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 : Q1582

ATTENTION : Eleanor Vivadou

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1582

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

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
Q1582-01	RE117D1-20250313
Q1582-02	TT180D1-20250313
Q1582-03	TT180D2-20250313
Q1582-04	TT180D-20250313
Q1582-05	FB02-20250313
Q1582-06	RE131D1-20250313
Q1582-07	RE131D2-20250313
Q1582-08	RE131D3-20250313
Q1582-09	TT119S1-20250313
Q1582-10	RE114D1-20250313
Q1582-11	BPOW1-7-20250314
Q1582-12	BPOW1-8-20250314
Q1582-13	TT191D1-20250314
Q1582-14	TT191D2-20250314
Q1582-15	DUP06-20250314
Q1582-16	FB

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 : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 8:22 am, Mar 28, 2025

Date: 3/26/2025

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 # Q1582
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
16 Water samples were received on 03/14/2025.

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 PB167159BSD [2-Fluorobiphenyl - 108%], RE131D1-20250313DL [Terphenyl-d14 - 160%] and RE131D3-20250313 [Terphenyl-d14 - 137%]. These failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

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

Samples TT180D2-20250313, RE131D1-20250313 and RE131D2-20250313 were diluted due to high concentrations.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 8:22 am, Mar 28, 2025

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

CHEMTECH PROJECT NUMBER: Q1582 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 met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for PB167159BSD [2-Fluorobiphenyl - 108%], RE131D1-20250313DL [Terphenyl-d14 - 160%] and RE131D3-20250313 [Terphenyl-d14 - 137%]. Thses failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, 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.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			

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

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

ADDITIONAL COMMENTS:

Samples TT180D2-20250313, RE131D1-20250313 and RE131D2-20250313 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 <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 8:23 am, Mar 28, 2025

Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1582

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: MOHAMMAD AHMED **Date:** 03/26/2025

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LAB CHRONICLE

OrderID:	Q1582	**OrderDate:**	3/14/2025 1:09:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	I42,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1582-01	**RE117D1-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-02	**TT180D1-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-03	**TT180D2-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-03DL	**TT180D2-20250313DL**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-04	**TT180D-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-05	**FB02-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-06	**RE131D1-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-06DL	**RE131D1-20250313DL**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-07	**RE131D2-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-07DL	**RE131D2-20250313DL**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-08	**RE131D3-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	

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LAB CHRONICLE

Q1582-09	**TT119S1-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25	
Q1582-10	**RE114D1-20250313**	**Water**			**03/13/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-11	**BPOW1-7-20250314**	**Water**			**03/14/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-12	**BPOW1-8-20250314**	**Water**			**03/14/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-13	**TT191D1-20250314**	**Water**			**03/14/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-14	**TT191D2-20250314**	**Water**			**03/14/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	
Q1582-15	**DUP06-20250314**	**Water**			**03/14/25**			**03/14/25**
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RE117D1-20250313									
Q1582-01	RE117D1-20250313	WATER	1,4-Dioxane	0.740		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.74**			
			Total Concentration:			**0.74**			
Client ID : TT180D1-20250313									
Q1582-02	TT180D1-20250313	WATER	1,4-Dioxane	3.900		0.07	0.21	0.21	ug/L
			Total Svoc :			**3.90**			
			Total Concentration:			**3.90**			
Client ID : TT180D2-20250313									
Q1582-03	TT180D2-20250313	WATER	1,4-Dioxane	5.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**5.20**			
			Total Concentration:			**5.20**			
Client ID : TT180D2-20250313DL									
Q1582-03DL	TT180D2-20250313DL	WATER	1,4-Dioxane	5.000	D	0.14	0.4	0.4	ug/L
			Total Svoc :			**5.00**			
			Total Concentration:			**5.00**			
Client ID : TT180D-20250313									
Q1582-04	TT180D-20250313	WATER	1,4-Dioxane	0.200		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.20**			
			Total Concentration:			**0.20**			
Client ID : RE131D1-20250313									
Q1582-06	RE131D1-20250313	WATER	1,4-Dioxane	9.000	E	0.07	0.2	0.2	ug/L
			Total Svoc :			**9.00**			
			Total Concentration:			**9.00**			
Client ID : RE131D1-20250313DL									
Q1582-06DL	RE131D1-20250313DL	WATER	1,4-Dioxane	9.700	D	0.35	1	1	ug/L
			Total Svoc :			**9.70**			
			Total Concentration:			**9.70**			
Client ID : RE131D2-20250313									
Q1582-07	RE131D2-20250313	WATER	1,4-Dioxane	10.700	E	0.07	0.21	0.21	ug/L
			Total Svoc :			**10.70**			
			Total Concentration:			**10.70**			
Client ID : RE131D2-20250313DL									
Q1582-07DL	RE131D2-20250313DL	WATER	1,4-Dioxane	11.600	D	0.36	1.1	1.1	ug/L
			Total Svoc :			**11.60**			

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Hit Summary Sheet
SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:			**11.60**			
Client ID :	**RE131D3-20250313**								
Q1582-08	RE131D3-20250313	WATER	1,4-Dioxane	2.500		0.07	0.2	0.2	ug/L
			Total Svoc :			**2.50**			
			Total Concentration:			**2.50**			
Client ID :	**RE114D1-20250313**								
Q1582-10	RE114D1-20250313	WATER	1,4-Dioxane	4.000		0.07	0.2	0.2	ug/L
			Total Svoc :			**4.00**			
			Total Concentration:			**4.00**			
Client ID :	**TT191D1-20250314**								
Q1582-13	TT191D1-20250314	WATER	1,4-Dioxane	2.600		0.07	0.21	0.21	ug/L
			Total Svoc :			**2.60**			
			Total Concentration:			**2.60**			
Client ID :	**TT191D2-20250314**								
Q1582-14	TT191D2-20250314	WATER	1,4-Dioxane	0.570		0.07	0.2	0.2	ug/L
			Total Svoc :			**0.57**			
			Total Concentration:			**0.57**			

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1582

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
PB167159BL	PB167159BL	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
PB167159BS	PB167159BS	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.41	103		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
PB167159BSD	PB167159BSD	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.43	107		58	132
Q1582-01	RE117D1-20250313	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q1582-02	TT180D1-20250313	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q1582-03	TT180D2-20250313	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q1582-03DL	TT180D2-20250313DL	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.24	59		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1582-04	TT180D-20250313	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q1582-05	FB02-20250313	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q1582-06	RE131D1-20250313	2-Methylnaphthalene-d10	0.4	0.26	66		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	78		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q1582-06DL	RE131D1-20250313DL	2-Methylnaphthalene-d10	0.4	0.30	74		30	150

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Surrogate Summary

SW-846

SDG No.: Q1582

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
Q1582-06DL	RE131D1-20250313DL	Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.28	69		53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
Q1582-07	RE131D2-20250313	2-Methylnaphthalene-d10	0.4	0.25	62		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q1582-07DL	RE131D2-20250313DL	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.47	116		58	132
Q1582-08	RE131D3-20250313	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.46	116		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
Q1582-09	TT119S1-20250313	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1582-10	RE114D1-20250313	2-Methylnaphthalene-d10	0.4	0.24	61		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q1582-11	BPOW1-7-20250314	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
		2-Fluorobiphenyl	0.4	0.29	74		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q1582-12	BPOW1-8-20250314	2-Methylnaphthalene-d10	0.4	0.31	76		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	81		53	106
		Terphenyl-d14	0.4	0.50	124		58	132
Q1582-13	TT191D1-20250314	2-Methylnaphthalene-d10	0.4	0.25	63		30	150
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.29	74		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
Q1582-14	TT191D2-20250314	2-Methylnaphthalene-d10	0.4	0.24	60		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
Q1582-15	DUP06-20250314	2-Methylnaphthalene-d10	0.4	0.24	60		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150

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Surrogate Summary

SW-846

SDG No.: Q1582

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
Q1582-15	DUP06-20250314	Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.49	122		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036665.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167159BS	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.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036680.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167159BSD	1,4-Dioxane	0.4	0.38	ug/L	95	3			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167159BL

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

Lab File ID: BN036684.D Lab Sample ID: PB167159BL

Instrument ID: BNA_N Date Extracted: 03/17/2025

Matrix: (soil/water) Water Date Analyzed: 03/18/2025

Level: (low/med) LOW Time Analyzed: 09:57

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167159BS	PB167159BS	BN036665.D	03/17/2025
PB167159BSD	PB167159BSD	BN036680.D	03/18/2025
RE117D1-20250313	Q1582-01	BN036659.D	03/17/2025
TT180D1-20250313	Q1582-02	BN036660.D	03/17/2025
TT180D2-20250313	Q1582-03	BN036661.D	03/17/2025
TT180D-20250313	Q1582-04	BN036662.D	03/17/2025
FB02-20250313	Q1582-05	BN036663.D	03/17/2025
RE131D1-20250313	Q1582-06	BN036664.D	03/17/2025
RE131D2-20250313	Q1582-07	BN036670.D	03/17/2025
RE131D3-20250313	Q1582-08	BN036671.D	03/17/2025
TT119S1-20250313	Q1582-09	BN036672.D	03/17/2025
RE114D1-20250313	Q1582-10	BN036673.D	03/18/2025
BPOW1-7-20250314	Q1582-11	BN036674.D	03/18/2025
BPOW1-8-20250314	Q1582-12	BN036675.D	03/18/2025
TT191D1-20250314	Q1582-13	BN036676.D	03/18/2025
TT191D2-20250314	Q1582-14	BN036677.D	03/18/2025
DUP06-20250314	Q1582-15	BN036678.D	03/18/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1582 SDG NO.: Q1582

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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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1582 SDG NO.: Q1582

Lab File ID: BN036650.D DFTPP Injection Date: 03/17/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.6
68	Less than 2.0% of mass 69	0.9 (1.5) 1
69	Mass 69 relative abundance	60.1
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	55
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	7.2
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (21.3) 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	BN036651.D	03/17/2025	09:49
RE117D1-20250313	Q1582-01	BN036659.D	03/17/2025	14:55
TT180D1-20250313	Q1582-02	BN036660.D	03/17/2025	15:31
TT180D2-20250313	Q1582-03	BN036661.D	03/17/2025	16:07
TT180D-20250313	Q1582-04	BN036662.D	03/17/2025	16:43
FB02-20250313	Q1582-05	BN036663.D	03/17/2025	17:19
RE131D1-20250313	Q1582-06	BN036664.D	03/17/2025	17:55
PB167159BS	PB167159BS	BN036665.D	03/17/2025	18:31
SSTDCCC0.4EC	SSTDCCC0.4	BN036666.D	03/17/2025	19:08

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1582 SDG NO.: Q1582

Lab File ID: BN036667.D DFTPP Injection Date: 03/17/2025

Instrument ID: BNA_N DFTPP Injection Time: 20:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	76.1
68	Less than 2.0% of mass 69	0.4 (0.7) 1
69	Mass 69 relative abundance	62.3
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	10.0 - 80.0% of mass 198	55.2
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1% of mass 198	4.1
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	10.5 (20.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036668.D	03/17/2025	21:02
RE131D2-20250313	Q1582-07	BN036670.D	03/17/2025	22:15
RE131D3-20250313	Q1582-08	BN036671.D	03/17/2025	22:51
TT119S1-20250313	Q1582-09	BN036672.D	03/17/2025	23:27
RE114D1-20250313	Q1582-10	BN036673.D	03/18/2025	00:03
BPOW1-7-20250314	Q1582-11	BN036674.D	03/18/2025	00:39
BPOW1-8-20250314	Q1582-12	BN036675.D	03/18/2025	01:15
TT191D1-20250314	Q1582-13	BN036676.D	03/18/2025	01:51
TT191D2-20250314	Q1582-14	BN036677.D	03/18/2025	02:28
DUP06-20250314	Q1582-15	BN036678.D	03/18/2025	03:04
TT180D2-20250313DL	Q1582-03DL	BN036679.D	03/18/2025	03:40
PB167159BSD	PB167159BSD	BN036680.D	03/18/2025	04:16
SSTDCCC0.4EC	SSTDCCC0.4	BN036681.D	03/18/2025	04:52

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM SAS No.: Q1582 SDG NO.: Q1582

Lab File ID: BN036682.D DFTPP Injection Date: 03/18/2025

Instrument ID: BNA_N DFTPP Injection Time: 08:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.3
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	53.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	9.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (18.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036683.D	03/18/2025	09:21
PB167159BL	PB167159BL	BN036684.D	03/18/2025	09:57
RE131D1-20250313DL	Q1582-06DL	BN036685.D	03/18/2025	10:34
RE131D2-20250313DL	Q1582-07DL	BN036686.D	03/18/2025	11:10
SSTDCCC0.4EC	SSTDCCC0.4	BN036687.D	03/18/2025	12:35

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036651.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	2063	7.717	5025	10.50	2968	14.36
	UPPER LIMIT	4126	8.217	10050	10.998	5936	14.856
	LOWER LIMIT	1031.5	7.217	2512.5	9.998	1484	13.856
	EPA SAMPLE NO.						
01	RE117D1-20250313	1599	7.72	3736	10.50	2090	14.36
02	TT180D1-20250313	1526	7.72	3719	10.51	2286	14.36
03	TT180D2-20250313	1480	7.72	3511	10.51	2177	14.36
04	TT180D-20250313	1471	7.72	3486	10.51	1974	14.36
05	FB02-20250313	1550	7.72	3768	10.51	2232	14.36
06	RE131D1-20250313	1388	7.72	3220	10.51	1815	14.36
07	PB167159BS	1650	7.72	3863	10.50	1951	14.36

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036651.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	5703	17.09	3893	21.29	3363	23.546
	UPPER LIMIT	11406	17.59	7786	21.79	6726	24.046
	LOWER LIMIT	2851.5	16.59	1946.5	20.79	1681.5	23.046
	EPA SAMPLE NO.						
01	RE117D1-20250313	3762	17.10	2674	21.30	2457	23.55
02	TT180D1-20250313	4473	17.10	2911	21.30	2391	23.55
03	TT180D2-20250313	4400	17.10	2930	21.30	2432	23.55
04	TT180D-20250313	3397	17.10	2382	21.30	2179	23.55
05	FB02-20250313	4299	17.10	2706	21.30	2307	23.55
06	RE131D1-20250313	3277	17.10	2281	21.30	2088	23.55
07	PB167159BS	3290	17.10	1972	21.30	1878	23.55

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036668.D Time Analyzed: 21:02

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1326	7.717	3375	10.50	1969	14.36
	UPPER LIMIT	2652	8.217	6750	10.998	3938	14.856
	LOWER LIMIT	663	7.217	1687.5	9.998	984.5	13.856
	EPA SAMPLE NO.						
01	TT119S1-20250313	1721	7.72	4150	10.50	2557	14.36
02	RE114D1-20250313	1655	7.72	4102	10.50	2453	14.36
03	TT180D2-20250313DL	1626	7.72	3810	10.51	2398	14.36
04	BPOW1-7-20250314	1843	7.72	4422	10.50	2743	14.36
05	BPOW1-8-20250314	1645	7.72	4058	10.50	2499	14.36
06	TT191D1-20250314	1725	7.72	4299	10.50	2552	14.36
07	TT191D2-20250314	1797	7.72	4496	10.50	2727	14.36
08	DUP06-20250314	1973	7.72	4653	10.51	2790	14.36
09	PB167159BSD	1799	7.72	4271	10.50	2251	14.36
10	RE131D2-20250313	1739	7.72	4240	10.50	2511	14.36
11	RE131D3-20250313	1476	7.72	3714	10.50	2273	14.36

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036668.D Time Analyzed: 21:02

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	3924	17.09	2929	21.29	2659	23.543
	UPPER LIMIT	7848	17.59	5858	21.79	5318	24.043
	LOWER LIMIT	1962	16.59	1464.5	20.79	1329.5	23.043
	EPA SAMPLE NO.						
01	TT119S1-20250313	5105	17.10	3477	21.30	2786	23.55
02	RE114D1-20250313	5059	17.10	3831	21.30	3185	23.55
03	TT180D2-20250313DL	4730	17.10	3082	21.30	2493	23.55
04	BPOW1-7-20250314	5303	17.10	3399	21.30	2777	23.54
05	BPOW1-8-20250314	4951	17.10	3334	21.30	2721	23.55
06	TT191D1-20250314	5075	17.10	3524	21.30	2792	23.55
07	TT191D2-20250314	5582	17.10	3987	21.29	3141	23.54
08	DUP06-20250314	5581	17.10	3549	21.30	2795	23.55
09	PB167159BSD	4157	17.10	2623	21.30	2261	23.54
10	RE131D2-20250313	4784	17.10	3199	21.30	2740	23.54
11	RE131D3-20250313	4572	17.10	3100	21.30	2528	23.55

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/18/2025

Lab File ID: BN036683.D Time Analyzed: 09:21

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	1819	7.71	4524	10.50	2641	14.36
	UPPER LIMIT	3638	8.21	9048	10.998	5282	14.855
	LOWER LIMIT	909.5	7.21	2262	9.998	1320.5	13.855
	EPA SAMPLE NO.						
01	PB167159BL	1698	7.72	3698	10.52	2056	14.37
02	RE131D1-20250313DL	1658	7.72	3783	10.51	2382	14.36
03	RE131D2-20250313DL	2029	7.71	4853	10.50	3032	14.36

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/18/2025

Lab File ID: BN036683.D Time Analyzed: 09:21

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	5270	17.09	3871	21.28	3319	23.537
	UPPER LIMIT	10540	17.59	7742	21.78	6638	24.037
	LOWER LIMIT	2635	16.59	1935.5	20.78	1659.5	23.037
	EPA SAMPLE NO.						
01	PB167159BL	3776	17.12	2642	21.30	2442	23.55
02	RE131D1-20250313DL	4560	17.10	3005	21.30	2748	23.54
03	RE131D2-20250313DL	6208	17.10	4364	21.29	3806	23.54

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE117D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-01	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
BN036659.D	1	03/17/25 08:48	03/17/25 14:55	PB167159

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	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	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	1600	7.717				
1146-65-2	Naphthalene-d8	3740	10.498				
15067-26-2	Acenaphthene-d10	2090	14.355				
1517-22-2	Phenanthrene-d10	3760	17.099				
1719-03-5	Chrysene-d12	2670	21.295				
1520-96-3	Perylene-d12	2460	23.546				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036659.D
Acq On : 17 Mar 2025 14:55
Operator : RC/JU
Sample : Q1582-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Quant Time: Mar 17 15:36:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

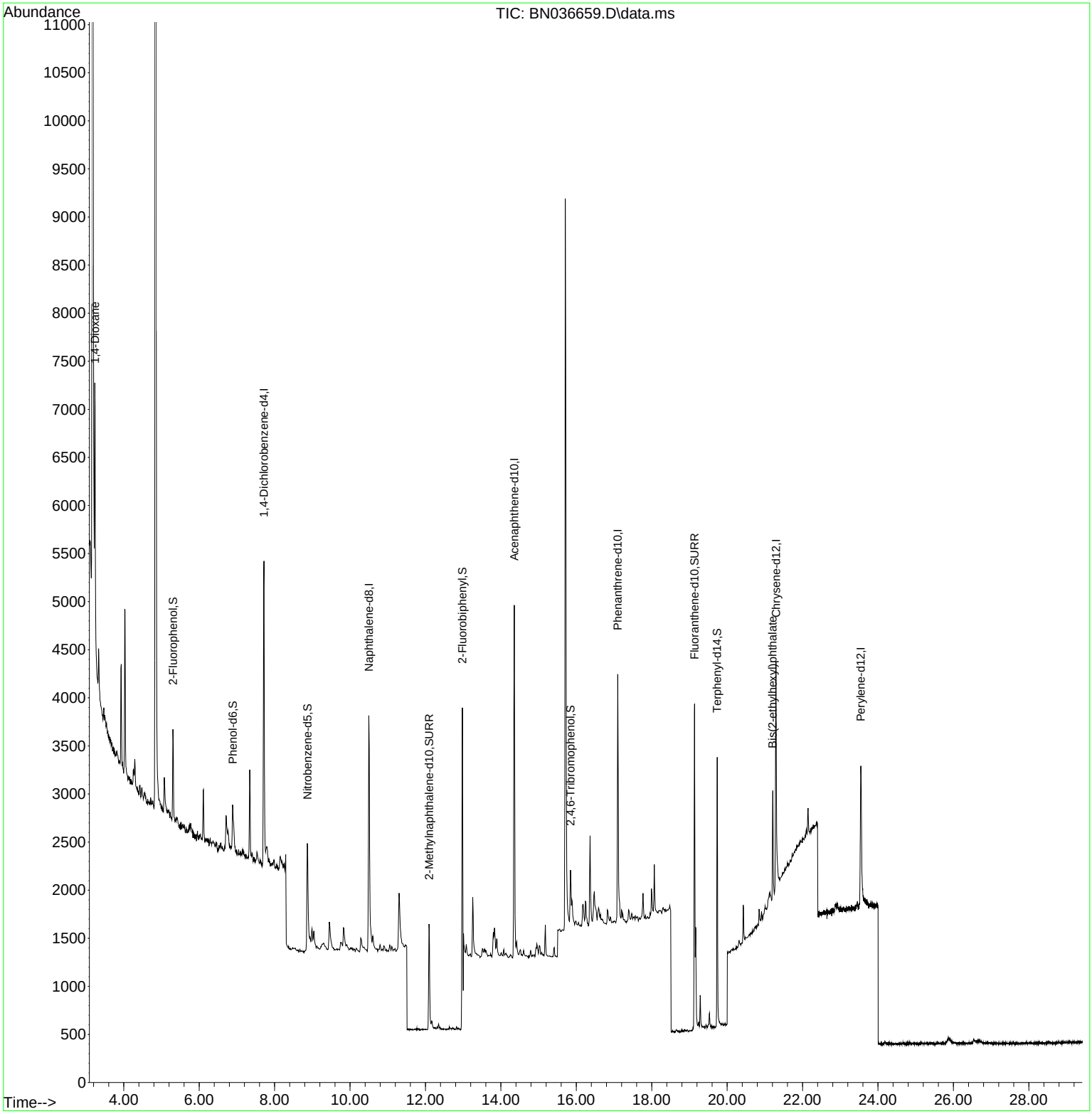
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1599	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3736	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2090	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3762	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2674	0.400	ng	0.00
35) Perylene-d12	23.546	264	2457	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	675	0.181	ng	0.00
5) Phenol-d6	6.894	99	433	0.094	ng	0.00
8) Nitrobenzene-d5	8.875	82	1331	0.327	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1829	0.329	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	346	0.365	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4575	0.376	ng	-0.01
27) Fluoranthene-d10	19.136	212	4103	0.426	ng	0.00
31) Terphenyl-d14	19.736	244	2883	0.450	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	1315	0.741	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.205	149	1334	0.201	ng	96

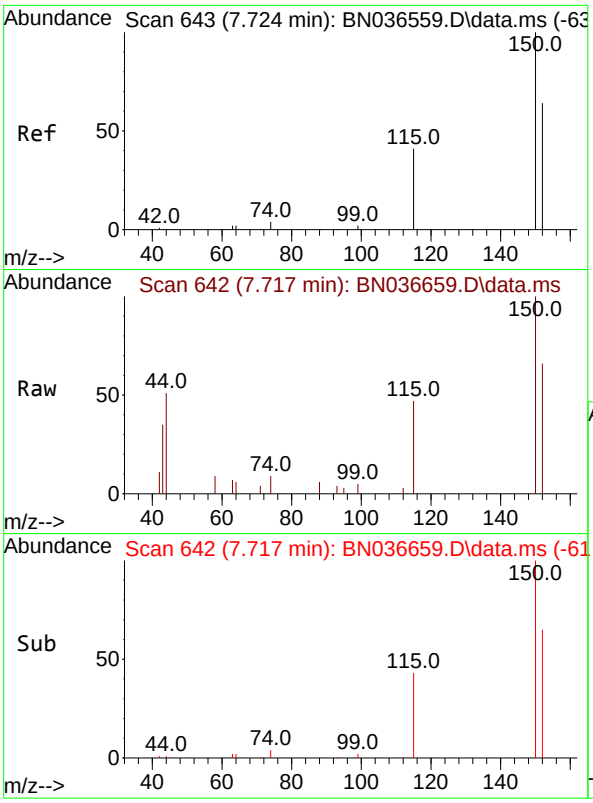
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036659.D
Acq On : 17 Mar 2025 14:55
Operator : RC/JU
Sample : Q1582-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Quant Time: Mar 17 15:36:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



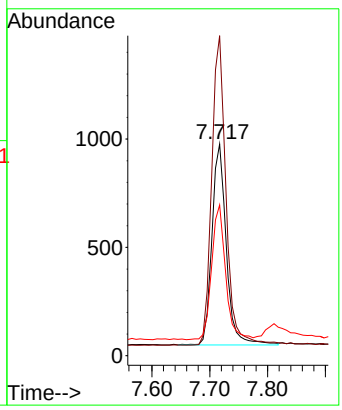


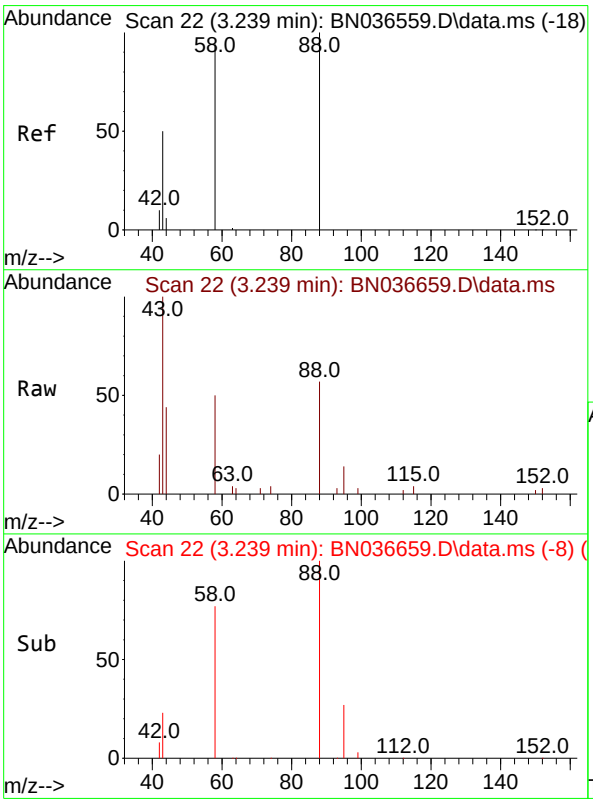
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:152 Resp: 1599

Ion	Ratio	Lower	Upper
152	100		
150	151.2	123.7	185.5
115	71.2	54.3	81.5

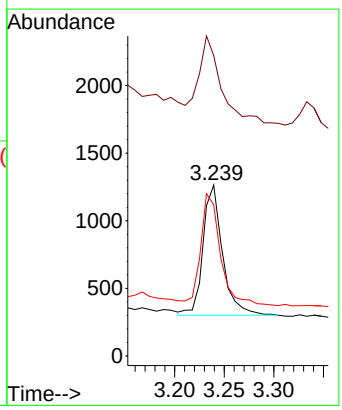


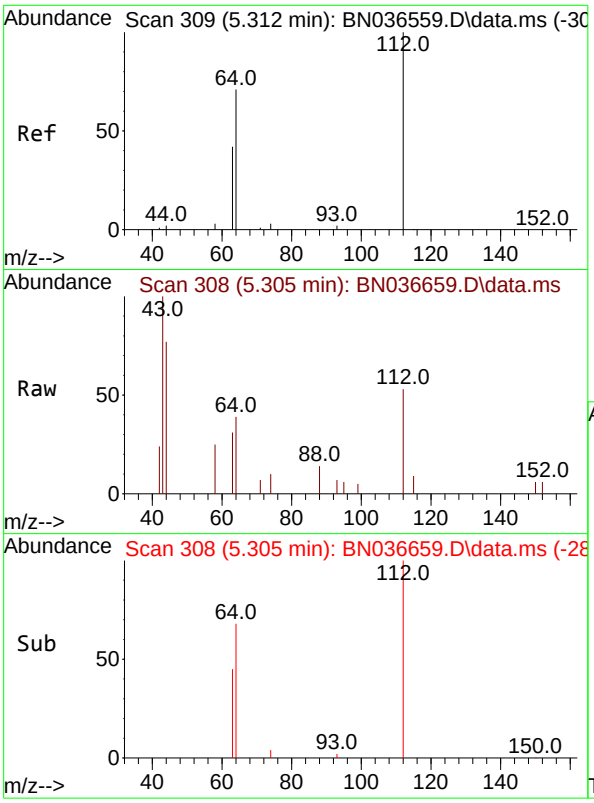


#2
1,4-Dioxane
Concen: 0.741 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion: 88 Resp: 1315

Ion	Ratio	Lower	Upper
88	100		
43	77.6	37.8	56.8#
58	86.7	67.4	101.2



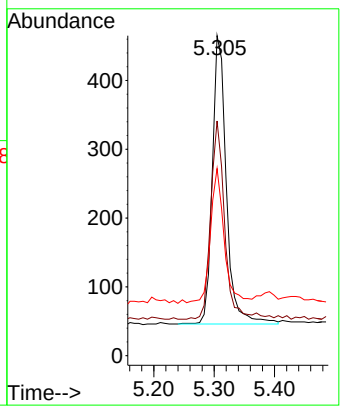


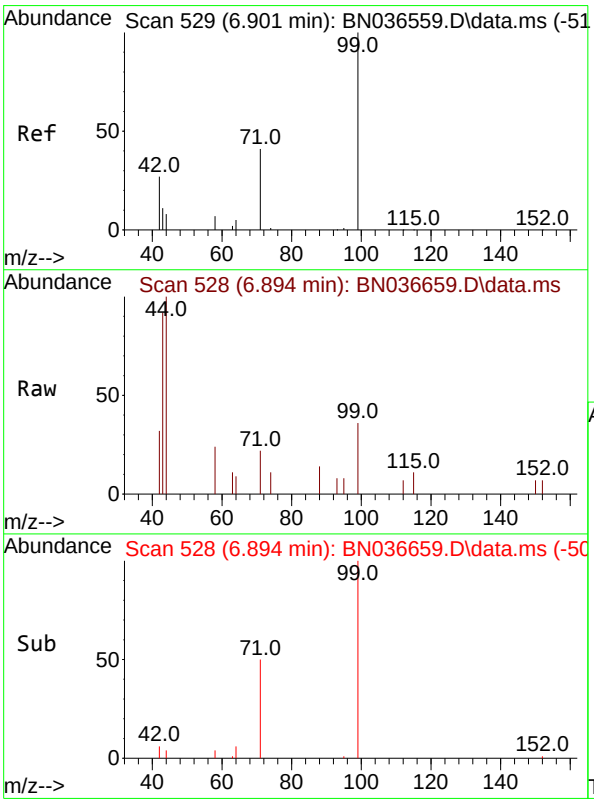
#4
2-Fluorophenol
Concen: 0.181 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:112 Resp: 675

Ion	Ratio	Lower	Upper
112	100		
64	68.9	53.1	79.7
63	45.2	31.8	47.8

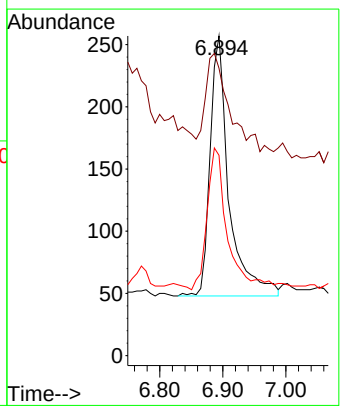


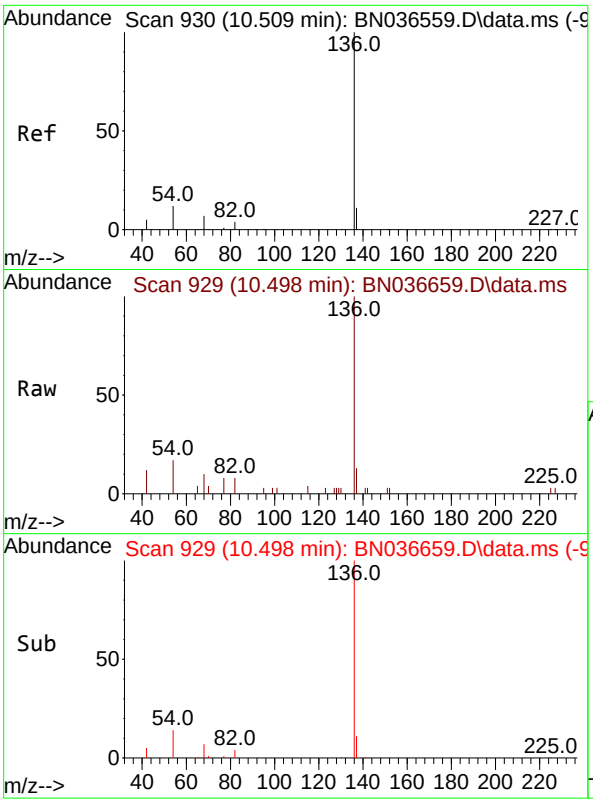


#5
Phenol-d6
Concen: 0.094 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion: 99 Resp: 433

Ion	Ratio	Lower	Upper
99	100		
42	49.4	26.5	39.7#
71	60.7	34.1	51.1#



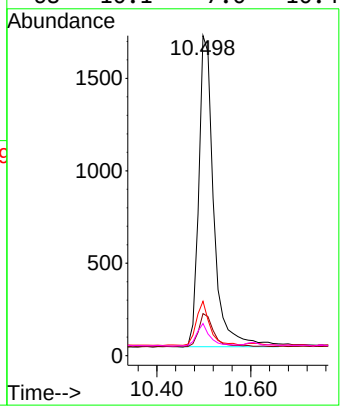


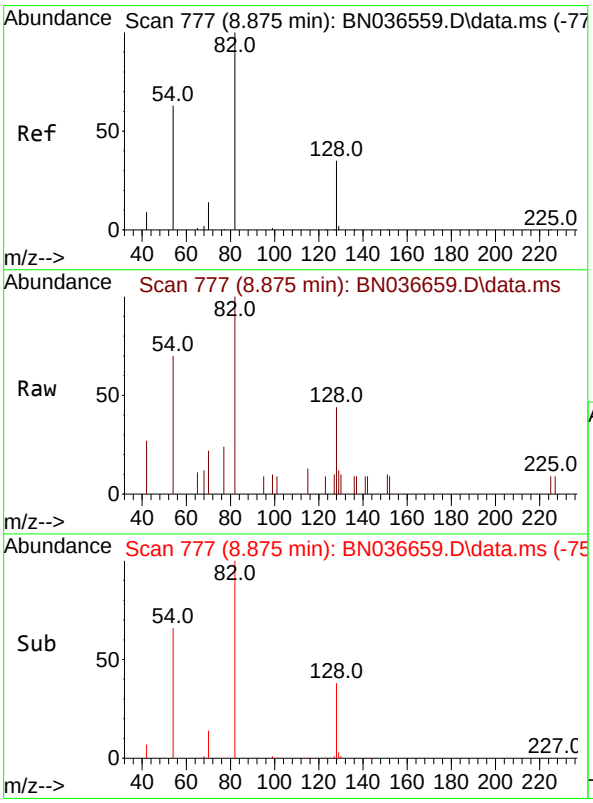
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:136 Resp: 3736

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	17.0	11.5	17.3
68	10.1	7.0	10.4

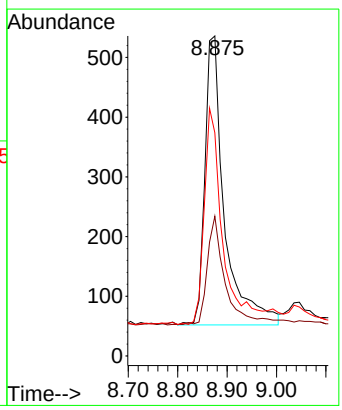


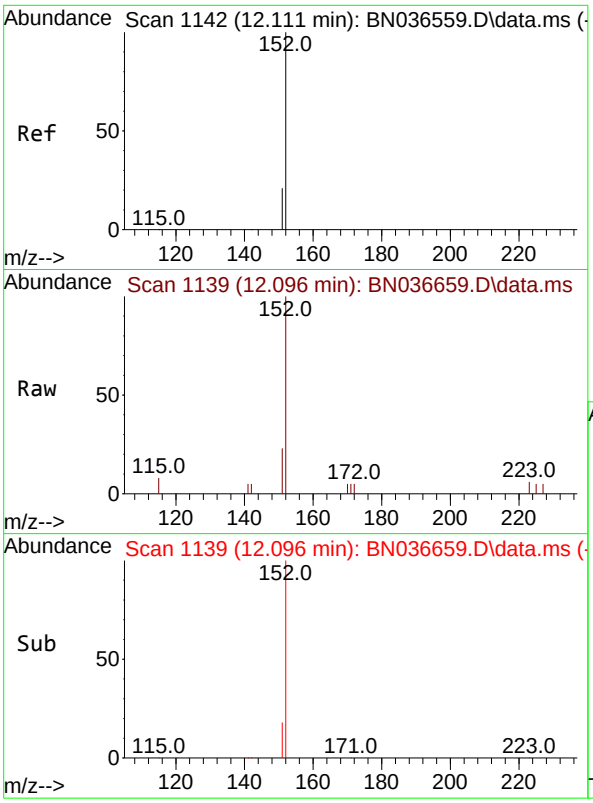


#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion: 82 Resp: 1331

Ion	Ratio	Lower	Upper
82	100		
128	43.7	30.6	45.8
54	69.8	52.2	78.4



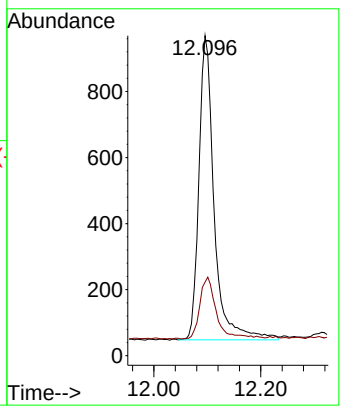


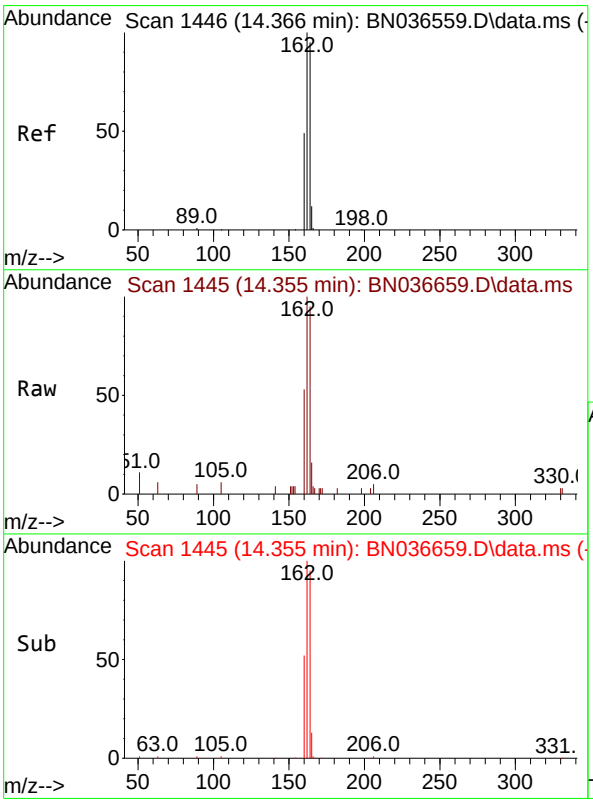
#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:152 Resp: 1829

Ion	Ratio	Lower	Upper
152	100		
151	22.2	17.0	25.6

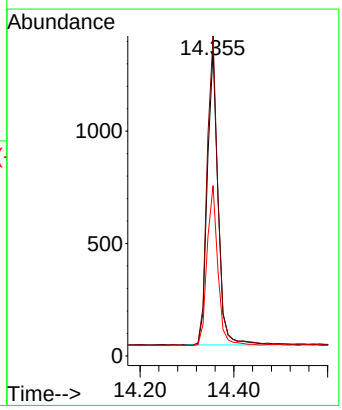


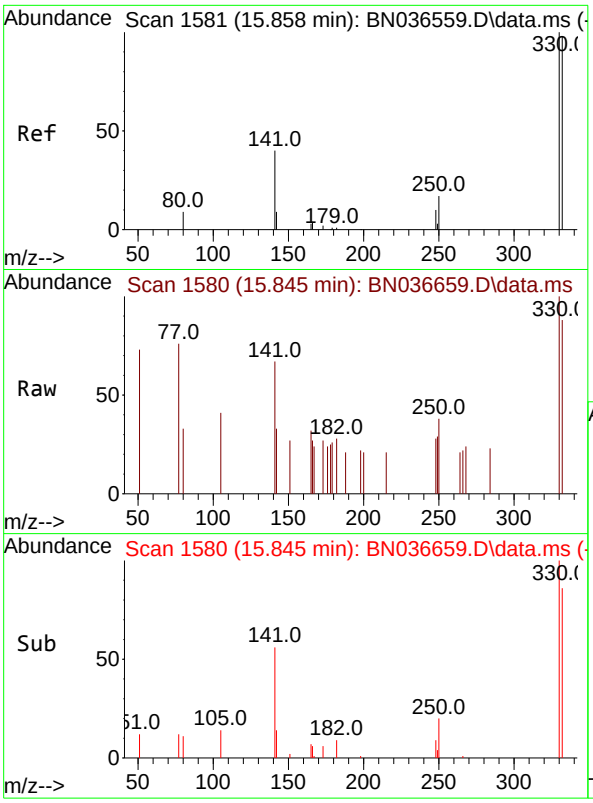


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion:164 Resp: 2090

Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.2	126.2
160	55.8	42.2	63.2



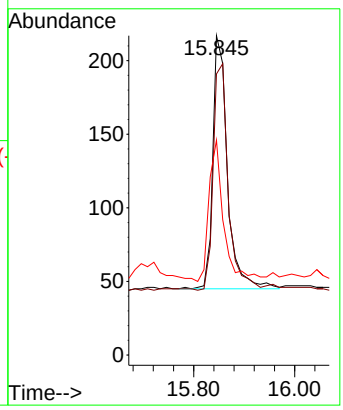


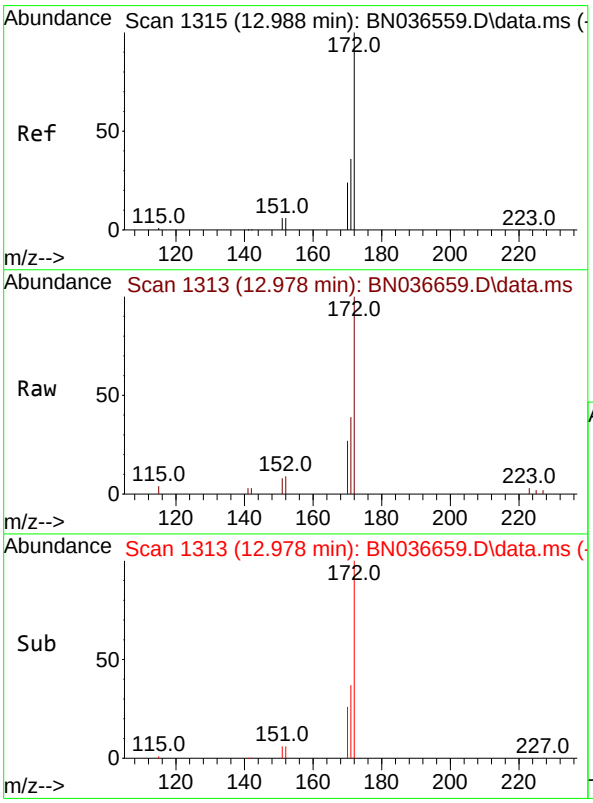
#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:330 Resp: 346

Ion	Ratio	Lower	Upper
330	100		
332	92.8	75.2	112.8
141	55.8	43.4	65.2

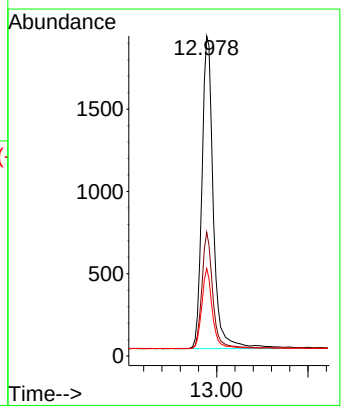


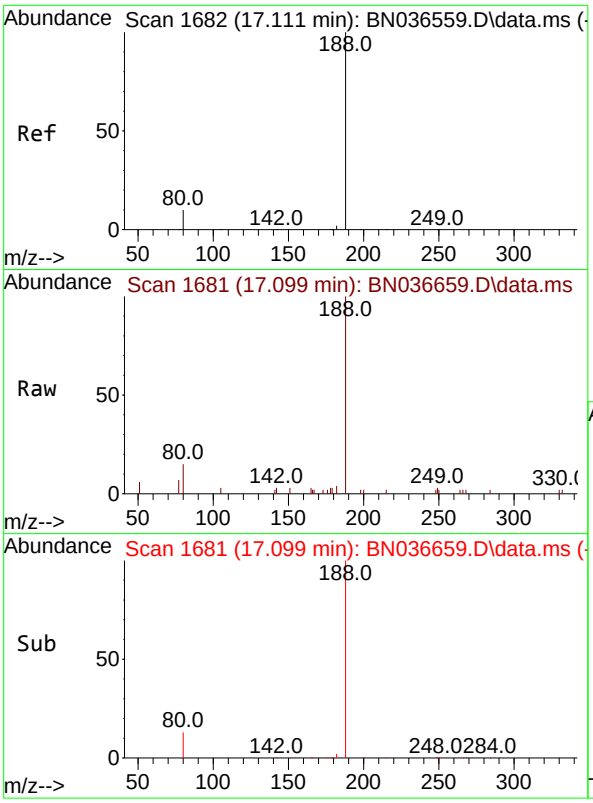


#15
2-Fluorobiphenyl
Concen: 0.376 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion:172 Resp: 4575

Ion	Ratio	Lower	Upper
172	100		
171	38.7	29.5	44.3
170	27.3	20.2	30.4



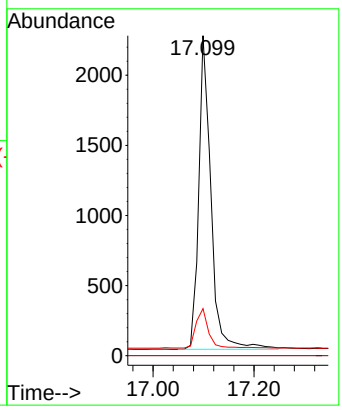


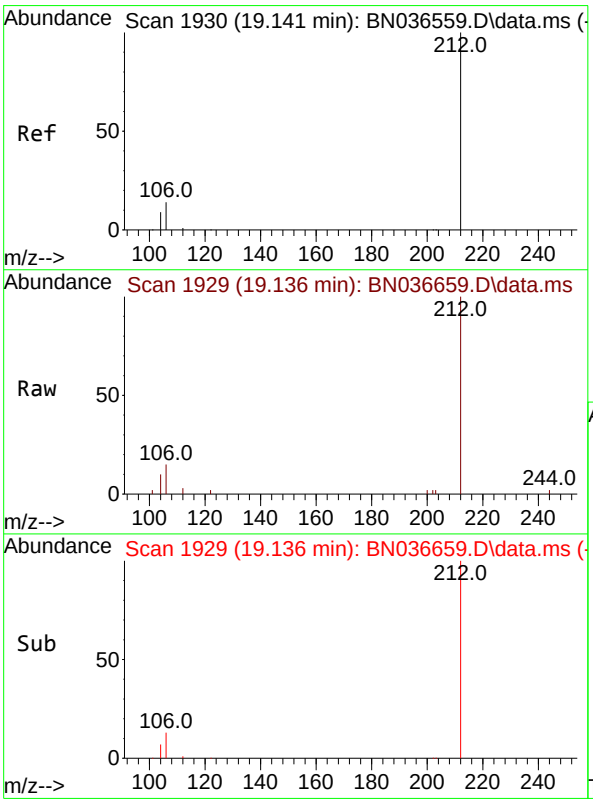
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:188 Resp: 3762

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.7	8.8	13.2#

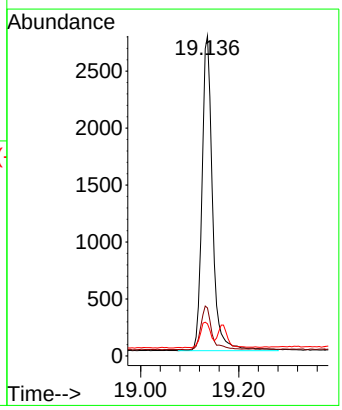


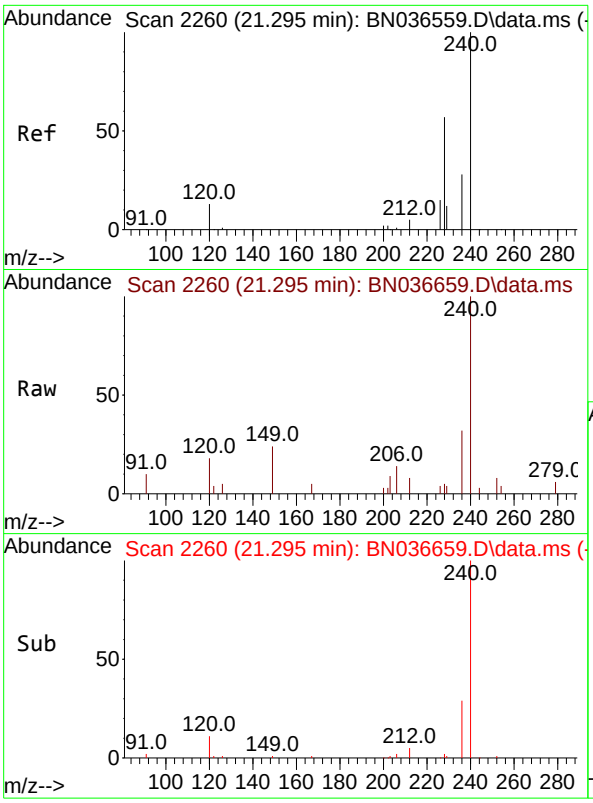


#27
Fluoranthene-d10
Concen: 0.426 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion:212 Resp: 4103

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.1	7.3	10.9



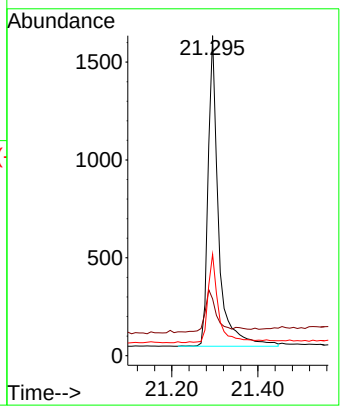


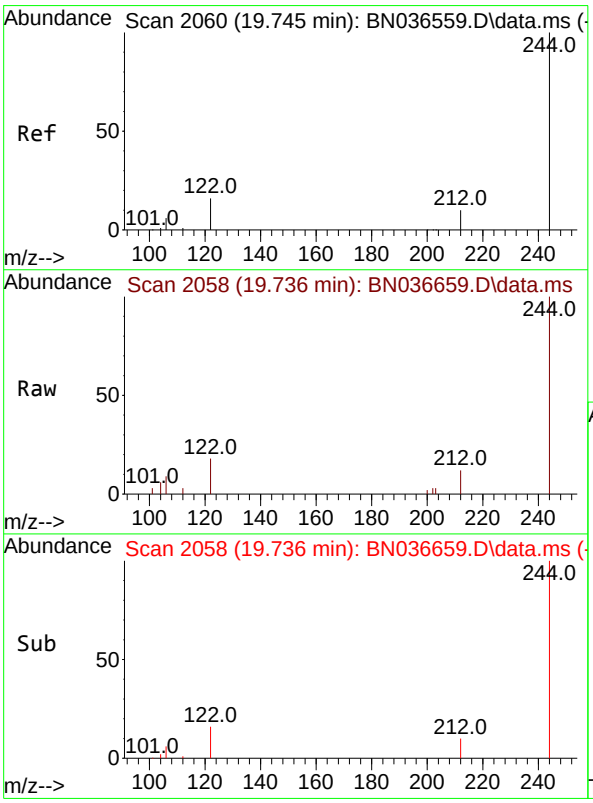
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:240 Resp: 2674

Ion	Ratio	Lower	Upper
240	100		
120	17.7	14.6	22.0
236	31.7	24.1	36.1

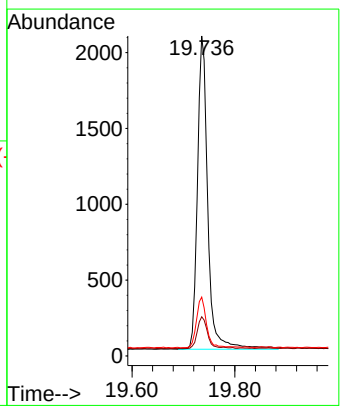


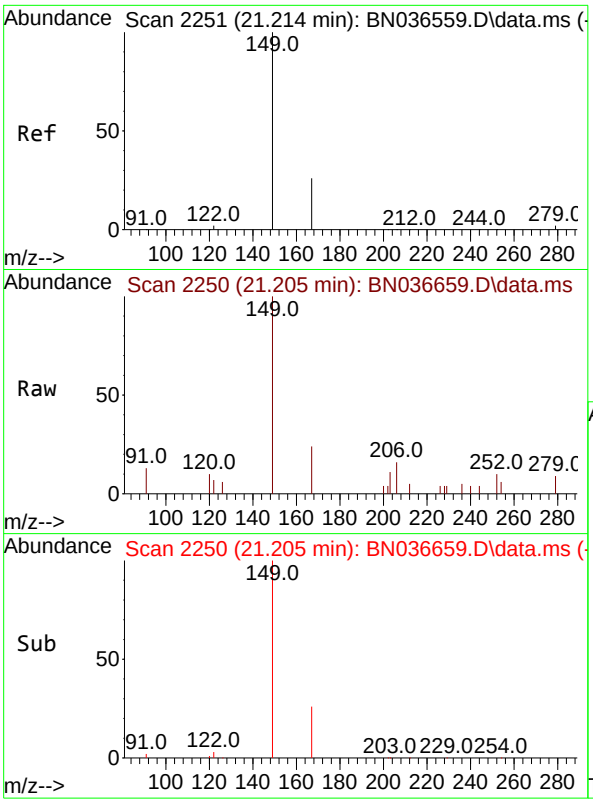


#31
Terphenyl-d14
Concen: 0.450 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion:244 Resp: 2883

Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.6	14.4
122	18.4	13.9	20.9



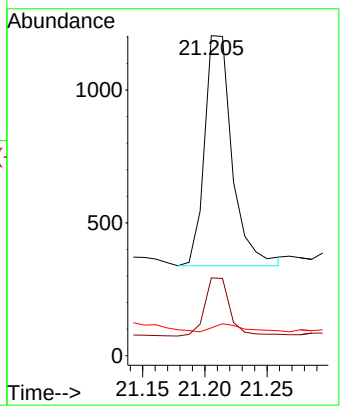


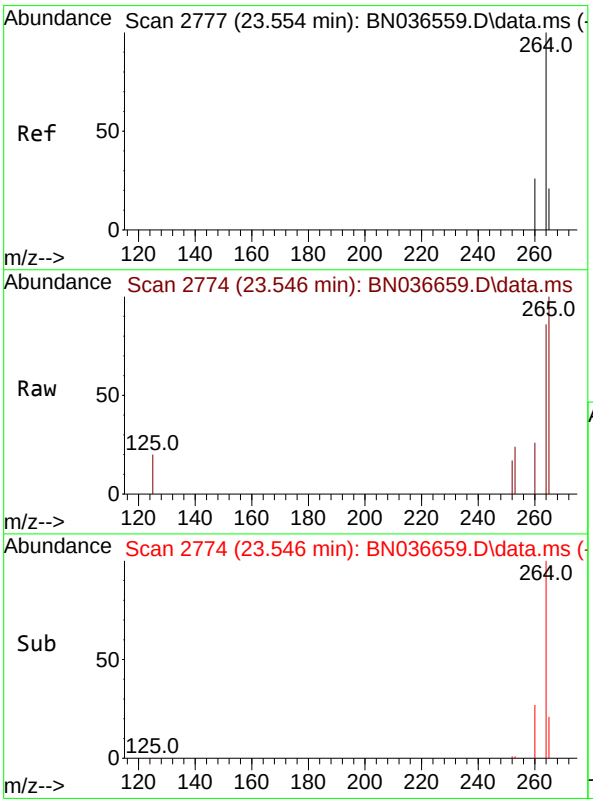
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.201 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Instrument :
BNA_N
ClientSampleId :
RE117D1-20250313

Tgt Ion:149 Resp: 1334

Ion	Ratio	Lower	Upper
149	100		
167	23.4	20.7	31.1
279	3.9	3.6	5.4

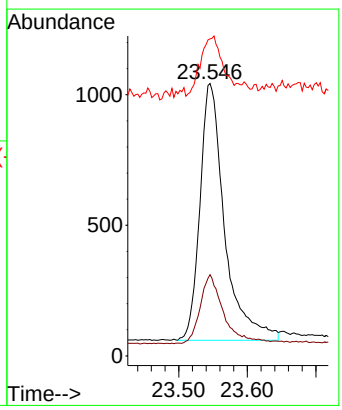




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036659.D
Acq: 17 Mar 2025 14:55

Tgt Ion:264 Resp: 2457

Ion	Ratio	Lower	Upper
264	100		
260	29.8	22.6	33.8
265	116.4	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	940 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
BN036660.D	1	03/17/25 08:48	03/17/25 15:31	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.90		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	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	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1530	7.717				
1146-65-2	Naphthalene-d8	3720	10.509				
15067-26-2	Acenaphthene-d10	2290	14.355				
1517-22-2	Phenanthrene-d10	4470	17.099				
1719-03-5	Chrysene-d12	2910	21.295				
1520-96-3	Perylene-d12	2390	23.546				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036660.D
Acq On : 17 Mar 2025 15:31
Operator : RC/JU
Sample : Q1582-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Quant Time: Mar 17 16:25:56 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

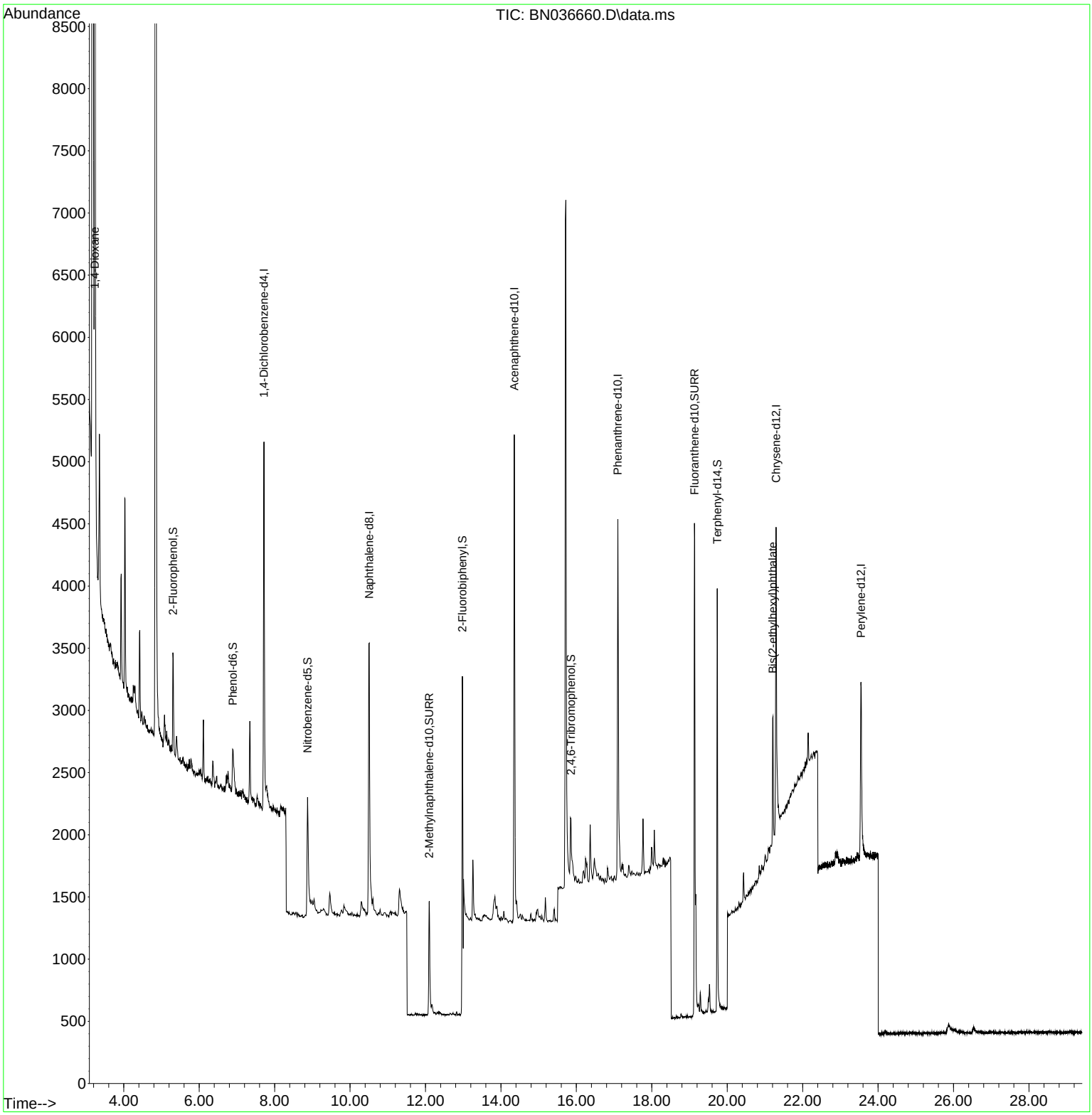
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1526	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3719	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2286	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4473	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2911	0.400	ng	0.00
35) Perylene-d12	23.546	264	2391	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	605	0.170	ng	0.00
5) Phenol-d6	6.894	99	418	0.095	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.286	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1611	0.291	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	371	0.358	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4087	0.307	ng	-0.01
27) Fluoranthene-d10	19.136	212	4934	0.430	ng	0.00
31) Terphenyl-d14	19.736	244	3540	0.508	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.232	88	6134	3.624	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.205	149	1193	0.166	ng	# 97

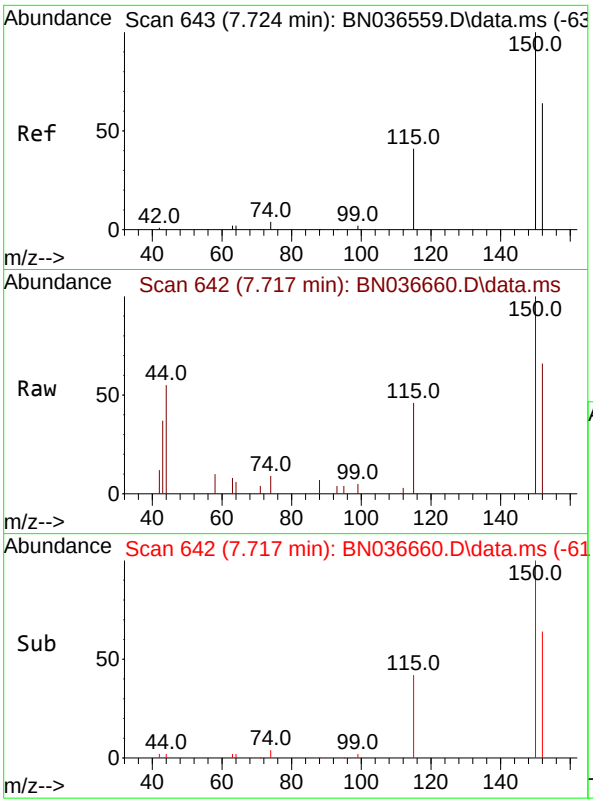
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036660.D
Acq On : 17 Mar 2025 15:31
Operator : RC/JU
Sample : Q1582-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Quant Time: Mar 17 16:25:56 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



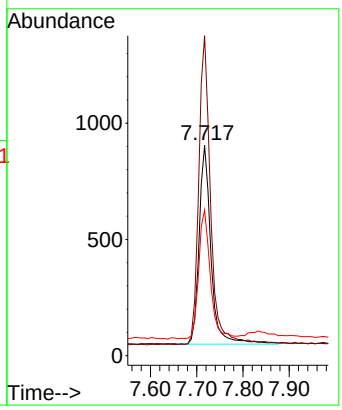


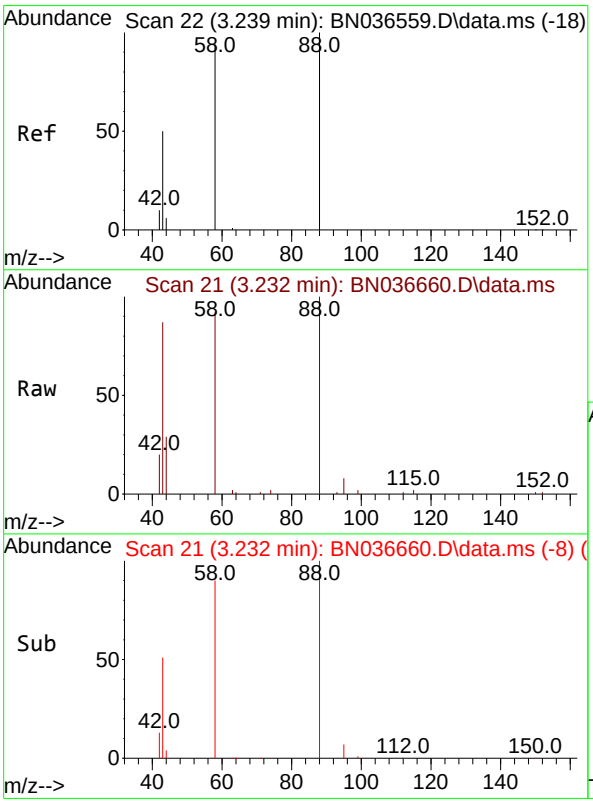
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Tgt Ion:152 Resp: 1526

Ion	Ratio	Lower	Upper
152	100		
150	152.0	123.7	185.5
115	69.3	54.3	81.5

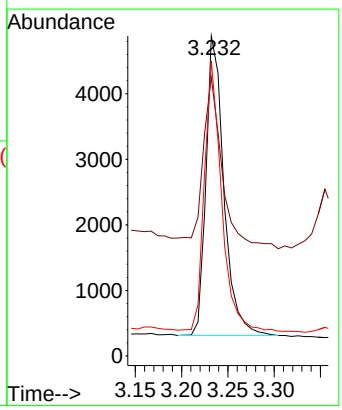


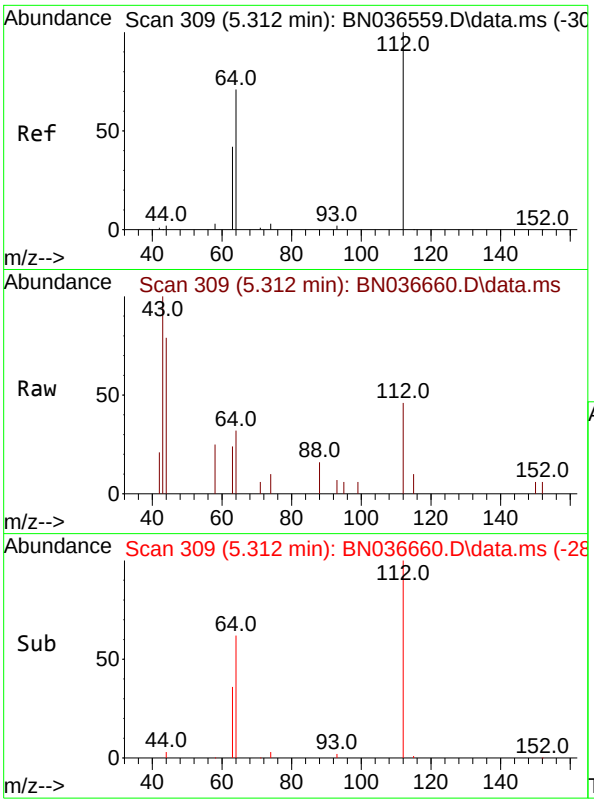


#2
1,4-Dioxane
Concen: 3.624 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion: 88 Resp: 6134

Ion	Ratio	Lower	Upper
88	100		
43	62.8	37.8	56.8#
58	86.6	67.4	101.2



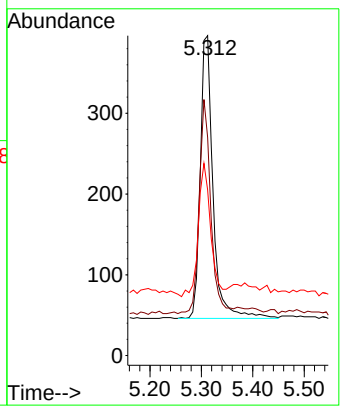


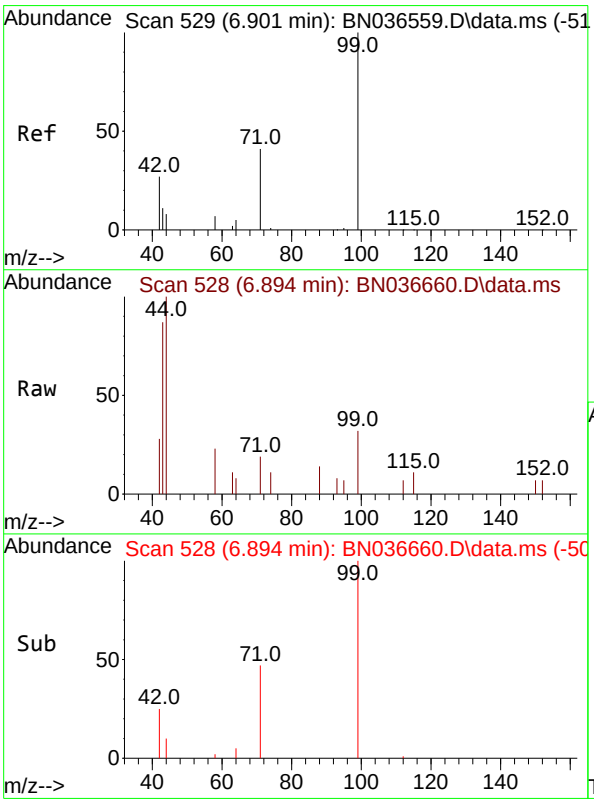
#4
2-Fluorophenol
Concen: 0.170 ng
RT: 5.312 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Tgt Ion:112 Resp: 605

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	45.6	31.8	47.8

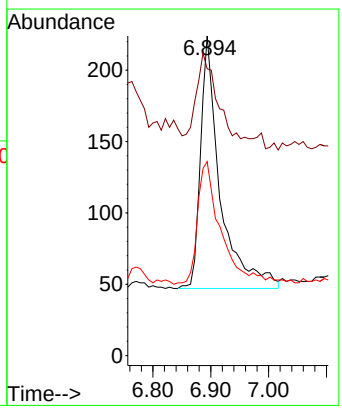


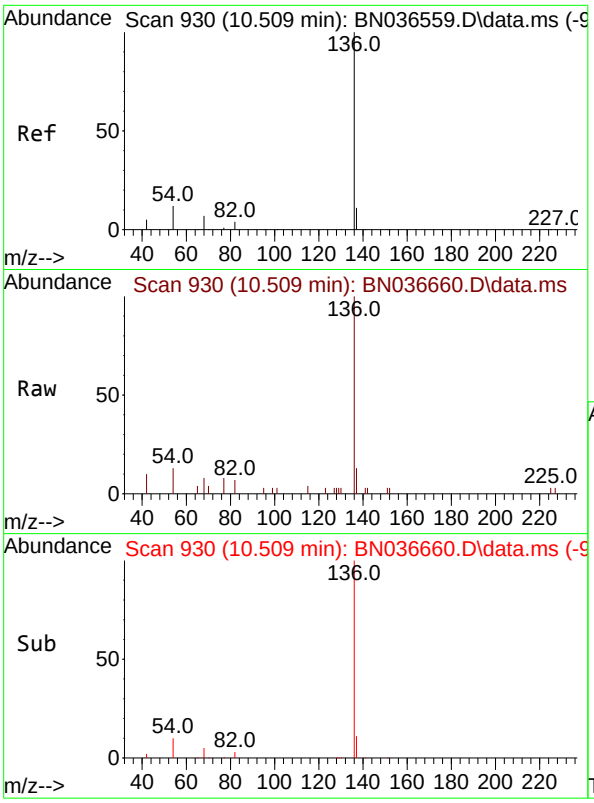


#5
Phenol-d6
Concen: 0.095 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion: 99 Resp: 418

Ion	Ratio	Lower	Upper
99	100		
42	33.0	26.5	39.7
71	58.9	34.1	51.1#



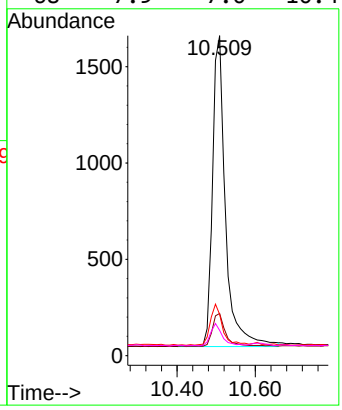


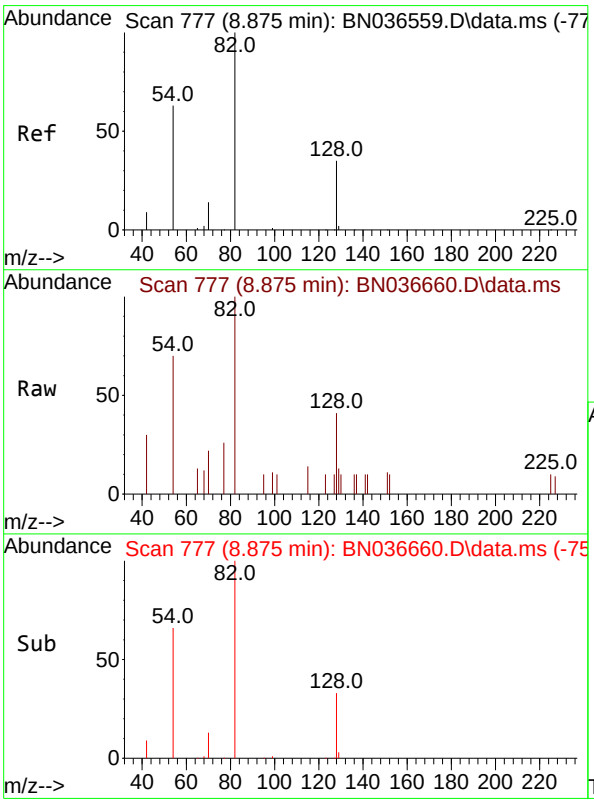
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Tgt Ion:136 Resp: 3719

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	12.9	11.5	17.3
68	7.9	7.0	10.4

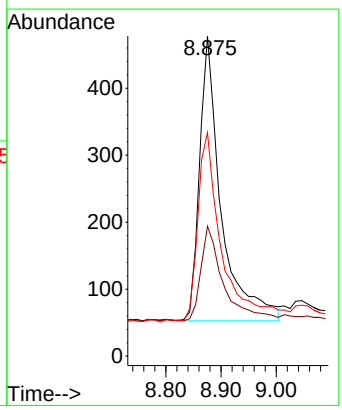


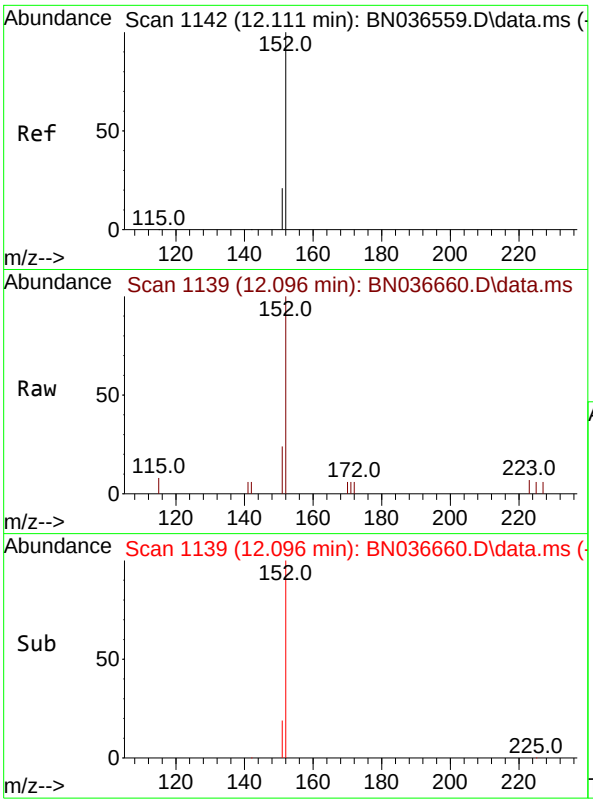


#8
Nitrobenzene-d5
Concen: 0.286 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion: 82 Resp: 1156

Ion	Ratio	Lower	Upper
82	100		
128	40.6	30.6	45.8
54	69.9	52.2	78.4



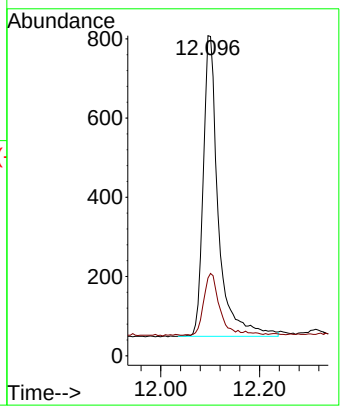


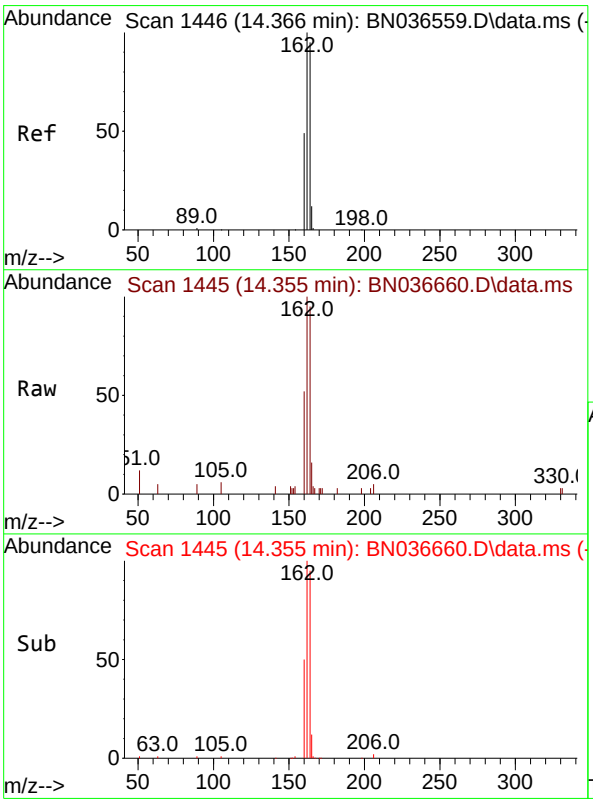
#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Tgt Ion:152 Resp: 1611

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

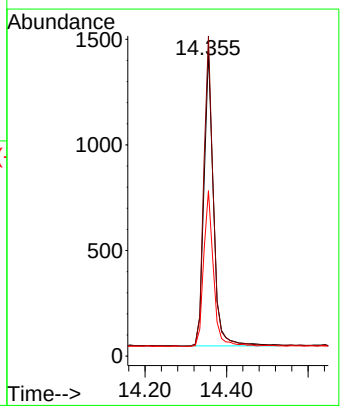


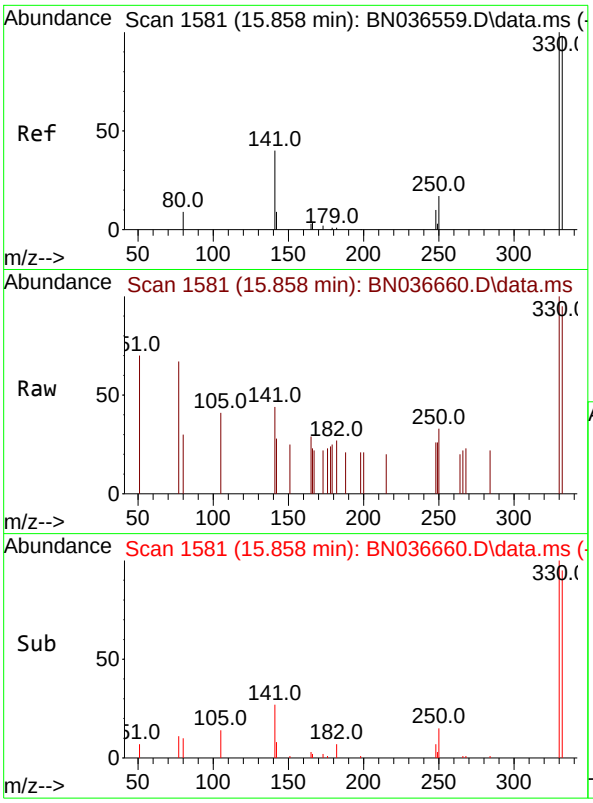


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion:164 Resp: 2286

Ion	Ratio	Lower	Upper
164	100		
162	105.1	84.2	126.2
160	54.3	42.2	63.2



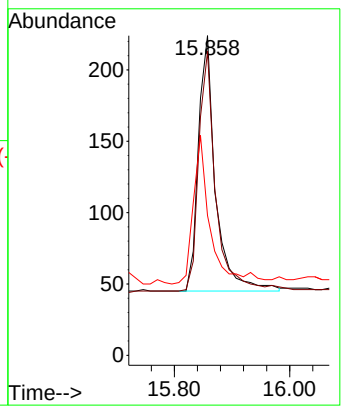


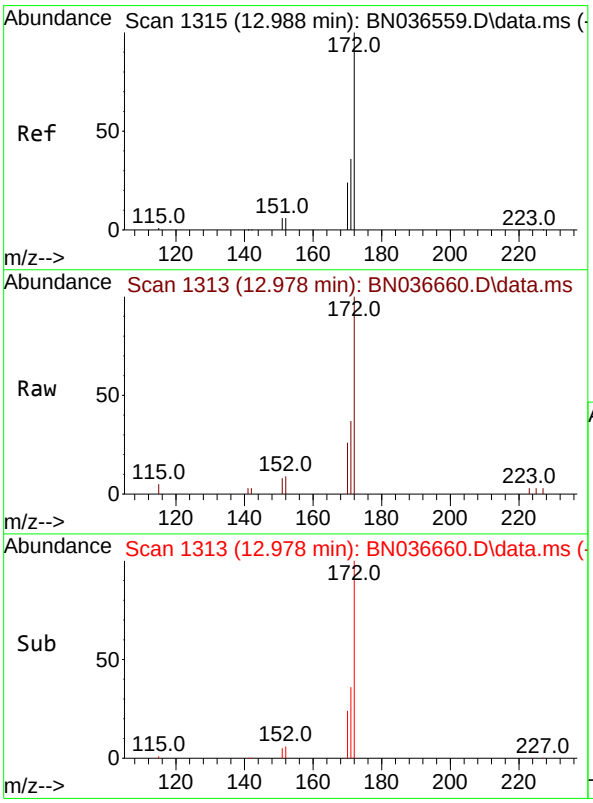
#14
2,4,6-Tribromophenol
Concen: 0.358 ng
RT: 15.858 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Tgt Ion:330 Resp: 371

Ion	Ratio	Lower	Upper
330	100		
332	93.8	75.2	112.8
141	57.1	43.4	65.2

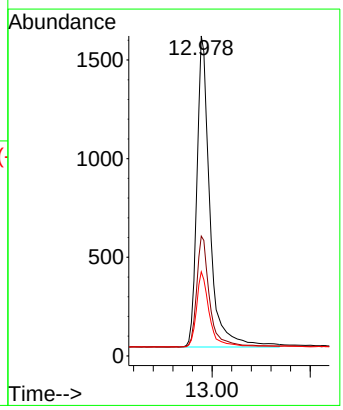


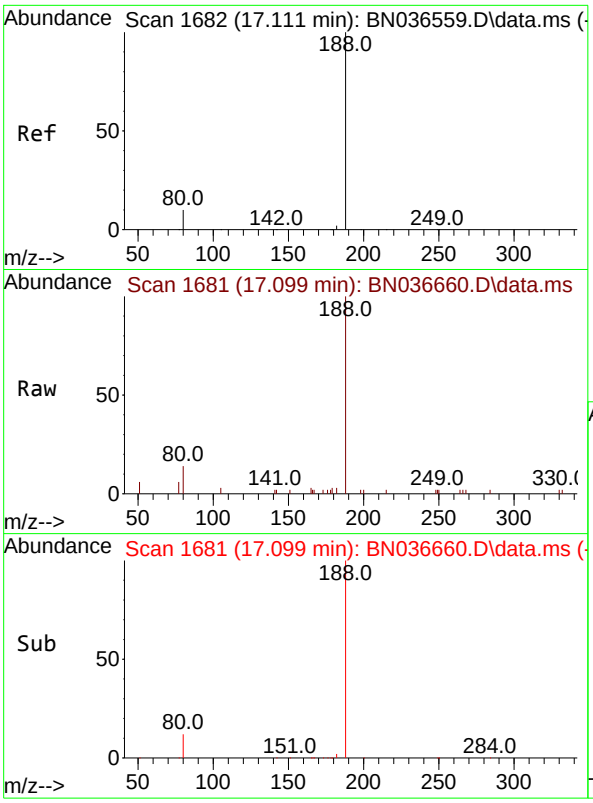


#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion:172 Resp: 4087

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.5	44.3
170	26.3	20.2	30.4



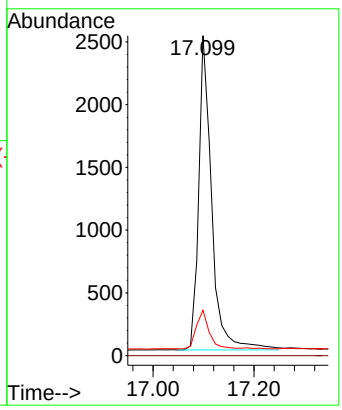


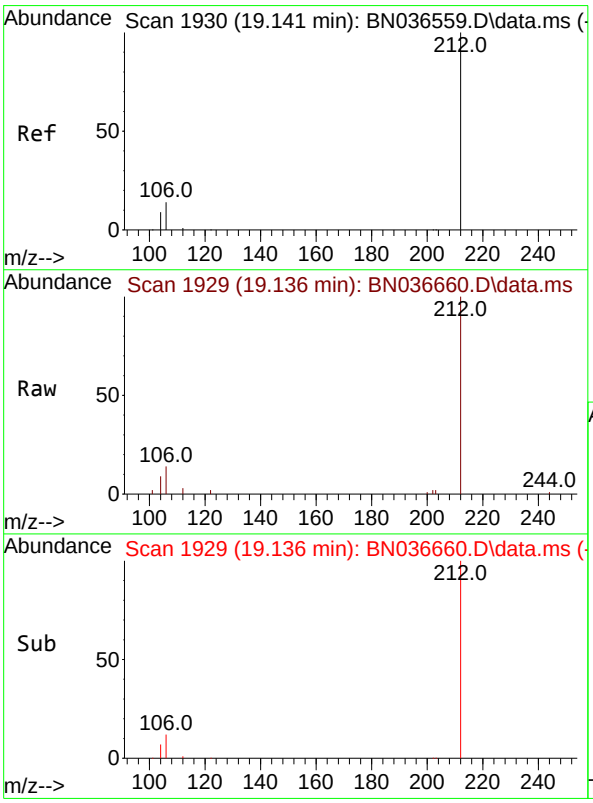
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Tgt Ion:188 Resp: 4473

