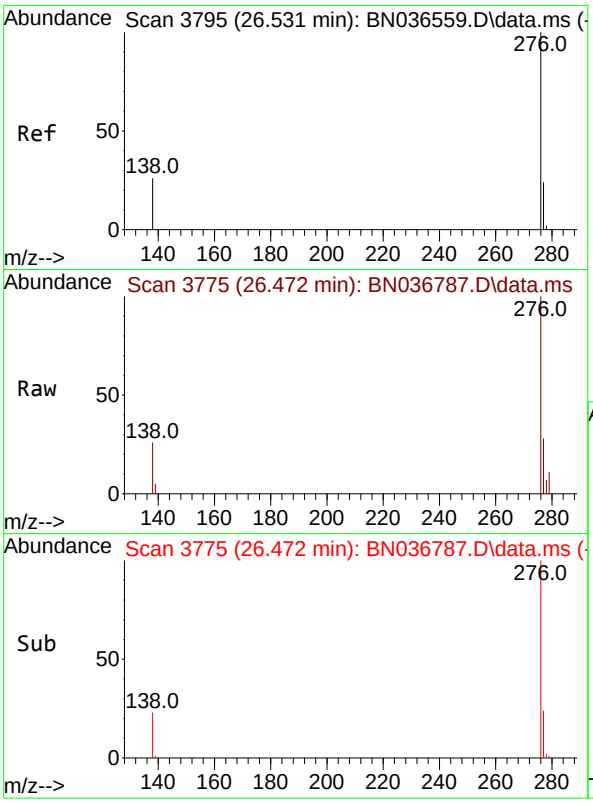


#40
Dibenzo(a,h)anthracene
Concen: 0.459 ng
RT: 25.802 min Scan# 3546
Delta R.T. -0.053 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Tgt Ion:278 Resp: 3944

Ion	Ratio	Lower	Upper
278	100		
139	22.4	20.8	31.2
279	34.3	28.8	43.2



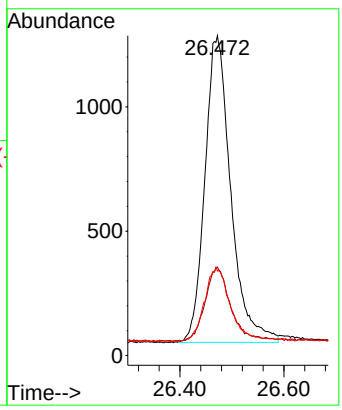


#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 26.472 min Scan# 3
Delta R.T. -0.059 min
Lab File: BN036787.D
Acq: 28 Mar 2025 23:38

Instrument :
BNA_N
ClientSampleId :
PB167251BS

Tgt Ion:276 Resp: 4262

Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.2	33.4
138	26.4	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036788.D
Acq On : 29 Mar 2025 00:14
Operator : RC/JU
Sample : PB167251BSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Quant Time: Mar 31 10:42:26 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 16:06:28 2025
Response via : Initial Calibration

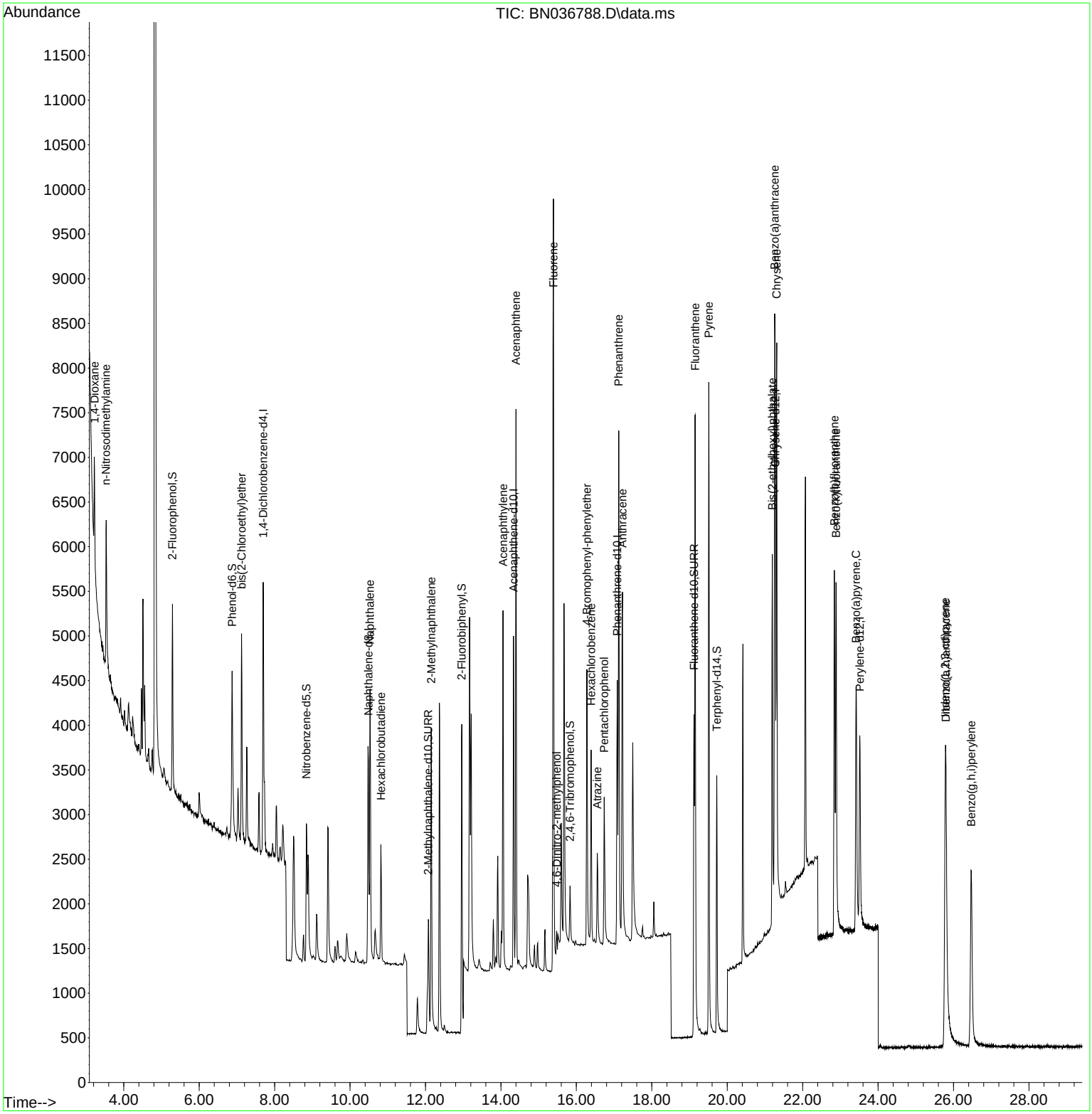
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1495	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3562	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2075	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4531	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3571	0.400	ng	#-0.02
35) Perylene-d12	23.513	264	3214	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1520	0.436	ng	-0.02
5) Phenol-d6	6.872	99	1696	0.394	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1467	0.379	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2935	0.554	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	384	0.408	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4747	0.393	ng	-0.03
27) Fluoranthene-d10	19.118	212	4737	0.408	ng	-0.02
31) Terphenyl-d14	19.722	244	3374	0.394	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	559	0.337	ng	# 27
3) n-Nitrosodimethylamine	3.528	42	1482	0.442	ng	# 94
6) bis(2-Chloroethyl)ether	7.125	93	1720	0.387	ng	97
9) Naphthalene	10.530	128	4258	0.406	ng	99
10) Hexachlorobutadiene	10.818	225	1013	0.411	ng	# 99
12) 2-Methylnaphthalene	12.151	142	2756	0.413	ng	98
16) Acenaphthylene	14.056	152	4353	0.445	ng	99
17) Acenaphthene	14.398	154	2772	0.432	ng	99
18) Fluorene	15.393	166	3813	0.440	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	384	0.477	ng	# 83
21) 4-Bromophenyl-phenylether	16.280	248	1199	0.422	ng	96
22) Hexachlorobenzene	16.391	284	1423	0.415	ng	95
23) Atrazine	16.553	200	1058	0.465	ng	96
24) Pentachlorophenol	16.739	266	908	0.581	ng	96
25) Phenanthrene	17.124	178	6081	0.447	ng	100
26) Anthracene	17.223	178	5621	0.458	ng	99
28) Fluoranthene	19.150	202	7104	0.465	ng	98
30) Pyrene	19.513	202	7362	0.422	ng	100
32) Benzo(a)anthracene	21.259	228	5399	0.435	ng	99
33) Chrysene	21.313	228	6396	0.471	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3569	0.404	ng	99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5542	0.478	ng	96
37) Benzo(b)fluoranthene	22.841	252	5372	0.459	ng	94
38) Benzo(k)fluoranthene	22.885	252	5891	0.480	ng	# 92
39) Benzo(a)pyrene	23.417	252	4725	0.480	ng	# 91
40) Dibenzo(a,h)anthracene	25.800	278	4192	0.464	ng	93
41) Benzo(g,h,i)perylene	26.469	276	4510	0.437	ng	95

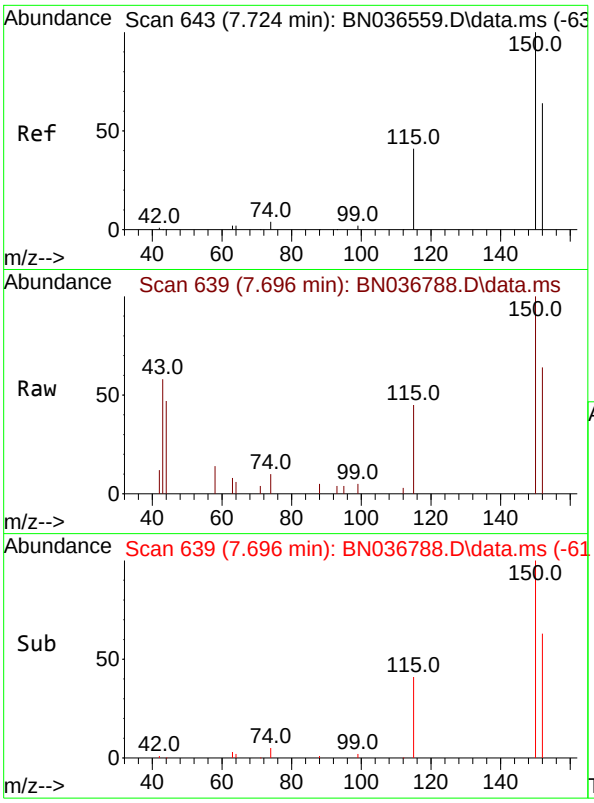
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036788.D
Acq On : 29 Mar 2025 00:14
Operator : RC/JU
Sample : PB167251BSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Quant Time: Mar 31 10:42:26 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 16:06:28 2025
Response via : Initial Calibration



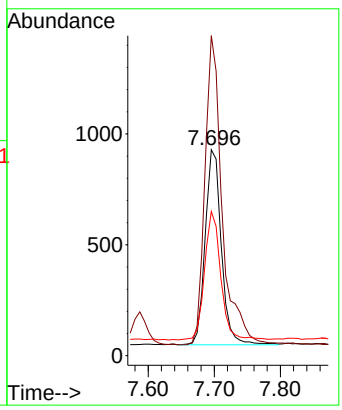


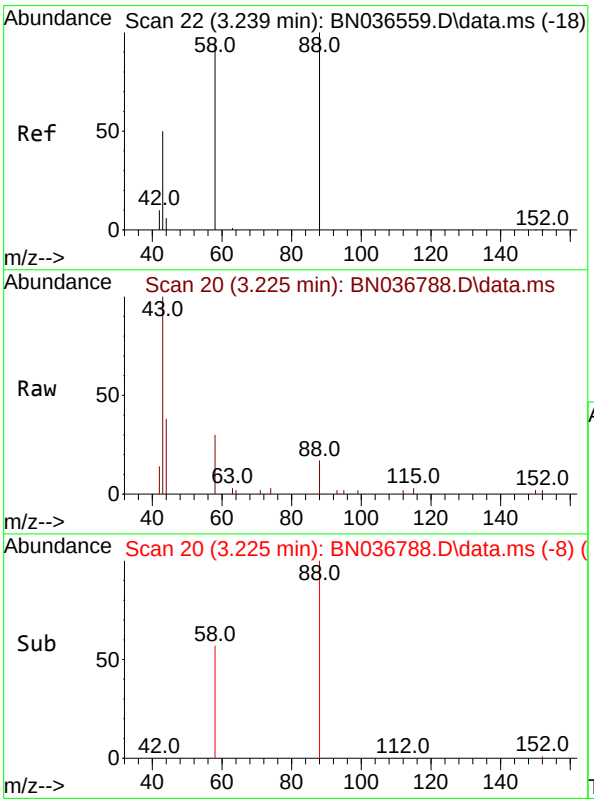
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:152 Resp: 1495

Ion	Ratio	Lower	Upper
152	100		
150	155.3	123.7	185.5
115	70.0	54.3	81.5

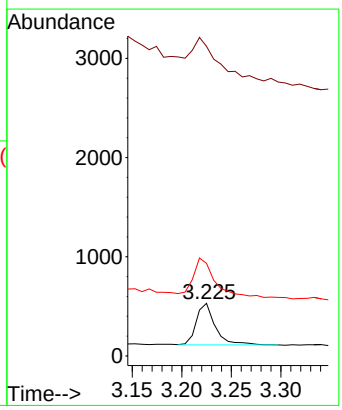


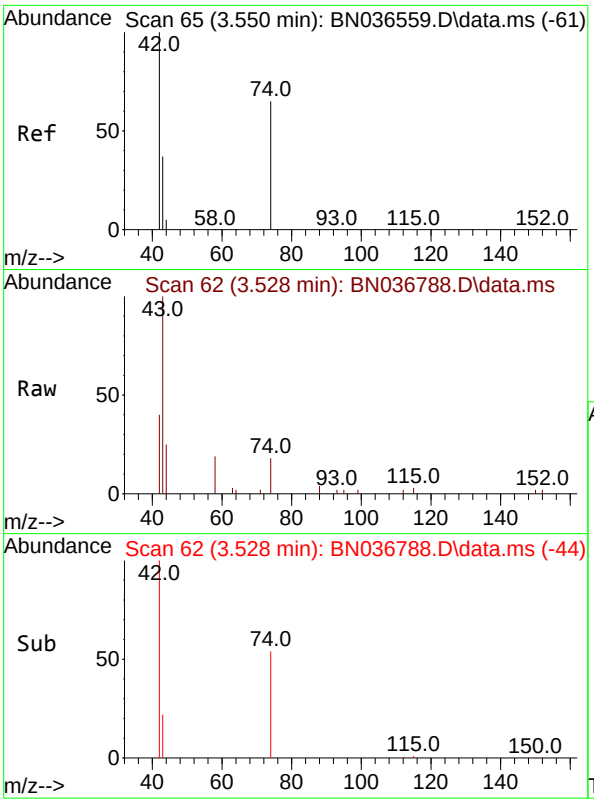


#2
1,4-Dioxane
Concen: 0.337 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion: 88 Resp: 559

Ion	Ratio	Lower	Upper
88	100		
43	151.0	37.8	56.8#
58	108.4	67.4	101.2#



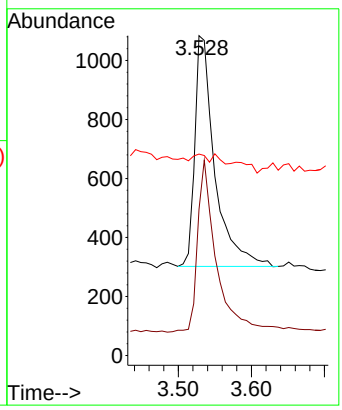


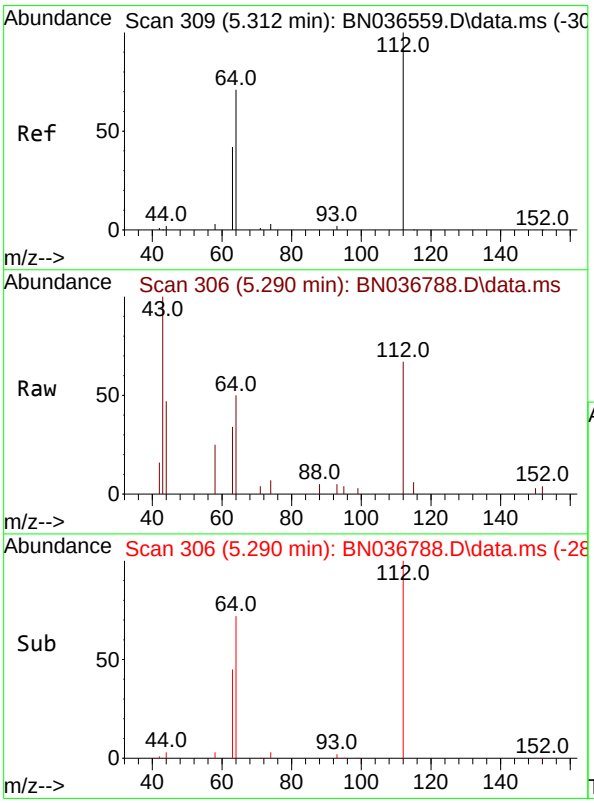
#3
n-Nitrosodimethylamine
Concen: 0.442 ng
RT: 3.528 min Scan# 6
Delta R.T. -0.022 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion: 42 Resp: 1482

Ion	Ratio	Lower	Upper
42	100		
74	71.7	60.6	90.8
44	2.1	6.3	9.5#

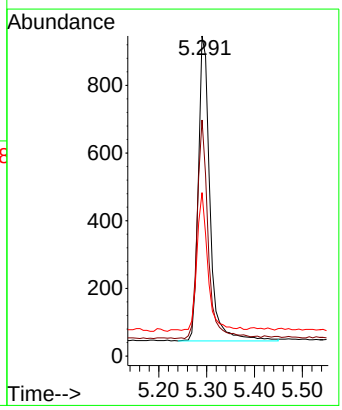


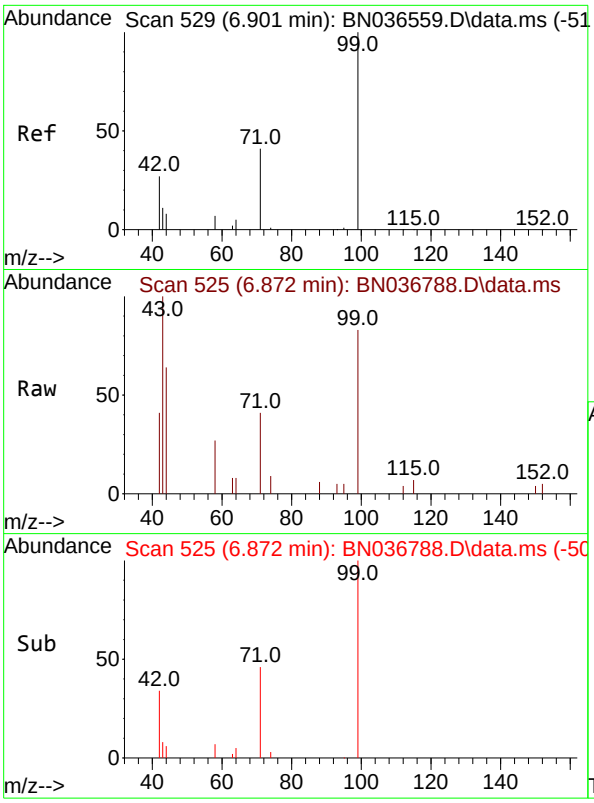


#4
2-Fluorophenol
Concen: 0.436 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:112 Resp: 1520

Ion	Ratio	Lower	Upper
112	100		
64	67.5	53.1	79.7
63	42.1	31.8	47.8



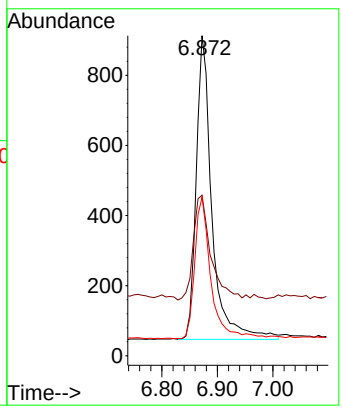


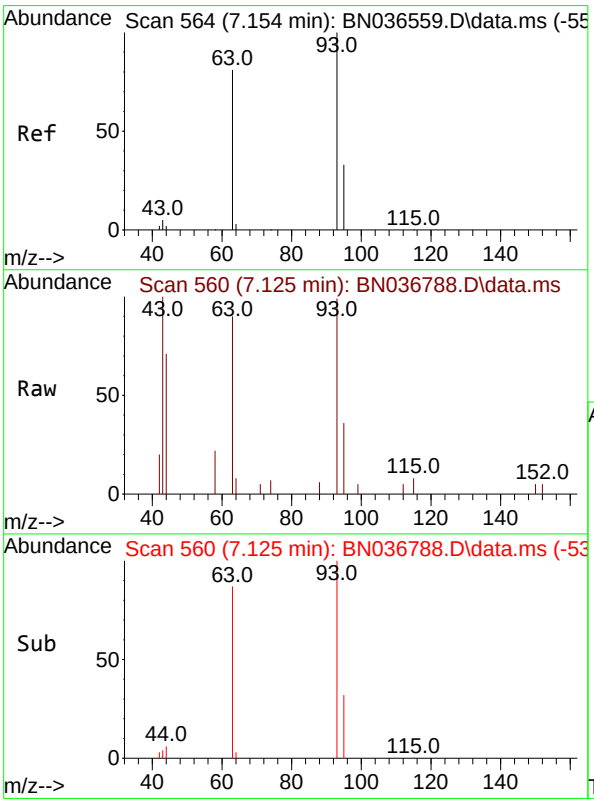
#5
Phenol-d6
Concen: 0.394 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion: 99 Resp: 1696

Ion	Ratio	Lower	Upper
99	100		
42	38.4	26.5	39.7
71	47.6	34.1	51.1

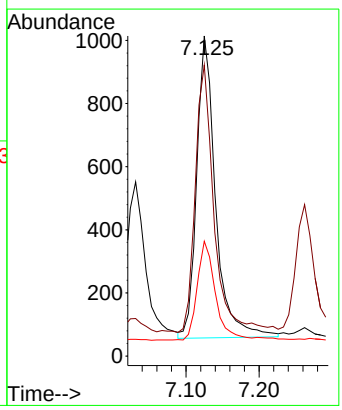


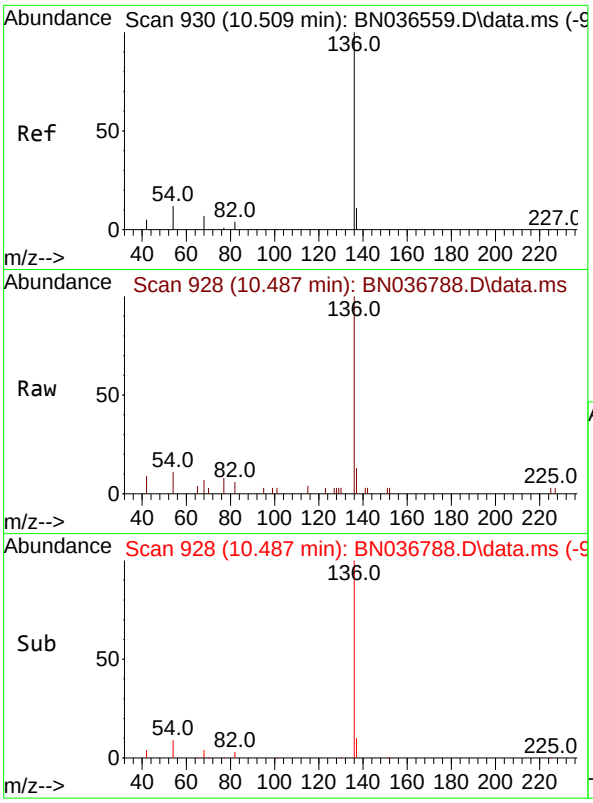


#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion: 93 Resp: 1720

Ion	Ratio	Lower	Upper
93	100		
63	88.1	67.7	101.5
95	31.0	25.6	38.4



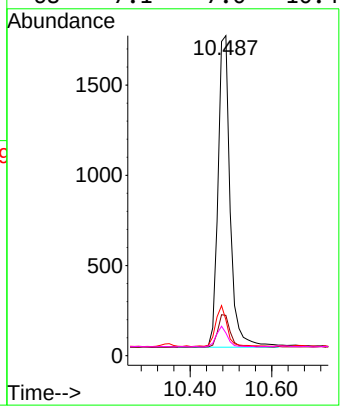


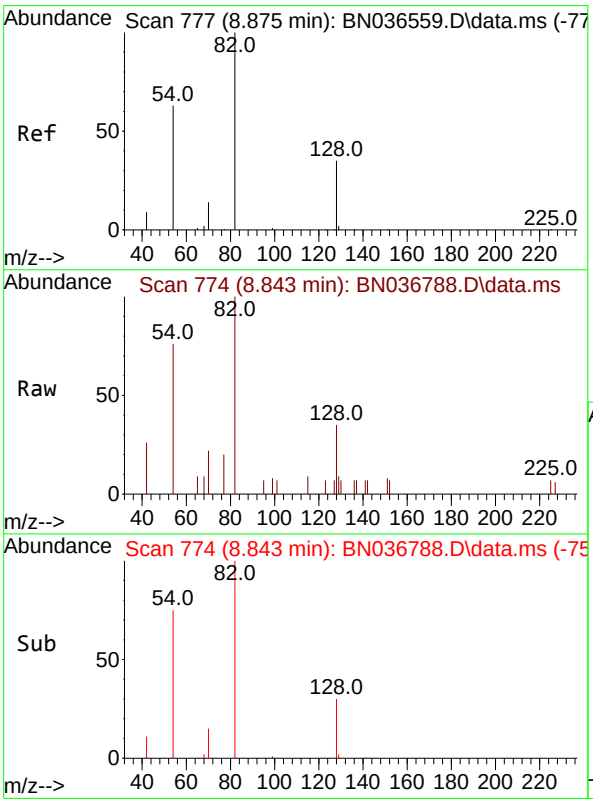
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:136 Resp: 3562