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

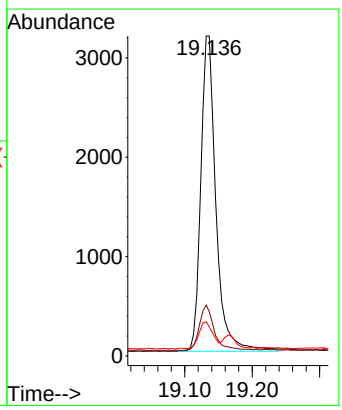


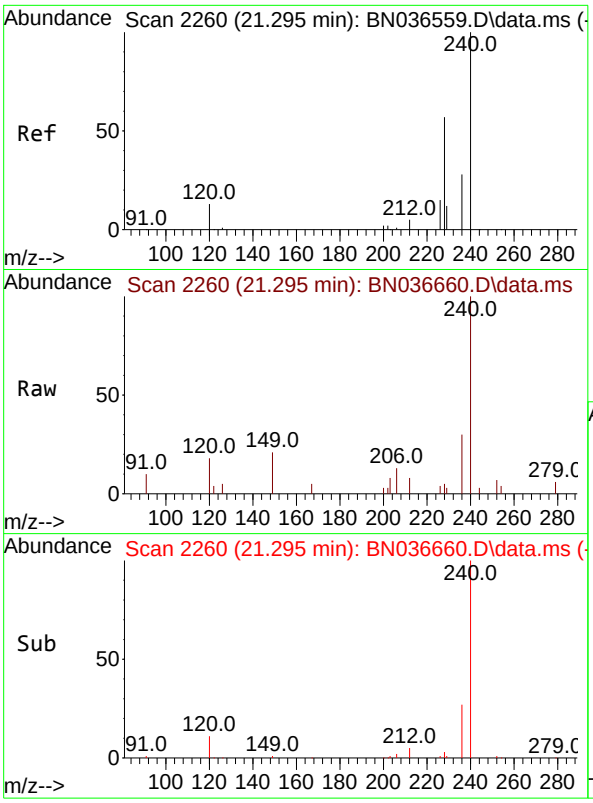


#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion:212 Resp: 4934

Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.8	17.6
104	8.1	7.3	10.9



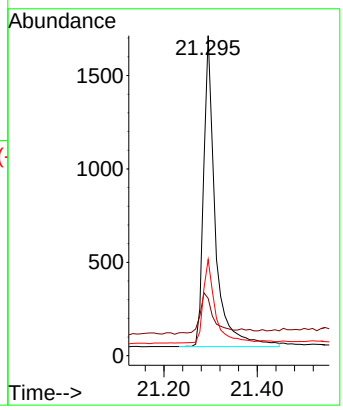


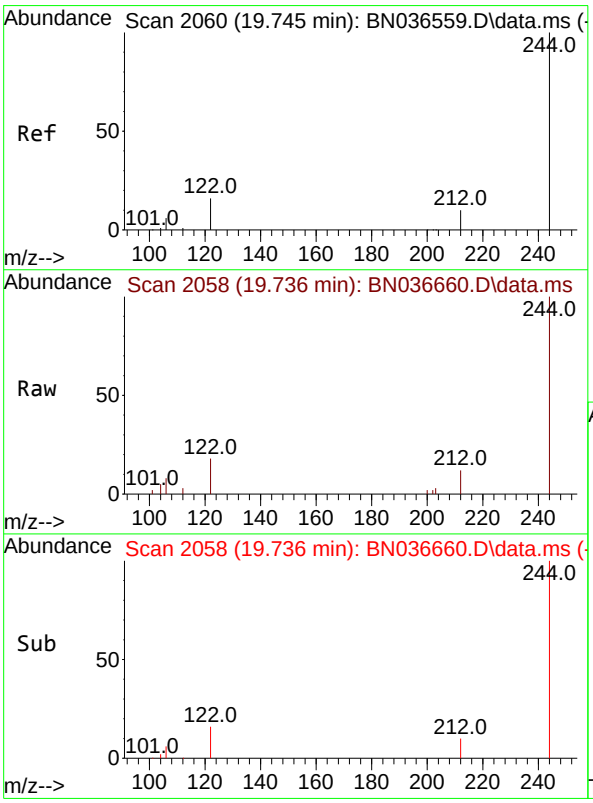
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Tgt Ion:240 Resp: 2911

Ion	Ratio	Lower	Upper
240	100		
120	17.9	14.6	22.0
236	30.1	24.1	36.1

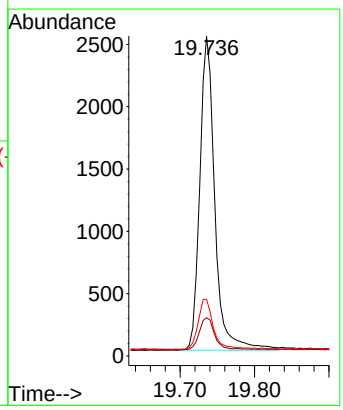


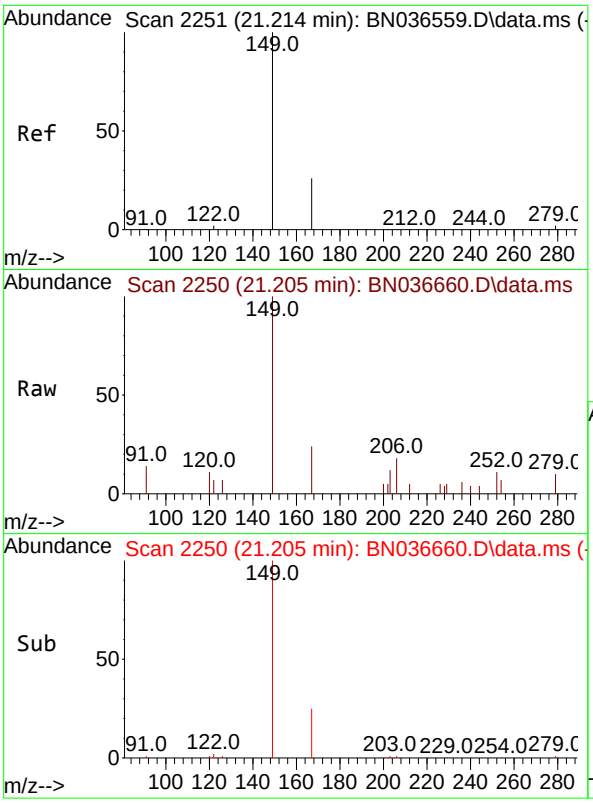


#31
Terphenyl-d14
Concen: 0.508 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion:244 Resp: 3540

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.7	13.9	20.9



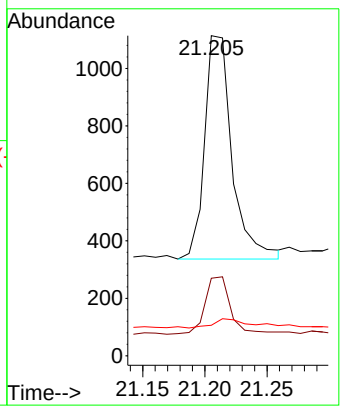


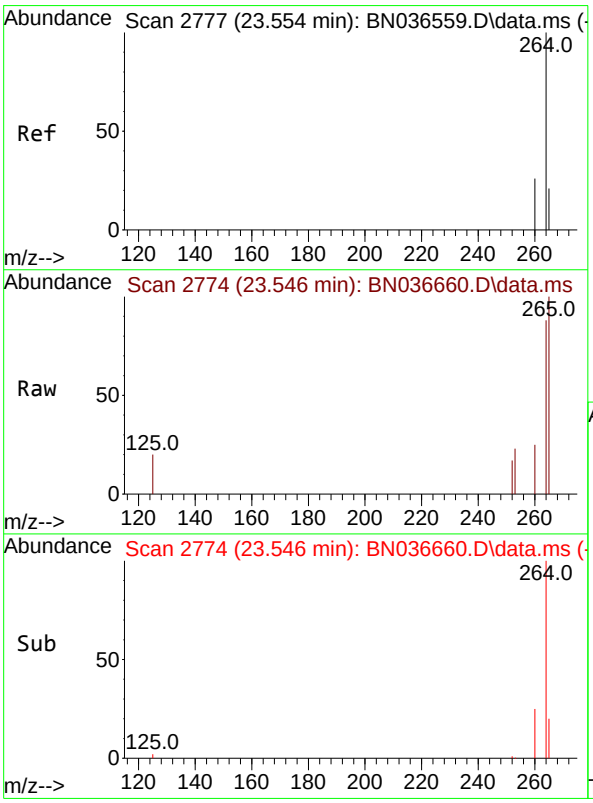
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.166 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Instrument :
BNA_N
ClientSampleId :
TT180D1-20250313

Tgt Ion:149 Resp: 1193

Ion	Ratio	Lower	Upper
149	100		
167	24.6	20.7	31.1
279	5.9	3.6	5.4#

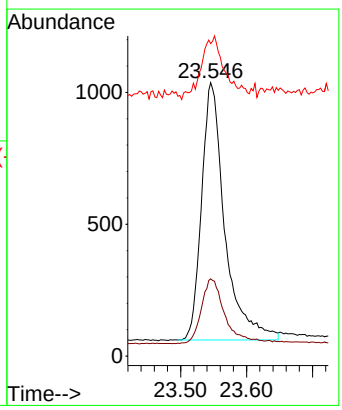




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036660.D
Acq: 17 Mar 2025 15:31

Tgt Ion:264 Resp: 2391

Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.6	33.8
265	114.3	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D2-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-03	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
BN036661.D	1	03/17/25 08:48	03/17/25 16:07	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.20	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	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	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.717				
1146-65-2	Naphthalene-d8	3510	10.509				
15067-26-2	Acenaphthene-d10	2180	14.356				
1517-22-2	Phenanthrene-d10	4400	17.099				
1719-03-5	Chrysene-d12	2930	21.295				
1520-96-3	Perylene-d12	2430	23.549				

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\BN031725\
Data File : BN036661.D
Acq On : 17 Mar 2025 16:07
Operator : RC/JU
Sample : Q1582-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Quant Time: Mar 17 16:55:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

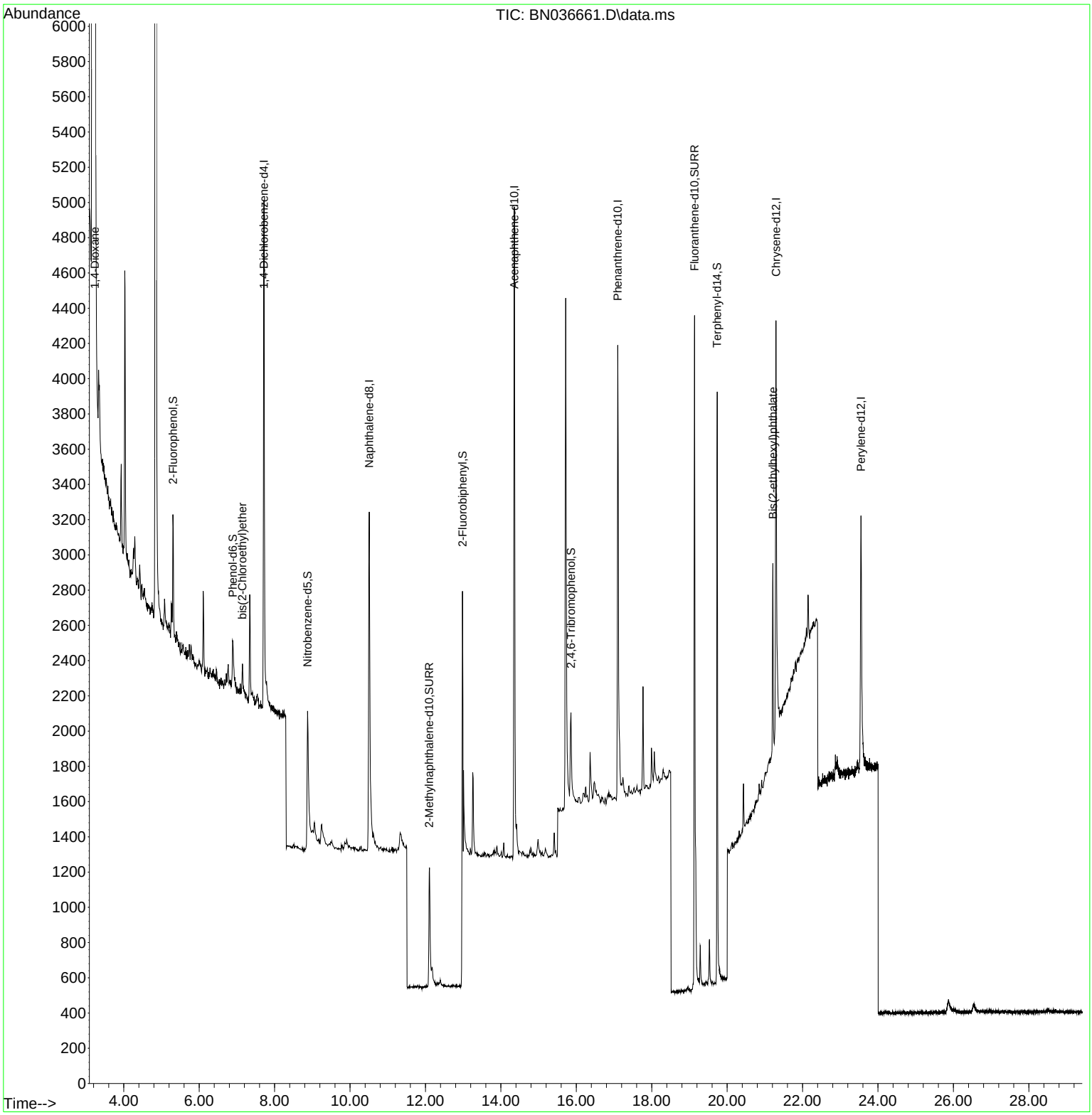
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1480	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3511	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2177	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4400	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2930	0.400	ng	0.00
35) Perylene-d12	23.549	264	2432	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	517	0.150	ng	0.00
5) Phenol-d6	6.894	99	334	0.078	ng	0.00
8) Nitrobenzene-d5	8.875	82	1113	0.291	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	1448	0.277	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	381	0.386	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	3451	0.272	ng	0.00
27) Fluoranthene-d10	19.136	212	4972	0.441	ng	0.00
31) Terphenyl-d14	19.736	244	3579	0.510	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.232	88	8538	5.200	ng	94
6) bis(2-Chloroethyl)ether	7.147	93	137	0.031	ng	# 81
34) Bis(2-ethylhexyl)phtha...	21.214	149	1231	0.170	ng	97

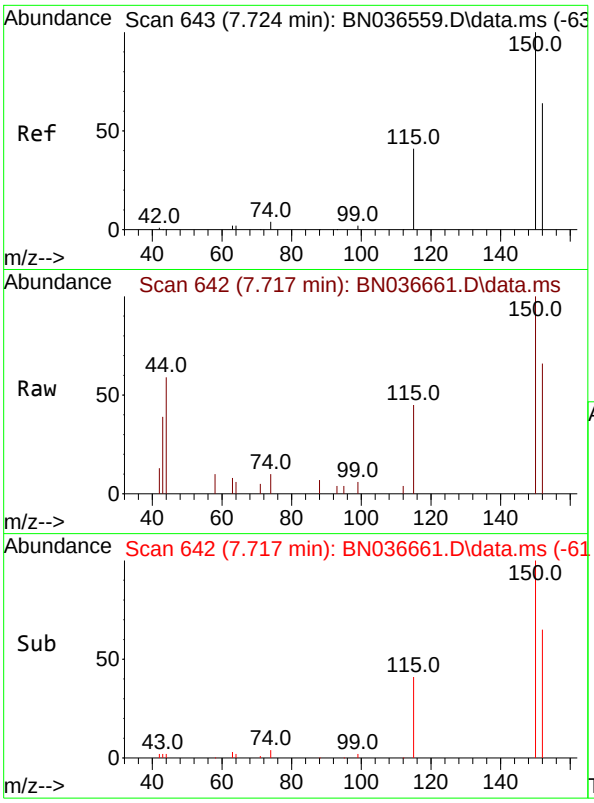
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036661.D
Acq On : 17 Mar 2025 16:07
Operator : RC/JU
Sample : Q1582-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Quant Time: Mar 17 16:55:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



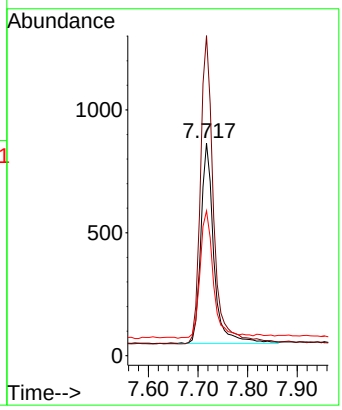


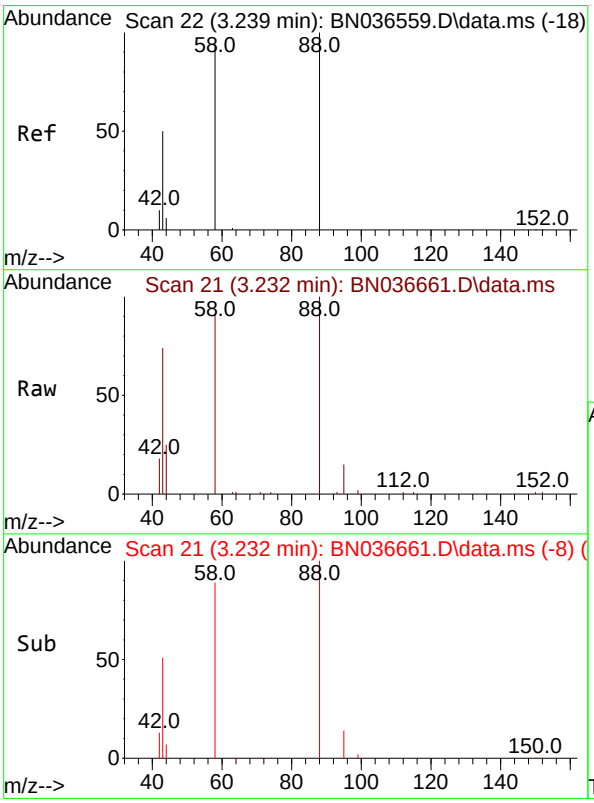
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion:152 Resp: 1480

Ion	Ratio	Lower	Upper
152	100		
150	150.5	123.7	185.5
115	68.1	54.3	81.5

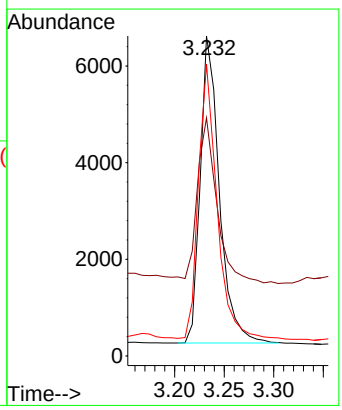


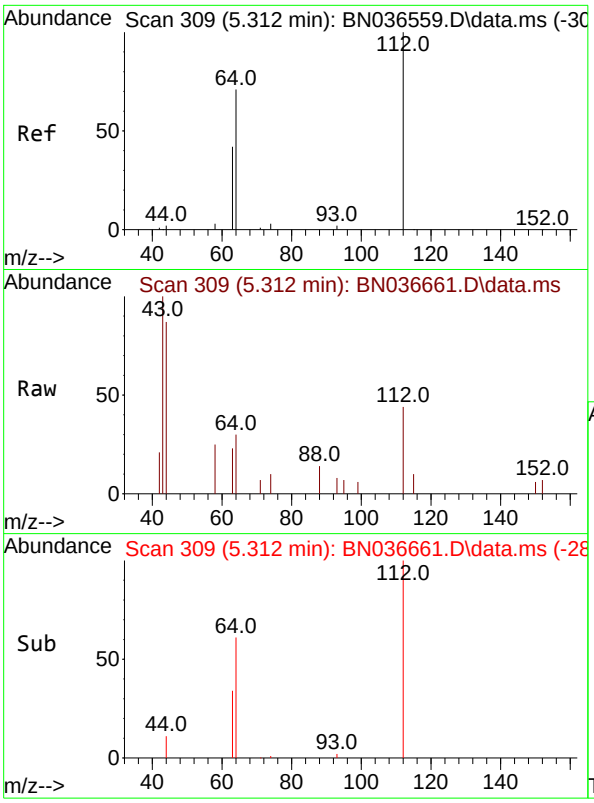


#2
1,4-Dioxane
Concen: 5.200 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion: 88 Resp: 8538

Ion	Ratio	Lower	Upper
88	100		
43	56.2	37.8	56.8
58	86.3	67.4	101.2



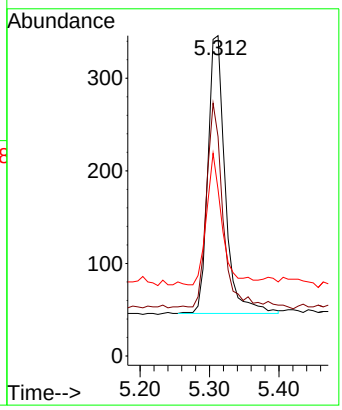


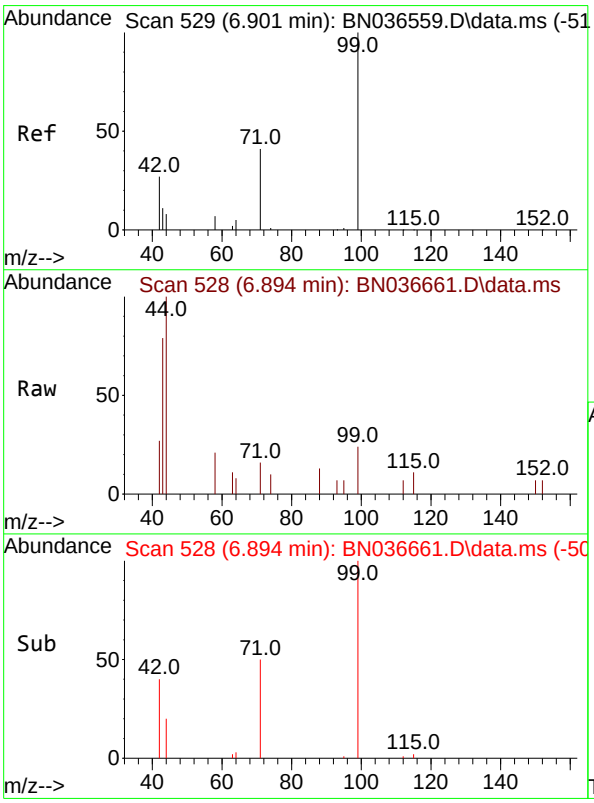
#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.312 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion:112 Resp: 517

Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.1	79.7
63	42.7	31.8	47.8

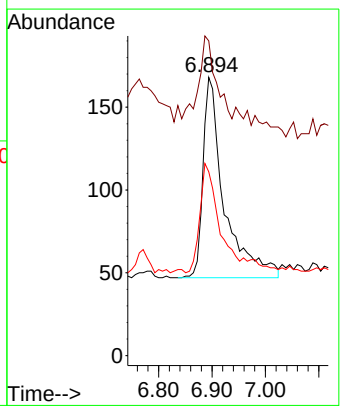


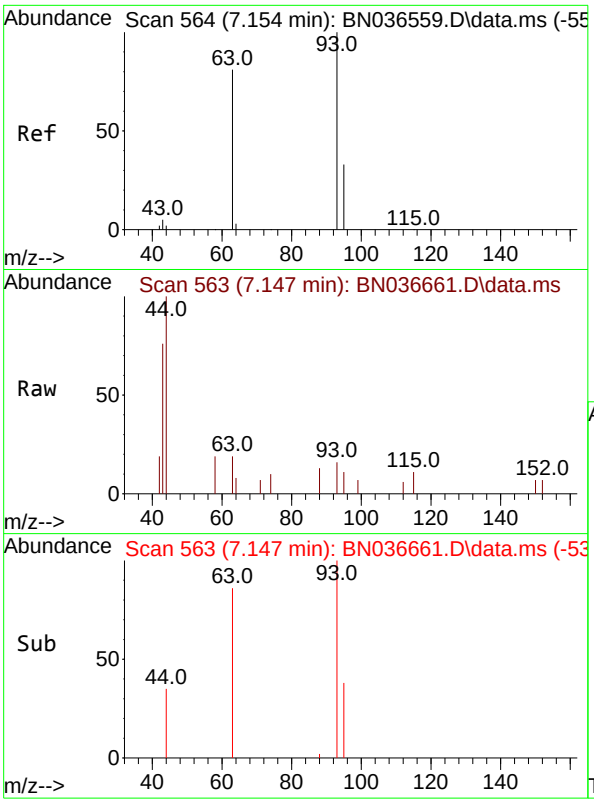


#5
Phenol-d6
Concen: 0.078 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion: 99 Resp: 334

Ion	Ratio	Lower	Upper
99	100		
42	33.5	26.5	39.7
71	55.4	34.1	51.1#



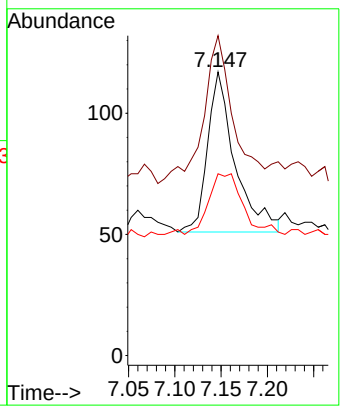


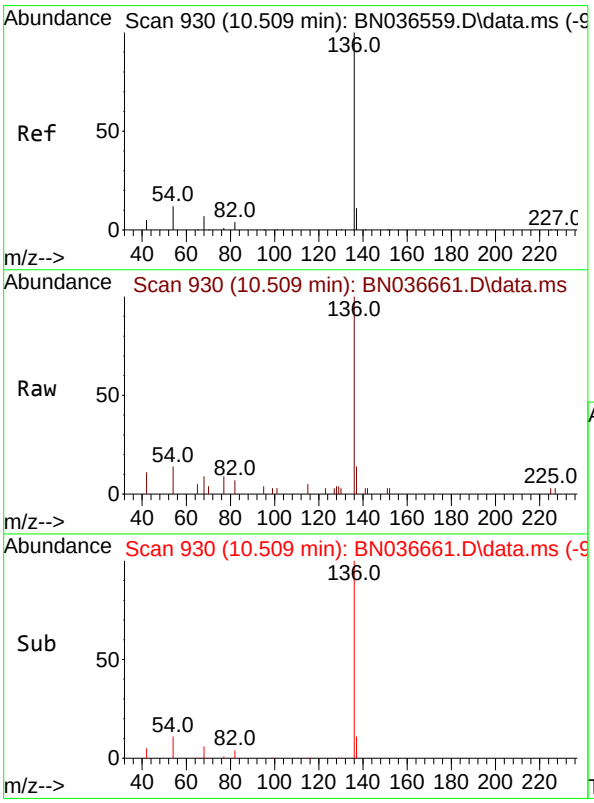
#6
bis(2-Chloroethyl)ether
Concen: 0.031 ng
RT: 7.147 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion: 93 Resp: 137

Ion	Ratio	Lower	Upper
93	100		
63	99.3	67.7	101.5
95	46.7	25.6	38.4#

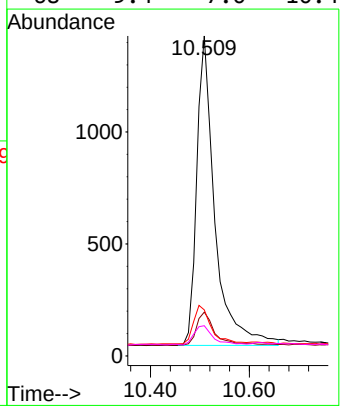


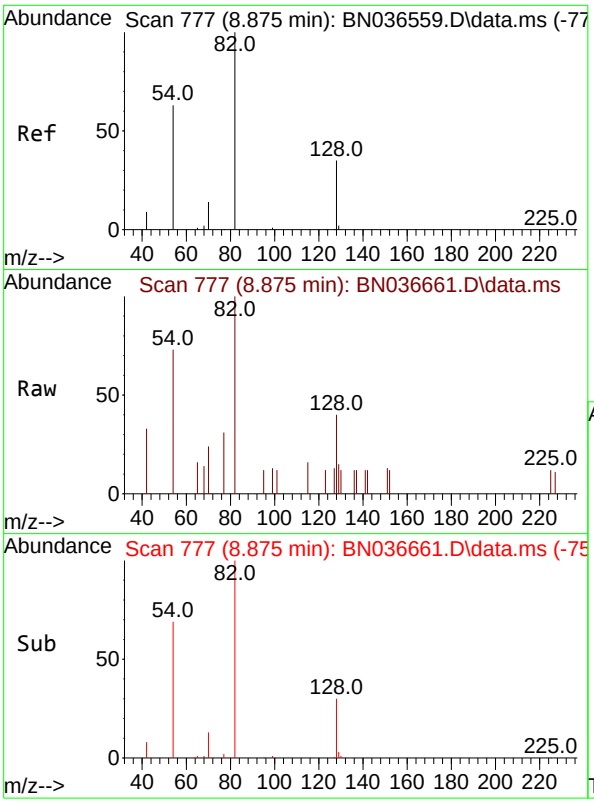


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:136 Resp: 3511

Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.3	15.5
54	14.4	11.5	17.3
68	9.4	7.0	10.4



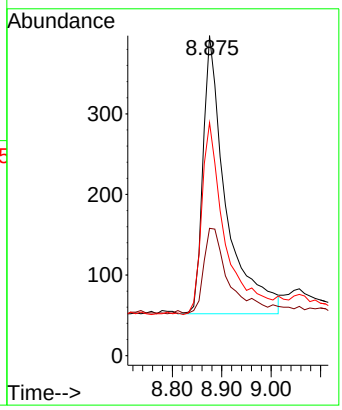


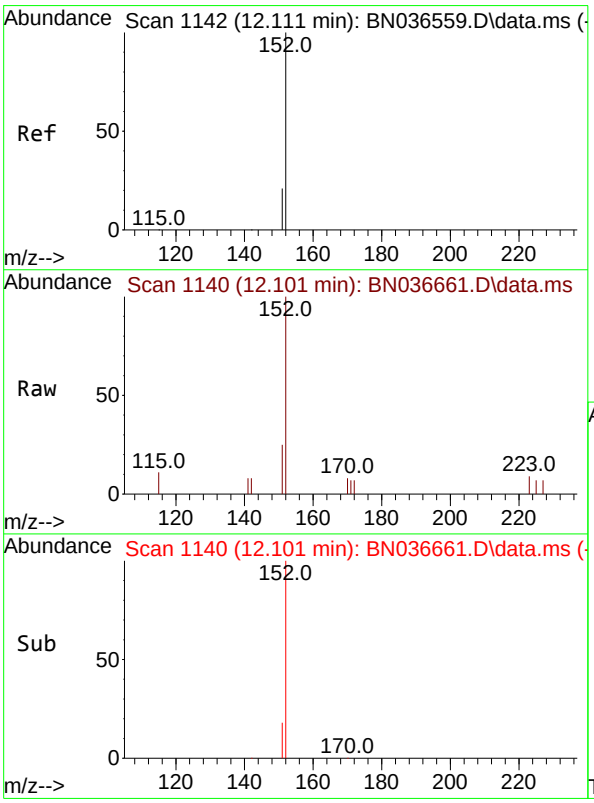
#8
Nitrobenzene-d5
Concen: 0.291 ng
RT: 8.875 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion: 82 Resp: 1113

Ion	Ratio	Lower	Upper
82	100		
128	39.8	30.6	45.8
54	72.8	52.2	78.4

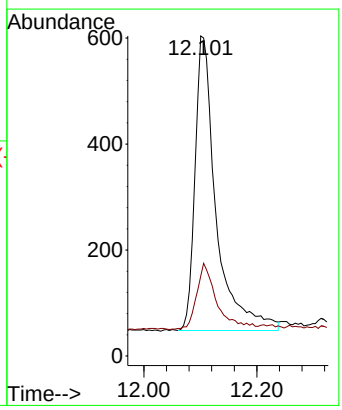


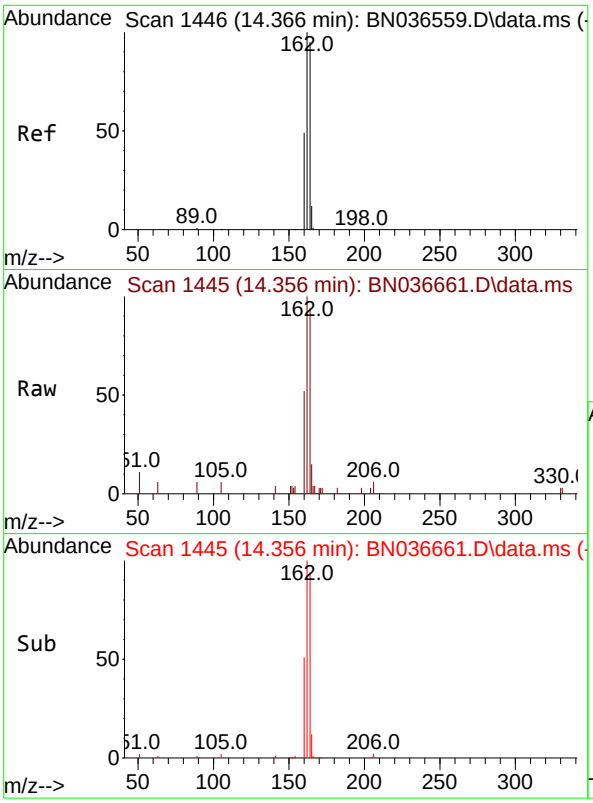


#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 12.101 min Scan# 1140
Delta R.T. -0.010 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:152 Resp: 1448

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6



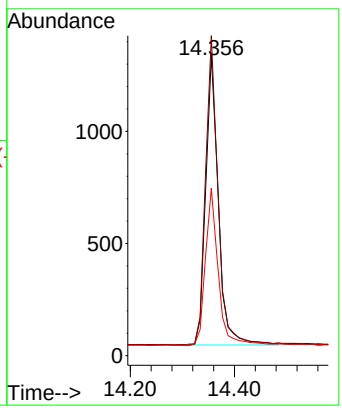


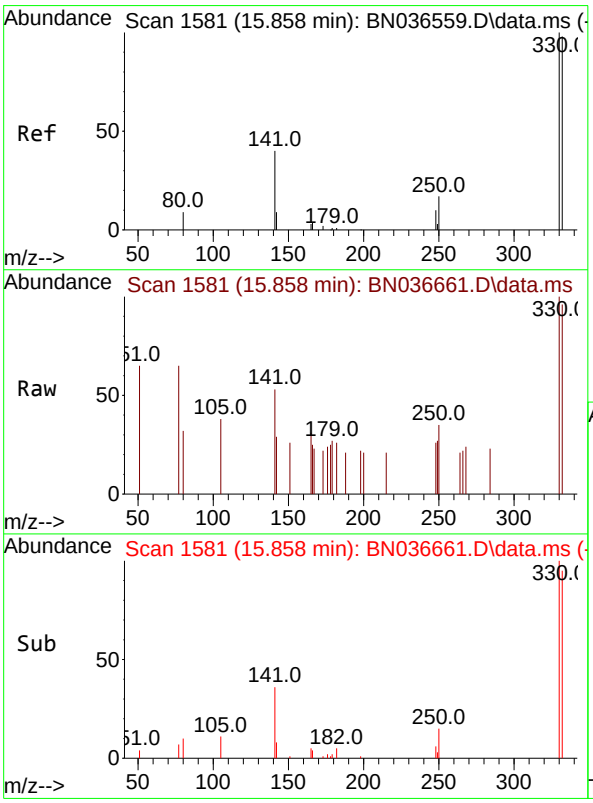
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion:164 Resp: 2177

Ion	Ratio	Lower	Upper
164	100		
162	106.5	84.2	126.2
160	55.7	42.2	63.2

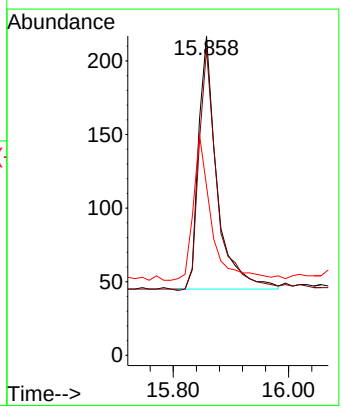


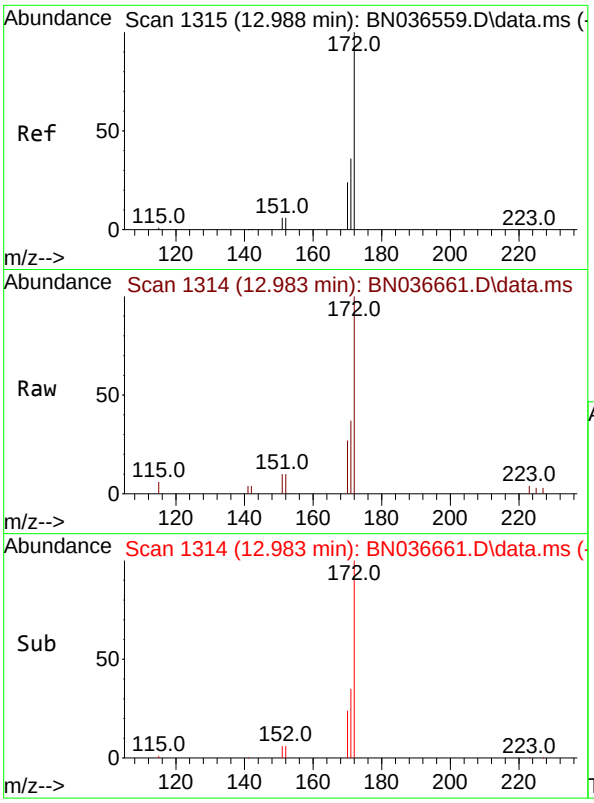


#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:330 Resp: 381

Ion	Ratio	Lower	Upper
330	100		
332	97.1	75.2	112.8
141	56.7	43.4	65.2



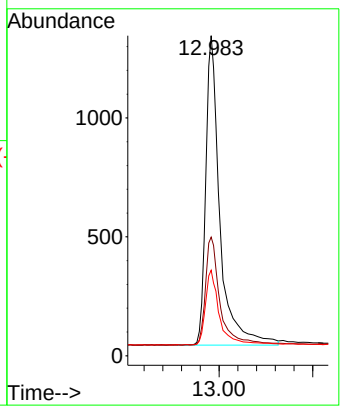


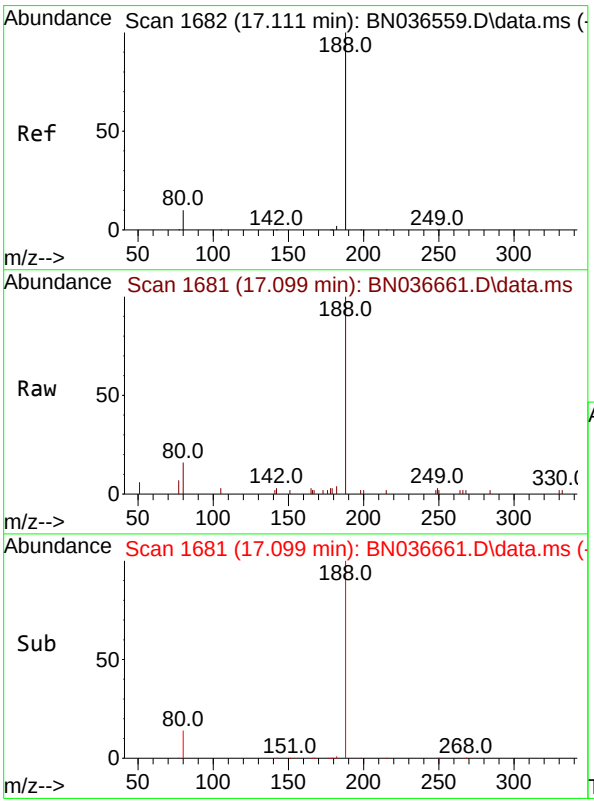
#15
2-Fluorobiphenyl
Concen: 0.272 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion:172 Resp: 3451

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	26.7	20.2	30.4

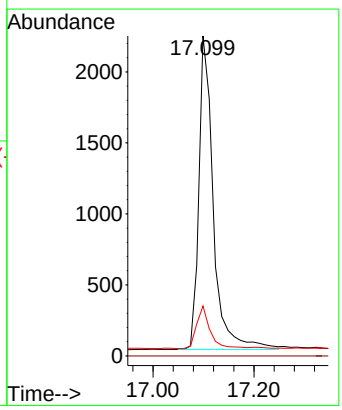


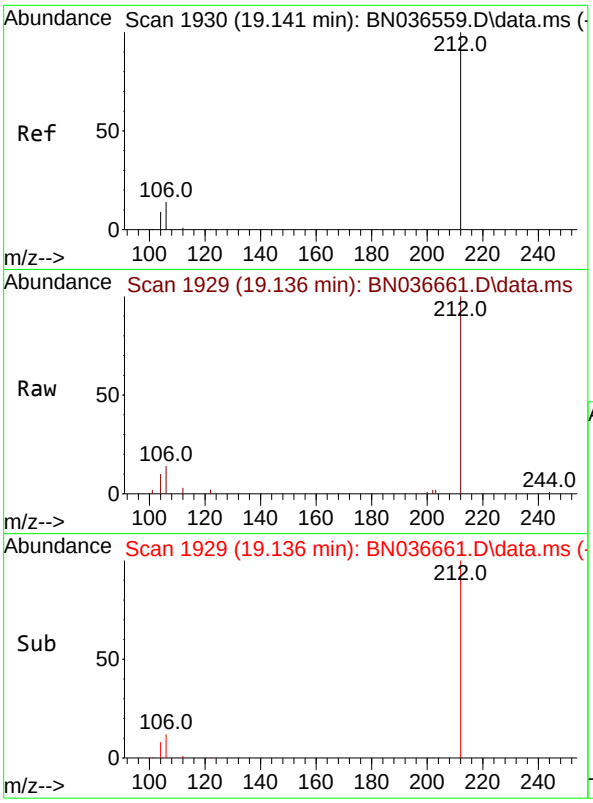


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:188 Resp: 4400

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.6	8.8	13.2#



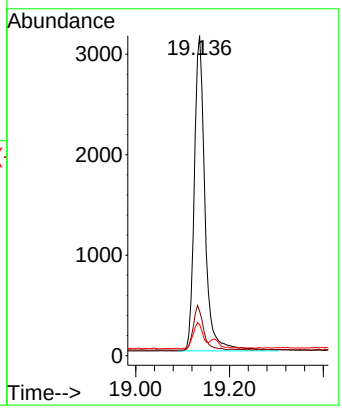


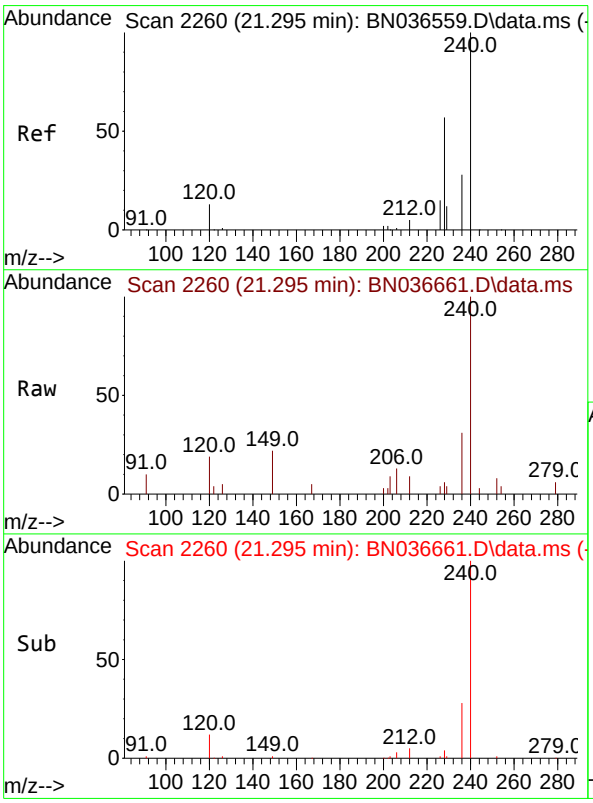
#27
Fluoranthene-d10
Concen: 0.441 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion:212 Resp: 4972

Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	7.9	7.3	10.9

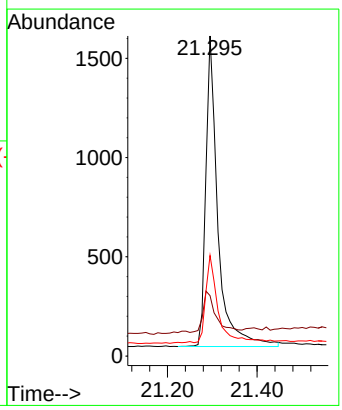


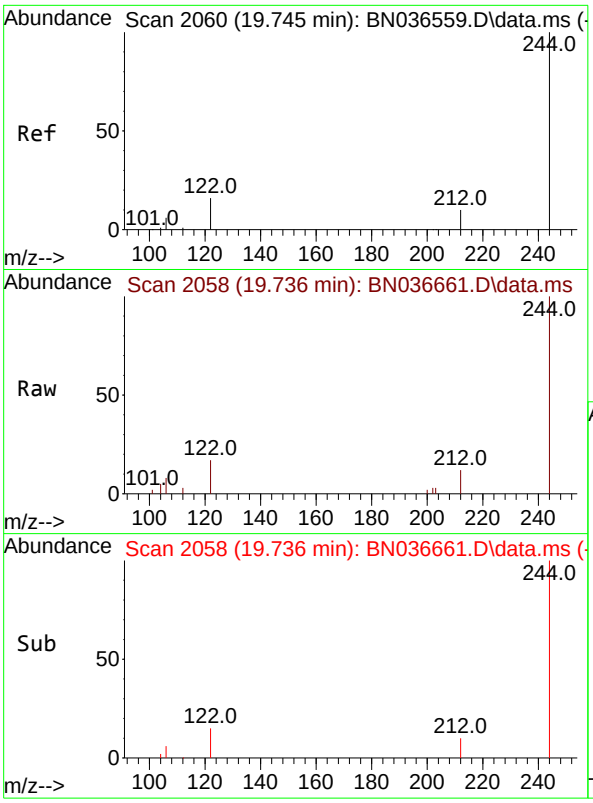


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:240 Resp: 2930

Ion	Ratio	Lower	Upper
240	100		
120	18.8	14.6	22.0
236	31.4	24.1	36.1



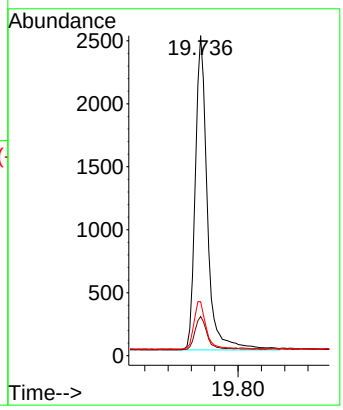


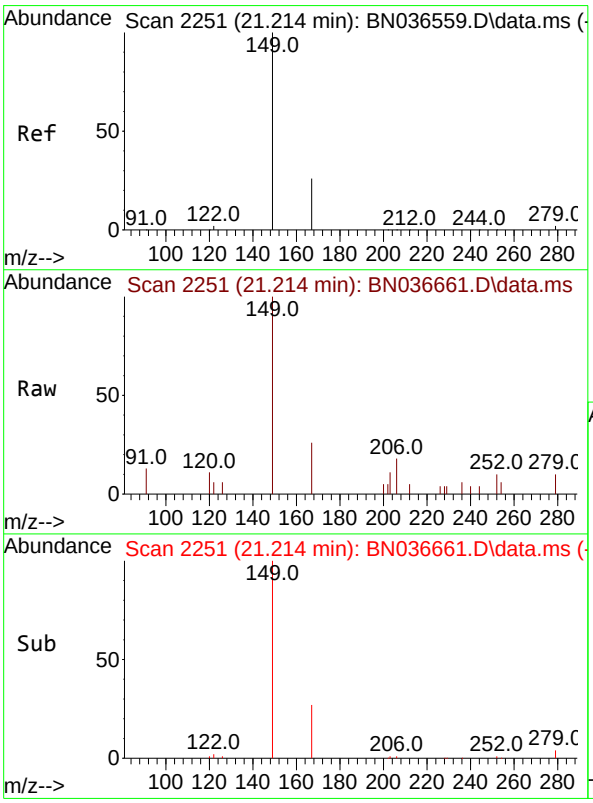
#31
Terphenyl-d14
Concen: 0.510 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion:244 Resp: 3579

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	16.9	13.9	20.9

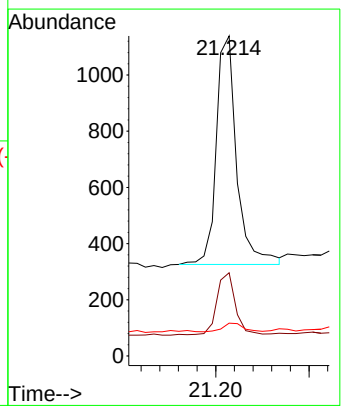


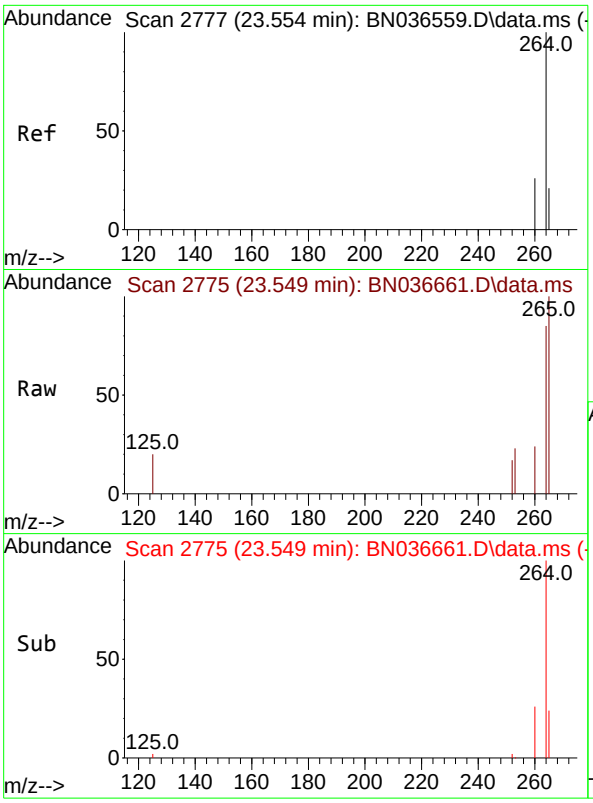


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.170 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Tgt Ion:149 Resp: 1231

Ion	Ratio	Lower	Upper
149	100		
167	24.3	20.7	31.1
279	3.9	3.6	5.4



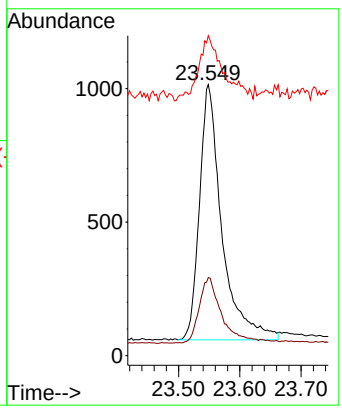


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.549 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036661.D
Acq: 17 Mar 2025 16:07

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313

Tgt Ion:264 Resp: 2432

Ion	Ratio	Lower	Upper
264	100		
260	28.8	22.6	33.8
265	118.0	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D2-20250313DL	SDG No.:	Q1582
Lab Sample ID:	Q1582-03DL	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
BN036679.D	2	03/17/25 08:48	03/18/25 03:40	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.00	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.24		53 - 106		59%	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	1630	7.717				
1146-65-2	Naphthalene-d8	3810	10.509				
15067-26-2	Acenaphthene-d10	2400	14.355				
1517-22-2	Phenanthrene-d10	4730	17.099				
1719-03-5	Chrysene-d12	3080	21.295				
1520-96-3	Perylene-d12	2490	23.545				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036679.D
Acq On : 18 Mar 2025 03:40
Operator : RC/JU
Sample : Q1582-03DL 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Quant Time: Mar 18 04:19:33 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

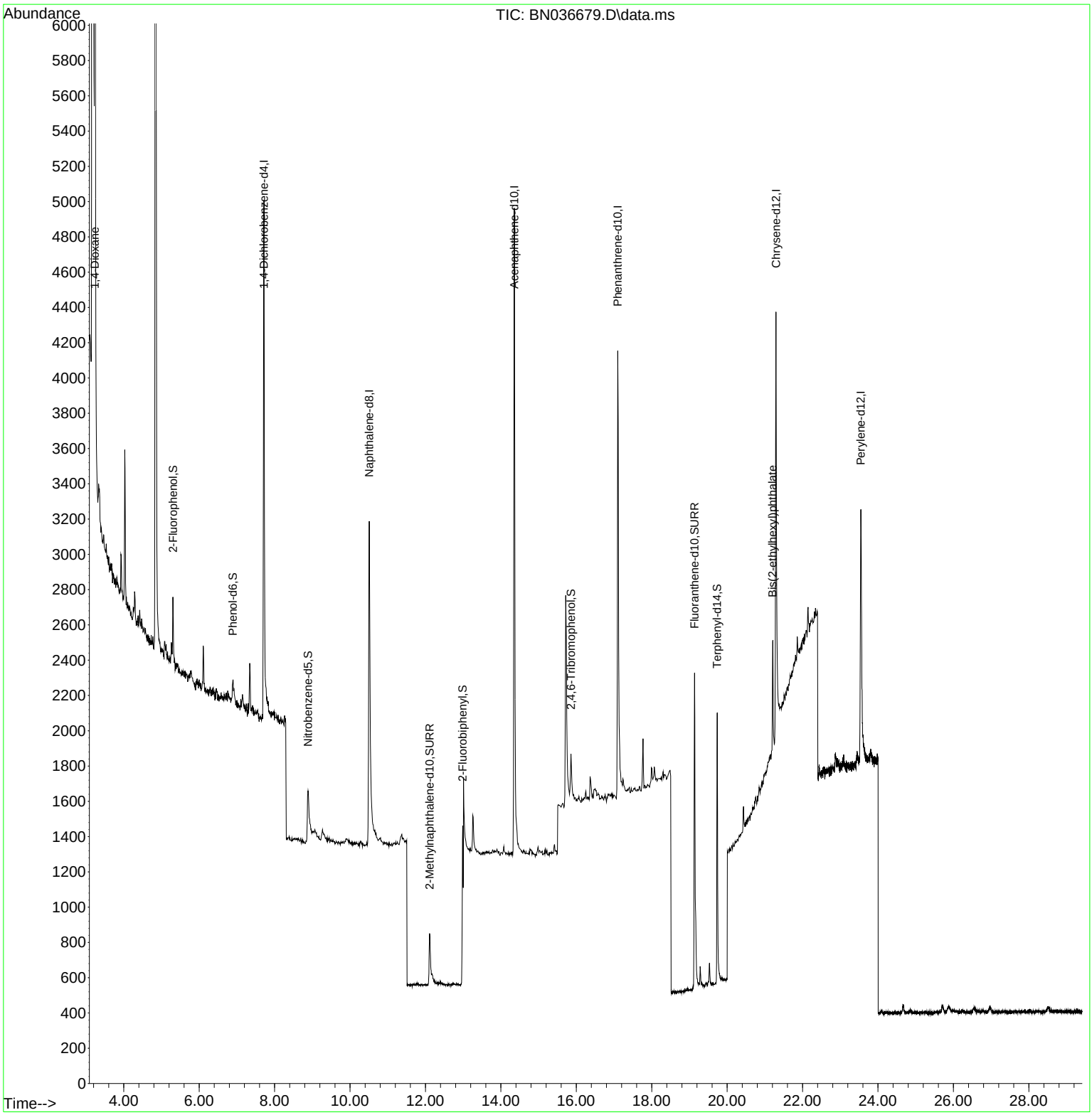
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	1626	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	3810	0.400	ng		0.00
13) Acenaphthene-d10	14.355	164	2398	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	4730	0.400	ng		#-0.01
29) Chrysene-d12	21.295	240	3082	0.400	ng		0.00
35) Perylene-d12	23.545	264	2493	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	280	0.074	ng		0.00
5) Phenol-d6	6.894	99	195	0.042	ng		0.00
8) Nitrobenzene-d5	8.886	82	552	0.133	ng		0.01
11) 2-Methylnaphthalene-d10	12.111	152	730	0.129	ng		0.00
14) 2,4,6-Tribromophenol	15.858	330	193	0.177	ng		0.00
15) 2-Fluorobiphenyl	12.988	172	1653	0.118	ng		0.00
27) Fluoranthene-d10	19.136	212	2465	0.203	ng		0.00
31) Terphenyl-d14	19.736	244	1748	0.237	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.232	88	4516	2.504	ng		95
34) Bis(2-ethylhexyl)phtha...	21.205	149	739	0.097	ng	#	96

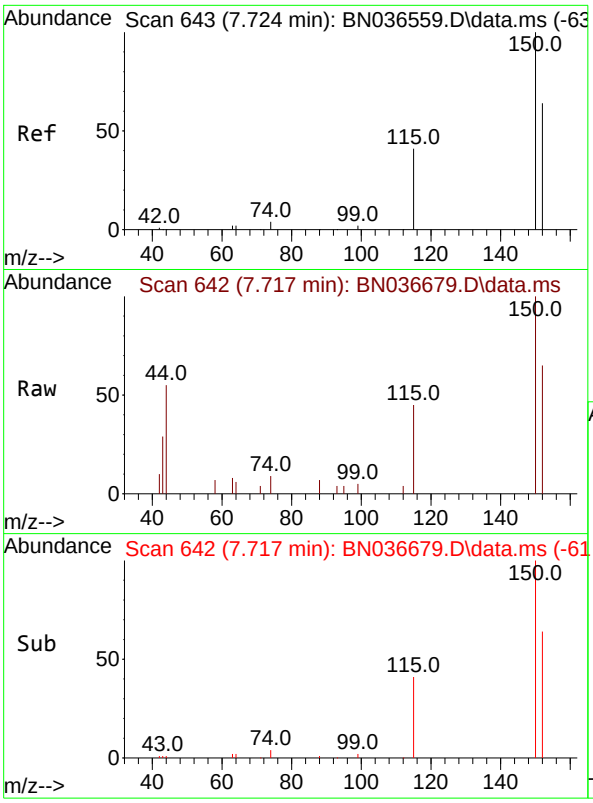
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036679.D
Acq On : 18 Mar 2025 03:40
Operator : RC/JU
Sample : Q1582-03DL 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Quant Time: Mar 18 04:19:33 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



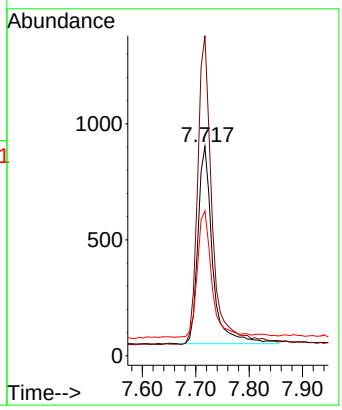


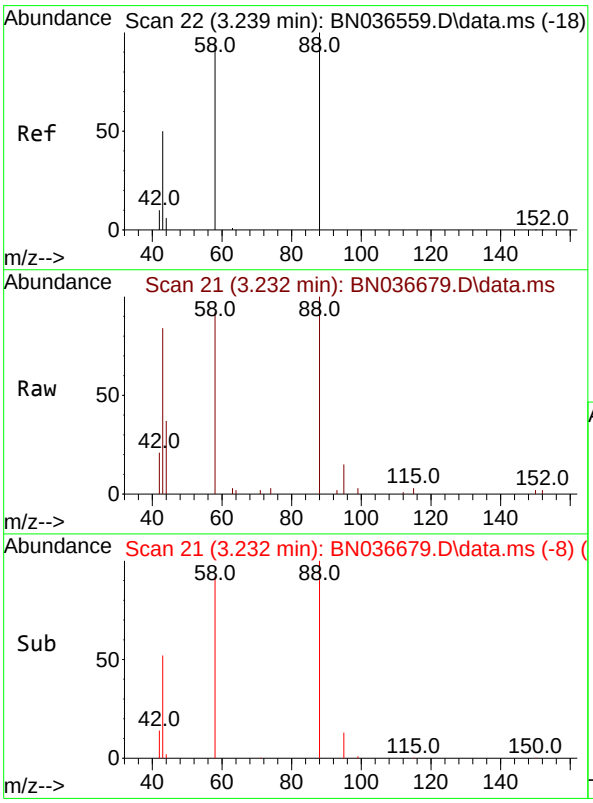
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:152 Resp: 1626

Ion	Ratio	Lower	Upper
152	100		
150	153.0	123.7	185.5
115	69.3	54.3	81.5

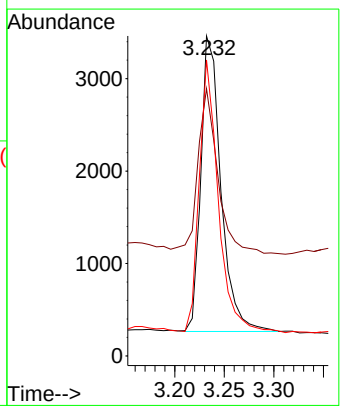


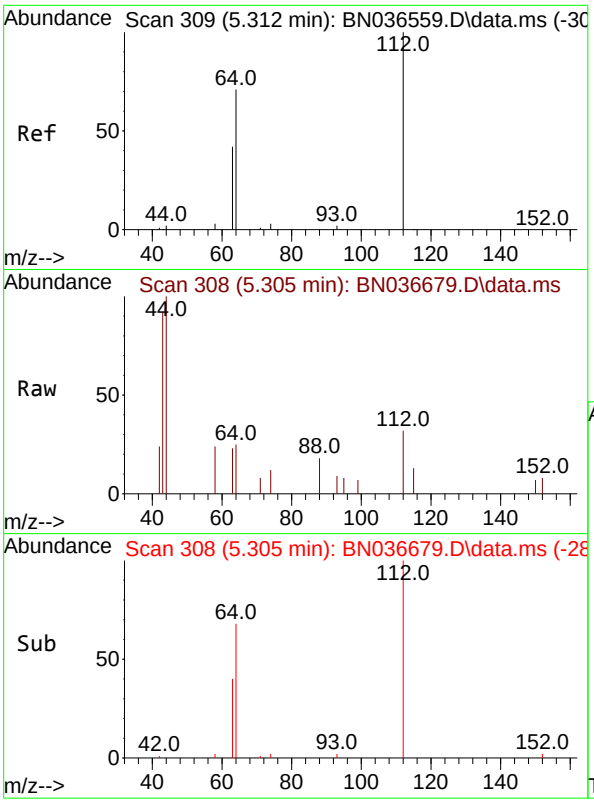


#2
1,4-Dioxane
Concen: 2.504 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion: 88 Resp: 4516

Ion	Ratio	Lower	Upper
88	100		
43	55.2	37.8	56.8
58	85.7	67.4	101.2



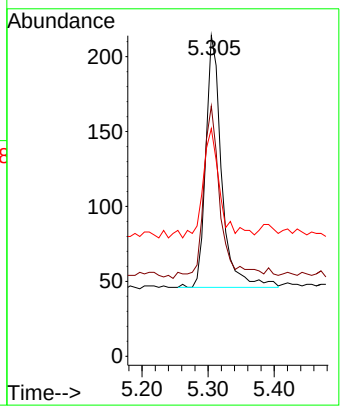


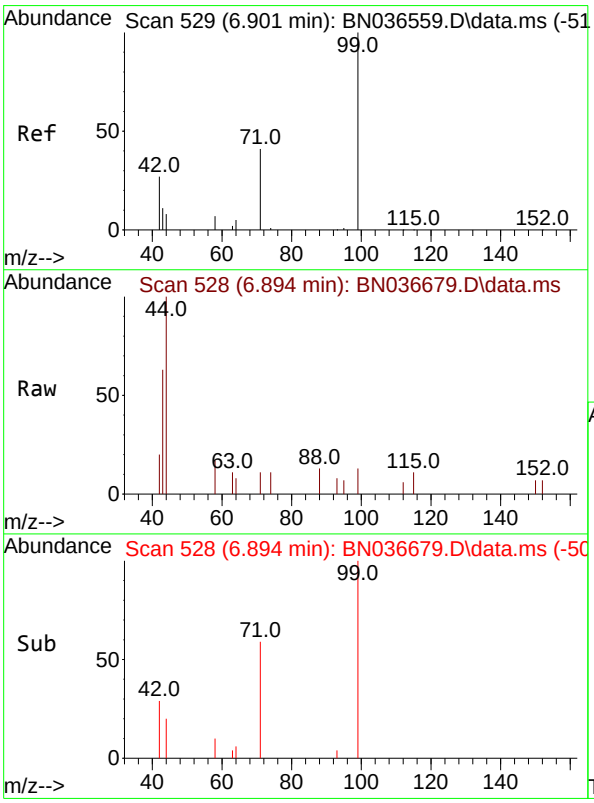
#4
2-Fluorophenol
Concen: 0.074 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:112 Resp: 280

Ion	Ratio	Lower	Upper
112	100		
64	72.9	53.1	79.7
63	46.1	31.8	47.8

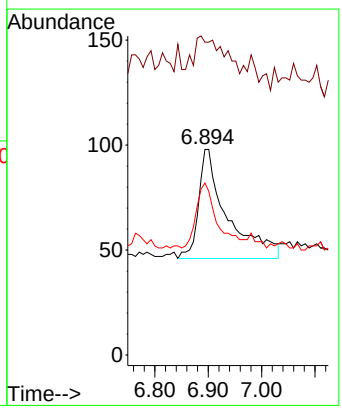


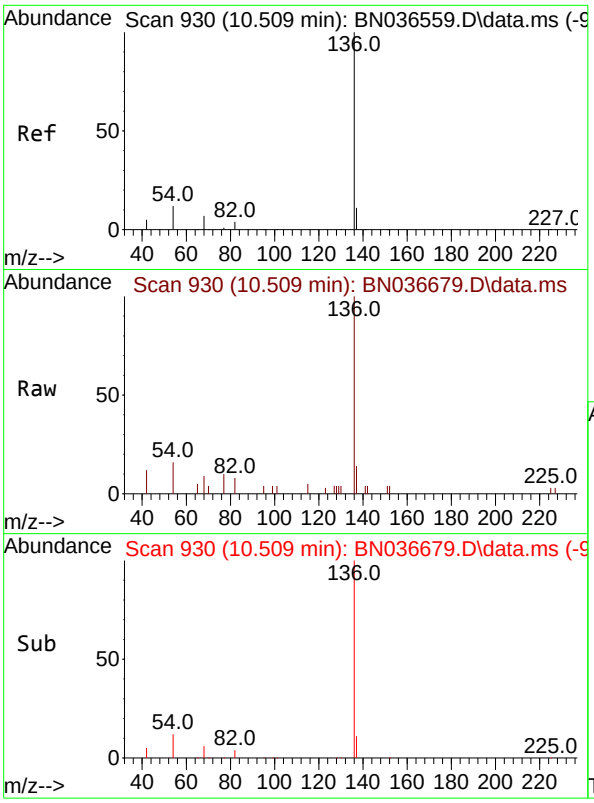


#5
Phenol-d6
Concen: 0.042 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion: 99 Resp: 195

Ion	Ratio	Lower	Upper
99	100		
42	33.3	26.5	39.7
71	44.1	34.1	51.1



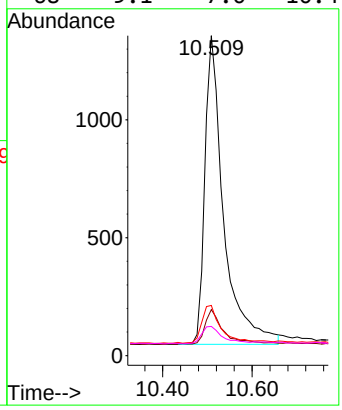


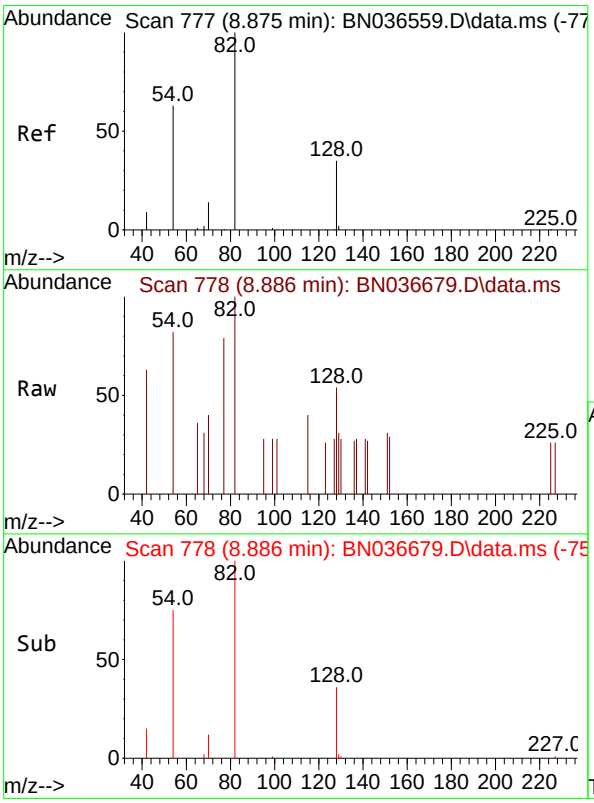
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:136 Resp: 3810

Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.3	15.5
54	15.7	11.5	17.3
68	9.1	7.0	10.4

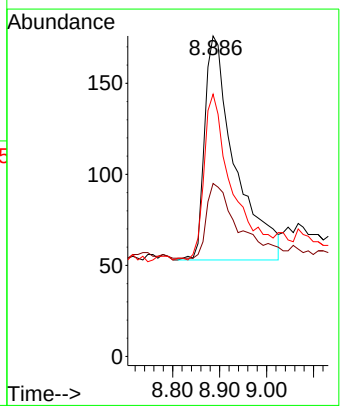


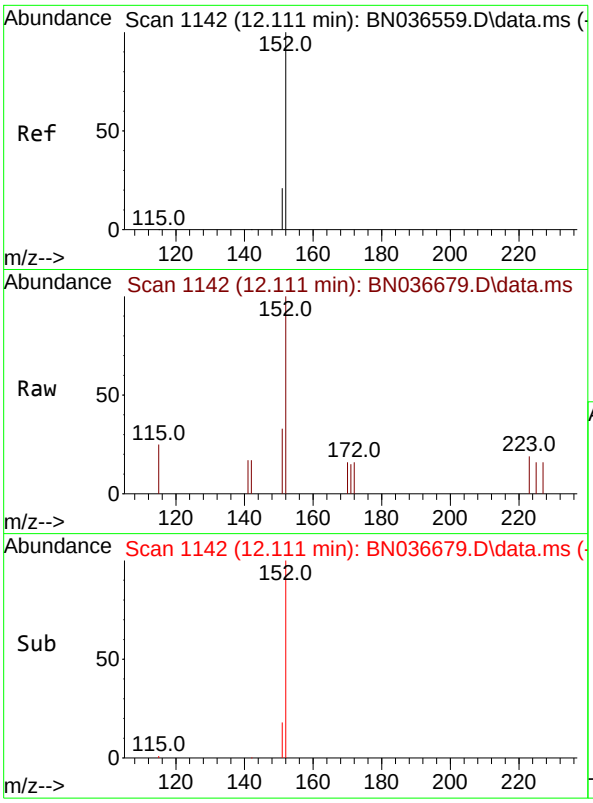


#8
Nitrobenzene-d5
Concen: 0.133 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion: 82 Resp: 552

Ion	Ratio	Lower	Upper
82	100		
128	54.0	30.6	45.8#
54	81.8	52.2	78.4#



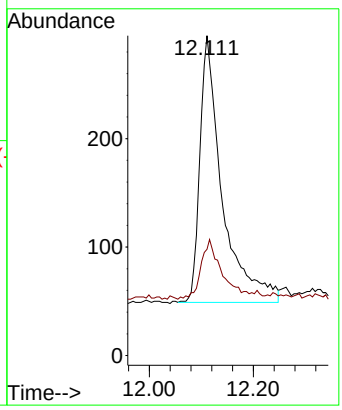


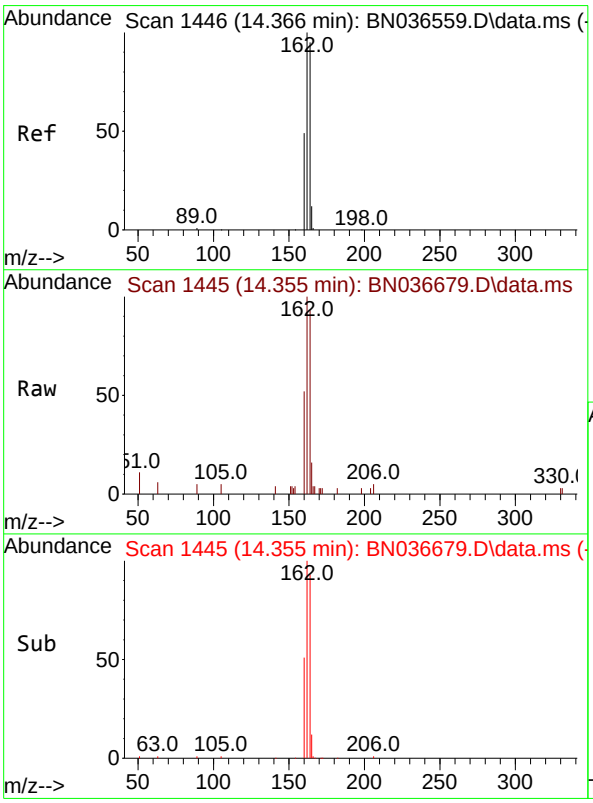
#11
2-Methylnaphthalene-d10
Concen: 0.129 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:152 Resp: 730

Ion	Ratio	Lower	Upper
152	100		
151	21.1	17.0	25.6

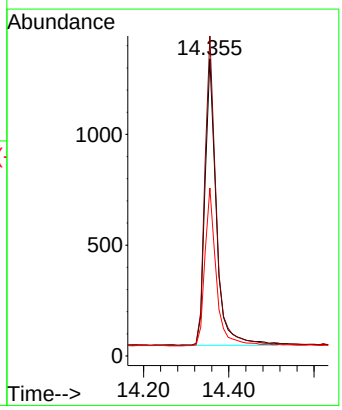


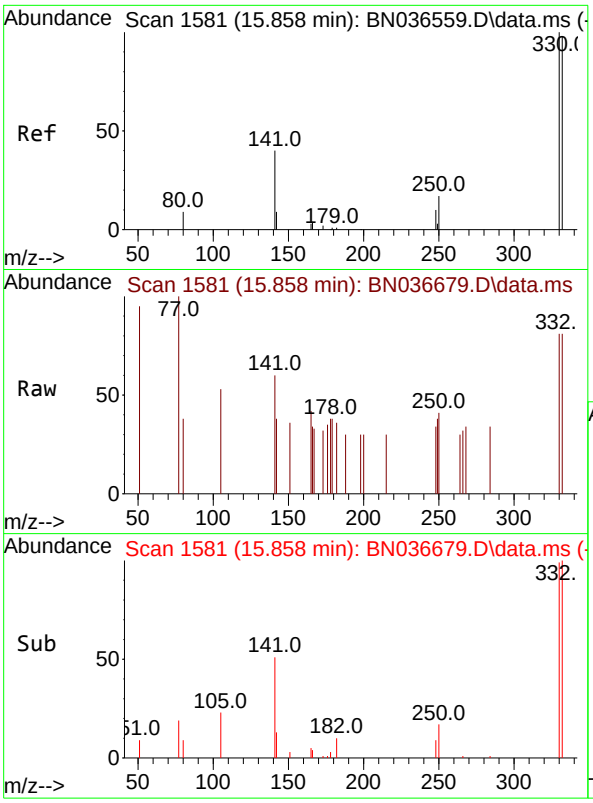


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:164 Resp: 2398

Ion	Ratio	Lower	Upper
164	100		
162	107.7	84.2	126.2
160	56.5	42.2	63.2



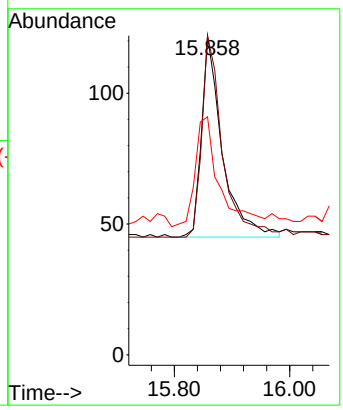


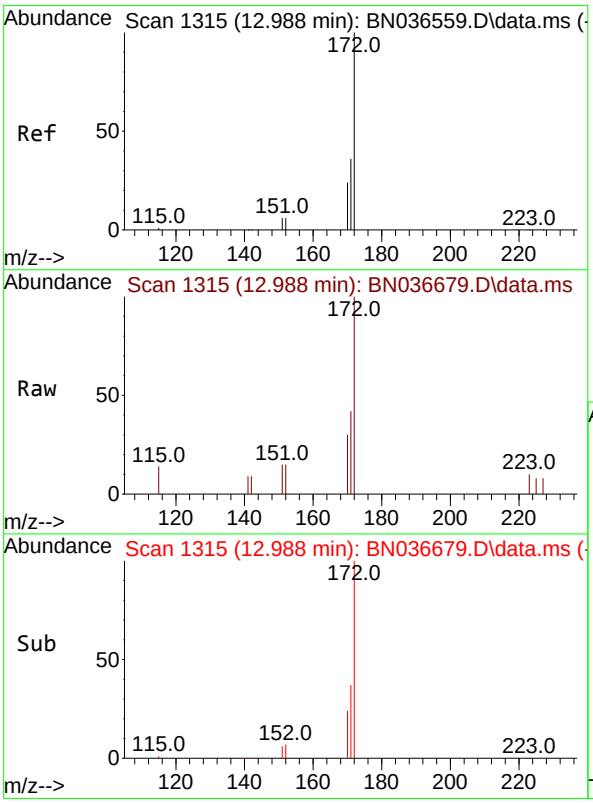
#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:330 Resp: 193

Ion	Ratio	Lower	Upper
330	100		
332	99.0	75.2	112.8
141	63.2	43.4	65.2

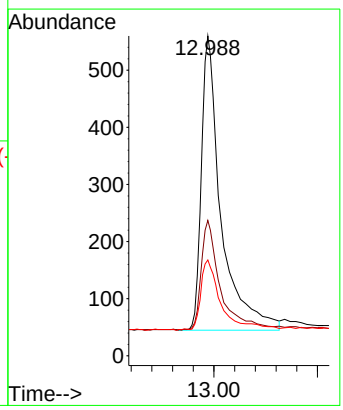


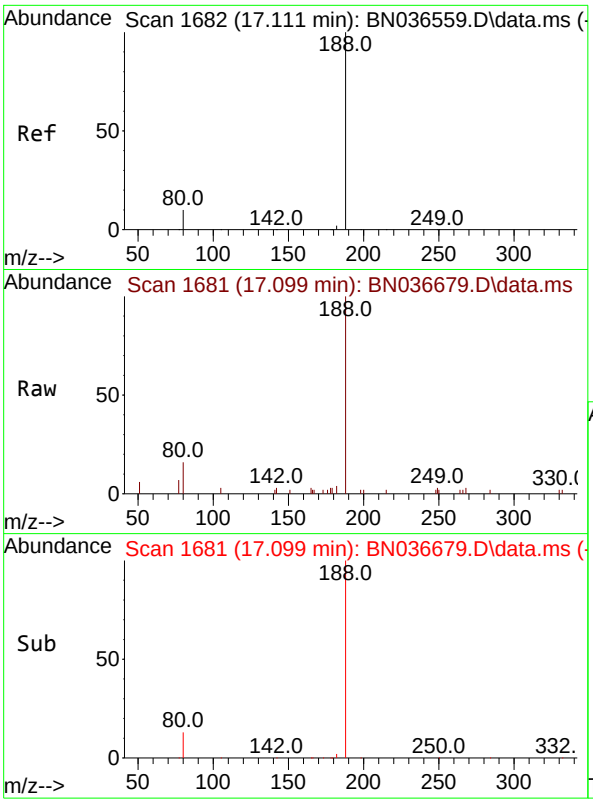


#15
2-Fluorobiphenyl
Concen: 0.118 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:172 Resp: 1653

Ion	Ratio	Lower	Upper
172	100		
171	42.3	29.5	44.3
170	30.0	20.2	30.4



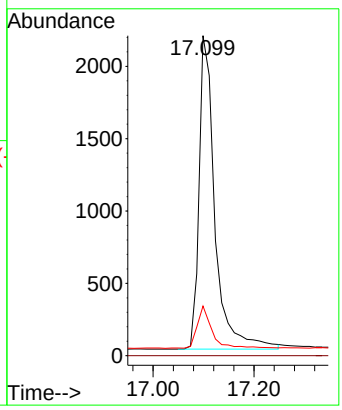


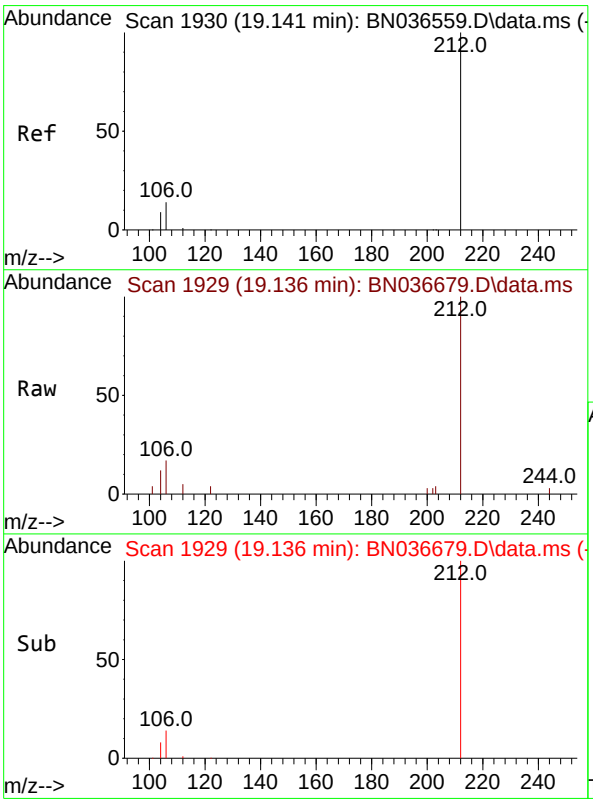
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:188 Resp: 4730

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.5	8.8	13.2#

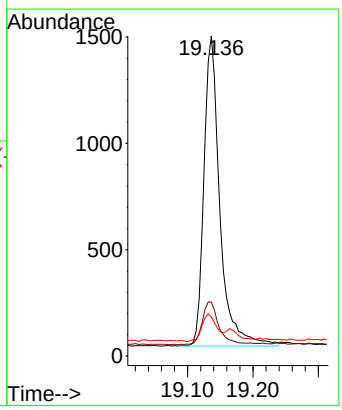


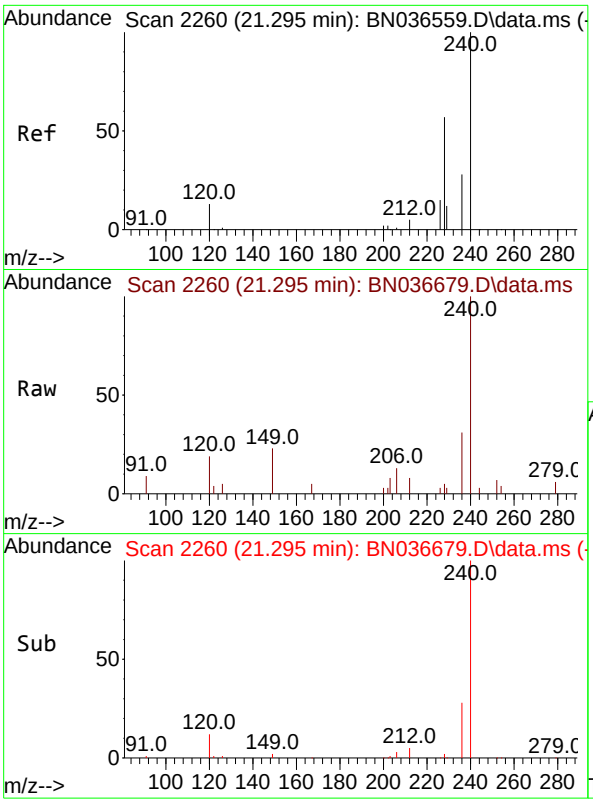


#27
Fluoranthene-d10
Concen: 0.203 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:212 Resp: 2465

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



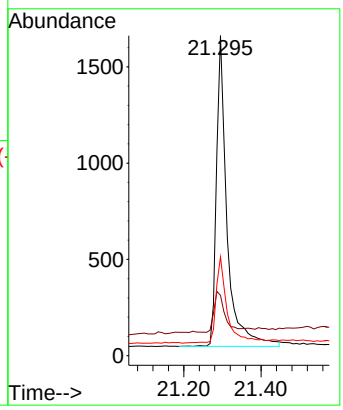


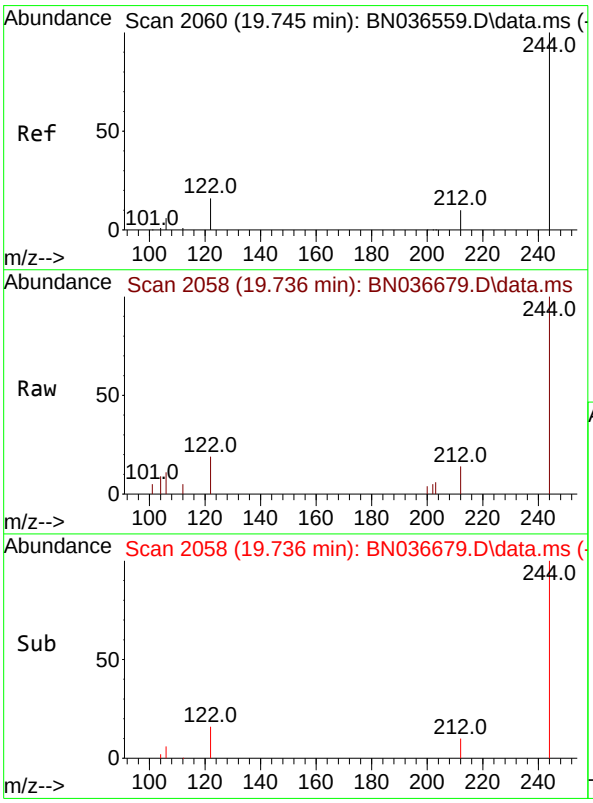
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:240 Resp: 3082

Ion	Ratio	Lower	Upper
240	100		
120	18.8	14.6	22.0
236	30.9	24.1	36.1

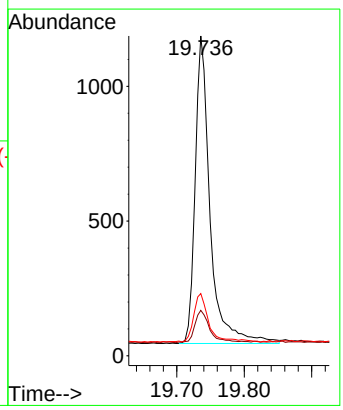


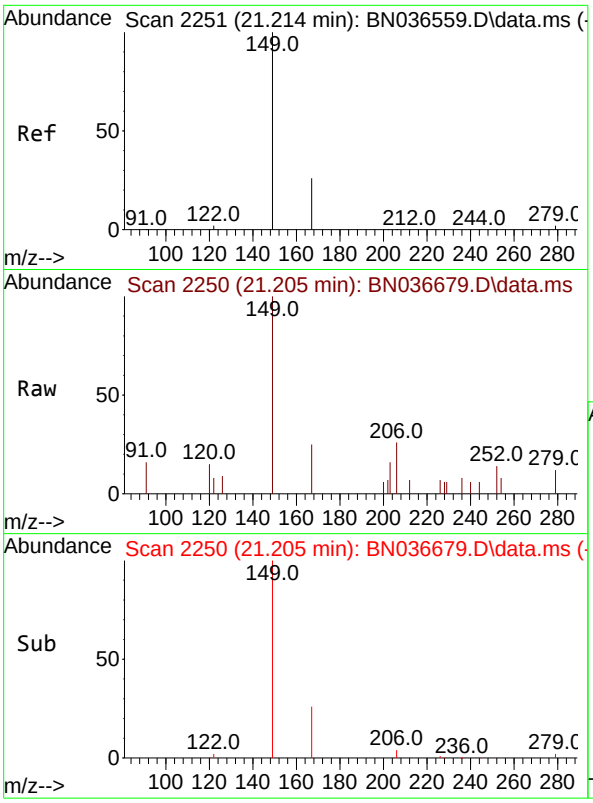


#31
Terphenyl-d14
Concen: 0.237 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:244 Resp: 1748

Ion	Ratio	Lower	Upper
244	100		
212	14.2	9.6	14.4
122	19.5	13.9	20.9



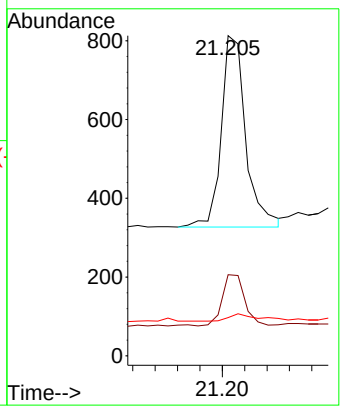


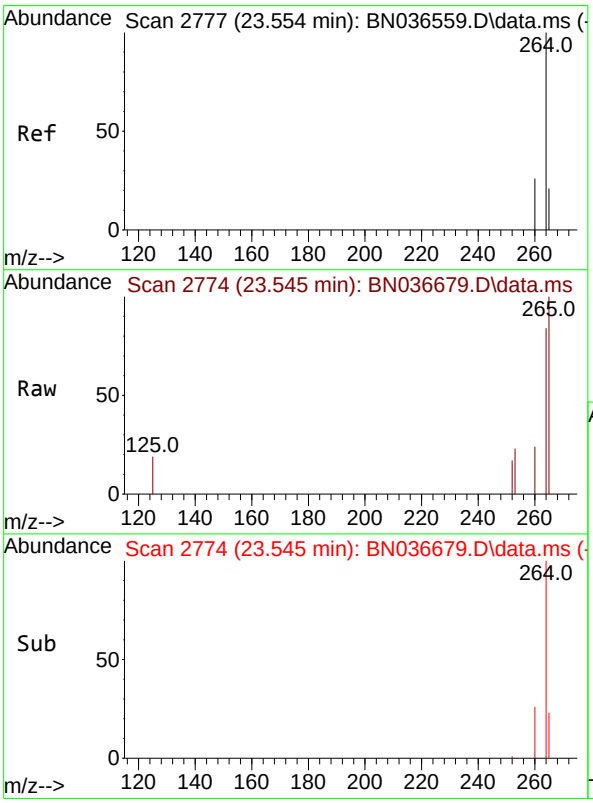
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Instrument :
BNA_N
ClientSampleId :
TT180D2-20250313DL

Tgt Ion:149 Resp: 739

Ion	Ratio	Lower	Upper
149	100		
167	23.5	20.7	31.1
279	5.5	3.6	5.4#

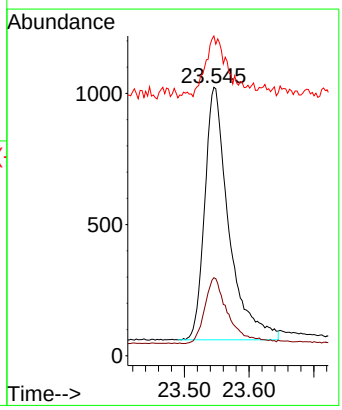




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.545 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036679.D
Acq: 18 Mar 2025 03:40

Tgt Ion:264 Resp: 2493

Ion	Ratio	Lower	Upper
264	100		
260	29.1	22.6	33.8
265	119.2	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-04	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
BN036662.D	1	03/17/25 08:48	03/17/25 16:43	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	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	1470	7.717				
1146-65-2	Naphthalene-d8	3490	10.509				
15067-26-2	Acenaphthene-d10	1970	14.355				
1517-22-2	Phenanthrene-d10	3400	17.099				
1719-03-5	Chrysene-d12	2380	21.295				
1520-96-3	Perylene-d12	2180	23.548				

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\BN031725\
Data File : BN036662.D
Acq On : 17 Mar 2025 16:43
Operator : RC/JU
Sample : Q1582-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Quant Time: Mar 17 17:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

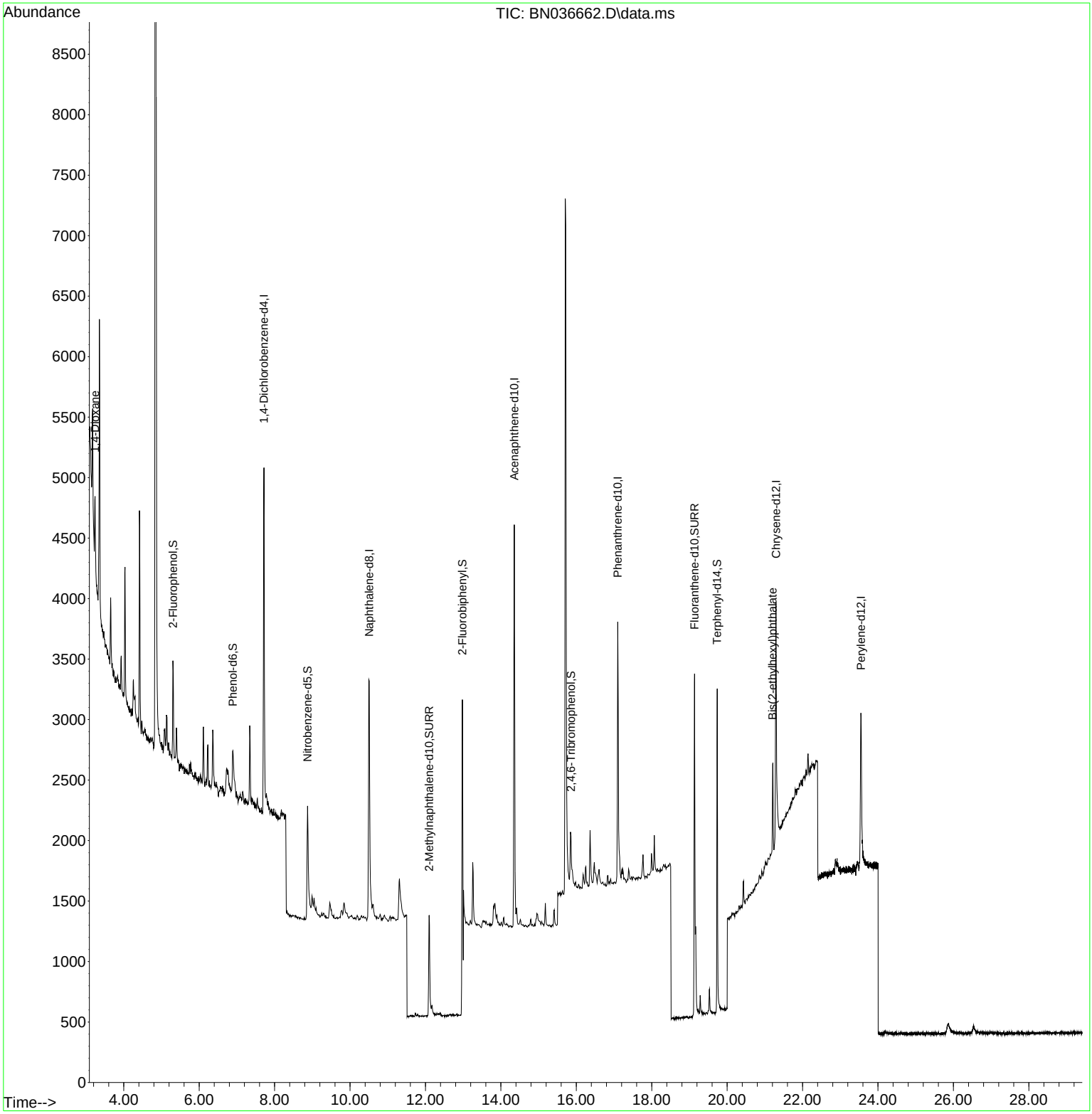
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1471	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3486	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	1974	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3397	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2382	0.400	ng	0.00
35) Perylene-d12	23.548	264	2179	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	592	0.173	ng	0.00
5) Phenol-d6	6.894	99	397	0.094	ng	0.00
8) Nitrobenzene-d5	8.875	82	1160	0.306	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1492	0.288	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	308	0.344	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	3792	0.330	ng	-0.01
27) Fluoranthene-d10	19.136	212	3548	0.408	ng	0.00
31) Terphenyl-d14	19.736	244	2614	0.458	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	319	0.195	ng	# 53
34) Bis(2-ethylhexyl)phtha...	21.205	149	896	0.152	ng	96

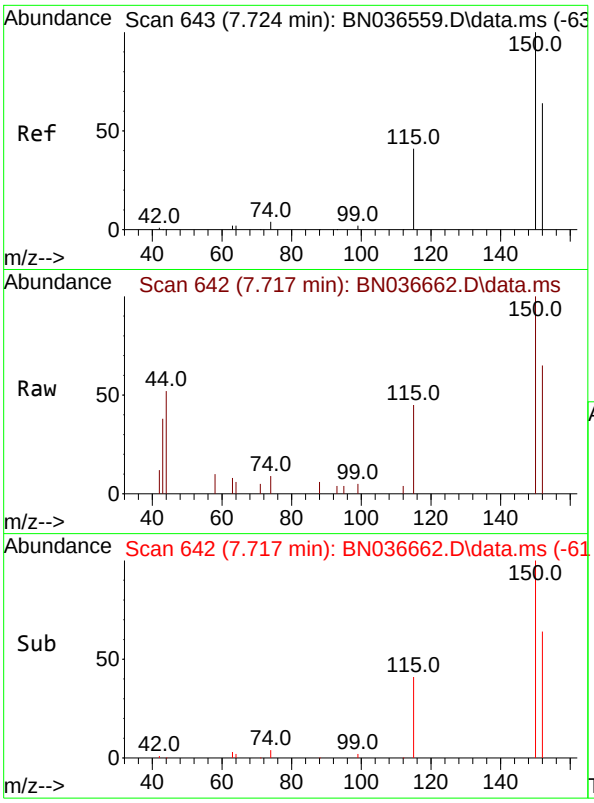
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036662.D
Acq On : 17 Mar 2025 16:43
Operator : RC/JU
Sample : Q1582-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Quant Time: Mar 17 17:51:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



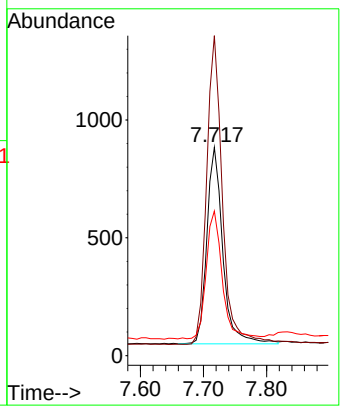


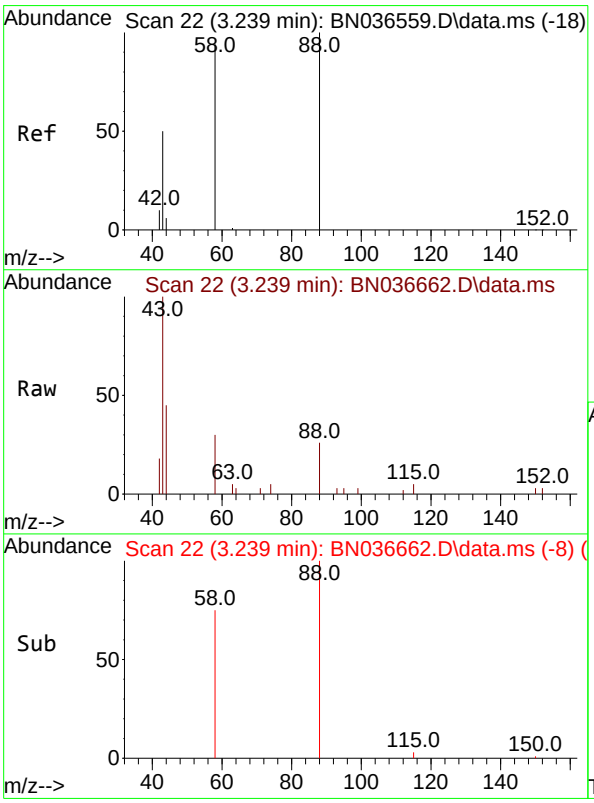
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Tgt Ion:152 Resp: 1471

Ion	Ratio	Lower	Upper
152	100		
150	153.6	123.7	185.5
115	69.5	54.3	81.5

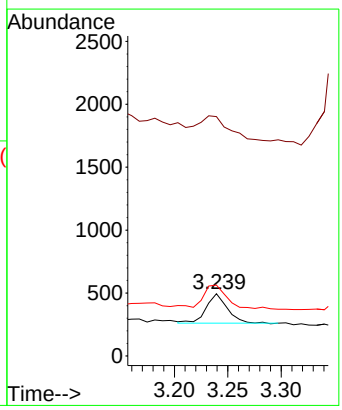


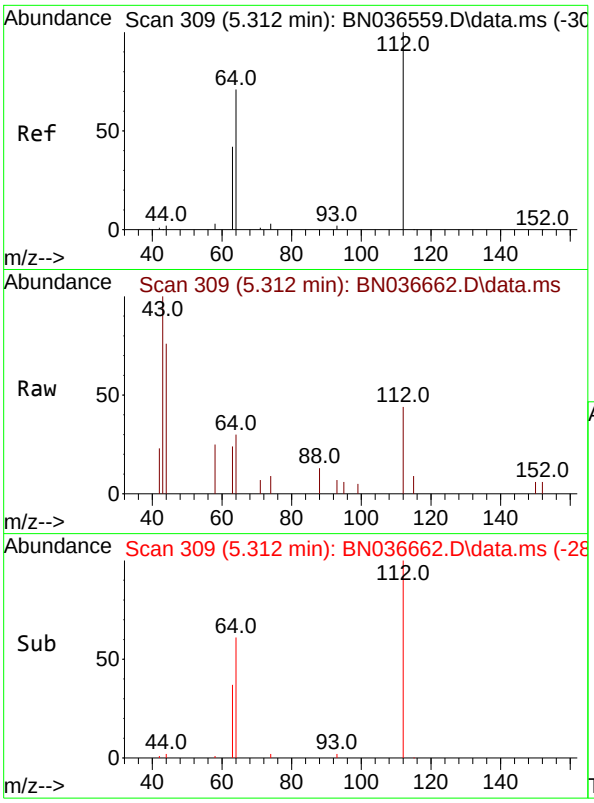


#2
1,4-Dioxane
Concen: 0.195 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion: 88 Resp: 319

Ion	Ratio	Lower	Upper
88	100		
43	120.7	37.8	56.8#
58	94.7	67.4	101.2



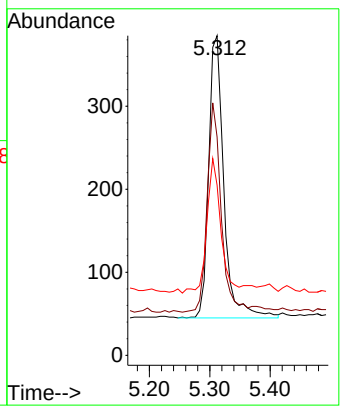


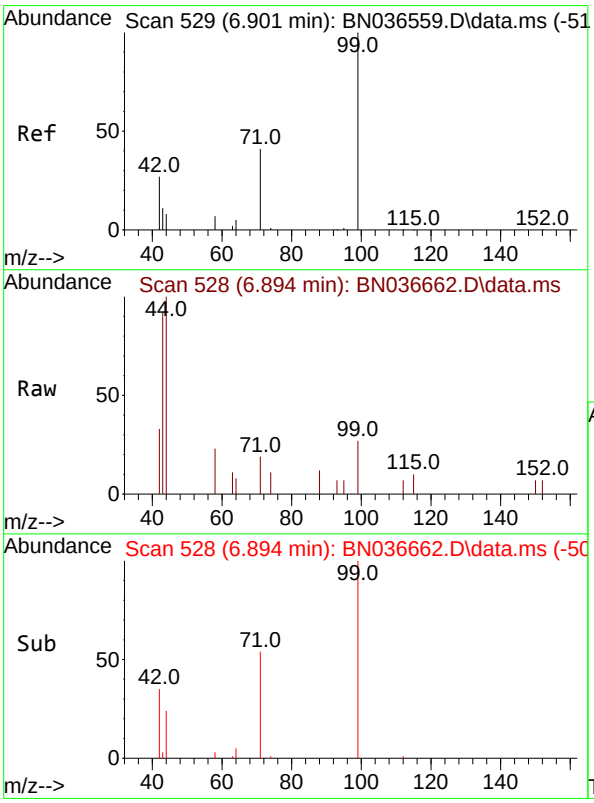
#4
2-Fluorophenol
Concen: 0.173 ng
RT: 5.312 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Tgt Ion:112 Resp: 592

Ion	Ratio	Lower	Upper
112	100		
64	70.3	53.1	79.7
63	43.4	31.8	47.8

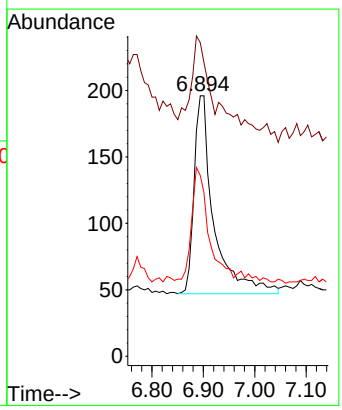


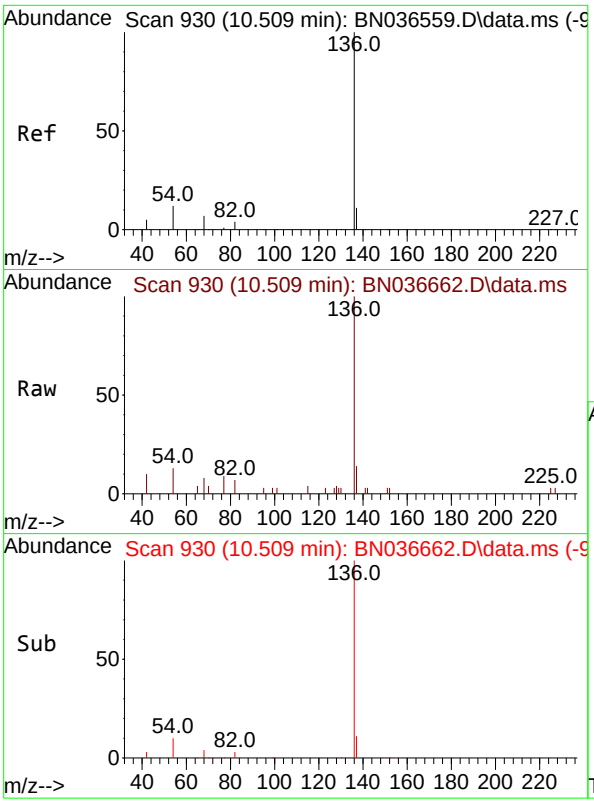


#5
Phenol-d6
Concen: 0.094 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion: 99 Resp: 397

Ion	Ratio	Lower	Upper
99	100		
42	30.2	26.5	39.7
71	48.1	34.1	51.1



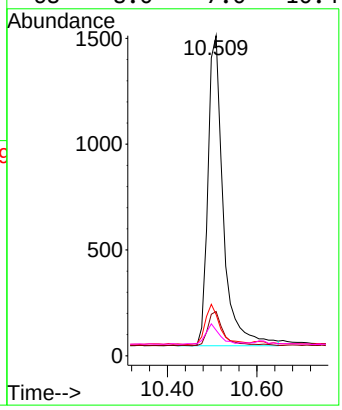


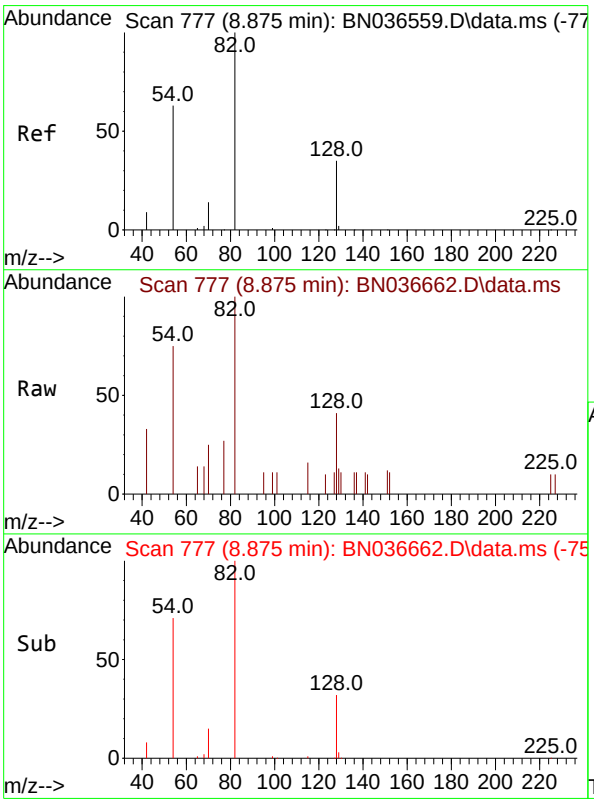
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Tgt Ion:136 Resp: 3486

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	12.9	11.5	17.3
68	8.0	7.0	10.4

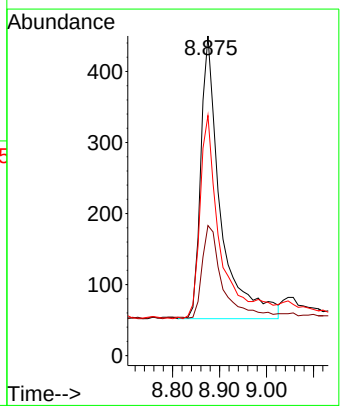


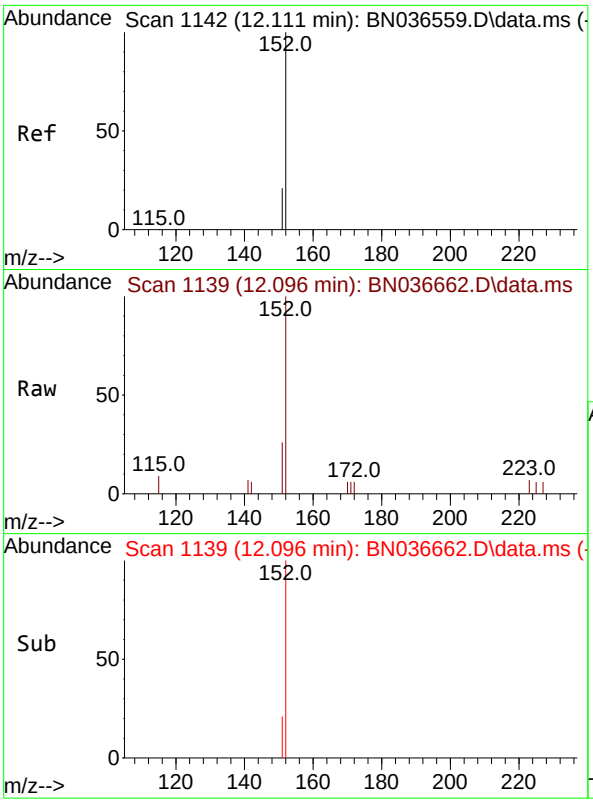


#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion: 82 Resp: 1160

Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	75.1	52.2	78.4



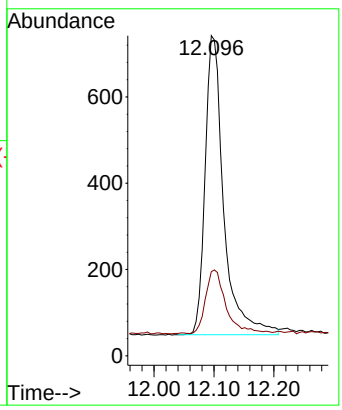


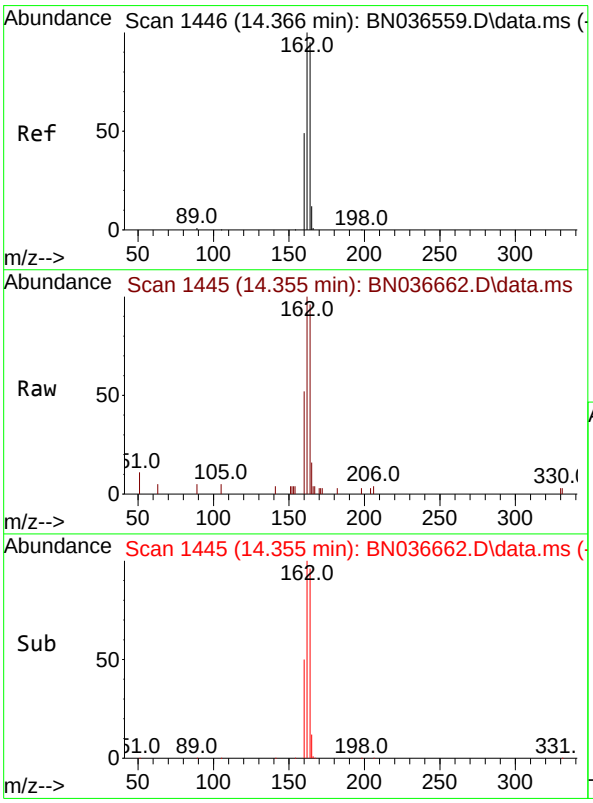
#11
2-Methylnaphthalene-d10
Concen: 0.288 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Tgt Ion:152 Resp: 1492

Ion	Ratio	Lower	Upper
152	100		
151	23.4	17.0	25.6

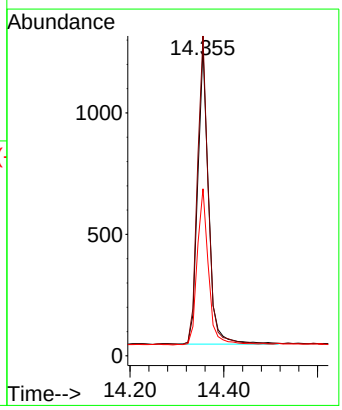


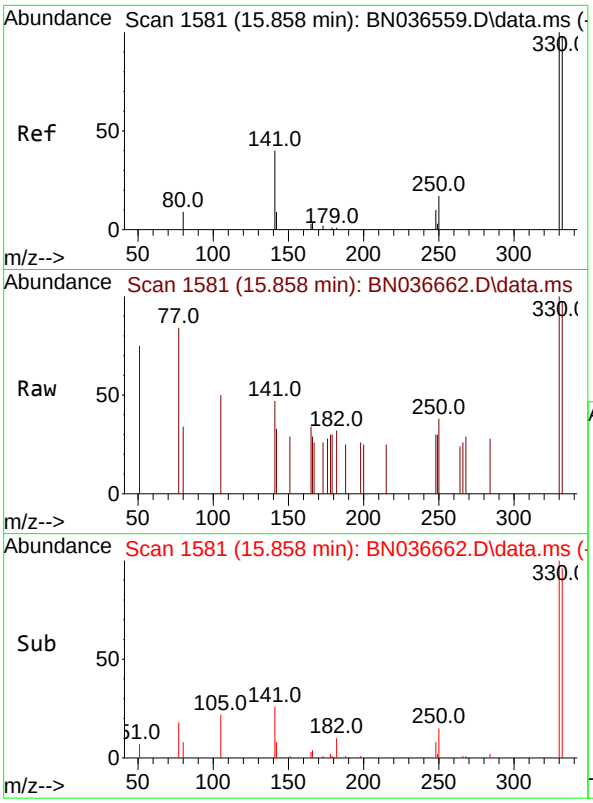


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion:164 Resp: 1974

Ion	Ratio	Lower	Upper
164	100		
162	103.9	84.2	126.2
160	54.3	42.2	63.2



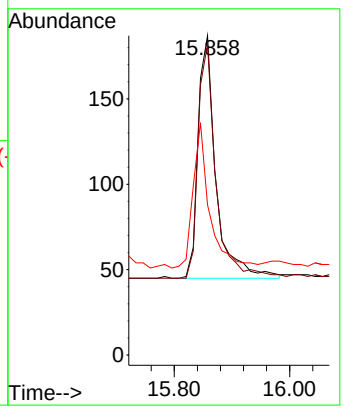


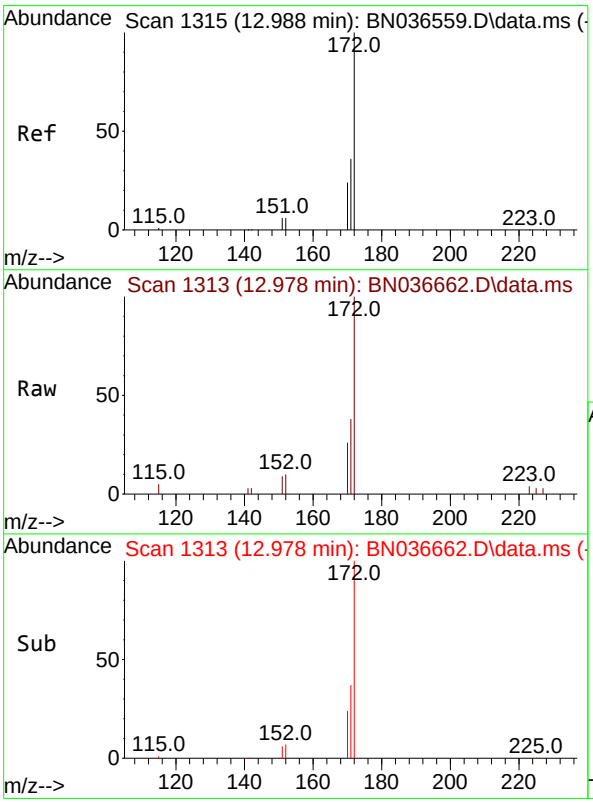
#14
2,4,6-Tribromophenol
Concen: 0.344 ng
RT: 15.858 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Tgt Ion:330 Resp: 308

Ion	Ratio	Lower	Upper
330	100		
332	95.1	75.2	112.8
141	54.5	43.4	65.2

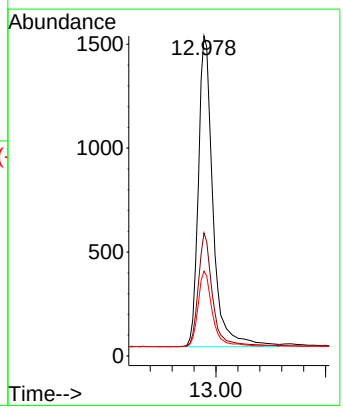


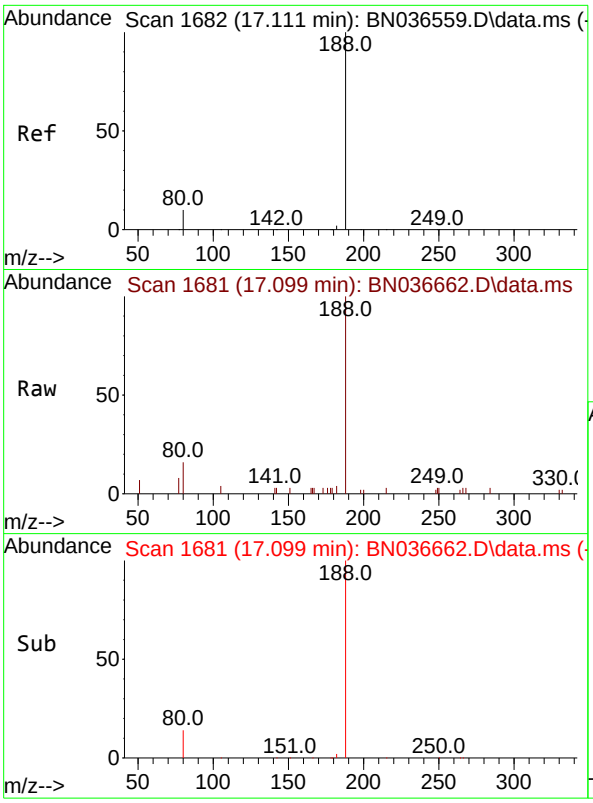


#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion:172 Resp: 3792

Ion	Ratio	Lower	Upper
172	100		
171	38.4	29.5	44.3
170	26.5	20.2	30.4



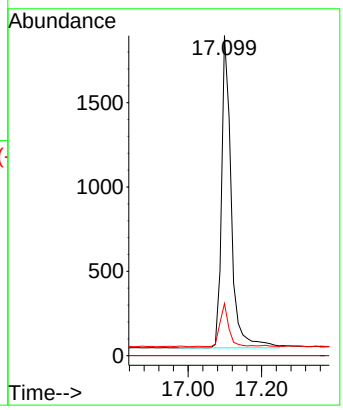


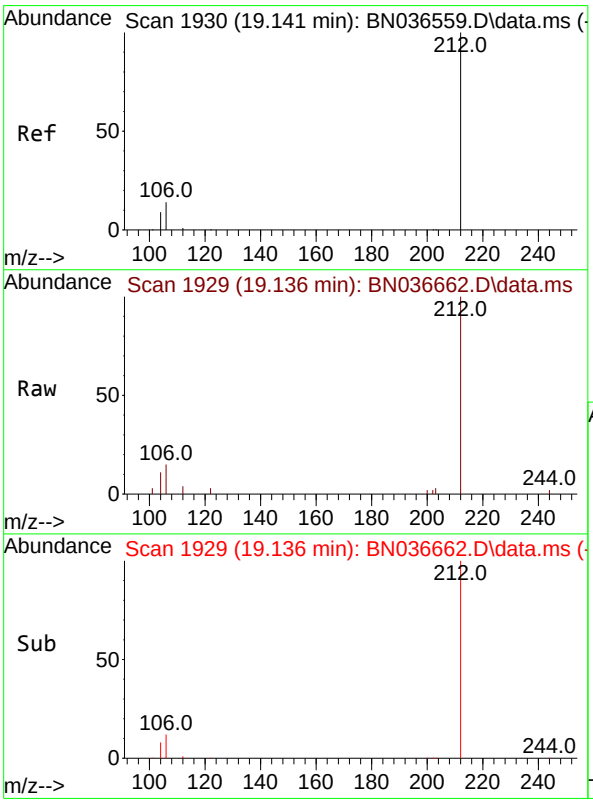
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Tgt Ion:188 Resp: 3397

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.3	8.8	13.2#

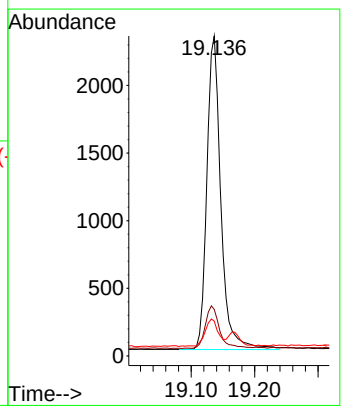


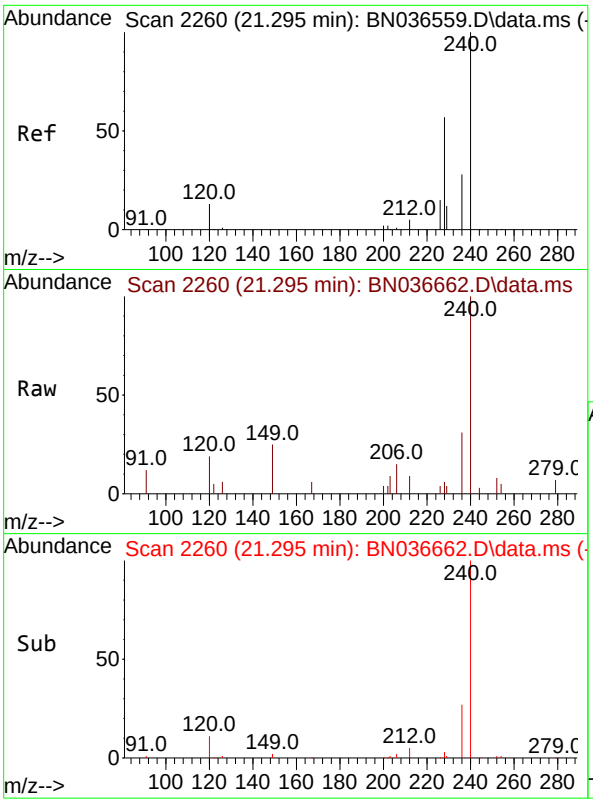


#27
Fluoranthene-d10
Concen: 0.408 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion:212 Resp: 3548

Ion	Ratio	Lower	Upper
212	100		
106	13.7	11.8	17.6
104	7.9	7.3	10.9



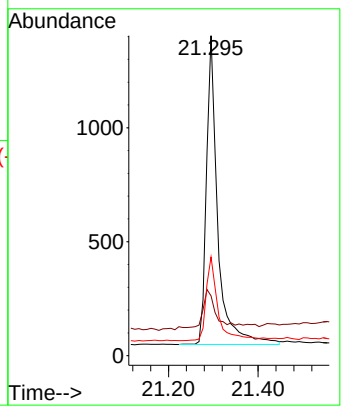


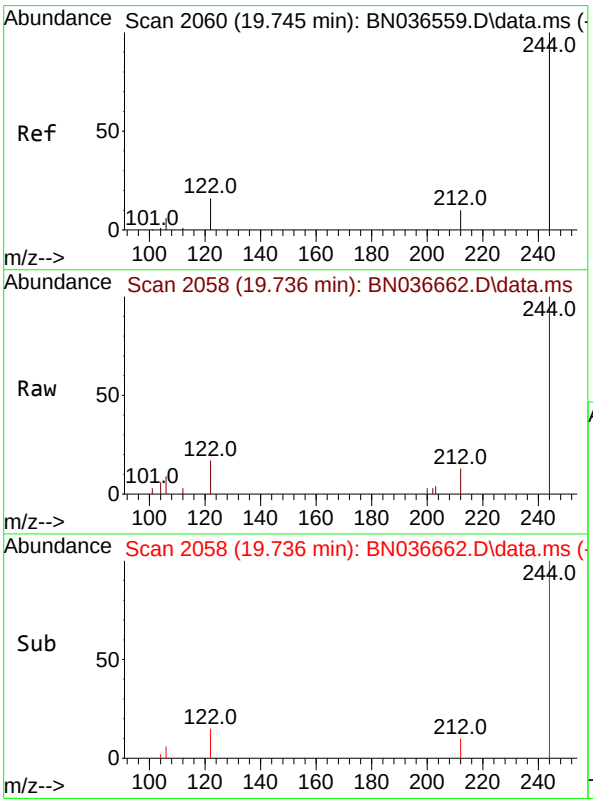
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Tgt Ion:240 Resp: 2382

Ion	Ratio	Lower	Upper
240	100		
120	18.7	14.6	22.0
236	30.8	24.1	36.1

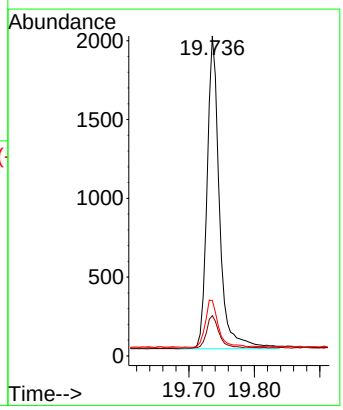


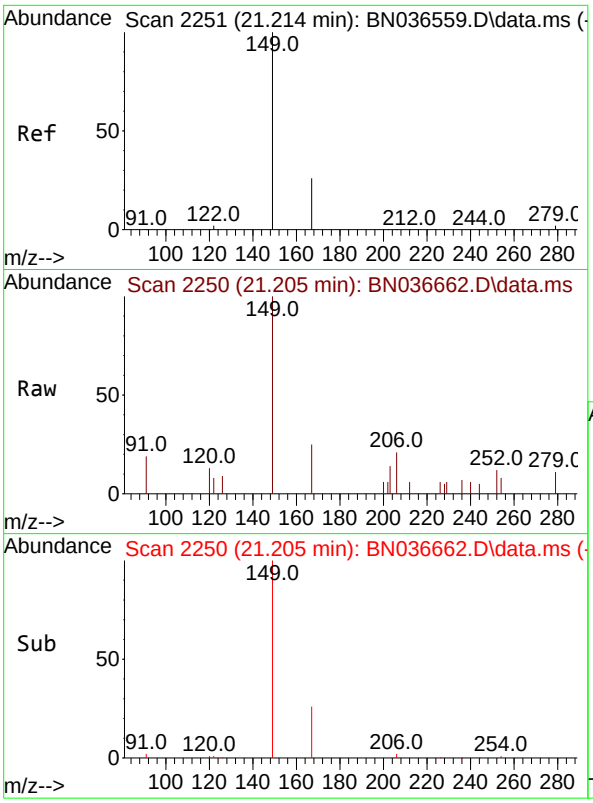


#31
Terphenyl-d14
Concen: 0.458 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion:244 Resp: 2614

Ion	Ratio	Lower	Upper
244	100		
212	12.6	9.6	14.4
122	17.3	13.9	20.9



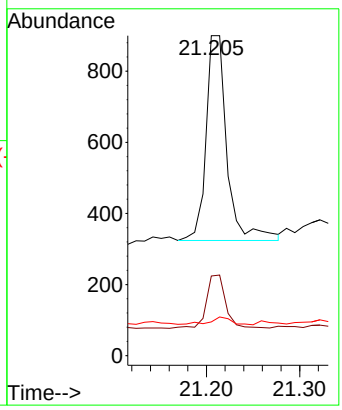


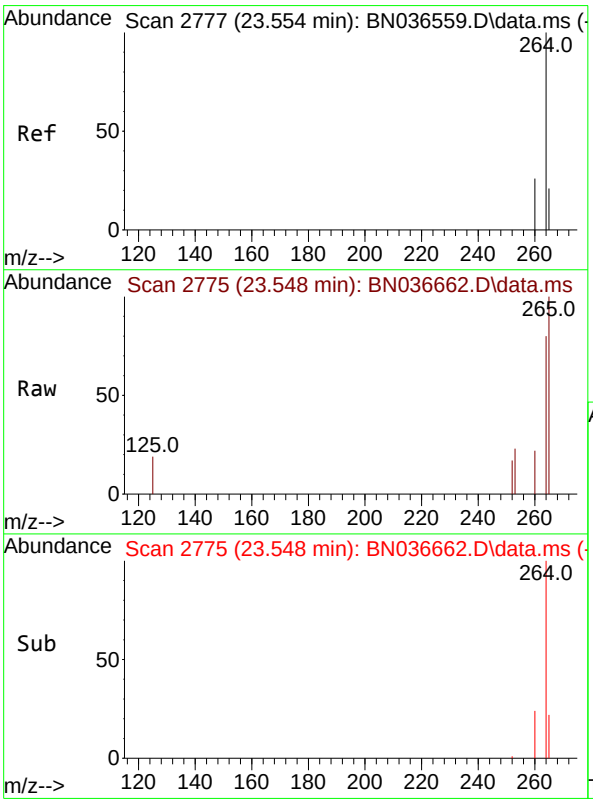
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.152 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Instrument :
BNA_N
ClientSampleId :
TT180D-20250313

Tgt Ion:149 Resp: 896

Ion	Ratio	Lower	Upper
149	100		
167	23.9	20.7	31.1
279	3.8	3.6	5.4

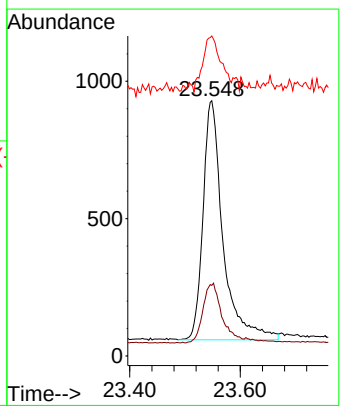




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.548 min Scan# 2775
Delta R.T. -0.006 min
Lab File: BN036662.D
Acq: 17 Mar 2025 16:43

Tgt Ion:264 Resp: 2179

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	125.4	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	FB02-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-05	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
BN036663.D	1	03/17/25 08:48	03/17/25 17:19	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		107%	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		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1550	7.717				
1146-65-2	Naphthalene-d8	3770	10.509				
15067-26-2	Acenaphthene-d10	2230	14.355				
1517-22-2	Phenanthrene-d10	4300	17.099				
1719-03-5	Chrysene-d12	2710	21.295				
1520-96-3	Perylene-d12	2310	23.548				

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\BN031725\
Data File : BN036663.D
Acq On : 17 Mar 2025 17:19
Operator : RC/JU
Sample : Q1582-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Quant Time: Mar 17 17:53:34 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

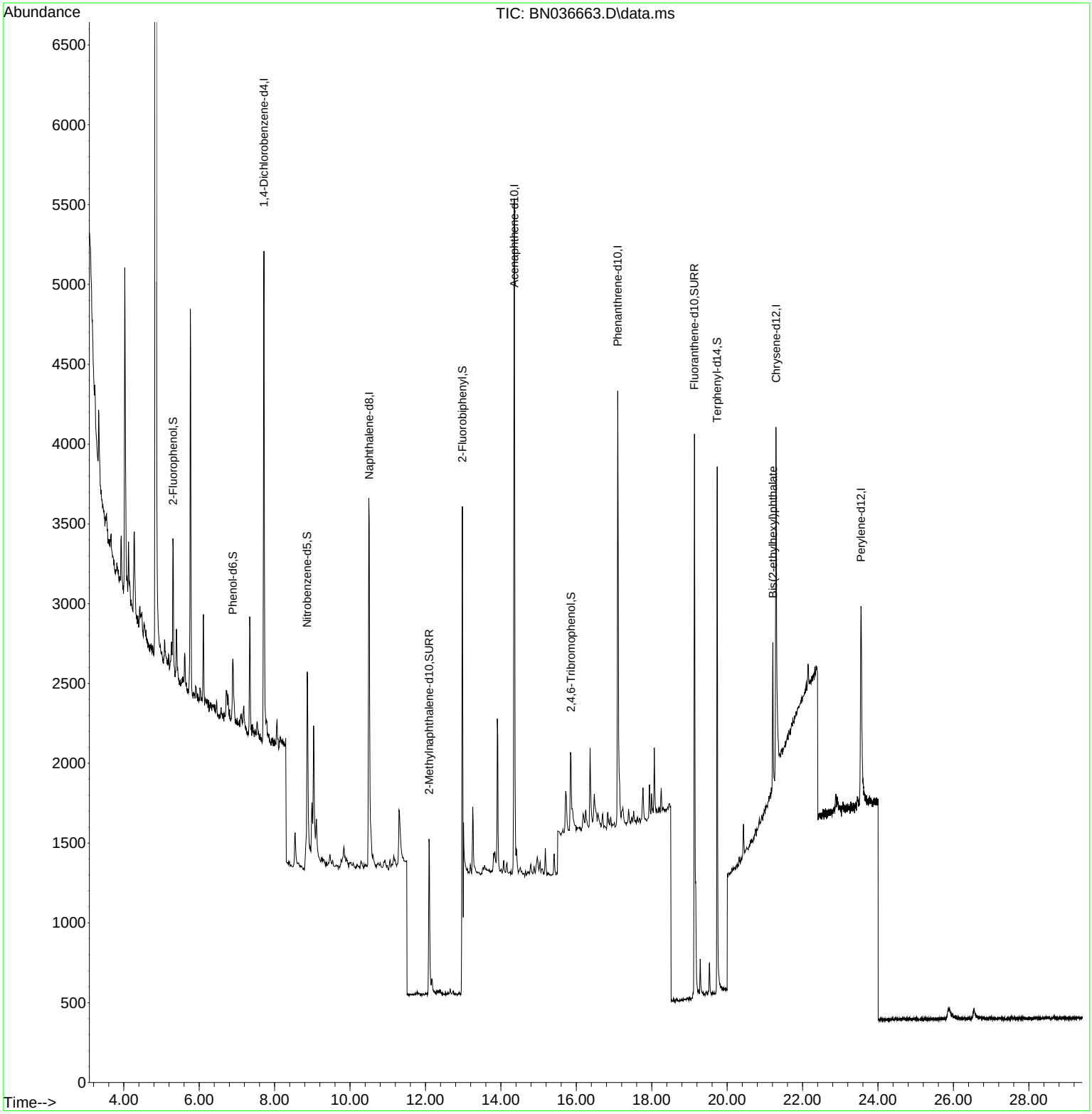
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1550	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3768	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2232	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4299	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2706	0.400	ng	0.00
35) Perylene-d12	23.548	264	2307	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	608	0.168	ng	0.00
5) Phenol-d6	6.894	99	417	0.093	ng	0.00
8) Nitrobenzene-d5	8.864	82	1306	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	12.095	152	1677	0.299	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	380	0.375	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4324	0.333	ng	-0.01
27) Fluoranthene-d10	19.132	212	4706	0.427	ng	0.00
31) Terphenyl-d14	19.736	244	3413	0.526	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.214	149	1025	0.153	ng	# 97

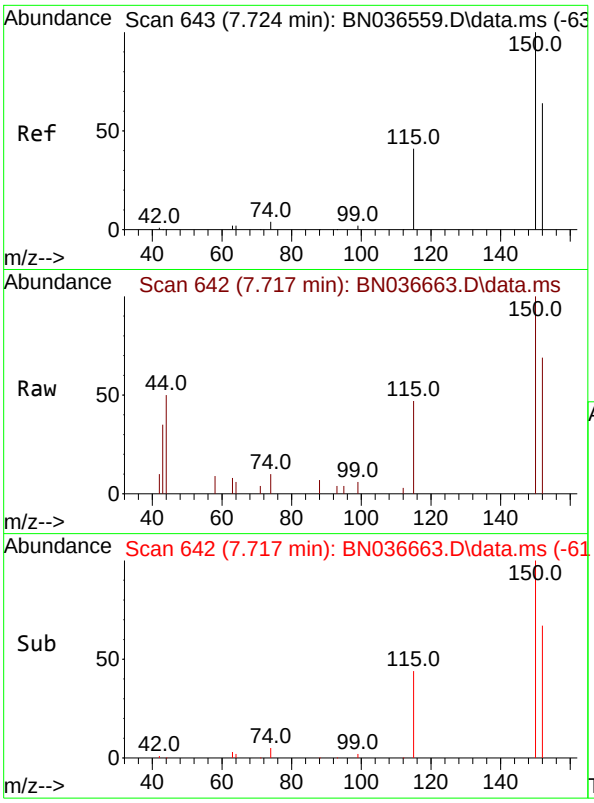
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036663.D
Acq On : 17 Mar 2025 17:19
Operator : RC/JU
Sample : Q1582-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Quant Time: Mar 17 17:53:34 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



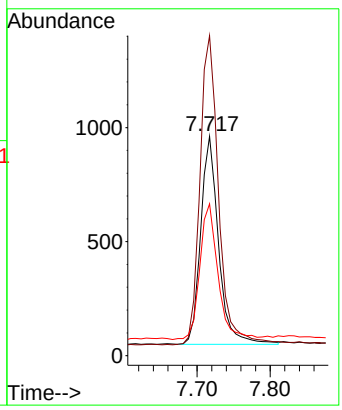


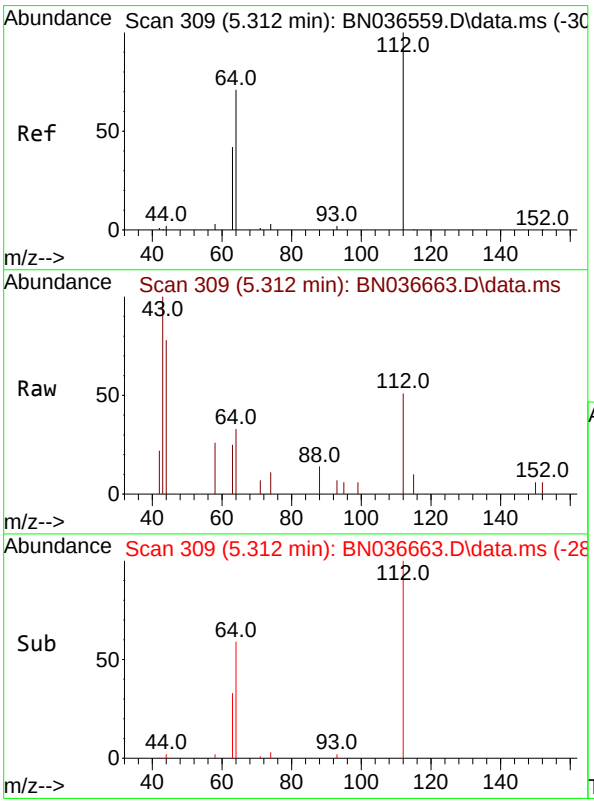
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Tgt Ion:152 Resp: 1550

Ion	Ratio	Lower	Upper
152	100		
150	145.8	123.7	185.5
115	69.2	54.3	81.5

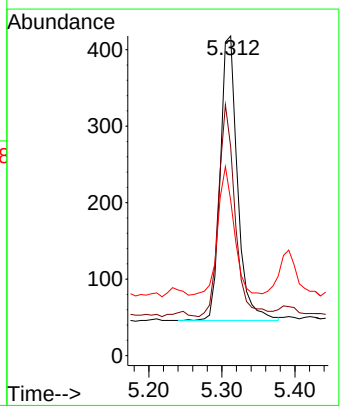


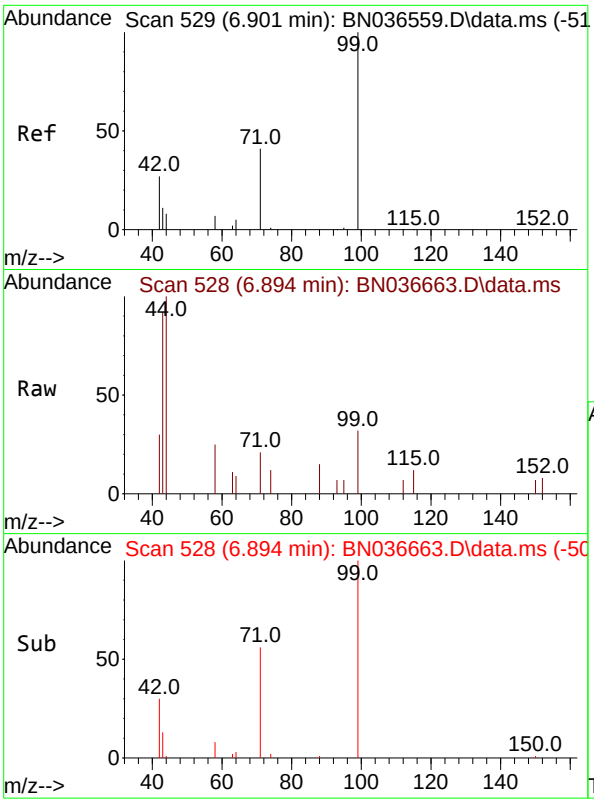


#4
2-Fluorophenol
Concen: 0.168 ng
RT: 5.312 min Scan# 309
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:112 Resp: 608

Ion	Ratio	Lower	Upper
112	100		
64	71.2	53.1	79.7
63	47.7	31.8	47.8



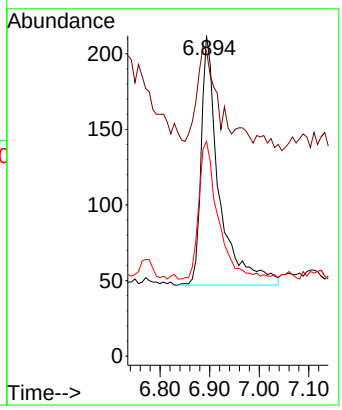


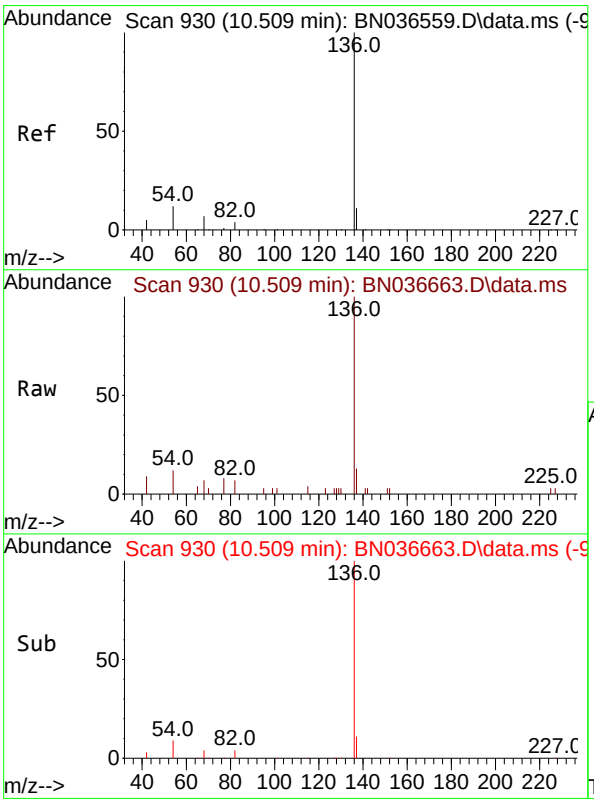
#5
Phenol-d6
Concen: 0.093 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Tgt Ion: 99 Resp: 417

Ion	Ratio	Lower	Upper
99	100		
42	38.6	26.5	39.7
71	59.5	34.1	51.1#

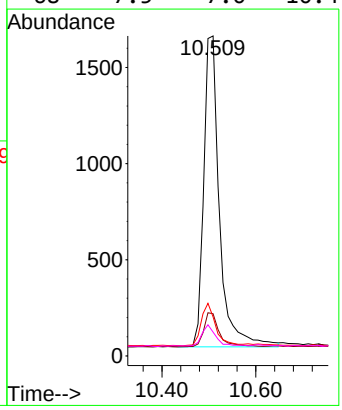


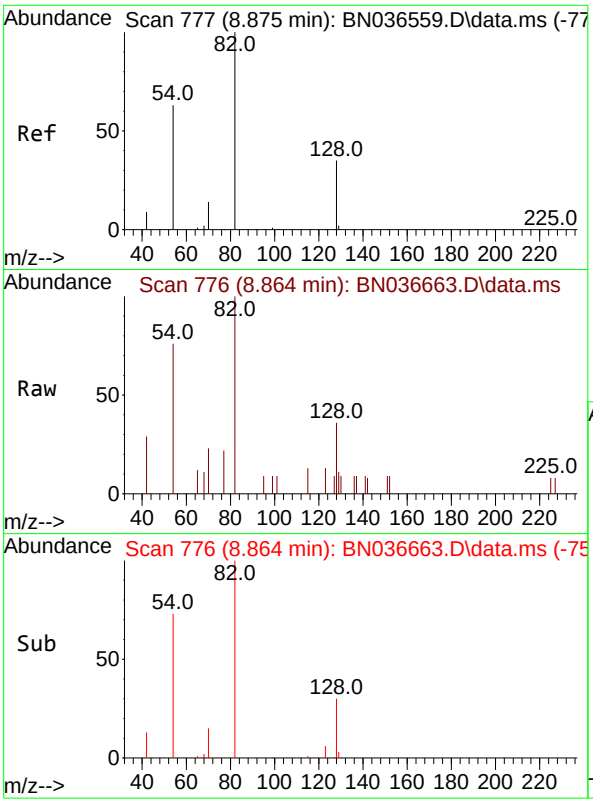


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:136 Resp: 3768

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	12.2	11.5	17.3
68	7.5	7.0	10.4



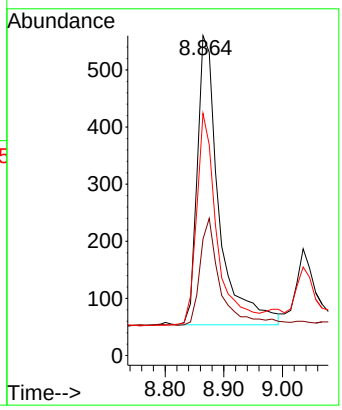


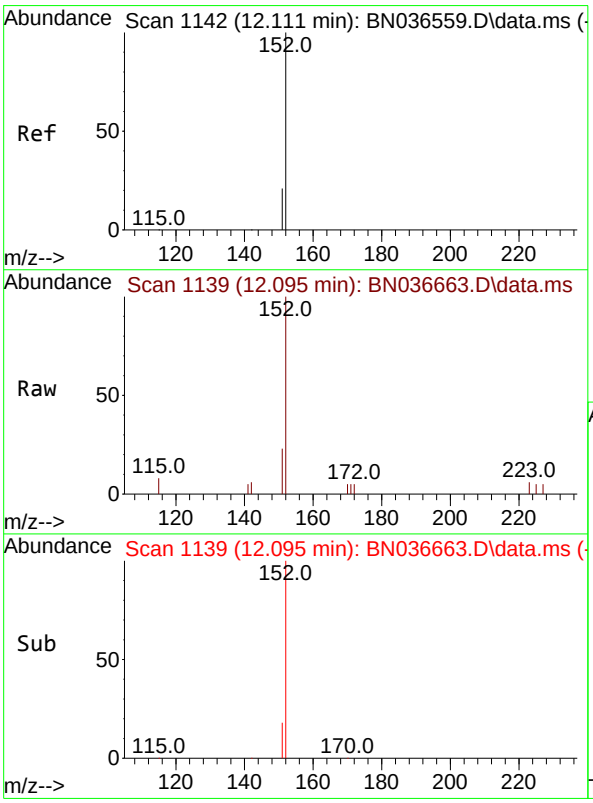
#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.864 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Tgt Ion: 82 Resp: 1306

Ion	Ratio	Lower	Upper
82	100		
128	36.4	30.6	45.8
54	75.7	52.2	78.4

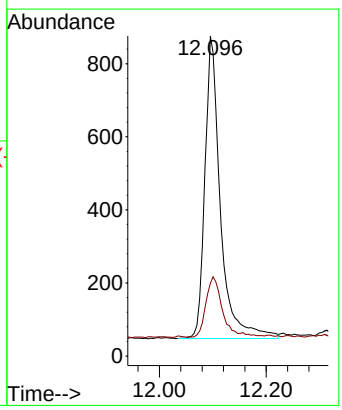


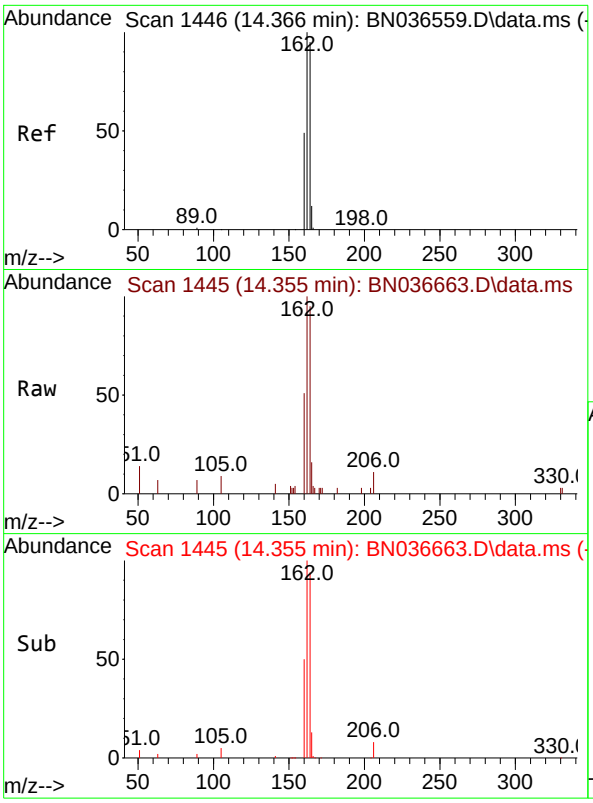


#11
2-Methylnaphthalene-d10
Concen: 0.299 ng
RT: 12.095 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:152 Resp: 1677

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6



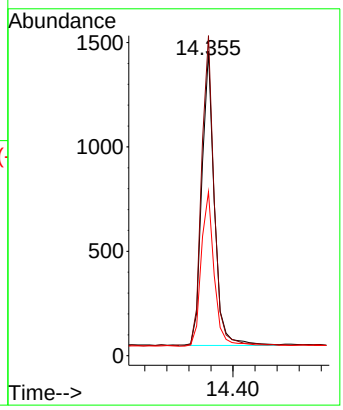


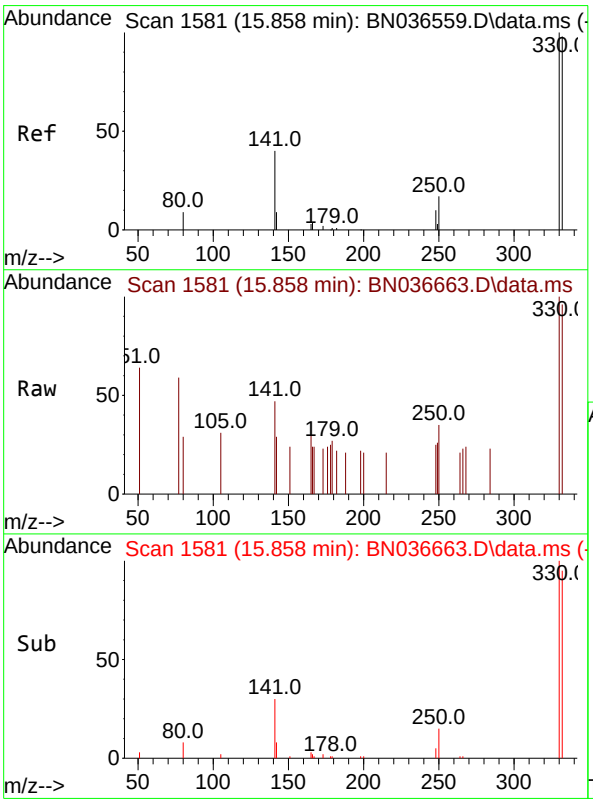
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Tgt Ion:164 Resp: 2232

Ion	Ratio	Lower	Upper
164	100		
162	105.1	84.2	126.2
160	53.8	42.2	63.2

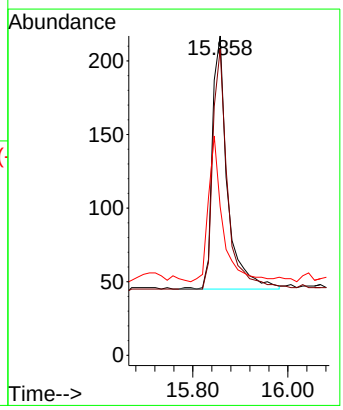


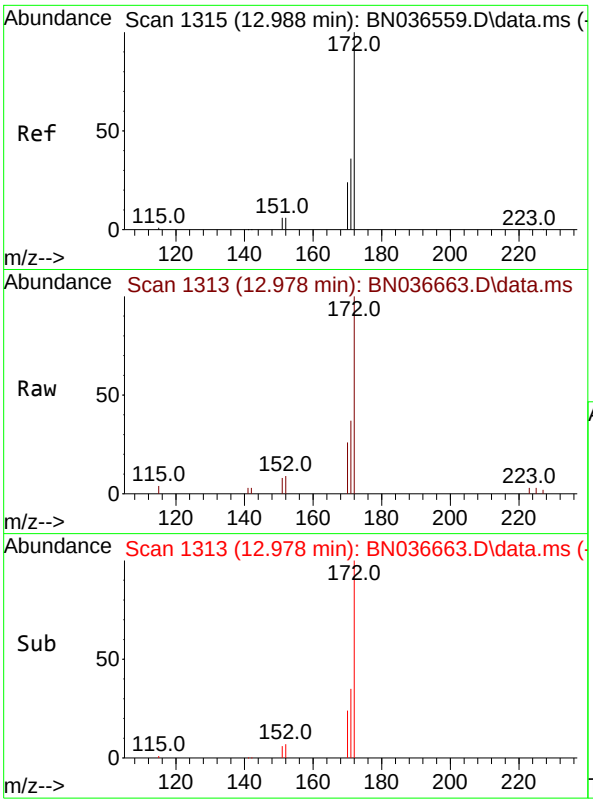


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.858 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:330 Resp: 380

Ion	Ratio	Lower	Upper
330	100		
332	92.1	75.2	112.8
141	54.5	43.4	65.2



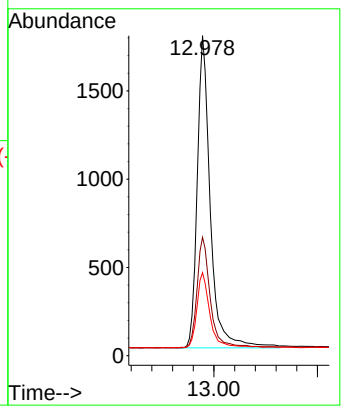


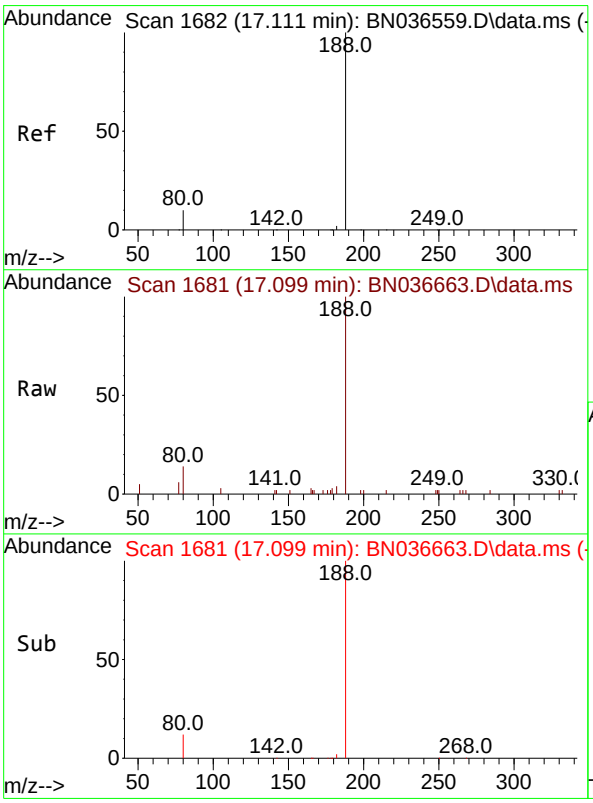
#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Tgt Ion:172 Resp: 4324

Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.5	44.3
170	26.0	20.2	30.4

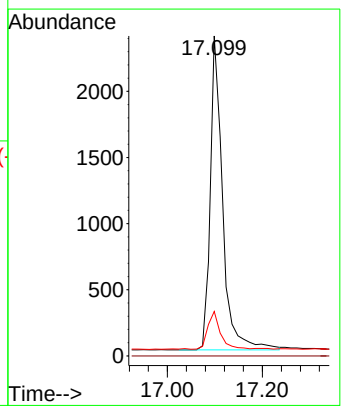


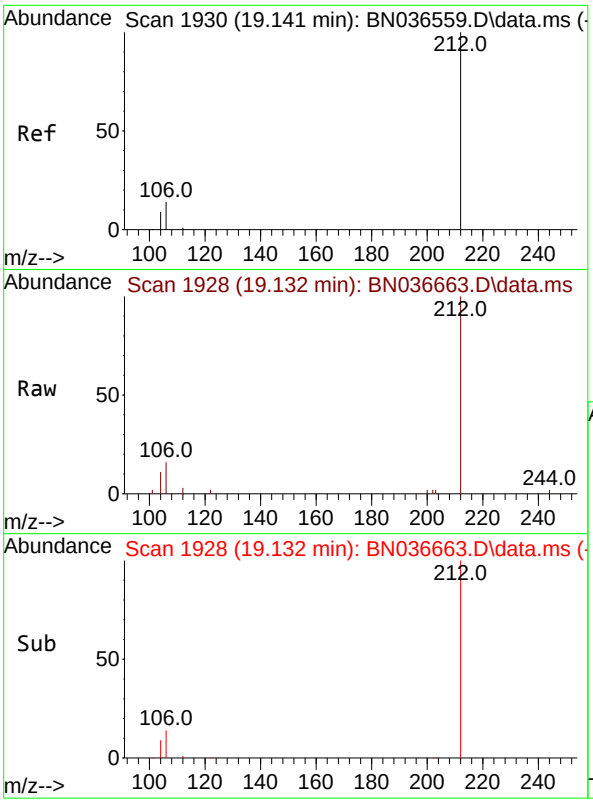


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:188 Resp: 4299

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.9	8.8	13.2#



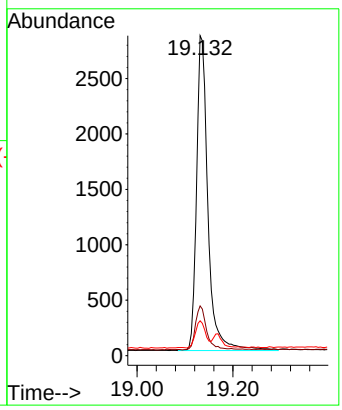


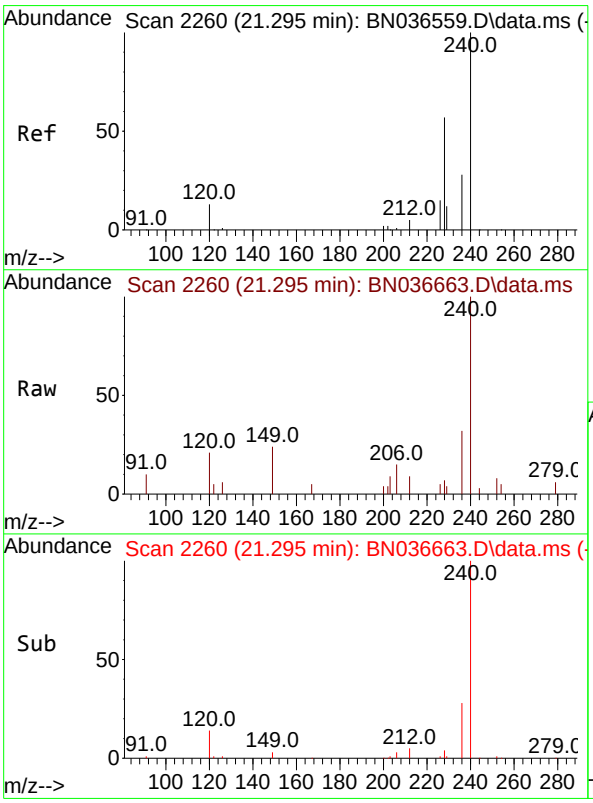
#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Tgt Ion:212 Resp: 4706

Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.8	17.6
104	7.9	7.3	10.9

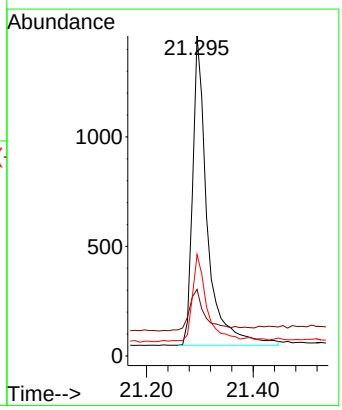


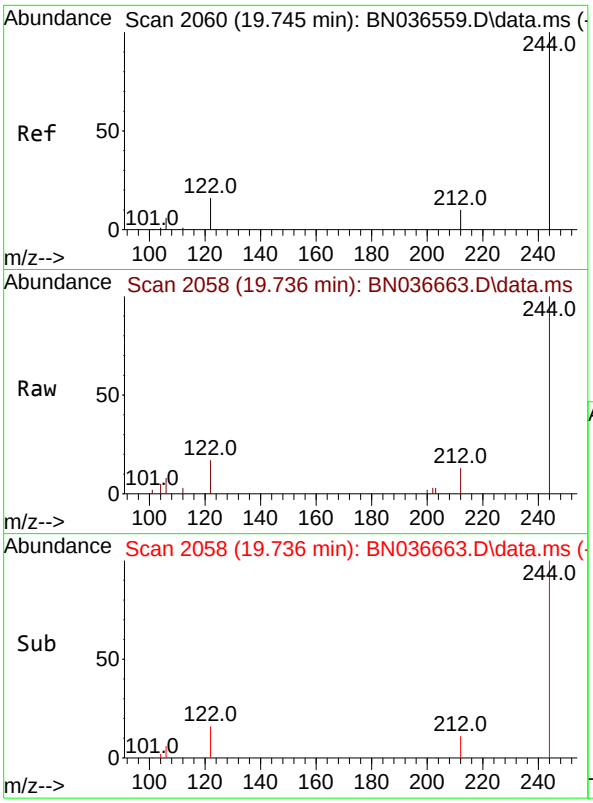


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:240 Resp: 2706

Ion	Ratio	Lower	Upper
240	100		
120	20.8	14.6	22.0
236	31.7	24.1	36.1



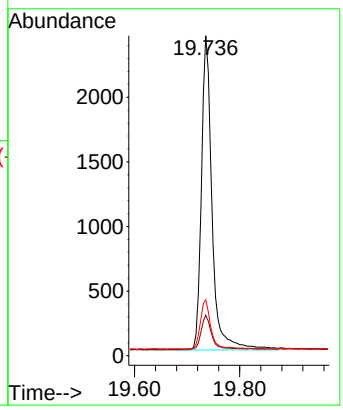


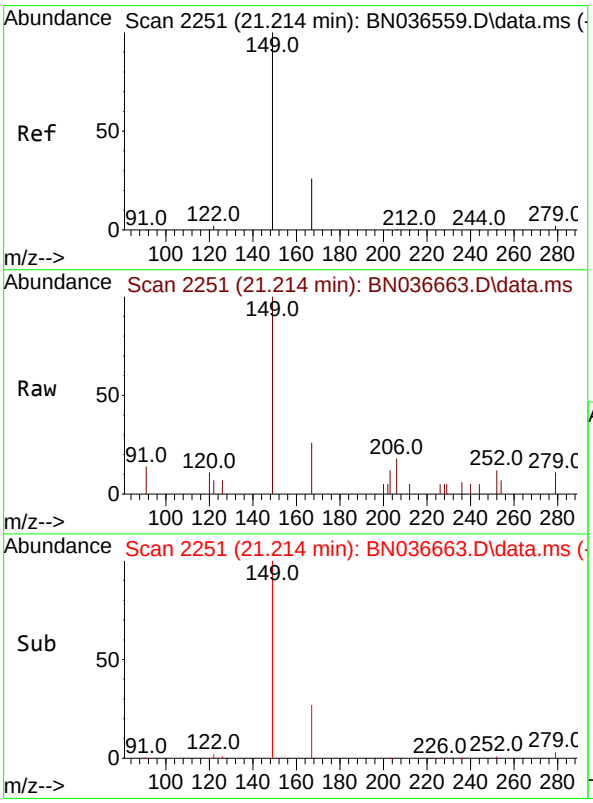
#31
Terphenyl-d14
Concen: 0.526 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Tgt Ion:244 Resp: 3413

Ion	Ratio	Lower	Upper
244	100		
212	12.7	9.6	14.4
122	17.5	13.9	20.9

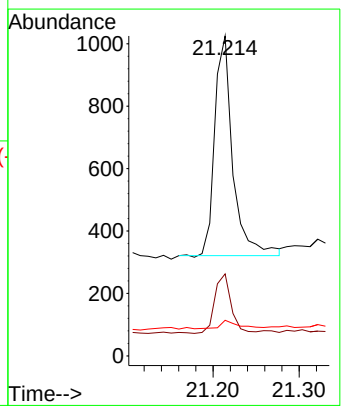


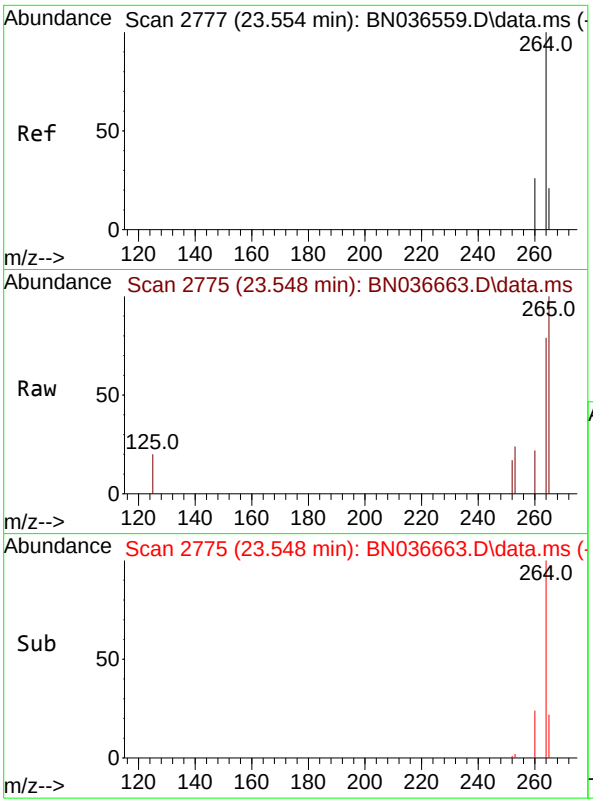


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Tgt Ion:149 Resp: 1025

Ion	Ratio	Lower	Upper
149	100		
167	24.6	20.7	31.1
279	3.4	3.6	5.4#



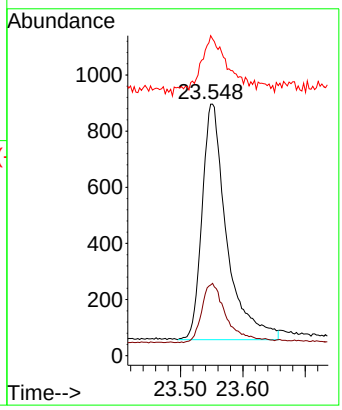


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.548 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036663.D
Acq: 17 Mar 2025 17:19

Instrument :
BNA_N
ClientSampleId :
FB02-20250313

Tgt Ion:264 Resp: 2307

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.6	33.8
265	127.2	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-06	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
BN036664.D	1	03/17/25 08:48	03/17/25 17:55	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.00	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		66%	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		78%	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	1390	7.717				
1146-65-2	Naphthalene-d8	3220	10.509				
15067-26-2	Acenaphthene-d10	1820	14.356				
1517-22-2	Phenanthrene-d10	3280	17.099				
1719-03-5	Chrysene-d12	2280	21.295				
1520-96-3	Perylene-d12	2090	23.546				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036664.D
Acq On : 17 Mar 2025 17:55
Operator : RC/JU
Sample : Q1582-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 00:54:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1388	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3220	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	1815	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3277	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	2281	0.400	ng	0.00
35) Perylene-d12	23.546	264	2088	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	457	0.141	ng	0.00
5) Phenol-d6	6.894	99	276	0.069	ng	0.00
8) Nitrobenzene-d5	8.875	82	1004	0.287	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	1266	0.264	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	270	0.328	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3280	0.311	ng	0.00
27) Fluoranthene-d10	19.132	212	3419	0.407	ng	0.00
31) Terphenyl-d14	19.736	244	2465	0.451	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.232	88	13781	8.950	ng	96
32) Benzo(a)anthracene	21.277	228	162	0.020	ng	# 45
33) Chrysene	21.331	228	258	0.030	ng	# 54
34) Bis(2-ethylhexyl)phtha...	21.214	149	919	0.163	ng	# 97
41) Benzo(g,h,i)perylene	26.537	276	375m	0.056	ng	

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

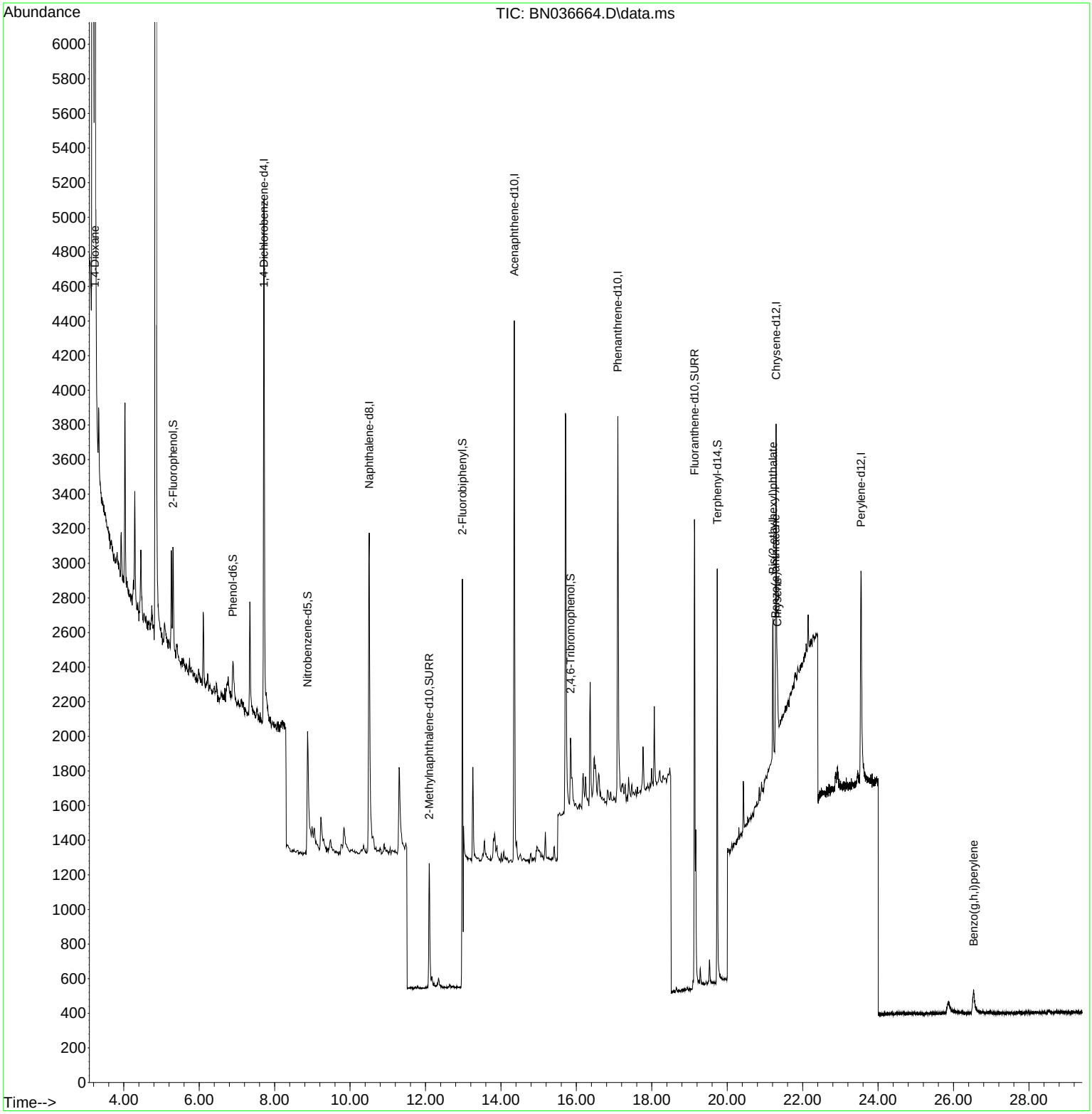
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036664.D
Acq On : 17 Mar 2025 17:55
Operator : RC/JU
Sample : Q1582-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