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	11.2	11.5	17.3#
68	7.1	7.0	10.4

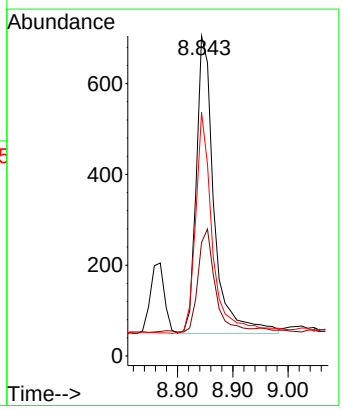


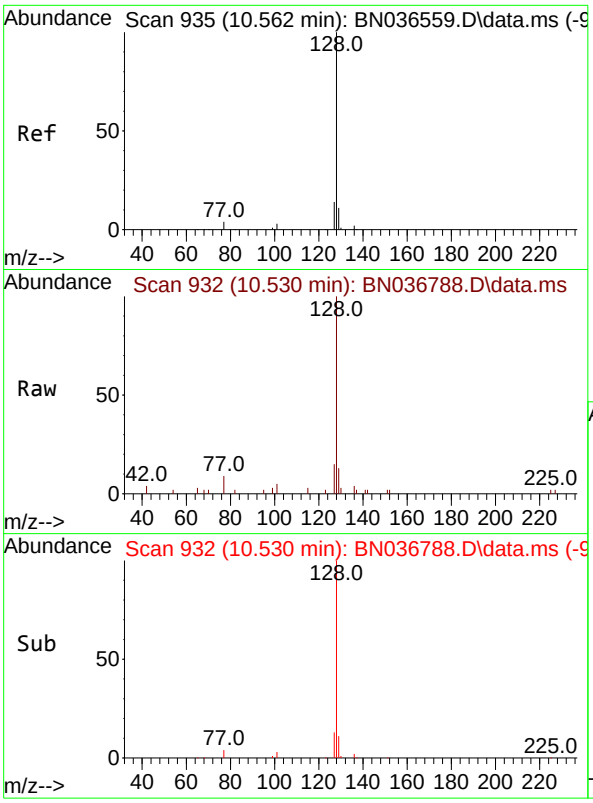


#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion: 82 Resp: 1467

Ion	Ratio	Lower	Upper
82	100		
128	35.5	30.6	45.8
54	76.2	52.2	78.4



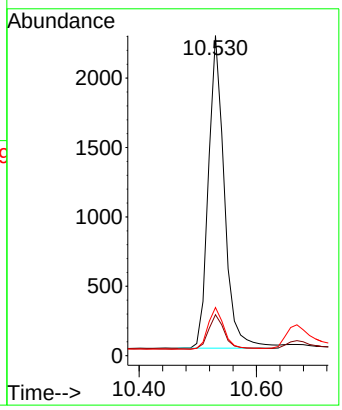


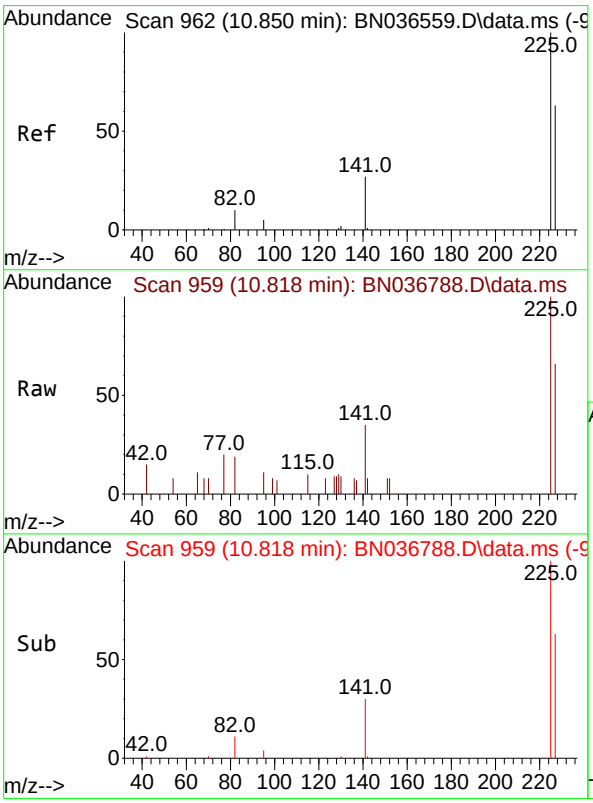
#9
Naphthalene
Concen: 0.406 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:128 Resp: 4258

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.0	11.8	17.8

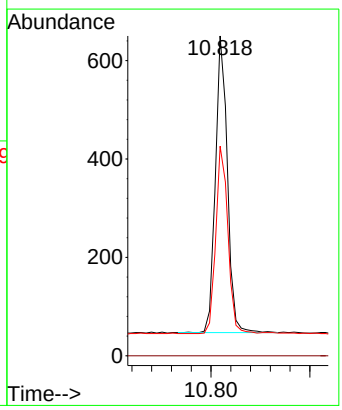


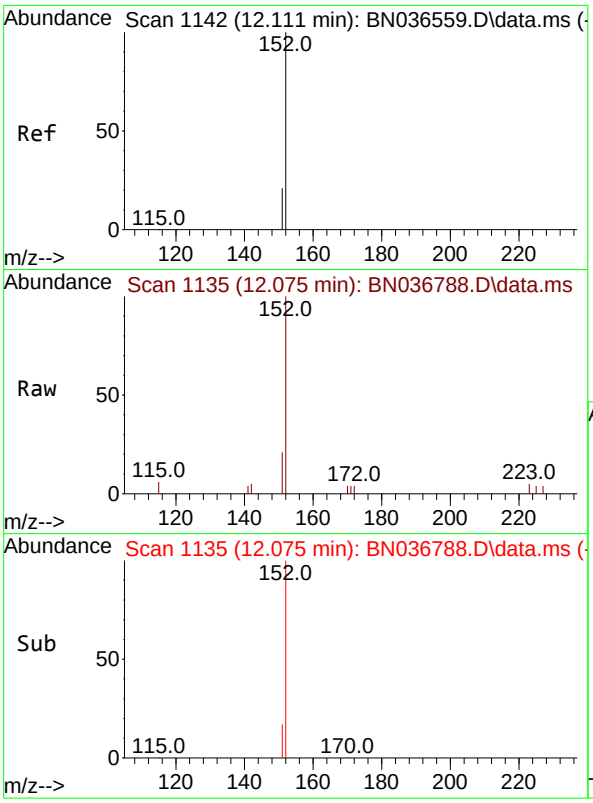


#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:225 Resp: 1013

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.8	77.8



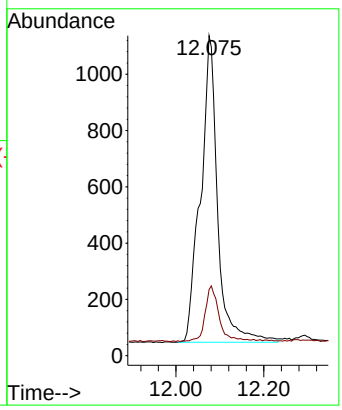


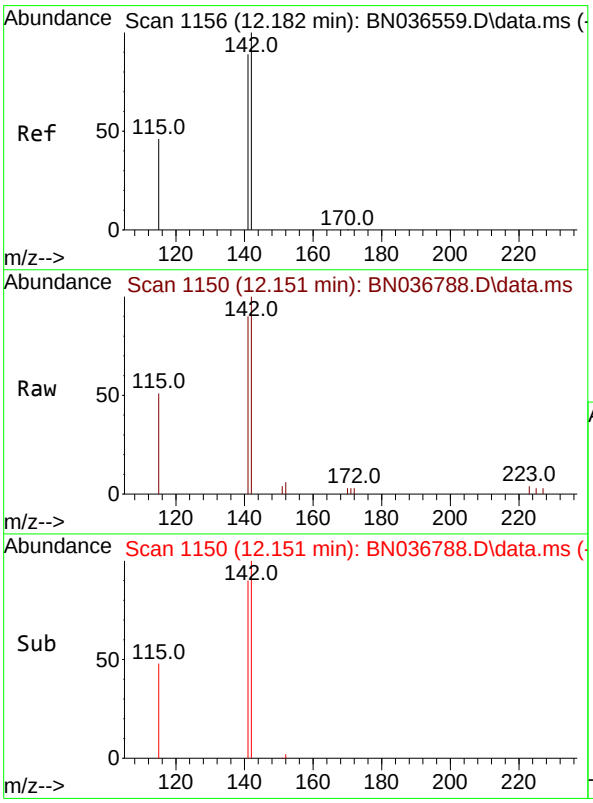
#11
2-Methylnaphthalene-d10
Concen: 0.554 ng
RT: 12.075 min Scan# 11
Delta R.T. -0.035 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:152 Resp: 2935

Ion	Ratio	Lower	Upper
152	100		
151	14.8	17.0	25.6#

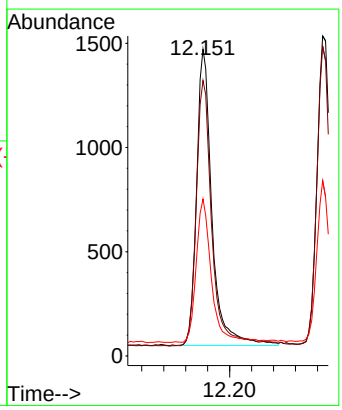


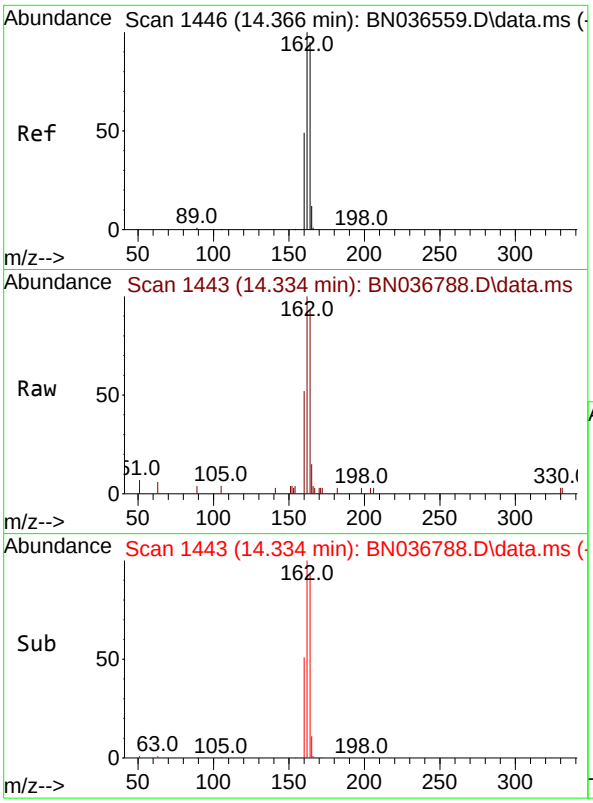


#12
2-Methylnaphthalene
Concen: 0.413 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:142 Resp: 2756

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.7	107.5
115	51.2	38.3	57.5



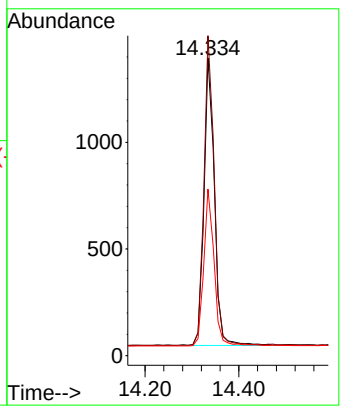


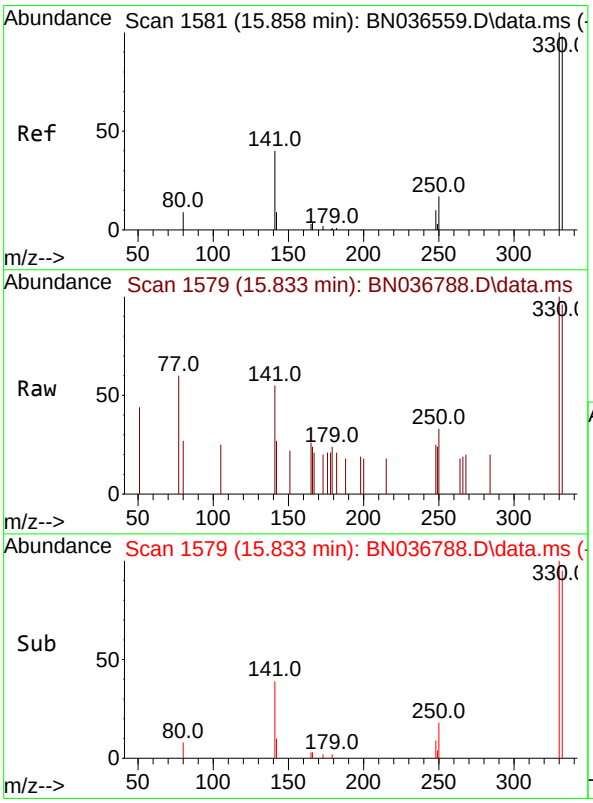
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:164 Resp: 2075

Ion	Ratio	Lower	Upper
164	100		
162	107.4	84.2	126.2
160	55.9	42.2	63.2

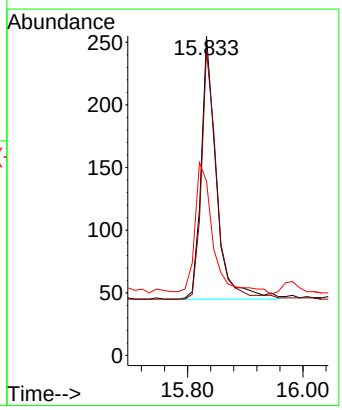


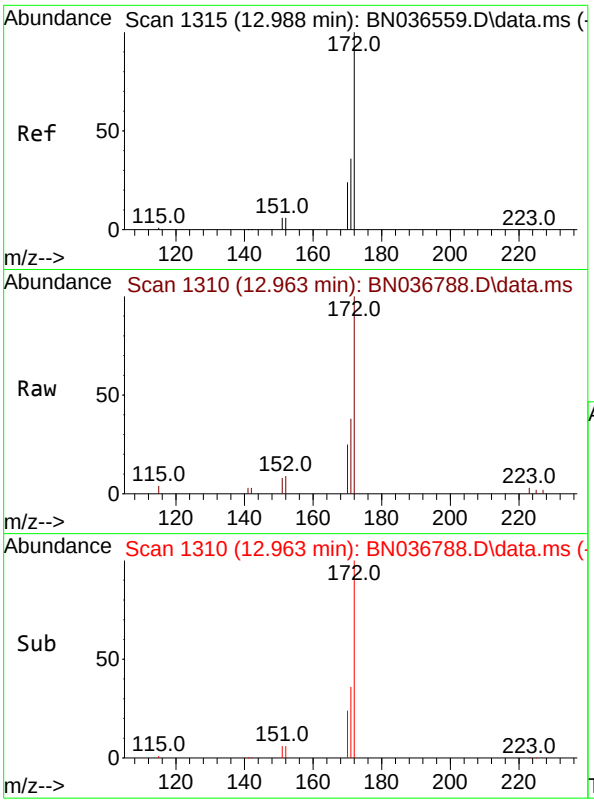


#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:330 Resp: 384

Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.2	112.8
141	59.9	43.4	65.2



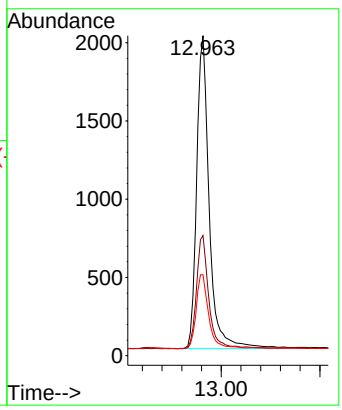


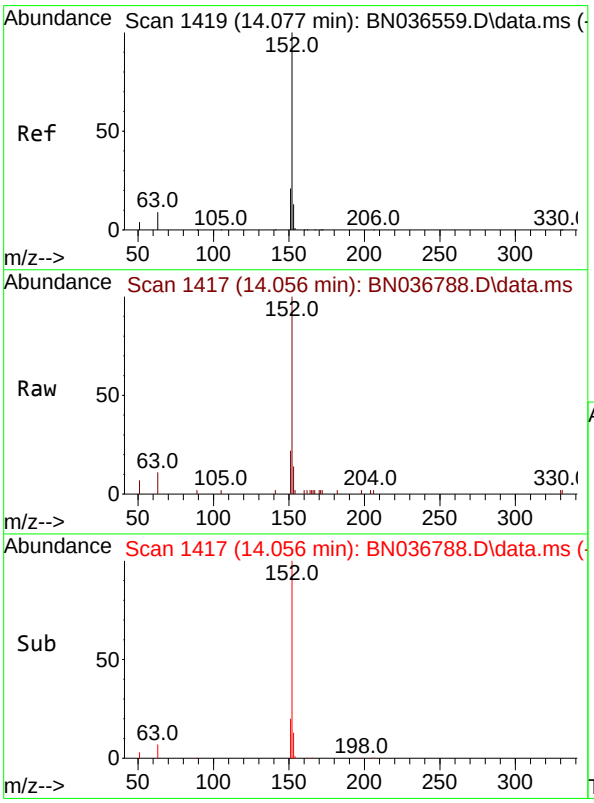
#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:172 Resp: 4747

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.5	44.3
170	25.3	20.2	30.4

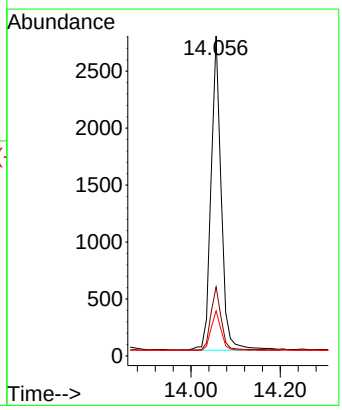


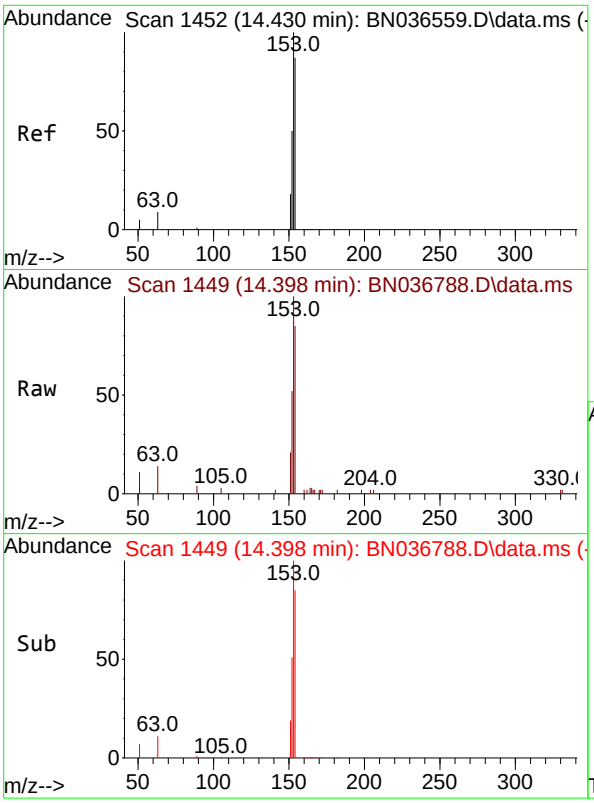


#16
Acenaphthylene
Concen: 0.445 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:152 Resp: 4353

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	12.8	10.6	15.8



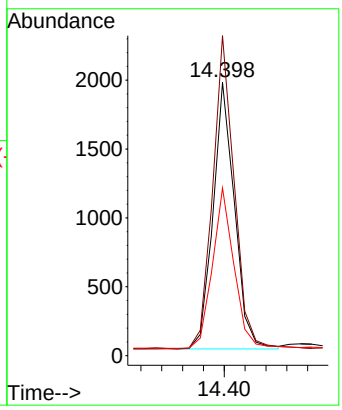


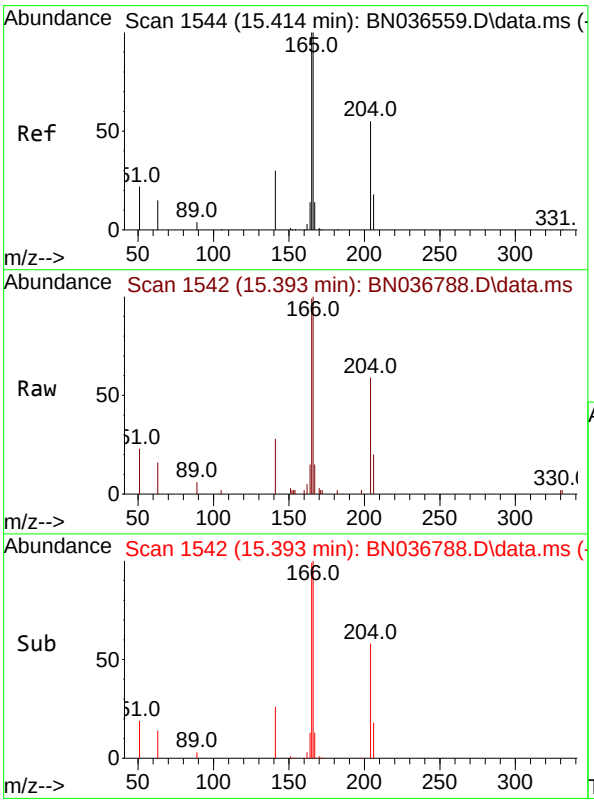
#17
Acenaphthene
Concen: 0.432 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:154 Resp: 2772