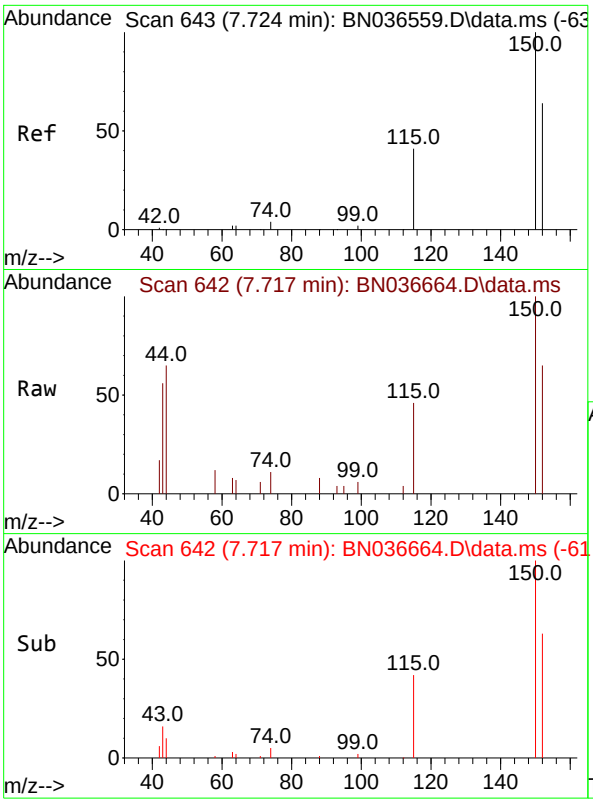
Quant Time: Mar 18 00:54:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

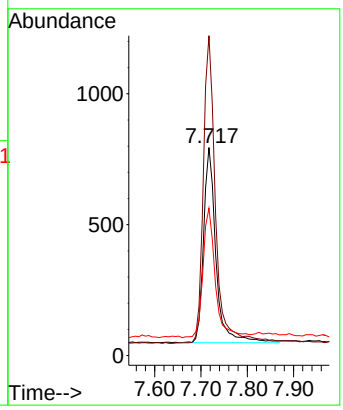




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:152 Resp: 138

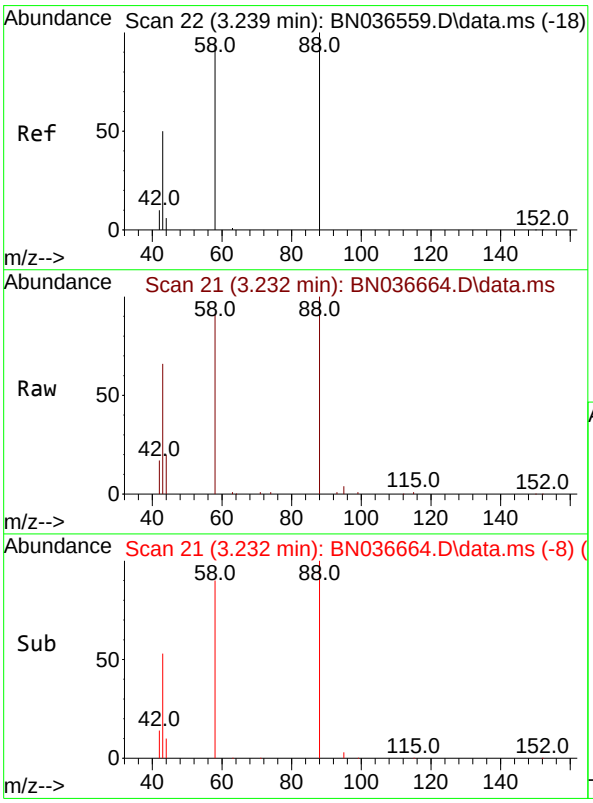
Ion	Ratio	Lower	Upper
152	100		
150	153.7	123.7	185.5
115	70.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

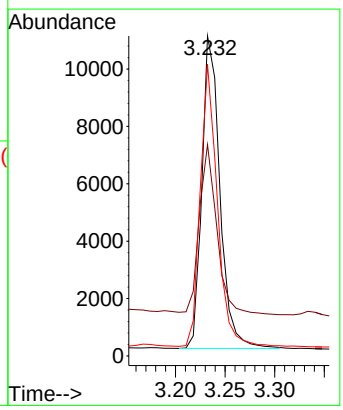
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

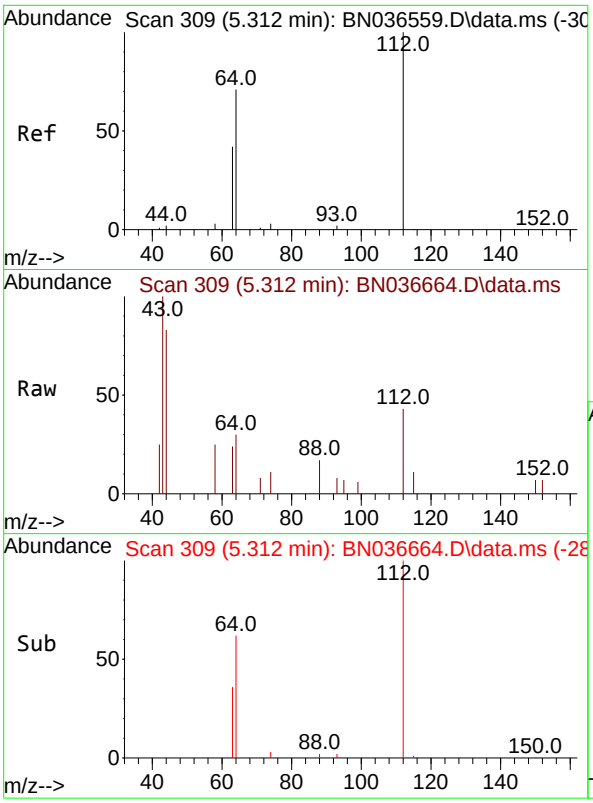


#2
1,4-Dioxane
Concen: 8.950 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion: 88 Resp: 13781

Ion	Ratio	Lower	Upper
88	100		
43	53.2	37.8	56.8
58	85.4	67.4	101.2

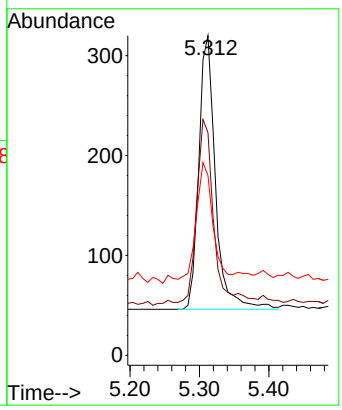




#4
2-Fluorophenol
Concen: 0.141 ng
RT: 5.312 min Scan# 3(
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:112 Resp: 45

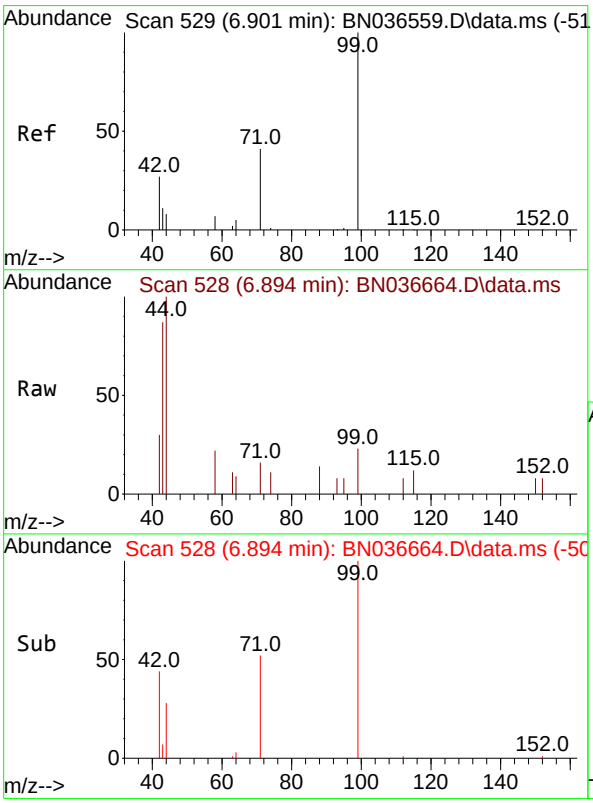
Ion	Ratio	Lower	Upper
112	100		
64	66.7	53.1	79.7
63	47.0	31.8	47.8



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

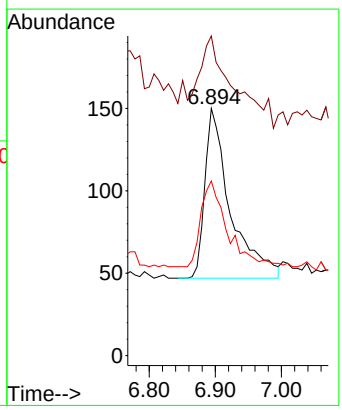
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

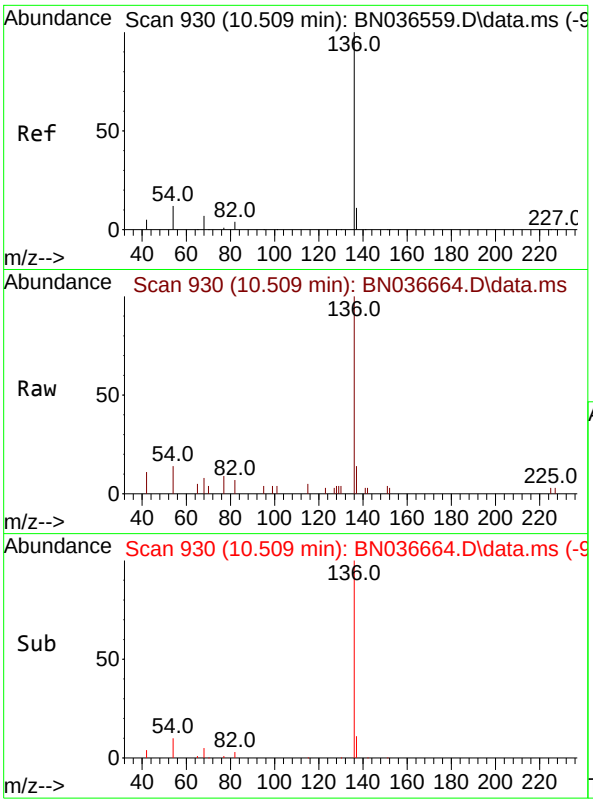


#5
Phenol-d6
Concen: 0.069 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion: 99 Resp: 276

Ion	Ratio	Lower	Upper
99	100		
42	51.4	26.5	39.7#
71	55.8	34.1	51.1#

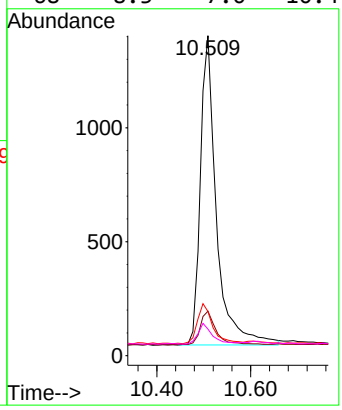




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:136 Resp: 322

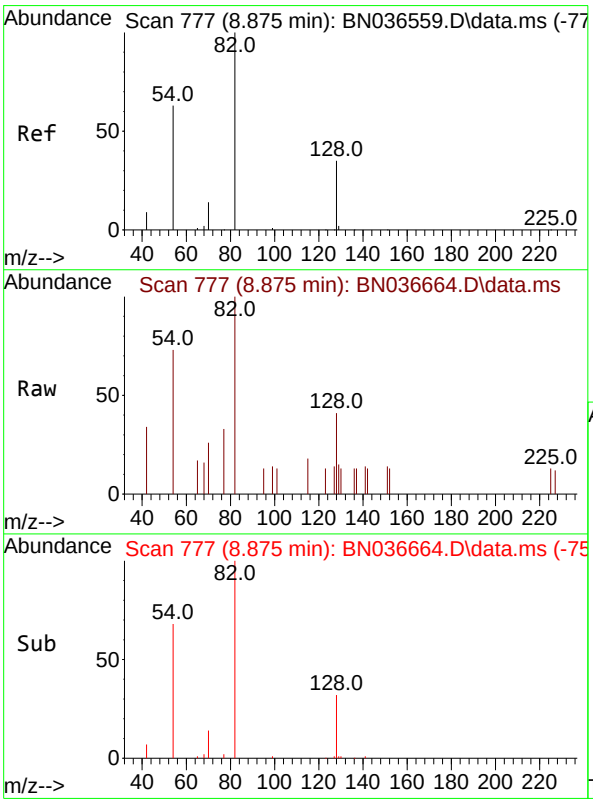
Ion	Ratio	Lower	Upper
136	100		
137	13.9	10.3	15.5
54	13.8	11.5	17.3
68	8.3	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

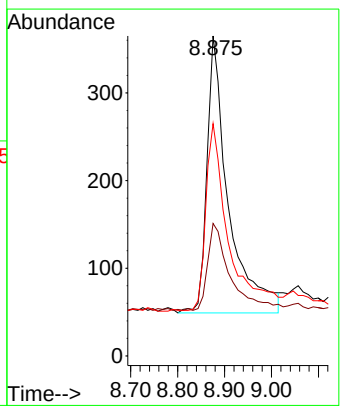
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

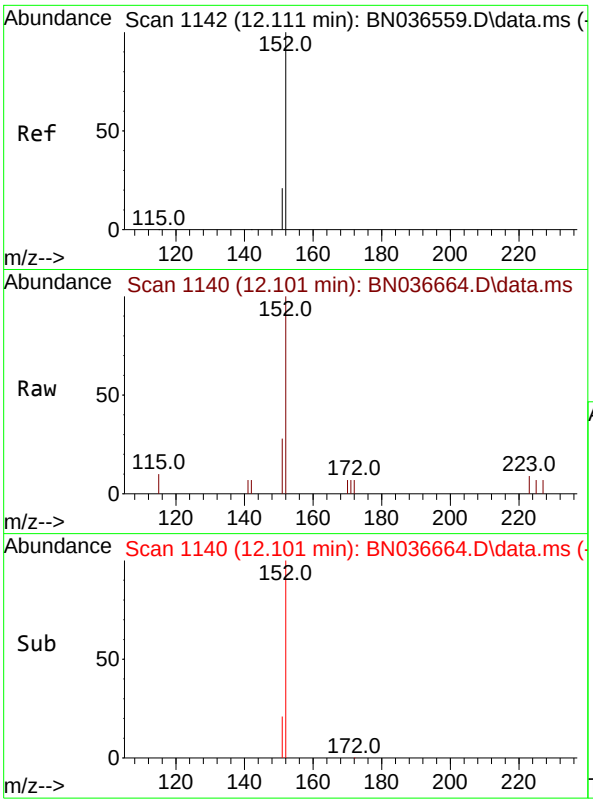


#8
Nitrobenzene-d5
Concen: 0.287 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion: 82 Resp: 1004

Ion	Ratio	Lower	Upper
82	100		
128	41.4	30.6	45.8
54	72.6	52.2	78.4

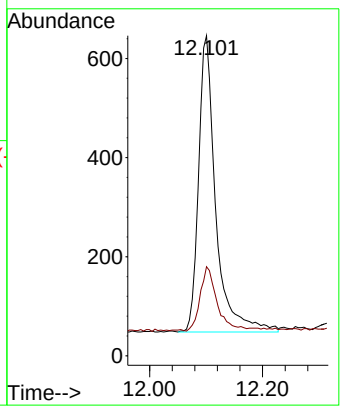




#11
2-Methylnaphthalene-d10
Concen: 0.264 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:152 Resp: 126

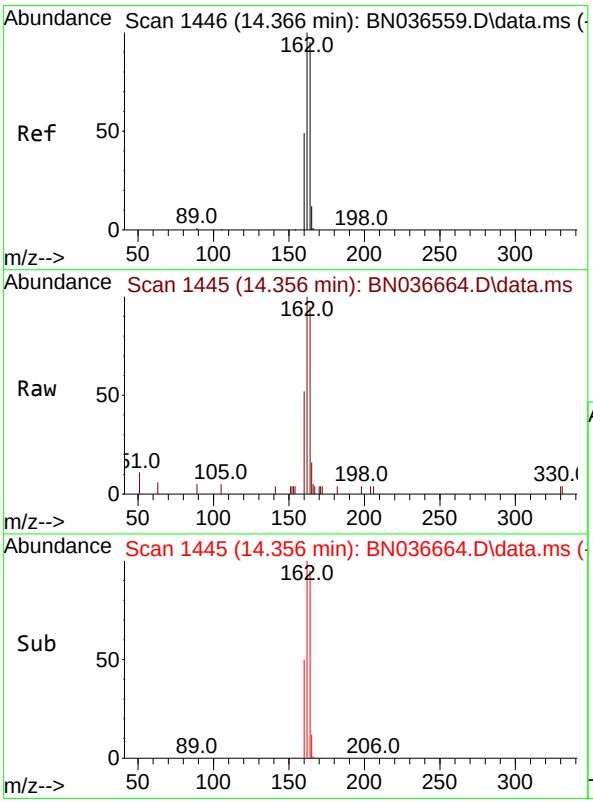
Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

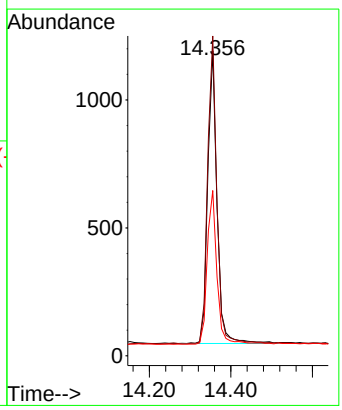
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

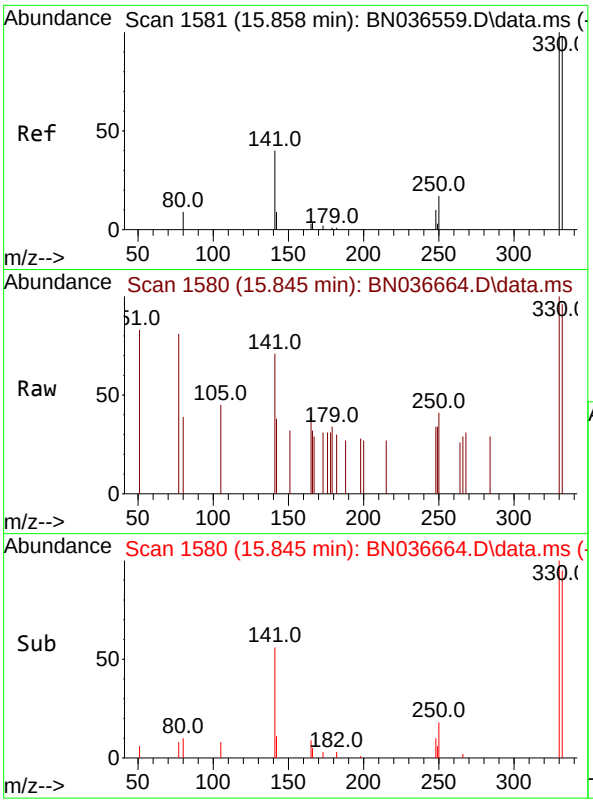


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:164 Resp: 1815

Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.2	126.2
160	54.2	42.2	63.2

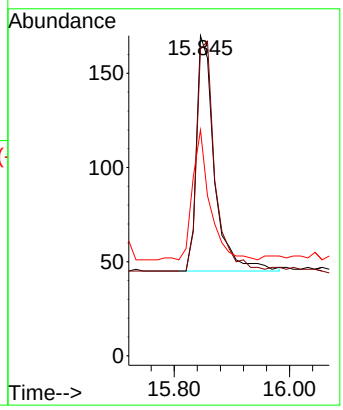




#14
2,4,6-Tribromophenol
Concen: 0.328 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:330 Resp: 27

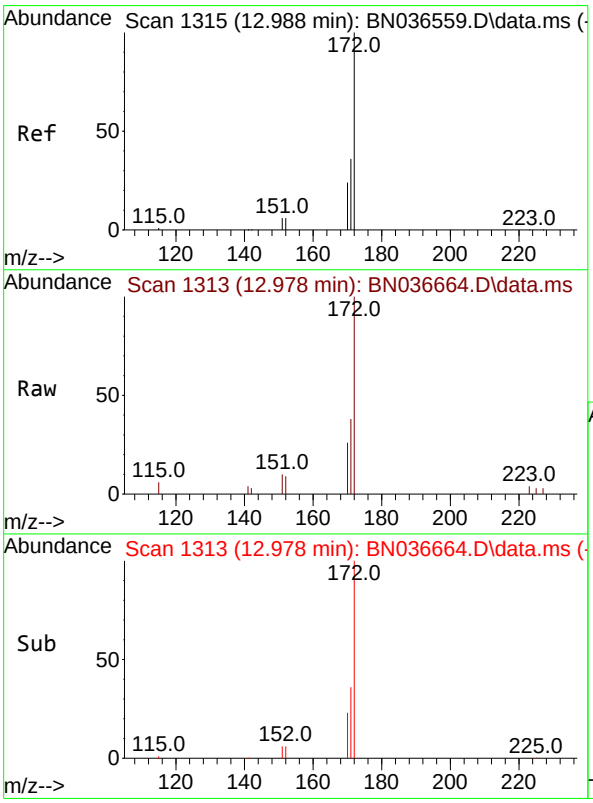
Ion	Ratio	Lower	Upper
330	100		
332	98.9	75.2	112.8
141	53.0	43.4	65.2



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

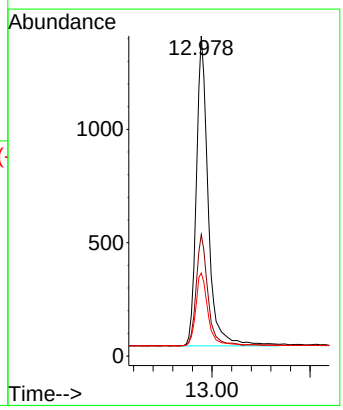
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

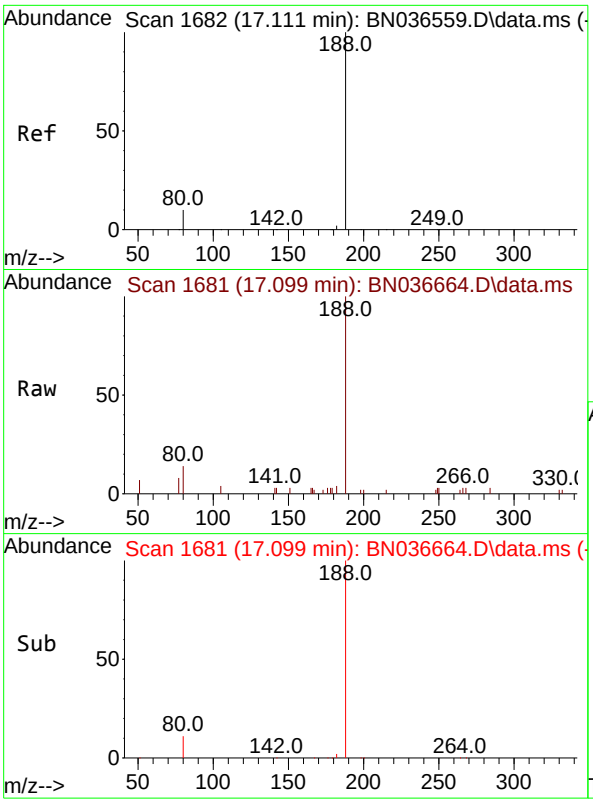


#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:172 Resp: 3280

Ion	Ratio	Lower	Upper
172	100		
171	38.0	29.5	44.3
170	25.9	20.2	30.4

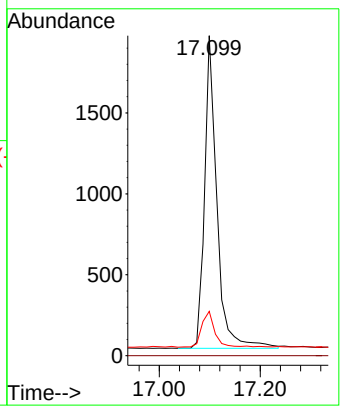




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:188 Resp: 327

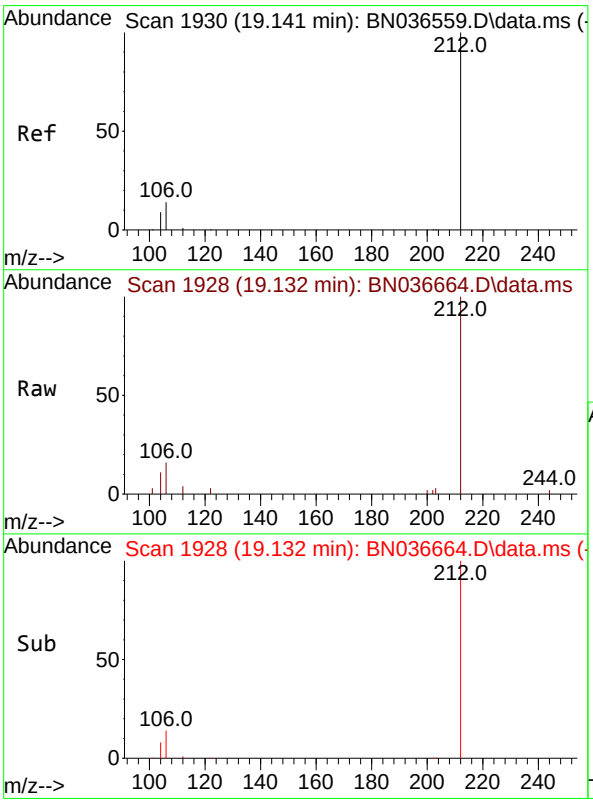
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.9	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

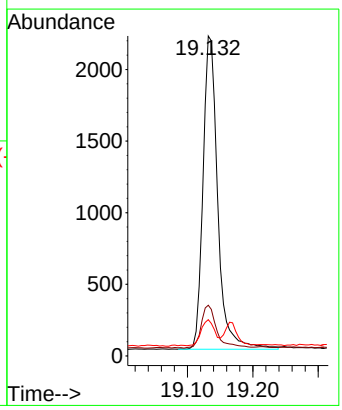
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

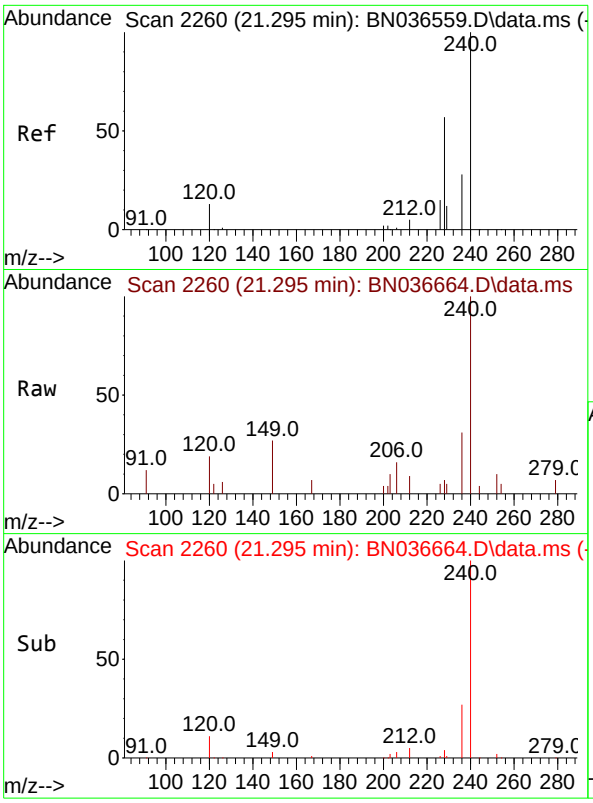


#27
Fluoranthene-d10
Concen: 0.407 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:212 Resp: 3419

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	7.7	7.3	10.9

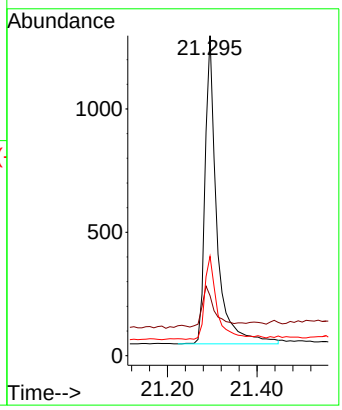




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:240 Resp: 228

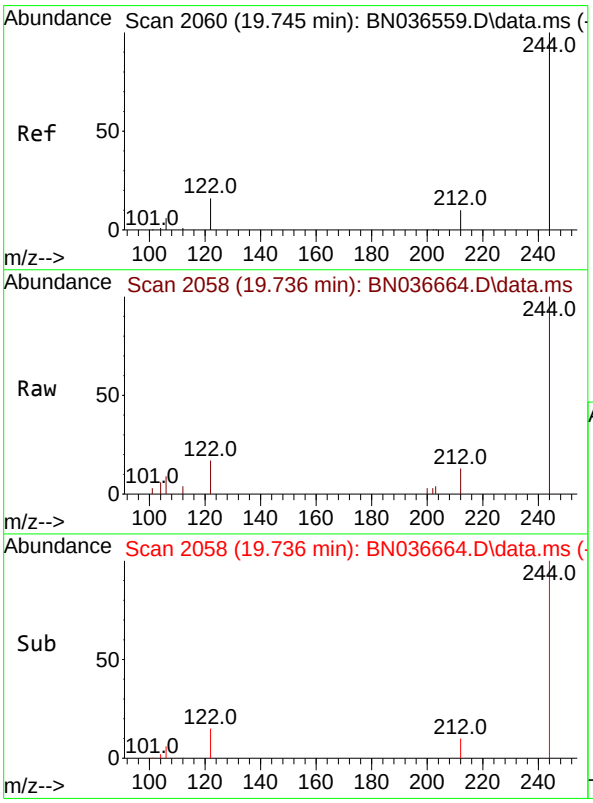
Ion	Ratio	Lower	Upper
240	100		
120	18.7	14.6	22.0
236	31.1	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

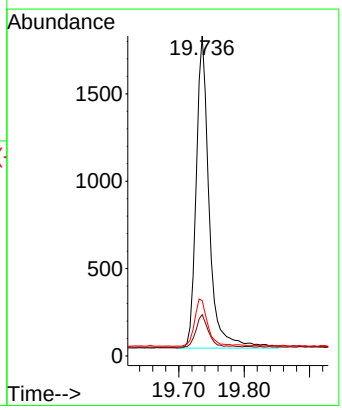
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

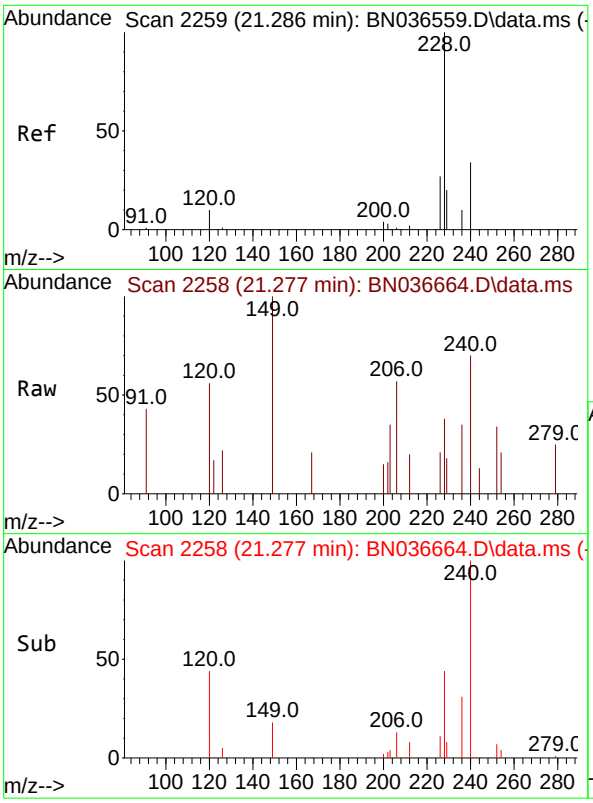


#31
Terphenyl-d14
Concen: 0.451 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:244 Resp: 2465

Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	17.3	13.9	20.9

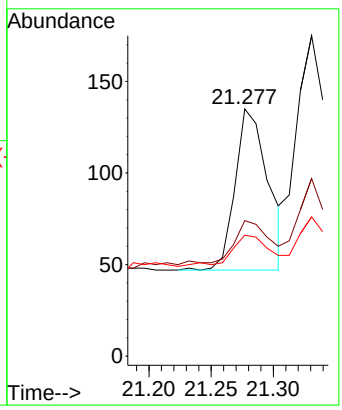




#32
Benzo(a)anthracene
Concen: 0.020 ng
RT: 21.277 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:228 Resp: 16

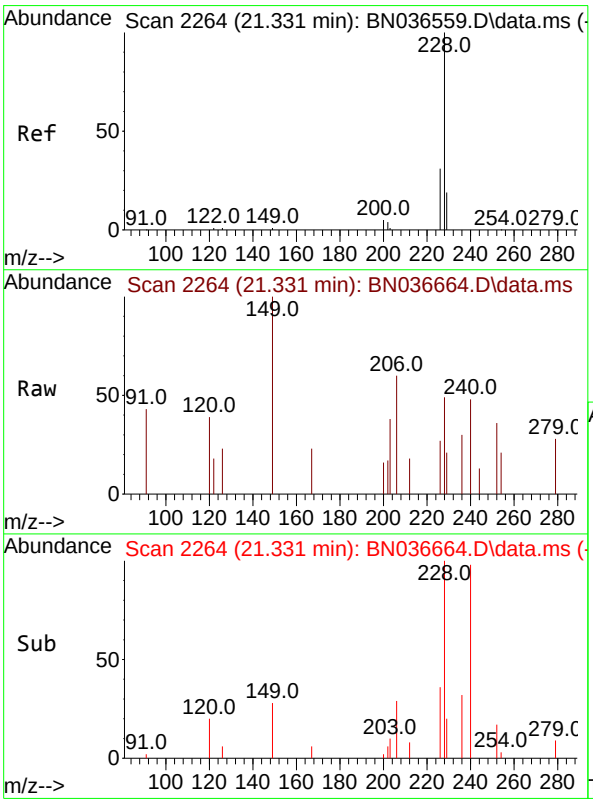
Ion	Ratio	Lower	Upper
228	100		
226	54.8	22.5	33.7#
229	48.9	16.6	25.0#



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
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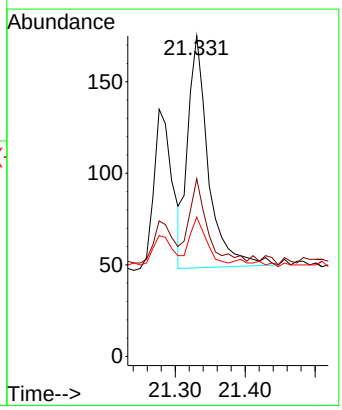
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

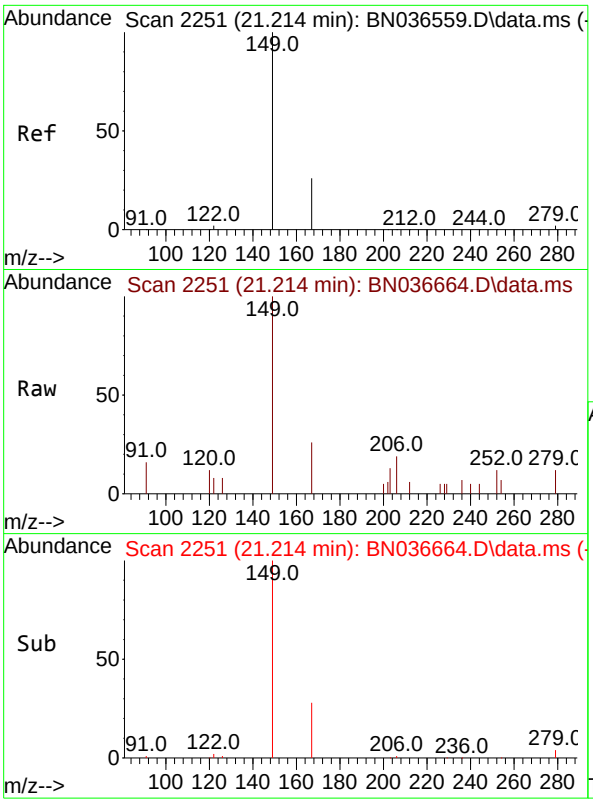


#33
Chrysene
Concen: 0.030 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:228 Resp: 258

Ion	Ratio	Lower	Upper
228	100		
226	55.4	25.3	37.9#
229	43.4	15.8	23.8#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.163 ng
RT: 21.214 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

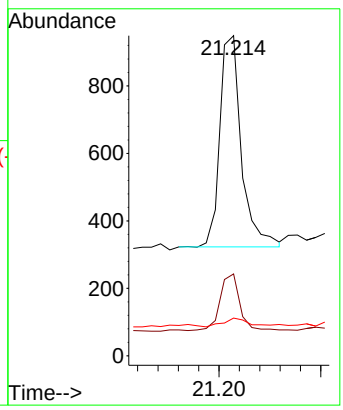
Tgt Ion:149 Resp: 91

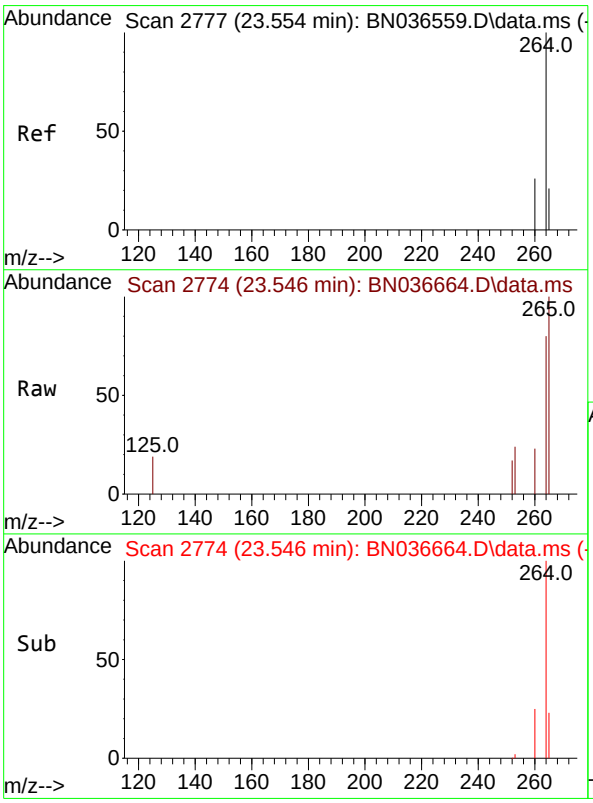
Ion	Ratio	Lower	Upper
149	100		
167	24.6	20.7	31.1
279	5.5	3.6	5.4

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

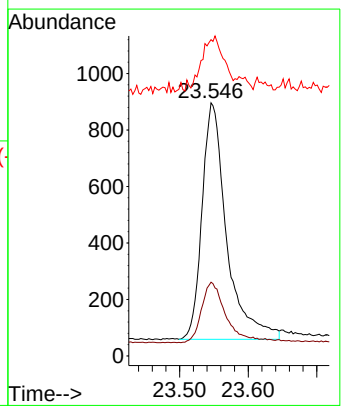


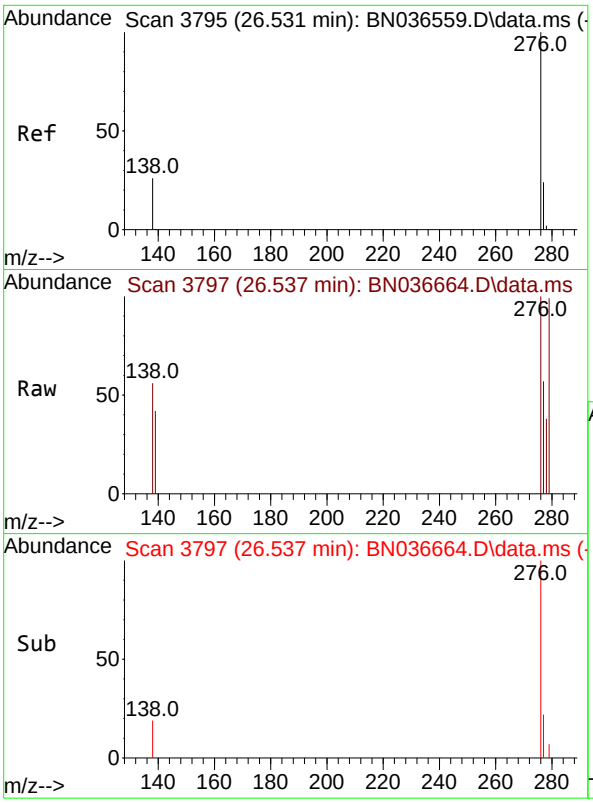


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:264 Resp: 2088

Ion	Ratio	Lower	Upper
264	100		
260	29.1	22.6	33.8
265	125.0	88.1	132.1

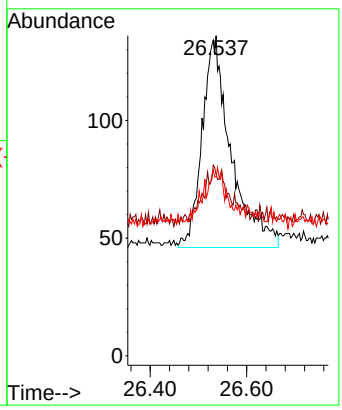




#41
Benzo(g,h,i)perylene
Concen: 0.056 ng m
RT: 26.537 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036664.D
Acq: 17 Mar 2025 17:55

Tgt Ion:276 Resp: 37

Ion	Ratio	Lower	Upper
276	100		
277	56.6	22.2	33.4#
138	55.9	24.1	36.1#



Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D1-20250313DL	SDG No.:	Q1582
Lab Sample ID:	Q1582-06DL	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
BN036685.D	5	03/17/25 08:48	03/18/25 10:34	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.70	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		69%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1660	7.717				
1146-65-2	Naphthalene-d8	3780	10.509				
15067-26-2	Acenaphthene-d10	2380	14.355				
1517-22-2	Phenanthrene-d10	4560	17.099				
1719-03-5	Chrysene-d12	3010	21.295				
1520-96-3	Perylene-d12	2750	23.543				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036685.D
Acq On : 18 Mar 2025 10:34
Operator : RC/JU
Sample : Q1582-06DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Quant Time: Mar 18 11:02:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

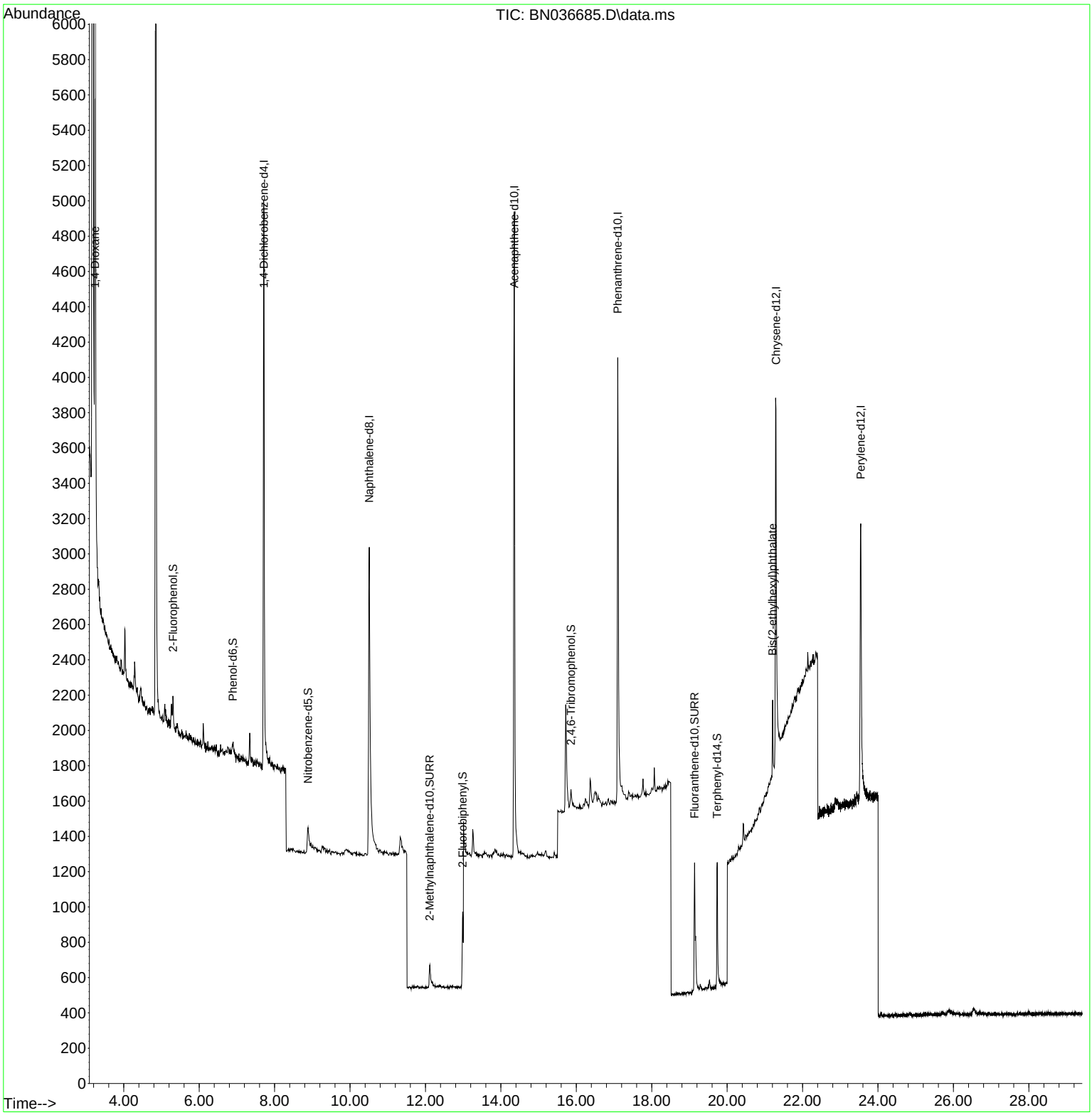
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1658	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	3783	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	2382	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4560	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3005	0.400	ng	0.00
35) Perylene-d12	23.543	264	2748	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	123	0.032	ng	0.00
5) Phenol-d6	6.894	99	100	0.021	ng	0.00
8) Nitrobenzene-d5	8.886	82	261	0.063	ng	0.01
11) 2-Methylnaphthalene-d10	12.116	152	334	0.059	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	83	0.077	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	759	0.055	ng	0.00
27) Fluoranthene-d10	19.136	212	1076	0.092	ng	0.00
31) Terphenyl-d14	19.736	244	920	0.128	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	3545	1.927	ng	93
34) Bis(2-ethylhexyl)phtha...	21.205	149	517	0.069	ng	# 88

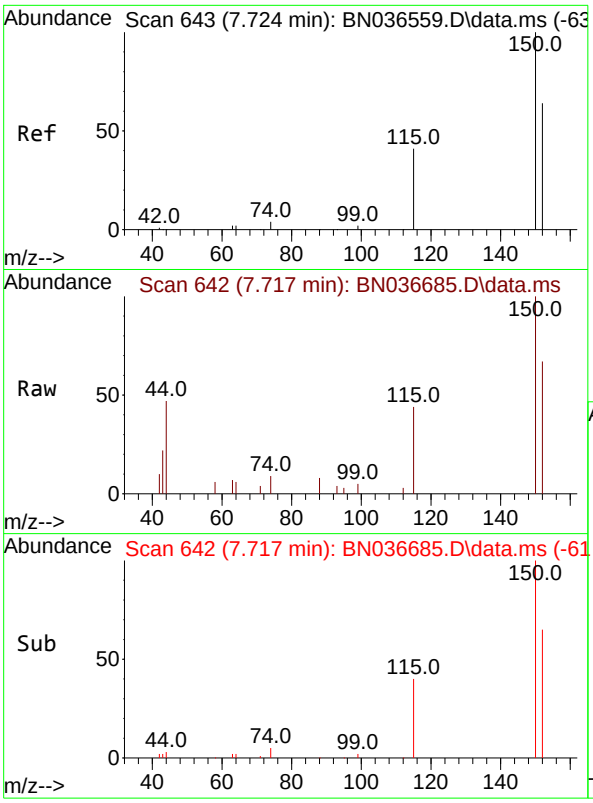
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036685.D
Acq On : 18 Mar 2025 10:34
Operator : RC/JU
Sample : Q1582-06DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Quant Time: Mar 18 11:02:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



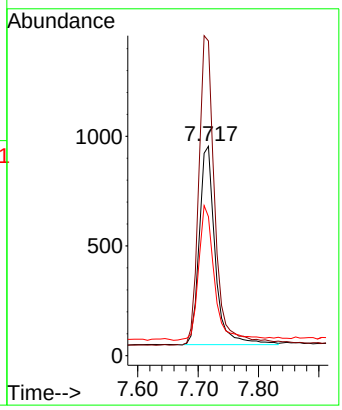


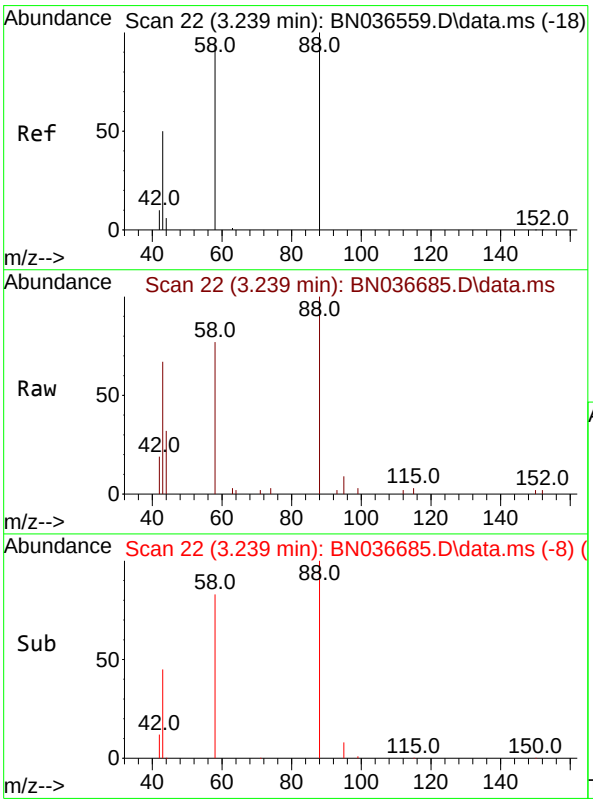
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:152 Resp: 1658

Ion	Ratio	Lower	Upper
152	100		
150	150.3	123.7	185.5
115	66.4	54.3	81.5

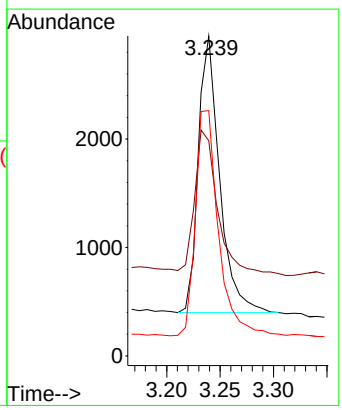


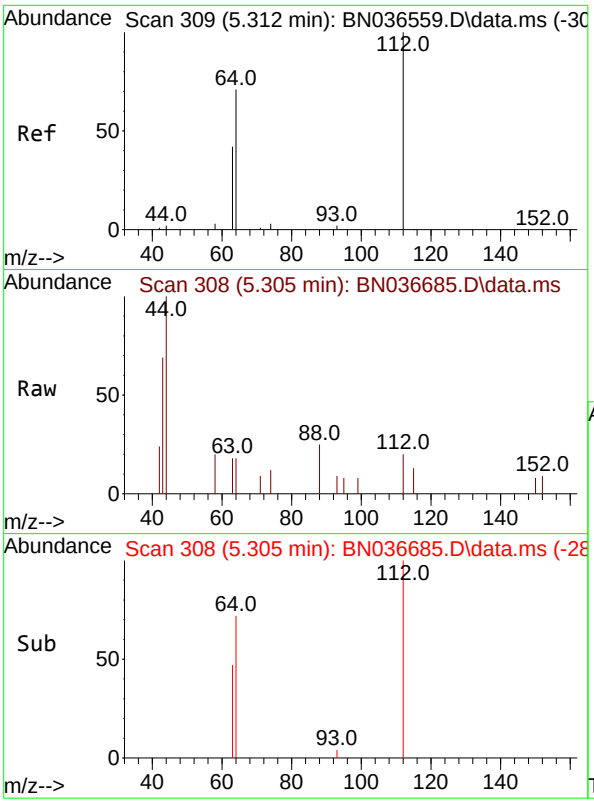


#2
1,4-Dioxane
Concen: 1.927 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion: 88 Resp: 3545

Ion	Ratio	Lower	Upper
88	100		
43	54.6	37.8	56.8
58	88.0	67.4	101.2



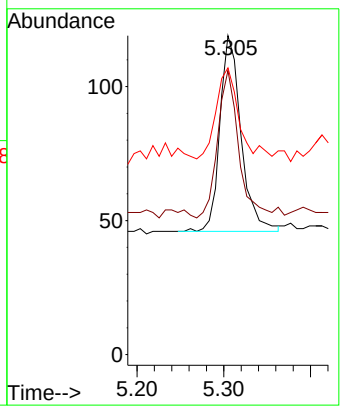


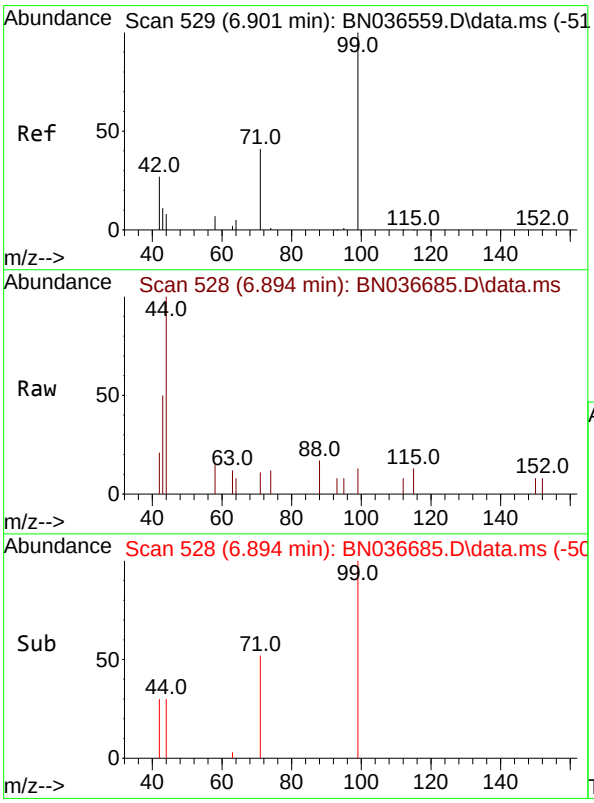
#4
2-Fluorophenol
Concen: 0.032 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:112 Resp: 123

Ion	Ratio	Lower	Upper
112	100		
64	76.4	53.1	79.7
63	58.5	31.8	47.8#

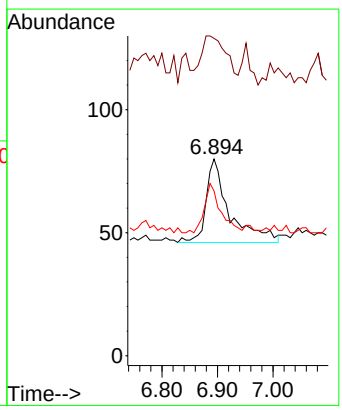


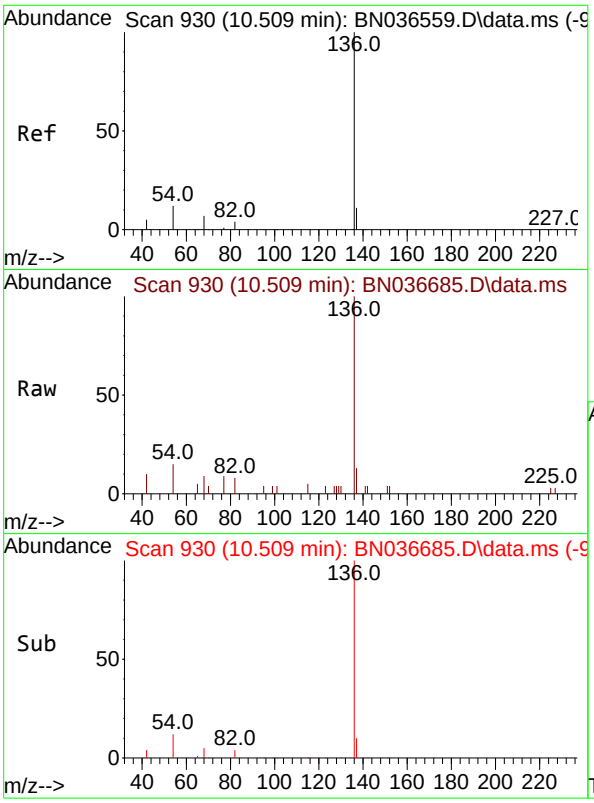


#5
Phenol-d6
Concen: 0.021 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion: 99 Resp: 100

Ion	Ratio	Lower	Upper
99	100		
42	49.0	26.5	39.7#
71	44.0	34.1	51.1



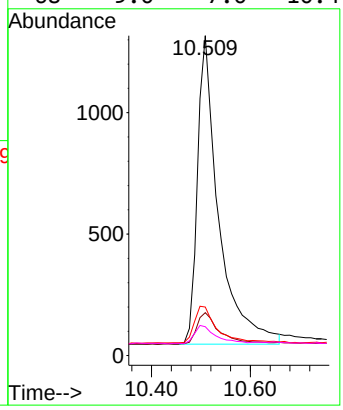


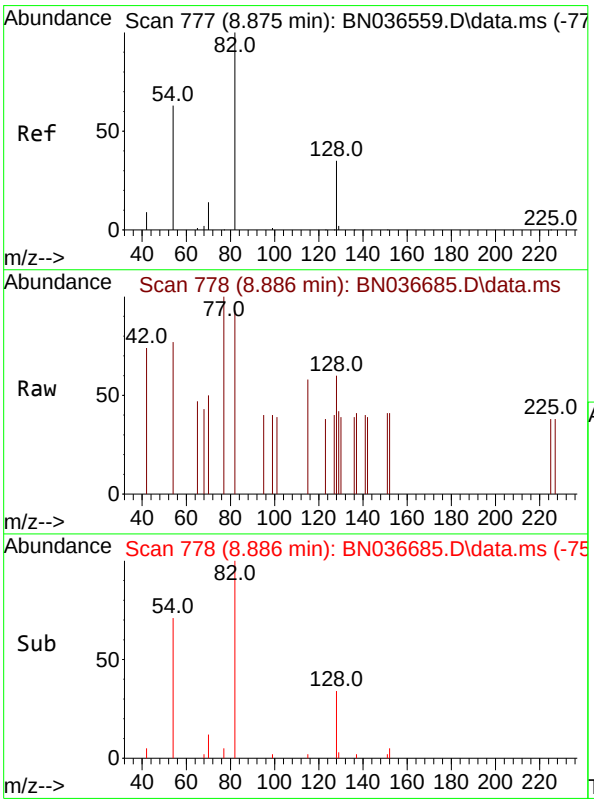
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:136 Resp: 3783

Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	15.2	11.5	17.3
68	9.0	7.0	10.4

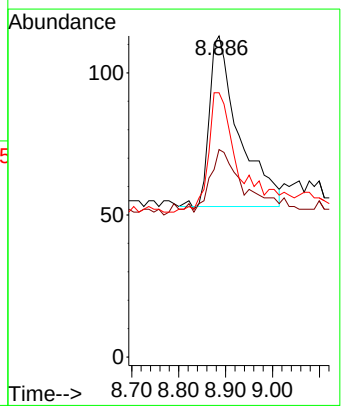


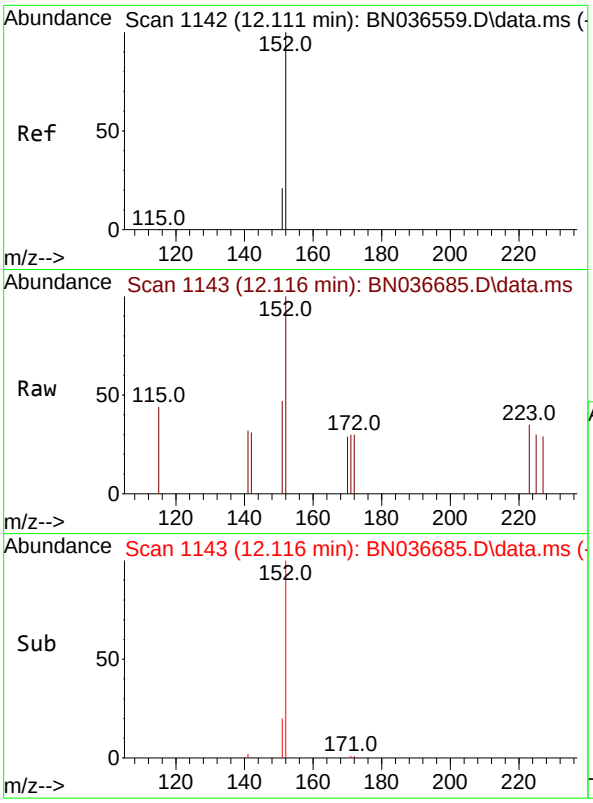


#8
Nitrobenzene-d5
Concen: 0.063 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion: 82 Resp: 261

Ion	Ratio	Lower	Upper
82	100		
128	64.6	30.6	45.8#
54	82.3	52.2	78.4#



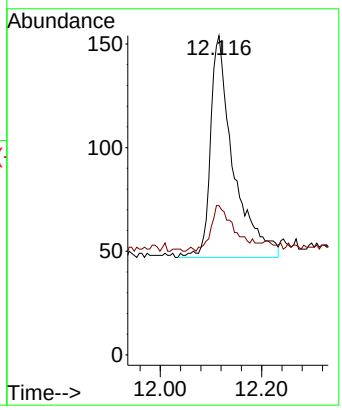


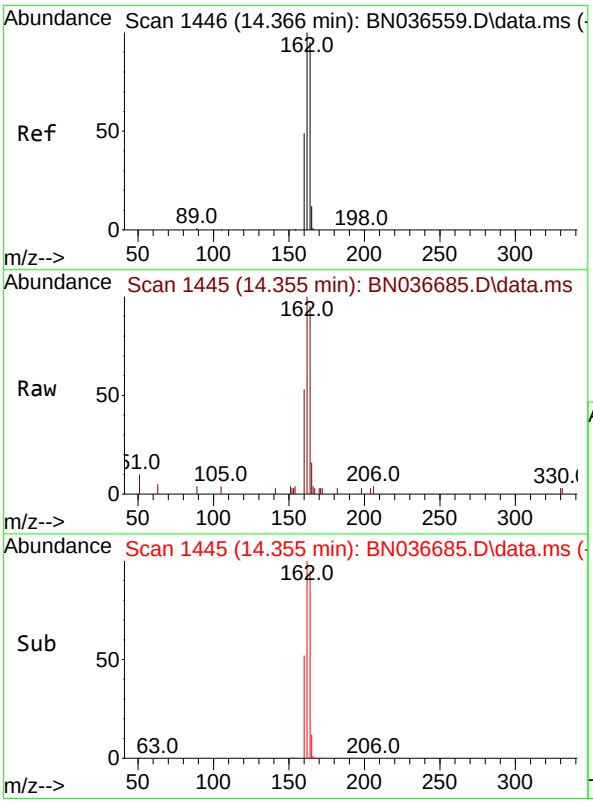
#11
2-Methylnaphthalene-d10
Concen: 0.059 ng
RT: 12.116 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:152 Resp: 334

Ion	Ratio	Lower	Upper
152	100		
151	20.1	17.0	25.6

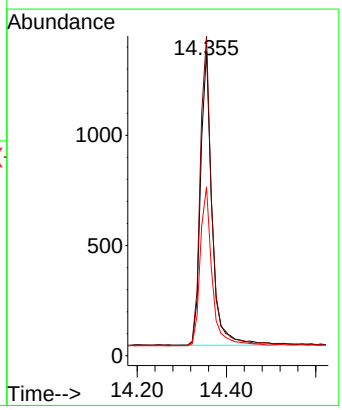


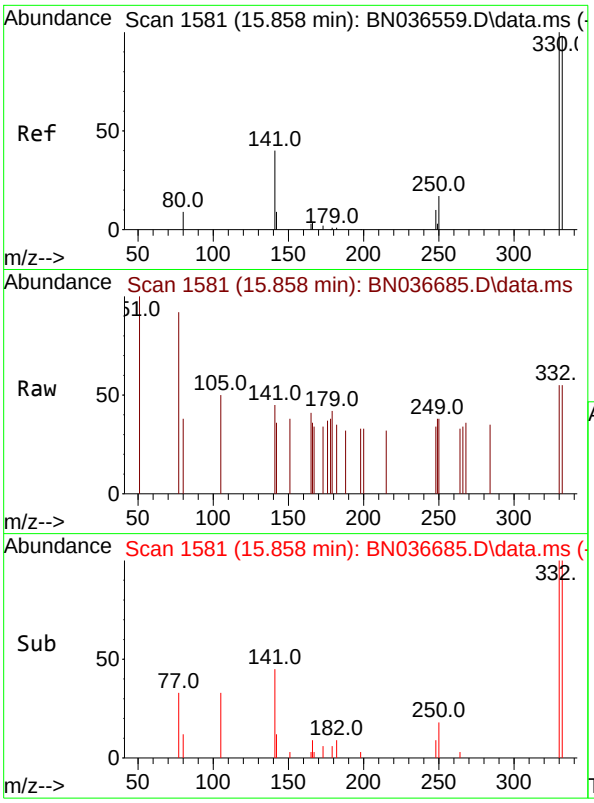


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:164 Resp: 2382

Ion	Ratio	Lower	Upper
164	100		
162	104.8	84.2	126.2
160	55.4	42.2	63.2



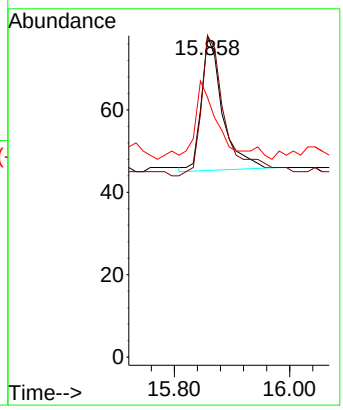


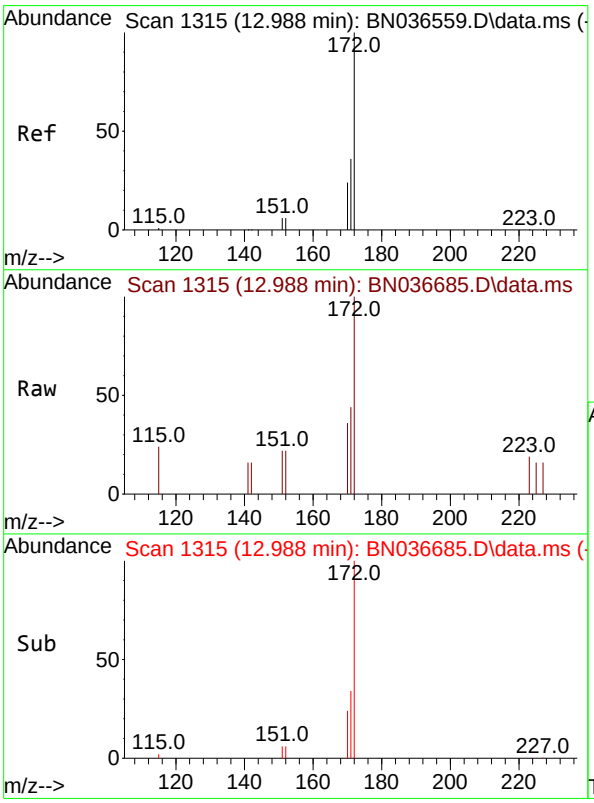
#14
2,4,6-Tribromophenol
Concen: 0.077 ng
RT: 15.858 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:330 Resp: 83

Ion	Ratio	Lower	Upper
330	100		
332	119.3	75.2	112.8#
141	61.4	43.4	65.2

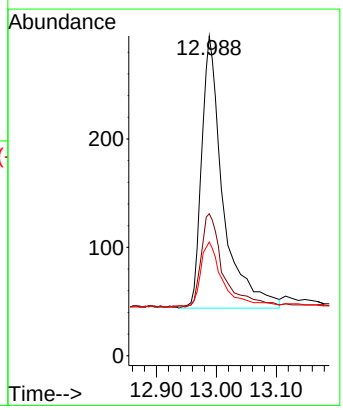


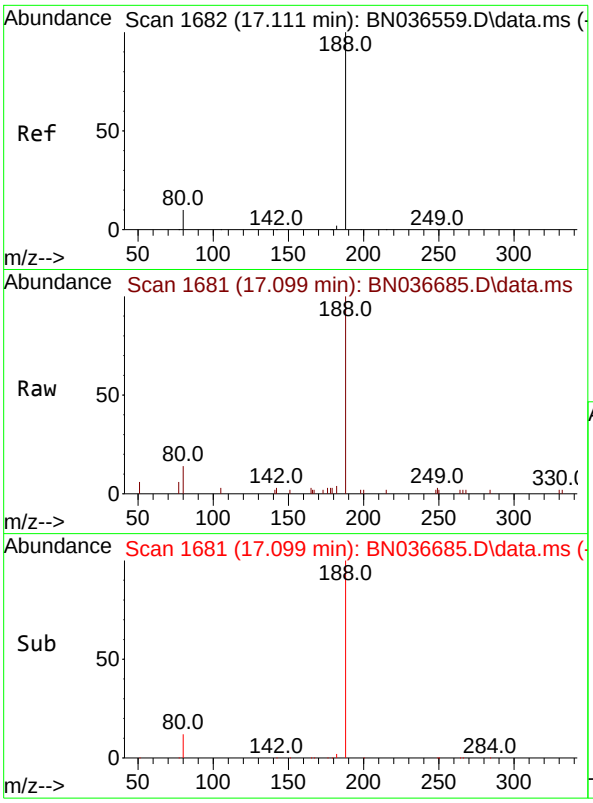


#15
2-Fluorobiphenyl
Concen: 0.055 ng
RT: 12.988 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:172 Resp: 759

Ion	Ratio	Lower	Upper
172	100		
171	44.4	29.5	44.3#
170	35.6	20.2	30.4#



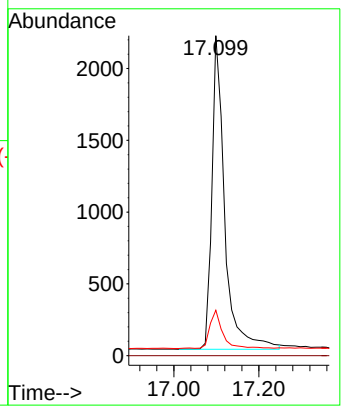


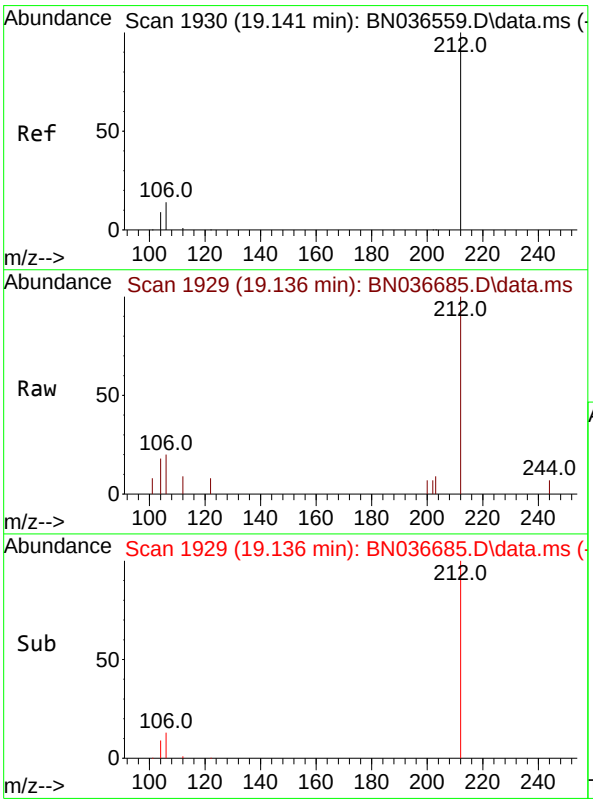
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:188 Resp: 4560

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

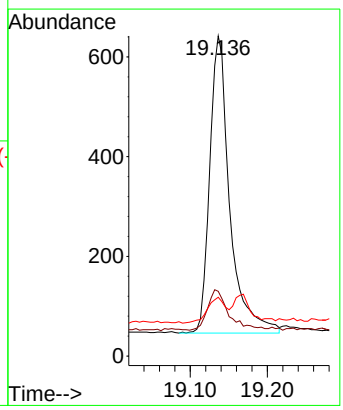


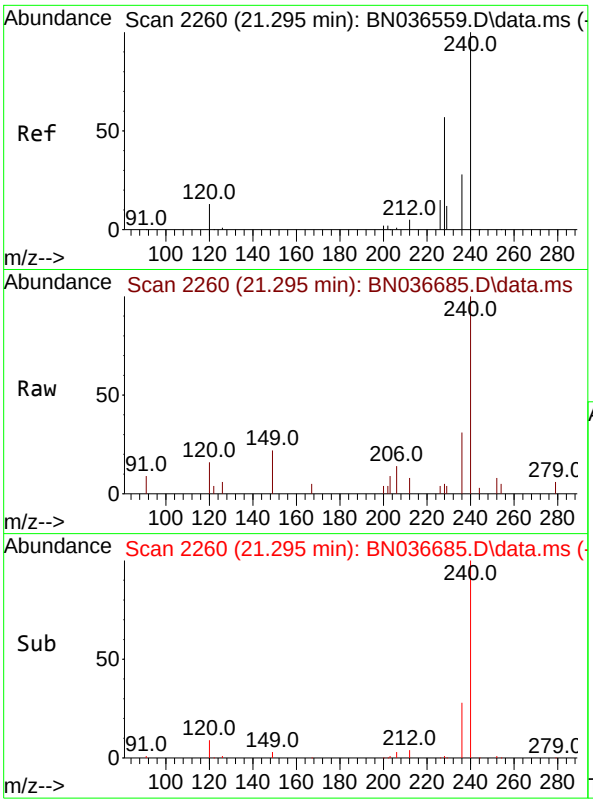


#27
Fluoranthene-d10
Concen: 0.092 ng
RT: 19.136 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:212 Resp: 1076

Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.8	17.6
104	8.0	7.3	10.9



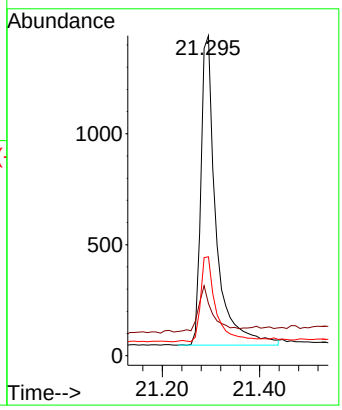


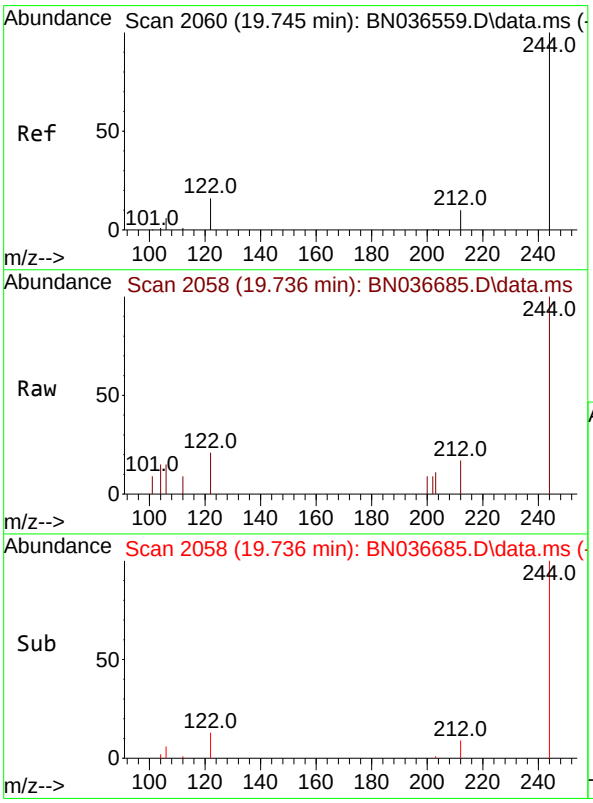
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:240 Resp: 3005

Ion	Ratio	Lower	Upper
240	100		
120	16.3	14.6	22.0
236	30.9	24.1	36.1

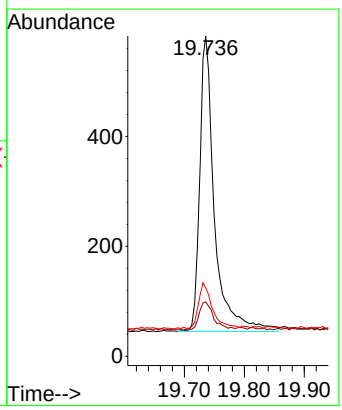


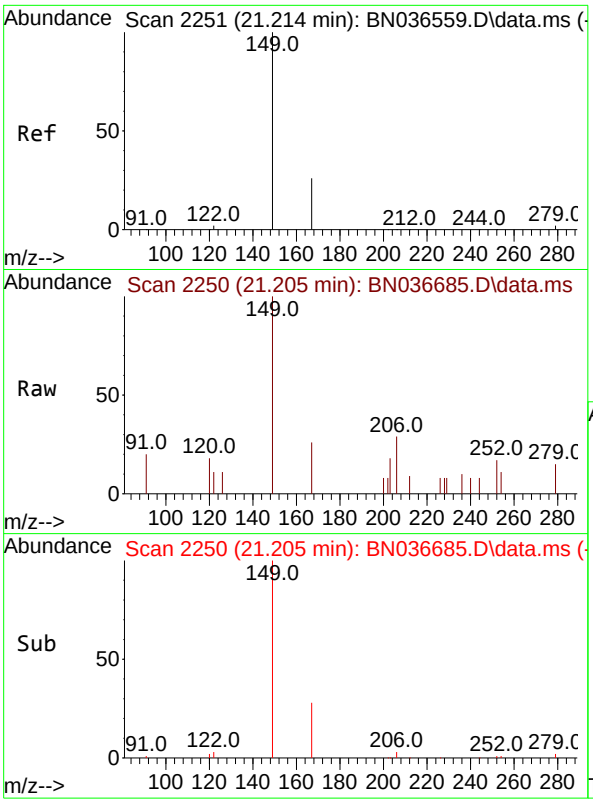


#31
Terphenyl-d14
Concen: 0.128 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:244 Resp: 920

Ion	Ratio	Lower	Upper
244	100		
212	17.0	9.6	14.4#
122	21.3	13.9	20.9#



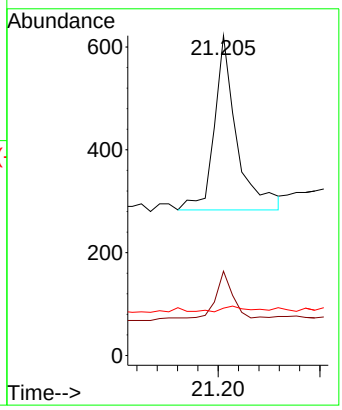


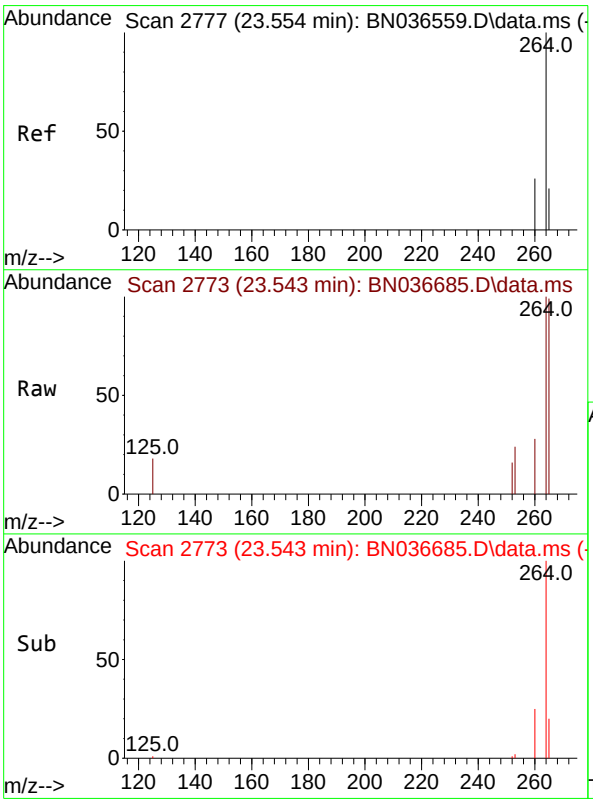
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.069 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Instrument :
BNA_N
ClientSampleId :
RE131D1-20250313DL

Tgt Ion:149 Resp: 517

Ion	Ratio	Lower	Upper
149	100		
167	19.3	20.7	31.1#
279	2.5	3.6	5.4#

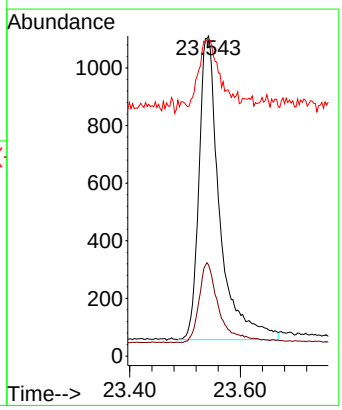




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2773
Delta R.T. -0.012 min
Lab File: BN036685.D
Acq: 18 Mar 2025 10:34

Tgt Ion:264 Resp: 2748

Ion	Ratio	Lower	Upper
264	100		
260	28.4	22.6	33.8
265	98.9	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D2-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-07	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
BN036670.D	1	03/17/25 08:48	03/17/25 22:15	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.7	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		62%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	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		67%	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	1740	7.717				
1146-65-2	Naphthalene-d8	4240	10.498				
15067-26-2	Acenaphthene-d10	2510	14.355				
1517-22-2	Phenanthrene-d10	4780	17.099				
1719-03-5	Chrysene-d12	3200	21.295				
1520-96-3	Perylene-d12	2740	23.543				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036670.D
Acq On : 17 Mar 2025 22:15
Operator : RC/JU
Sample : Q1582-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Quant Time: Mar 18 00:56:22 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

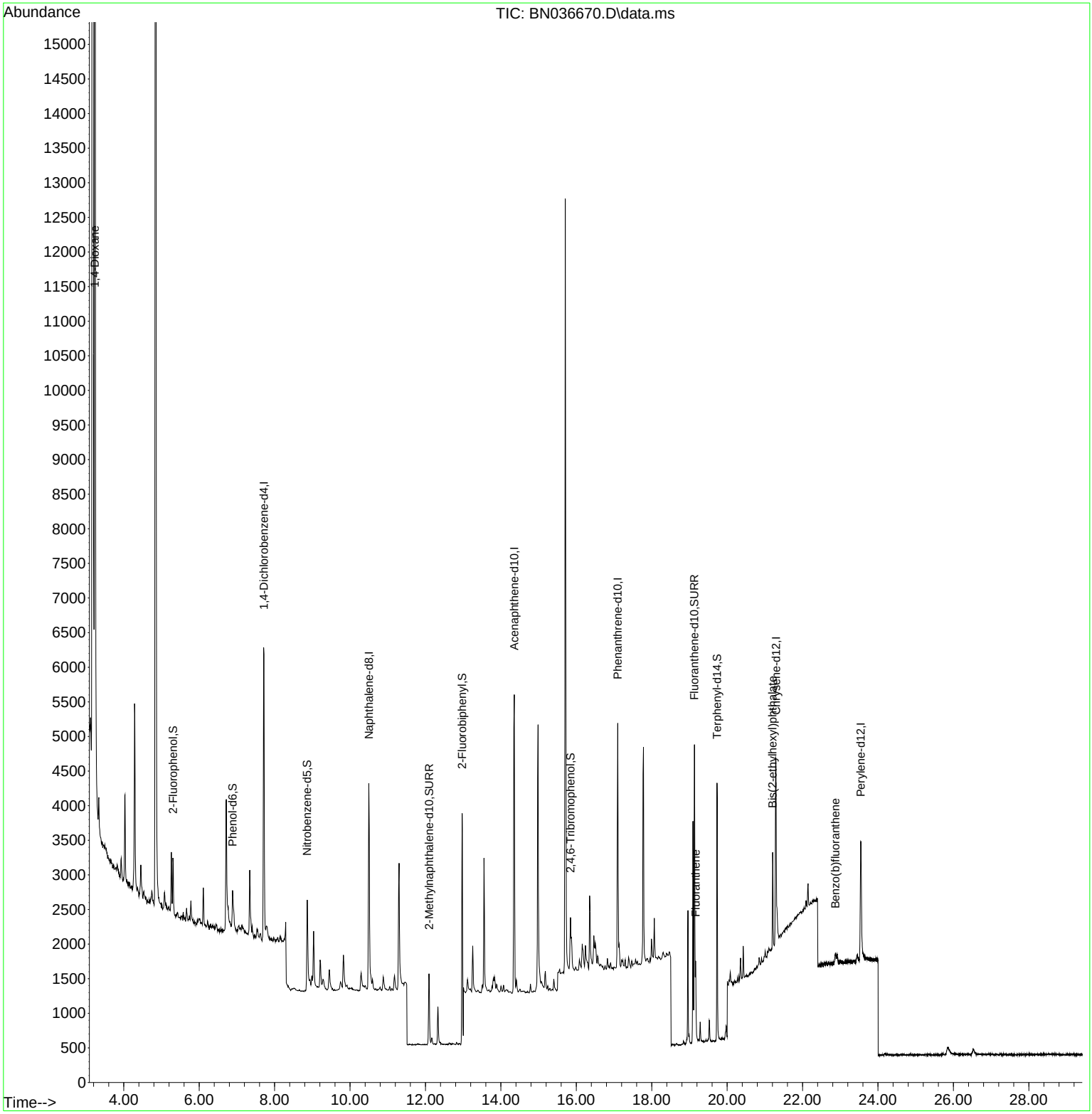
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	1739	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	4240	0.400	ng		-0.01
13) Acenaphthene-d10	14.355	164	2511	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	4784	0.400	ng		-0.01
29) Chrysene-d12	21.295	240	3199	0.400	ng		0.00
35) Perylene-d12	23.543	264	2740	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	589	0.145	ng		0.00
5) Phenol-d6	6.887	99	411	0.082	ng		-0.01
8) Nitrobenzene-d5	8.865	82	1227	0.266	ng		-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1567	0.248	ng		-0.02
14) 2,4,6-Tribromophenol	15.845	330	414	0.363	ng		-0.01
15) 2-Fluorobiphenyl	12.973	172	3893	0.267	ng		-0.02
27) Fluoranthene-d10	19.132	212	5011	0.409	ng		0.00
31) Terphenyl-d14	19.731	244	3506	0.457	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.232	88	19588	10.154	ng		95
28) Fluoranthene	19.164	202	340	0.021	ng	#	50
34) Bis(2-ethylhexyl)phtha...	21.205	149	1463	0.185	ng	#	95
37) Benzo(b)fluoranthene	22.873	252	239	0.024	ng	#	1