Ion	Ratio	Lower	Upper
154	100		
153	118.5	94.1	141.1
152	61.0	49.8	74.6

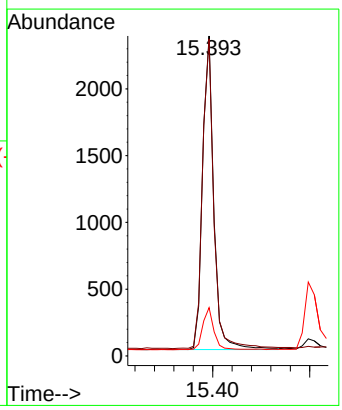


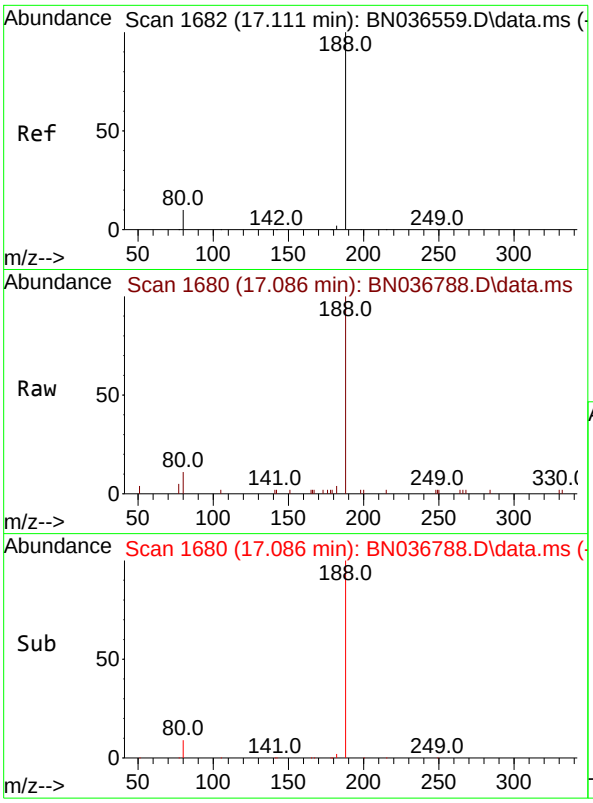


#18
Fluorene
Concen: 0.440 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:166 Resp: 3813

Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.8	119.8
167	13.1	10.6	15.8



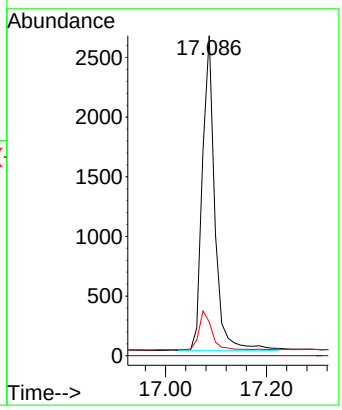


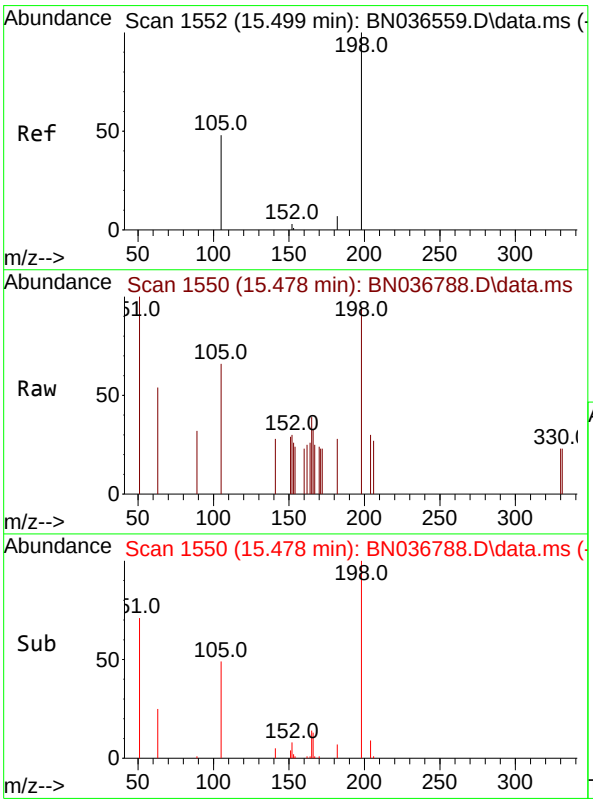
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:188 Resp: 4531

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	8.8	13.2

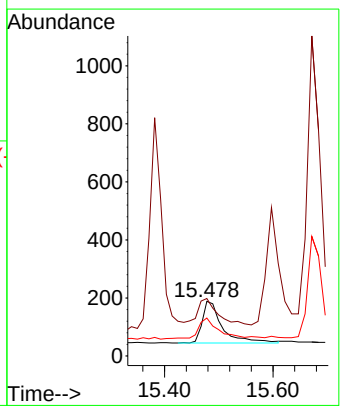


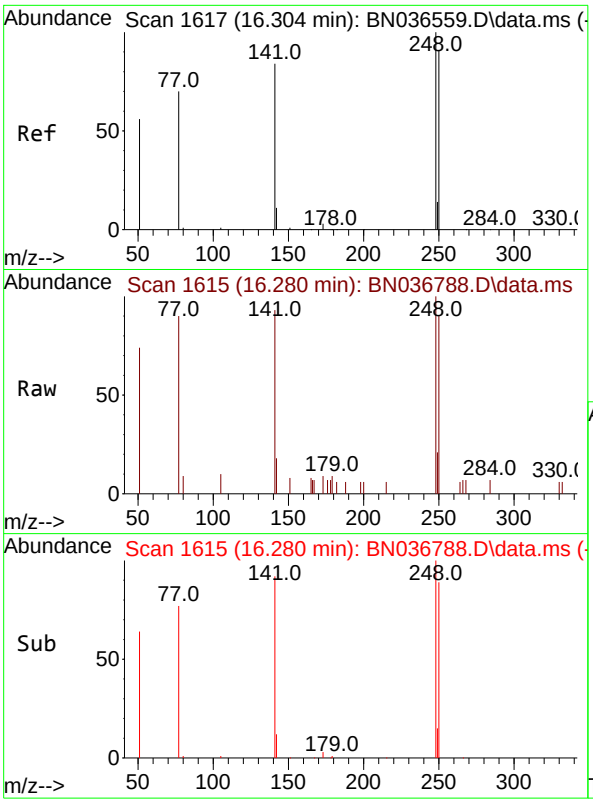


#20
4,6-Dinitro-2-methylphenol
Concen: 0.477 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:198 Resp: 384

Ion	Ratio	Lower	Upper
198	100		
51	105.3	107.9	161.9#
105	69.7	56.2	84.2



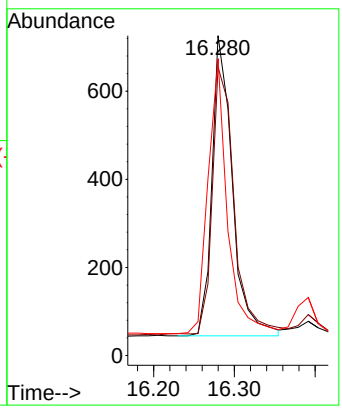


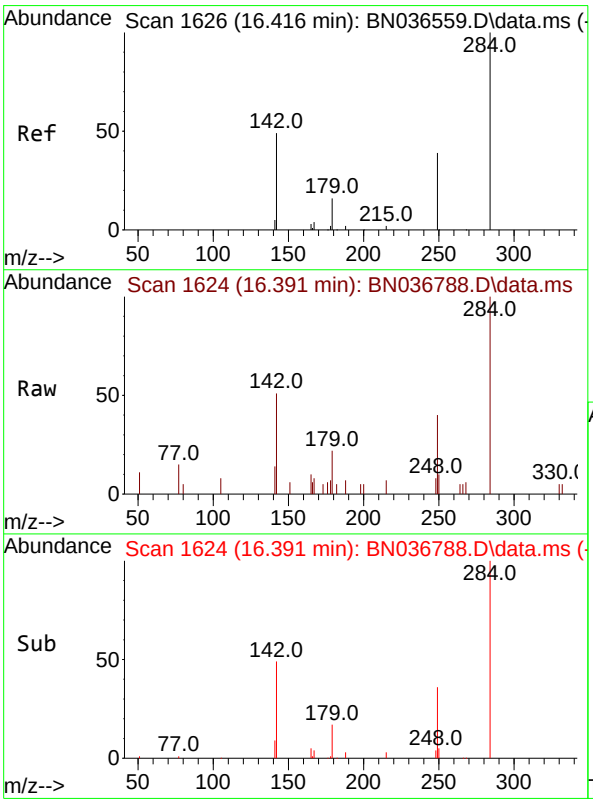
#21
4-Bromophenyl-phenylether
Concen: 0.422 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:248 Resp: 1199

Ion	Ratio	Lower	Upper
248	100		
250	90.2	73.0	109.6
141	92.8	68.6	103.0

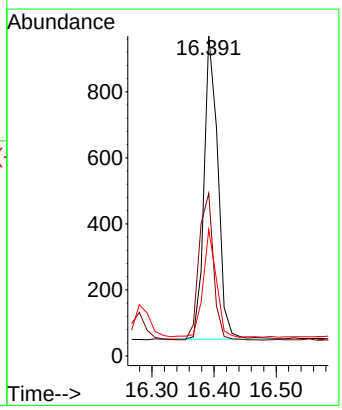


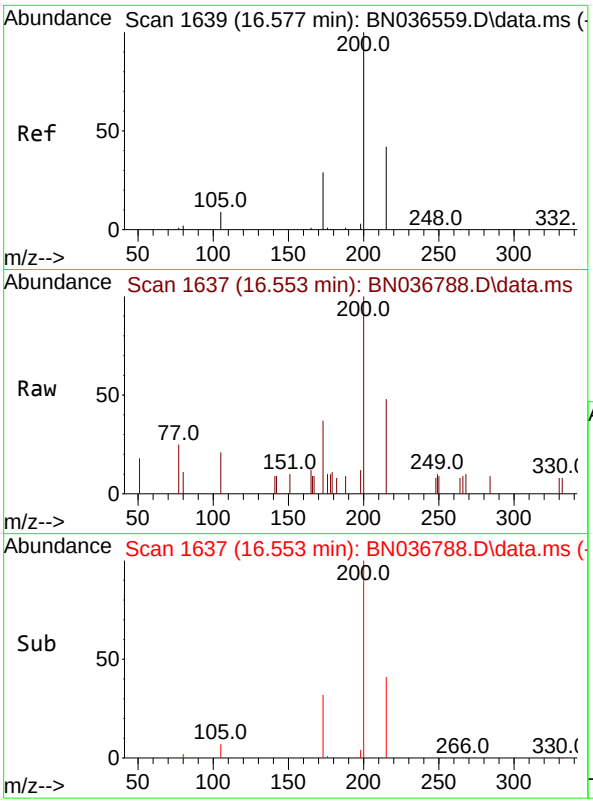


#22
Hexachlorobenzene
Concen: 0.415 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:284 Resp: 1423

Ion	Ratio	Lower	Upper
284	100		
142	51.0	37.0	55.4
249	33.8	28.1	42.1



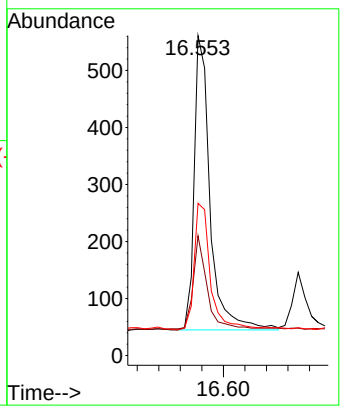


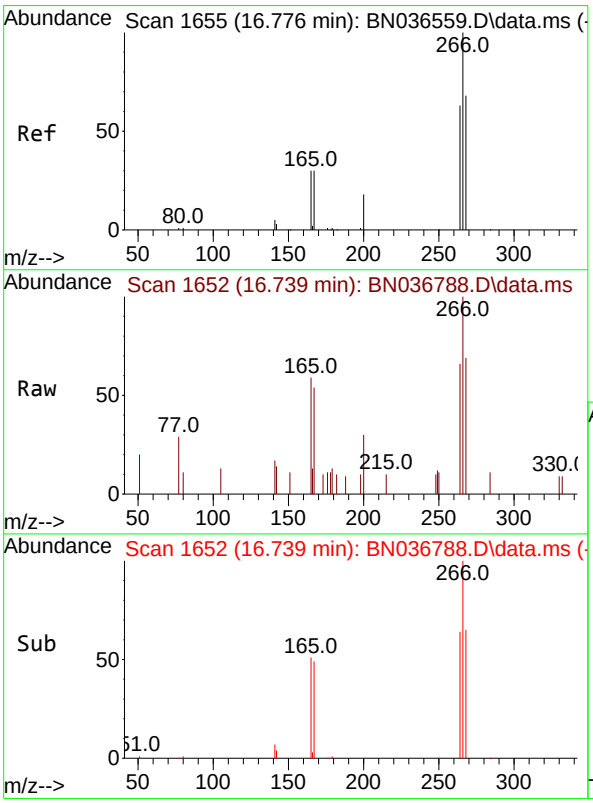
#23
Atrazine
Concen: 0.465 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:200 Resp: 1058

Ion	Ratio	Lower	Upper
200	100		
173	37.4	27.3	40.9
215	47.6	36.8	55.2

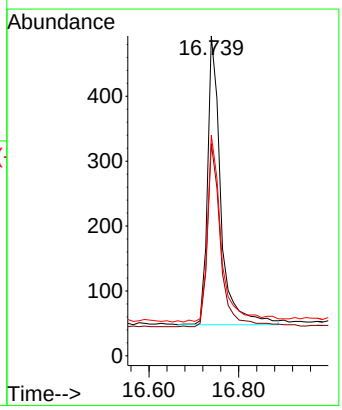


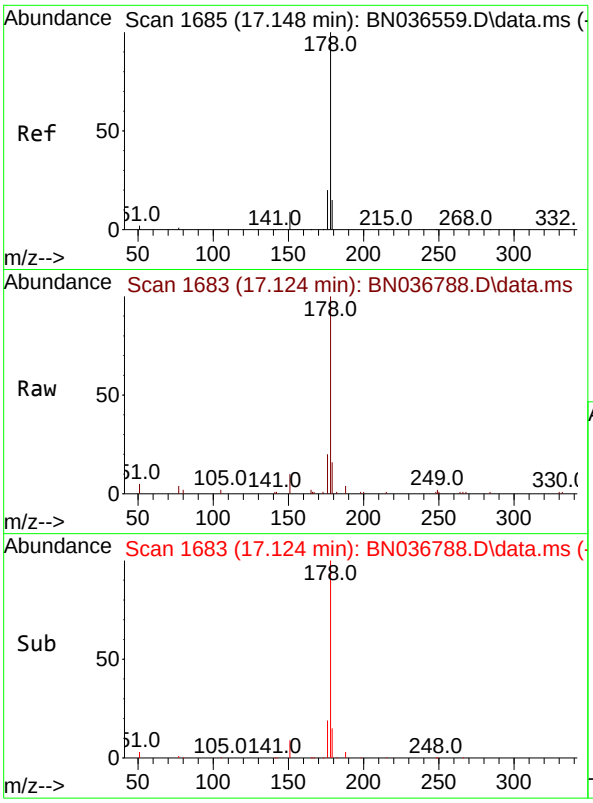


#24
Pentachlorophenol
Concen: 0.581 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:266 Resp: 908

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.6	74.4
268	68.3	50.9	76.3



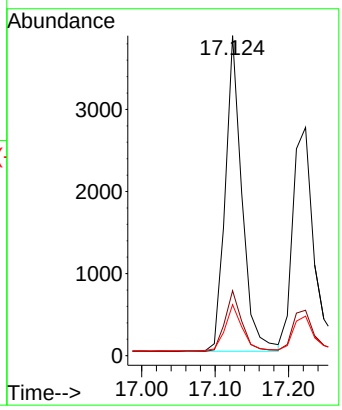


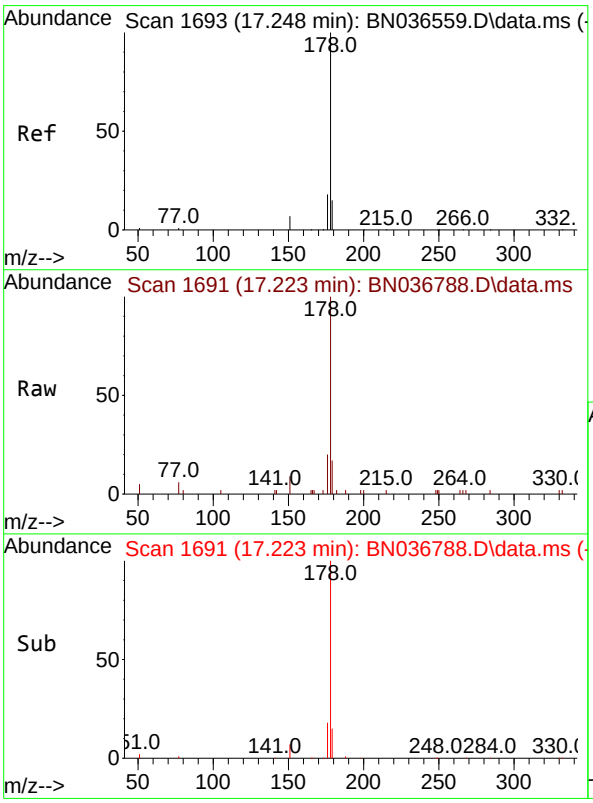
#25
Phenanthrene
Concen: 0.447 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:178 Resp: 6081

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.2	12.2	18.4

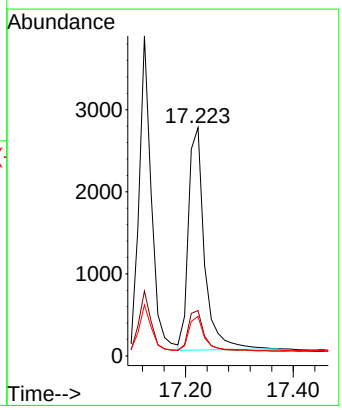


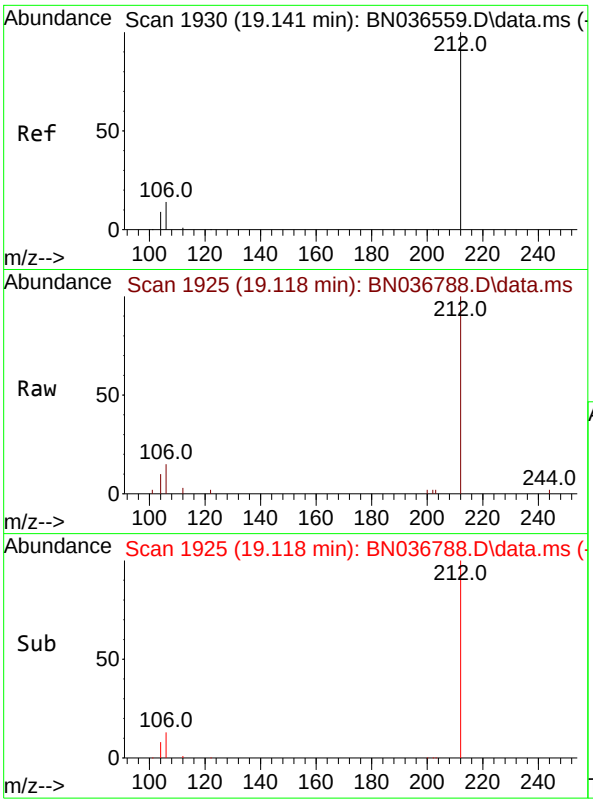


#26
Anthracene
Concen: 0.458 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:178 Resp: 5621

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



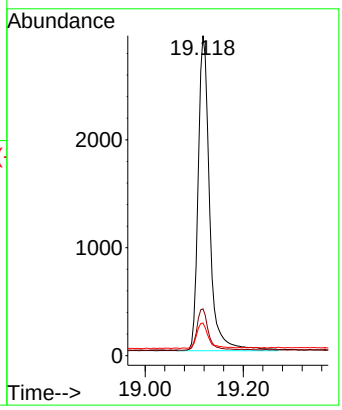


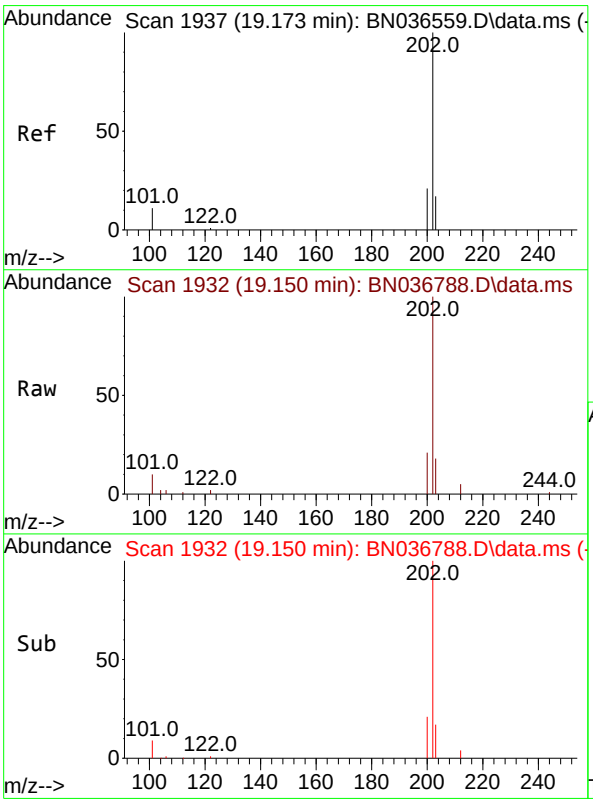
#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:212 Resp: 4737

Ion	Ratio	Lower	Upper
212	100		
106	13.0	11.8	17.6
104	8.4	7.3	10.9

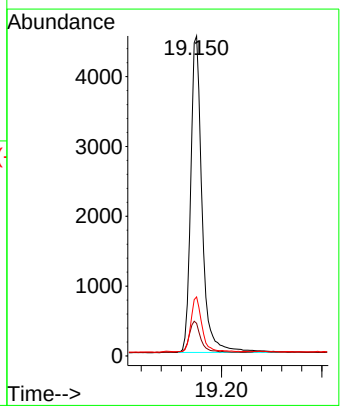


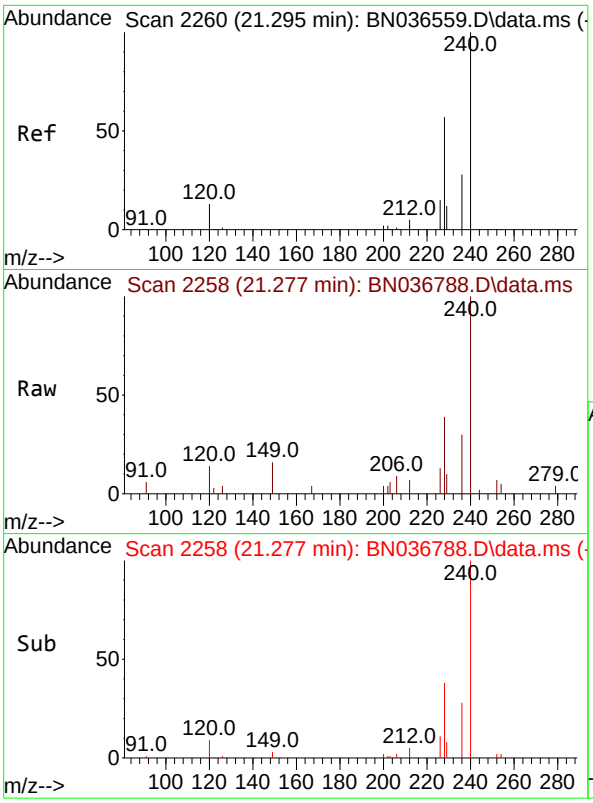


#28
Fluoranthene
Concen: 0.465 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:202 Resp: 7104

Ion	Ratio	Lower	Upper
202	100		
101	10.0	9.4	14.0
203	16.7	13.5	20.3



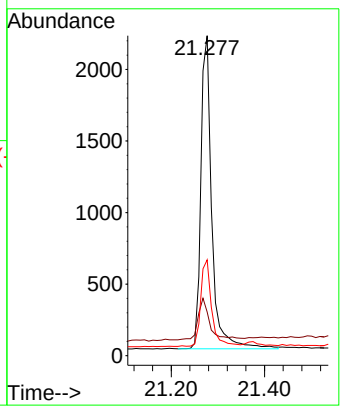


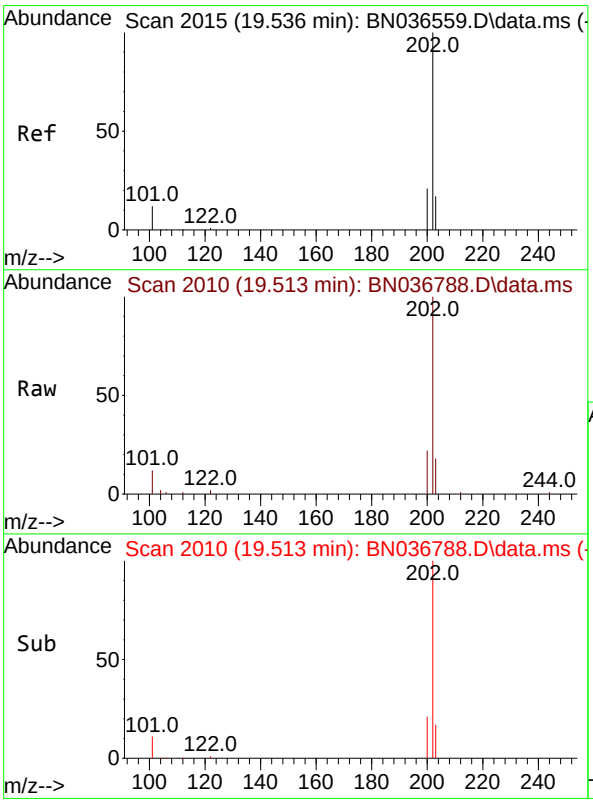
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:240 Resp: 3571

Ion	Ratio	Lower	Upper
240	100		
120	13.6	14.6	22.0#
236	30.0	24.1	36.1

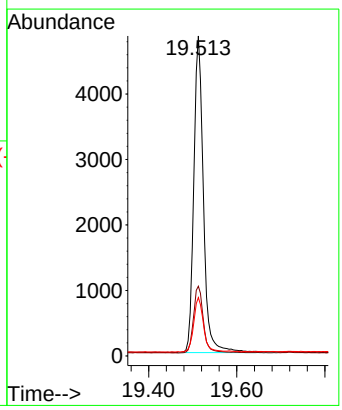


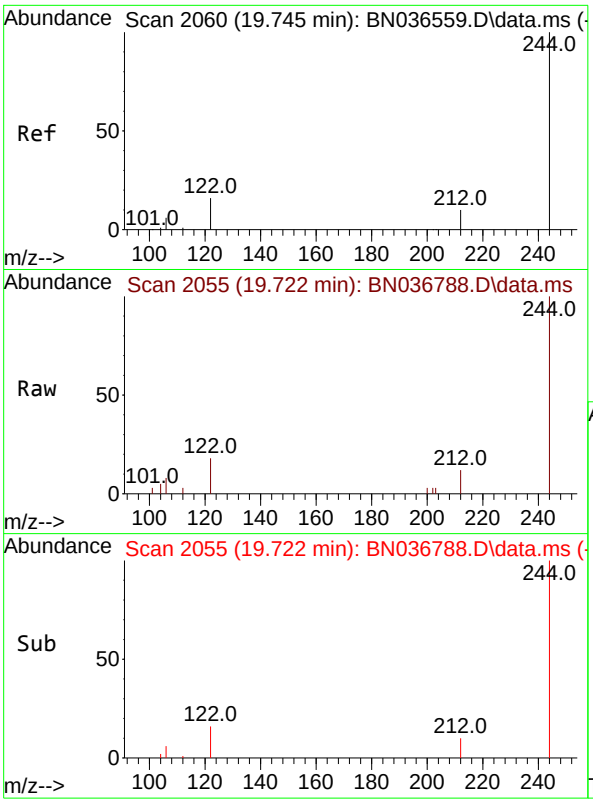


#30
Pyrene
Concen: 0.422 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:202 Resp: 7362

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



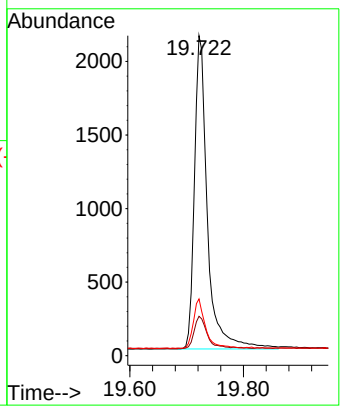


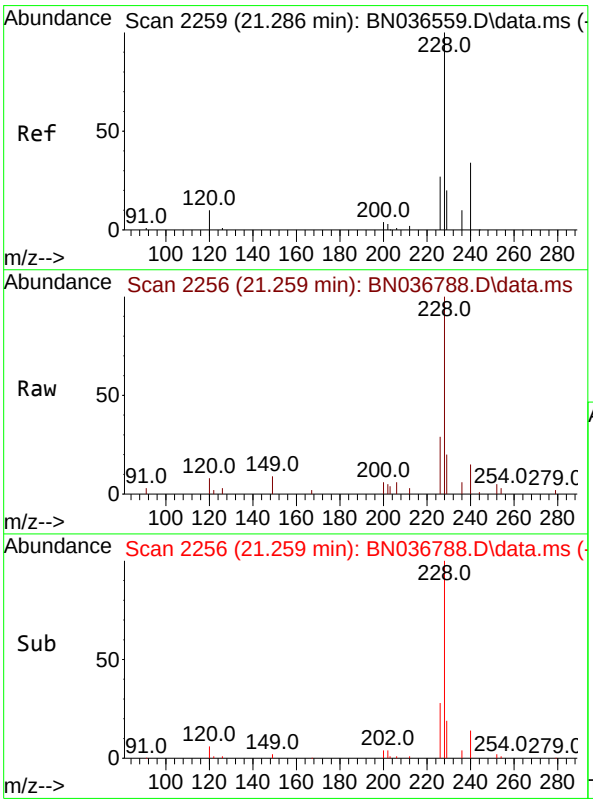
#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:244 Resp: 3374

Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.6	14.4
122	17.7	13.9	20.9

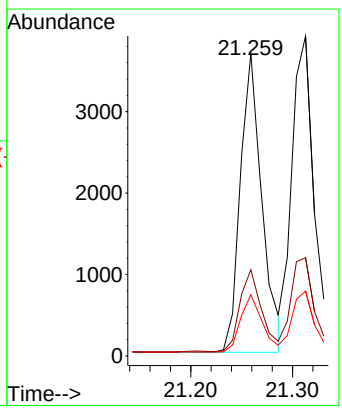


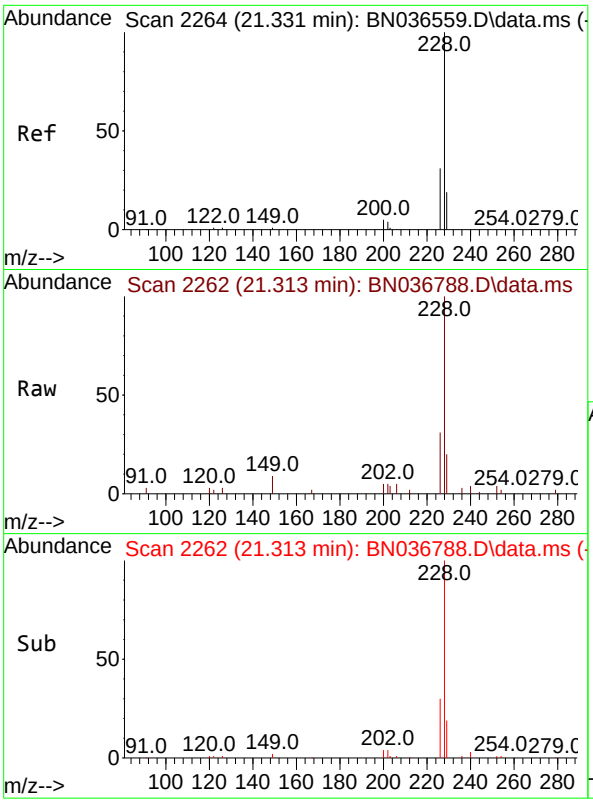


#32
Benzo(a)anthracene
Concen: 0.435 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:228 Resp: 5399

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.2	16.6	25.0



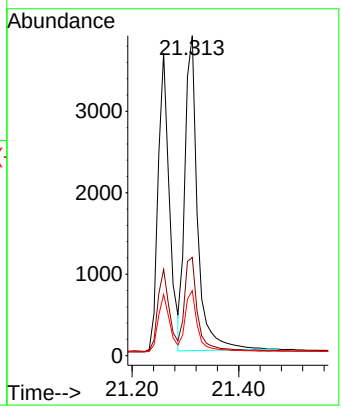


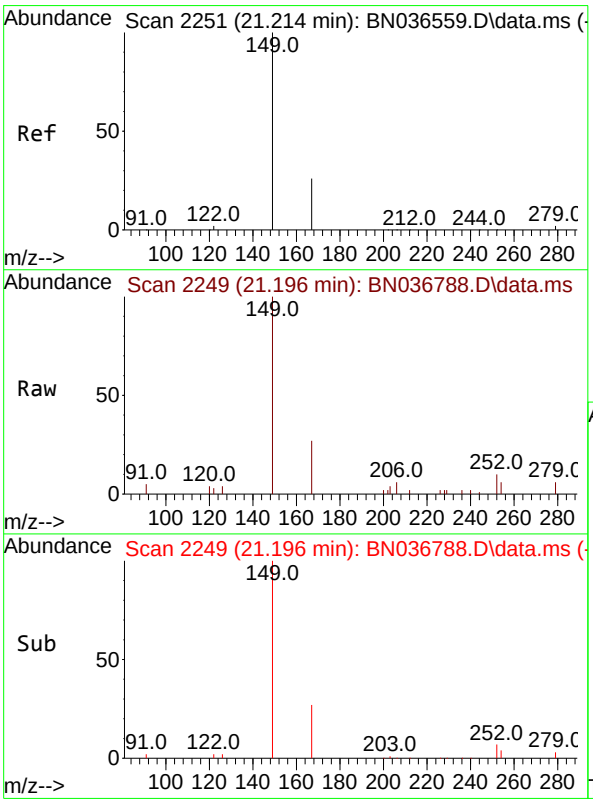
#33
Chrysene
Concen: 0.471 ng
RT: 21.313 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:228 Resp: 6396

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.3	37.9
229	20.3	15.8	23.8

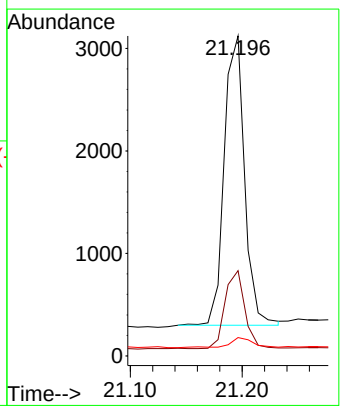


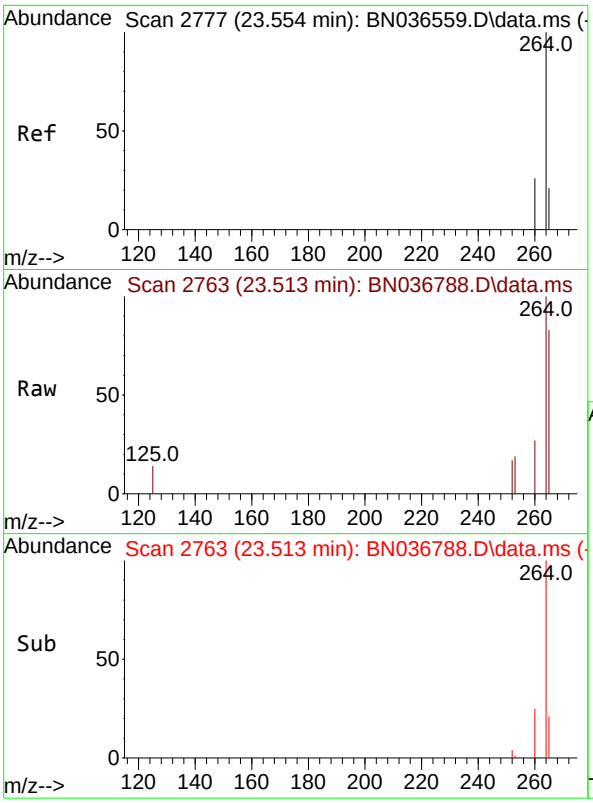


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.404 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:149 Resp: 3569

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	4.0	3.6	5.4



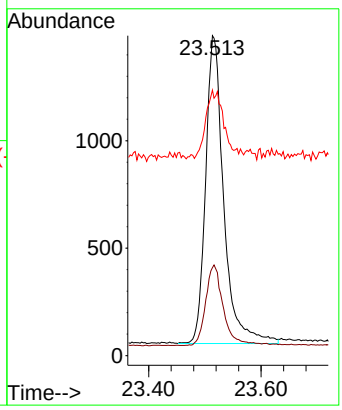


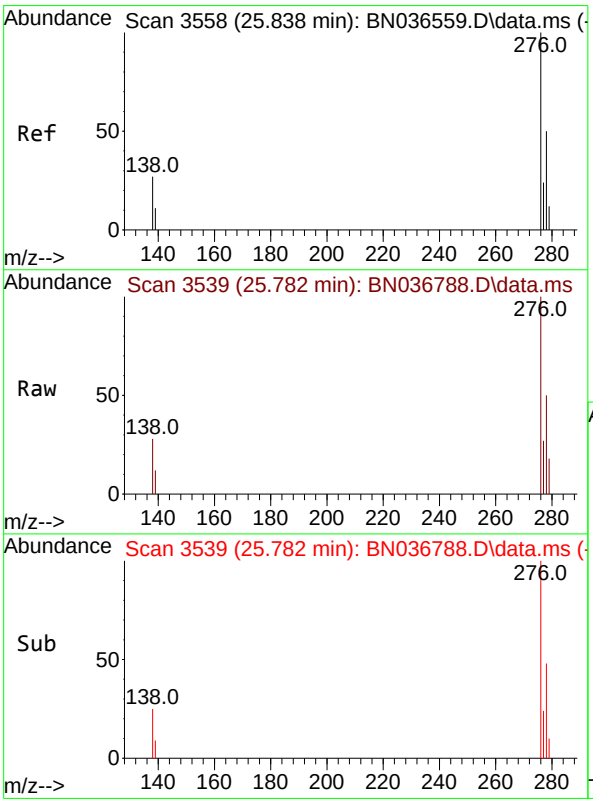
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.513 min Scan# 2
Delta R.T. -0.041 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:264 Resp: 3214

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.6	33.8
265	83.0	88.1	132.1#

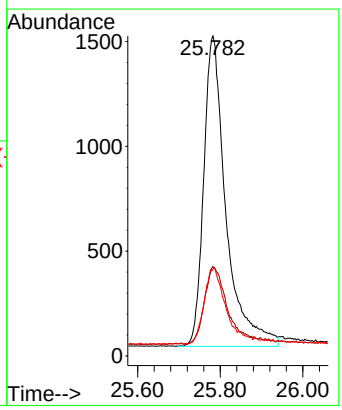


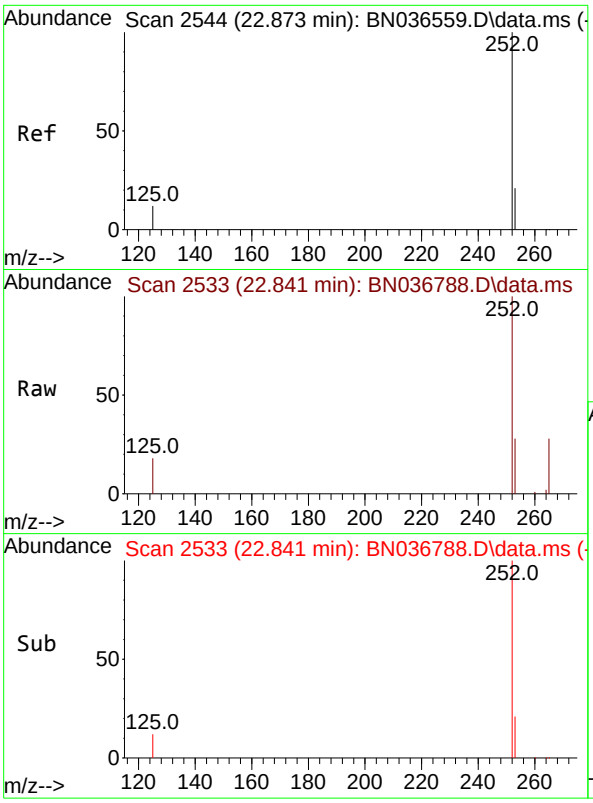


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.478 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.055 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:276 Resp: 5542

Ion	Ratio	Lower	Upper
276	100		
138	25.8	23.4	35.2
277	24.4	20.0	30.0



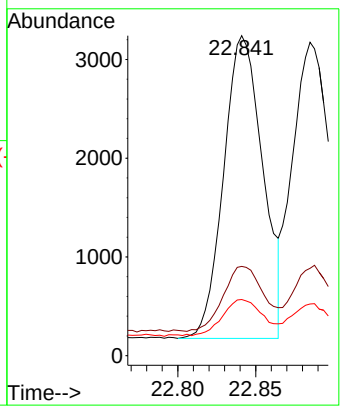


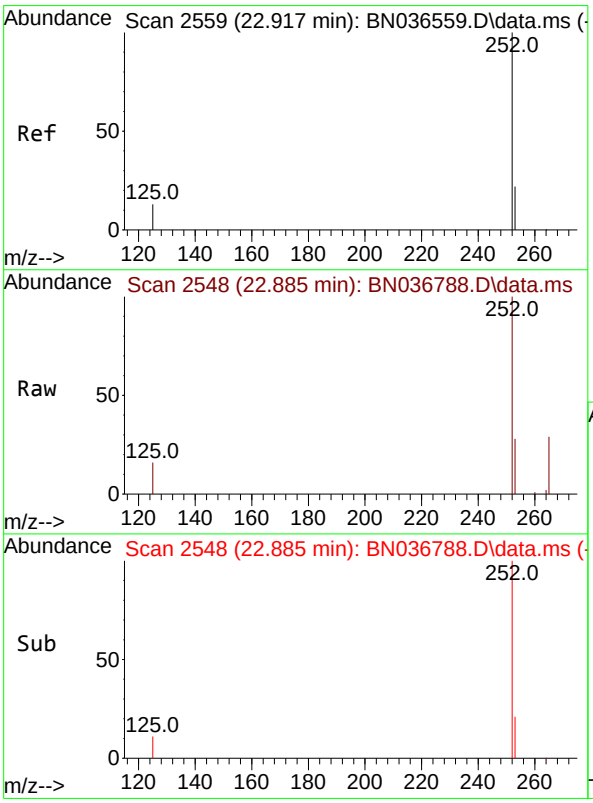
#37
Benzo(b)fluoranthene
Concen: 0.459 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:252 Resp: 5372

Ion	Ratio	Lower	Upper
252	100		
253	27.9	23.9	35.9
125	17.6	17.4	26.2

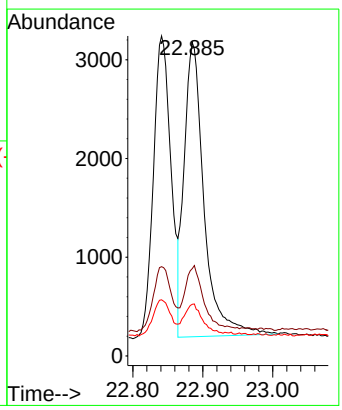


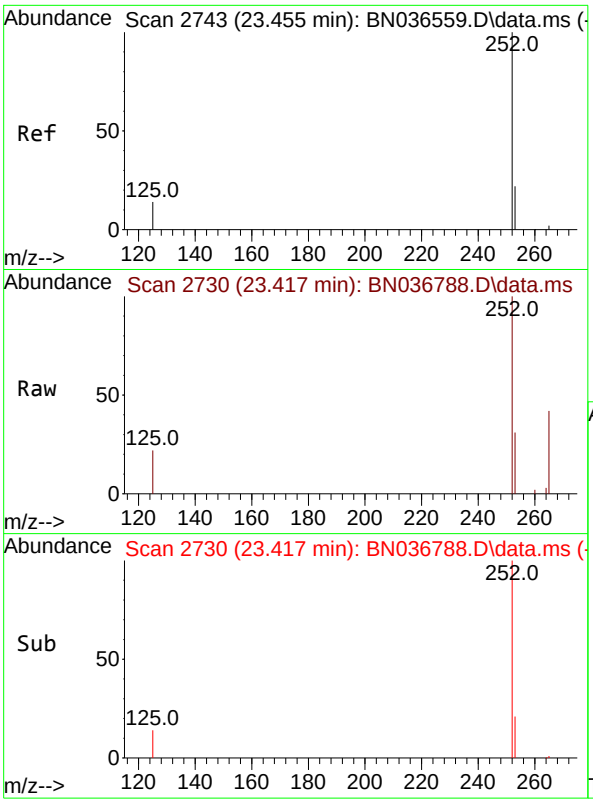


#38
Benzo(k)fluoranthene
Concen: 0.480 ng
RT: 22.885 min Scan# 2548
Delta R.T. -0.032 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:252 Resp: 5891

Ion	Ratio	Lower	Upper
252	100		
253	27.9	24.6	36.8
125	16.5	17.8	26.8#



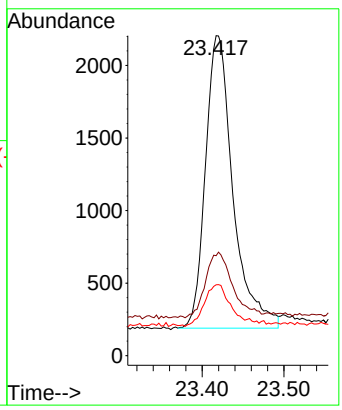


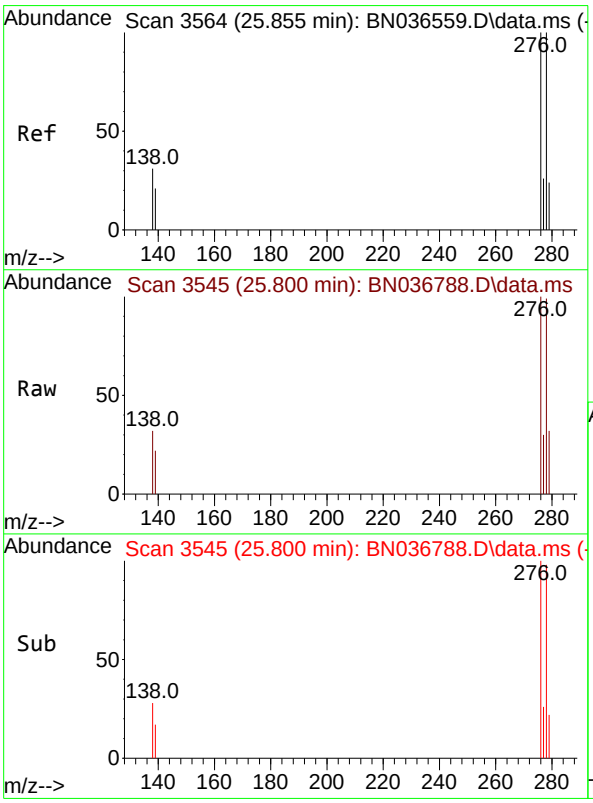
#39
Benzo(a)pyrene
Concen: 0.480 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:252 Resp: 4725

Ion	Ratio	Lower	Upper
252	100		
253	31.2	27.8	41.8
125	22.2	22.7	34.1#

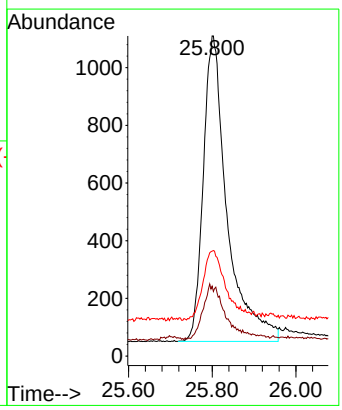


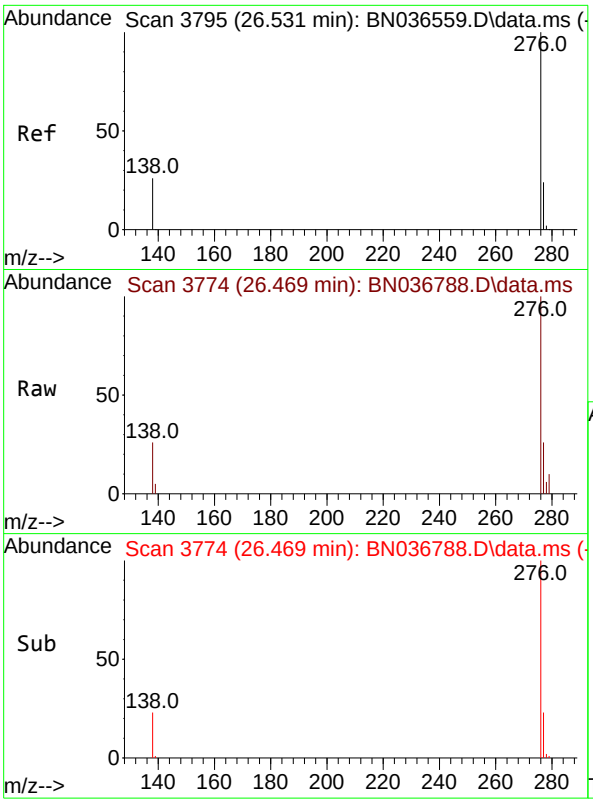


#40
Dibenzo(a,h)anthracene
Concen: 0.464 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Tgt Ion:278 Resp: 4192