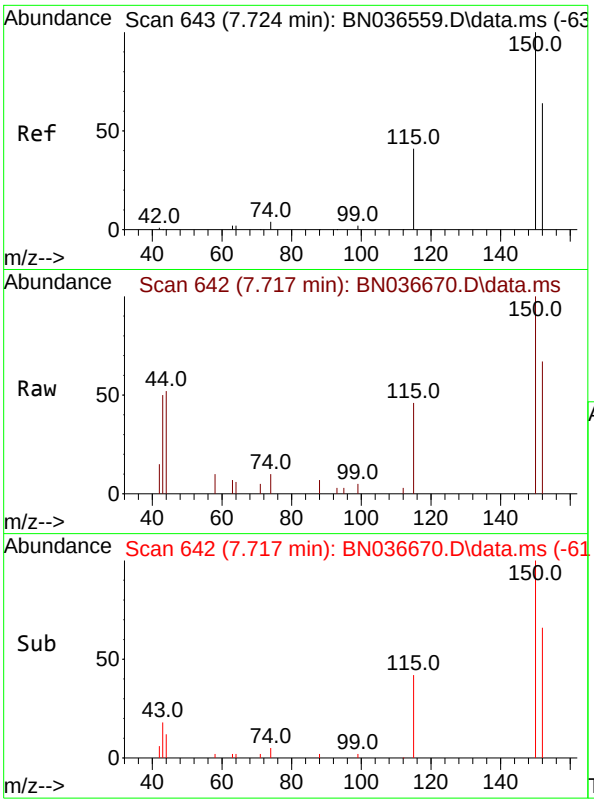
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036670.D
Acq On : 17 Mar 2025 22:15
Operator : RC/JU
Sample : Q1582-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Quant Time: Mar 18 00:56:22 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



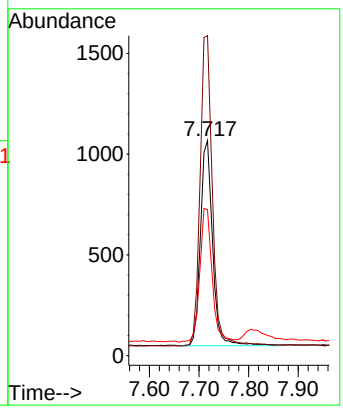


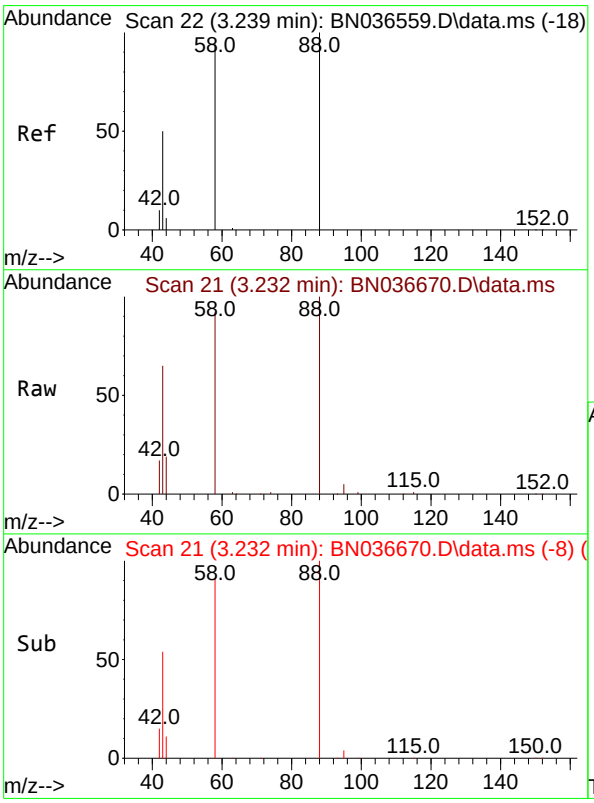
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:152 Resp: 1739

Ion	Ratio	Lower	Upper
152	100		
150	148.8	123.7	185.5
115	67.9	54.3	81.5

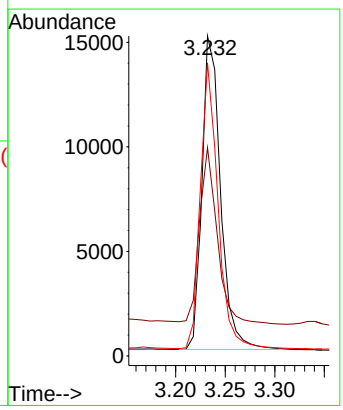


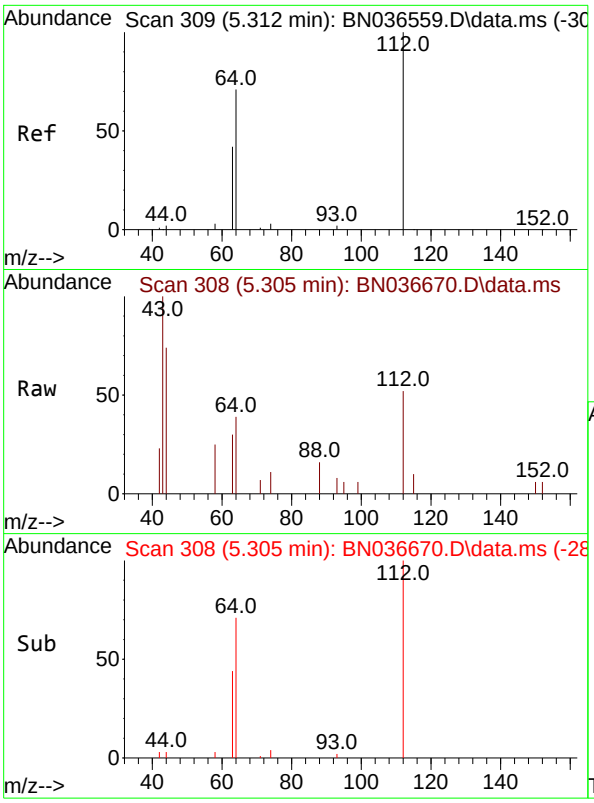


#2
1,4-Dioxane
Concen: 10.154 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion: 88 Resp: 19588

Ion	Ratio	Lower	Upper
88	100		
43	53.9	37.8	56.8
58	86.1	67.4	101.2



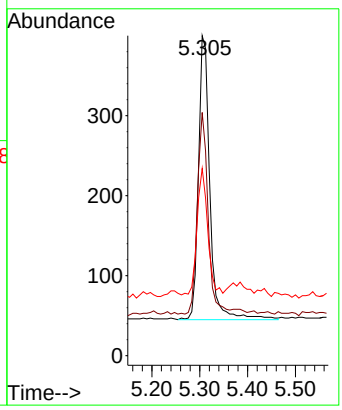


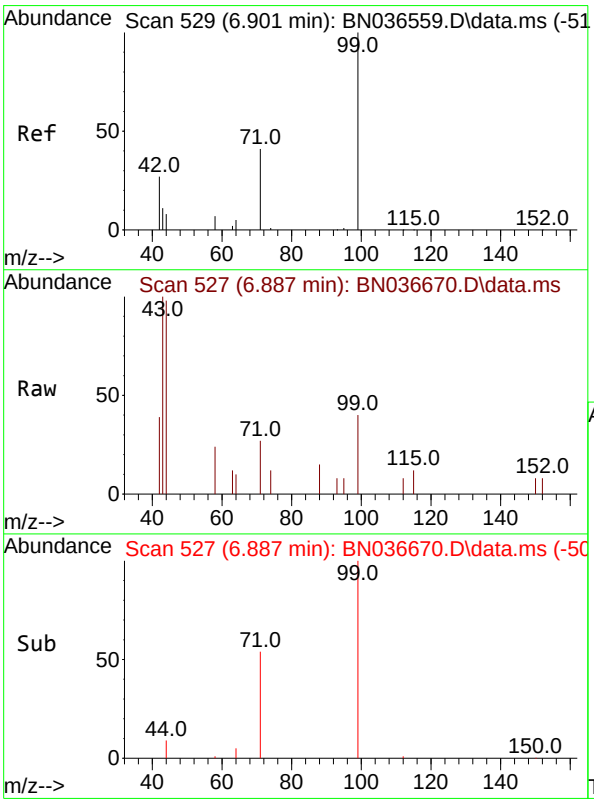
#4
2-Fluorophenol
Concen: 0.145 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:112 Resp: 589

Ion	Ratio	Lower	Upper
112	100		
64	66.2	53.1	79.7
63	43.3	31.8	47.8

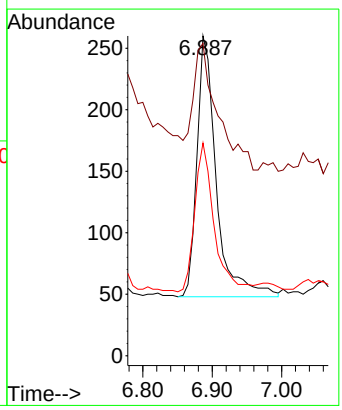


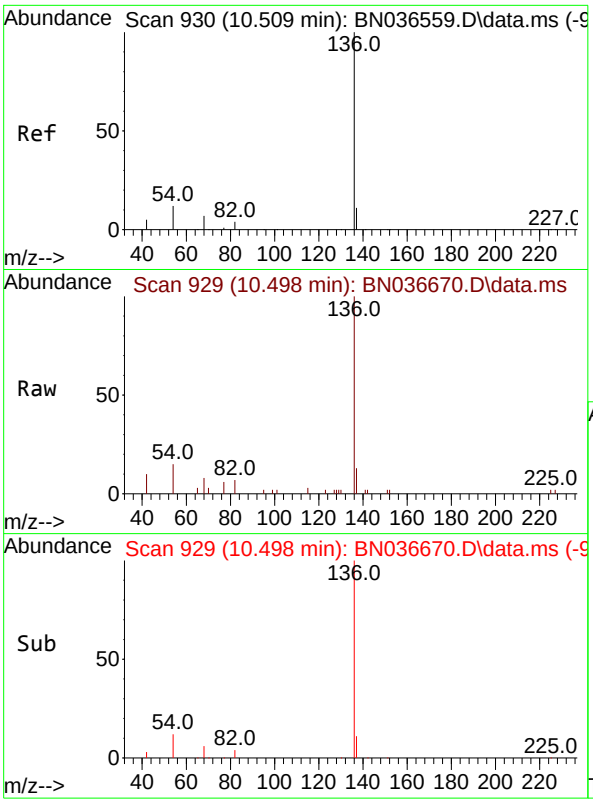


#5
Phenol-d6
Concen: 0.082 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion: 99 Resp: 411

Ion	Ratio	Lower	Upper
99	100		
42	61.8	26.5	39.7#
71	57.2	34.1	51.1#



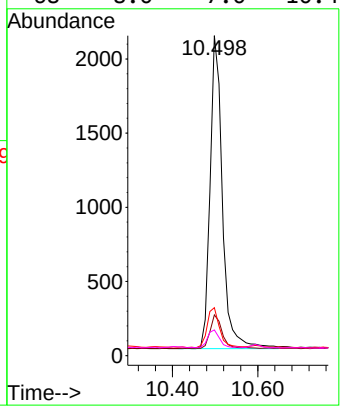


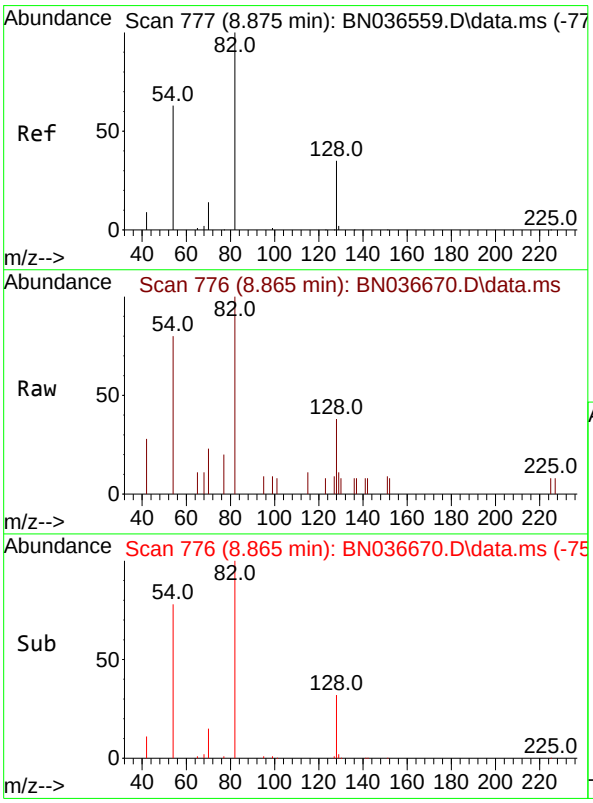
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:136 Resp: 4240

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.3	15.5
54	15.0	11.5	17.3
68	8.0	7.0	10.4

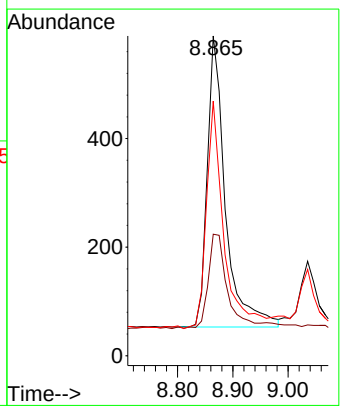


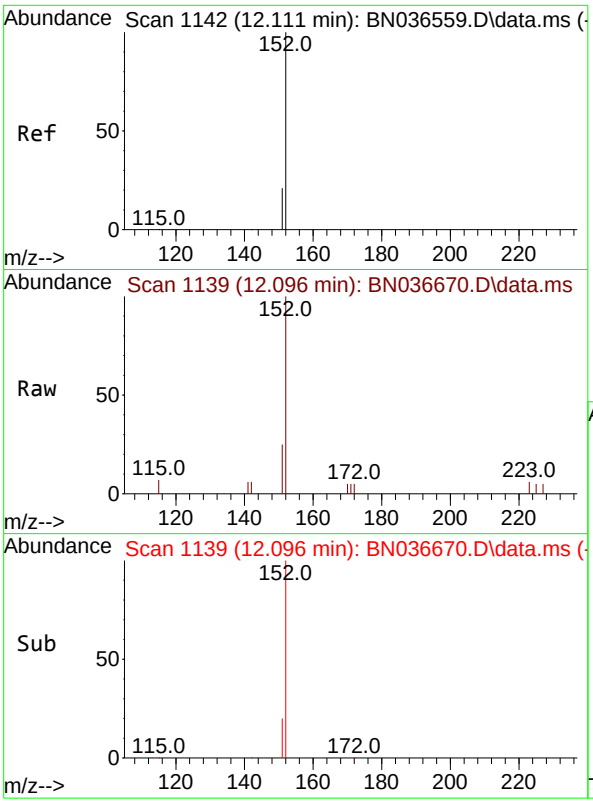


#8
Nitrobenzene-d5
Concen: 0.266 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion: 82 Resp: 1227

Ion	Ratio	Lower	Upper
82	100		
128	38.0	30.6	45.8
54	79.6	52.2	78.4#



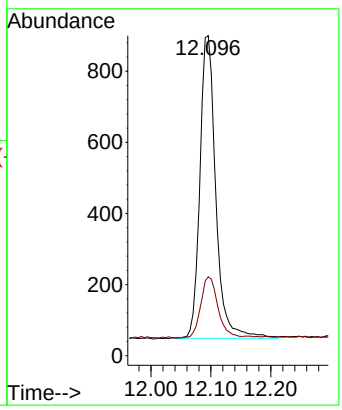


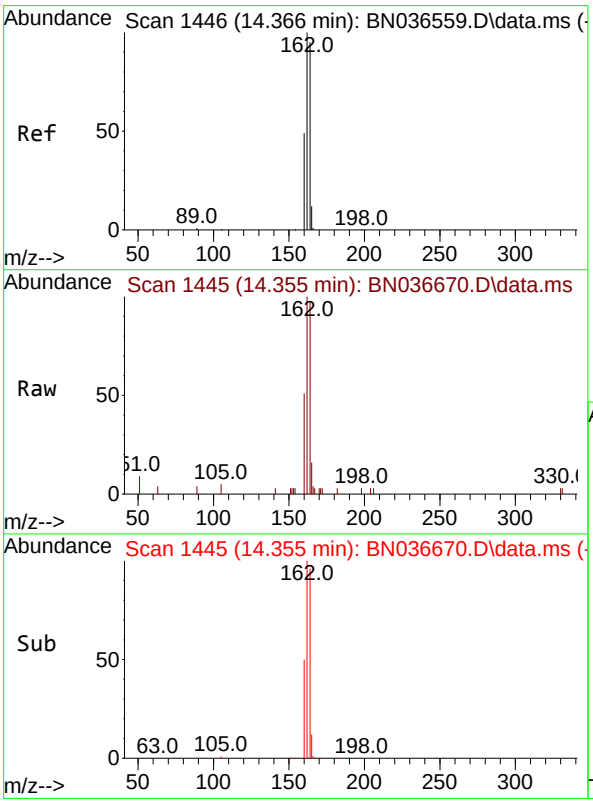
#11
2-Methylnaphthalene-d10
Concen: 0.248 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:152 Resp: 1567

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.0	25.6

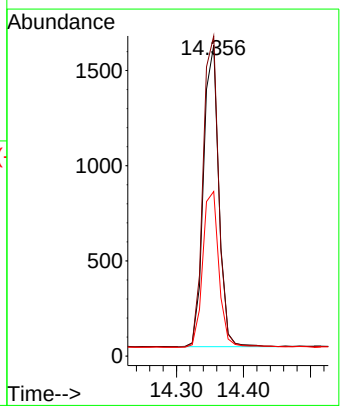


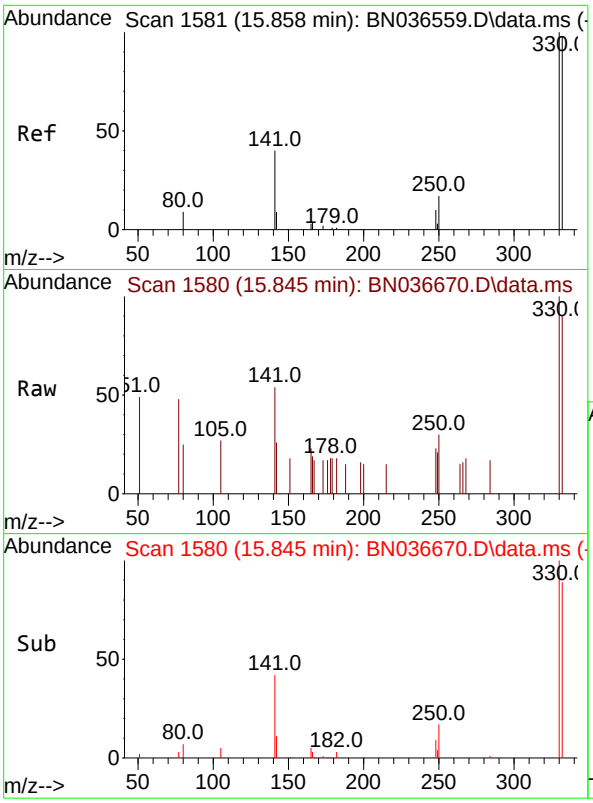


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:164 Resp: 2511

Ion	Ratio	Lower	Upper
164	100		
162	103.0	84.2	126.2
160	53.0	42.2	63.2



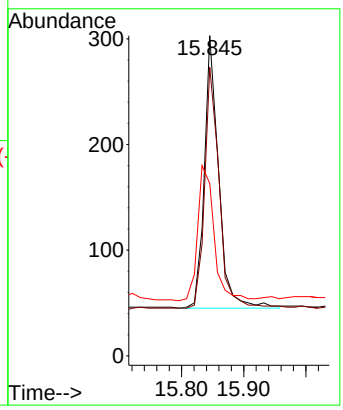


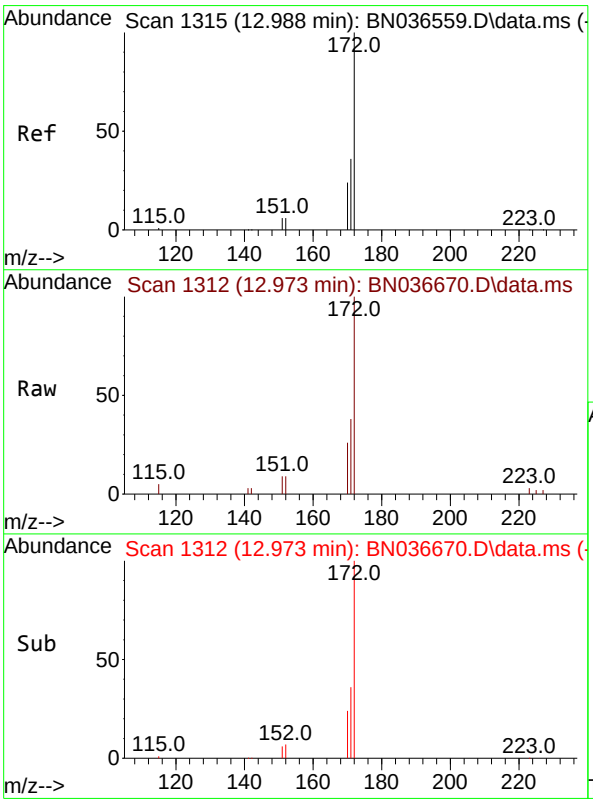
#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:330 Resp: 414

Ion	Ratio	Lower	Upper
330	100		
332	90.3	75.2	112.8
141	57.0	43.4	65.2

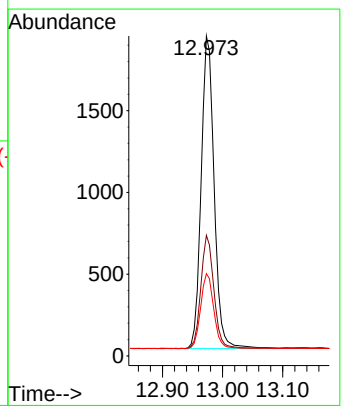


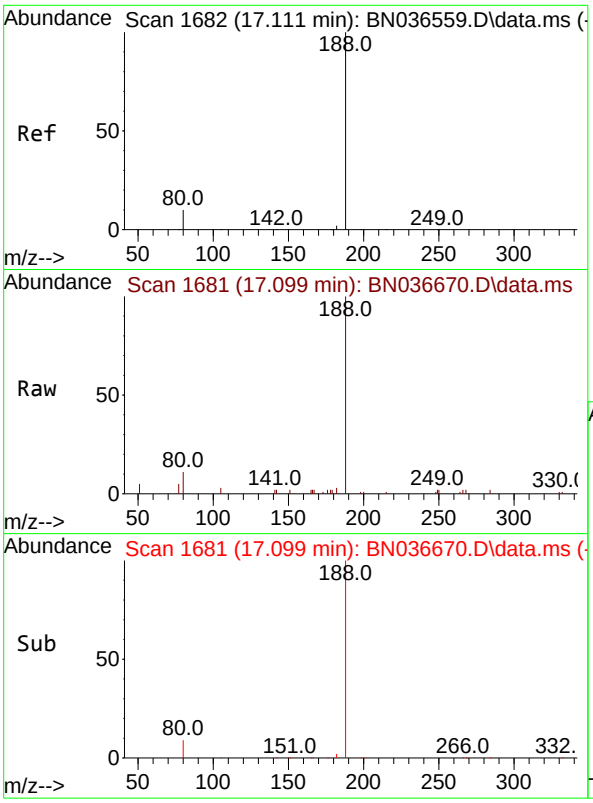


#15
2-Fluorobiphenyl
Concen: 0.267 ng
RT: 12.973 min Scan# 1312
Delta R.T. -0.015 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:172 Resp: 3893

Ion	Ratio	Lower	Upper
172	100		
171	37.7	29.5	44.3
170	25.7	20.2	30.4



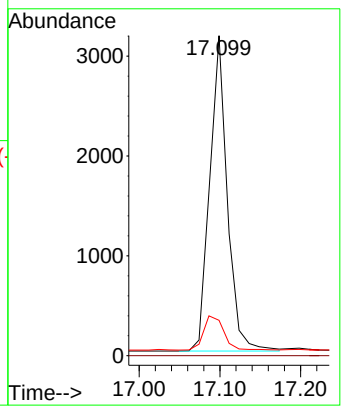


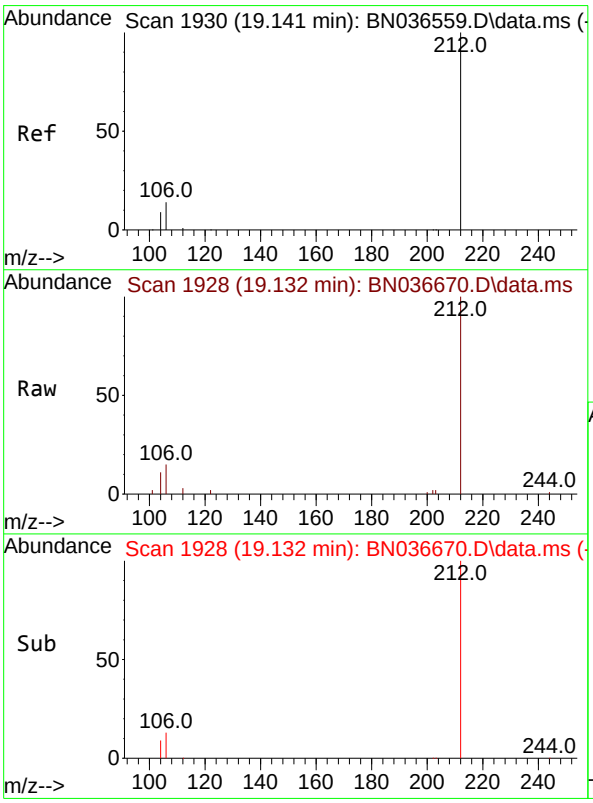
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:188 Resp: 4784

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	8.8	13.2

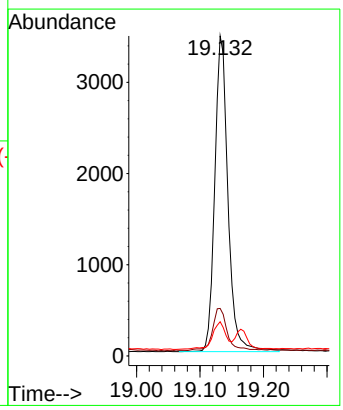


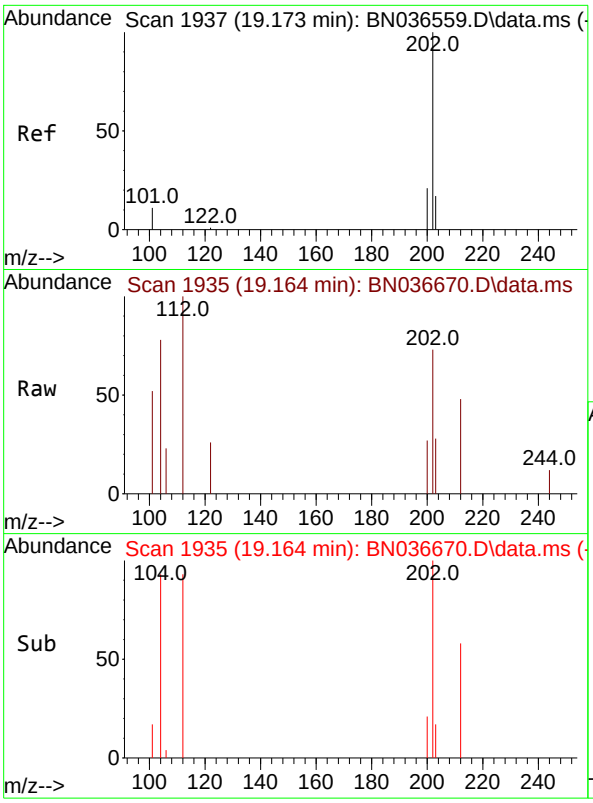


#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:212 Resp: 5011

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.8	17.6
104	9.1	7.3	10.9



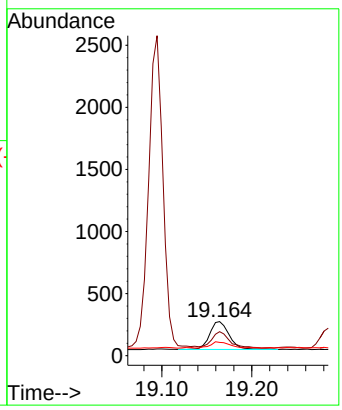


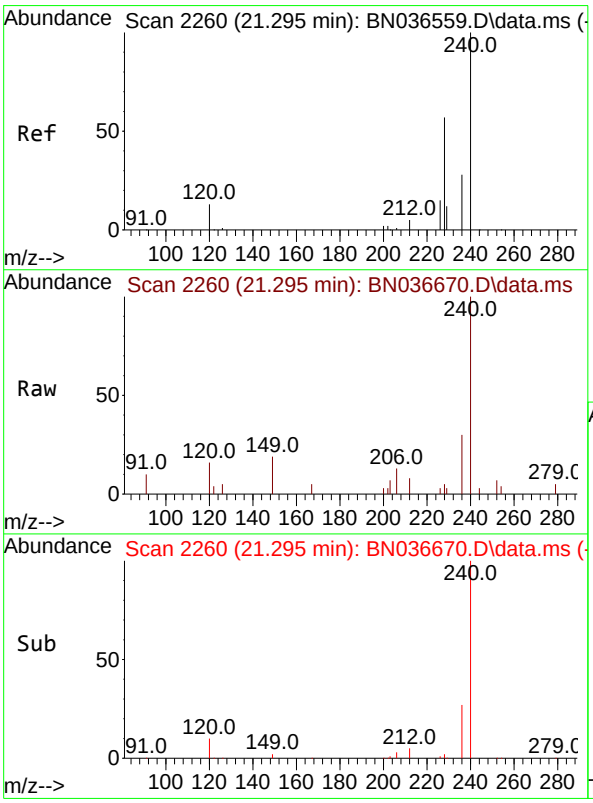
#28
Fluoranthene
Concen: 0.021 ng
RT: 19.164 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:202 Resp: 340

Ion	Ratio	Lower	Upper
202	100		
101	53.5	9.4	14.0#
203	20.9	13.5	20.3#

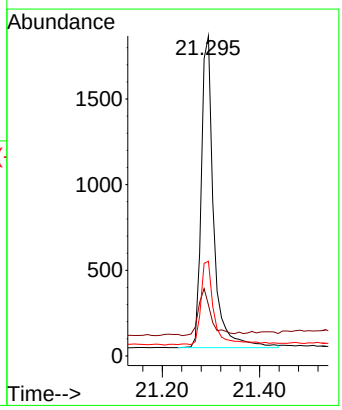


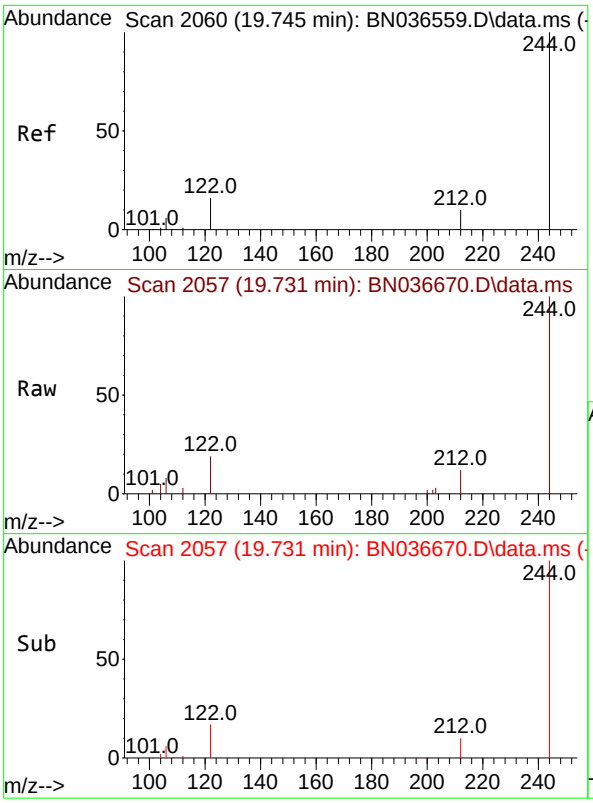


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:240 Resp: 3199

Ion	Ratio	Lower	Upper
240	100		
120	16.0	14.6	22.0
236	29.6	24.1	36.1



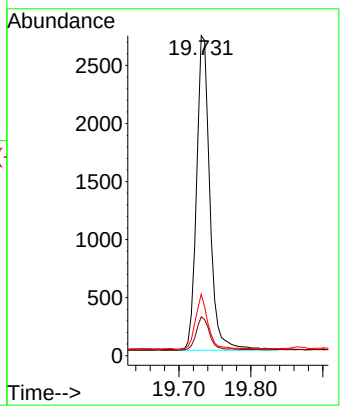


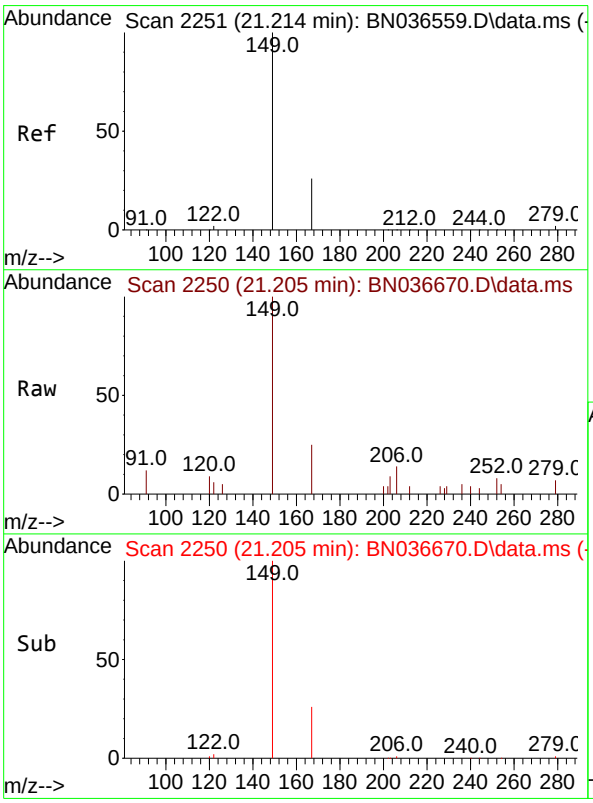
#31
Terphenyl-d14
Concen: 0.457 ng
RT: 19.731 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:244 Resp: 3506

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	19.2	13.9	20.9

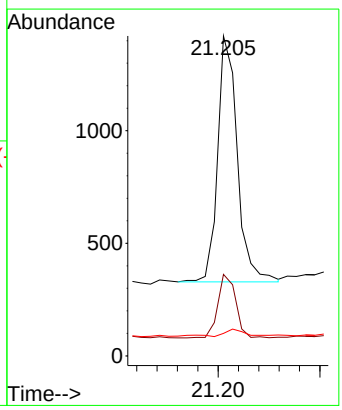


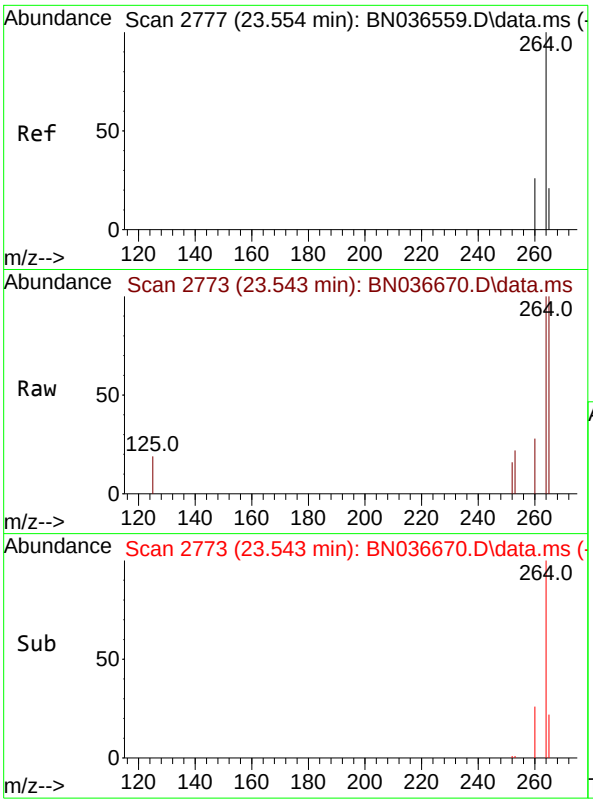


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.185 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:149 Resp: 1463

Ion	Ratio	Lower	Upper
149	100		
167	23.4	20.7	31.1
279	2.9	3.6	5.4#



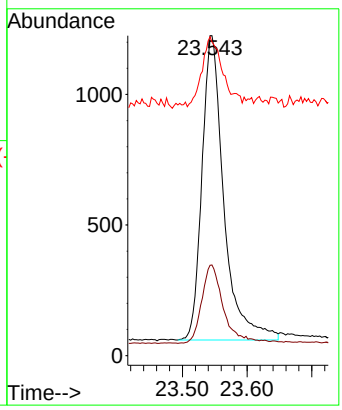


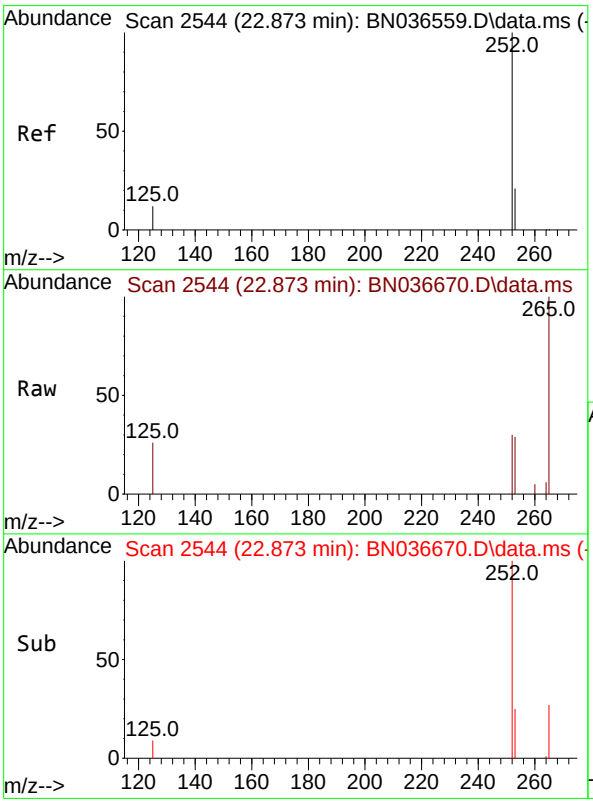
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313

Tgt Ion:264 Resp: 2740

Ion	Ratio	Lower	Upper
264	100		
260	28.2	22.6	33.8
265	99.7	88.1	132.1

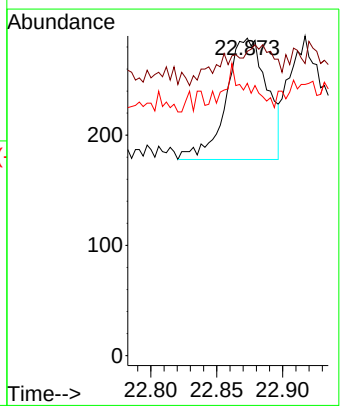




#37
Benzo(b)fluoranthene
Concen: 0.024 ng
RT: 22.873 min Scan# 2544
Delta R.T. 0.000 min
Lab File: BN036670.D
Acq: 17 Mar 2025 22:15

Tgt Ion:252 Resp: 239

Ion	Ratio	Lower	Upper
252	100		
253	95.8	23.9	35.9#
125	85.8	17.4	26.2#



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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D2-20250313DL	SDG No.:	Q1582
Lab Sample ID:	Q1582-07DL	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
BN036686.D	5	03/17/25 08:48	03/18/25 11:10	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	11.6	D	0.36	1.10	1.10	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2030	7.71				
1146-65-2	Naphthalene-d8	4850	10.498				
15067-26-2	Acenaphthene-d10	3030	14.356				
1517-22-2	Phenanthrene-d10	6210	17.099				
1719-03-5	Chrysene-d12	4360	21.286				
1520-96-3	Perylene-d12	3810	23.537				

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\BN031825\
Data File : BN036686.D
Acq On : 18 Mar 2025 11:10
Operator : RC/JU
Sample : Q1582-07DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Quant Time: Mar 18 11:42:31 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

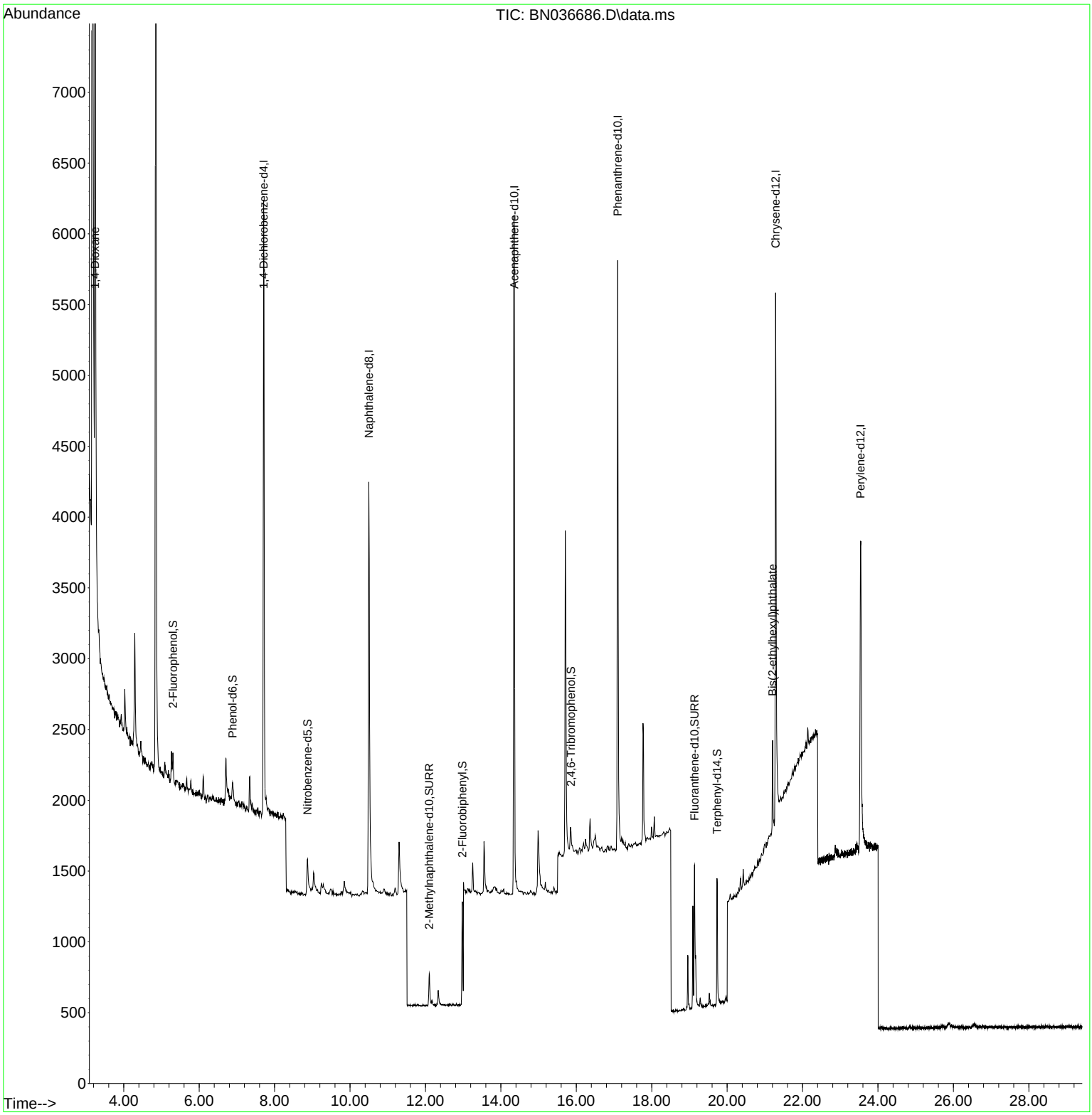
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2029	0.400	ng	-0.01
7) Naphthalene-d8	10.498	136	4853	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	3032	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	6208	0.400	ng	-0.01
29) Chrysene-d12	21.286	240	4364	0.400	ng	0.00
35) Perylene-d12	23.537	264	3806	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	158	0.033	ng	0.00
5) Phenol-d6	6.887	99	120	0.021	ng	-0.01
8) Nitrobenzene-d5	8.875	82	331	0.063	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	394	0.055	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	115	0.084	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	1040	0.059	ng	0.00
27) Fluoranthene-d10	19.137	212	1415	0.089	ng	0.00
31) Terphenyl-d14	19.731	244	976	0.093	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.240	88	4940	2.195	ng	93
34) Bis(2-ethylhexyl)phtha...	21.205	149	709	0.066	ng	# 93

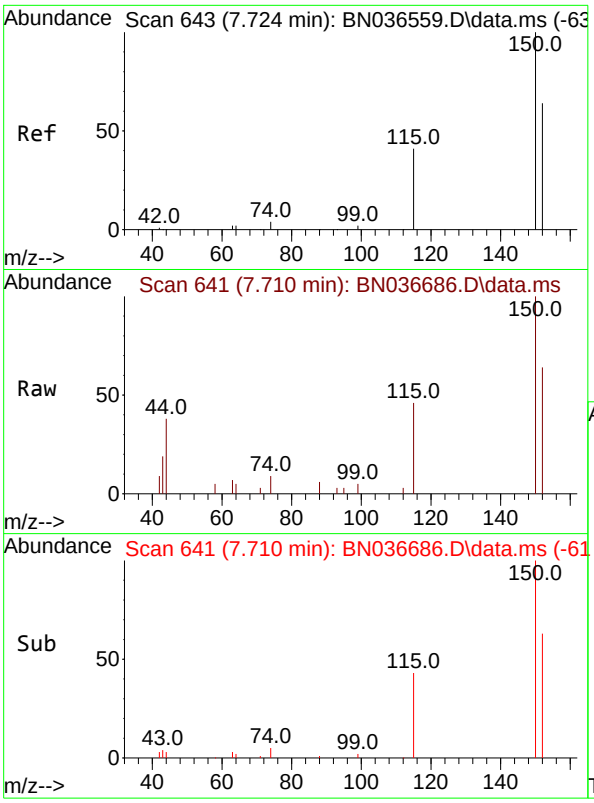
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036686.D
Acq On : 18 Mar 2025 11:10
Operator : RC/JU
Sample : Q1582-07DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Quant Time: Mar 18 11:42:31 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



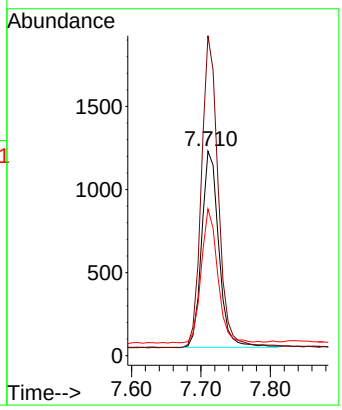


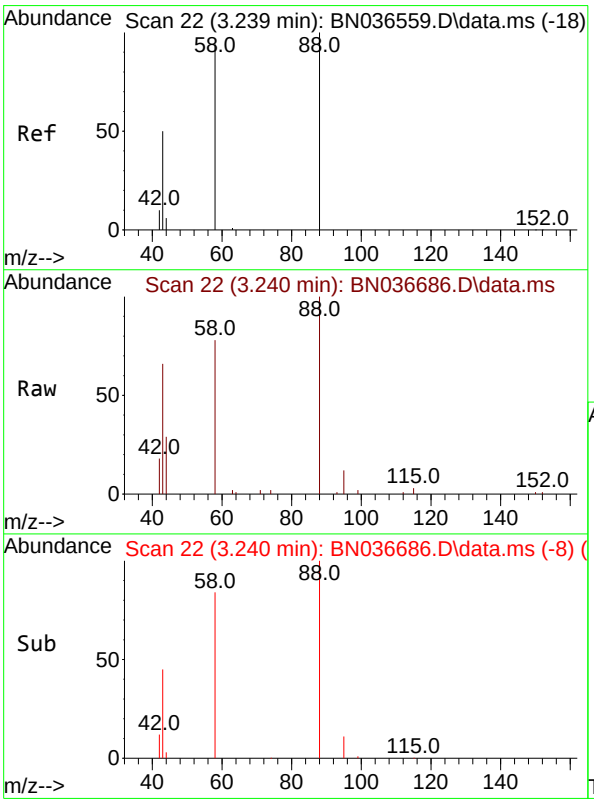
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:152 Resp: 2029

Ion	Ratio	Lower	Upper
152	100		
150	156.5	123.7	185.5
115	71.7	54.3	81.5

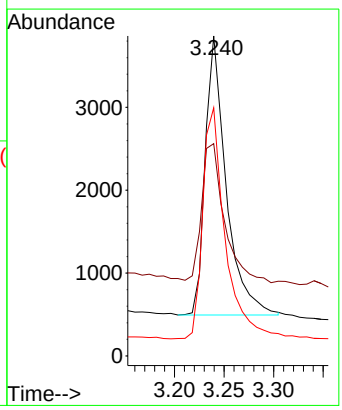


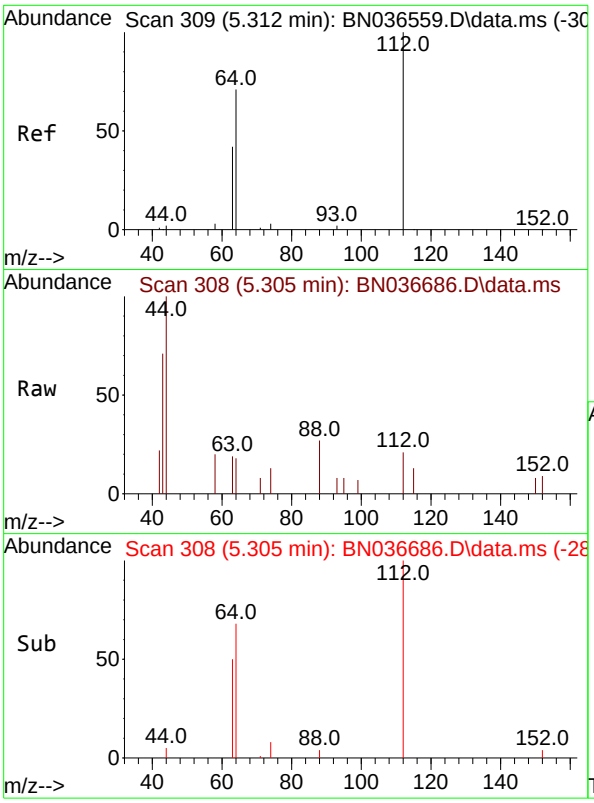


#2
1,4-Dioxane
Concen: 2.195 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.001 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion: 88 Resp: 4940

Ion	Ratio	Lower	Upper
88	100		
43	54.3	37.8	56.8
58	88.7	67.4	101.2



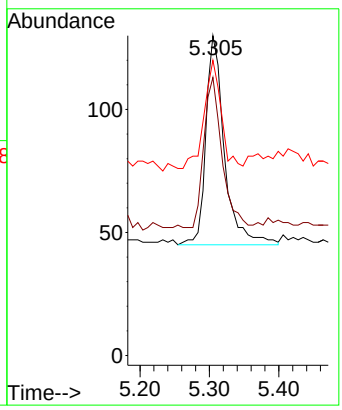


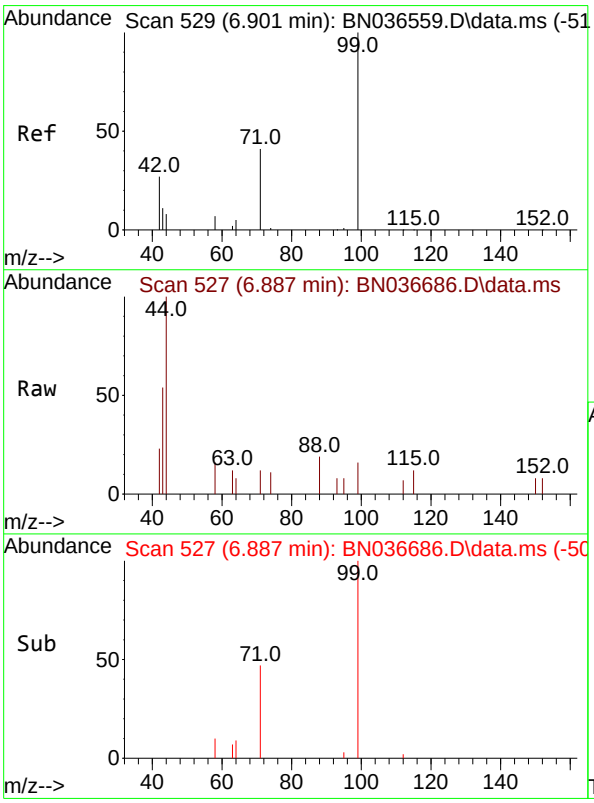
#4
2-Fluorophenol
Concen: 0.033 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:112 Resp: 158

Ion	Ratio	Lower	Upper
112	100		
64	69.6	53.1	79.7
63	47.5	31.8	47.8

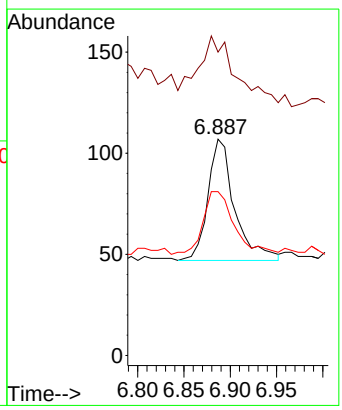


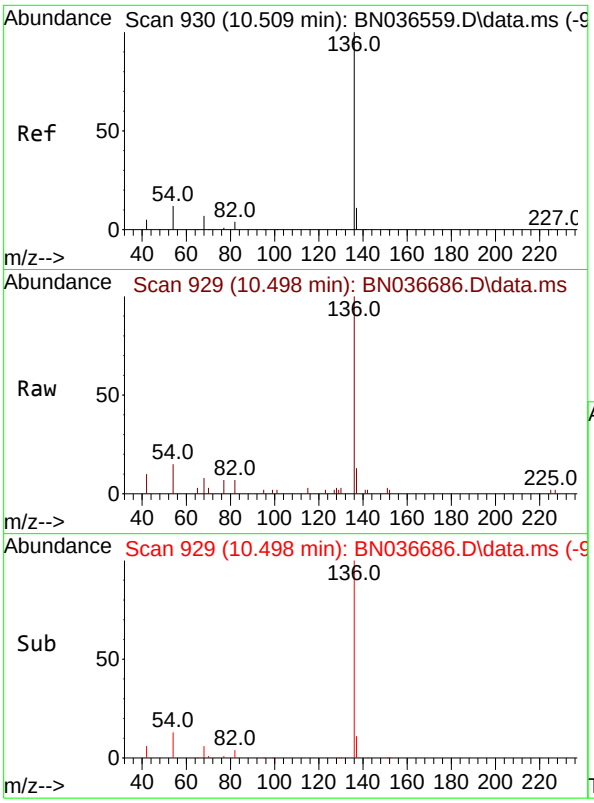


#5
Phenol-d6
Concen: 0.021 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion: 99 Resp: 120

Ion	Ratio	Lower	Upper
99	100		
42	82.5	26.5	39.7#
71	60.0	34.1	51.1#



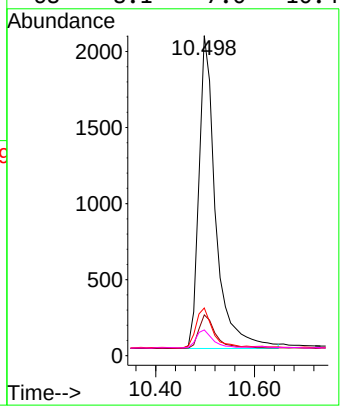


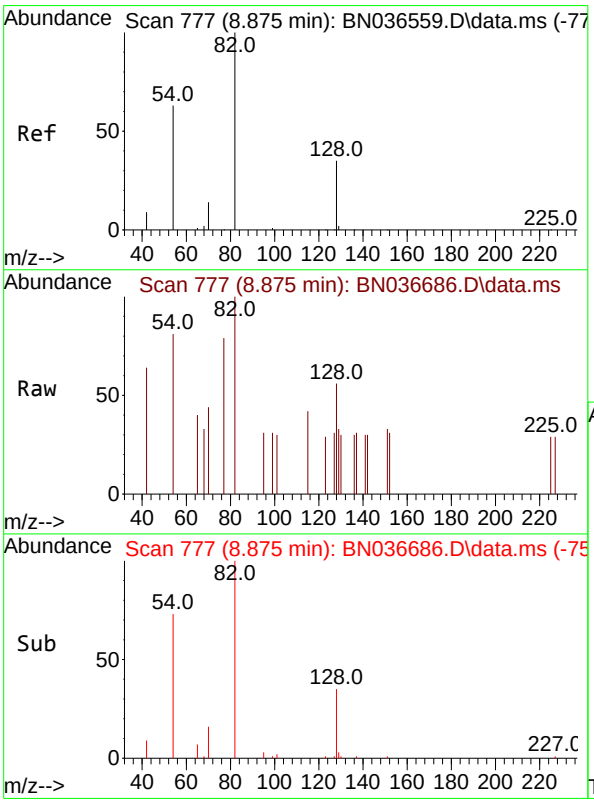
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:136 Resp: 4853

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.3	15.5
54	14.9	11.5	17.3
68	8.1	7.0	10.4

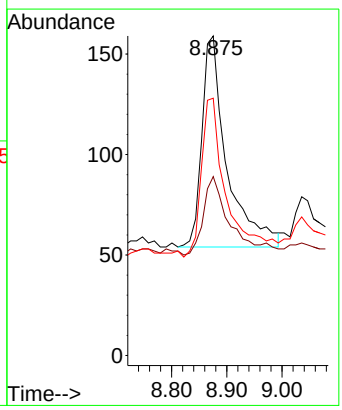


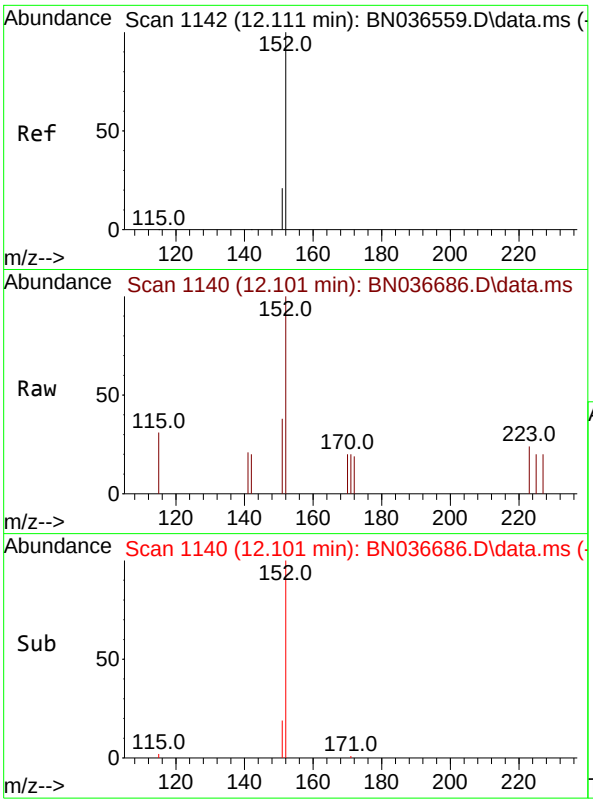


#8
Nitrobenzene-d5
Concen: 0.063 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion: 82 Resp: 331

Ion	Ratio	Lower	Upper
82	100		
128	56.0	30.6	45.8#
54	80.5	52.2	78.4#



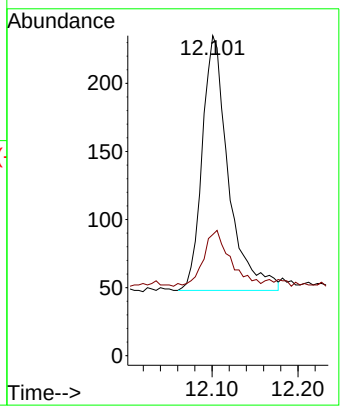


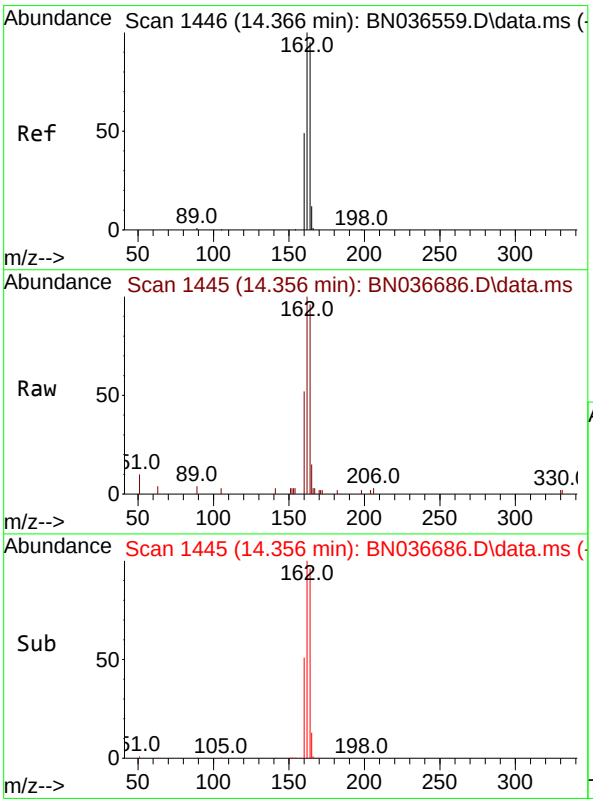
#11
2-Methylnaphthalene-d10
Concen: 0.055 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:152 Resp: 394

Ion	Ratio	Lower	Upper
152	100		
151	22.6	17.0	25.6

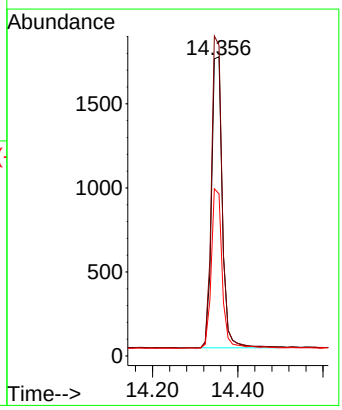


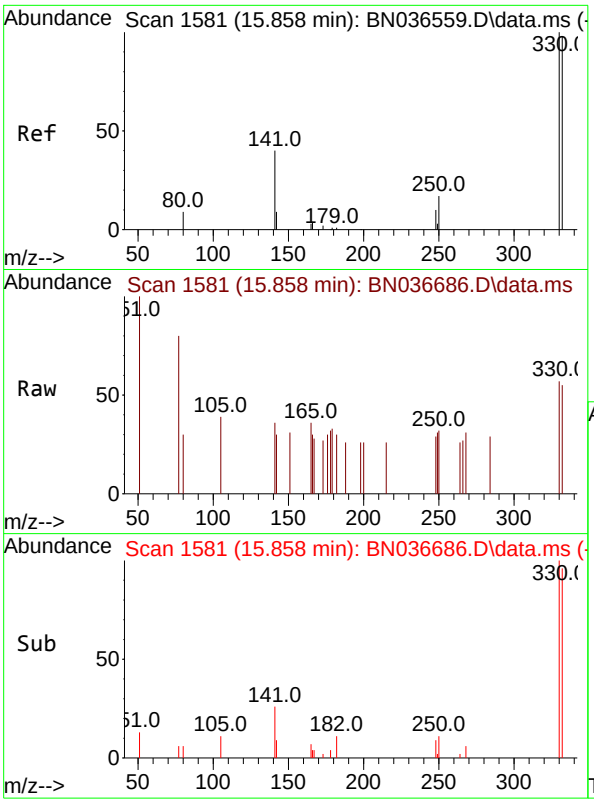


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.010 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:164 Resp: 3032

Ion	Ratio	Lower	Upper
164	100		
162	103.9	84.2	126.2
160	54.2	42.2	63.2



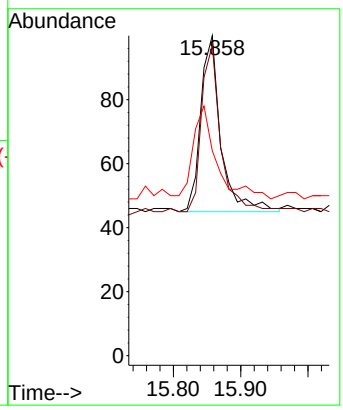


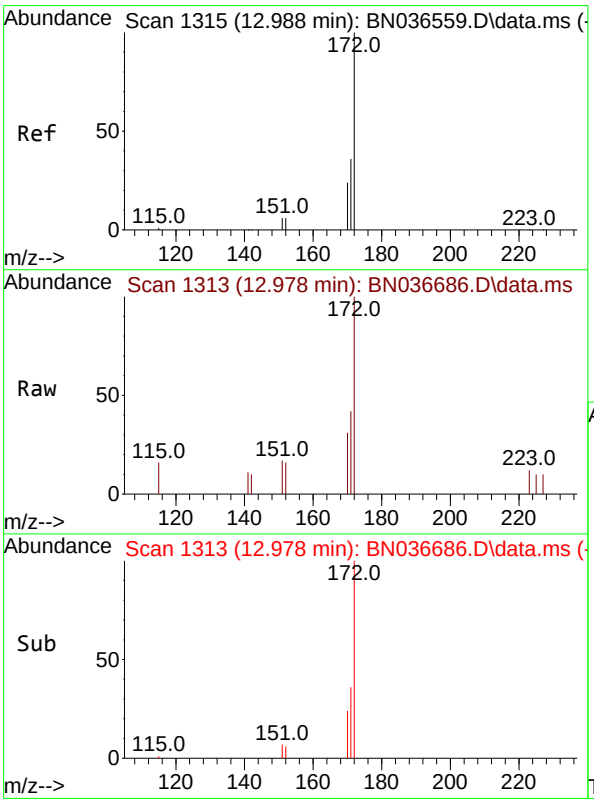
#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.858 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:330 Resp: 115

Ion	Ratio	Lower	Upper
330	100		
332	92.2	75.2	112.8
141	60.0	43.4	65.2

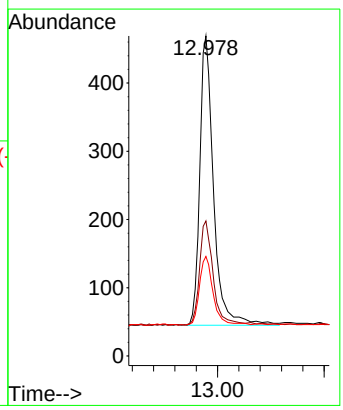


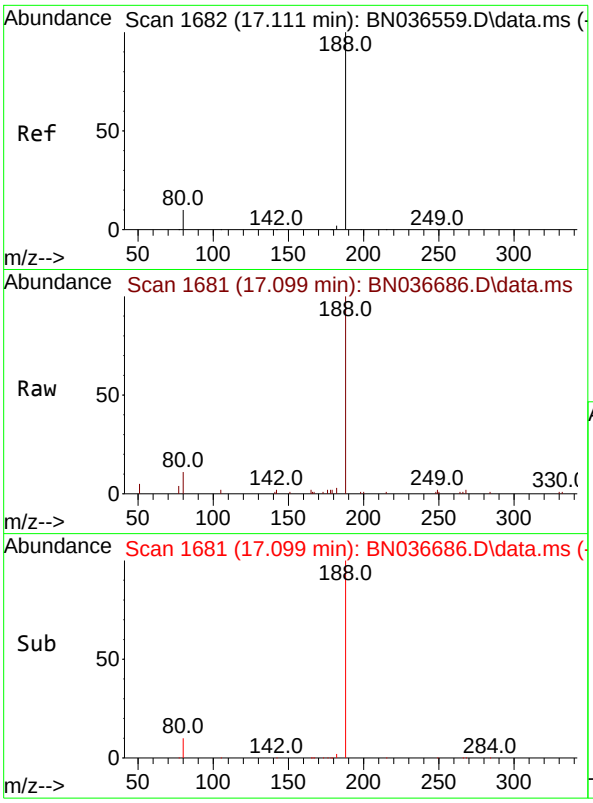


#15
2-Fluorobiphenyl
Concen: 0.059 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:172 Resp: 1040

Ion	Ratio	Lower	Upper
172	100		
171	42.2	29.5	44.3
170	31.1	20.2	30.4#



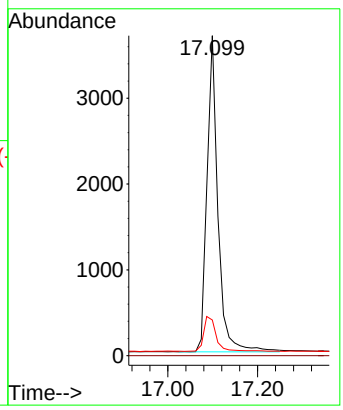


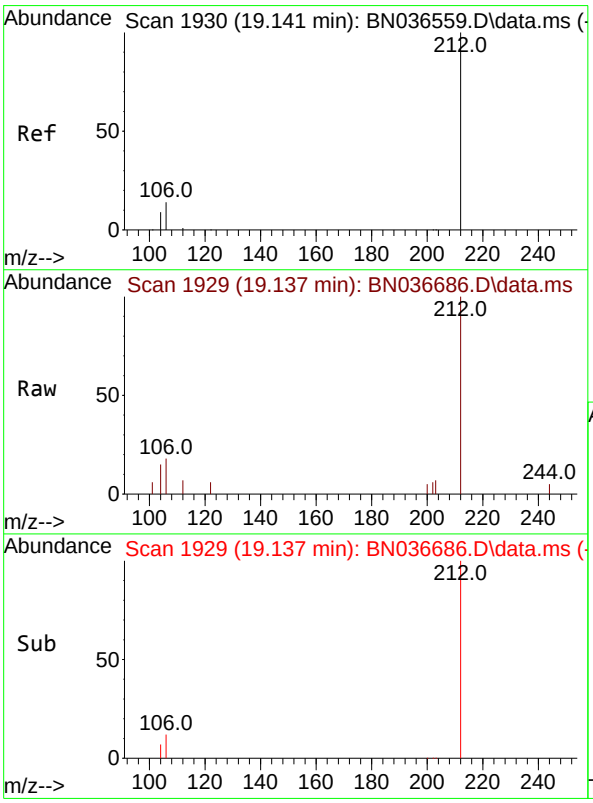
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:188 Resp: 6208

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	8.8	13.2

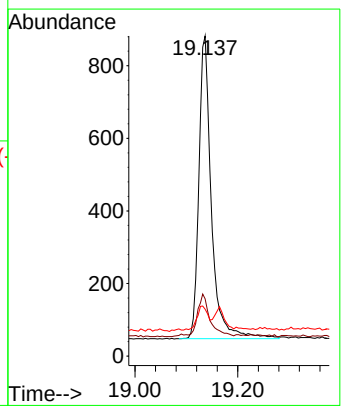


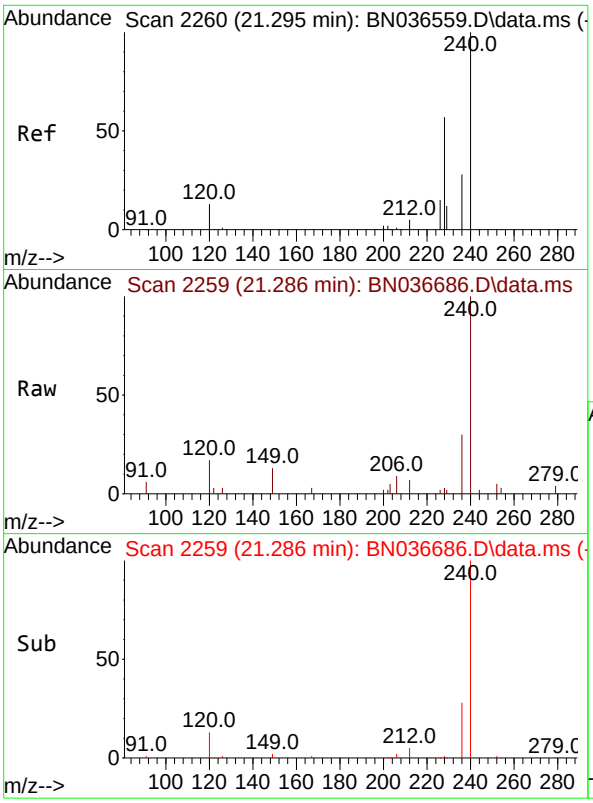


#27
Fluoranthene-d10
Concen: 0.089 ng
RT: 19.137 min Scan# 1929
Delta R.T. -0.004 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:212 Resp: 1415

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	6.8	7.3	10.9#



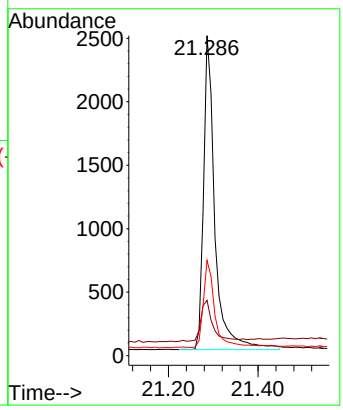


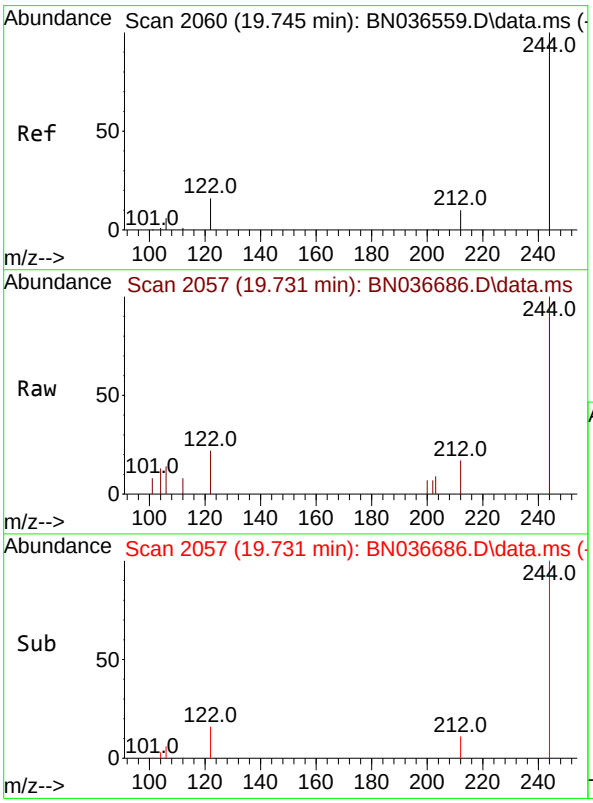
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:240 Resp: 4364

Ion	Ratio	Lower	Upper
240	100		
120	17.3	14.6	22.0
236	29.8	24.1	36.1

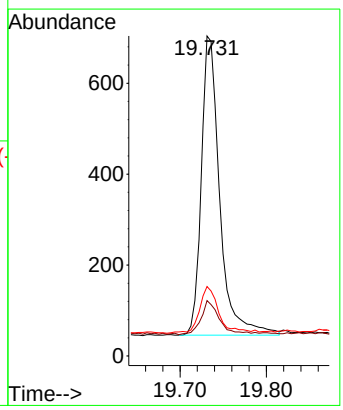


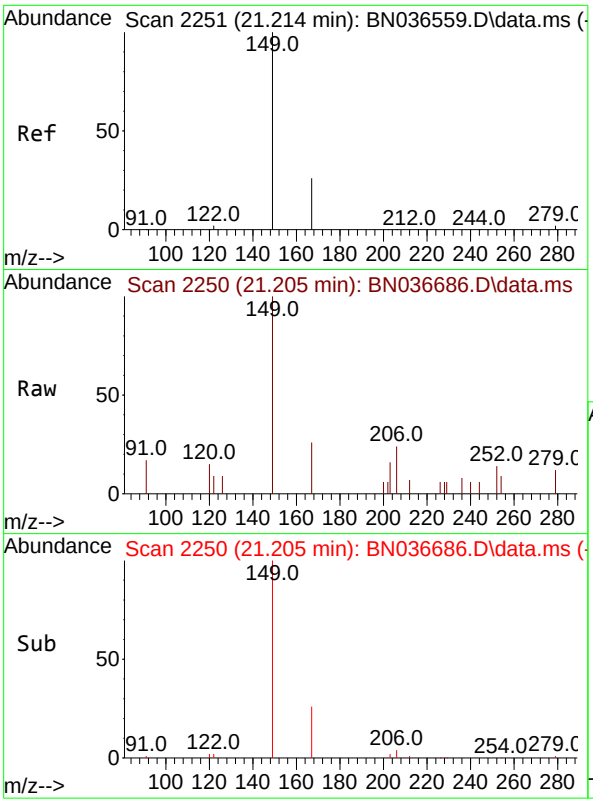


#31
Terphenyl-d14
Concen: 0.093 ng
RT: 19.731 min Scan# 2057
Delta R.T. -0.014 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:244 Resp: 976

Ion	Ratio	Lower	Upper
244	100		
212	17.3	9.6	14.4#
122	21.7	13.9	20.9#



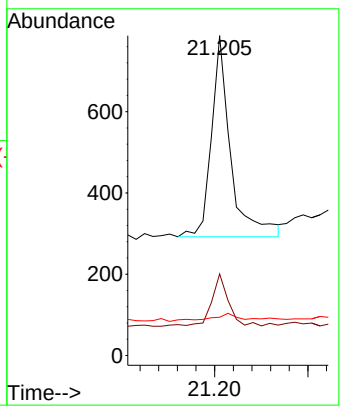


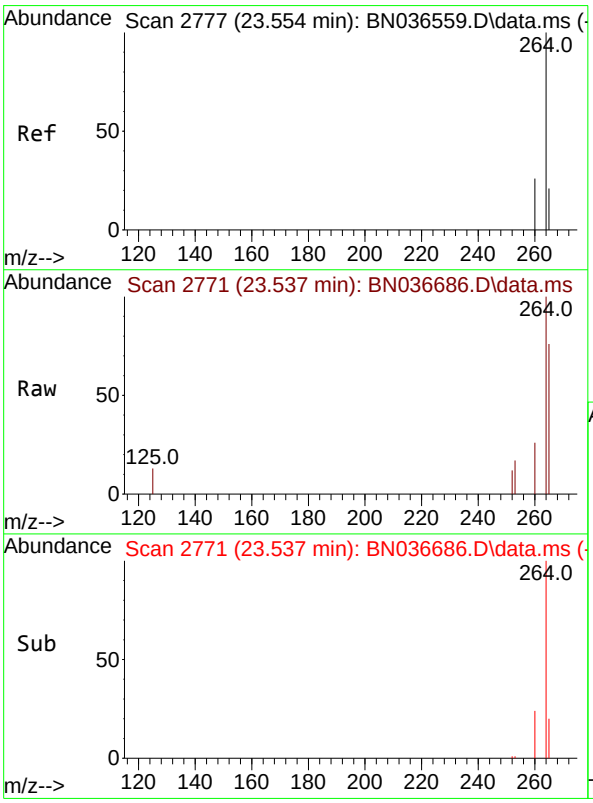
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.066 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Instrument :
BNA_N
ClientSampleId :
RE131D2-20250313DL

Tgt Ion:149 Resp: 709

Ion	Ratio	Lower	Upper
149	100		
167	22.0	20.7	31.1
279	6.5	3.6	5.4#

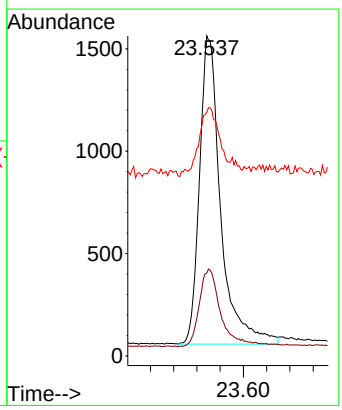




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.537 min Scan# 2771
Delta R.T. -0.017 min
Lab File: BN036686.D
Acq: 18 Mar 2025 11:10

Tgt Ion:264 Resp: 3806

Ion	Ratio	Lower	Upper
264	100		
260	25.9	22.6	33.8
265	76.2	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D3-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-08	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
BN036671.D	1	03/17/25 08:48	03/17/25 22:51	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		137%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.717				
1146-65-2	Naphthalene-d8	3710	10.498				
15067-26-2	Acenaphthene-d10	2270	14.355				
1517-22-2	Phenanthrene-d10	4570	17.099				
1719-03-5	Chrysene-d12	3100	21.295				
1520-96-3	Perylene-d12	2530	23.545				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036671.D
Acq On : 17 Mar 2025 22:51
Operator : RC/JU
Sample : Q1582-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Quant Time: Mar 18 00:56:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

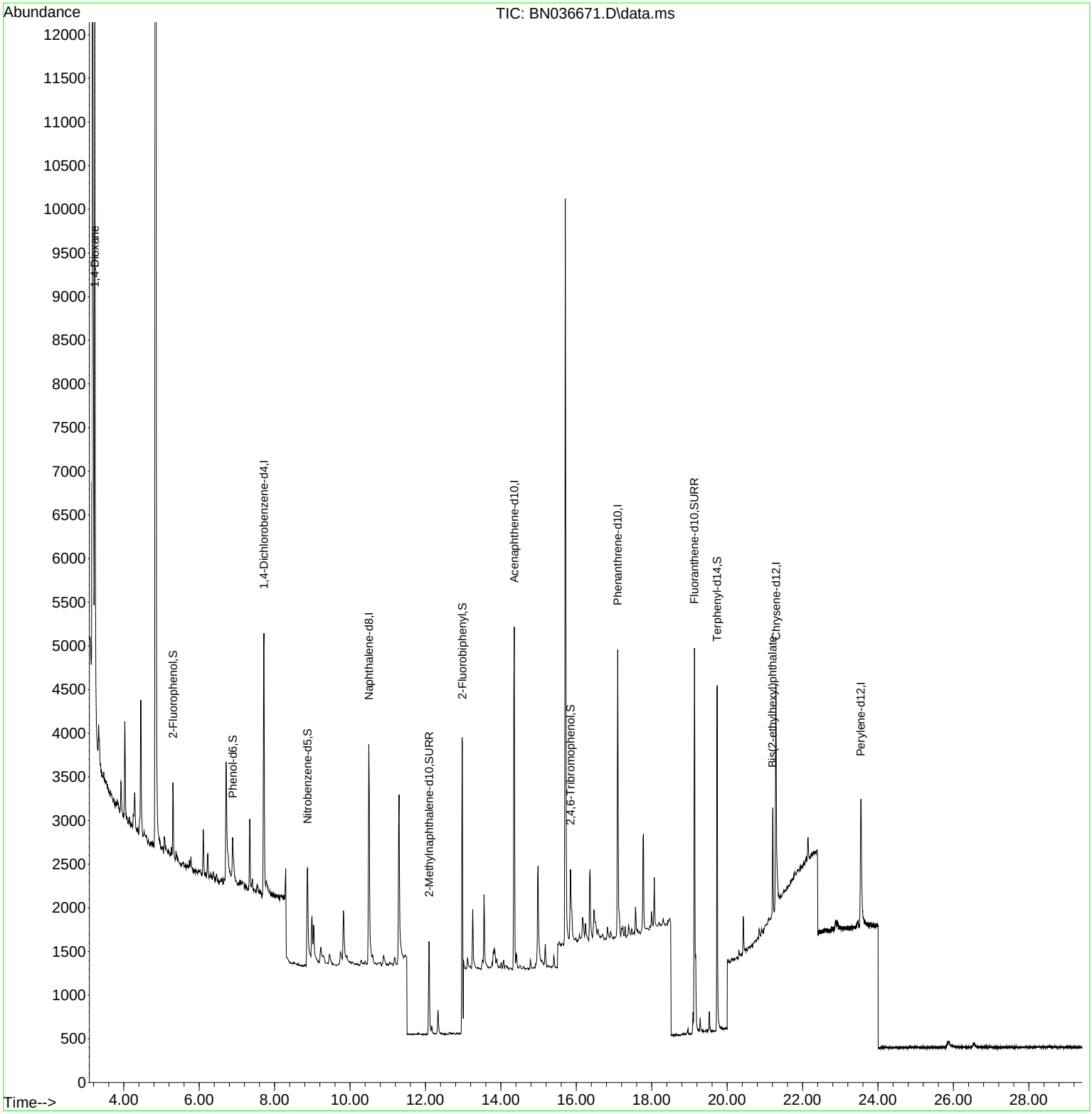
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1476	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3714	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2273	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4572	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3100	0.400	ng	0.00
35) Perylene-d12	23.545	264	2528	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	634	0.184	ng	0.00
5) Phenol-d6	6.894	99	427	0.100	ng	0.00
8) Nitrobenzene-d5	8.875	82	1302	0.322	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1688	0.306	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	452	0.438	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4445	0.336	ng	-0.01
27) Fluoranthene-d10	19.132	212	5436	0.464	ng	0.00
31) Terphenyl-d14	19.736	244	4076	0.549	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.232	88	4082	2.493	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.205	149	1400	0.182	ng	99

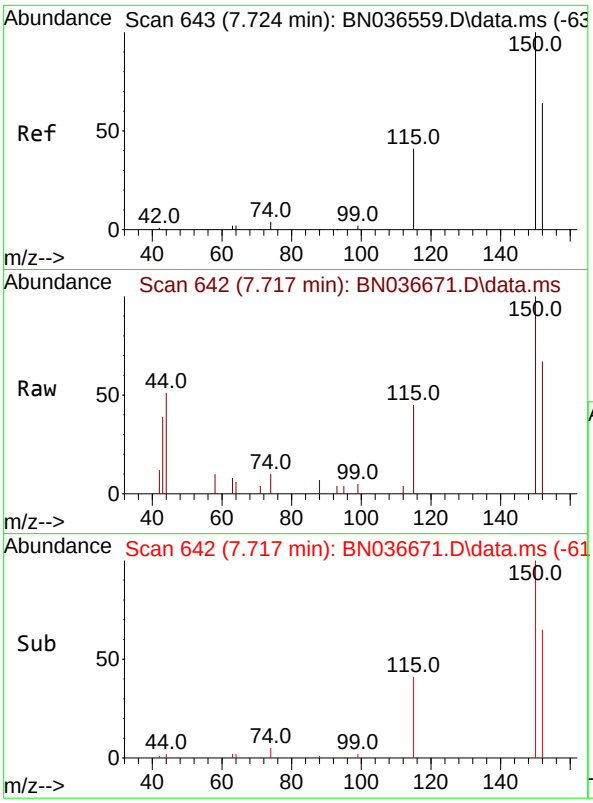
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036671.D
Acq On : 17 Mar 2025 22:51
Operator : RC/JU
Sample : Q1582-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Quant Time: Mar 18 00:56:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



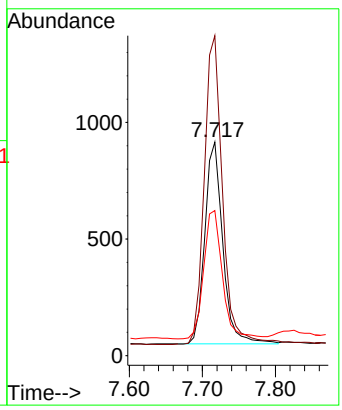


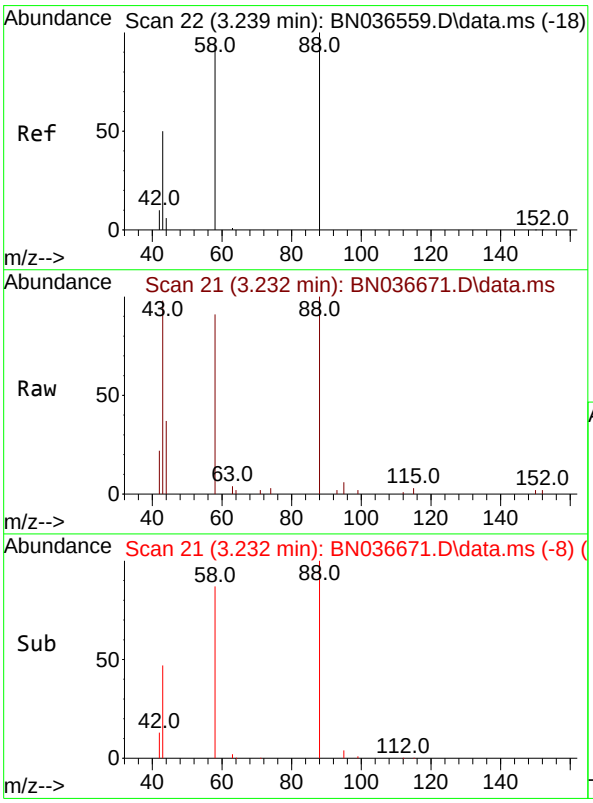
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:152 Resp: 1476