Ion	Ratio	Lower	Upper
278	100		
139	21.8	20.8	31.2
279	32.8	28.8	43.2



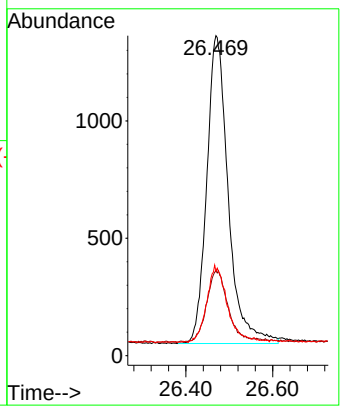


#41
Benzo(g,h,i)perylene
Concen: 0.437 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036788.D
Acq: 29 Mar 2025 00:14

Instrument :
BNA_N
ClientSampleId :
PB167251BSD

Tgt Ion:276 Resp: 4510

Ion	Ratio	Lower	Upper
276	100		
277	26.5	22.2	33.4
138	26.4	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036789.D
Acq On : 29 Mar 2025 00:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 29 01:57:50 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 16:06:28 2025
Response via : Initial Calibration

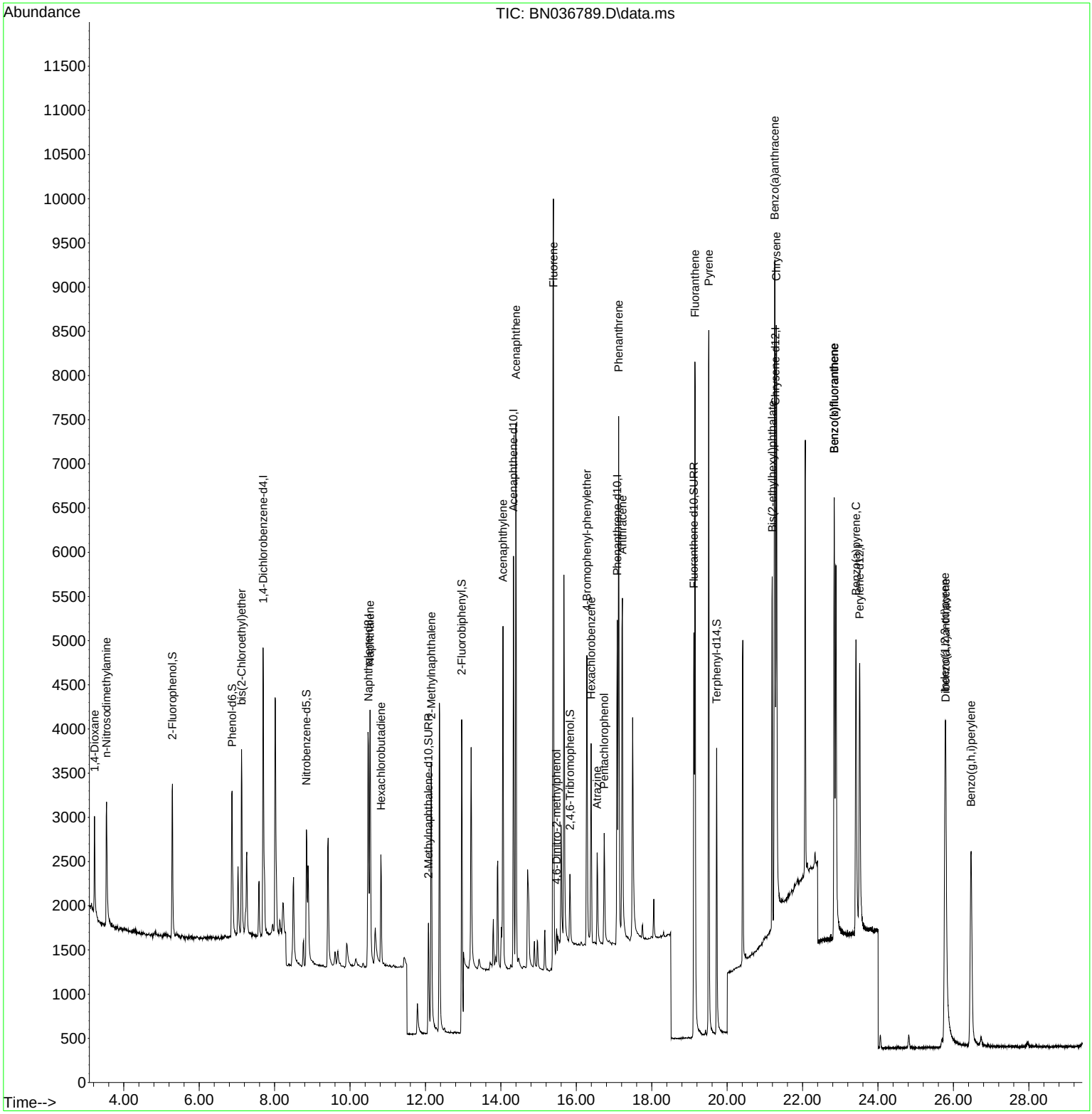
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.695	152	1603	0.400	ng		-0.03
7) Naphthalene-d8	10.487	136	3990	0.400	ng		#-0.02
13) Acenaphthene-d10	14.334	164	2534	0.400	ng		-0.03
19) Phenanthrene-d10	17.086	188	5432	0.400	ng		-0.02
29) Chrysene-d12	21.277	240	4742	0.400	ng		#-0.02
35) Perylene-d12	23.516	264	4392	0.400	ng		#-0.04
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1346	0.360	ng		-0.02
5) Phenol-d6	6.872	99	1556	0.337	ng		-0.03
8) Nitrobenzene-d5	8.843	82	1480	0.341	ng		-0.03
11) 2-Methylnaphthalene-d10	12.080	152	2109	0.355	ng		-0.03
14) 2,4,6-Tribromophenol	15.833	330	450	0.391	ng		-0.02
15) 2-Fluorobiphenyl	12.963	172	4866	0.330	ng		-0.03
27) Fluoranthene-d10	19.118	212	5616	0.403	ng		-0.02
31) Terphenyl-d14	19.722	244	3703	0.326	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.225	88	695	0.391	ng		98
3) n-Nitrosodimethylamine	3.543	42	1396	0.388	ng		93
6) bis(2-Chloroethyl)ether	7.125	93	1599	0.335	ng		97
9) Naphthalene	10.530	128	4134	0.352	ng		99
10) Hexachlorobutadiene	10.818	225	1026	0.371	ng	#	97
12) 2-Methylnaphthalene	12.156	142	2744	0.367	ng		98
16) Acenaphthylene	14.056	152	4217	0.353	ng		98
17) Acenaphthene	14.398	154	2811	0.359	ng		99
18) Fluorene	15.392	166	3945	0.373	ng		99
20) 4,6-Dinitro-2-methylph...	15.478	198	419	0.448	ng		84
21) 4-Bromophenyl-phenylether	16.280	248	1262	0.371	ng		96
22) Hexachlorobenzene	16.391	284	1487	0.362	ng		95
23) Atrazine	16.553	200	1073	0.393	ng		96
24) Pentachlorophenol	16.739	266	722	0.385	ng		98
25) Phenanthrene	17.124	178	6223	0.382	ng		99
26) Anthracene	17.223	178	5484	0.373	ng		99
28) Fluoranthene	19.146	202	7639	0.417	ng		98
30) Pyrene	19.513	202	7743	0.334	ng		100
32) Benzo(a)anthracene	21.259	228	5885	0.357	ng		99
33) Chrysene	21.304	228	6911	0.384	ng		99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3944	0.336	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5807	0.366	ng		94
37) Benzo(b)fluoranthene	22.841	252	6060	0.379	ng		96
38) Benzo(k)fluoranthene	22.841	252	6060	0.361	ng		95
39) Benzo(a)pyrene	23.417	252	5189	0.386	ng		96
40) Dibenzo(a,h)anthracene	25.797	278	4244	0.344	ng		94
41) Benzo(g,h,i)perylene	26.469	276	5171	0.366	ng		96

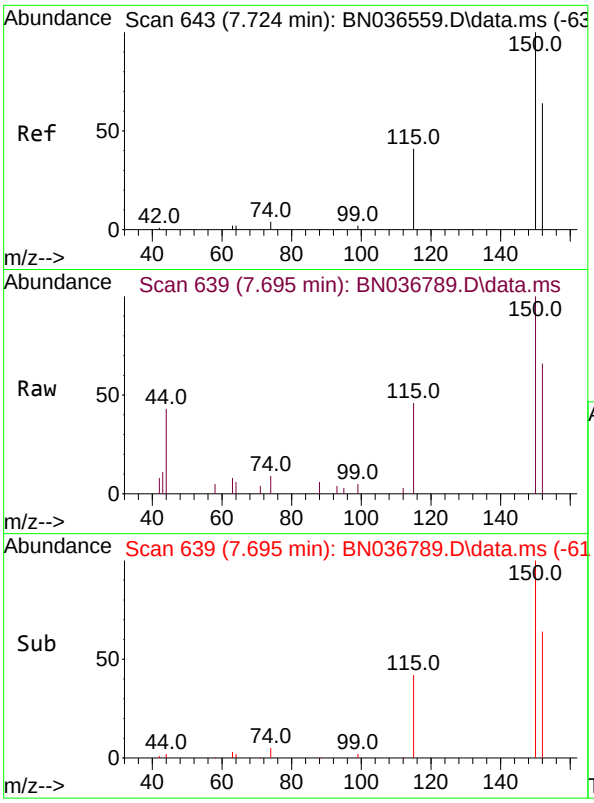
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036789.D
Acq On : 29 Mar 2025 00:50
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 29 01:57:50 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 16:06:28 2025
Response via : Initial Calibration



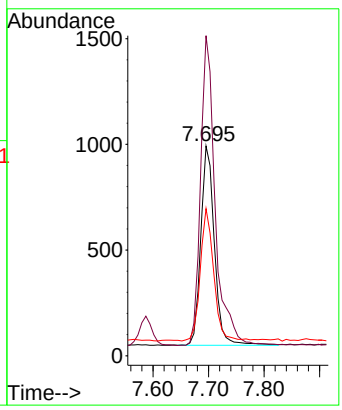


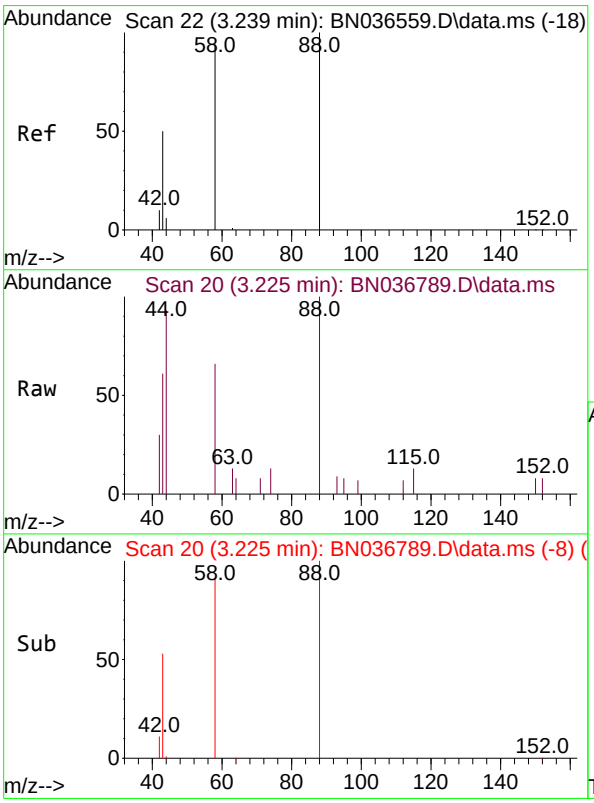
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 6
Delta R.T. -0.029 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1603

Ion	Ratio	Lower	Upper
152	100		
150	152.6	123.7	185.5
115	70.2	54.3	81.5

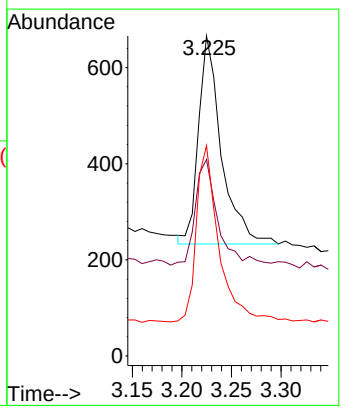


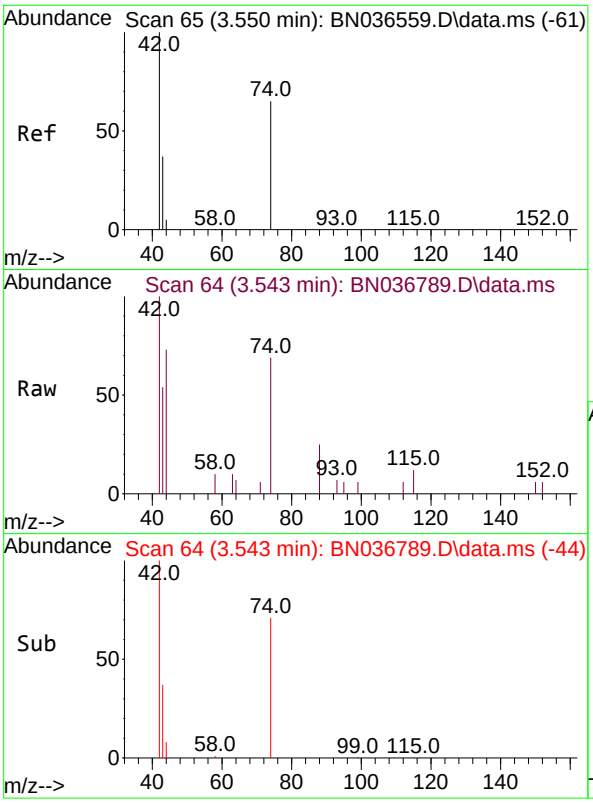


#2
1,4-Dioxane
Concen: 0.391 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion: 88 Resp: 695

Ion	Ratio	Lower	Upper
88	100		
43	49.8	37.8	56.8
58	83.0	67.4	101.2



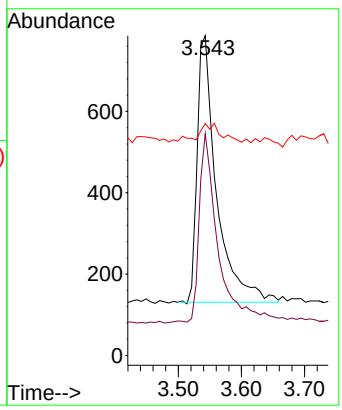


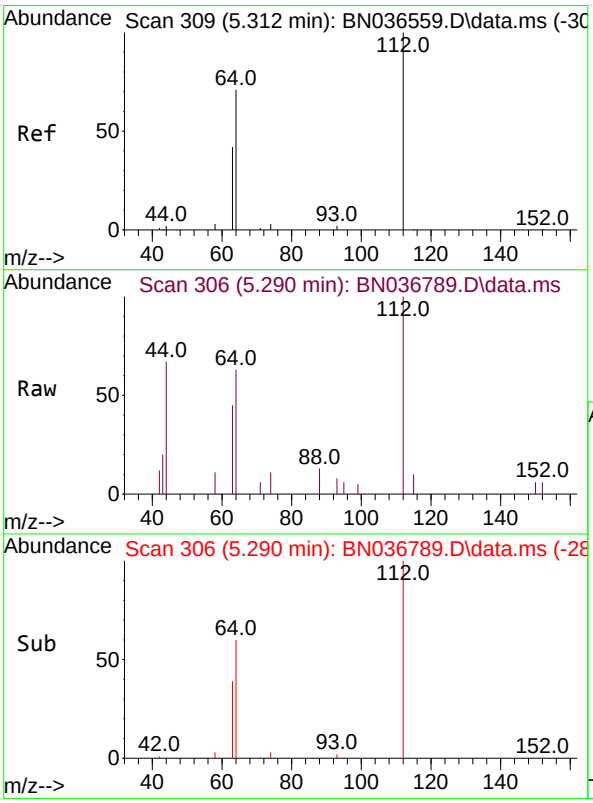
#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1396

Ion	Ratio	Lower	Upper
42	100		
74	69.6	60.6	90.8
44	6.9	6.3	9.5

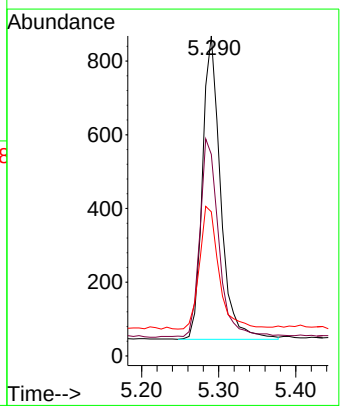


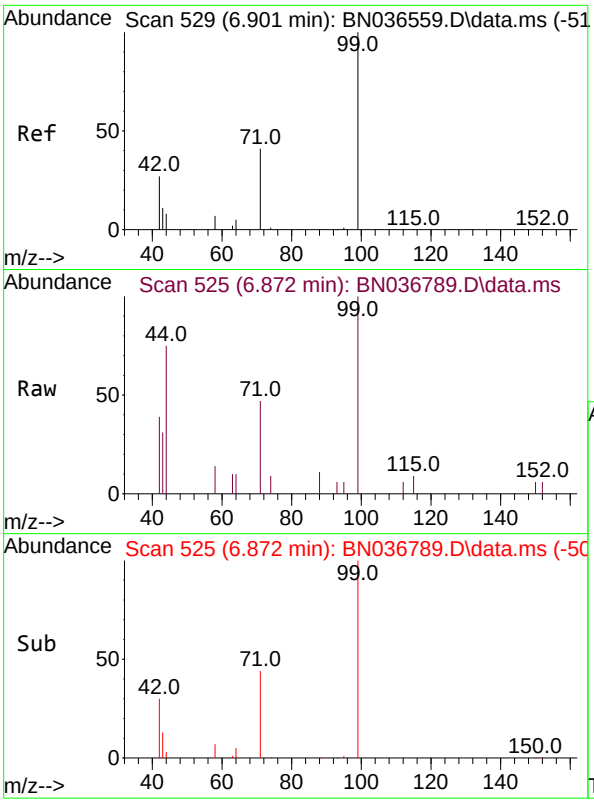


#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:112 Resp: 1346

Ion	Ratio	Lower	Upper
112	100		
64	68.6	53.1	79.7
63	43.5	31.8	47.8



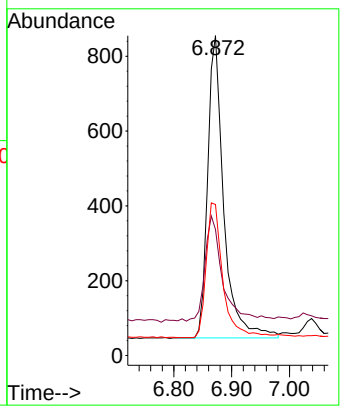


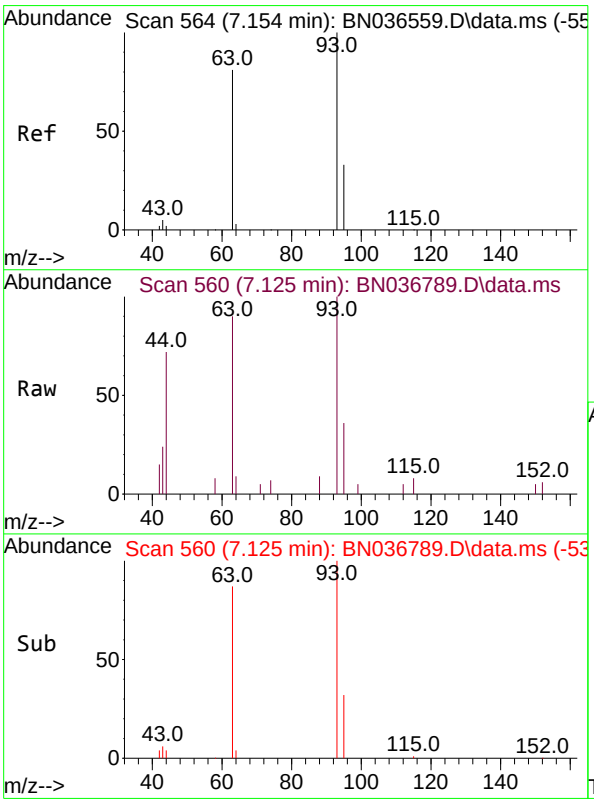
#5
Phenol-d6
Concen: 0.337 ng
RT: 6.872 min Scan# 5
Delta R.T. -0.029 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1556

Ion	Ratio	Lower	Upper
99	100		
42	38.9	26.5	39.7
71	46.6	34.1	51.1

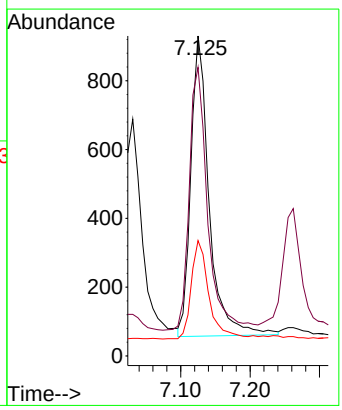


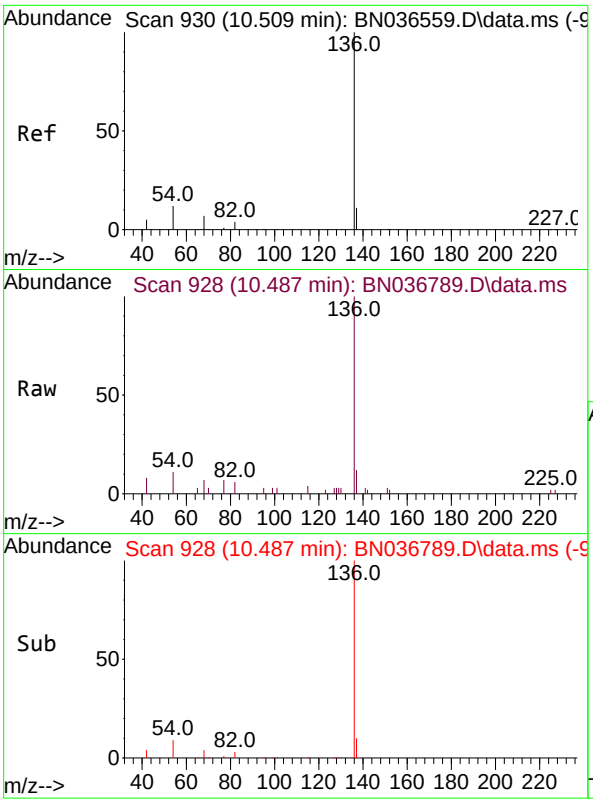


#6
bis(2-Chloroethyl)ether
Concen: 0.335 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion: 93 Resp: 1599

Ion	Ratio	Lower	Upper
93	100		
63	87.9	67.7	101.5
95	31.6	25.6	38.4



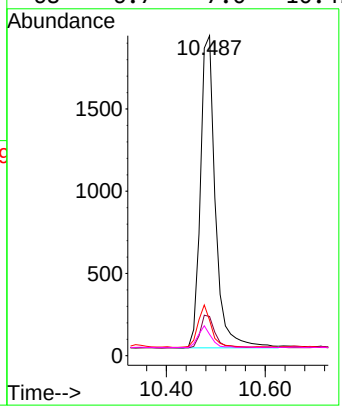


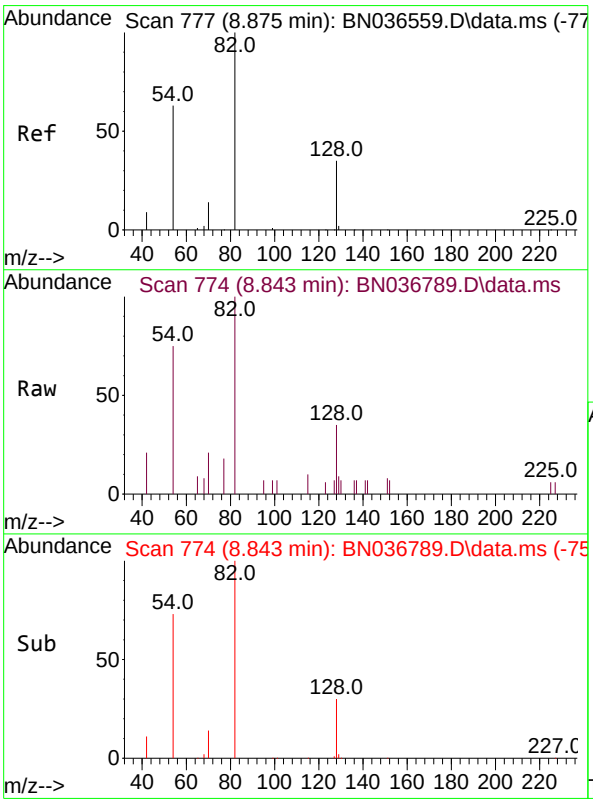
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 3990

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.3	15.5
54	11.1	11.5	17.3#
68	6.7	7.0	10.4#

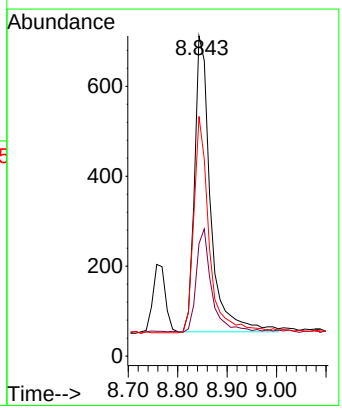


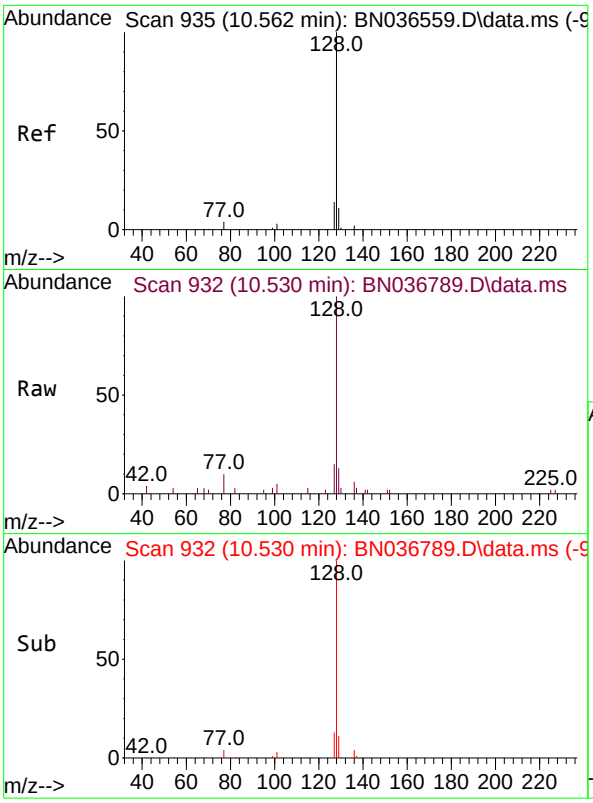


#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion: 82 Resp: 1480

Ion	Ratio	Lower	Upper
82	100		
128	35.1	30.6	45.8
54	74.9	52.2	78.4



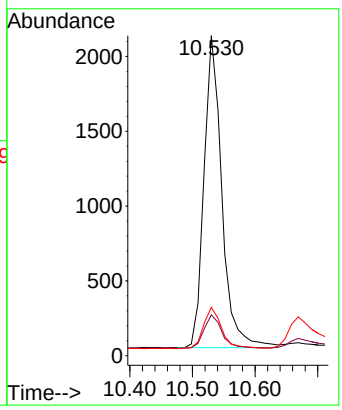


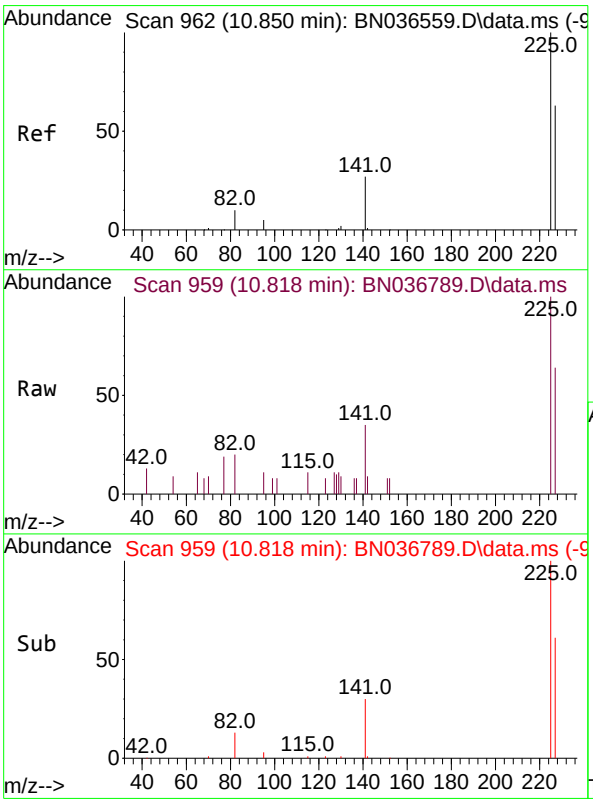
#9
Naphthalene
Concen: 0.352 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4134

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.1	11.8	17.8

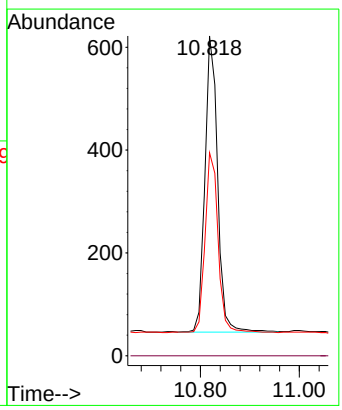


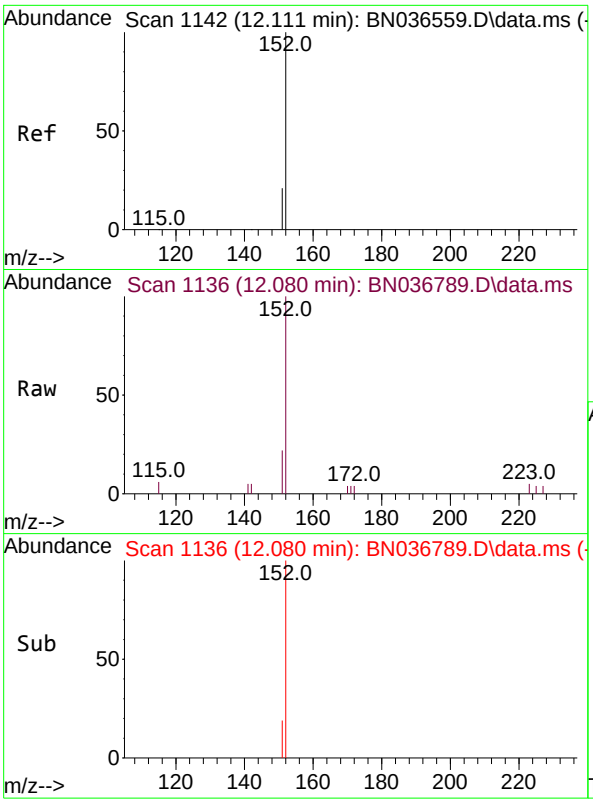


#10
Hexachlorobutadiene
Concen: 0.371 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:225 Resp: 1026

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



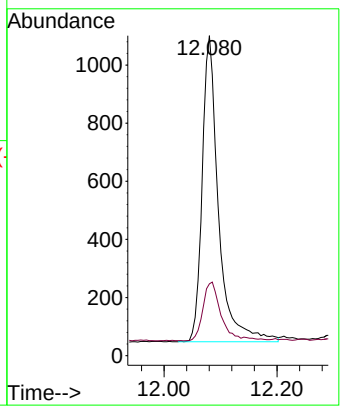


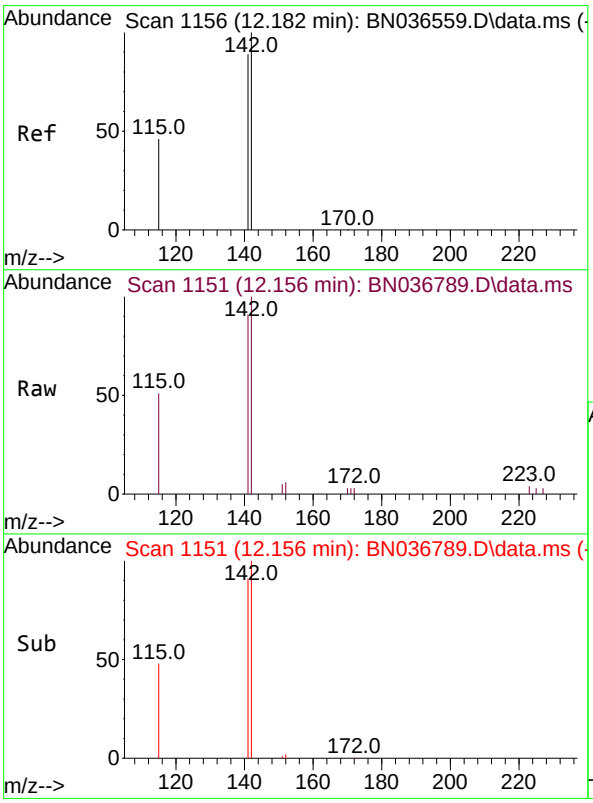
#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.080 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2109

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

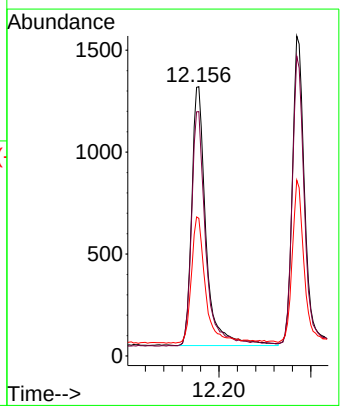


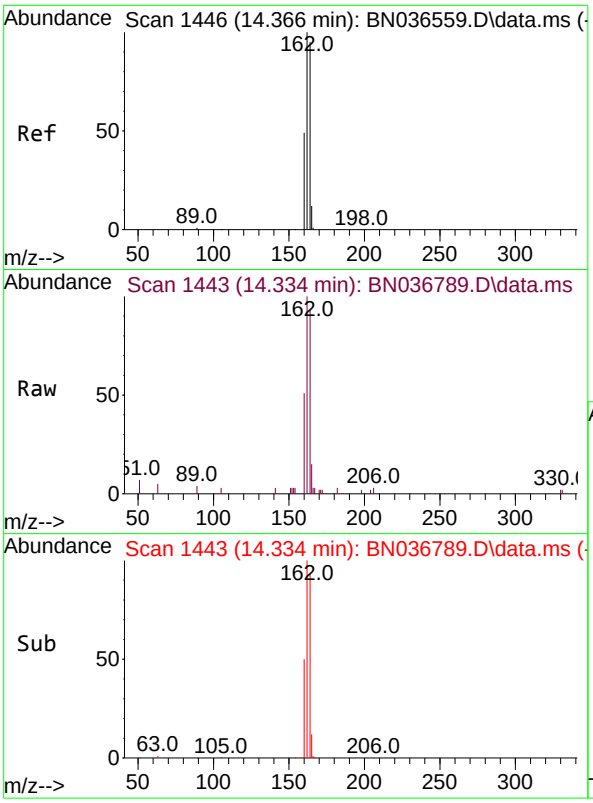


#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:142 Resp: 2744

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.7	107.5
115	51.1	38.3	57.5



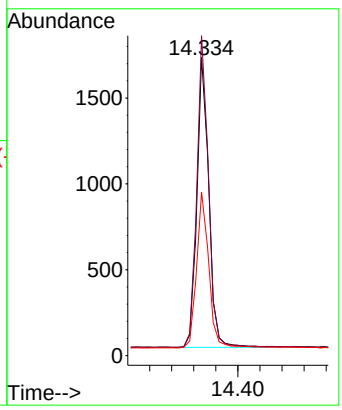


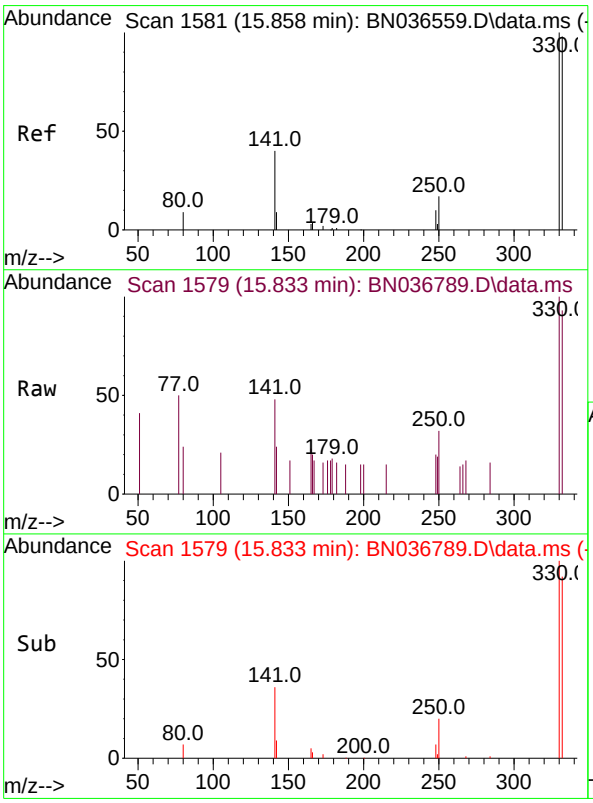
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2534

Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.2
160	54.8	42.2	63.2

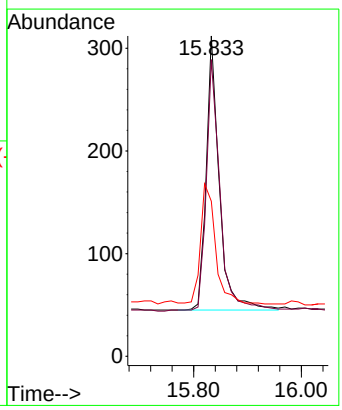


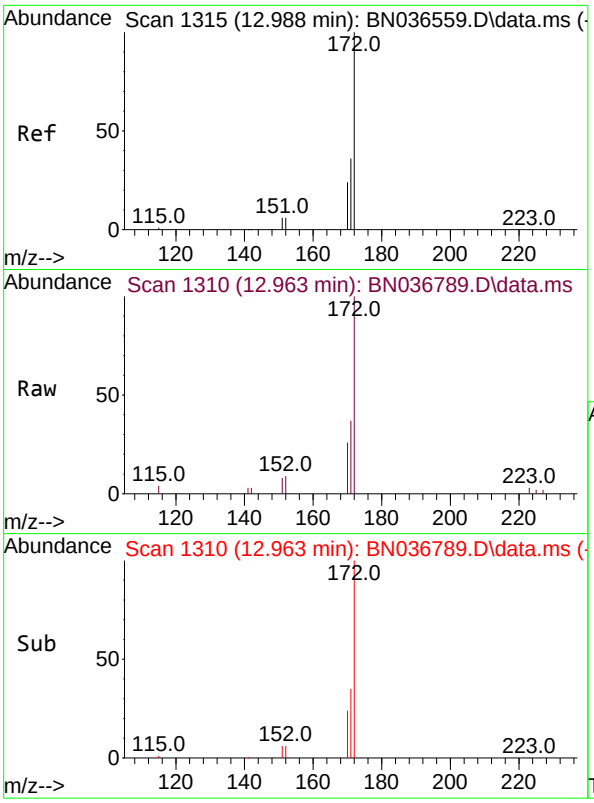


#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:330 Resp: 450

Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.2	112.8
141	50.2	43.4	65.2



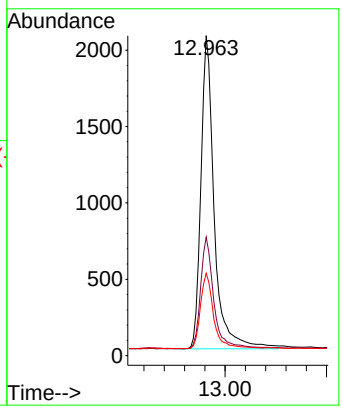


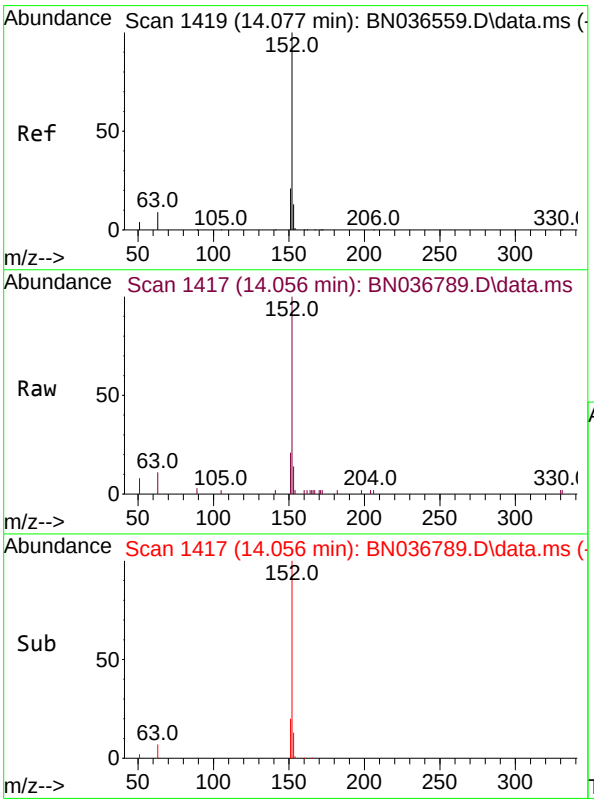
#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 12.963 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 4866

Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.5	44.3
170	25.7	20.2	30.4

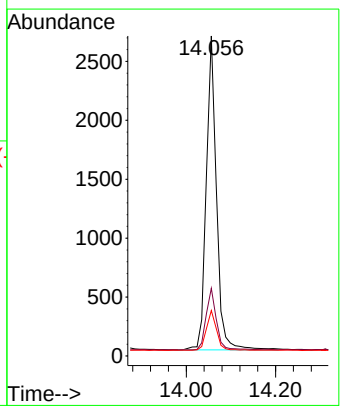


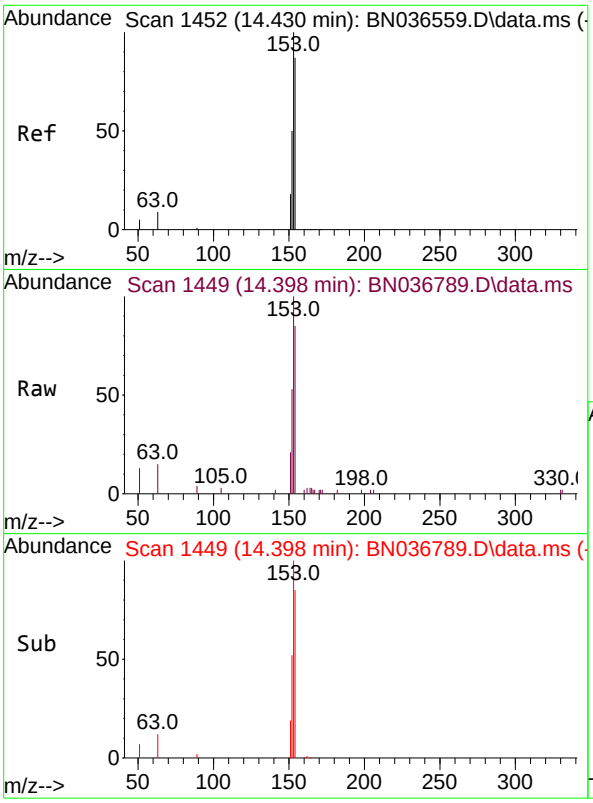


#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:152 Resp: 4217

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.4
153	12.4	10.6	15.8



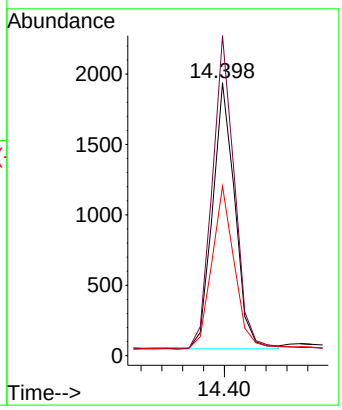


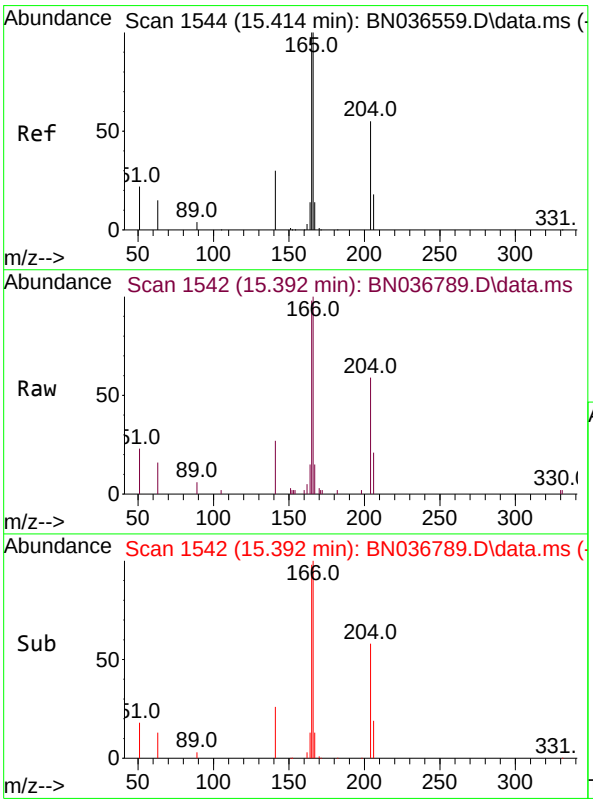
#17
Acenaphthene
Concen: 0.359 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2811

Ion	Ratio	Lower	Upper
154	100		
153	118.9	94.1	141.1
152	62.5	49.8	74.6

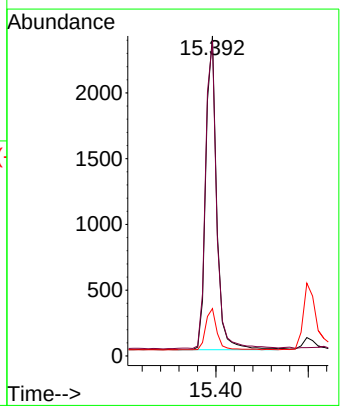


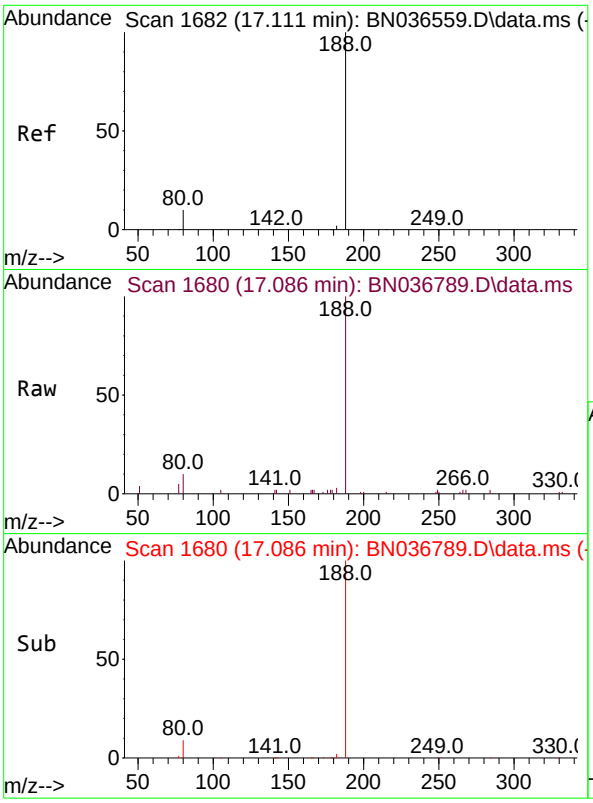


#18
Fluorene
Concen: 0.373 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:166 Resp: 3945