Ion	Ratio	Lower	Upper
152	100		
150	149.8	123.7	185.5
115	67.9	54.3	81.5

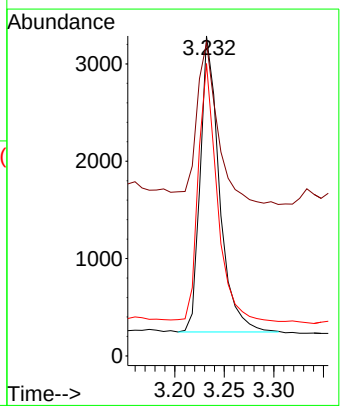


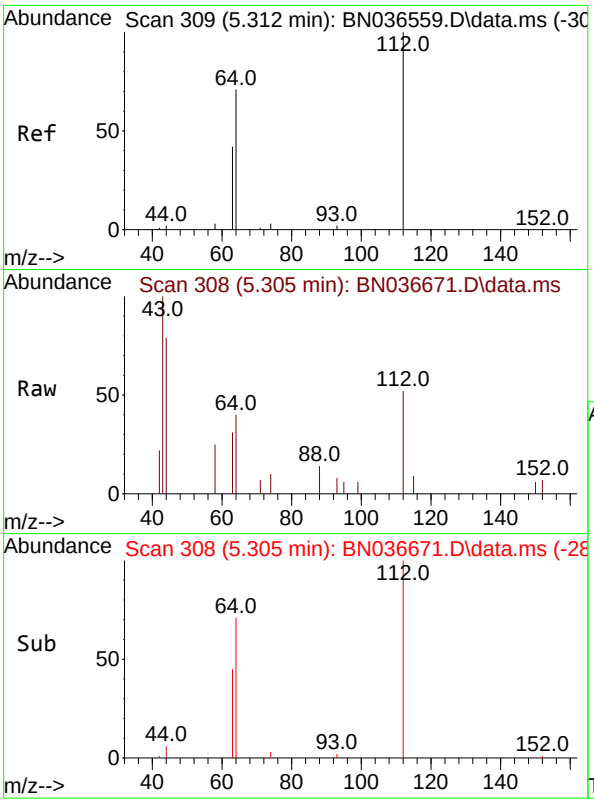


#2
1,4-Dioxane
Concen: 2.493 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion: 88 Resp: 4082

Ion	Ratio	Lower	Upper
88	100		
43	62.2	37.8	56.8#
58	86.6	67.4	101.2



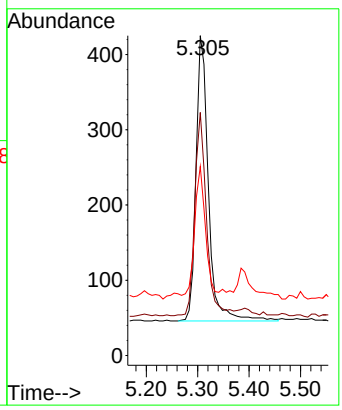


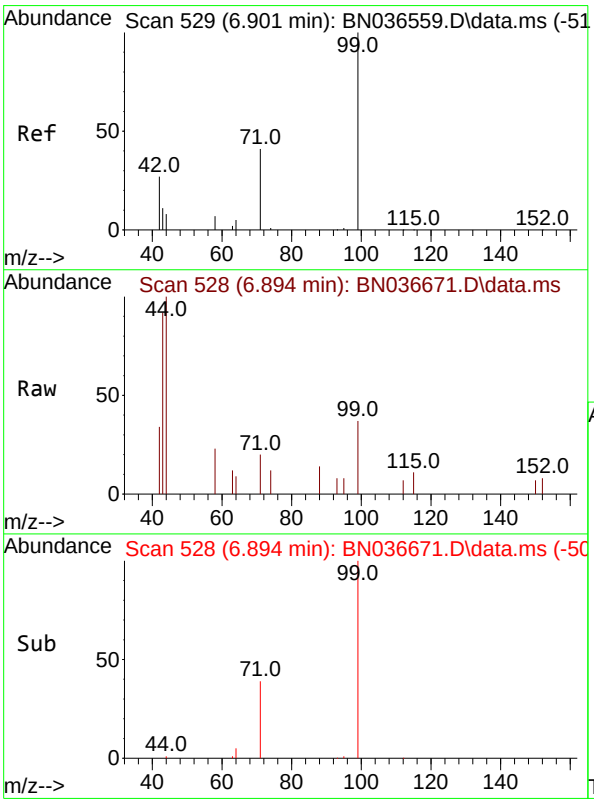
#4
2-Fluorophenol
Concen: 0.184 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:112 Resp: 634

Ion	Ratio	Lower	Upper
112	100		
64	66.9	53.1	79.7
63	41.5	31.8	47.8

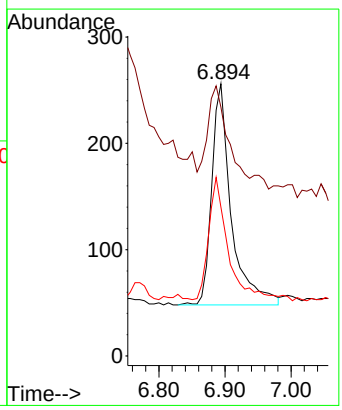


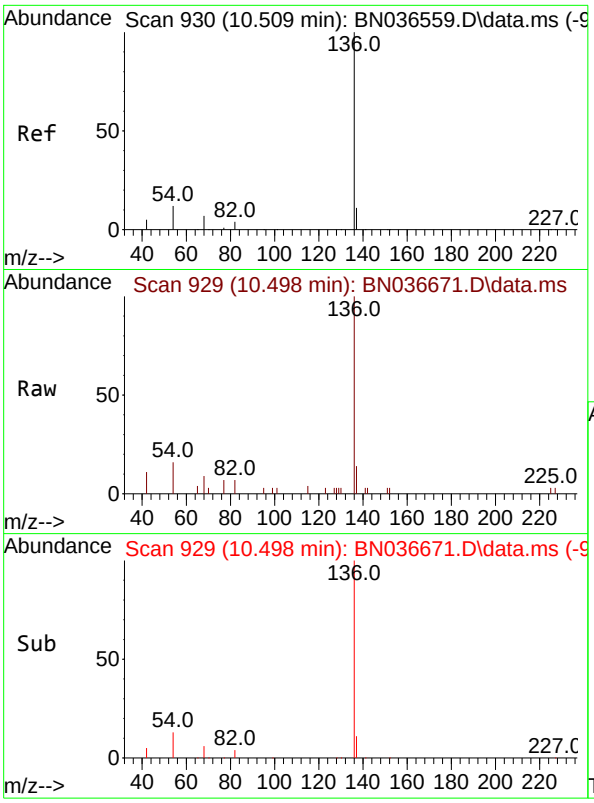


#5
Phenol-d6
Concen: 0.100 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion: 99 Resp: 427

Ion	Ratio	Lower	Upper
99	100		
42	38.9	26.5	39.7
71	56.9	34.1	51.1#



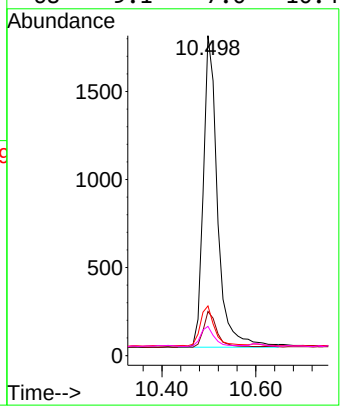


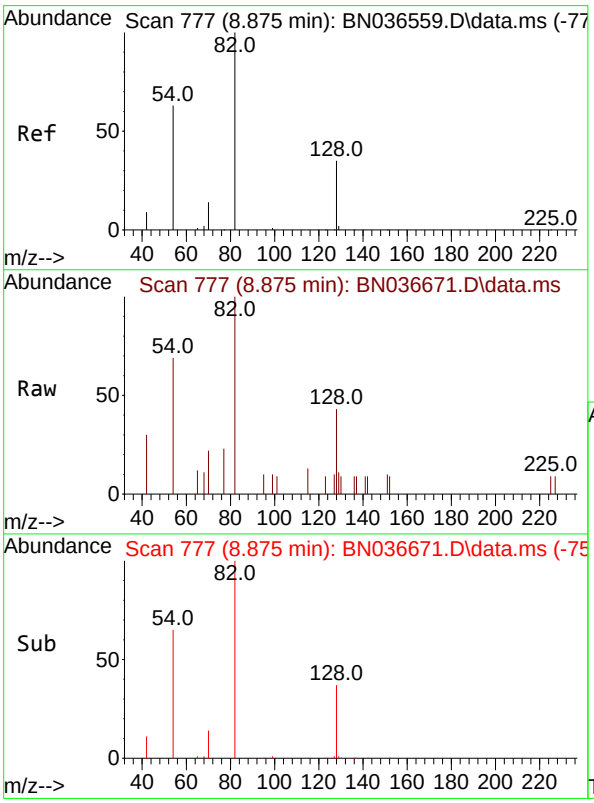
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:136 Resp: 3714

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.5	11.5	17.3
68	9.1	7.0	10.4

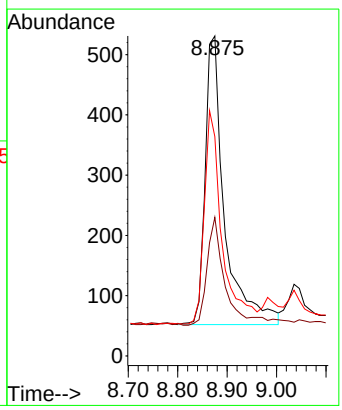


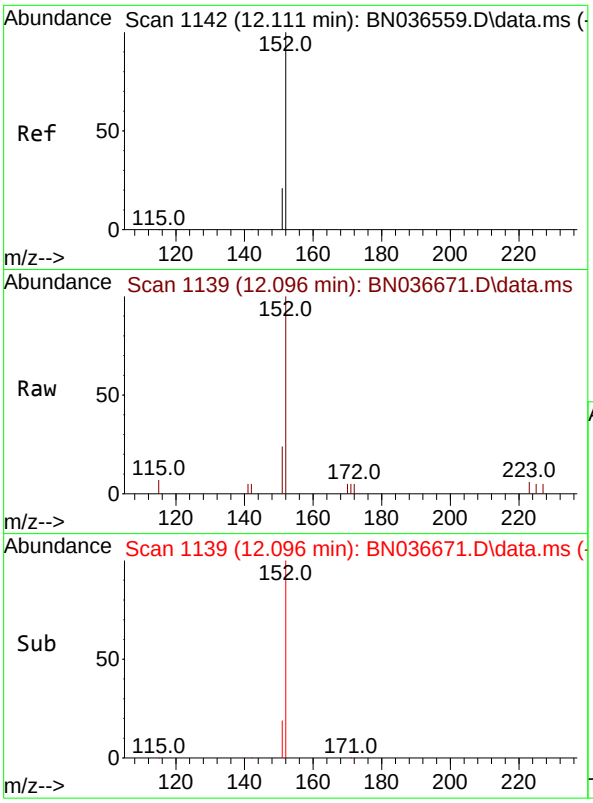


#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion: 82 Resp: 1302

Ion	Ratio	Lower	Upper
82	100		
128	43.3	30.6	45.8
54	68.5	52.2	78.4



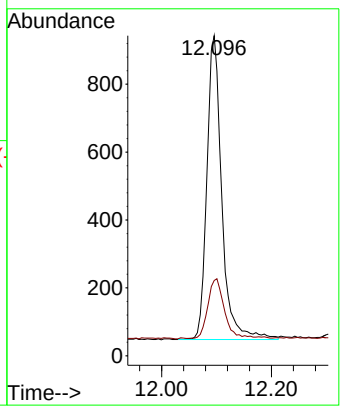


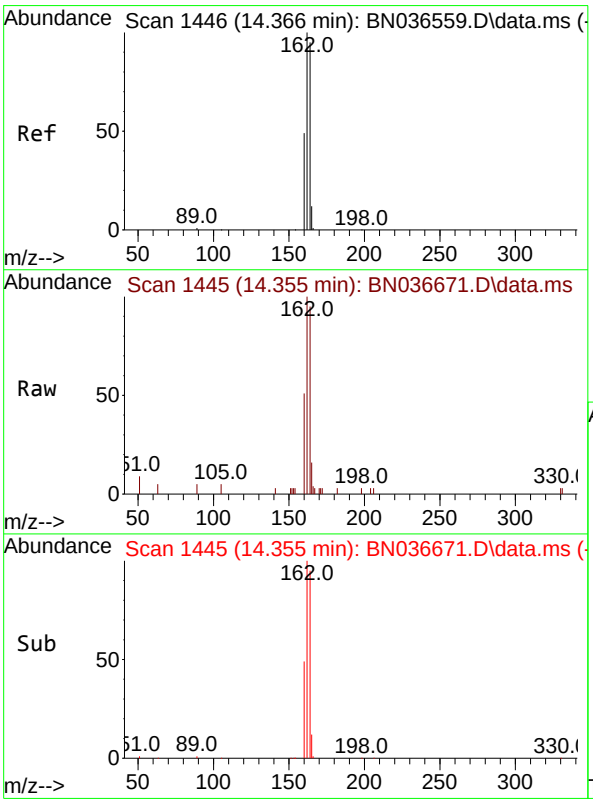
#11
2-Methylnaphthalene-d10
Concen: 0.306 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:152 Resp: 1688

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

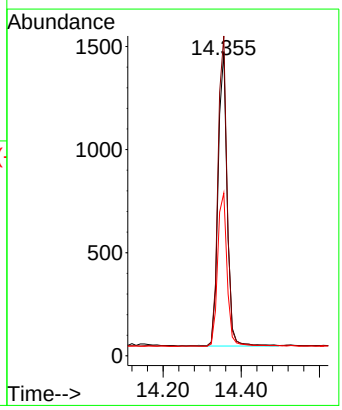


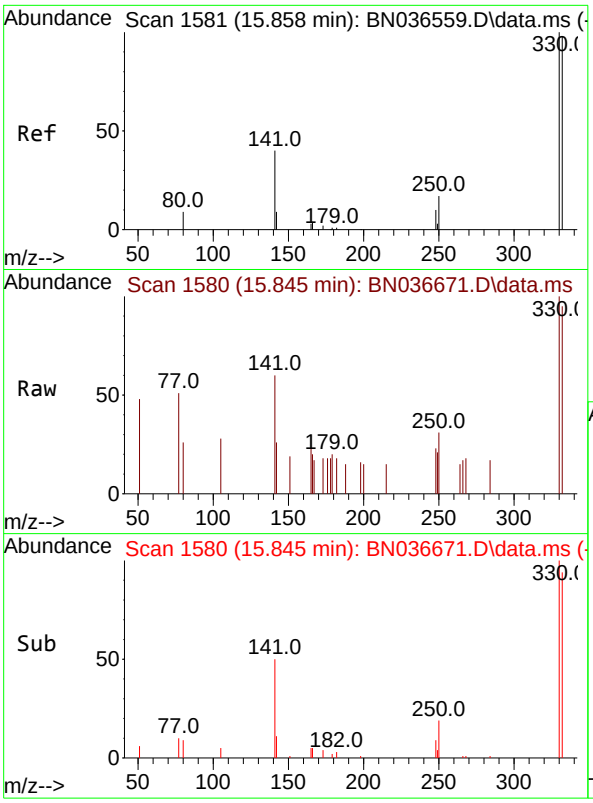


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:164 Resp: 2273

Ion	Ratio	Lower	Upper
164	100		
162	105.2	84.2	126.2
160	53.5	42.2	63.2



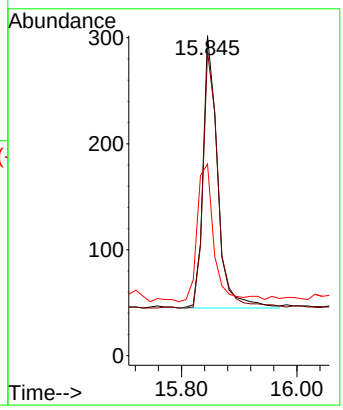


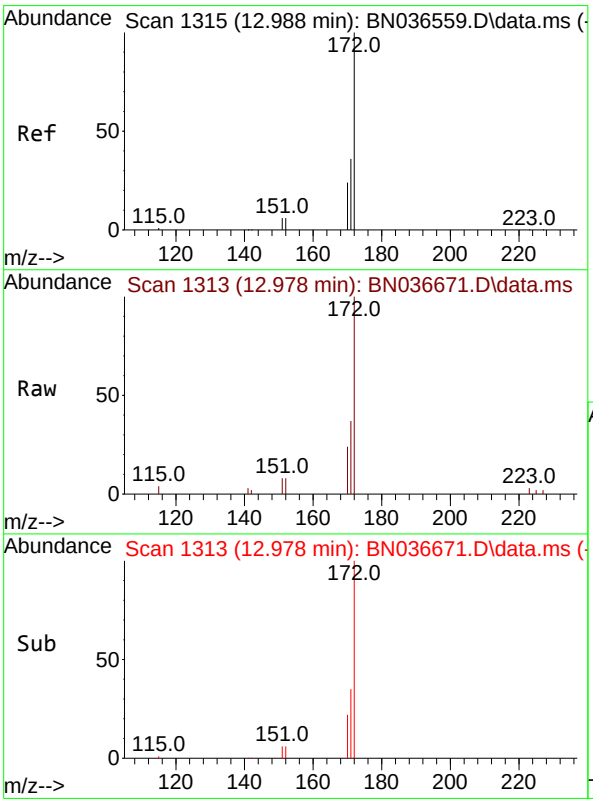
#14
2,4,6-Tribromophenol
Concen: 0.438 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:330 Resp: 452

Ion	Ratio	Lower	Upper
330	100		
332	96.5	75.2	112.8
141	59.1	43.4	65.2

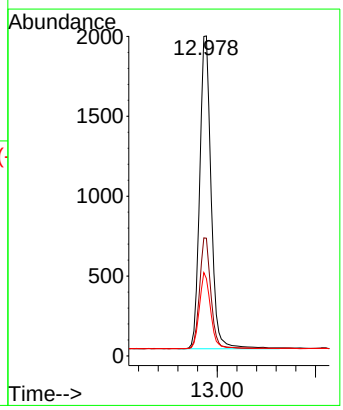


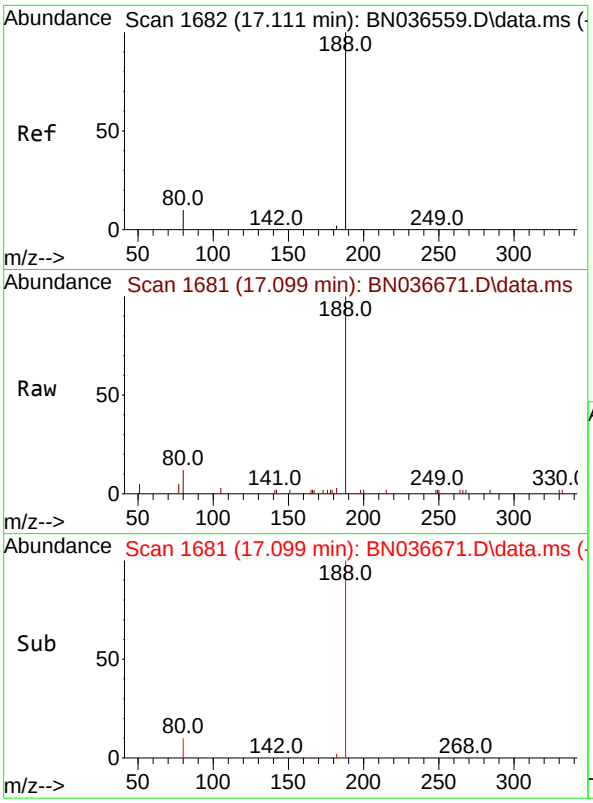


#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:172 Resp: 4445

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.5	44.3
170	24.2	20.2	30.4



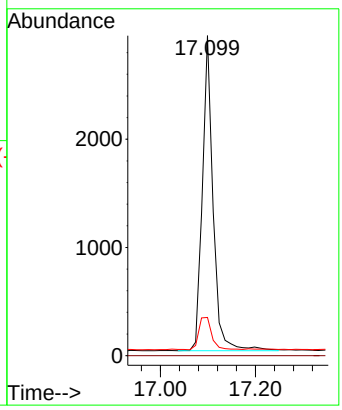


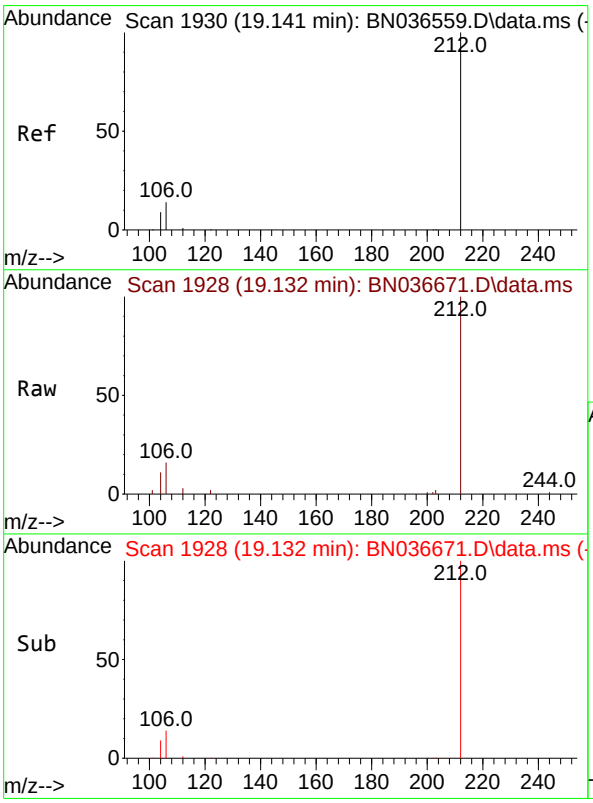
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:188 Resp: 4572

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

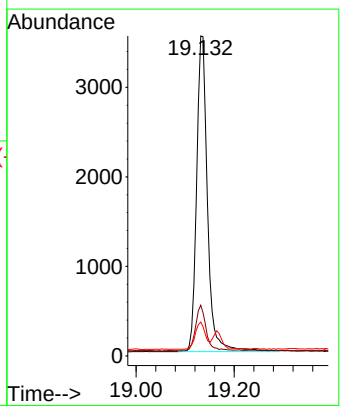


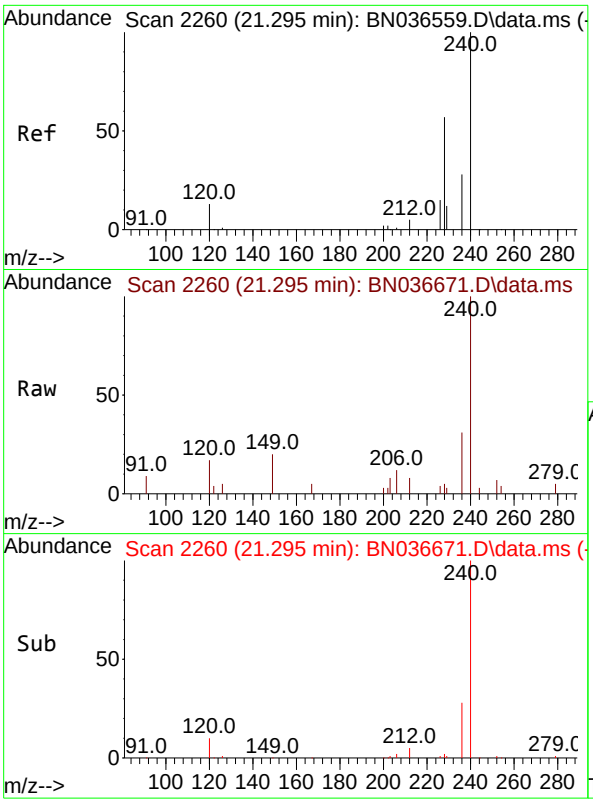


#27
Fluoranthene-d10
Concen: 0.464 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:212 Resp: 5436

Ion	Ratio	Lower	Upper
212	100		
106	13.9	11.8	17.6
104	8.0	7.3	10.9



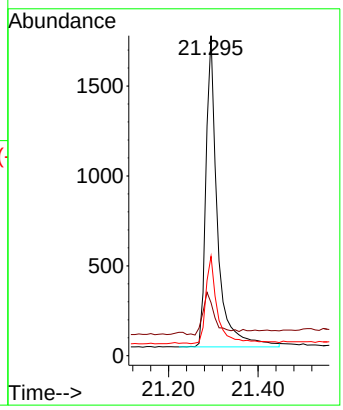


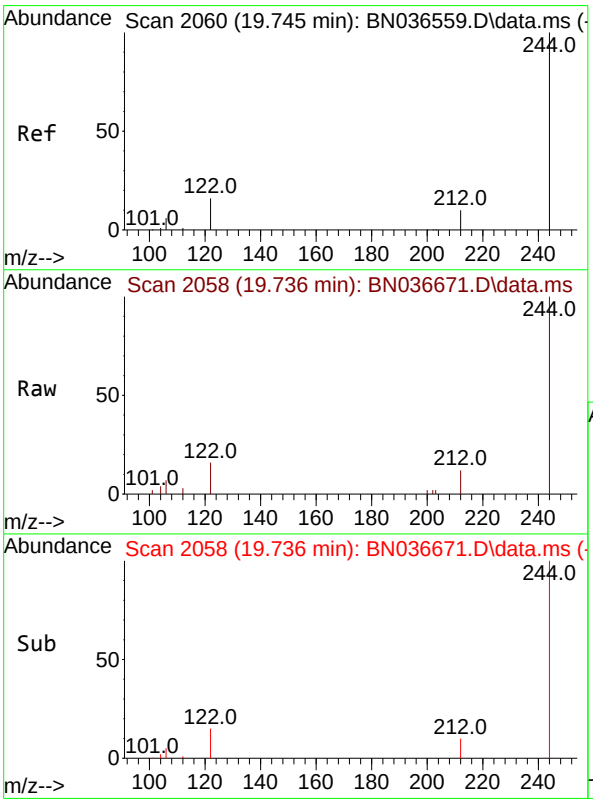
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:240 Resp: 3100

Ion	Ratio	Lower	Upper
240	100		
120	16.6	14.6	22.0
236	31.1	24.1	36.1

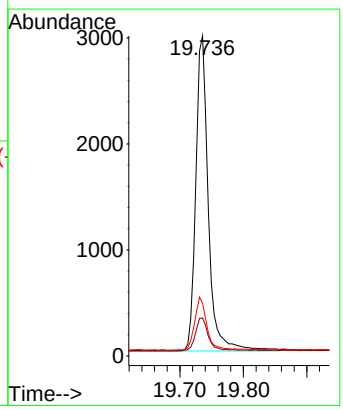


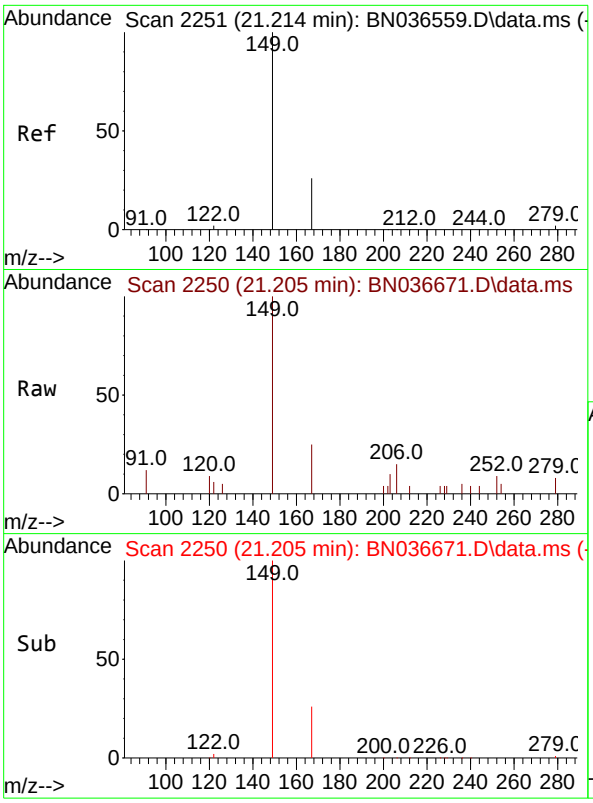


#31
Terphenyl-d14
Concen: 0.549 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:244 Resp: 4076

Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	16.5	13.9	20.9



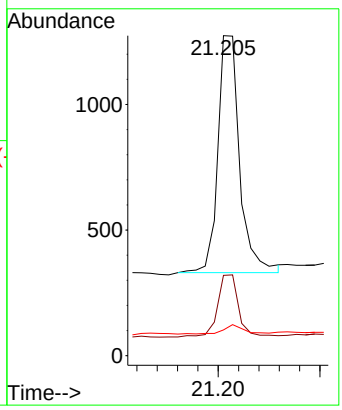


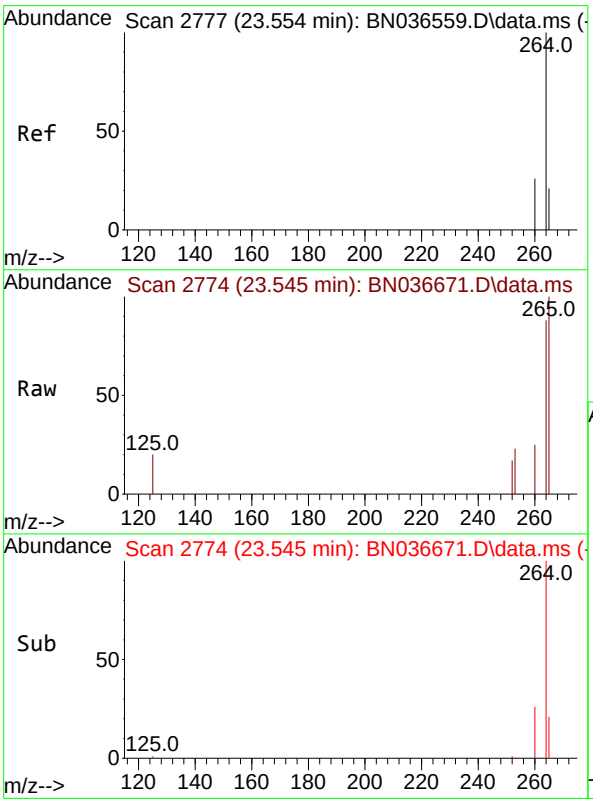
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.182 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Instrument :
BNA_N
ClientSampleId :
RE131D3-20250313

Tgt Ion:149 Resp: 1400

Ion	Ratio	Lower	Upper
149	100		
167	25.2	20.7	31.1
279	3.9	3.6	5.4

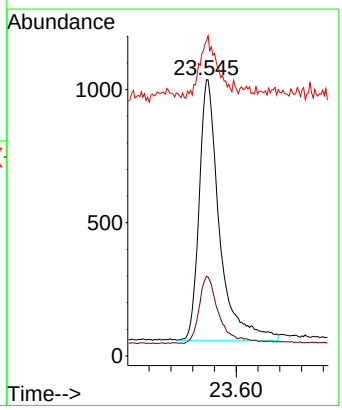




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.545 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036671.D
Acq: 17 Mar 2025 22:51

Tgt Ion:264 Resp: 2528

Ion	Ratio	Lower	Upper
264	100		
260	28.8	22.6	33.8
265	114.2	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT119S1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-09	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
BN036672.D	1	03/17/25 08:48	03/17/25 23:27	PB167159

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1720	7.717				
1146-65-2	Naphthalene-d8	4150	10.498				
15067-26-2	Acenaphthene-d10	2560	14.355				
1517-22-2	Phenanthrene-d10	5110	17.099				
1719-03-5	Chrysene-d12	3480	21.295				
1520-96-3	Perylene-d12	2790	23.545				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036672.D
Acq On : 17 Mar 2025 23:27
Operator : RC/JU
Sample : Q1582-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Quant Time: Mar 18 00:56:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

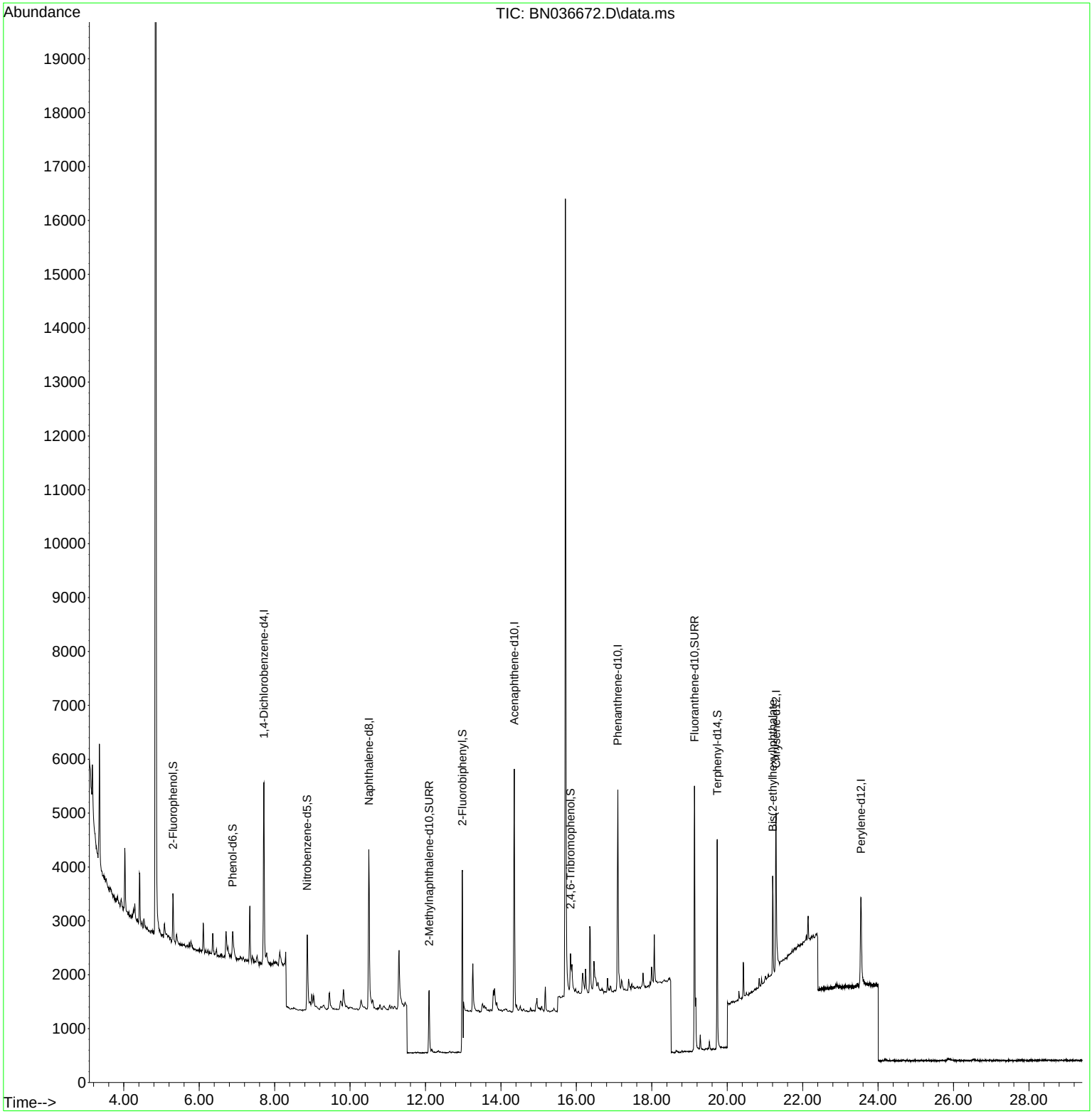
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1721	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4150	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2557	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5105	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3477	0.400	ng	0.00
35) Perylene-d12	23.545	264	2786	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	616	0.154	ng	0.00
5) Phenol-d6	6.886	99	439	0.089	ng	-0.01
8) Nitrobenzene-d5	8.864	82	1367	0.303	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1800	0.292	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	422	0.364	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4567	0.307	ng	-0.01
27) Fluoranthene-d10	19.132	212	5739	0.439	ng	0.00
31) Terphenyl-d14	19.736	244	4110	0.493	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.205	149	1938	0.225	ng	# 93

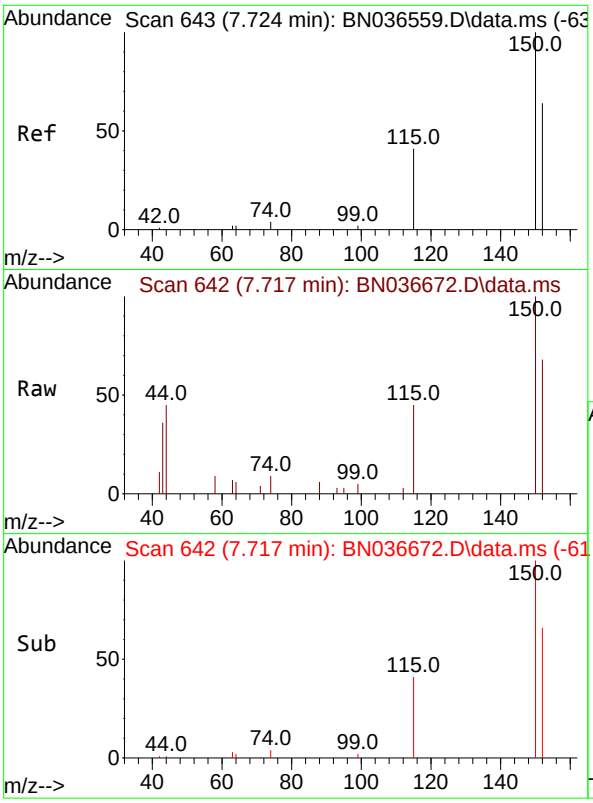
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036672.D
Acq On : 17 Mar 2025 23:27
Operator : RC/JU
Sample : Q1582-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Quant Time: Mar 18 00:56:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



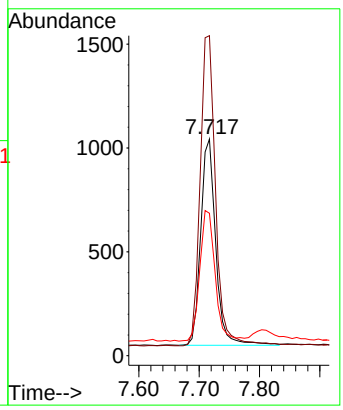


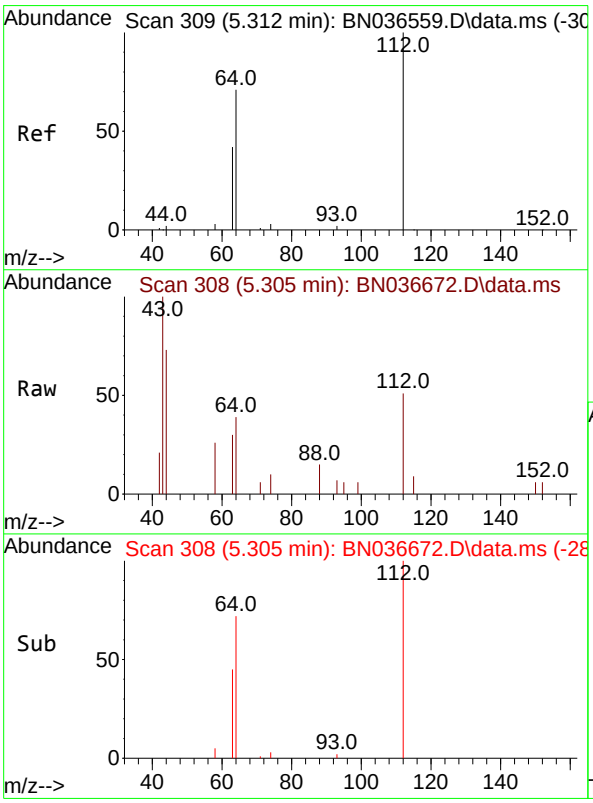
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Tgt Ion:152 Resp: 1721

Ion	Ratio	Lower	Upper
152	100		
150	147.7	123.7	185.5
115	65.8	54.3	81.5

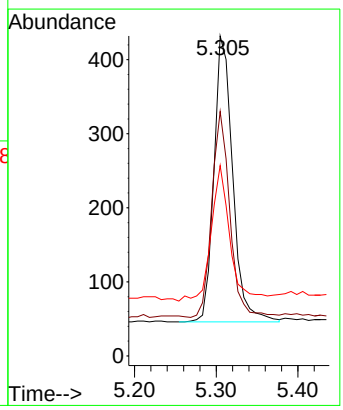


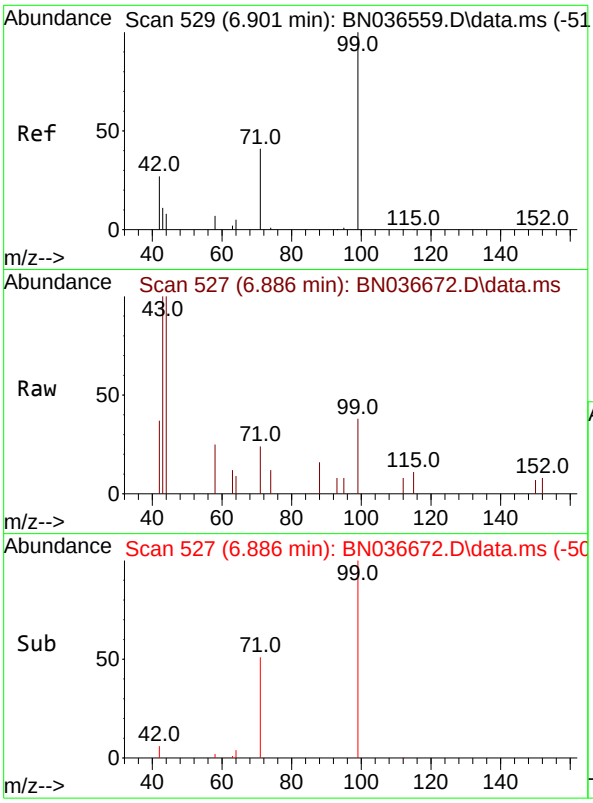


#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:112 Resp: 616

Ion	Ratio	Lower	Upper
112	100		
64	69.6	53.1	79.7
63	47.4	31.8	47.8



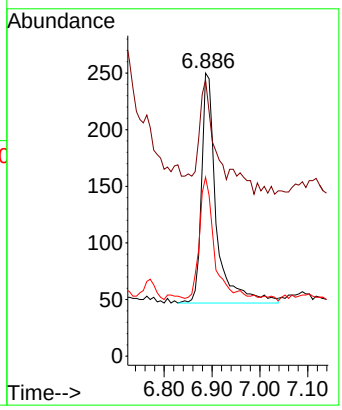


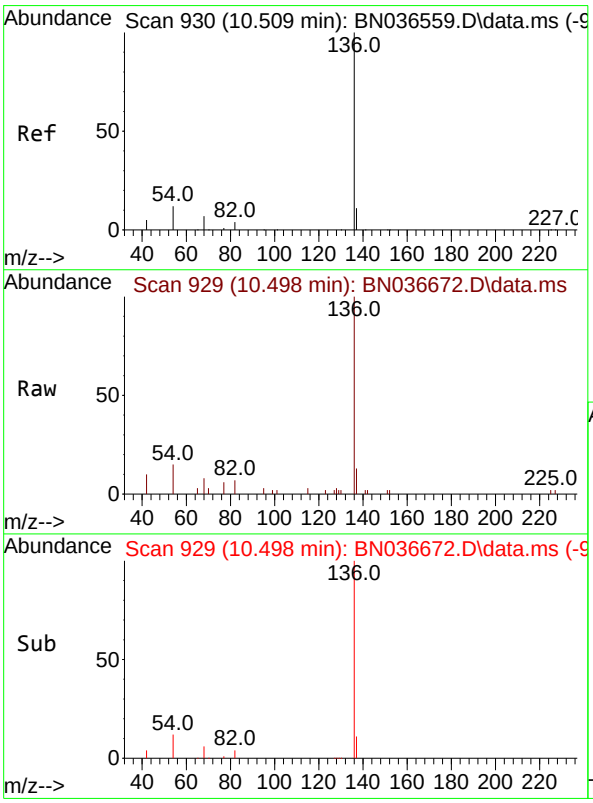
#5
Phenol-d6
Concen: 0.089 ng
RT: 6.886 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Tgt Ion: 99 Resp: 439

Ion	Ratio	Lower	Upper
99	100		
42	34.9	26.5	39.7
71	52.6	34.1	51.1#

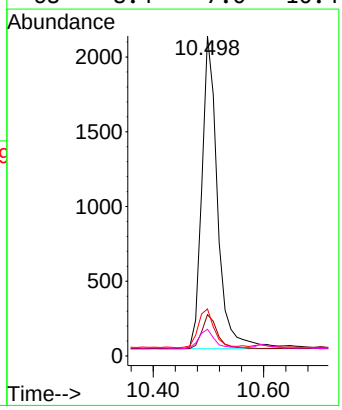


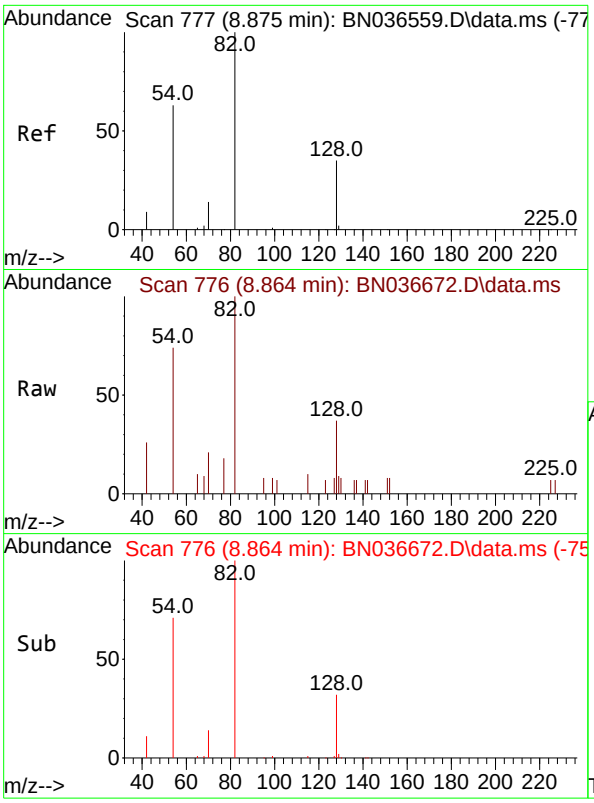


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:136 Resp: 4150

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	14.7	11.5	17.3
68	8.4	7.0	10.4



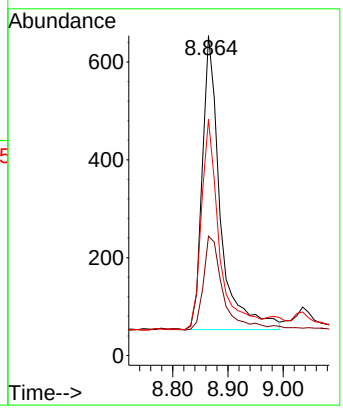


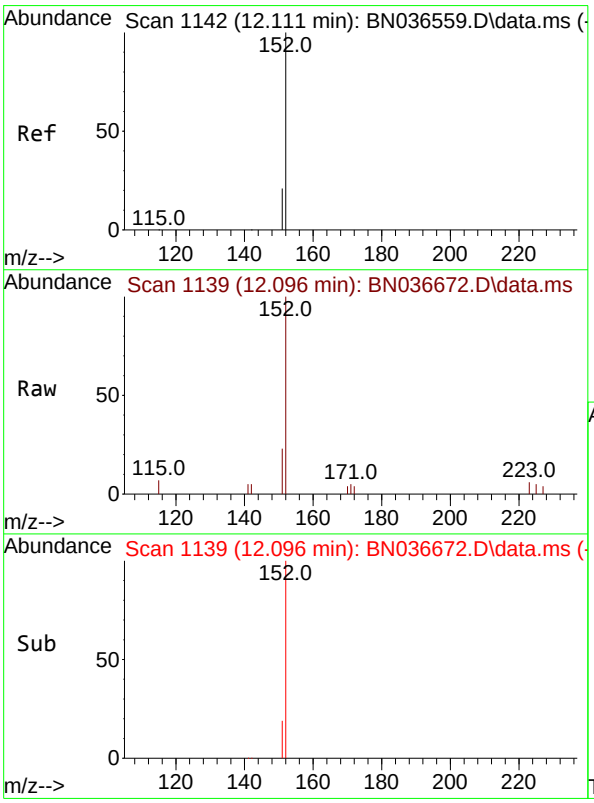
#8
Nitrobenzene-d5
Concen: 0.303 ng
RT: 8.864 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Tgt Ion: 82 Resp: 1367

Ion	Ratio	Lower	Upper
82	100		
128	37.3	30.6	45.8
54	73.9	52.2	78.4

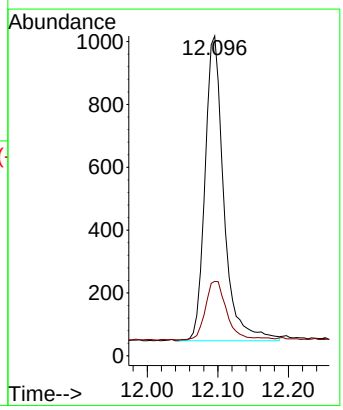


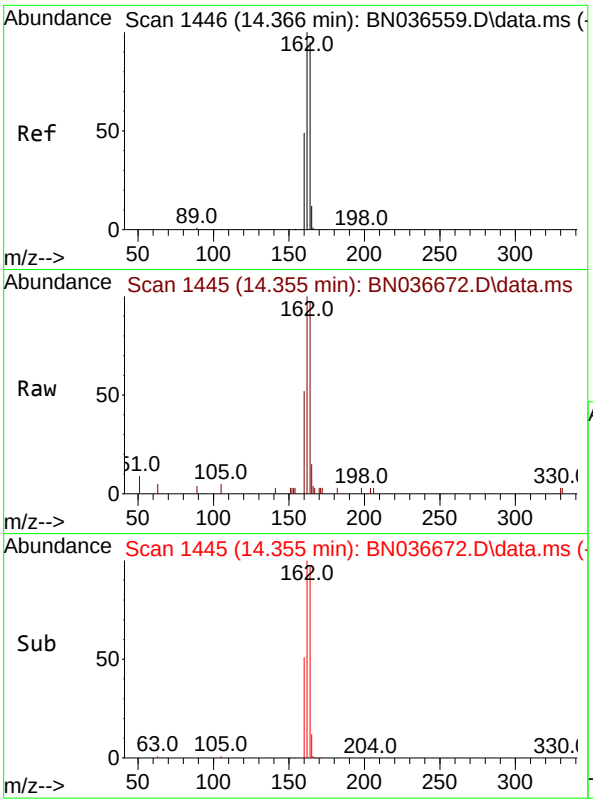


#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:152 Resp: 1800

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6



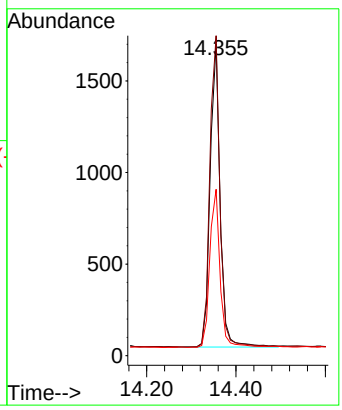


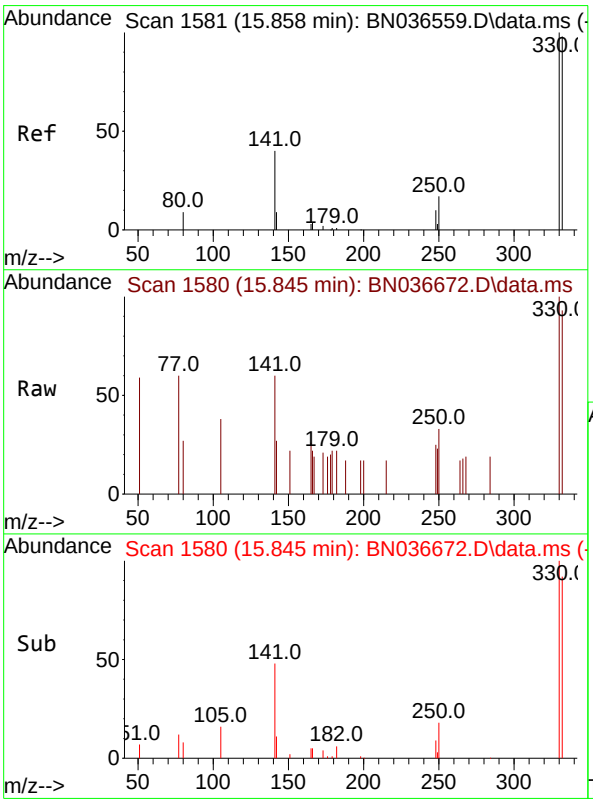
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Tgt Ion:164 Resp: 2557

Ion	Ratio	Lower	Upper
164	100		
162	102.6	84.2	126.2
160	53.4	42.2	63.2

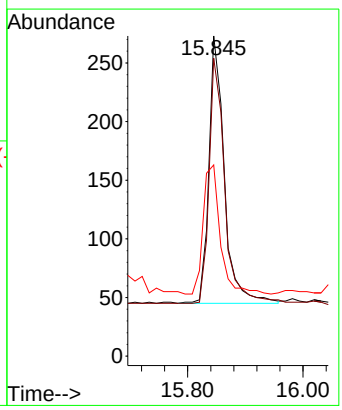


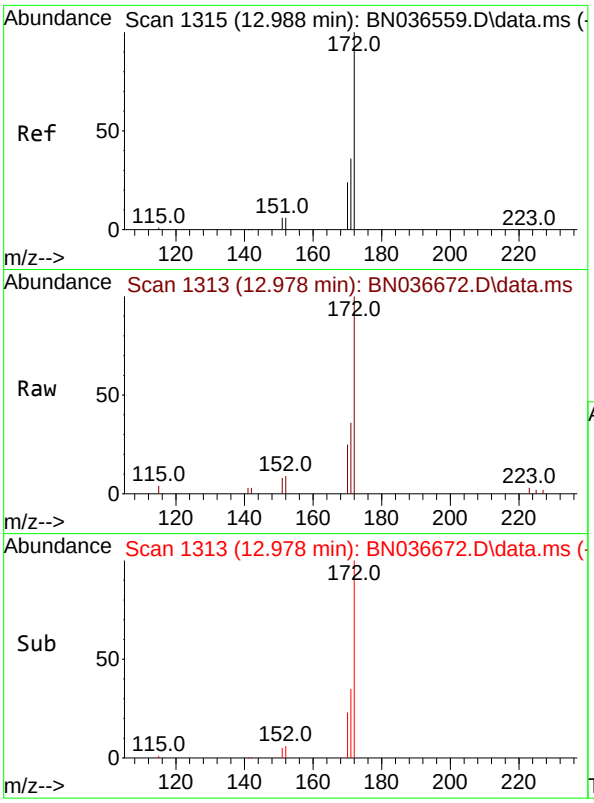


#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:330 Resp: 422

Ion	Ratio	Lower	Upper
330	100		
332	93.1	75.2	112.8
141	53.6	43.4	65.2



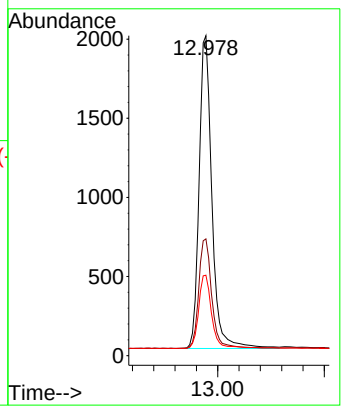


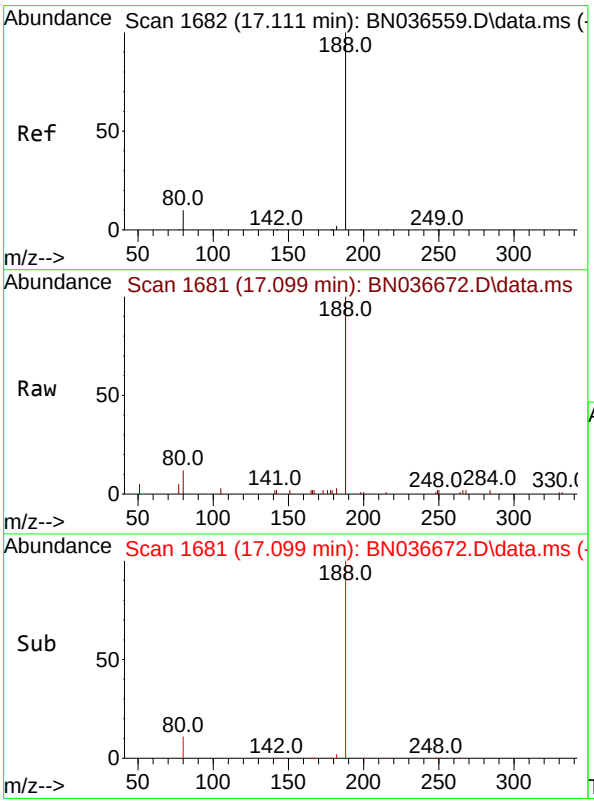
#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Tgt Ion:172 Resp: 4567

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	25.1	20.2	30.4

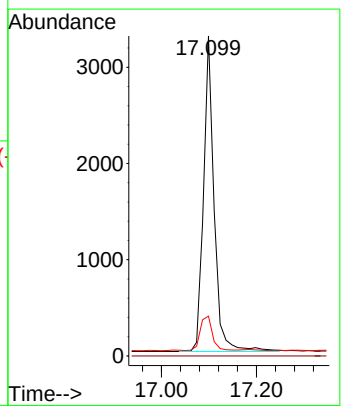


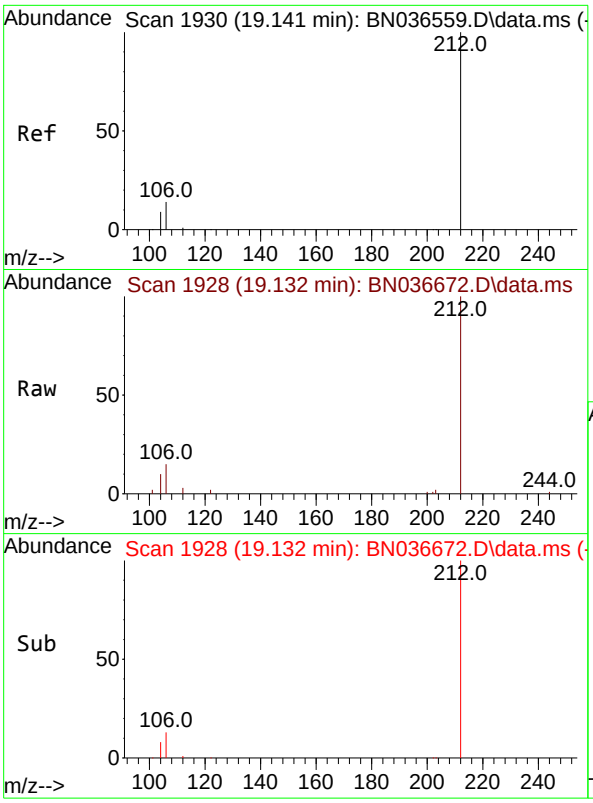


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:188 Resp: 5105

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



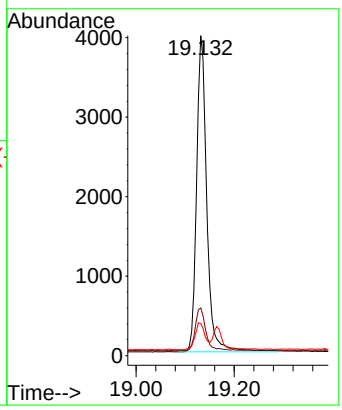


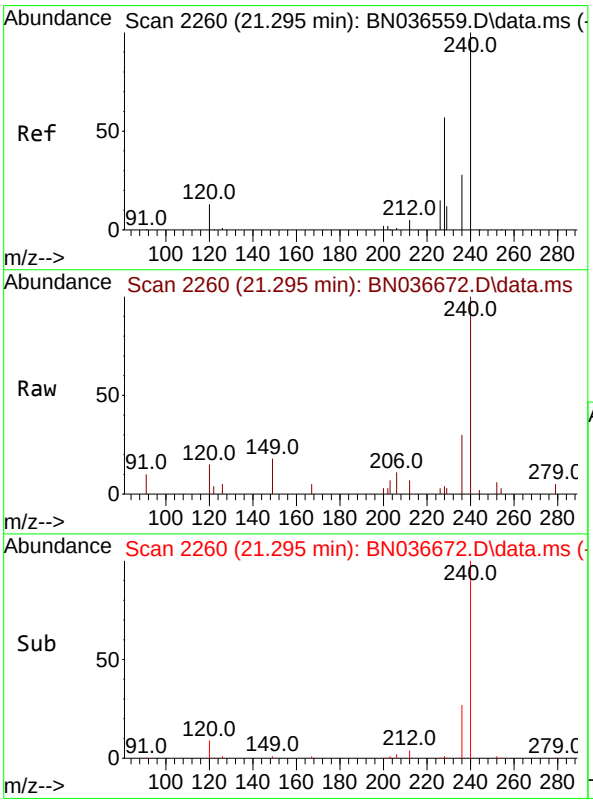
#27
Fluoranthene-d10
Concen: 0.439 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Tgt Ion:212 Resp: 5739

Ion	Ratio	Lower	Upper
212	100		
106	13.9	11.8	17.6
104	8.4	7.3	10.9

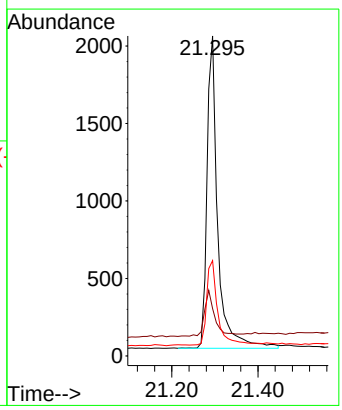


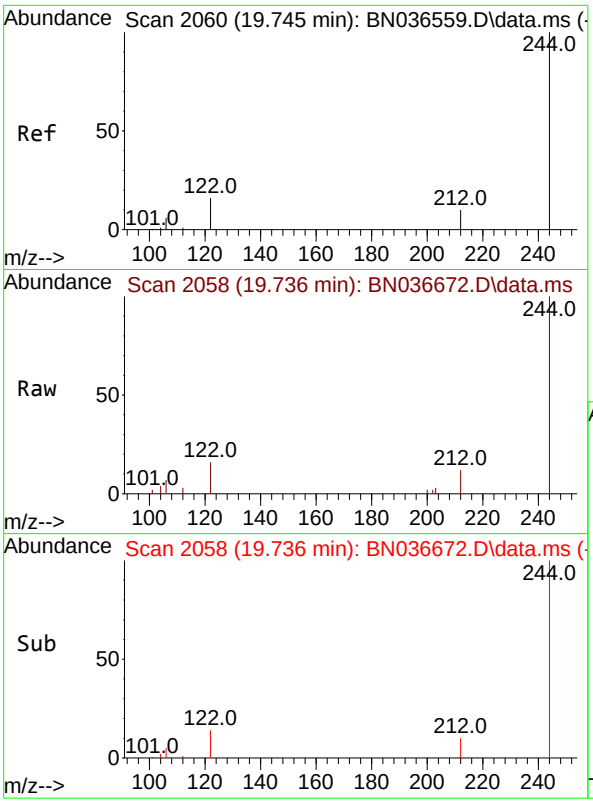


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:240 Resp: 3477

Ion	Ratio	Lower	Upper
240	100		
120	14.8	14.6	22.0
236	29.8	24.1	36.1



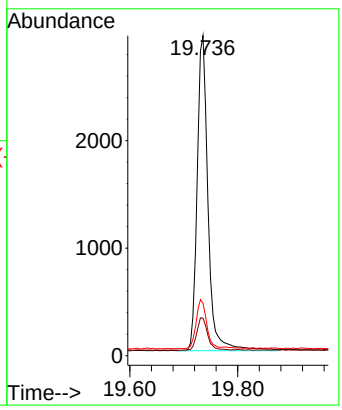


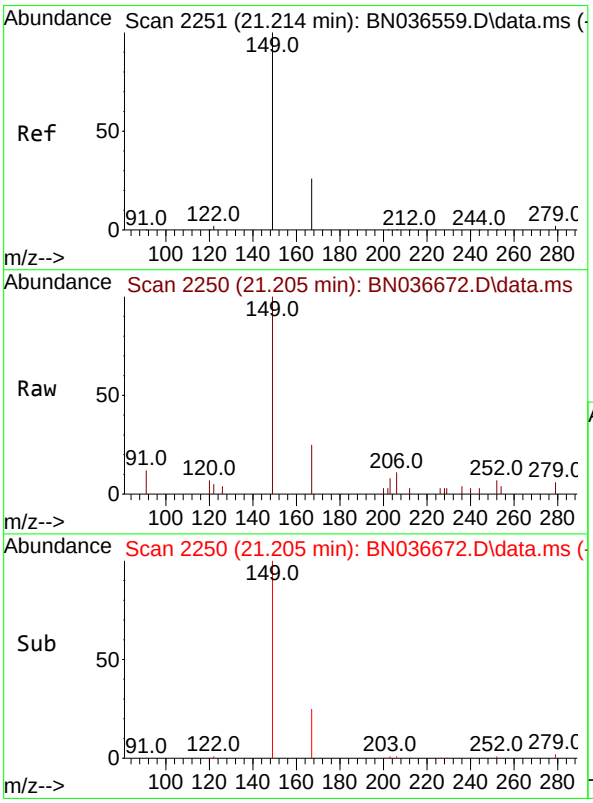
#31
Terphenyl-d14
Concen: 0.493 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Tgt Ion:244 Resp: 4110

Ion	Ratio	Lower	Upper
244	100		
212	11.8	9.6	14.4
122	16.3	13.9	20.9

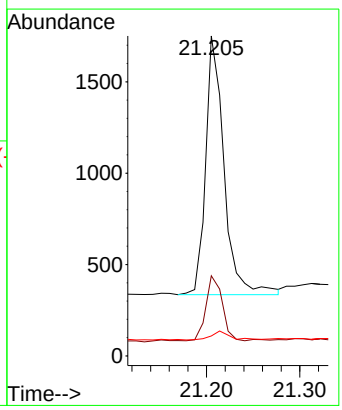


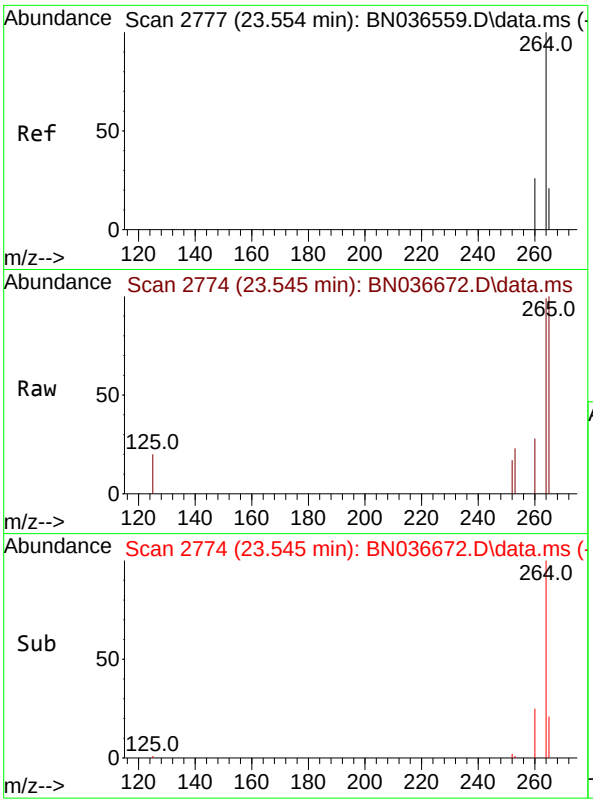


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.225 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Tgt Ion:149 Resp: 1938

Ion	Ratio	Lower	Upper
149	100		
167	22.2	20.7	31.1
279	3.6	3.6	5.4#



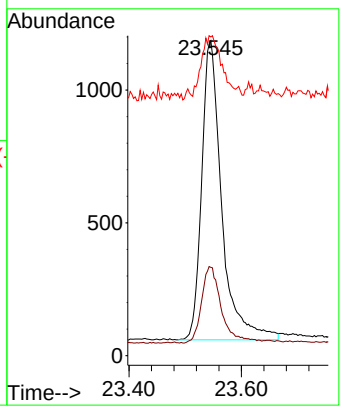


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.545 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036672.D
Acq: 17 Mar 2025 23:27

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250313

Tgt Ion:264 Resp: 2786

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.6	33.8
265	101.2	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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE114D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-10	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
BN036673.D	1	03/17/25 08:48	03/18/25 00:03	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.00		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.24		30 - 150		61%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	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	1660	7.717				
1146-65-2	Naphthalene-d8	4100	10.498				
15067-26-2	Acenaphthene-d10	2450	14.355				
1517-22-2	Phenanthrene-d10	5060	17.099				
1719-03-5	Chrysene-d12	3830	21.295				
1520-96-3	Perylene-d12	3190	23.546				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036673.D
Acq On : 18 Mar 2025 00:03
Operator : RC/JU
Sample : Q1582-10
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Quant Time: Mar 18 00:57:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

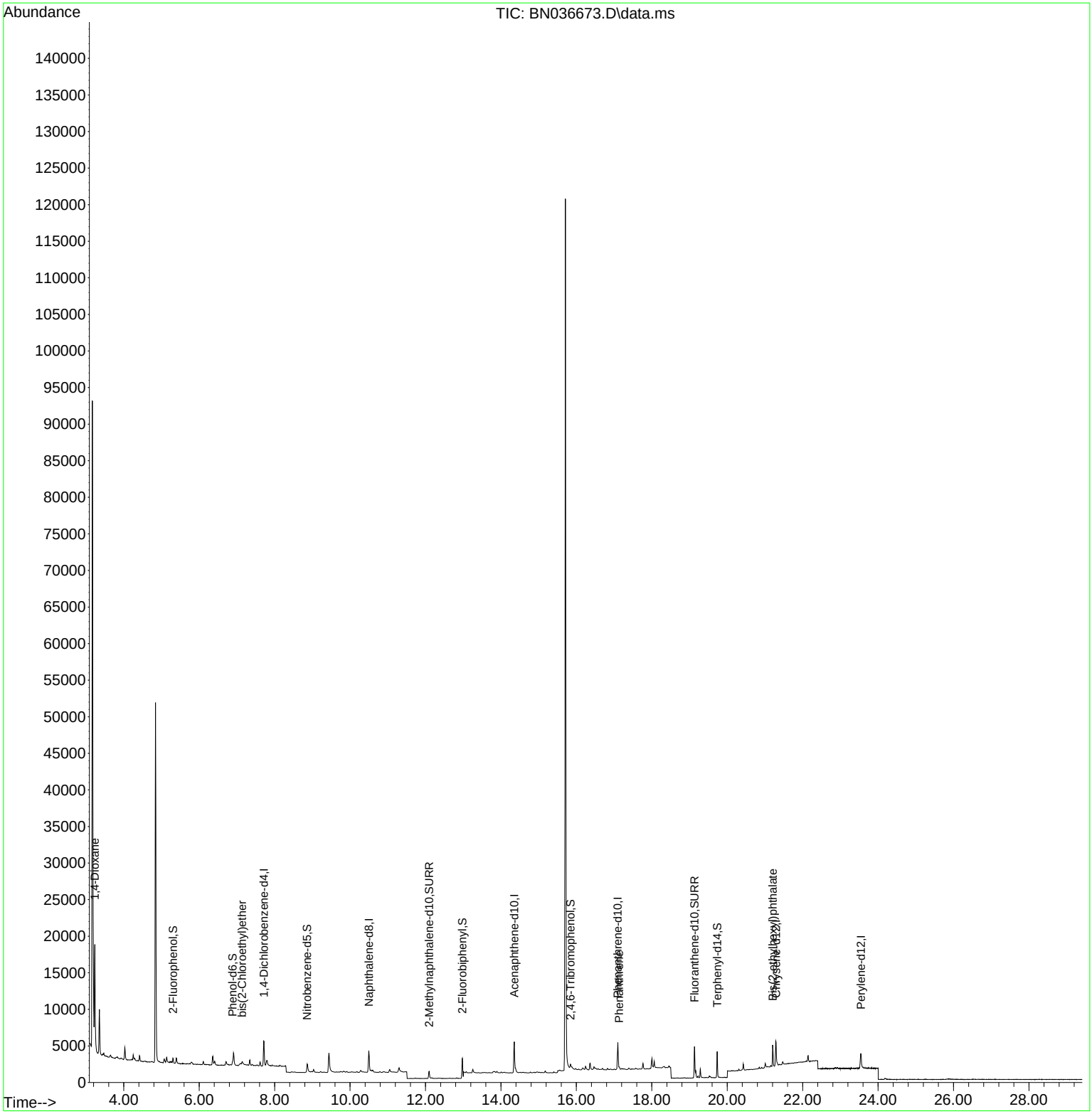
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1655	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4102	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2453	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5059	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3831	0.400	ng	# 0.00
35) Perylene-d12	23.546	264	3185	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	514	0.133	ng	0.00
5) Phenol-d6	6.887	99	386	0.081	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1129	0.253	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1481	0.243	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	348	0.313	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	3792	0.266	ng	-0.01
27) Fluoranthene-d10	19.132	212	4901	0.378	ng	0.00
31) Terphenyl-d14	19.736	244	3551	0.387	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.232	88	7300	3.976	ng	94
6) bis(2-Chloroethyl)ether	7.139	93	243	0.049	ng	# 86
25) Phenanthrene	17.136	178	309	0.020	ng	# 72
34) Bis(2-ethylhexyl)phtha...	21.205	149	2781	0.293	ng	# 97

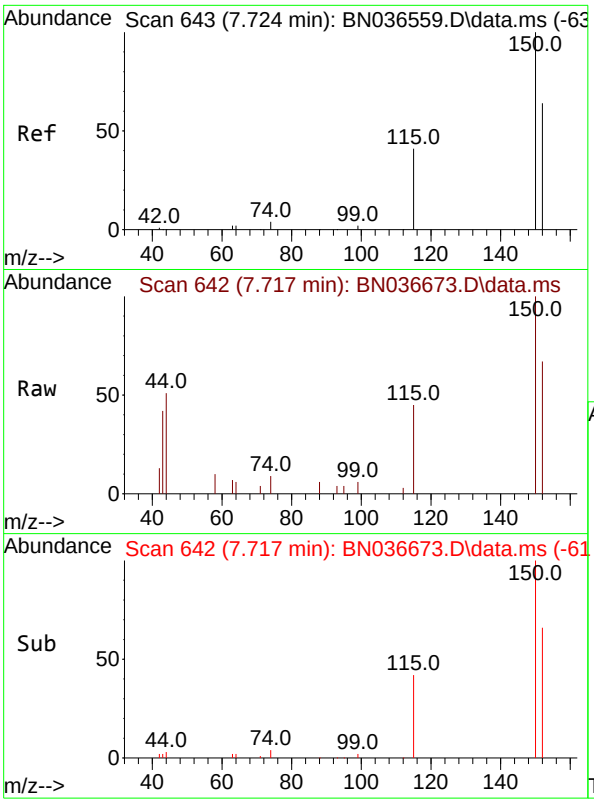
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036673.D
Acq On : 18 Mar 2025 00:03
Operator : RC/JU
Sample : Q1582-10
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Quant Time: Mar 18 00:57:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



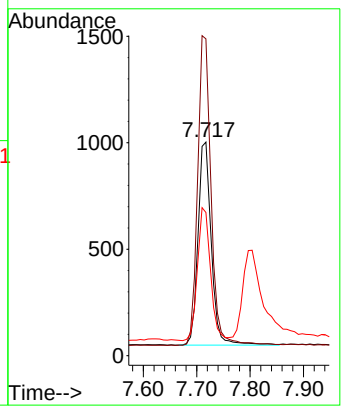


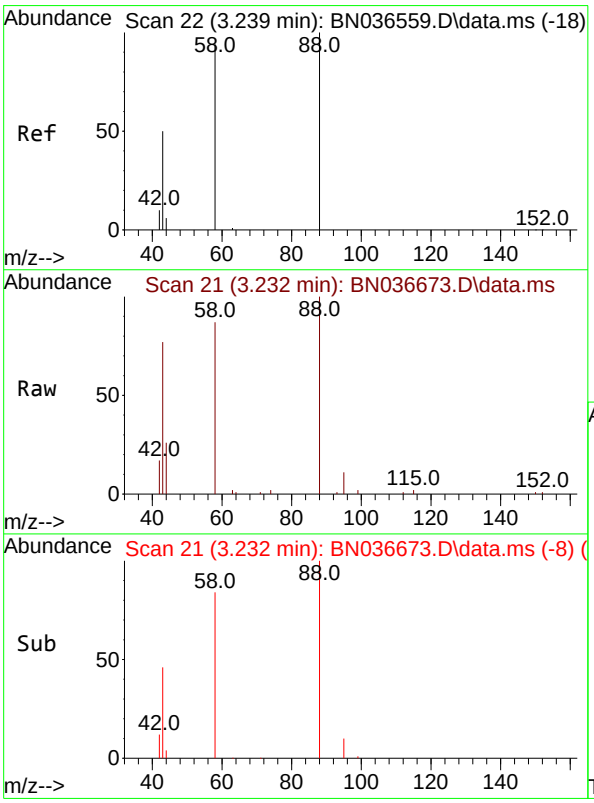
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion:152 Resp: 1655

Ion	Ratio	Lower	Upper
152	100		
150	148.4	123.7	185.5
115	67.1	54.3	81.5

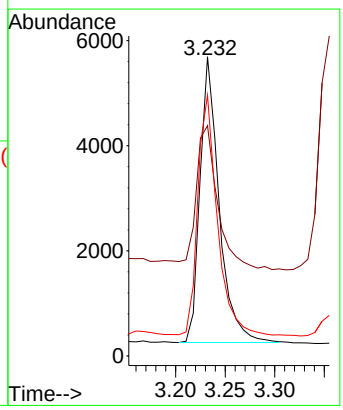


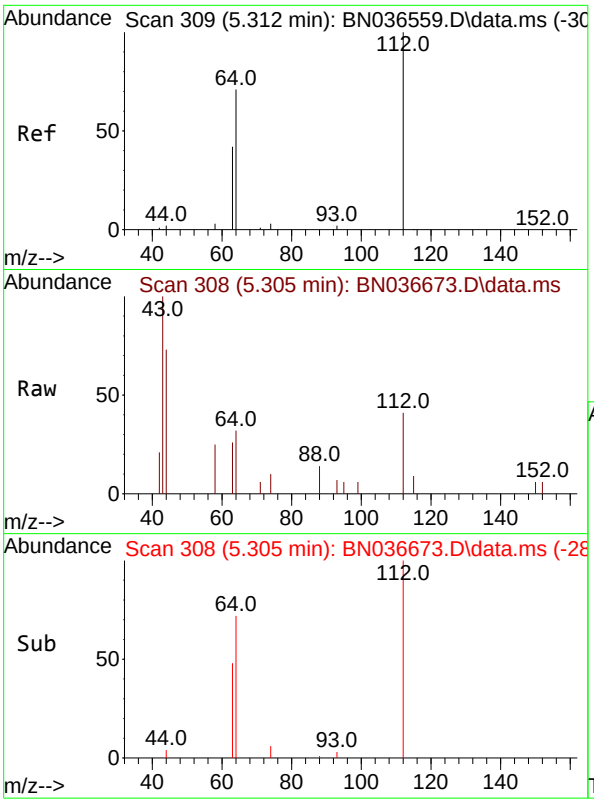


#2
1,4-Dioxane
Concen: 3.976 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion: 88 Resp: 7300

Ion	Ratio	Lower	Upper
88	100		
43	56.6	37.8	56.8
58	85.4	67.4	101.2



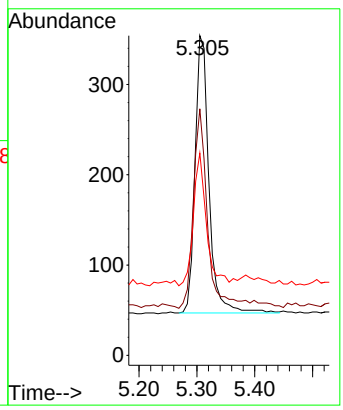


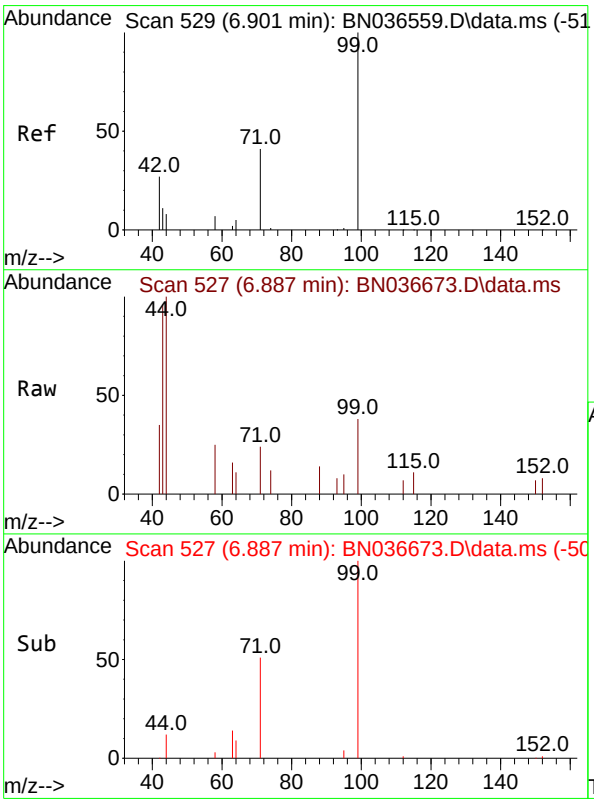
#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion:112 Resp: 514

Ion	Ratio	Lower	Upper
112	100		
64	77.0	53.1	79.7
63	44.7	31.8	47.8

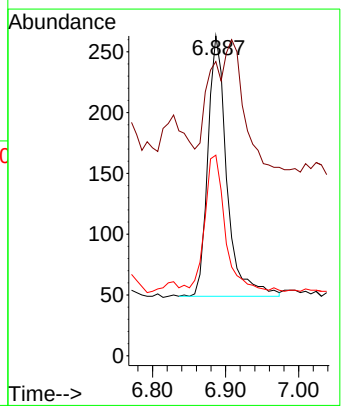


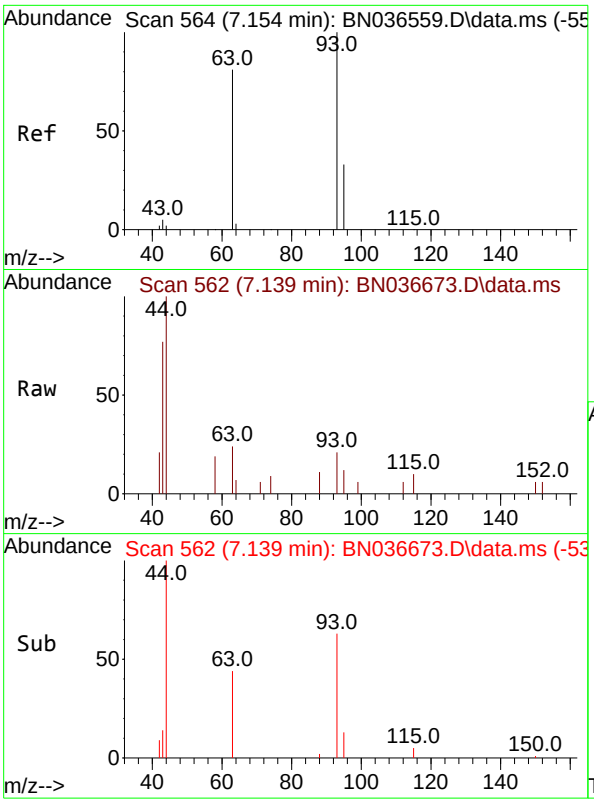


#5
Phenol-d6
Concen: 0.081 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion: 99 Resp: 386

Ion	Ratio	Lower	Upper
99	100		
42	0.0	26.5	39.7#
71	54.9	34.1	51.1#



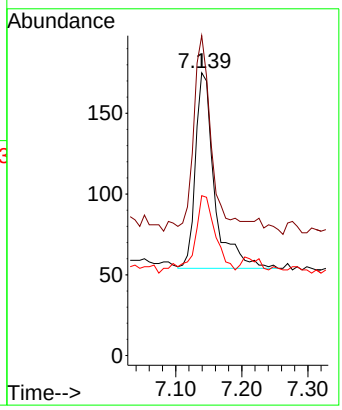


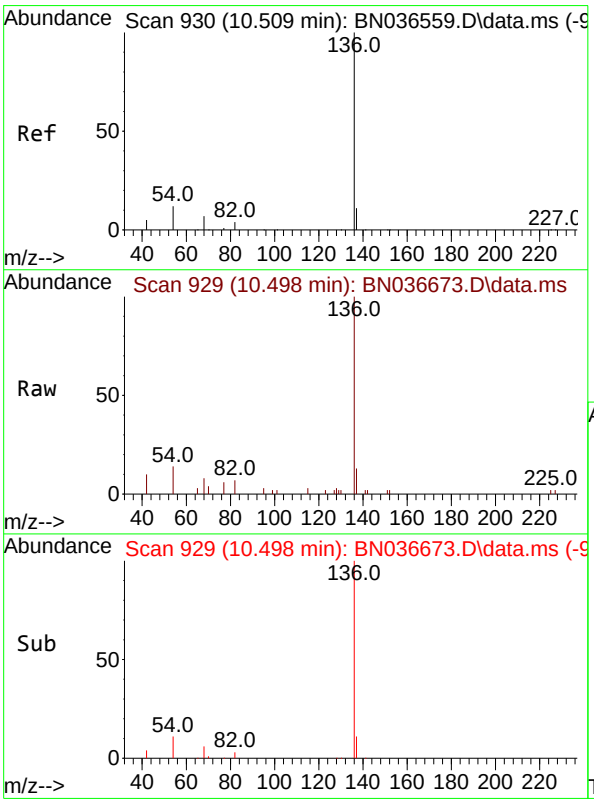
#6
bis(2-Chloroethyl)ether
Concen: 0.049 ng
RT: 7.139 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion: 93 Resp: 243