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.8	119.8
167	13.7	10.6	15.8



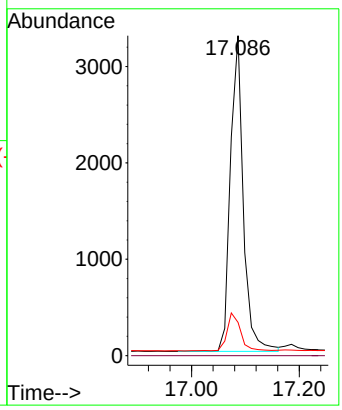


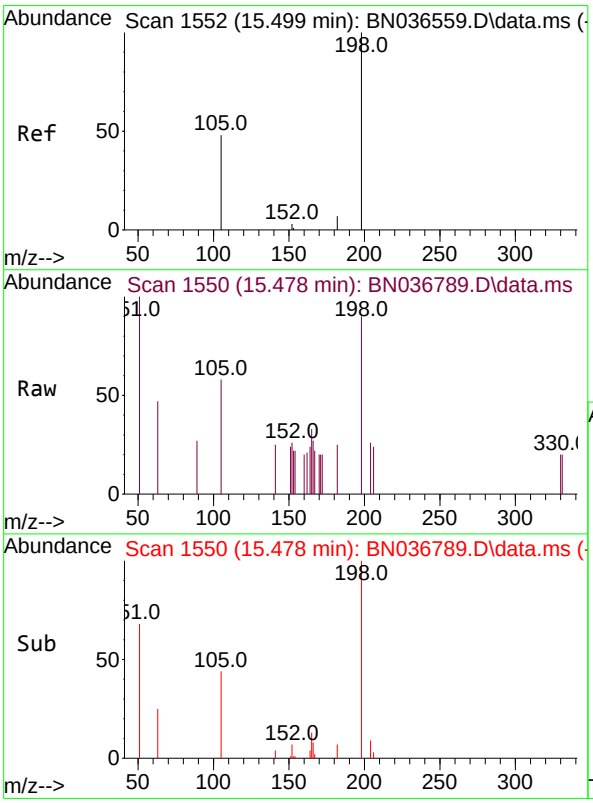
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5432

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.4	8.8	13.2

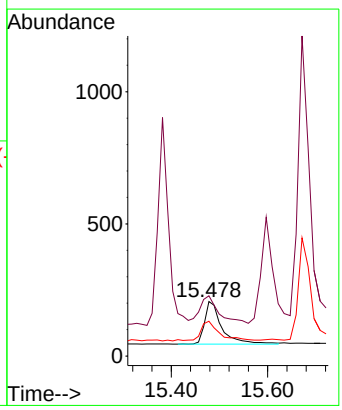


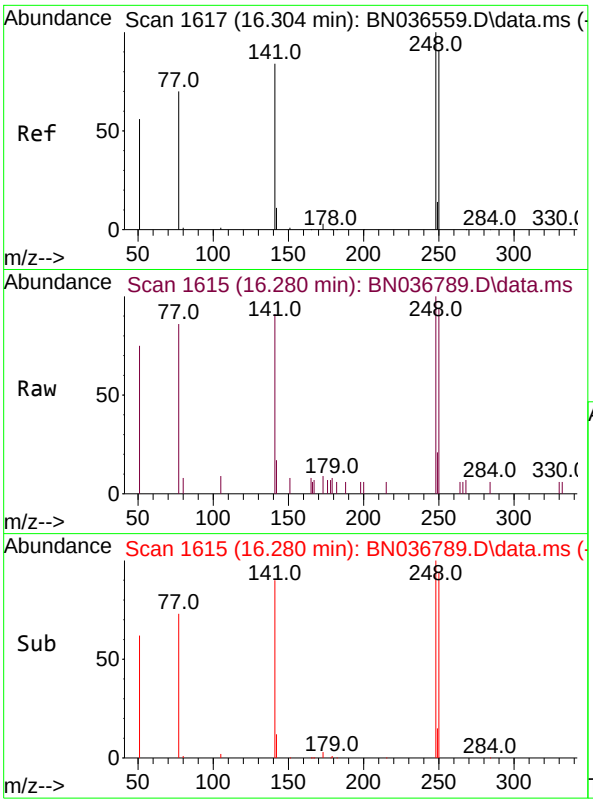


#20
4,6-Dinitro-2-methylphenol
Concen: 0.448 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:198 Resp: 419

Ion	Ratio	Lower	Upper
198	100		
51	110.7	107.9	161.9
105	64.1	56.2	84.2



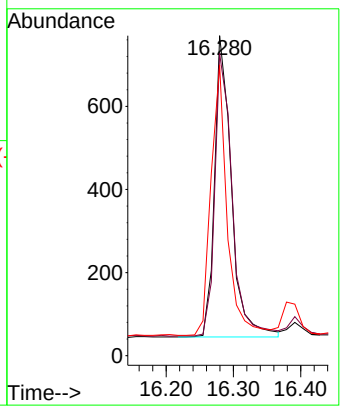


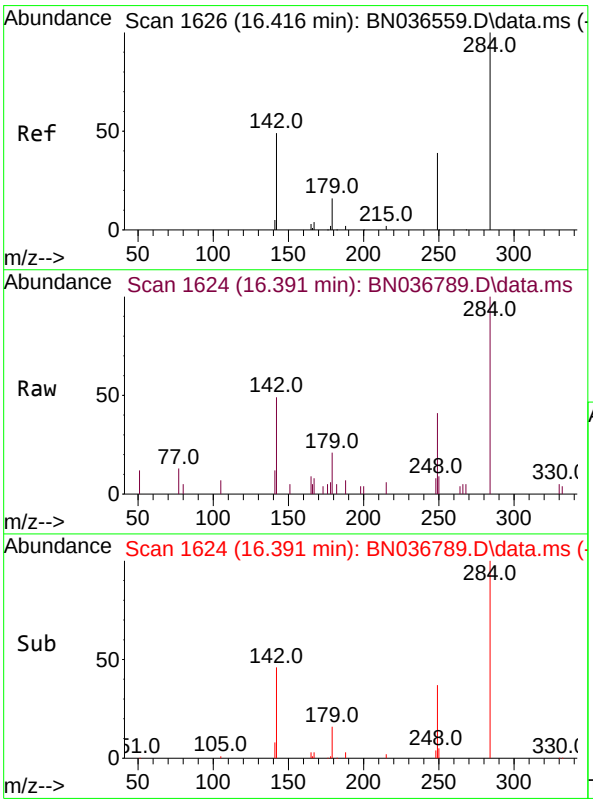
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.280 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1262

Ion	Ratio	Lower	Upper
248	100		
250	94.4	73.0	109.6
141	90.9	68.6	103.0

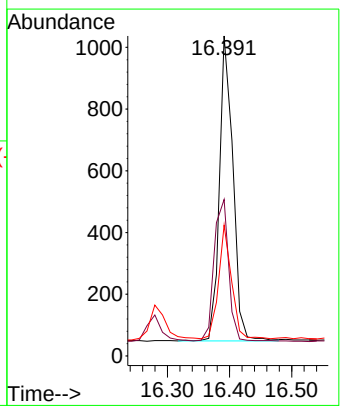


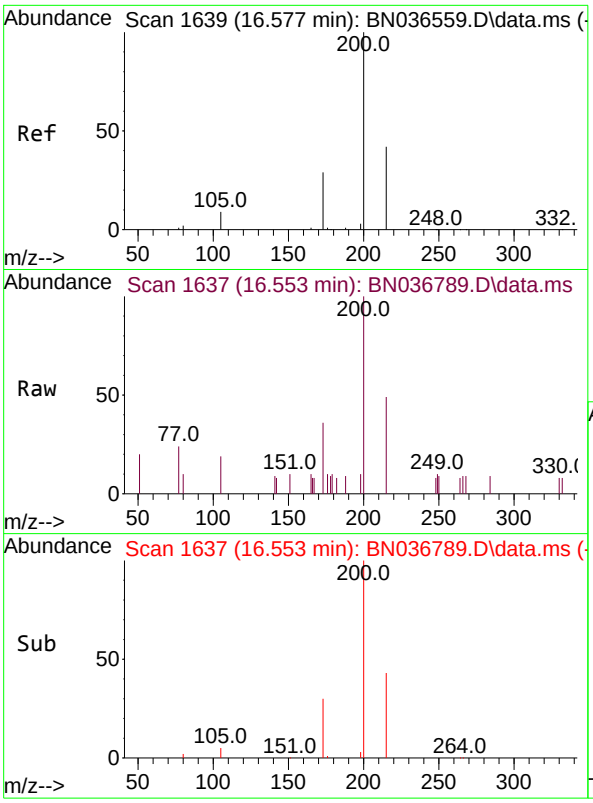


#22
Hexachlorobenzene
Concen: 0.362 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:284 Resp: 1487

Ion	Ratio	Lower	Upper
284	100		
142	51.0	37.0	55.4
249	36.1	28.1	42.1



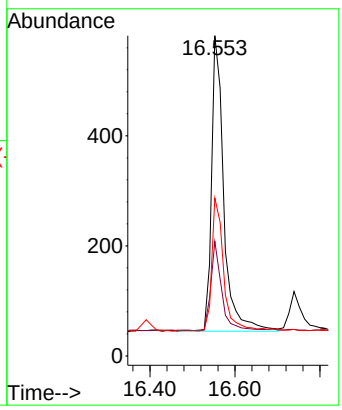


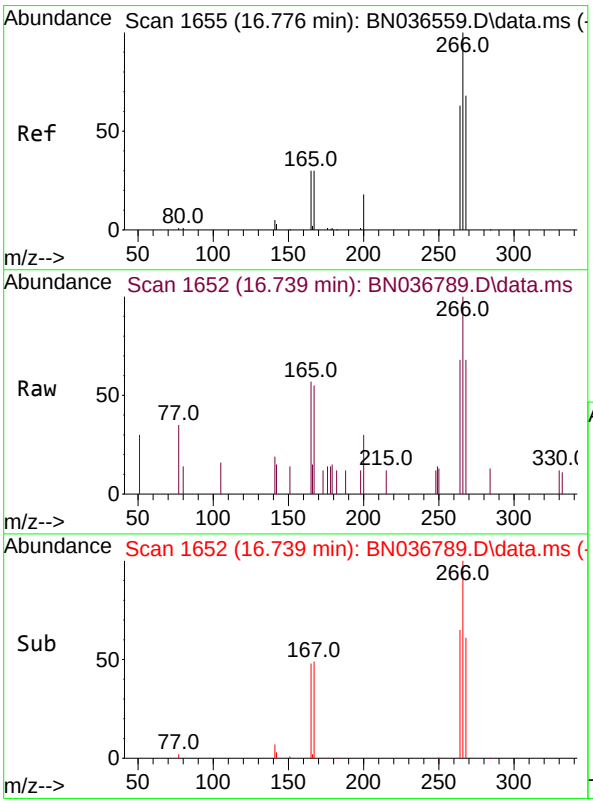
#23
Atrazine
Concen: 0.393 ng
RT: 16.553 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1073

Ion	Ratio	Lower	Upper
200	100		
173	35.7	27.3	40.9
215	49.3	36.8	55.2

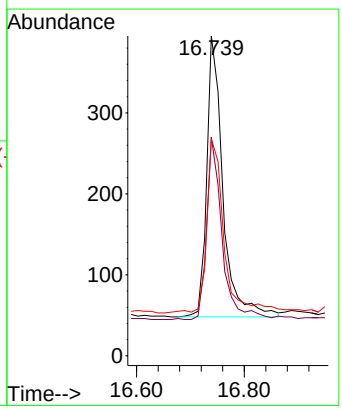


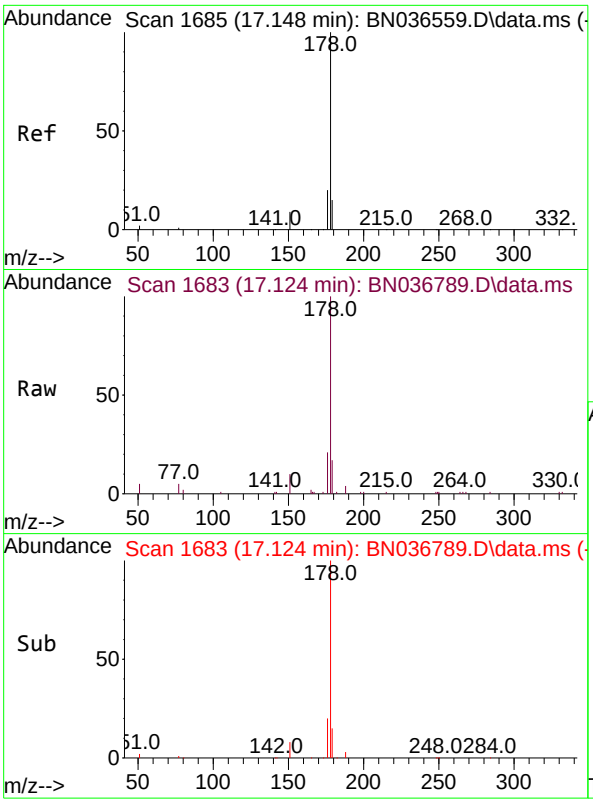


#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:266 Resp: 722

Ion	Ratio	Lower	Upper
266	100		
264	61.6	49.6	74.4
268	66.5	50.9	76.3



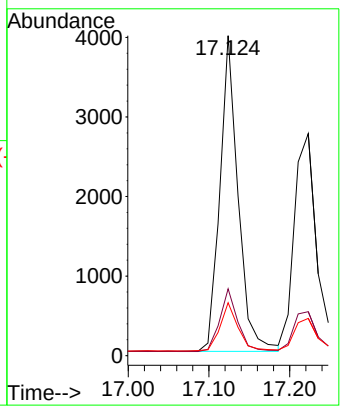


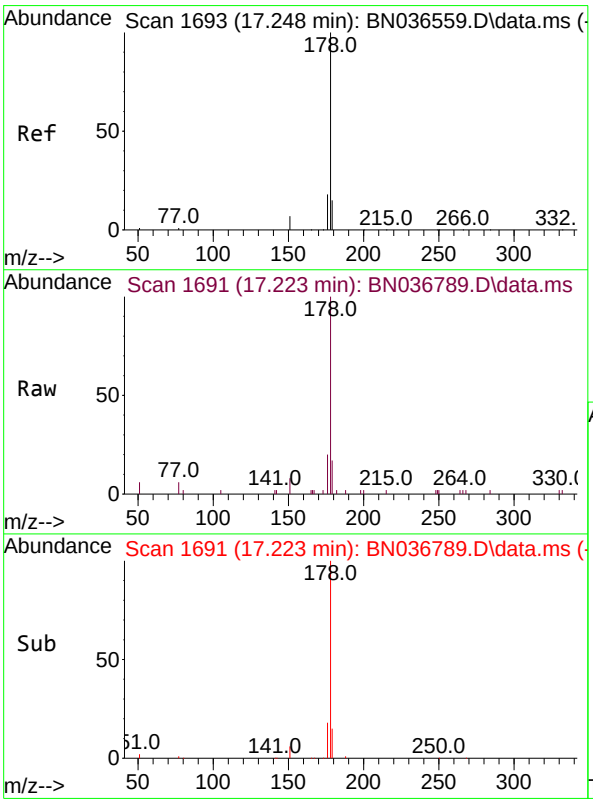
#25
Phenanthrene
Concen: 0.382 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6223

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	15.2	12.2	18.4

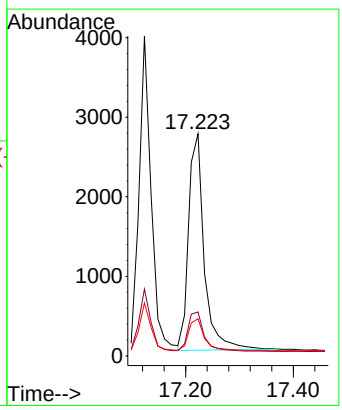


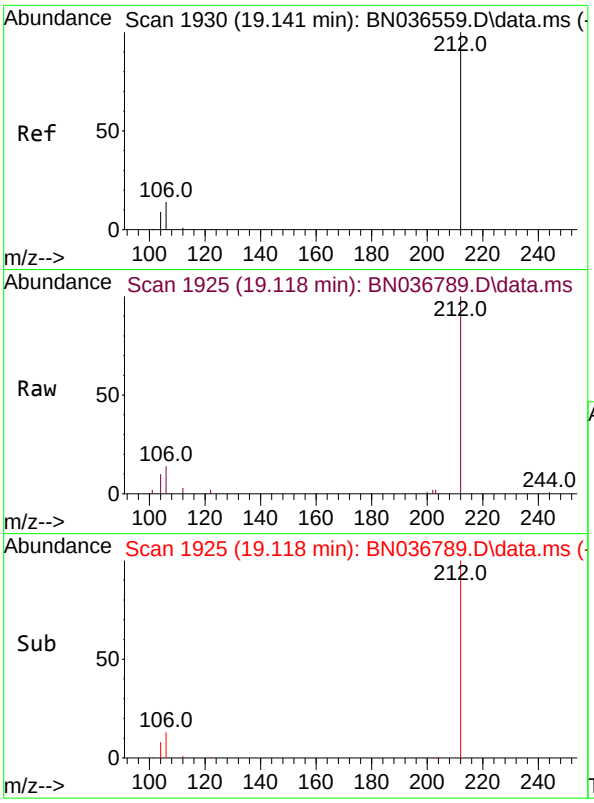


#26
Anthracene
Concen: 0.373 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:178 Resp: 5484

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	18.8



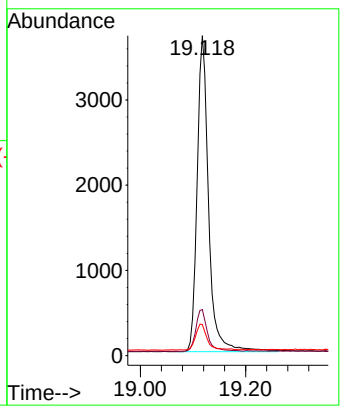


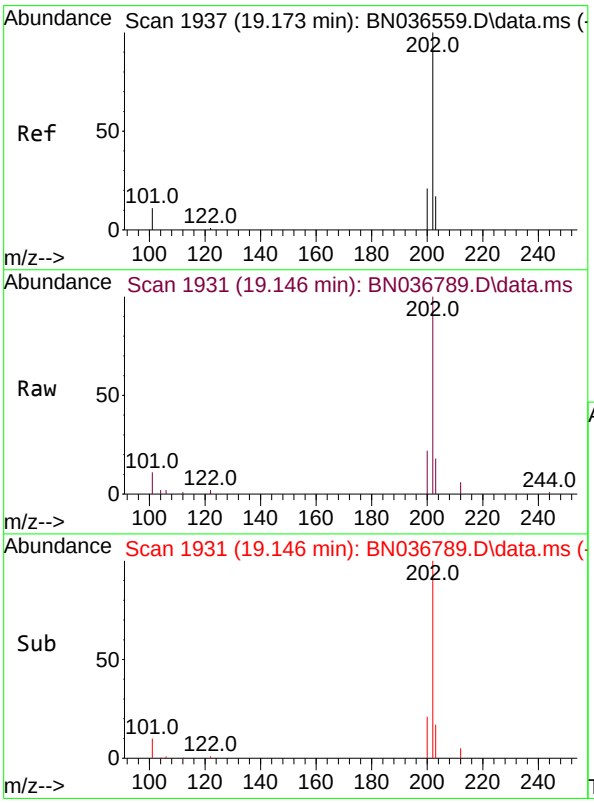
#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.118 min Scan# 1
Delta R.T. -0.023 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 5616

Ion	Ratio	Lower	Upper
212	100		
106	13.3	11.8	17.6
104	7.9	7.3	10.9

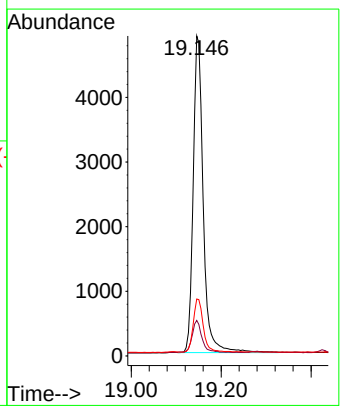


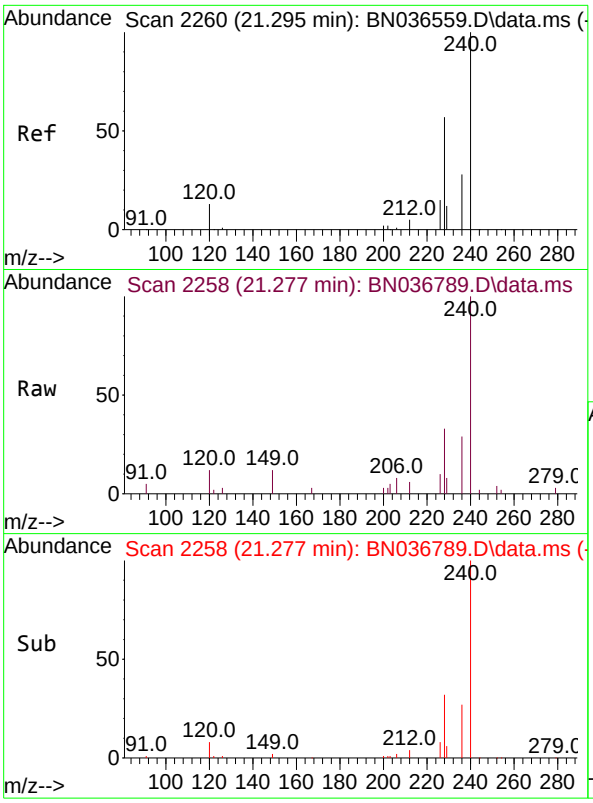


#28
Fluoranthene
Concen: 0.417 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:202 Resp: 7639

Ion	Ratio	Lower	Upper
202	100		
101	9.9	9.4	14.0
203	16.8	13.5	20.3



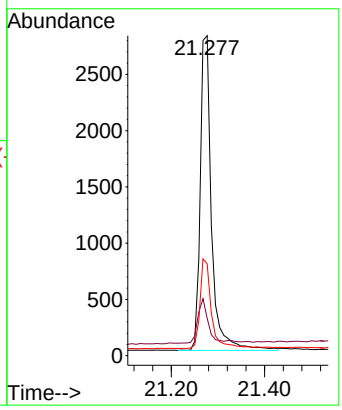


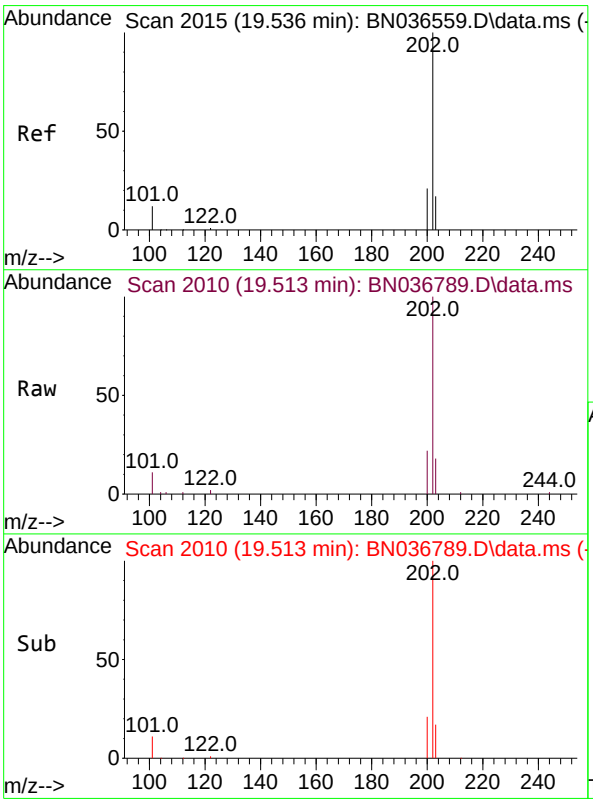
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 4742

Ion	Ratio	Lower	Upper
240	100		
120	11.7	14.6	22.0#
236	28.7	24.1	36.1

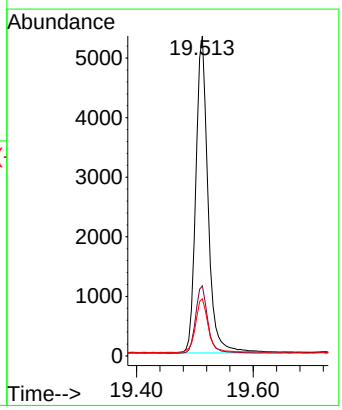


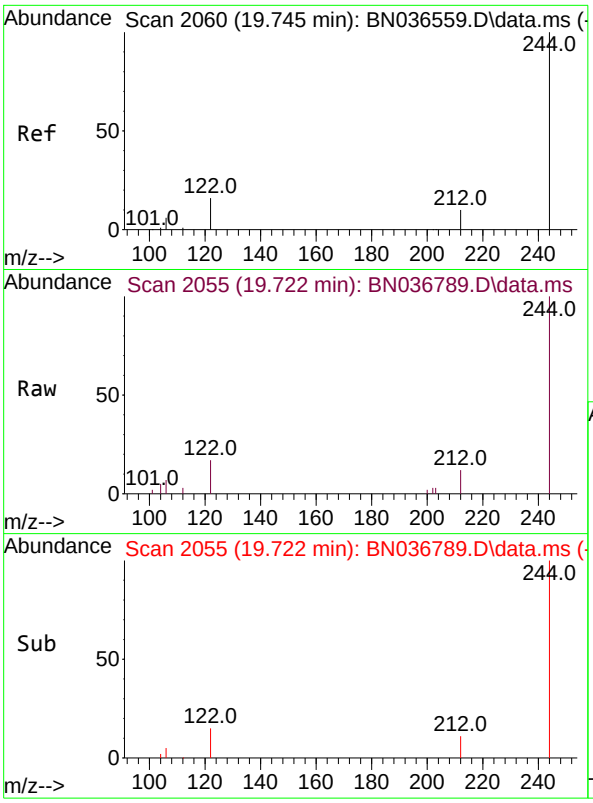


#30
Pyrene
Concen: 0.334 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:202 Resp: 7743

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



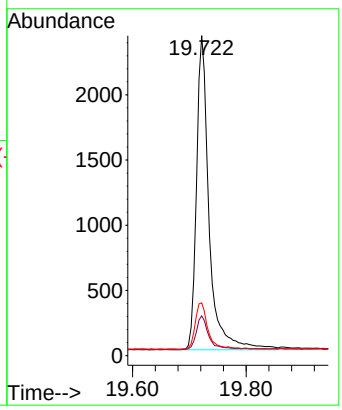


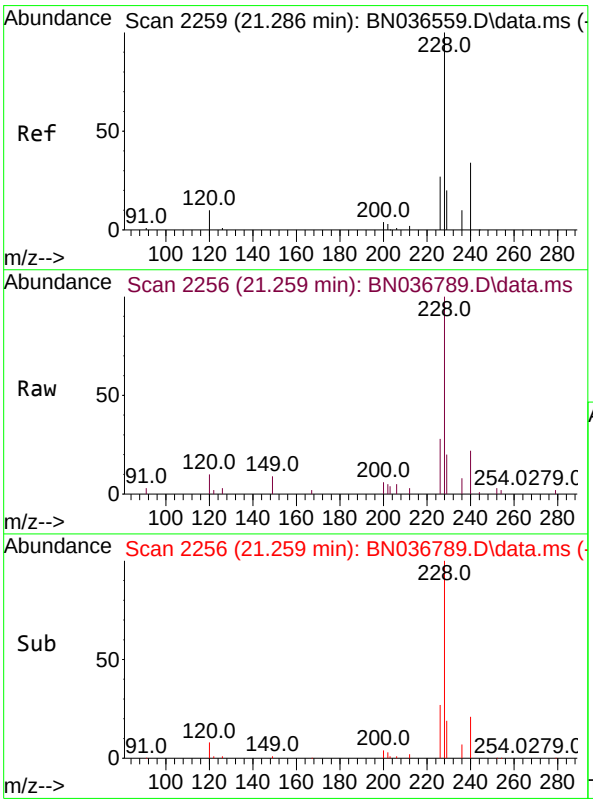
#31
Terphenyl-d14
Concen: 0.326 ng
RT: 19.722 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3703

Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.6	14.4
122	16.5	13.9	20.9

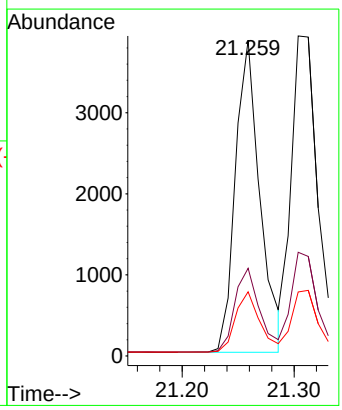


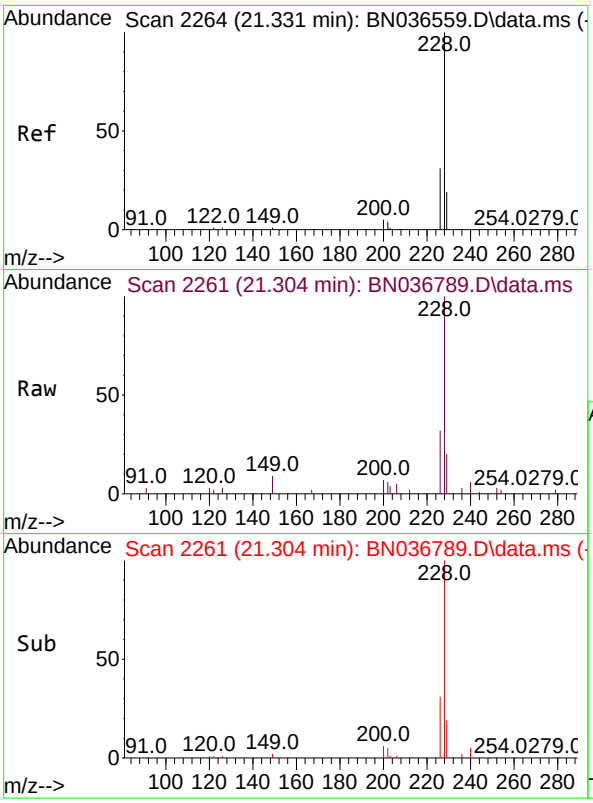


#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:228 Resp: 5885

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.5	33.7
229	20.3	16.6	25.0



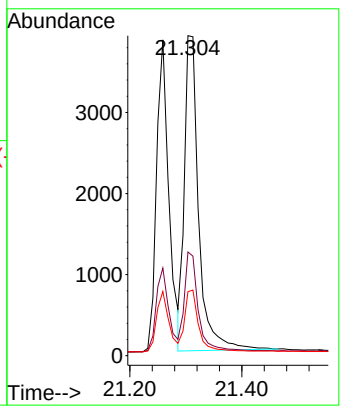


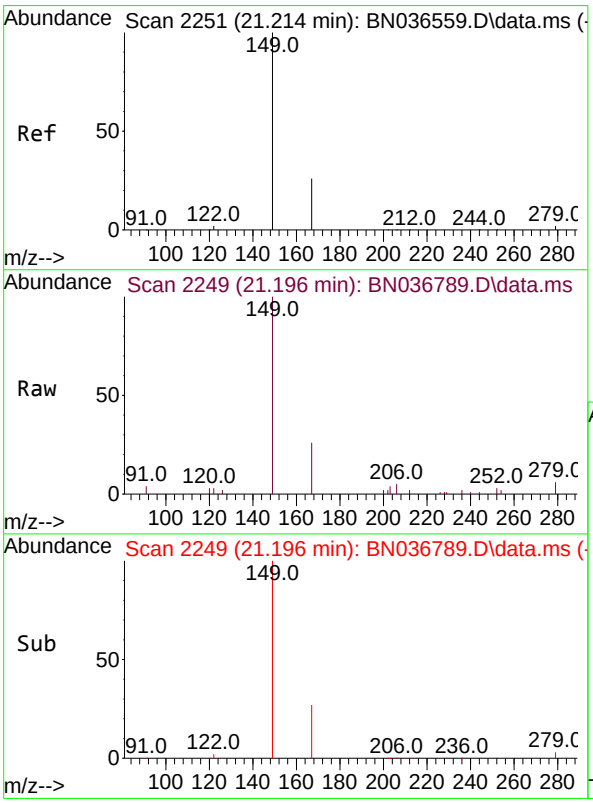
#33
Chrysene
Concen: 0.384 ng
RT: 21.304 min Scan# 2
Delta R.T. -0.027 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 6911

Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.3	37.9
229	20.0	15.8	23.8

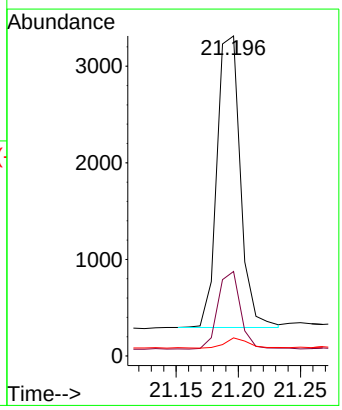


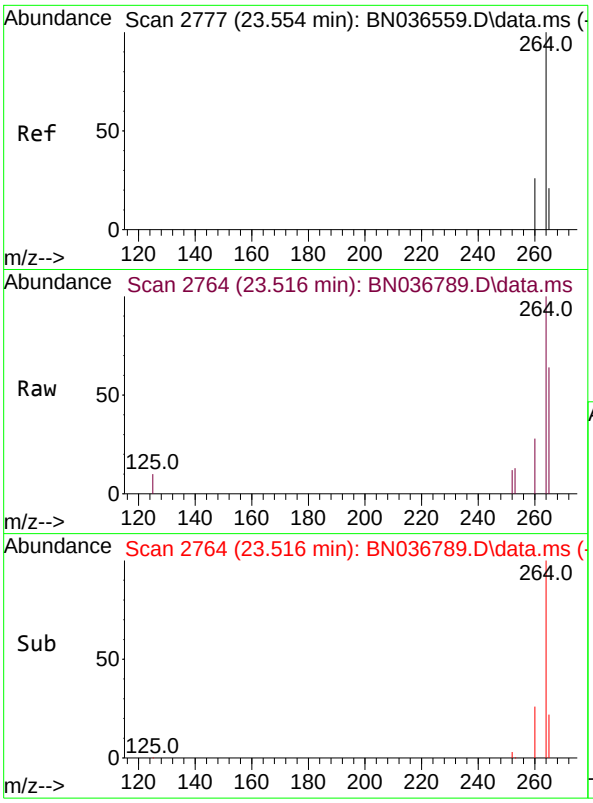


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.336 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:149 Resp: 3944

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	3.5	3.6	5.4#



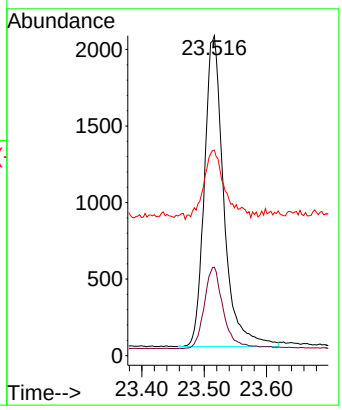


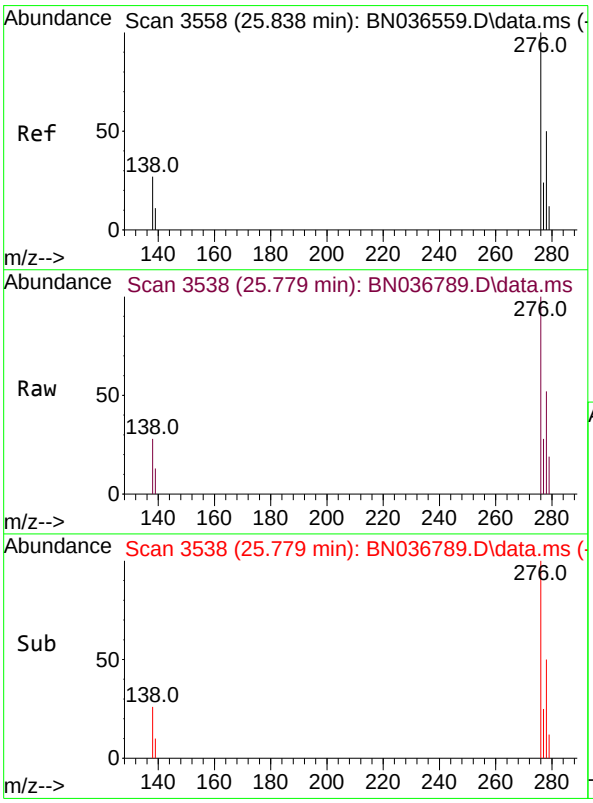
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 4392

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	64.3	88.1	132.1#

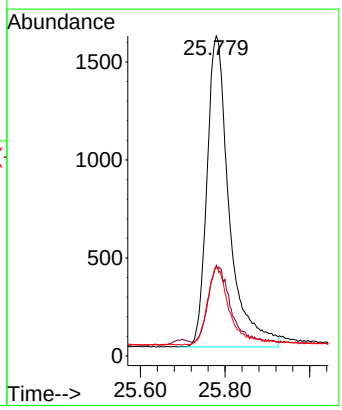


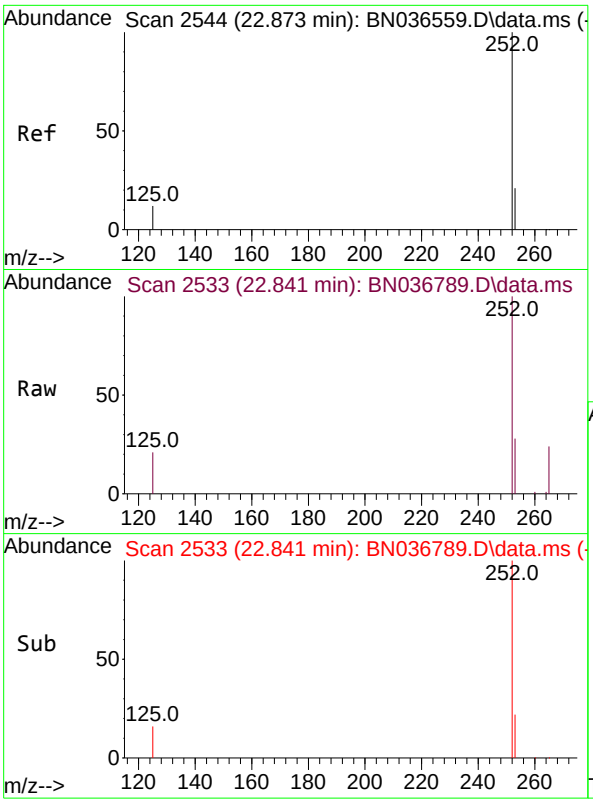


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:276 Resp: 5807

Ion	Ratio	Lower	Upper
276	100		
138	23.6	23.4	35.2
277	24.5	20.0	30.0



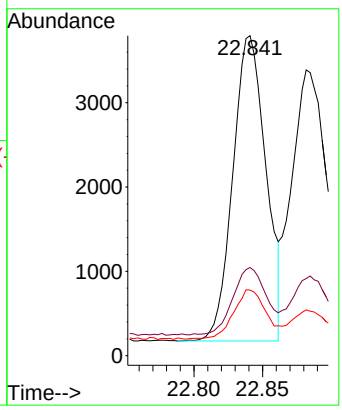


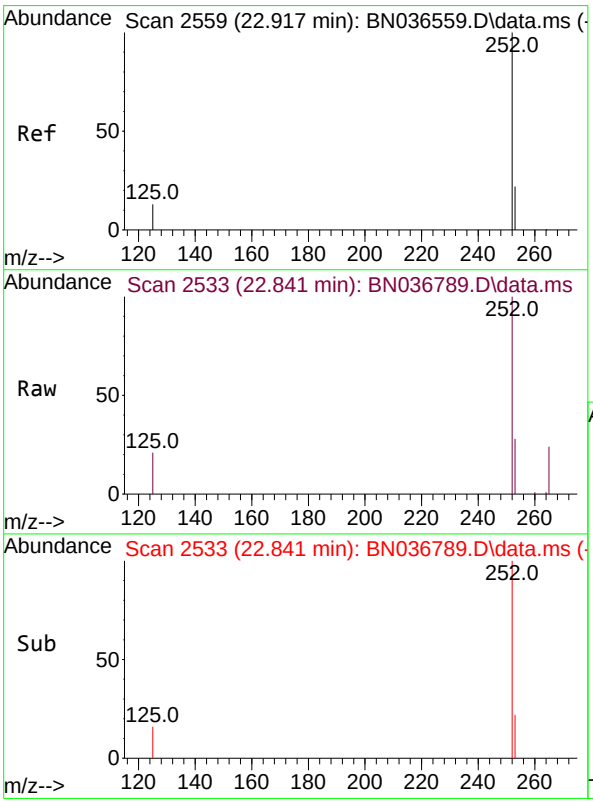
#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.841 min Scan# 2
Delta R.T. -0.032 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6060

Ion	Ratio	Lower	Upper
252	100		
253	27.6	23.9	35.9
125	20.5	17.4	26.2

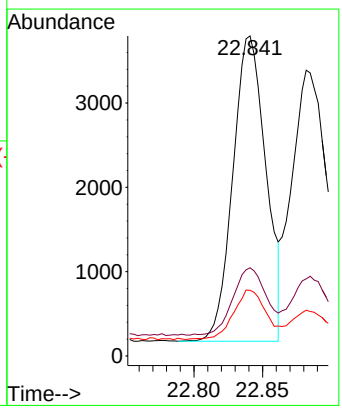


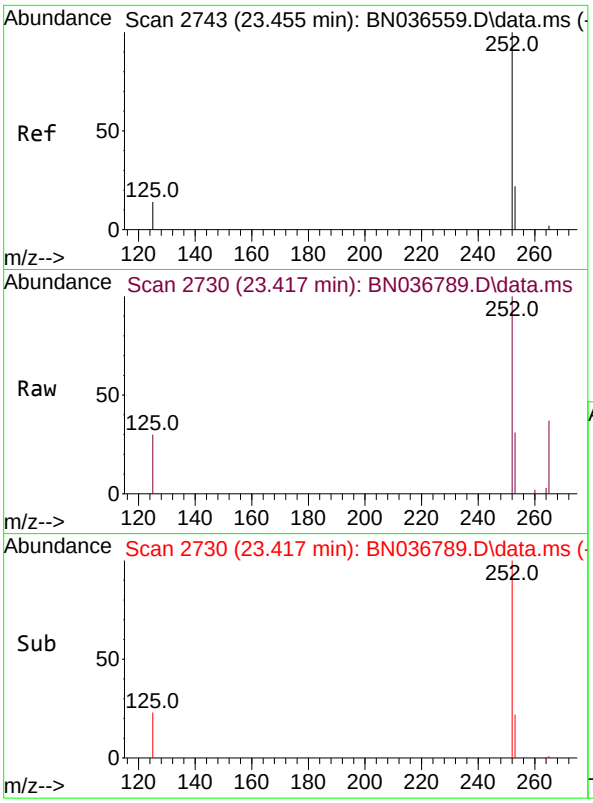


#38
Benzo(k)fluoranthene
Concen: 0.361 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:252 Resp: 6060

Ion	Ratio	Lower	Upper
252	100		
253	27.6	24.6	36.8
125	20.5	17.8	26.8



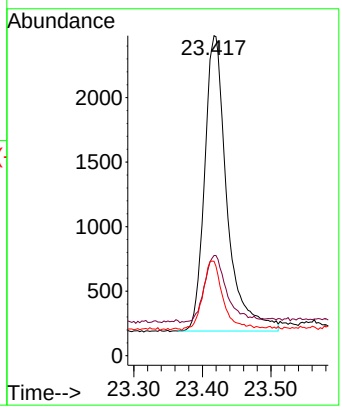


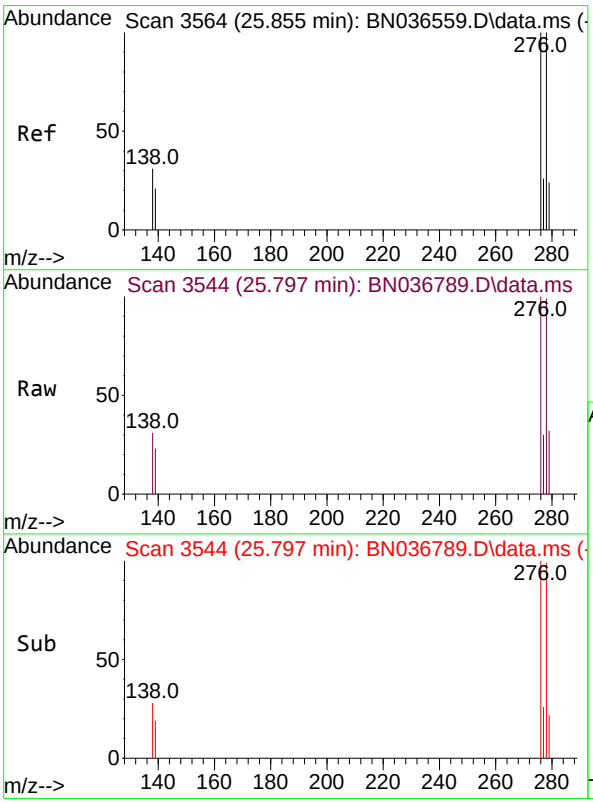
#39
Benzo(a)pyrene
Concen: 0.386 ng
RT: 23.417 min Scan# 2
Delta R.T. -0.038 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5189

Ion	Ratio	Lower	Upper
252	100		
253	31.3	27.8	41.8
125	29.5	22.7	34.1

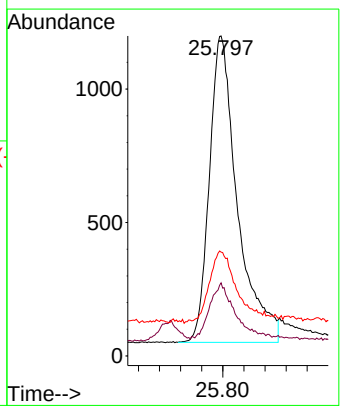


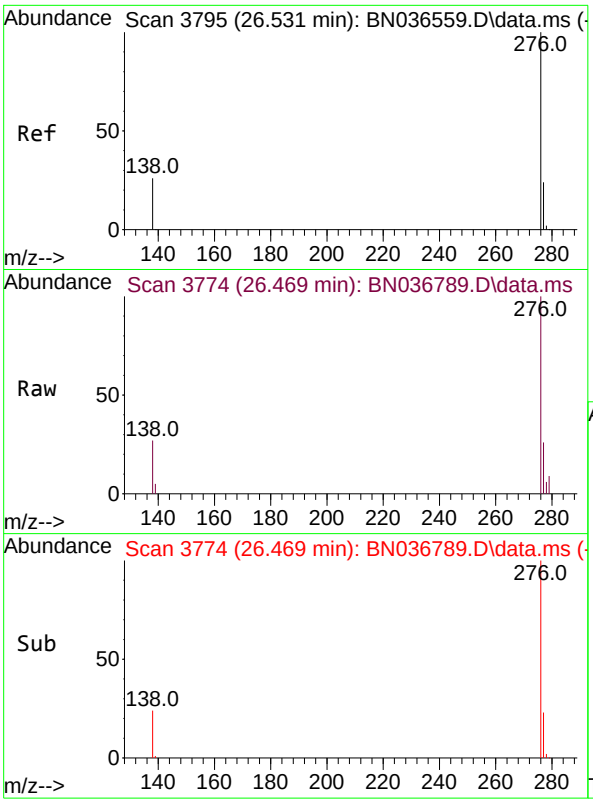


#40
Dibenzo(a,h)anthracene
Concen: 0.344 ng
RT: 25.797 min Scan# 3544
Delta R.T. -0.058 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Tgt Ion:278 Resp: 4244

Ion	Ratio	Lower	Upper
278	100		
139	22.9	20.8	31.2
279	32.4	28.8	43.2





#41
Benzo(g,h,i)perylene
Concen: 0.366 ng
RT: 26.469 min Scan# 3
Delta R.T. -0.061 min
Lab File: BN036789.D
Acq: 29 Mar 2025 00:50

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 5171

Ion	Ratio	Lower	Upper
276	100		
277	26.2	22.2	33.4
138	26.9	24.1	36.1