Ion	Ratio	Lower	Upper
93	100		
63	94.7	67.7	101.5
95	44.4	25.6	38.4#

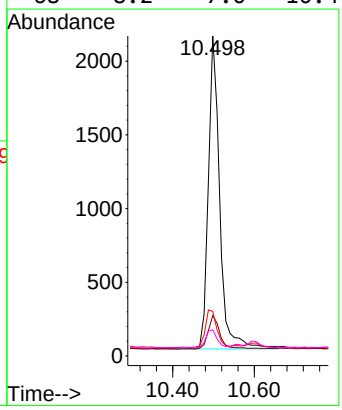


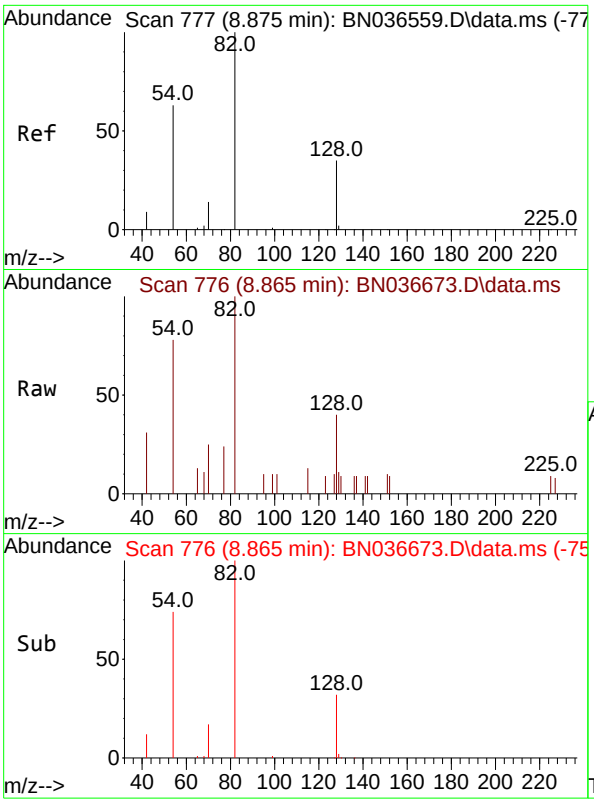


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:136 Resp: 4102

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	13.9	11.5	17.3
68	8.2	7.0	10.4



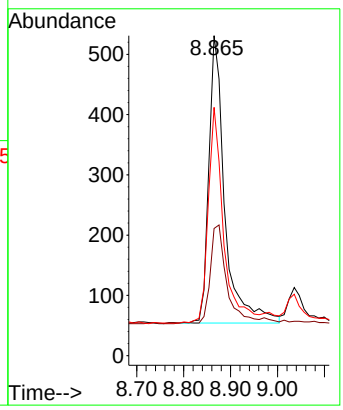


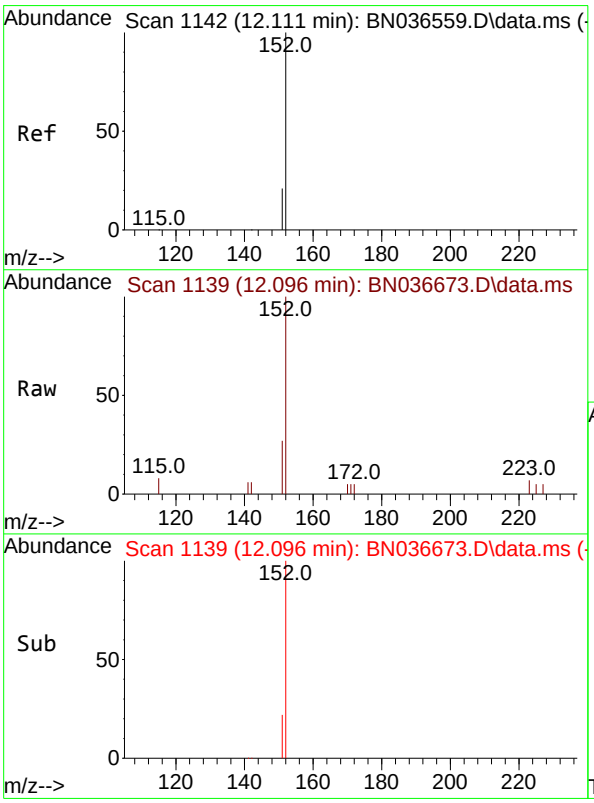
#8
Nitrobenzene-d5
Concen: 0.253 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion: 82 Resp: 1129

Ion	Ratio	Lower	Upper
82	100		
128	39.7	30.6	45.8
54	77.6	52.2	78.4

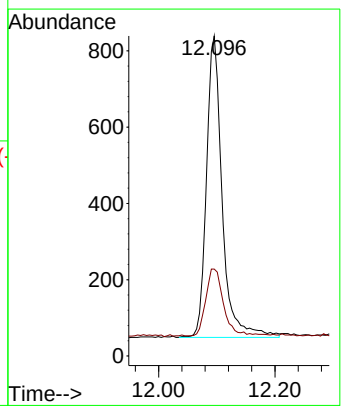


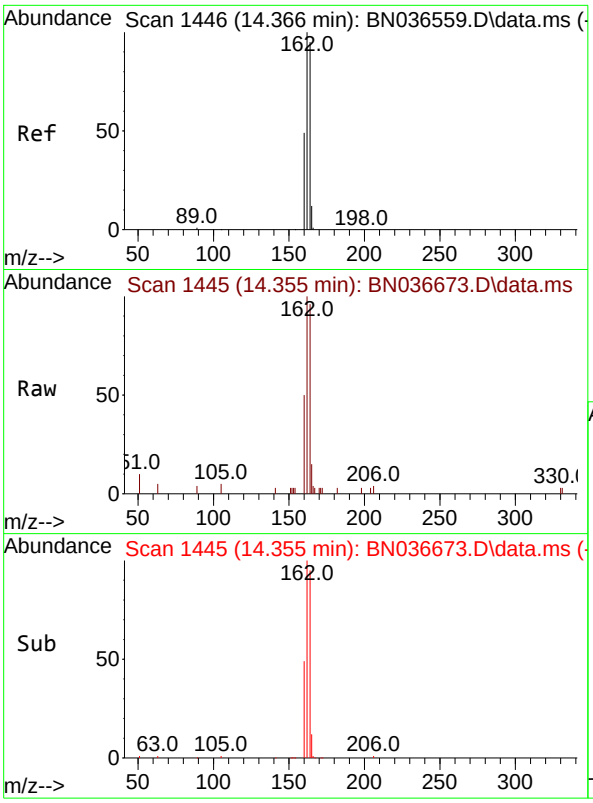


#11
2-Methylnaphthalene-d10
Concen: 0.243 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:152 Resp: 1481

Ion	Ratio	Lower	Upper
152	100		
151	25.2	17.0	25.6



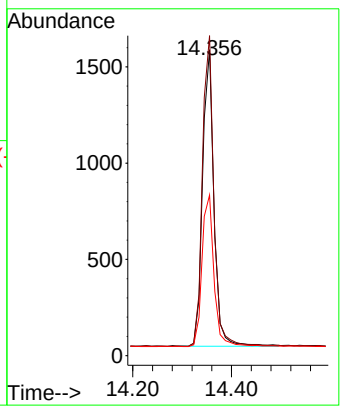


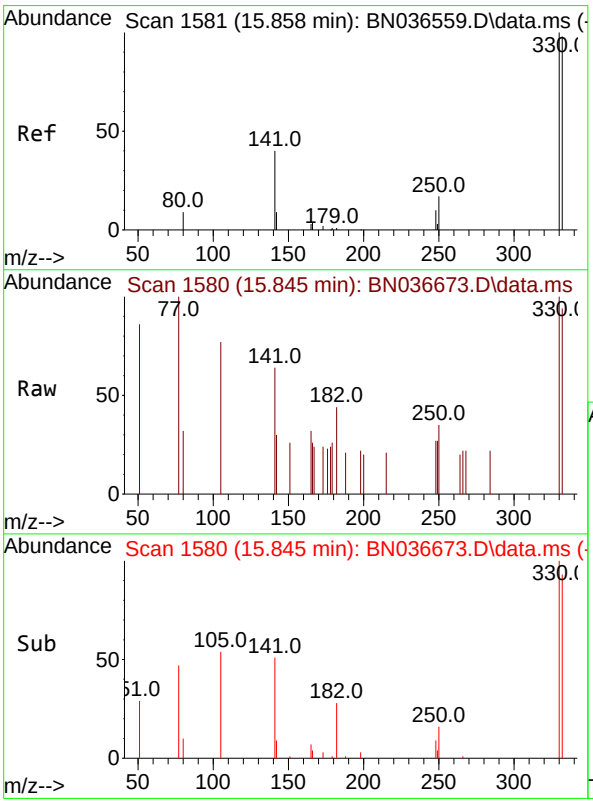
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion:164 Resp: 2453

Ion	Ratio	Lower	Upper
164	100		
162	104.6	84.2	126.2
160	52.5	42.2	63.2

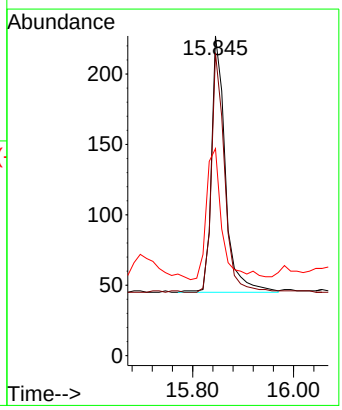


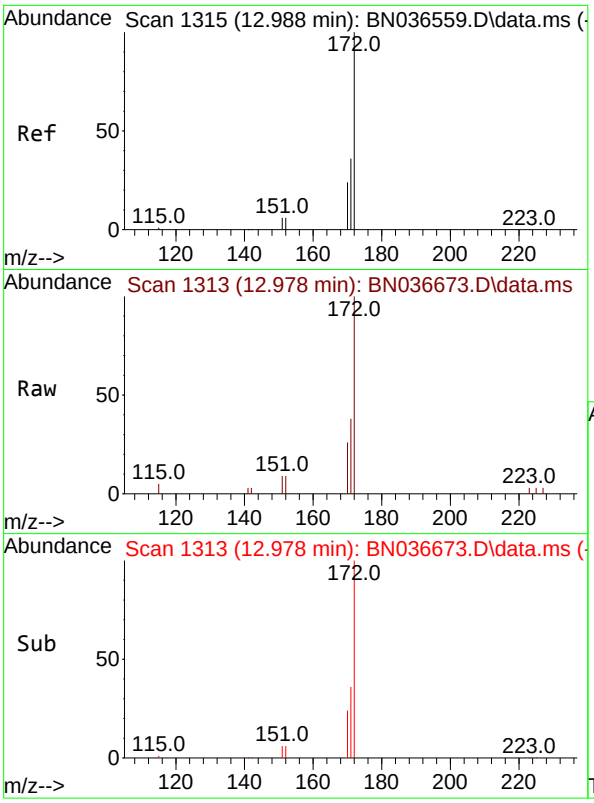


#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:330 Resp: 348

Ion	Ratio	Lower	Upper
330	100		
332	88.5	75.2	112.8
141	58.3	43.4	65.2



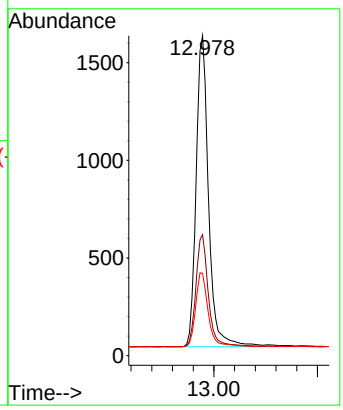


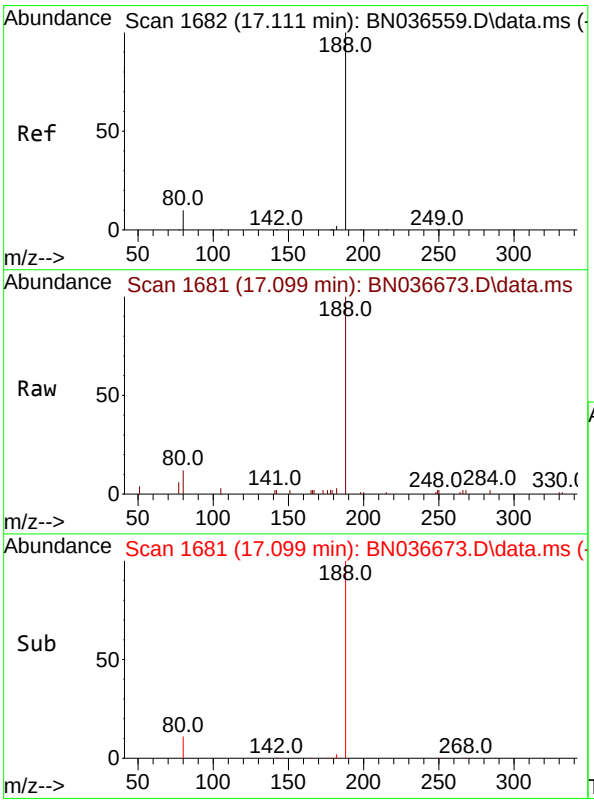
#15
2-Fluorobiphenyl
Concen: 0.266 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion:172 Resp: 3792

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.5	44.3
170	25.8	20.2	30.4

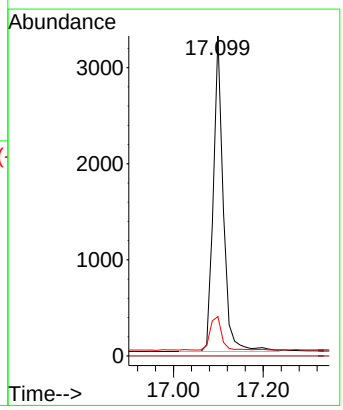


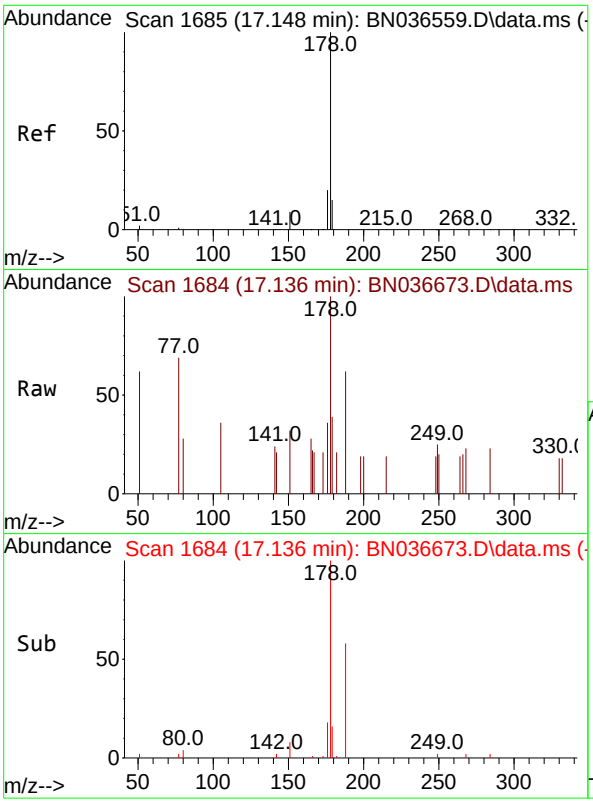


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:188 Resp: 5059

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



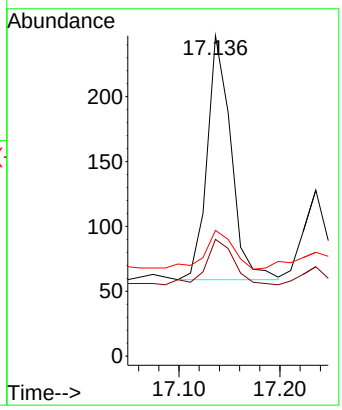


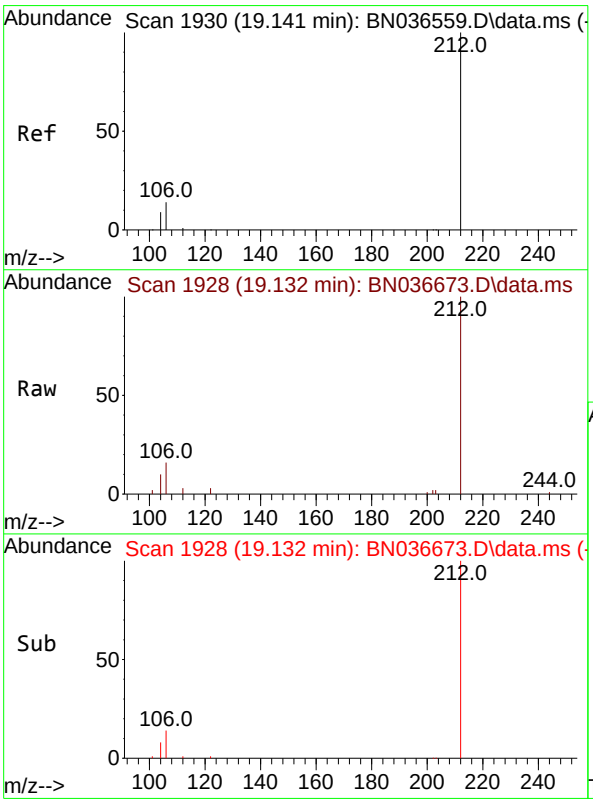
#25
Phenanthrene
Concen: 0.020 ng
RT: 17.136 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion:178 Resp: 309

Ion	Ratio	Lower	Upper
178	100		
176	25.9	15.9	23.9#
179	35.0	12.2	18.4#

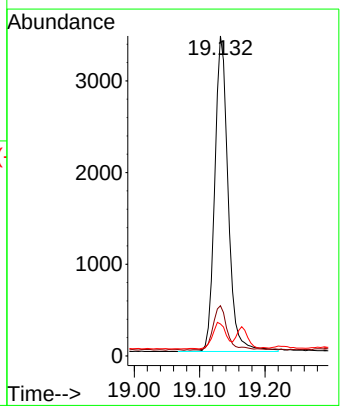


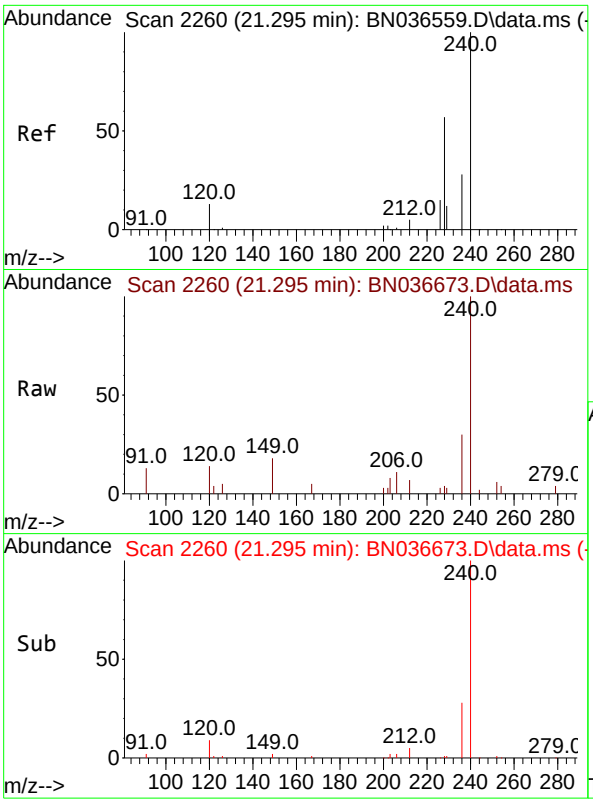


#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:212 Resp: 4901

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.6	7.3	10.9



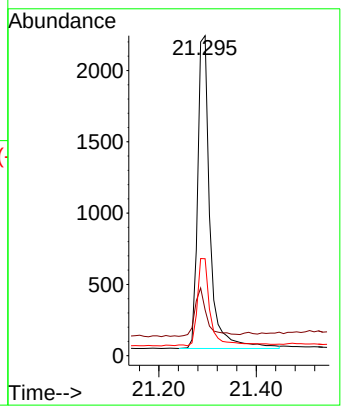


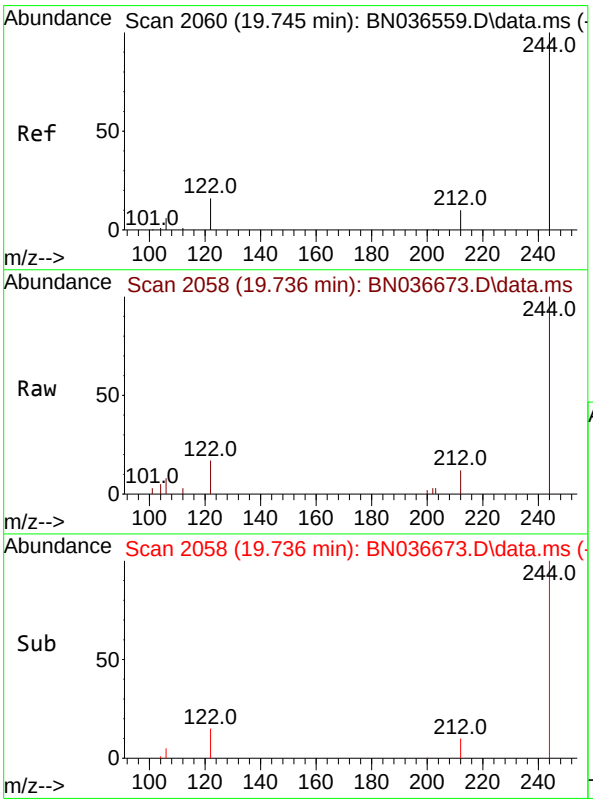
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion:240 Resp: 3831

Ion	Ratio	Lower	Upper
240	100		
120	14.3	14.6	22.0#
236	30.3	24.1	36.1

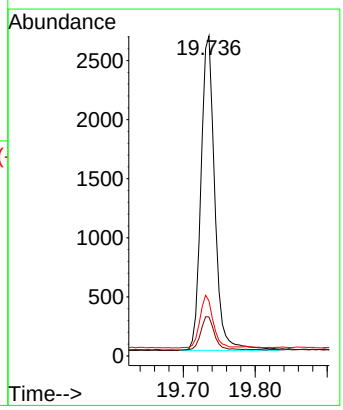


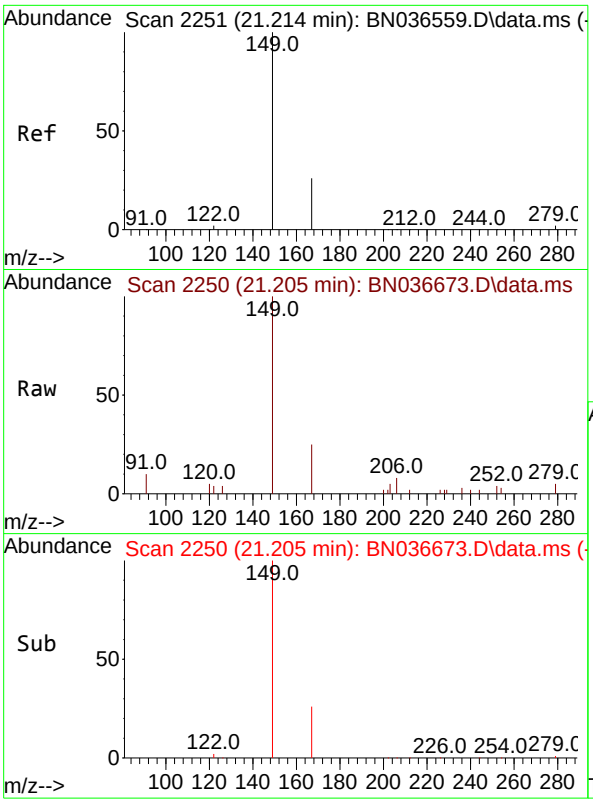


#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:244 Resp: 3551

Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	17.2	13.9	20.9



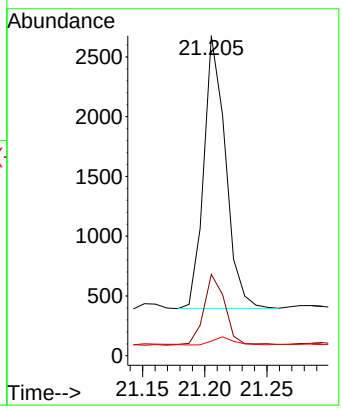


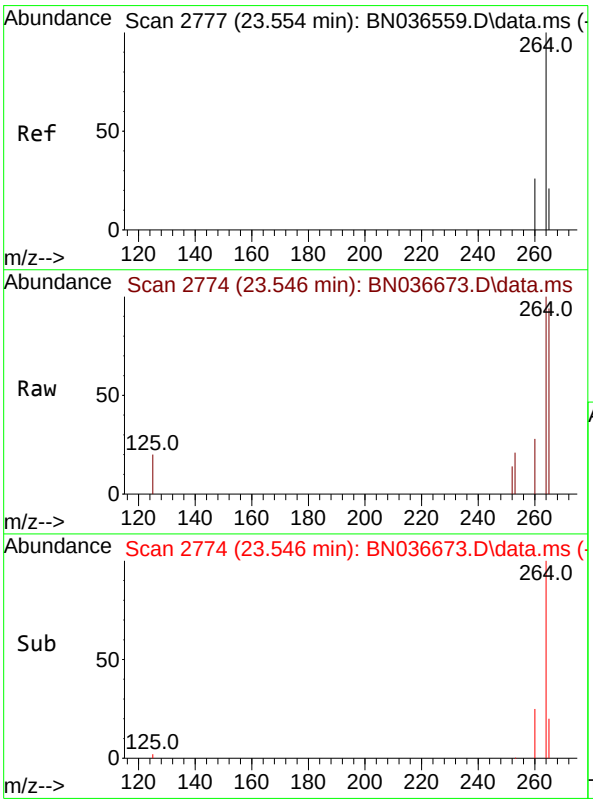
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.293 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Instrument :
BNA_N
ClientSampleId :
RE114D1-20250313

Tgt Ion:149 Resp: 2781

Ion	Ratio	Lower	Upper
149	100		
167	24.5	20.7	31.1
279	3.5	3.6	5.4#

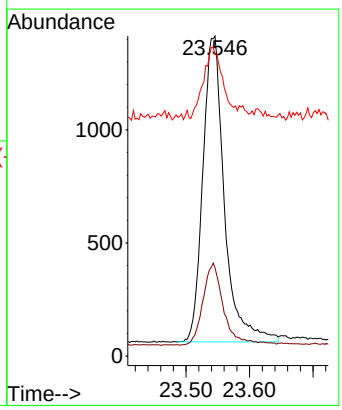




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036673.D
Acq: 18 Mar 2025 00:03

Tgt Ion:264 Resp: 3185

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.6	33.8
265	94.2	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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	BPOW1-7-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-11	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
BN036674.D	1	03/17/25 08:48	03/18/25 00:39	PB167159

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1840	7.717				
1146-65-2	Naphthalene-d8	4420	10.498				
15067-26-2	Acenaphthene-d10	2740	14.355				
1517-22-2	Phenanthrene-d10	5300	17.099				
1719-03-5	Chrysene-d12	3400	21.295				
1520-96-3	Perylene-d12	2780	23.54				

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\BN031725\
Data File : BN036674.D
Acq On : 18 Mar 2025 00:39
Operator : RC/JU
Sample : Q1582-11
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 01:19:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1843	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4422	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2743	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5303	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3399	0.400	ng	0.00
35) Perylene-d12	23.540	264	2777	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	692	0.161	ng	0.00
5) Phenol-d6	6.894	99	458	0.086	ng	0.00
8) Nitrobenzene-d5	8.875	82	1347	0.280	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1913	0.291	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	454	0.365	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4694	0.294	ng	-0.01
27) Fluoranthene-d10	19.132	212	5847	0.430	ng	0.00
31) Terphenyl-d14	19.736	244	4142	0.509	ng	0.00
Target Compounds						Qvalue
28) Fluoranthene	19.164	202	392	0.022	ng	# 5
30) Pyrene	19.527	202	368	0.022	ng	# 91
33) Chrysene	21.331	228	263	0.020	ng	# 65
34) Bis(2-ethylhexyl)phtha...	21.205	149	3267m	0.388	ng	

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

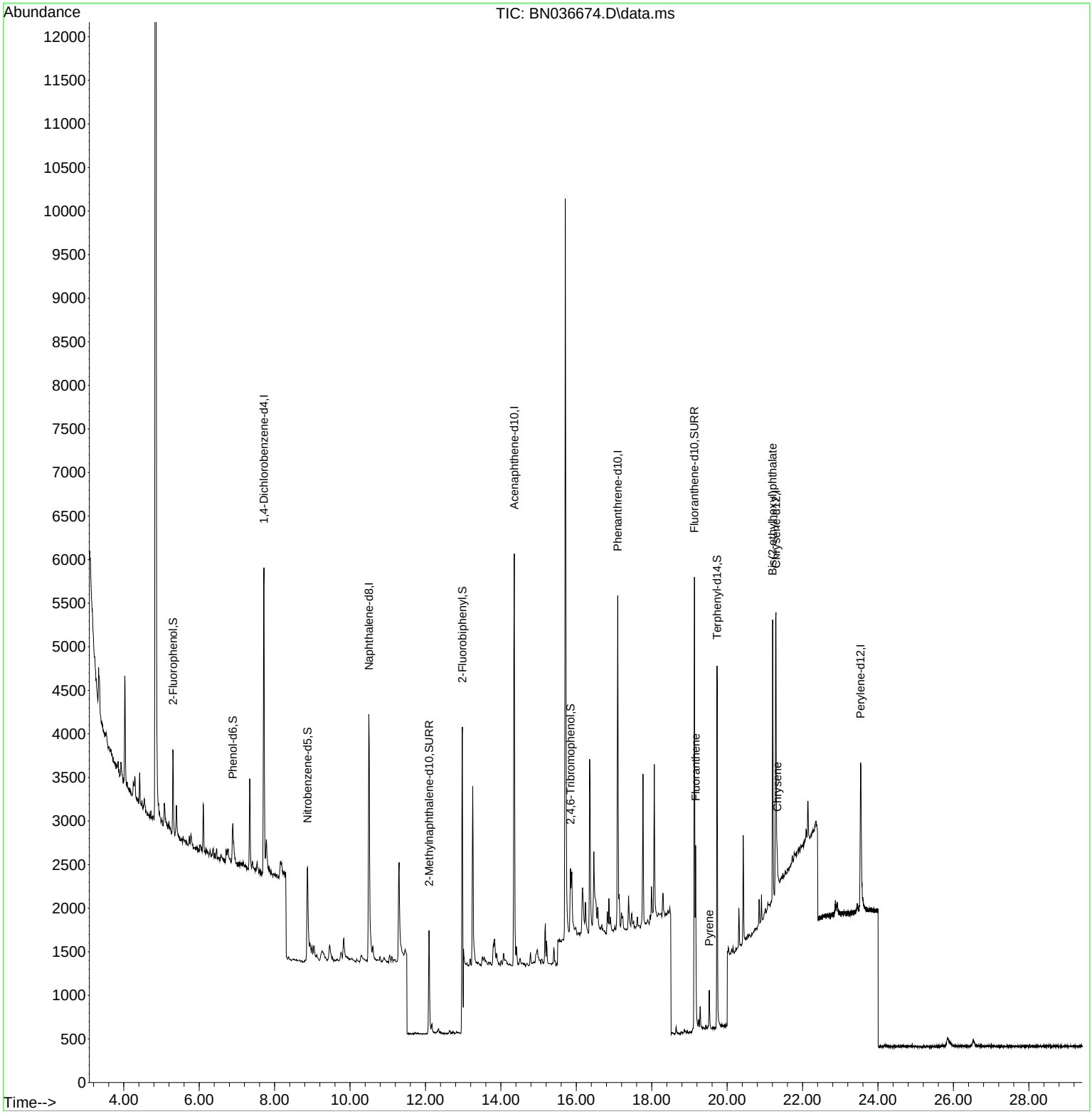
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036674.D
Acq On : 18 Mar 2025 00:39
Operator : RC/JU
Sample : Q1582-11
Misc :
ALS Vial : 24 Sample Multiplier: 1

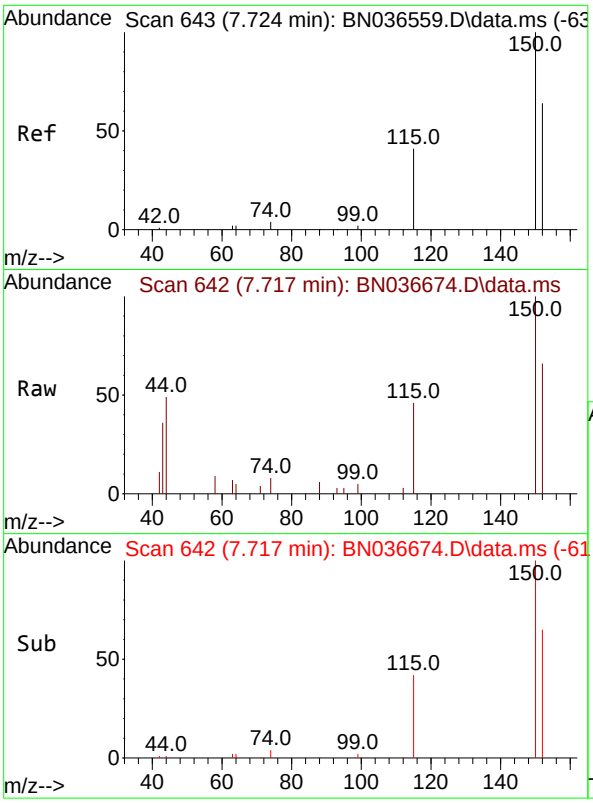
Quant Time: Mar 18 01:19:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

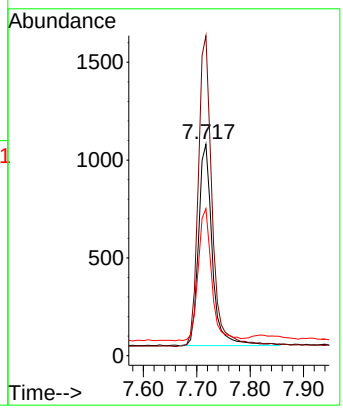




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:152 Resp: 184

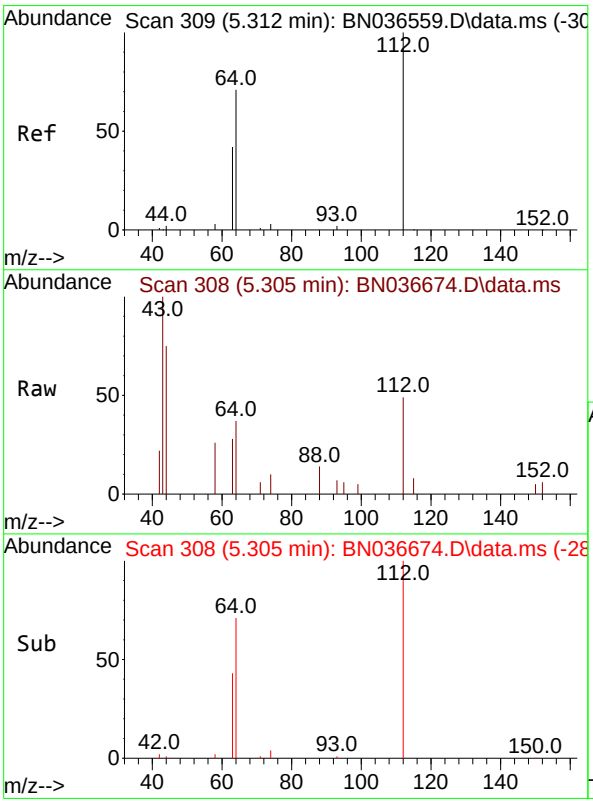
Ion	Ratio	Lower	Upper
152	100		
150	151.3	123.7	185.5
115	69.6	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations APPROVED

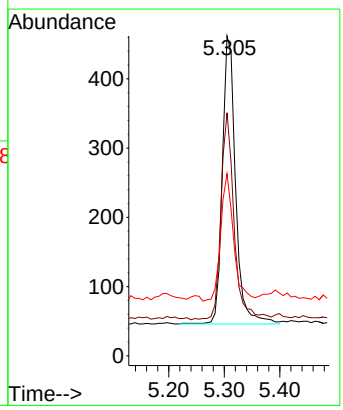
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

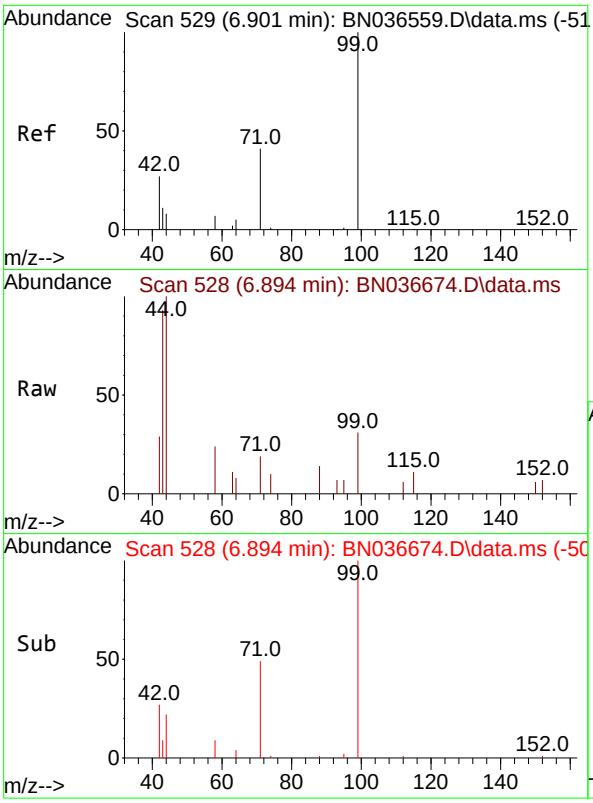


#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:112 Resp: 692

Ion	Ratio	Lower	Upper
112	100		
64	69.9	53.1	79.7
63	42.8	31.8	47.8

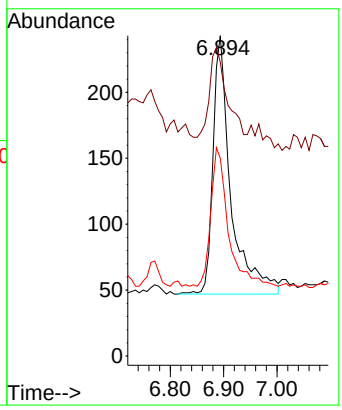




#5
Phenol-d6
Concen: 0.086 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion: 99 Resp: 45

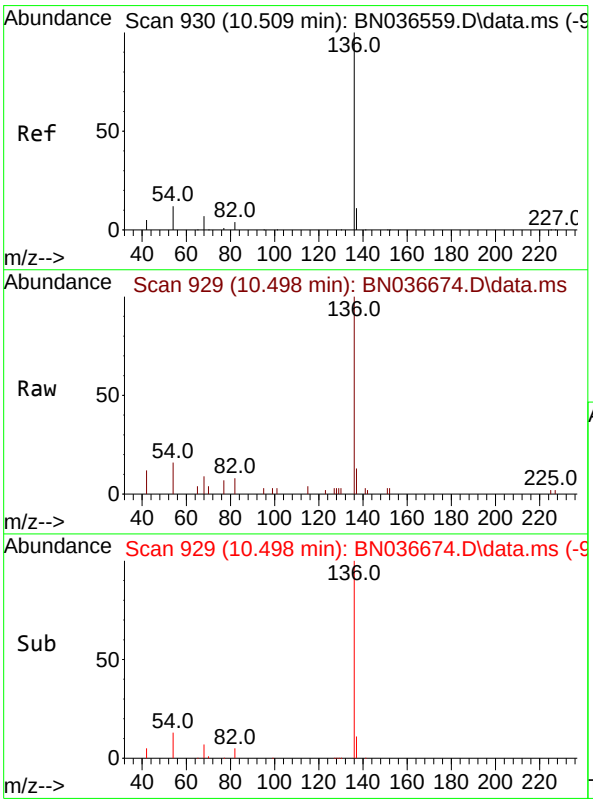
Ion	Ratio	Lower	Upper
99	100		
42	34.9	26.5	39.7
71	52.8	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations APPROVED

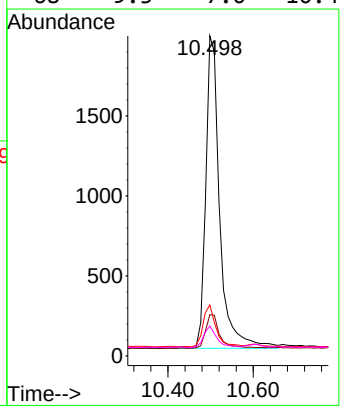
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

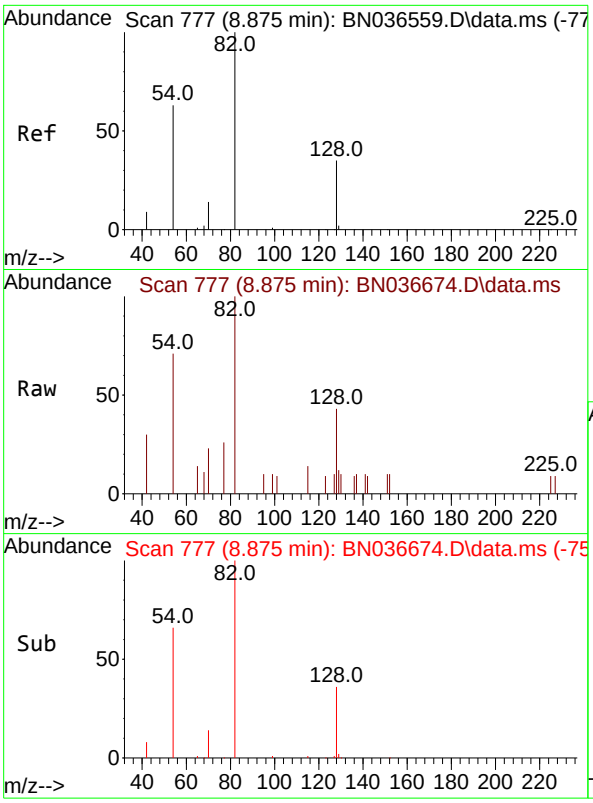


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:136 Resp: 4422

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	16.0	11.5	17.3
68	9.3	7.0	10.4





#8
Nitrobenzene-d5
Concen: 0.280 ng
RT: 8.875 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

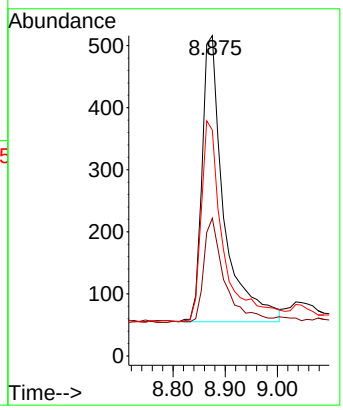
Tgt Ion: 82 Resp: 134

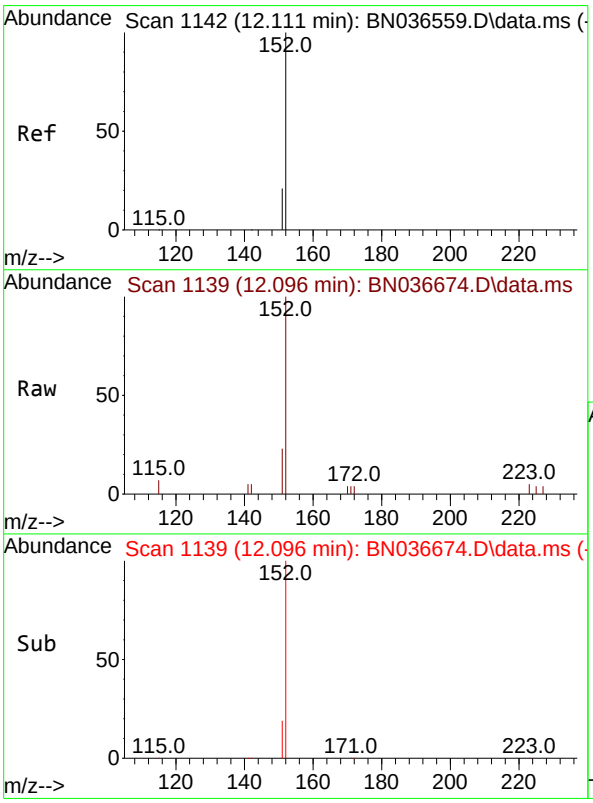
Ion	Ratio	Lower	Upper
82	100		
128	43.0	30.6	45.8
54	70.5	52.2	78.4

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

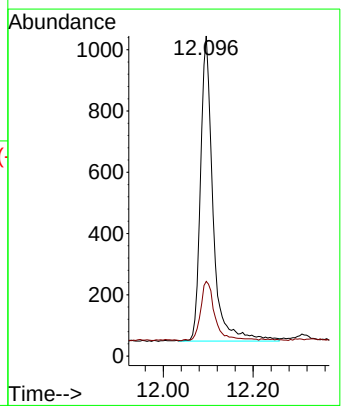


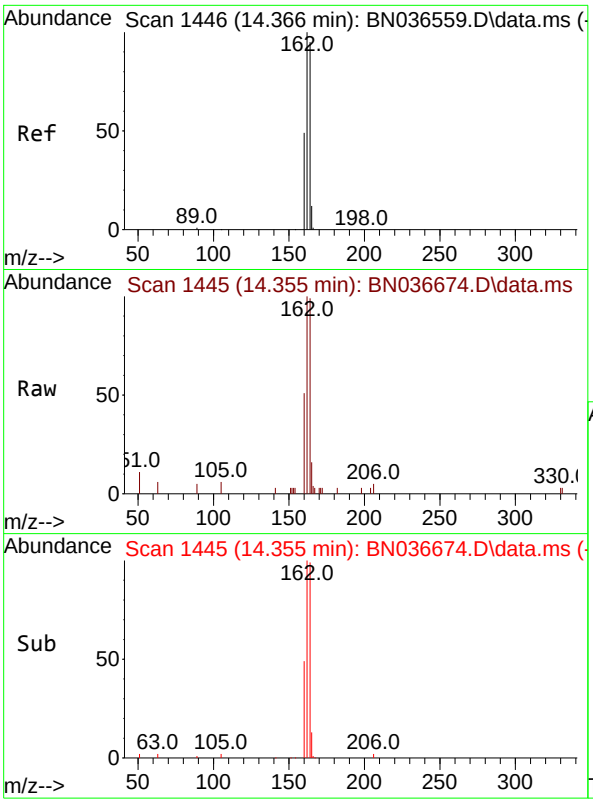


#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:152 Resp: 1913

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

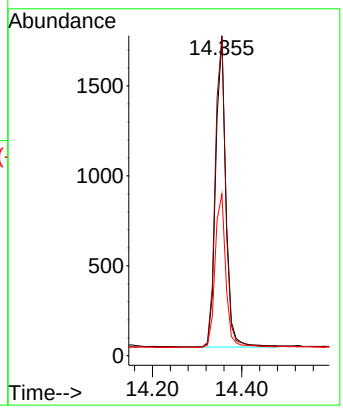




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:164 Resp: 274

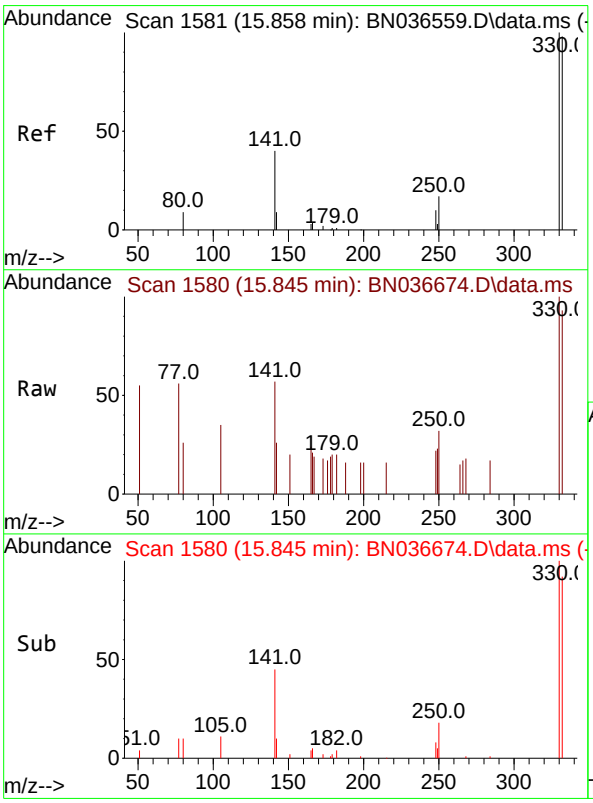
Ion	Ratio	Lower	Upper
164	100		
162	100.9	84.2	126.2
160	51.0	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations
APPROVED

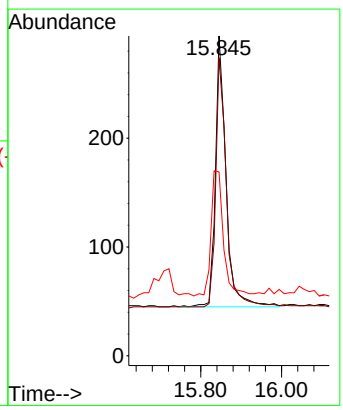
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

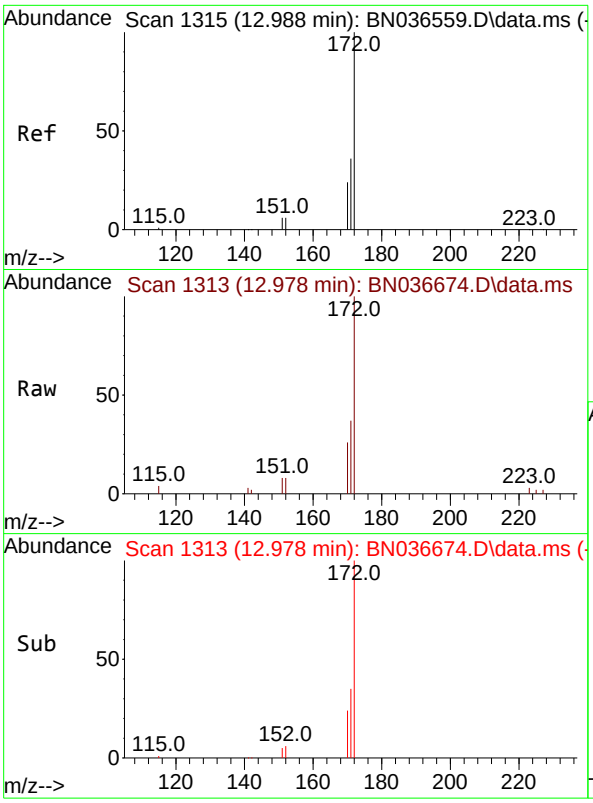


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:330 Resp: 454

Ion	Ratio	Lower	Upper
330	100		
332	92.1	75.2	112.8
141	54.0	43.4	65.2

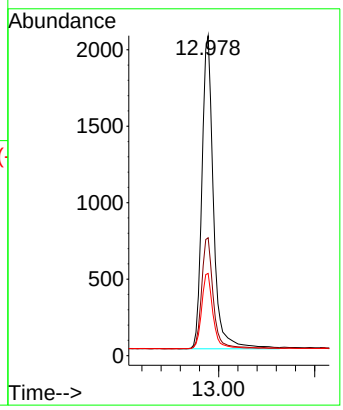




#15
2-Fluorobiphenyl
Concen: 0.294 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:172 Resp: 469

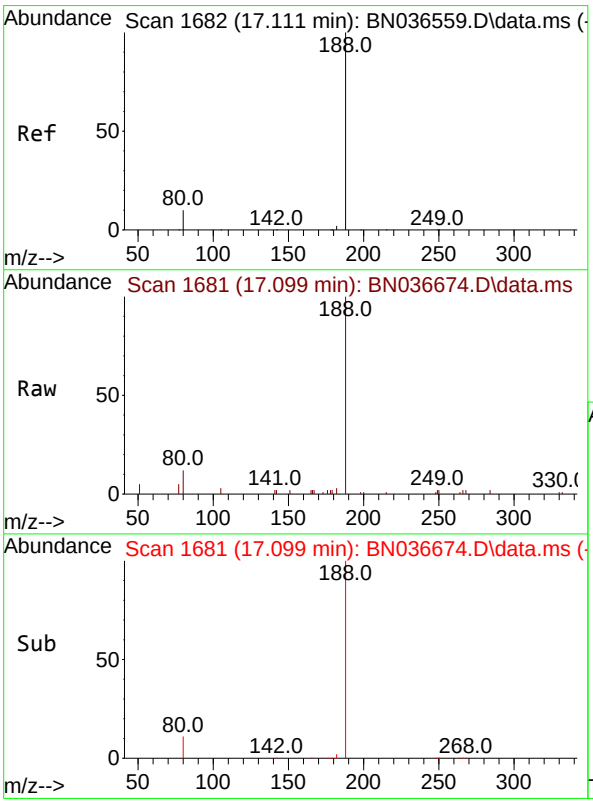
Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.5	44.3
170	25.7	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations APPROVED

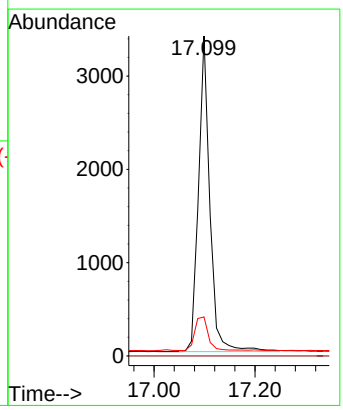
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

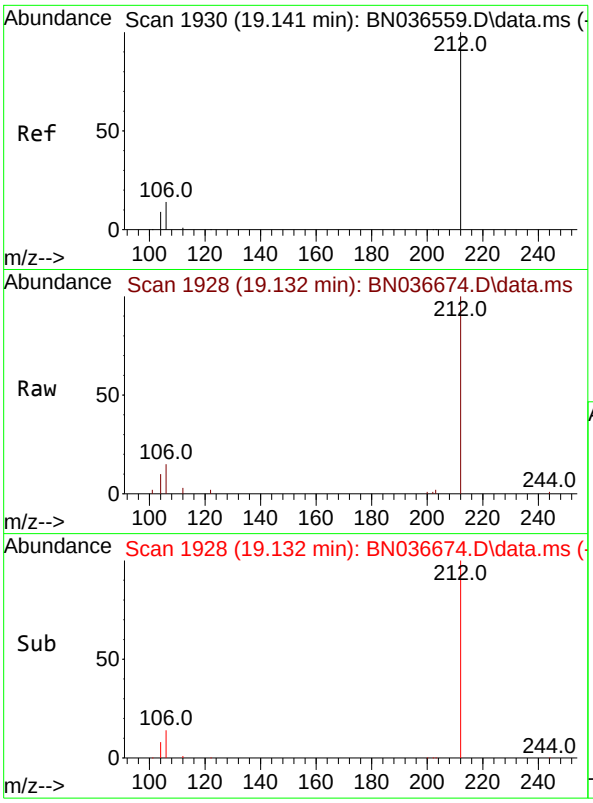


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:188 Resp: 5303

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	8.8	13.2

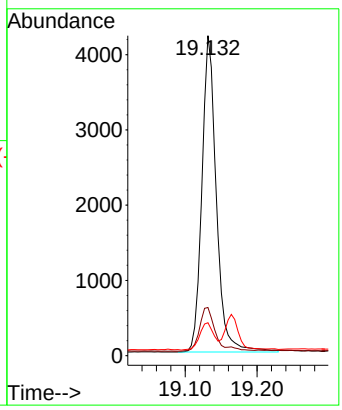




#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:212 Resp: 584

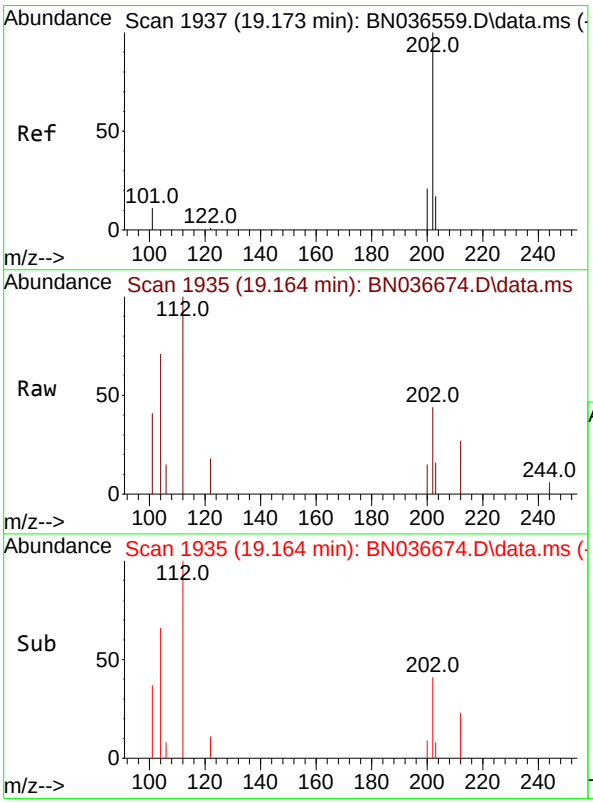
Ion	Ratio	Lower	Upper
212	100		
106	15.1	11.8	17.6
104	8.4	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations
APPROVED

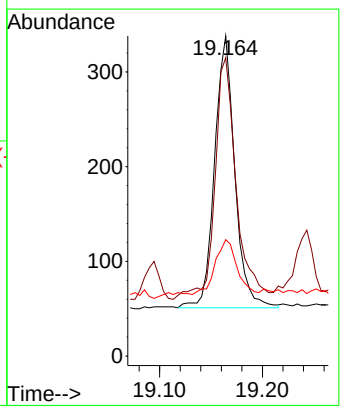
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

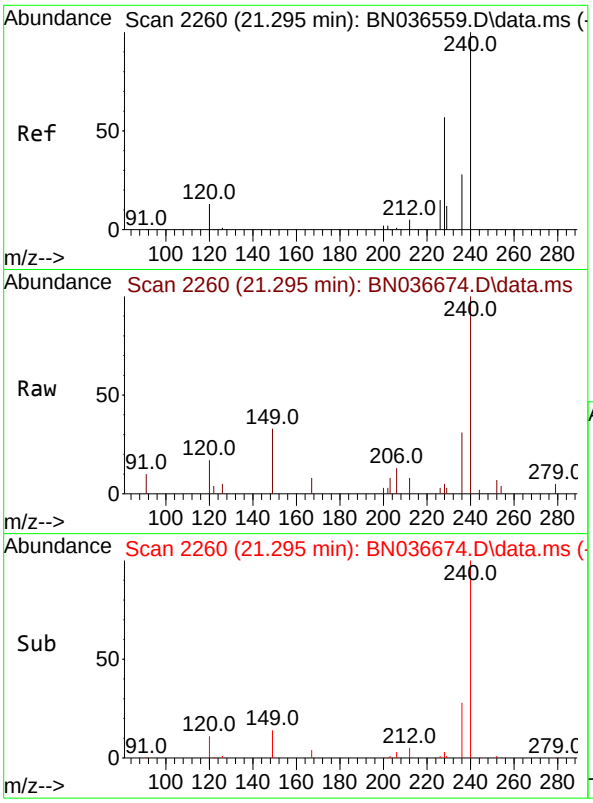


#28
Fluoranthene
Concen: 0.022 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:202 Resp: 392

Ion	Ratio	Lower	Upper
202	100		
101	94.9	9.4	14.0#
203	22.2	13.5	20.3#

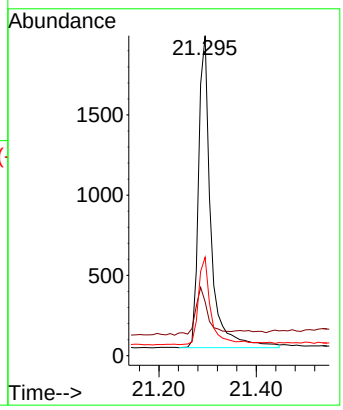




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:240 Resp: 339

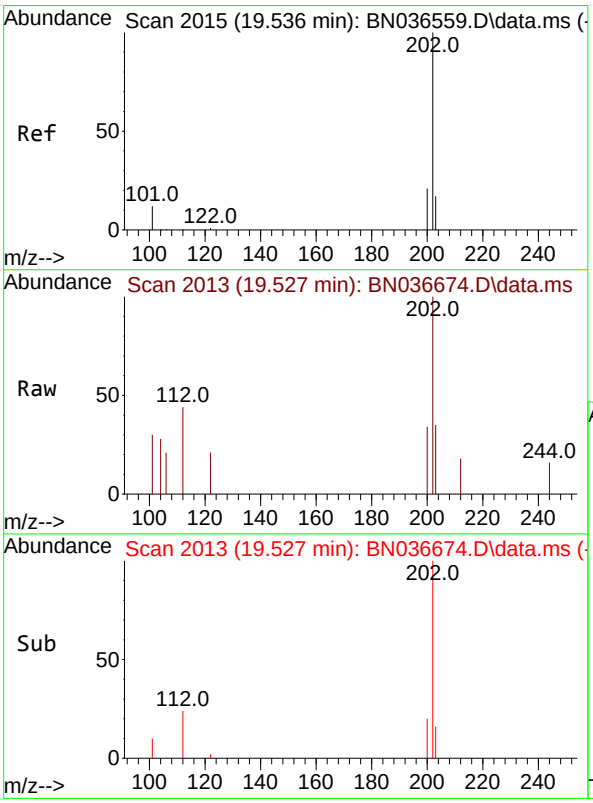
Ion	Ratio	Lower	Upper
240	100		
120	16.9	14.6	22.0
236	30.7	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations APPROVED

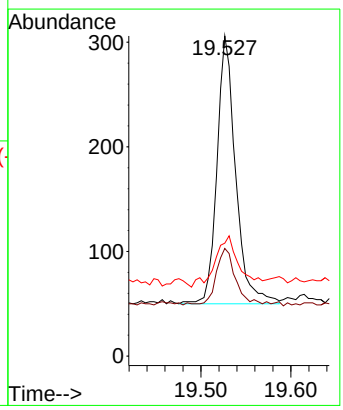
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

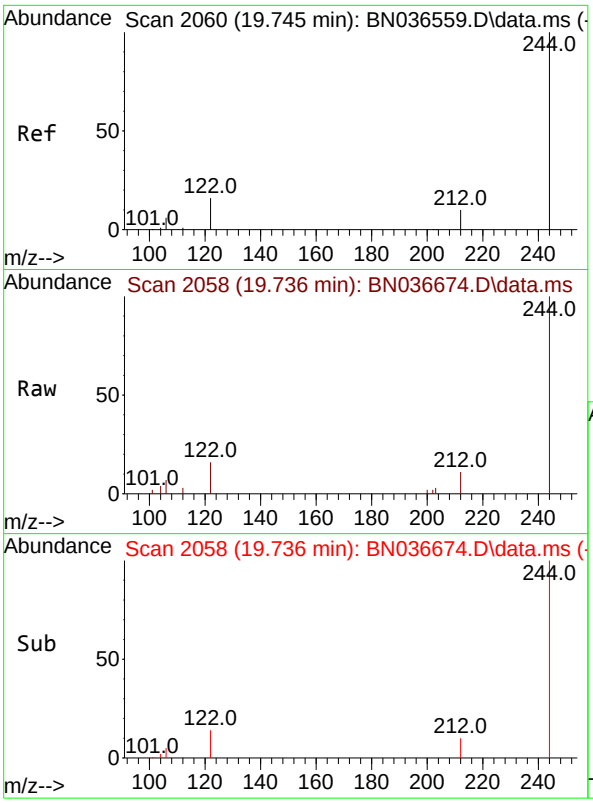


#30
Pyrene
Concen: 0.022 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:202 Resp: 368

Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.1	25.7
203	24.5	14.1	21.1#

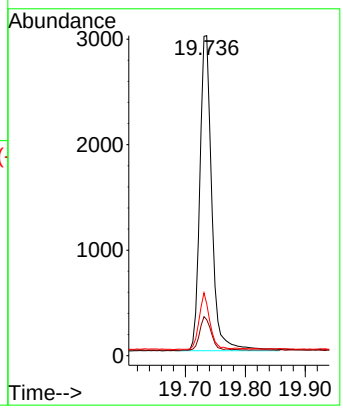




#31
Terphenyl-d14
Concen: 0.509 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:244 Resp: 414

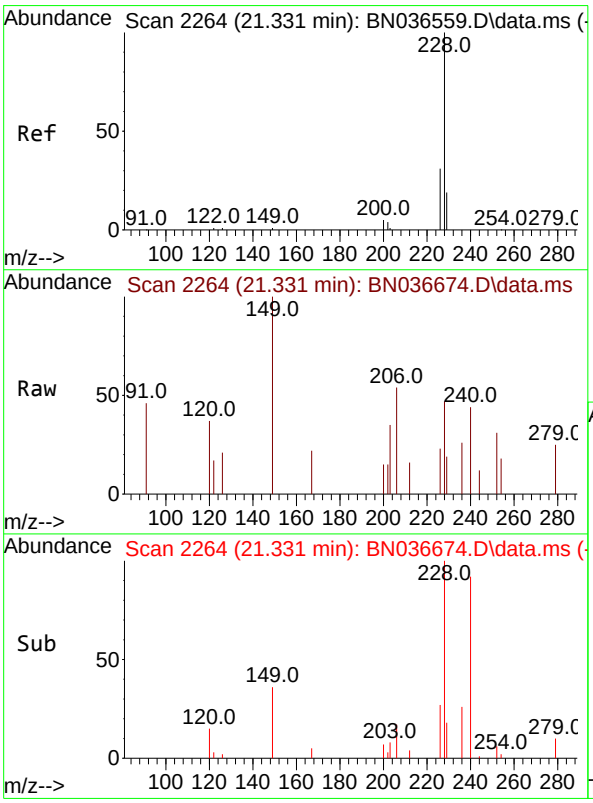
Ion	Ratio	Lower	Upper
244	100		
212	11.2	9.6	14.4
122	16.2	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations
APPROVED

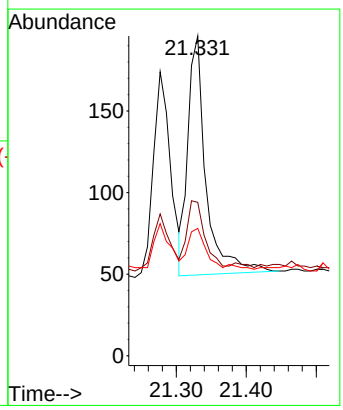
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

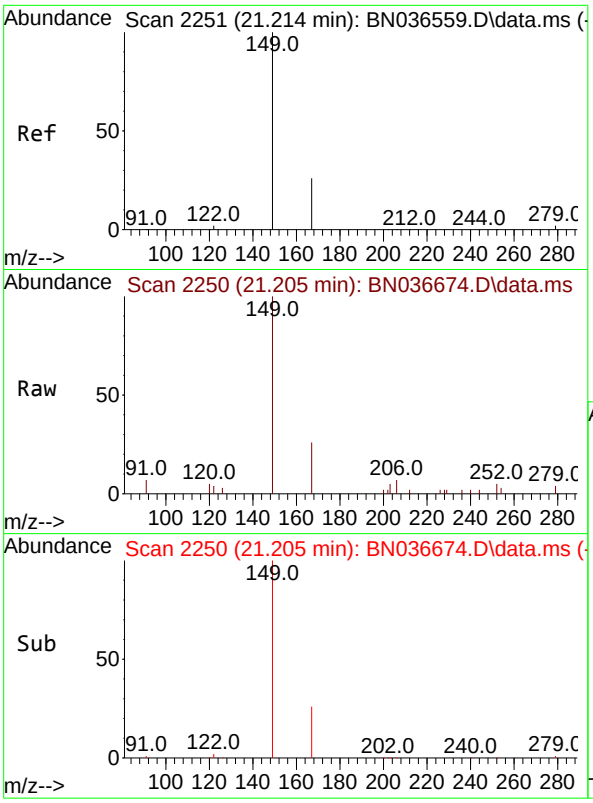


#33
Chrysene
Concen: 0.020 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:228 Resp: 263

Ion	Ratio	Lower	Upper
228	100		
226	48.0	25.3	37.9#
229	39.8	15.8	23.8#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.388 ng m
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

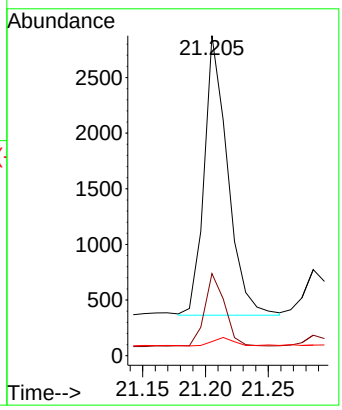
Tgt Ion:149 Resp: 326

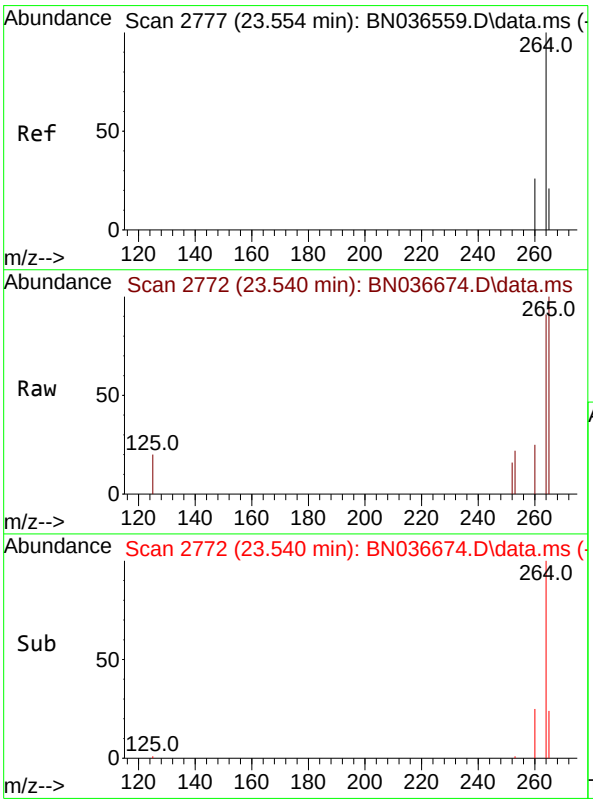
Ion	Ratio	Lower	Upper
149	100		
167	22.2	20.7	31.1
279	2.7	3.6	5.4

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

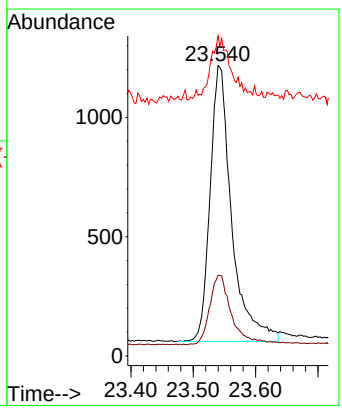




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.540 min Scan# 2772
Delta R.T. -0.015 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:264 Resp: 2777

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.6	33.8
265	110.2	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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	BPOW1-8-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-12	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
BN036675.D	1	03/17/25 08:48	03/18/25 01:15	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	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	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	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	1650	7.717				
1146-65-2	Naphthalene-d8	4060	10.498				
15067-26-2	Acenaphthene-d10	2500	14.356				
1517-22-2	Phenanthrene-d10	4950	17.099				
1719-03-5	Chrysene-d12	3330	21.295				
1520-96-3	Perylene-d12	2720	23.546				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036675.D
Acq On : 18 Mar 2025 01:15
Operator : RC/JU
Sample : Q1582-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Quant Time: Mar 18 01:42:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

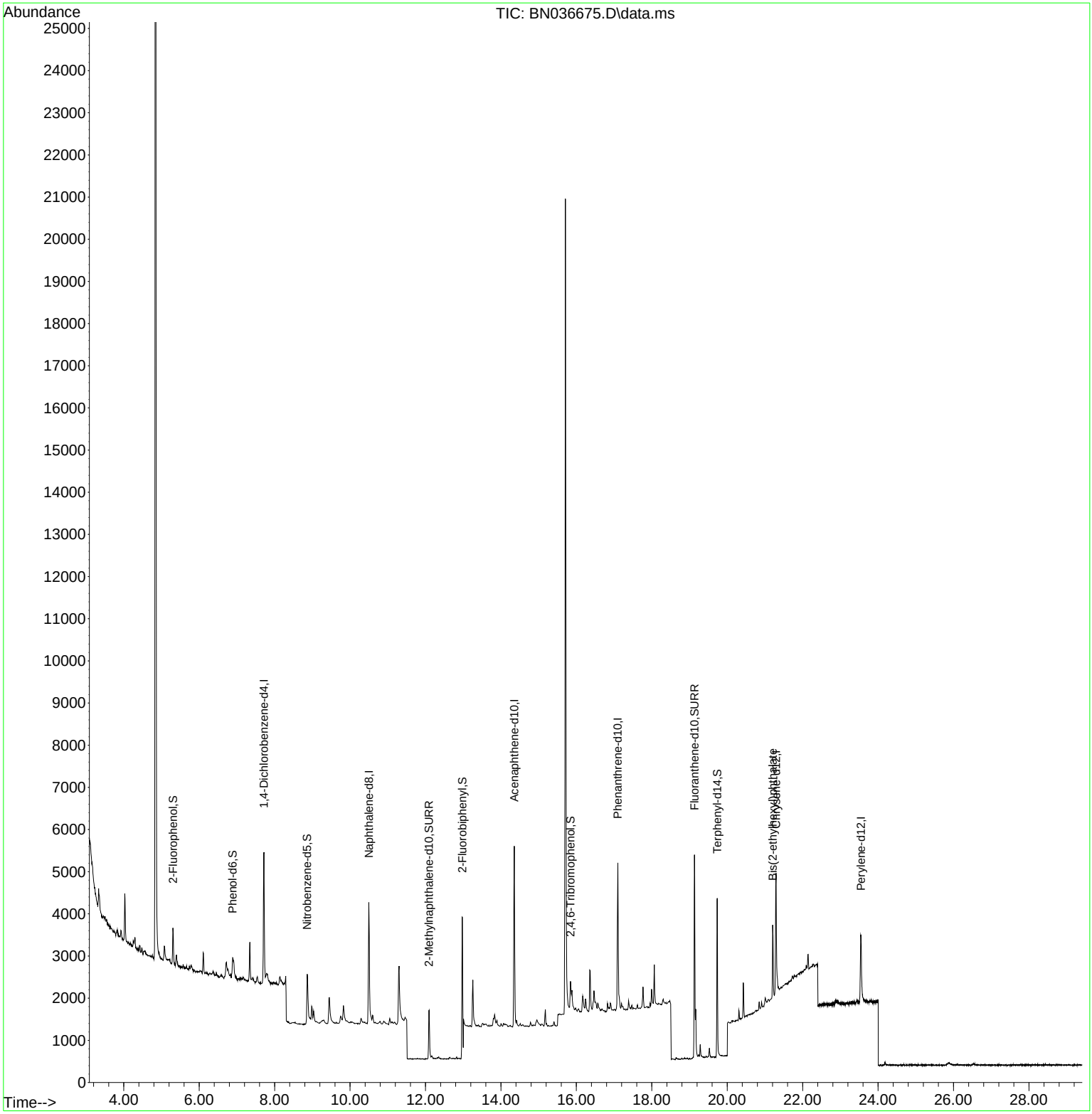
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1645	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4058	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	2499	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4951	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3334	0.400	ng	0.00
35) Perylene-d12	23.546	264	2721	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	618	0.161	ng	0.00
5) Phenol-d6	6.887	99	452	0.095	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1310	0.297	ng	-0.01
11) 2-Methylnaphthalene-d10	12.091	152	1840	0.305	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	403	0.355	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4719	0.325	ng	0.00
27) Fluoranthene-d10	19.132	212	5519	0.435	ng	0.00
31) Terphenyl-d14	19.736	244	3951	0.495	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.205	149	1901	0.230	ng	# 93

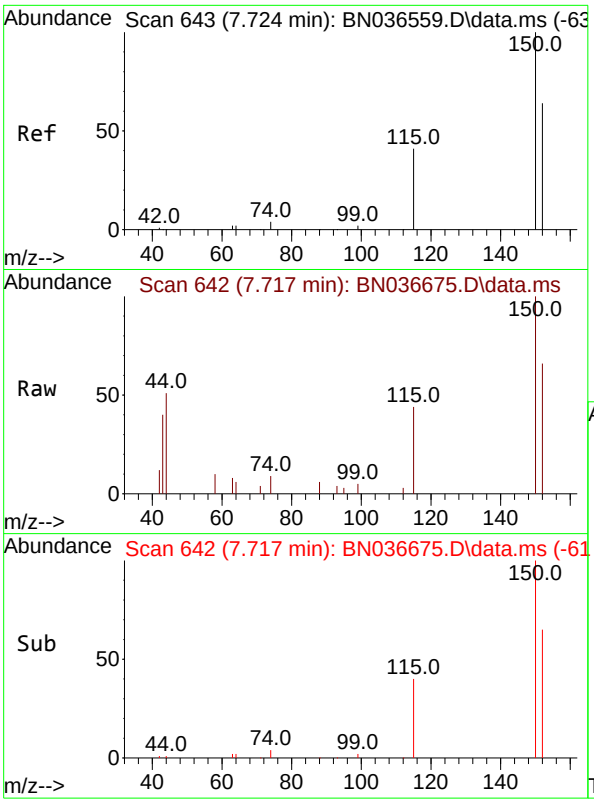
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036675.D
Acq On : 18 Mar 2025 01:15
Operator : RC/JU
Sample : Q1582-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Quant Time: Mar 18 01:42:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



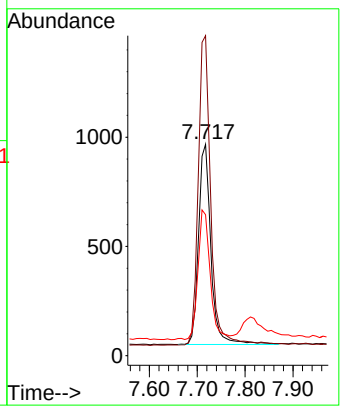


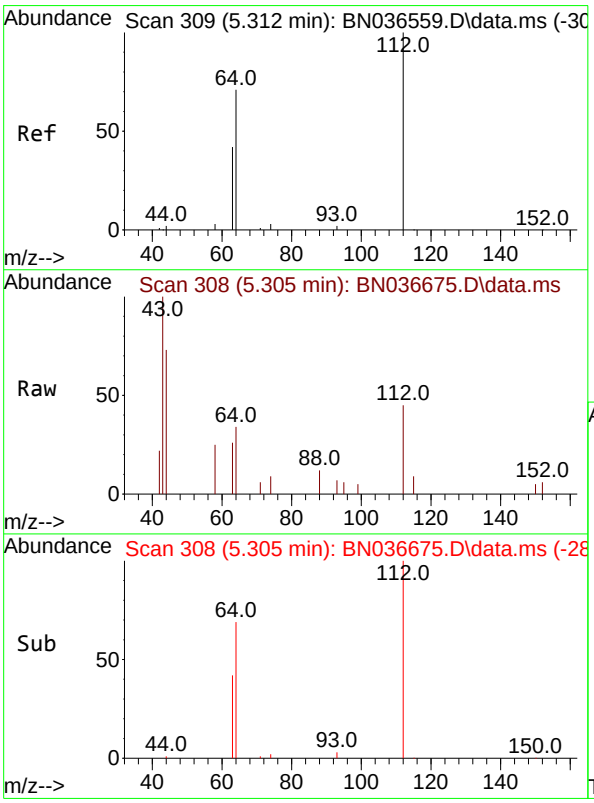
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Tgt Ion:152 Resp: 1645

Ion	Ratio	Lower	Upper
152	100		
150	151.3	123.7	185.5
115	66.6	54.3	81.5

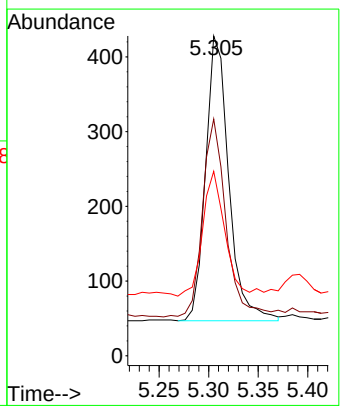


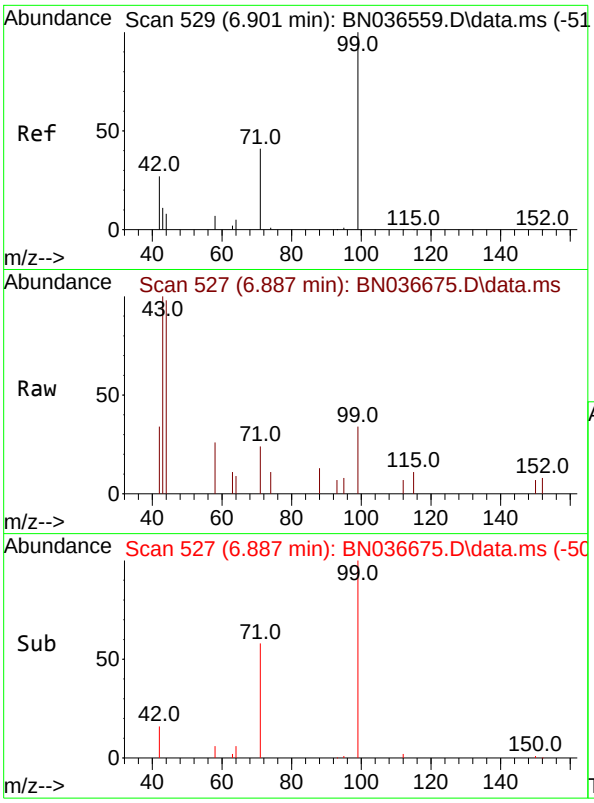


#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:112 Resp: 618

Ion	Ratio	Lower	Upper
112	100		
64	70.1	53.1	79.7
63	41.4	31.8	47.8



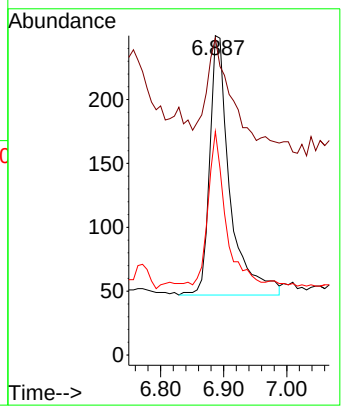


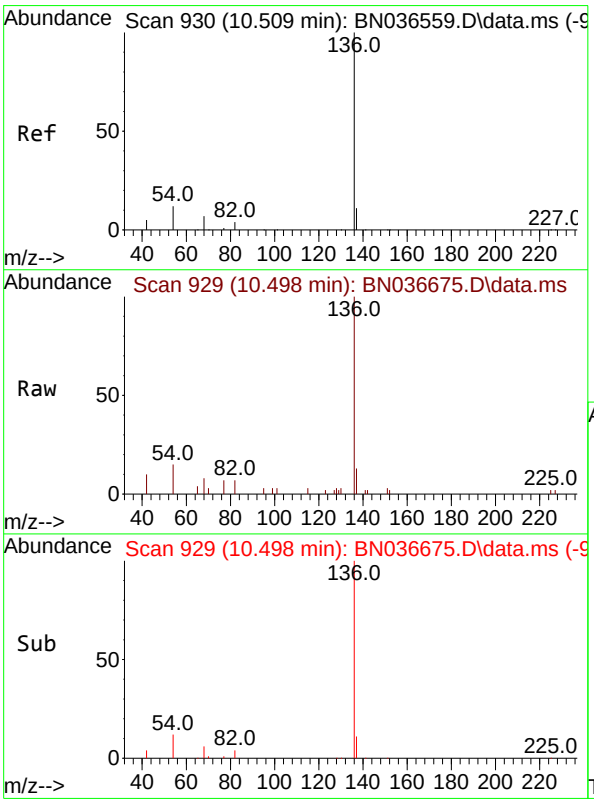
#5
Phenol-d6
Concen: 0.095 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Tgt Ion: 99 Resp: 452

Ion	Ratio	Lower	Upper
99	100		
42	62.6	26.5	39.7#
71	48.9	34.1	51.1

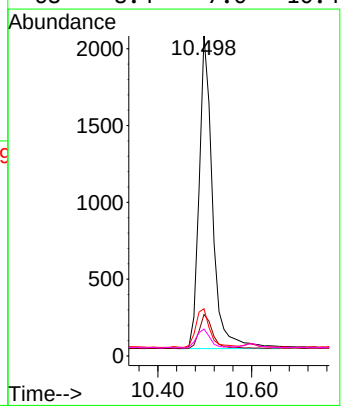


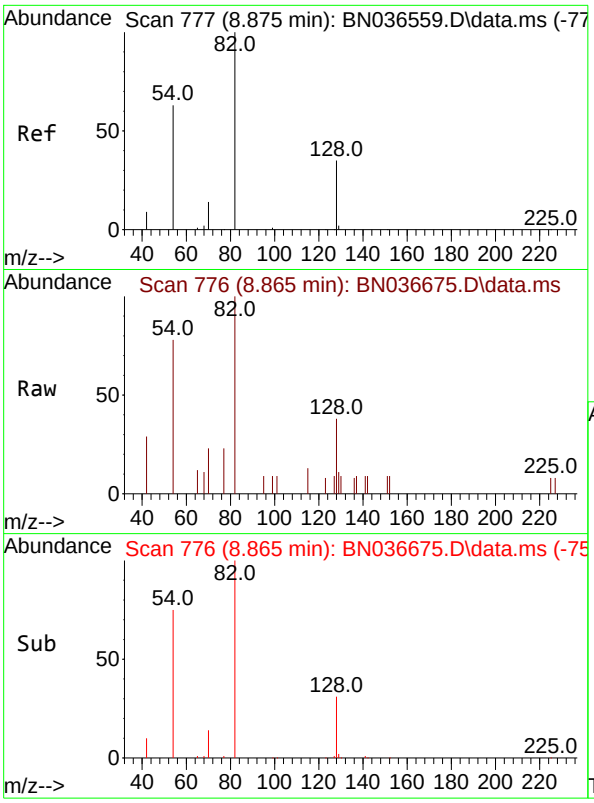


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.010 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:136 Resp: 4058

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	14.8	11.5	17.3
68	8.4	7.0	10.4



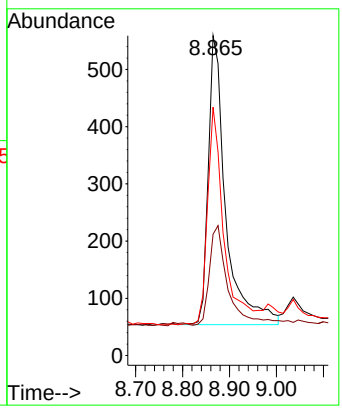


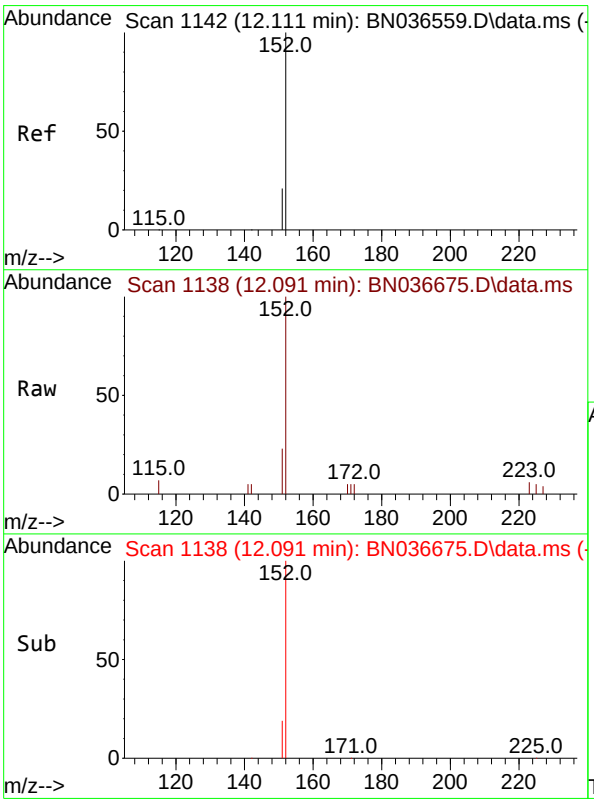
#8
Nitrobenzene-d5
Concen: 0.297 ng
RT: 8.865 min Scan# 7
Delta R.T. -0.010 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Tgt Ion: 82 Resp: 1310

Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	77.6	52.2	78.4

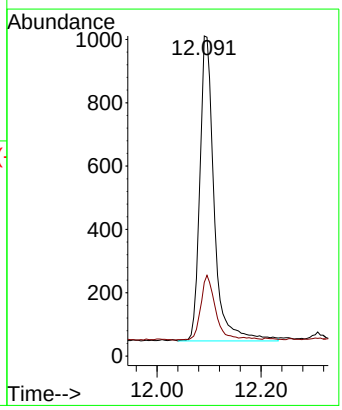


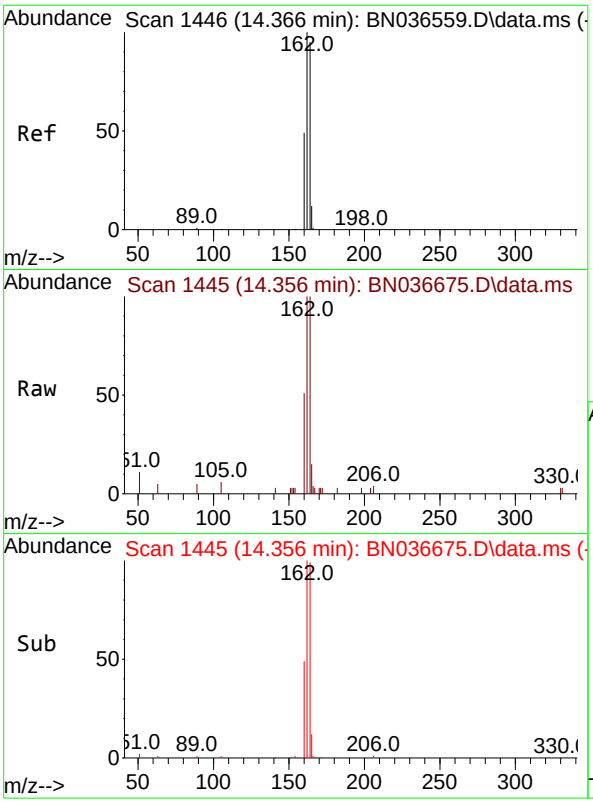


#11
2-Methylnaphthalene-d10
Concen: 0.305 ng
RT: 12.091 min Scan# 1138
Delta R.T. -0.020 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:152 Resp: 1840

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.0	25.6



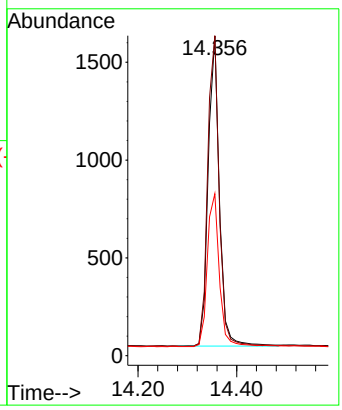


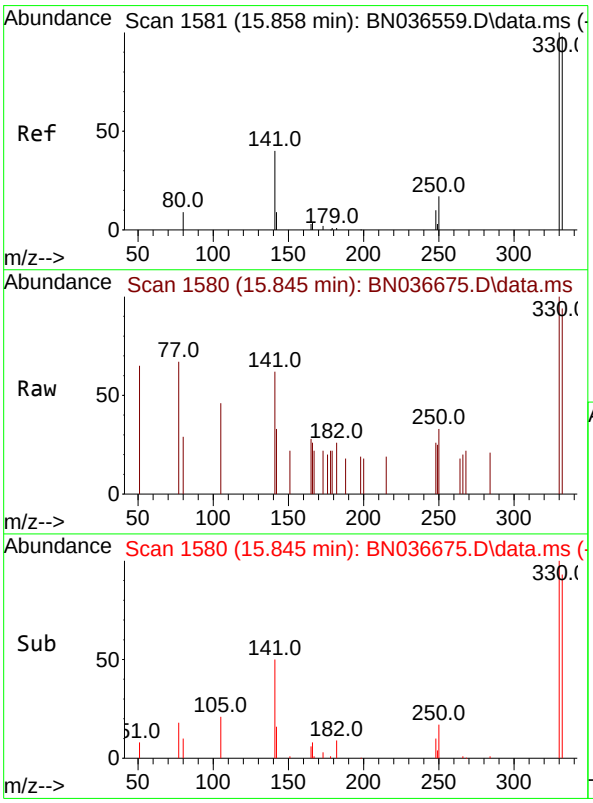
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Tgt Ion:164 Resp: 2499

Ion	Ratio	Lower	Upper
164	100		
162	100.1	84.2	126.2
160	50.7	42.2	63.2

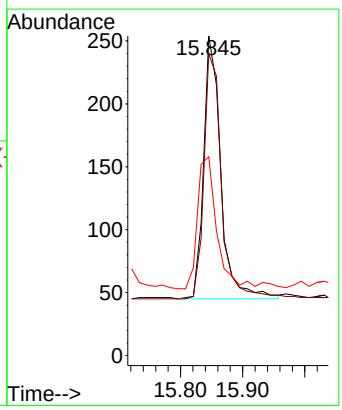


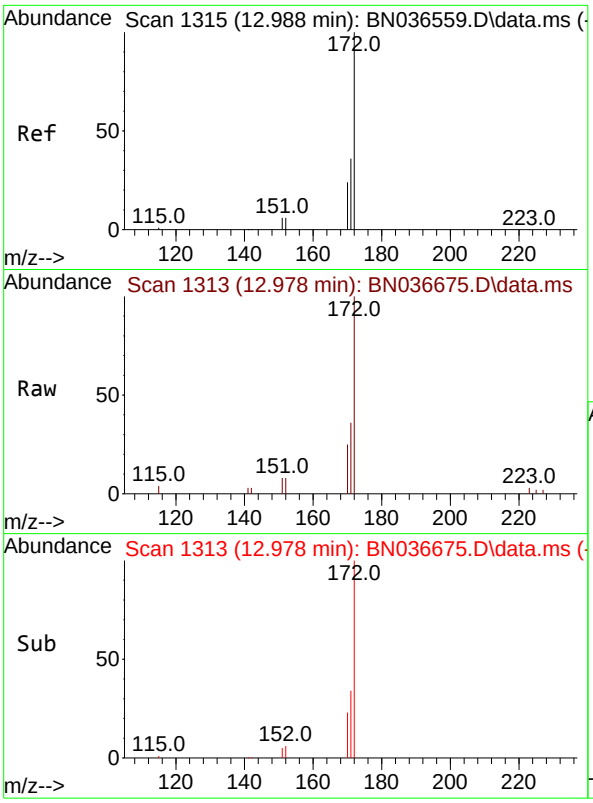


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:330 Resp: 403

Ion	Ratio	Lower	Upper
330	100		
332	96.0	75.2	112.8
141	56.1	43.4	65.2



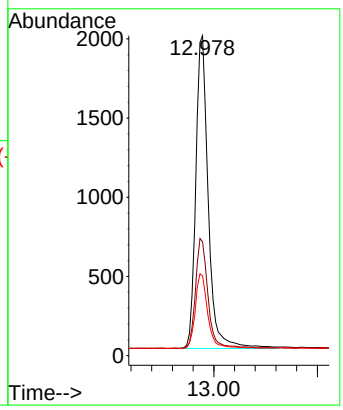


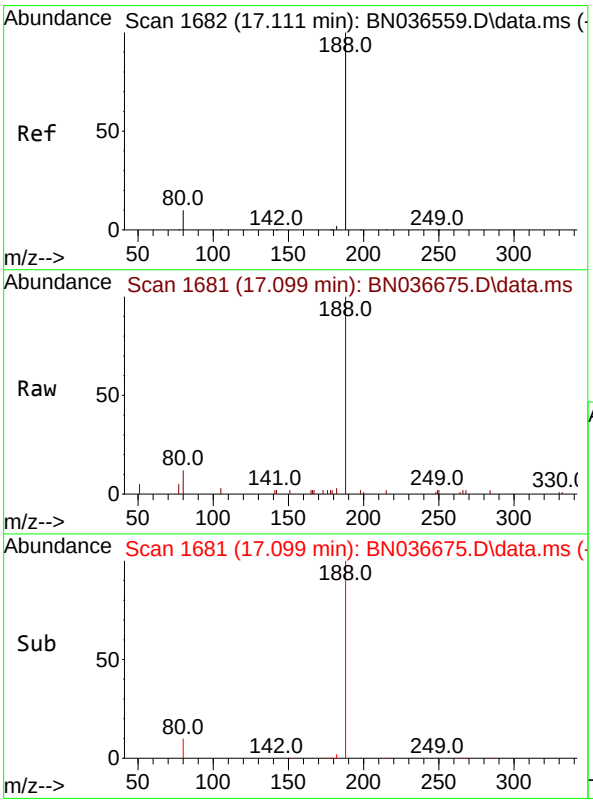
#15
2-Fluorobiphenyl
Concen: 0.325 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Tgt Ion:172 Resp: 4719

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.5	44.3
170	25.0	20.2	30.4

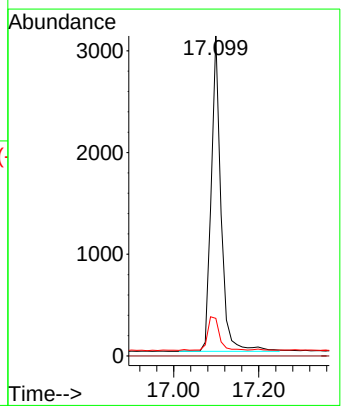


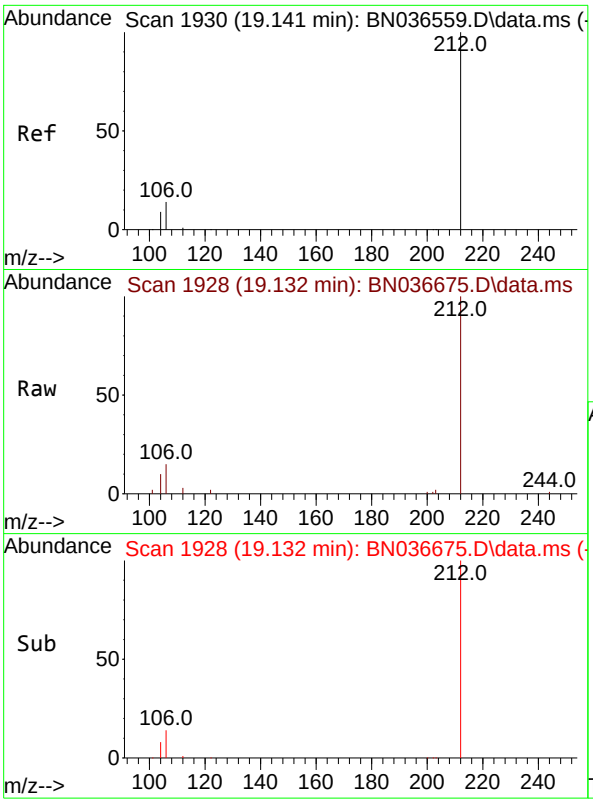


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:188 Resp: 4951

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



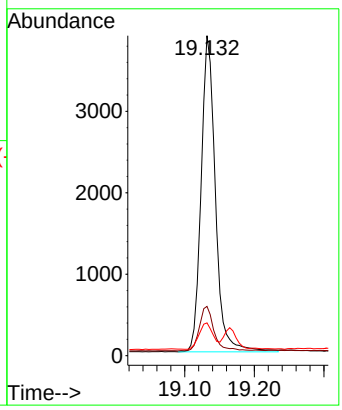


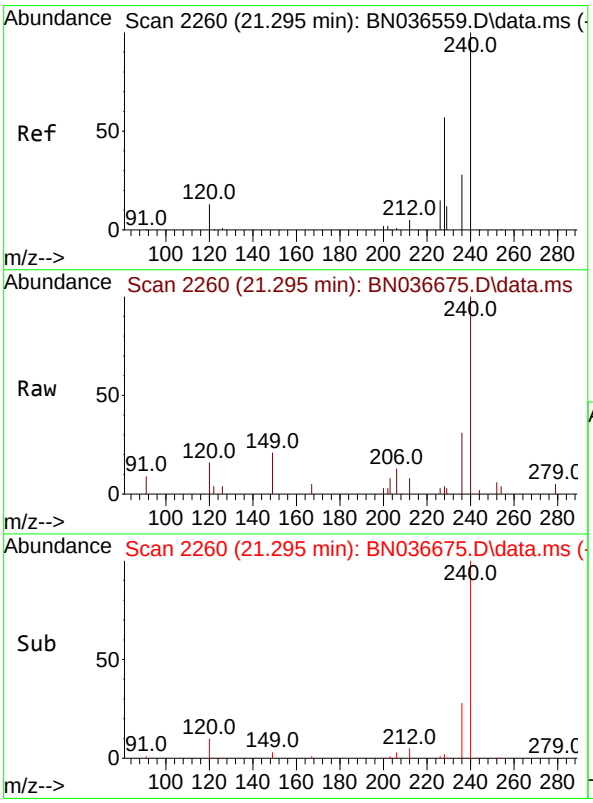
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Tgt Ion:212 Resp: 5519

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.4	7.3	10.9

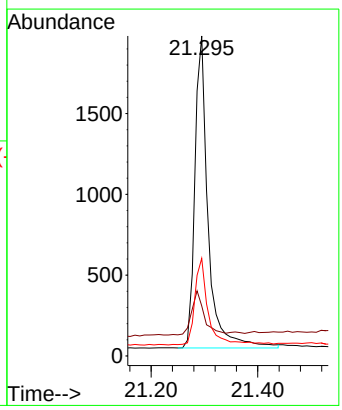


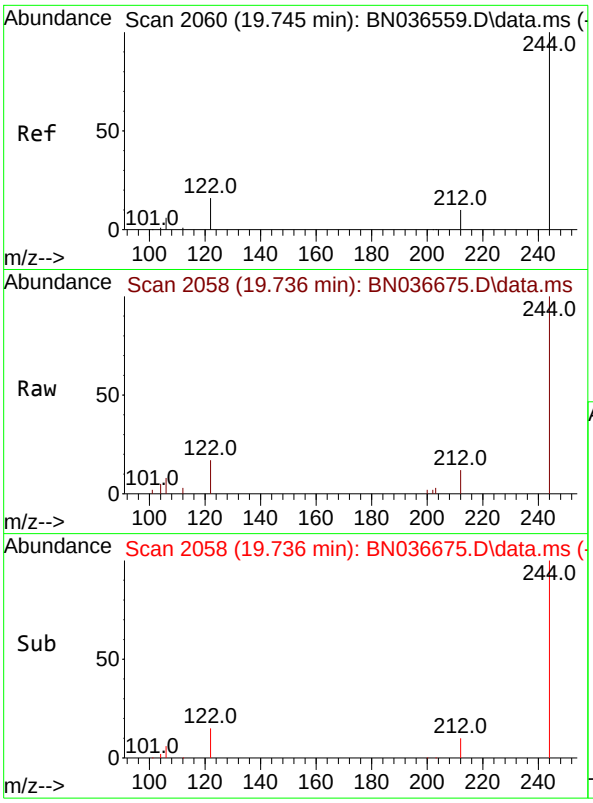


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:240 Resp: 3334

Ion	Ratio	Lower	Upper
240	100		
120	15.7	14.6	22.0
236	30.5	24.1	36.1



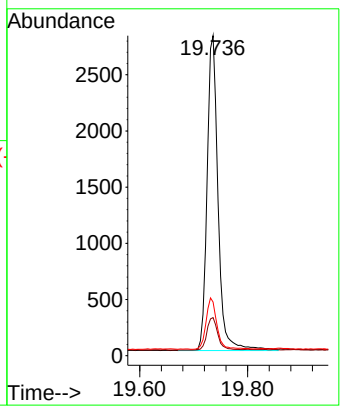


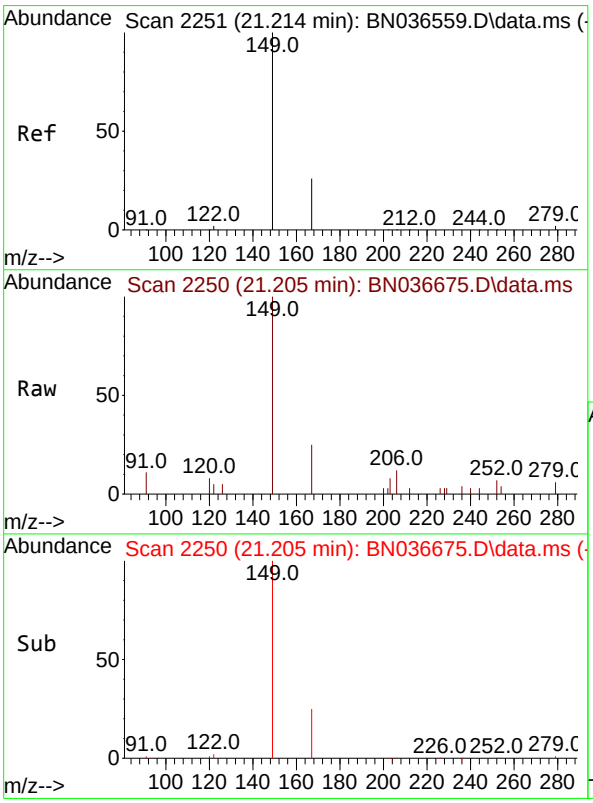
#31
Terphenyl-d14
Concen: 0.495 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Tgt Ion:244 Resp: 3951

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	16.8	13.9	20.9

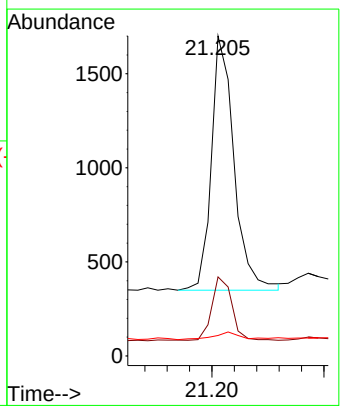


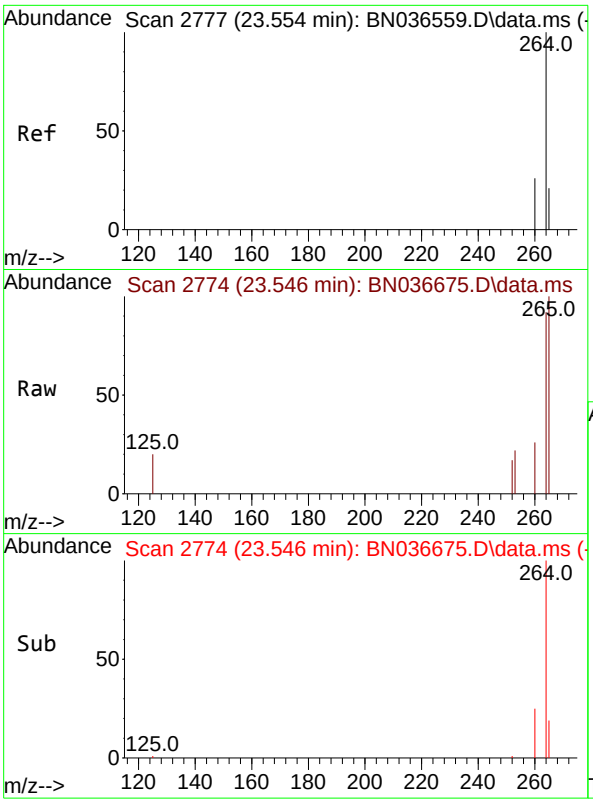


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.230 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Tgt Ion:149 Resp: 1901

Ion	Ratio	Lower	Upper
149	100		
167	21.9	20.7	31.1
279	3.6	3.6	5.4#



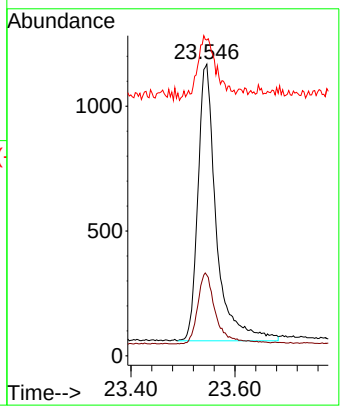


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036675.D
Acq: 18 Mar 2025 01:15

Instrument :
BNA_N
ClientSampleId :
BPOW1-8-20250314

Tgt Ion:264 Resp: 2721

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.6	33.8
265	108.3	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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT191D1-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-13	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
BN036676.D	1	03/17/25 08:48	03/18/25 01:51	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.60		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		63%	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	0.29		53 - 106		74%	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	1730	7.717				
1146-65-2	Naphthalene-d8	4300	10.498				
15067-26-2	Acenaphthene-d10	2550	14.355				
1517-22-2	Phenanthrene-d10	5080	17.099				
1719-03-5	Chrysene-d12	3520	21.295				
1520-96-3	Perylene-d12	2790	23.546				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036676.D
Acq On : 18 Mar 2025 01:51
Operator : RC/JU
Sample : Q1582-13
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Quant Time: Mar 18 02:39:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

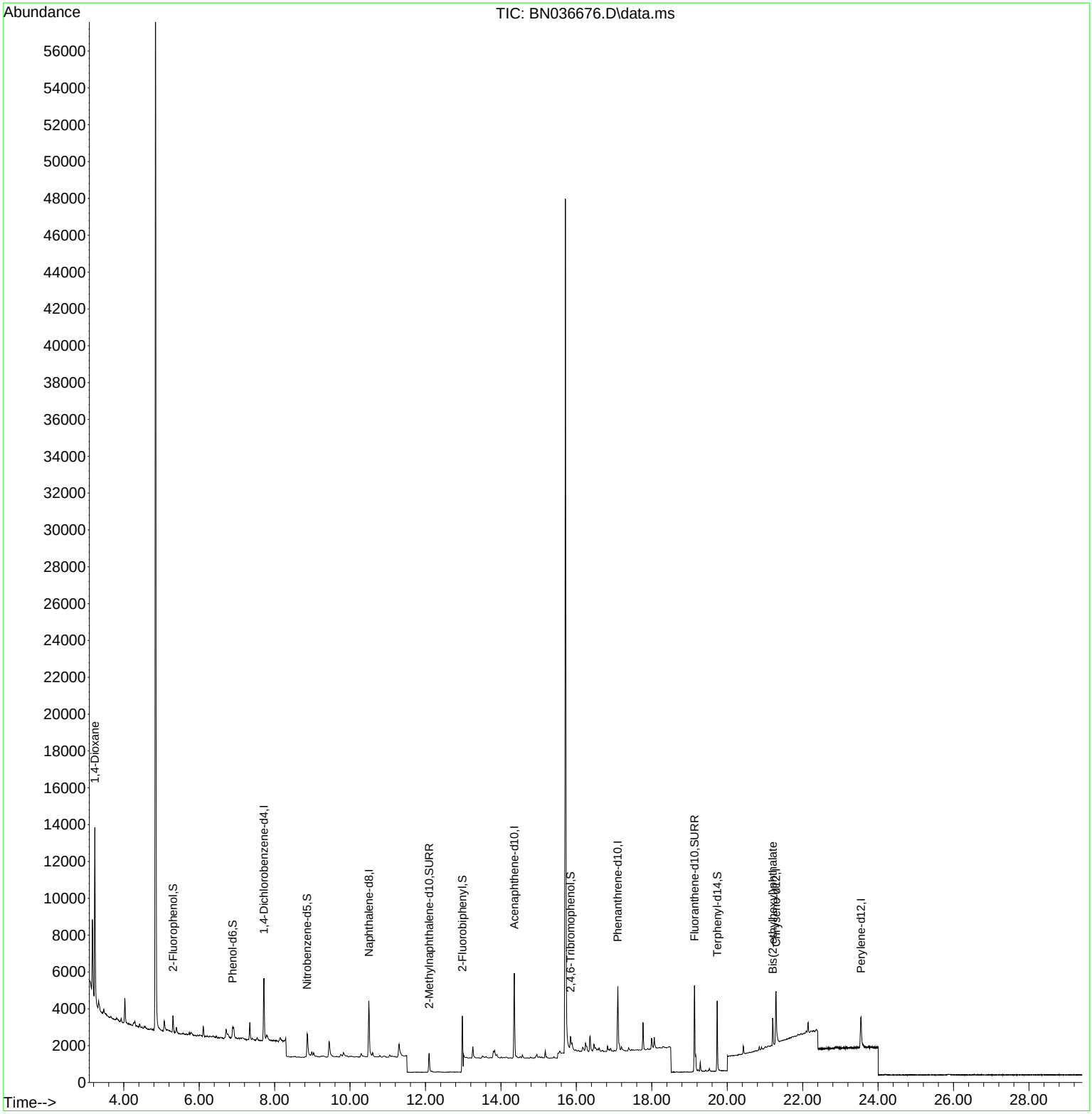
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1725	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4299	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2552	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5075	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3524	0.400	ng	0.00
35) Perylene-d12	23.546	264	2792	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	673	0.167	ng	0.00
5) Phenol-d6	6.887	99	500	0.101	ng	-0.01
8) Nitrobenzene-d5	8.865	82	1390	0.297	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	1627	0.254	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	428	0.370	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4363	0.294	ng	-0.01
27) Fluoranthene-d10	19.132	212	5552	0.427	ng	0.00
31) Terphenyl-d14	19.736	244	3882	0.460	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.232	88	4735	2.474	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.205	149	1539	0.176	ng	# 96

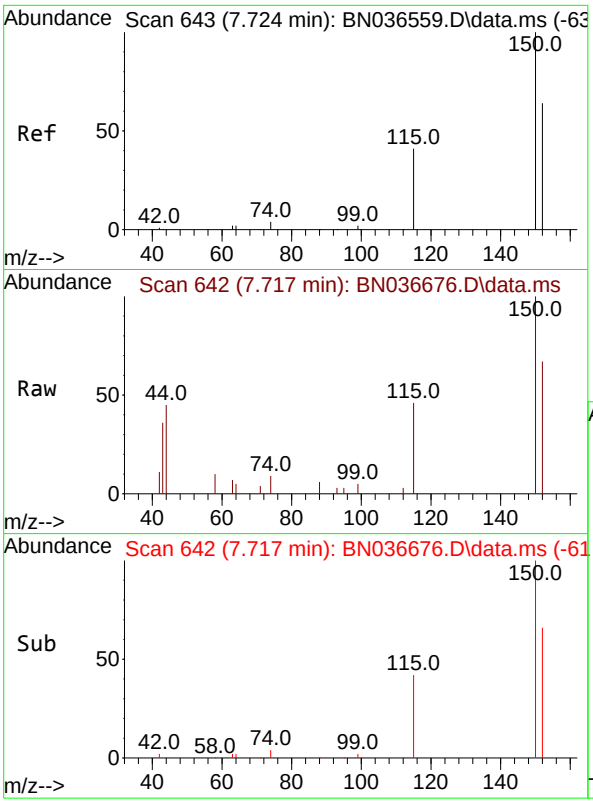
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036676.D
Acq On : 18 Mar 2025 01:51
Operator : RC/JU
Sample : Q1582-13
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Quant Time: Mar 18 02:39:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



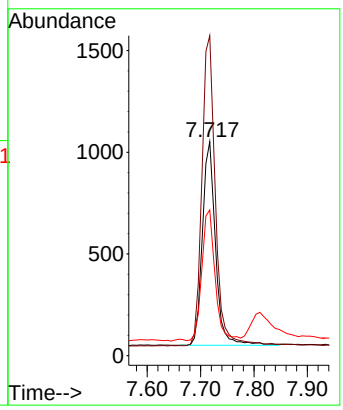


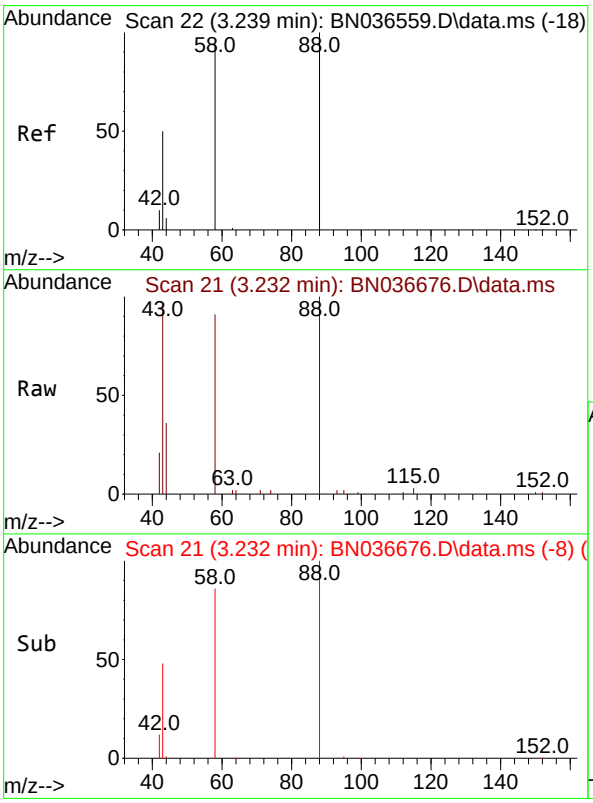
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:152 Resp: 1725

Ion	Ratio	Lower	Upper
152	100		
150	149.5	123.7	185.5
115	68.2	54.3	81.5

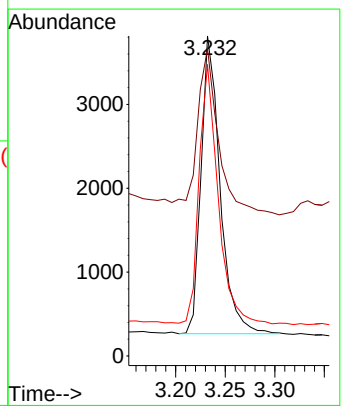


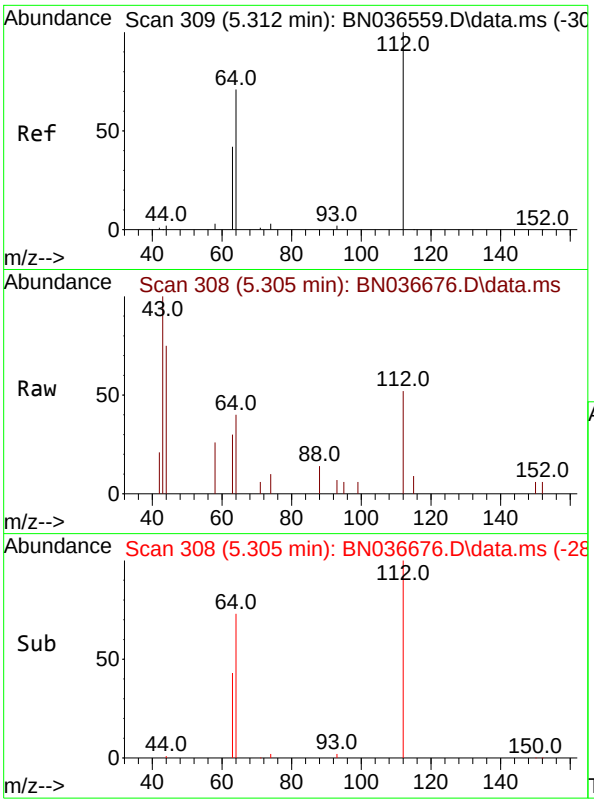


#2
1,4-Dioxane
Concen: 2.474 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion: 88 Resp: 4735

Ion	Ratio	Lower	Upper
88	100		
43	63.3	37.8	56.8#
58	86.7	67.4	101.2



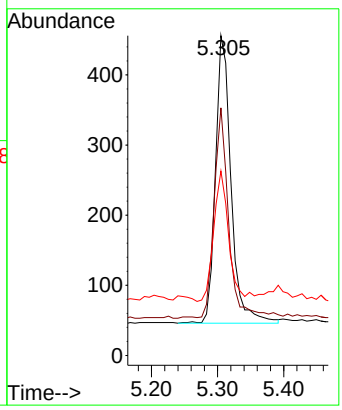


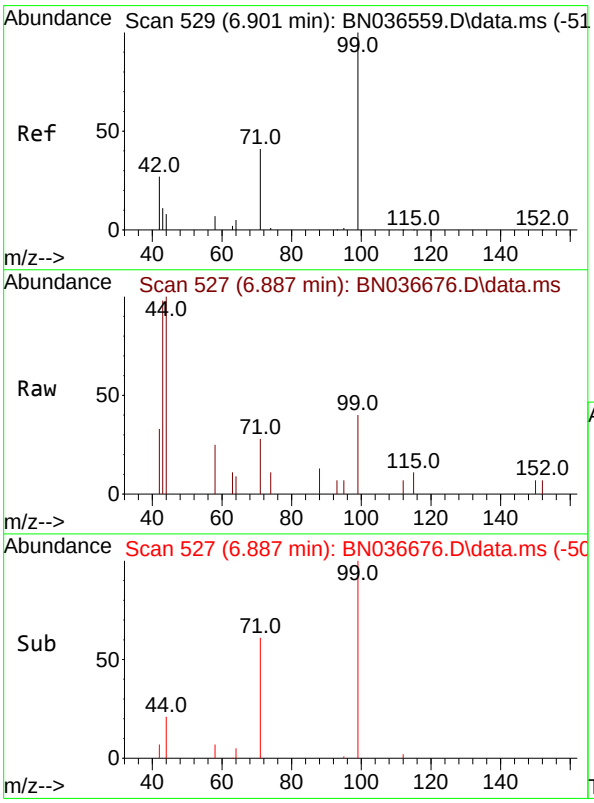
#4
2-Fluorophenol
Concen: 0.167 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:112 Resp: 673

Ion	Ratio	Lower	Upper
112	100		
64	67.6	53.1	79.7
63	44.1	31.8	47.8

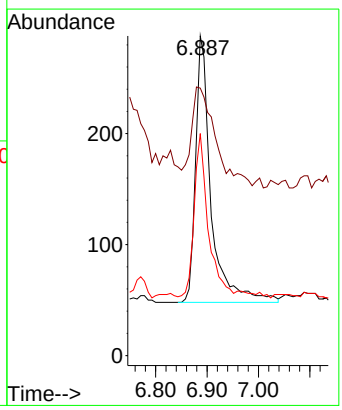


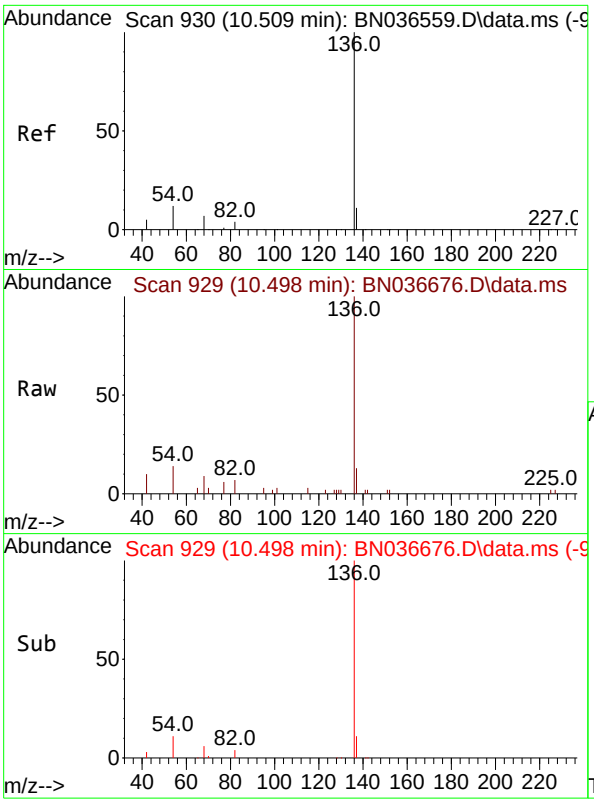


#5
Phenol-d6
Concen: 0.101 ng
RT: 6.887 min Scan# 527
Delta R.T. -0.014 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion: 99 Resp: 500

Ion	Ratio	Lower	Upper
99	100		
42	57.2	26.5	39.7#
71	55.0	34.1	51.1#



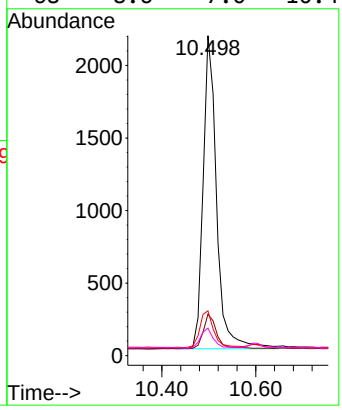


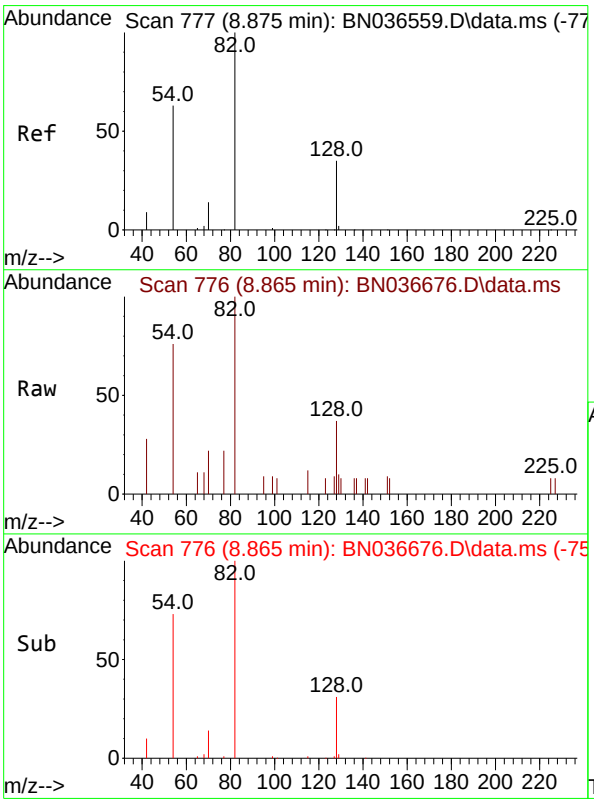
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:136 Resp: 4299

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	14.0	11.5	17.3
68	8.6	7.0	10.4

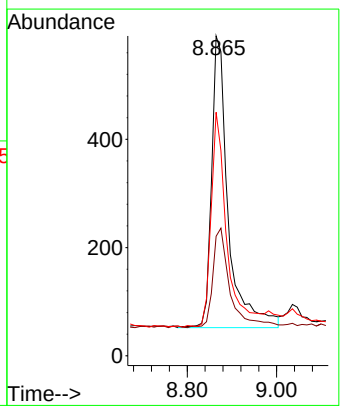


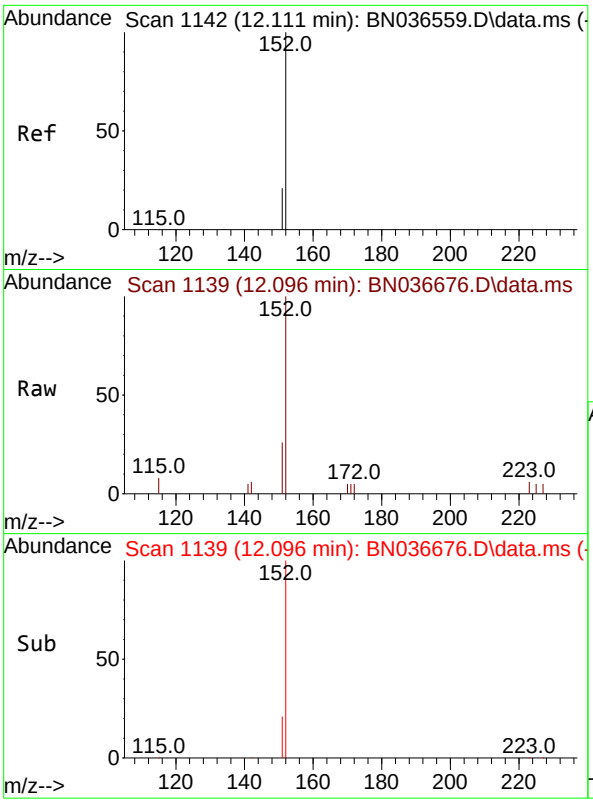


#8
Nitrobenzene-d5
Concen: 0.297 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion: 82 Resp: 1390

Ion	Ratio	Lower	Upper
82	100		
128	37.4	30.6	45.8
54	76.1	52.2	78.4



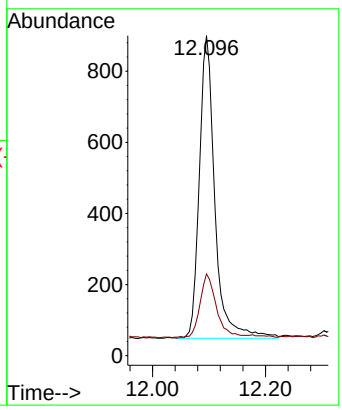


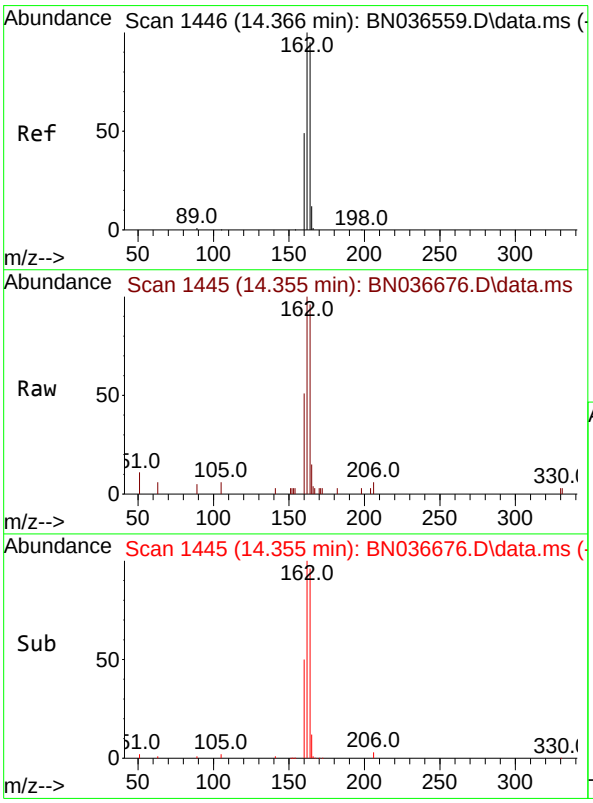
#11
2-Methylnaphthalene-d10
Concen: 0.254 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:152 Resp: 1627

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.0	25.6

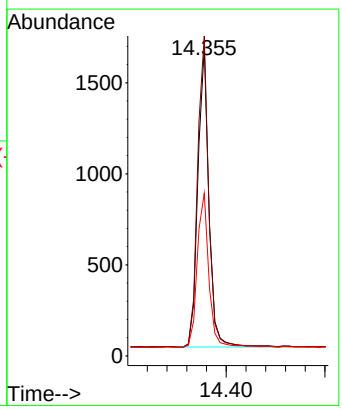


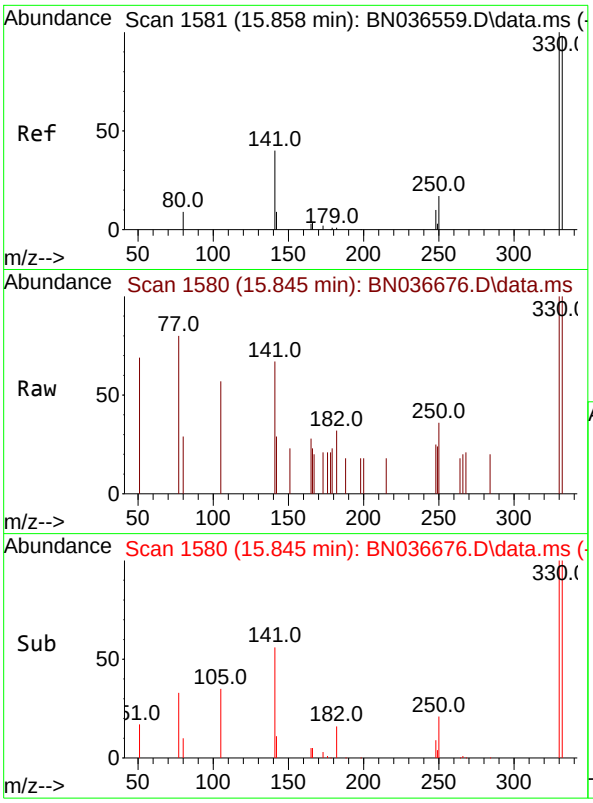


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:164 Resp: 2552

Ion	Ratio	Lower	Upper
164	100		
162	103.7	84.2	126.2
160	52.7	42.2	63.2



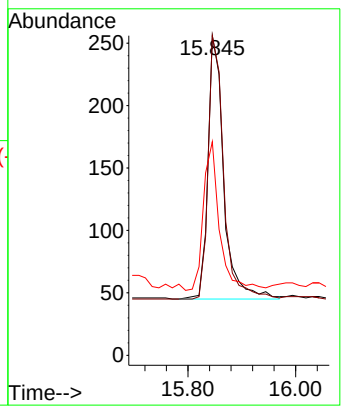


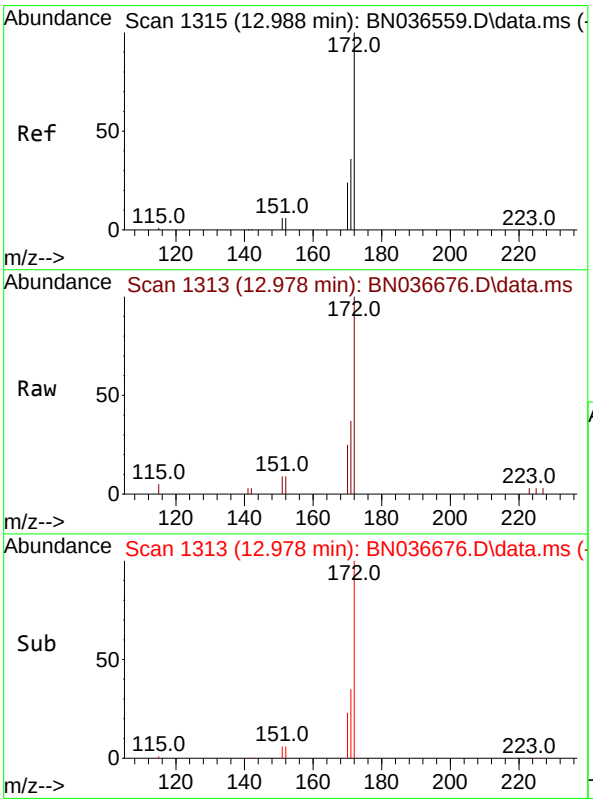
#14
2,4,6-Tribromophenol
Concen: 0.370 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:330 Resp: 428

Ion	Ratio	Lower	Upper
330	100		
332	98.4	75.2	112.8
141	57.7	43.4	65.2

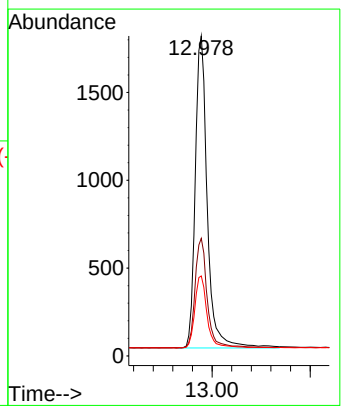


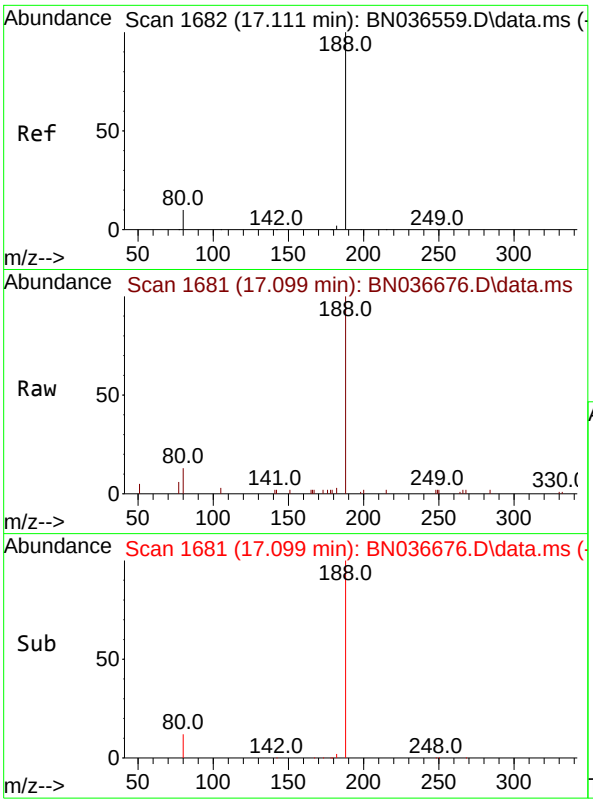


#15
2-Fluorobiphenyl
Concen: 0.294 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:172 Resp: 4363

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.5	44.3
170	25.0	20.2	30.4



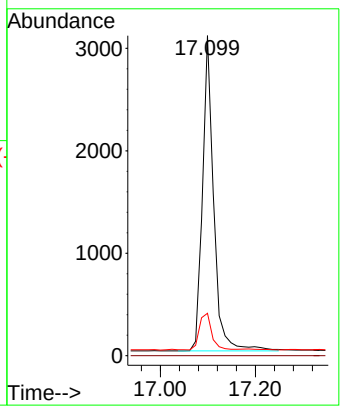


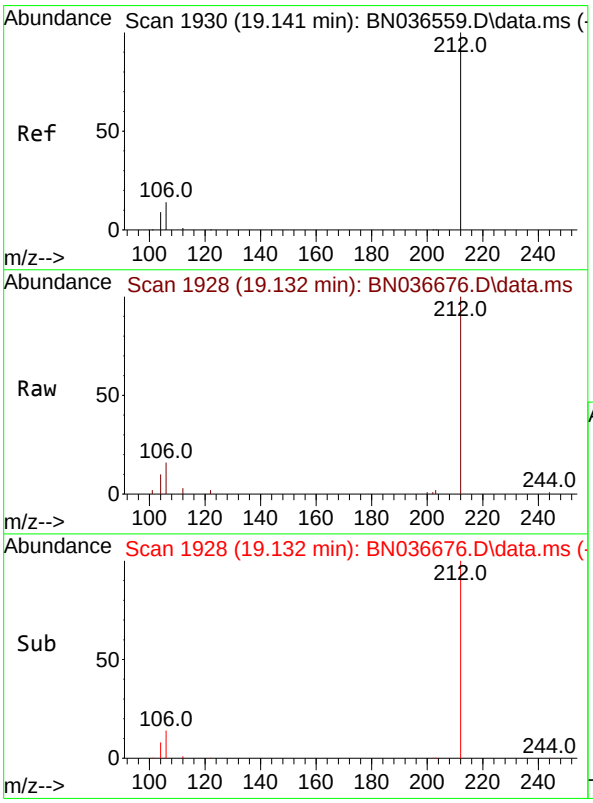
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:188 Resp: 5075

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

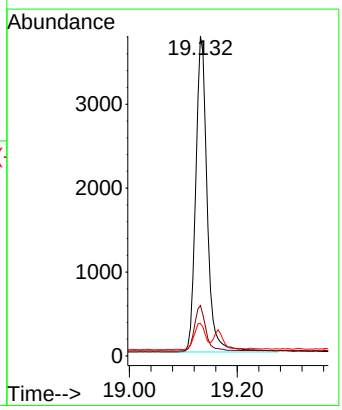


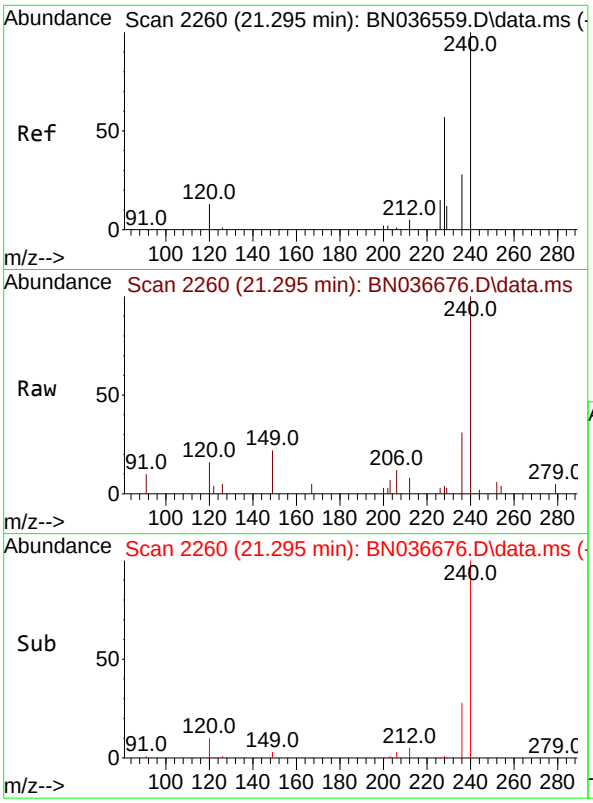


#27
Fluoranthene-d10
Concen: 0.427 ng
RT: 19.132 min Scan# 1928
Delta R.T. -0.009 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:212 Resp: 5552

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	8.3	7.3	10.9



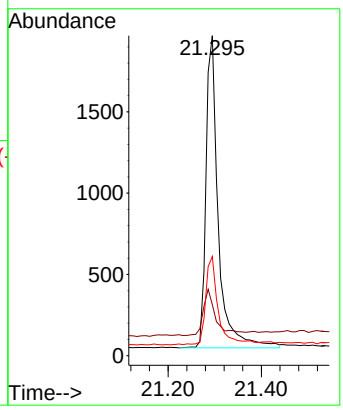


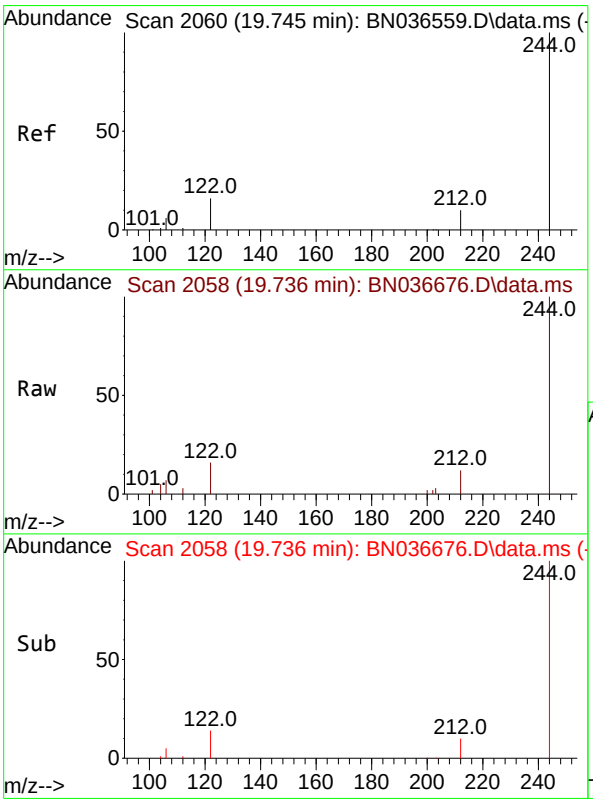
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:240 Resp: 3524

Ion	Ratio	Lower	Upper
240	100		
120	15.9	14.6	22.0
236	31.0	24.1	36.1

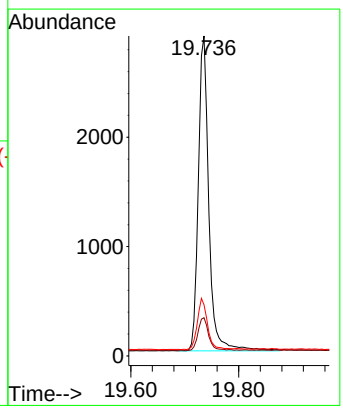


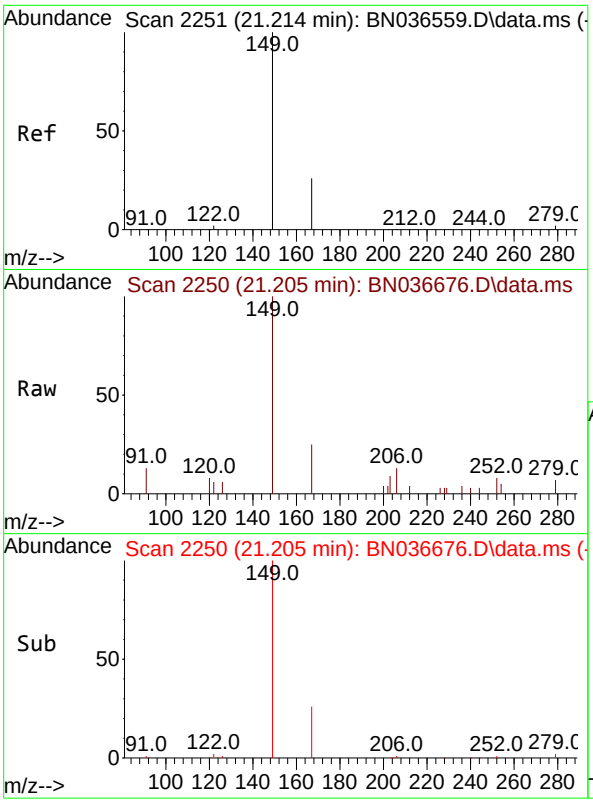


#31
Terphenyl-d14
Concen: 0.460 ng
RT: 19.736 min Scan# 2058
Delta R.T. -0.009 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:244 Resp: 3882

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.6	14.4
122	16.0	13.9	20.9



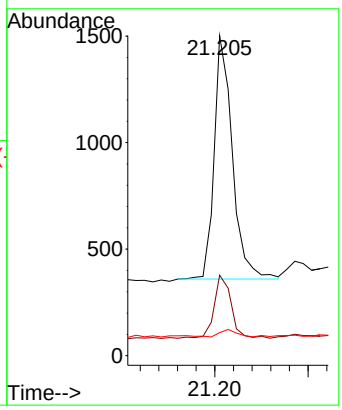


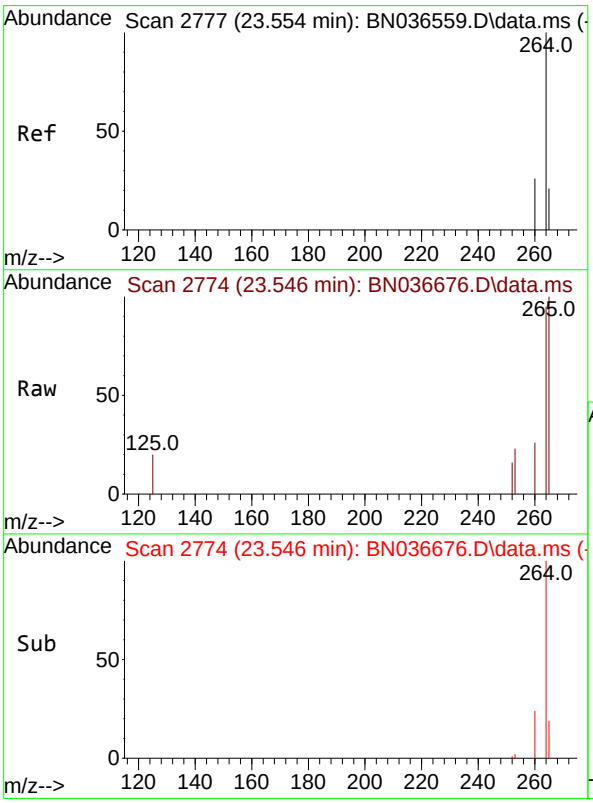
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.176 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Instrument :
BNA_N
ClientSampleId :
TT191D1-20250314

Tgt Ion:149 Resp: 1539

Ion	Ratio	Lower	Upper
149	100		
167	24.2	20.7	31.1
279	2.7	3.6	5.4#

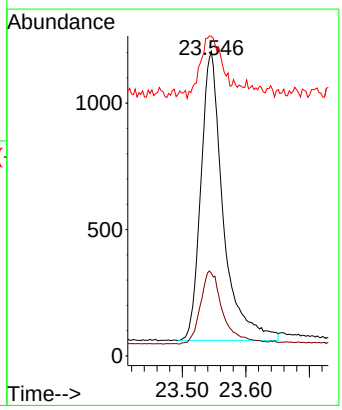




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2774
Delta R.T. -0.009 min
Lab File: BN036676.D
Acq: 18 Mar 2025 01:51

Tgt Ion:264 Resp: 2792

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.6	33.8
265	105.1	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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT191D2-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-14	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
BN036677.D	1	03/17/25 08:48	03/18/25 02:28	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.57		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.24		30 - 150		60%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	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	1800	7.717				
1146-65-2	Naphthalene-d8	4500	10.498				
15067-26-2	Acenaphthene-d10	2730	14.355				
1517-22-2	Phenanthrene-d10	5580	17.099				
1719-03-5	Chrysene-d12	3990	21.294				
1520-96-3	Perylene-d12	3140	23.539				

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\BN031725\
Data File : BN036677.D
Acq On : 18 Mar 2025 02:28
Operator : RC/JU
Sample : Q1582-14
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Quant Time: Mar 18 02:59:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

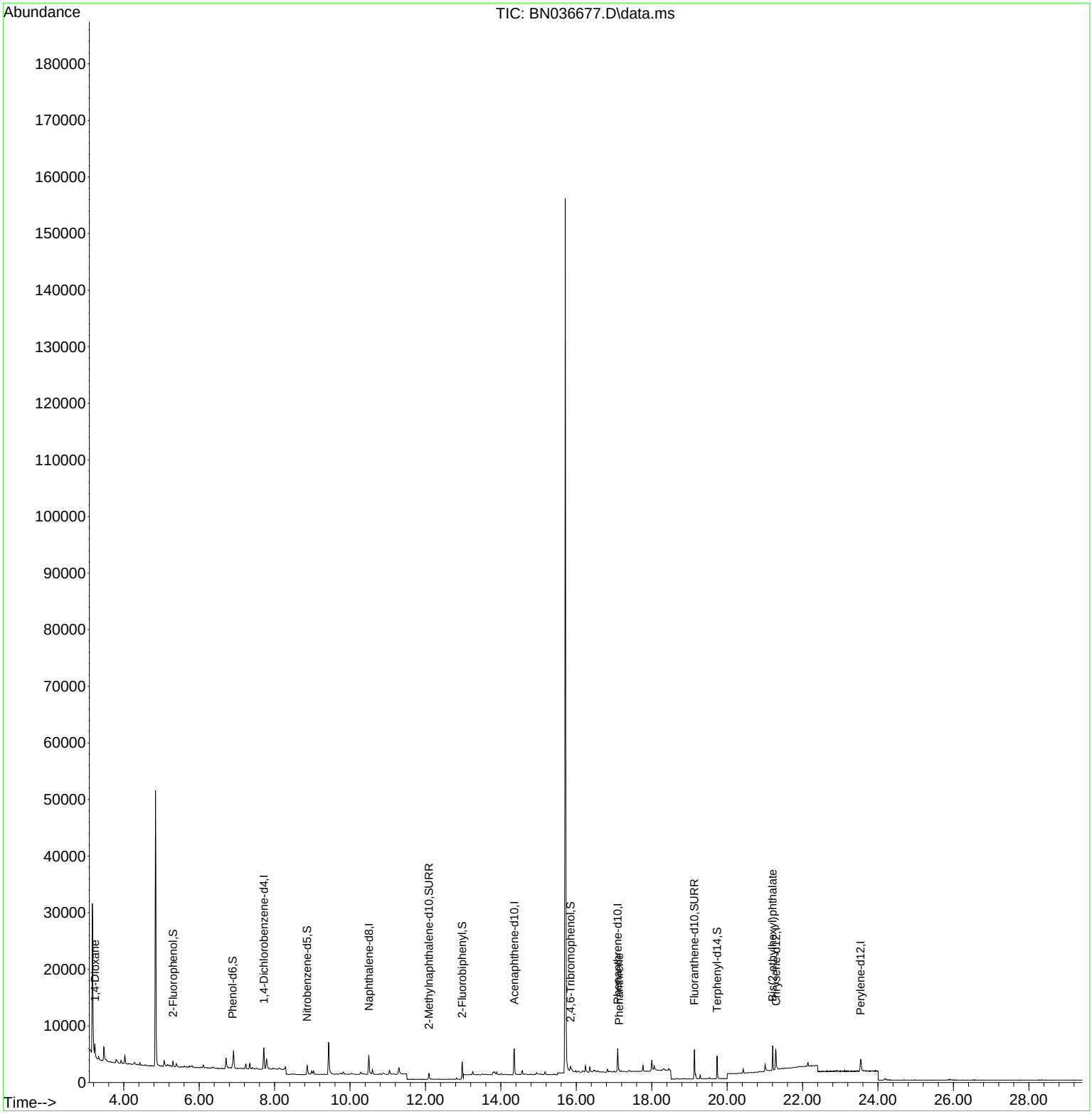
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1797	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4496	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2727	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5582	0.400	ng	-0.01
29) Chrysene-d12	21.294	240	3987	0.400	ng	0.00
35) Perylene-d12	23.539	264	3141	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	694	0.166	ng	0.00
5) Phenol-d6	6.886	99	568	0.110	ng	-0.01
8) Nitrobenzene-d5	8.864	82	1416	0.290	ng	-0.01
11) 2-Methylnaphthalene-d10	12.090	152	1589	0.238	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	442	0.357	ng	-0.01
15) 2-Fluorobiphenyl	12.973	172	4250	0.268	ng	-0.02
27) Fluoranthene-d10	19.131	212	5699	0.398	ng	0.00
31) Terphenyl-d14	19.735	244	3921	0.410	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	1138	0.571	ng	# 67
25) Phenanthrene	17.136	178	433	0.026	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.205	149	4149	0.420	ng	# 98

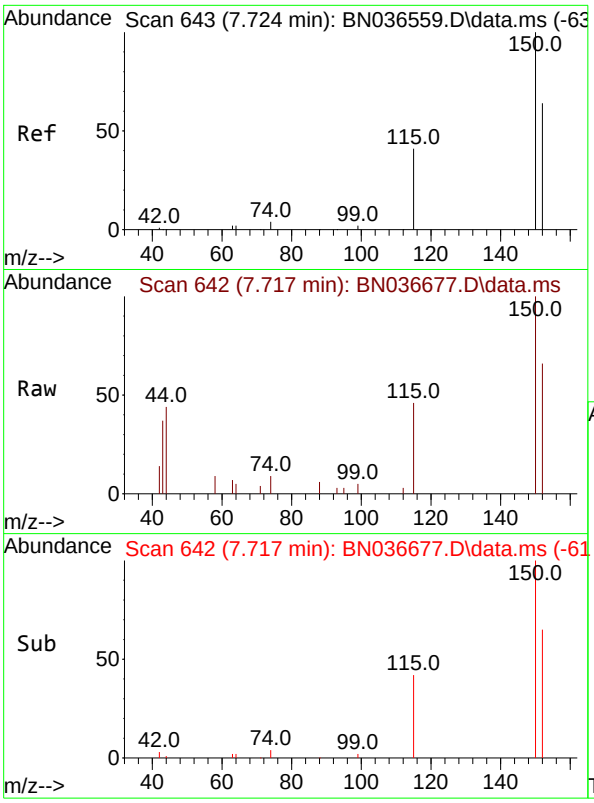
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036677.D
Acq On : 18 Mar 2025 02:28
Operator : RC/JU
Sample : Q1582-14
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Quant Time: Mar 18 02:59:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



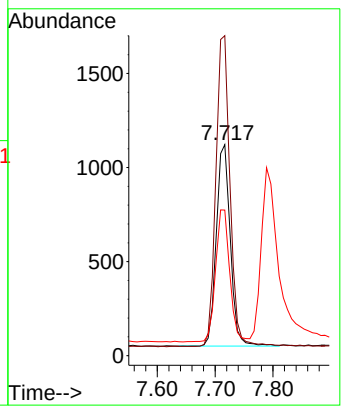


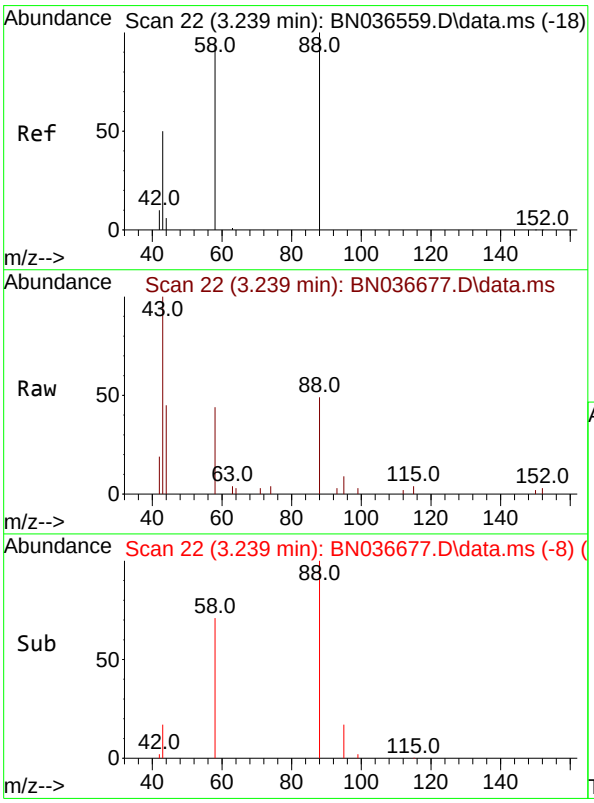
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:152 Resp: 1797

Ion	Ratio	Lower	Upper
152	100		
150	151.6	123.7	185.5
115	69.0	54.3	81.5

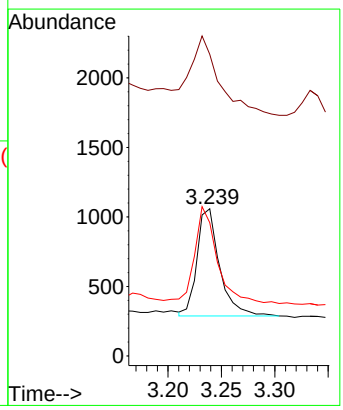


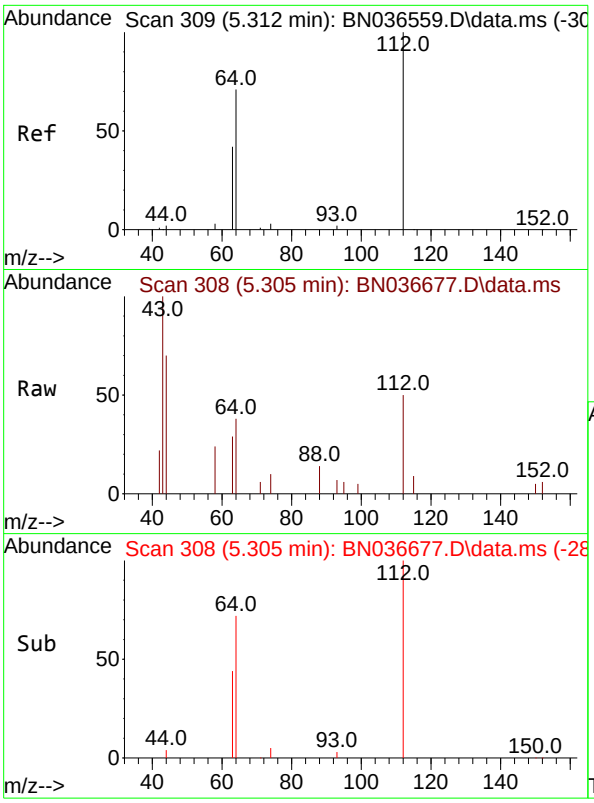


#2
1,4-Dioxane
Concen: 0.571 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion: 88 Resp: 1138

Ion	Ratio	Lower	Upper
88	100		
43	100.7	37.8	56.8#
58	91.0	67.4	101.2



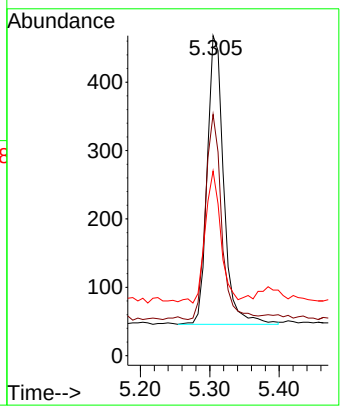


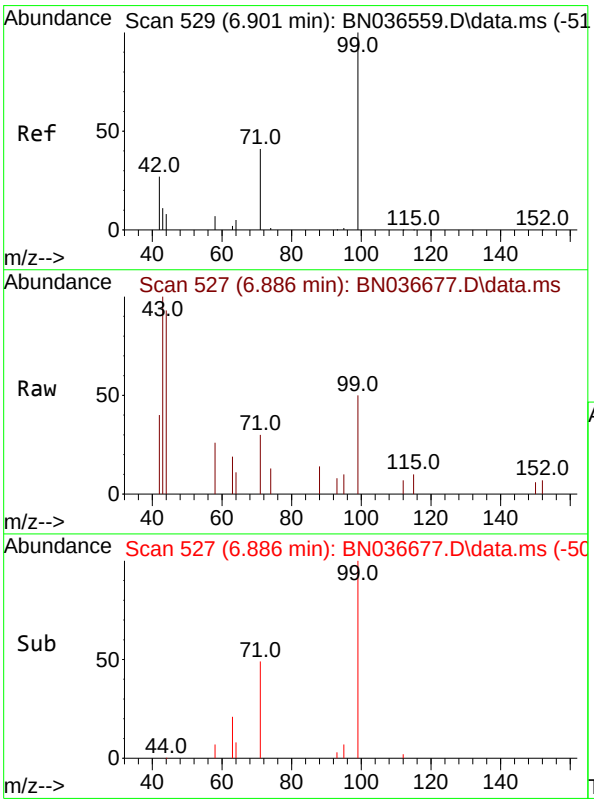
#4
2-Fluorophenol
Concen: 0.166 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:112 Resp: 694

Ion	Ratio	Lower	Upper
112	100		
64	69.5	53.1	79.7
63	42.5	31.8	47.8

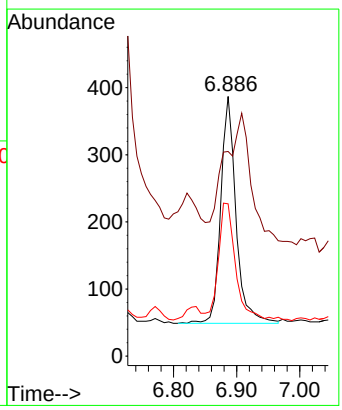


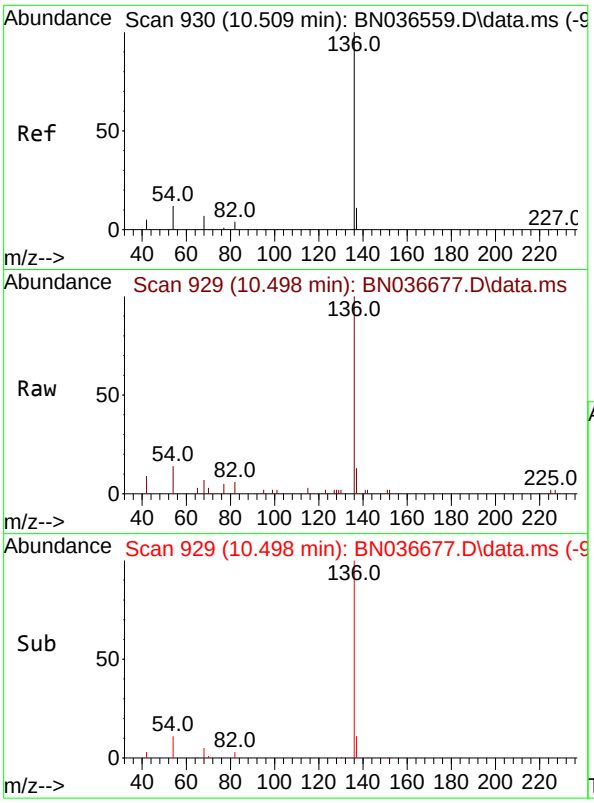


#5
Phenol-d6
Concen: 0.110 ng
RT: 6.886 min Scan# 527
Delta R.T. -0.015 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion: 99 Resp: 568

Ion	Ratio	Lower	Upper
99	100		
42	0.0	26.5	39.7#
71	59.2	34.1	51.1#



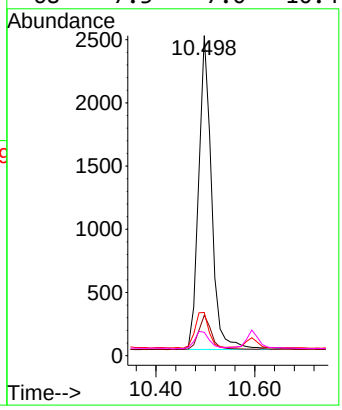


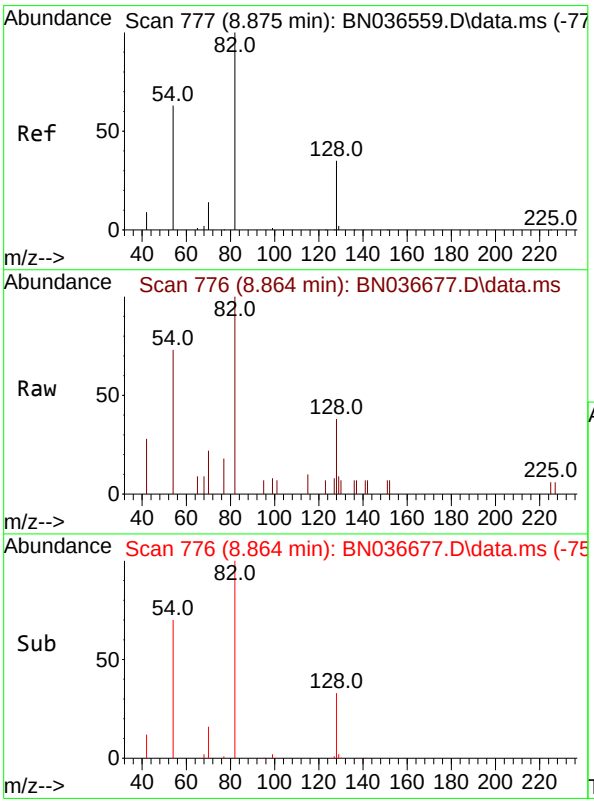
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:136 Resp: 4496

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	13.5	11.5	17.3
68	7.3	7.0	10.4

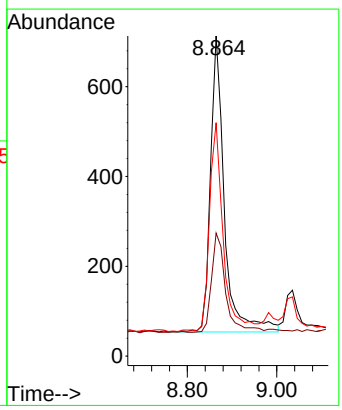


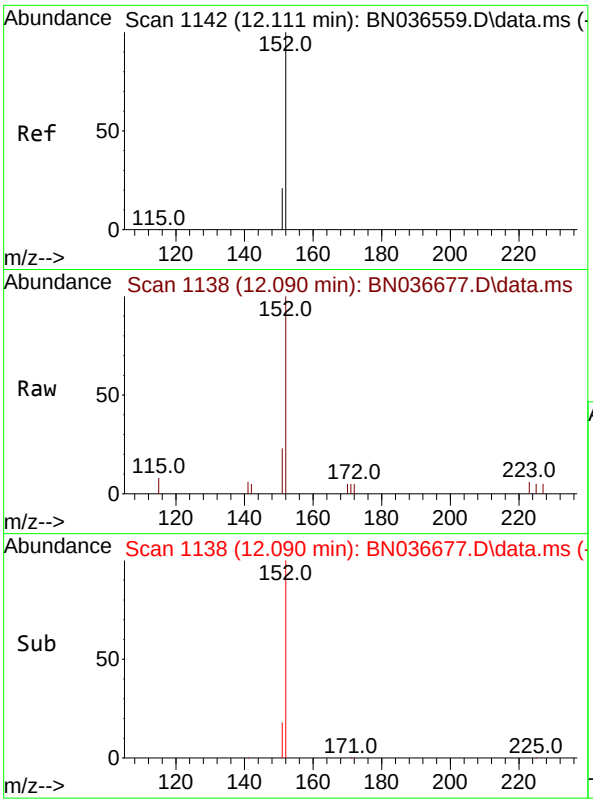


#8
Nitrobenzene-d5
Concen: 0.290 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion: 82 Resp: 1416

Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.6	45.8
54	72.9	52.2	78.4



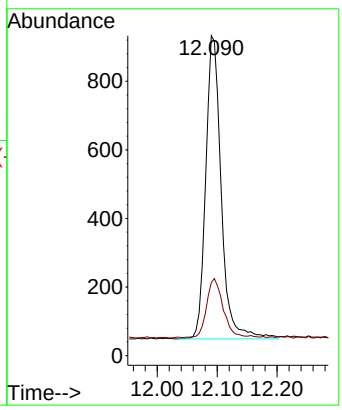


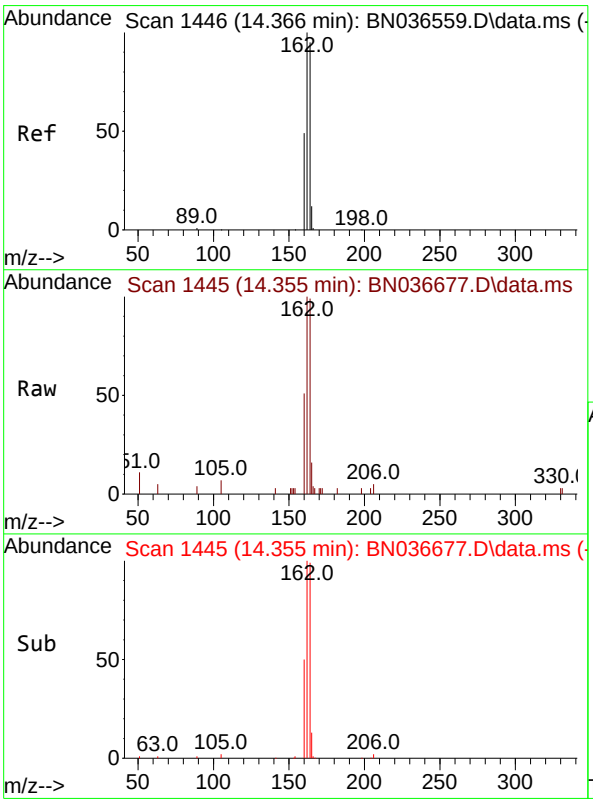
#11
2-Methylnaphthalene-d10
Concen: 0.238 ng
RT: 12.090 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:152 Resp: 1589

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

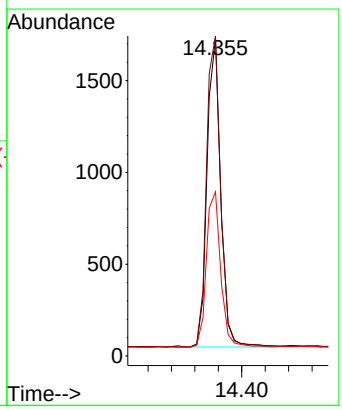


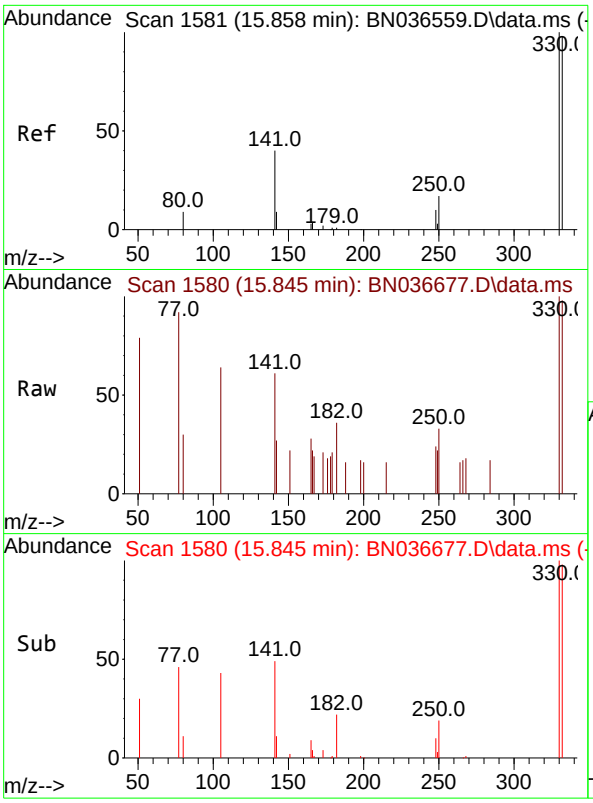


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion:164 Resp: 2727

Ion	Ratio	Lower	Upper
164	100		
162	100.7	84.2	126.2
160	51.6	42.2	63.2



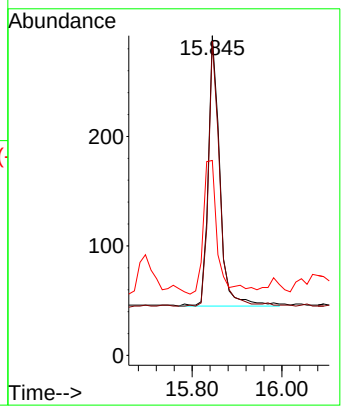


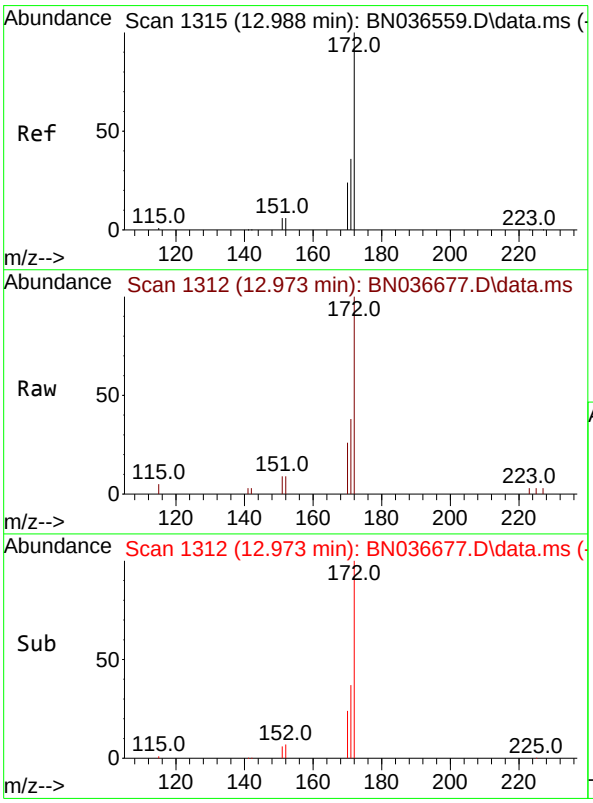
#14
2,4,6-Tribromophenol
Concen: 0.357 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:330 Resp: 442

Ion	Ratio	Lower	Upper
330	100		
332	93.4	75.2	112.8
141	61.1	43.4	65.2

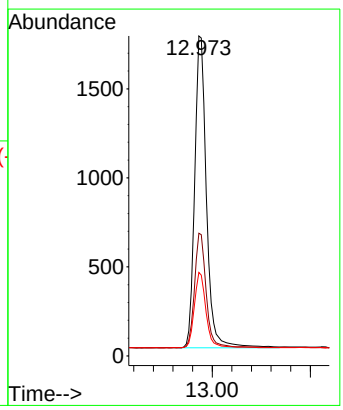


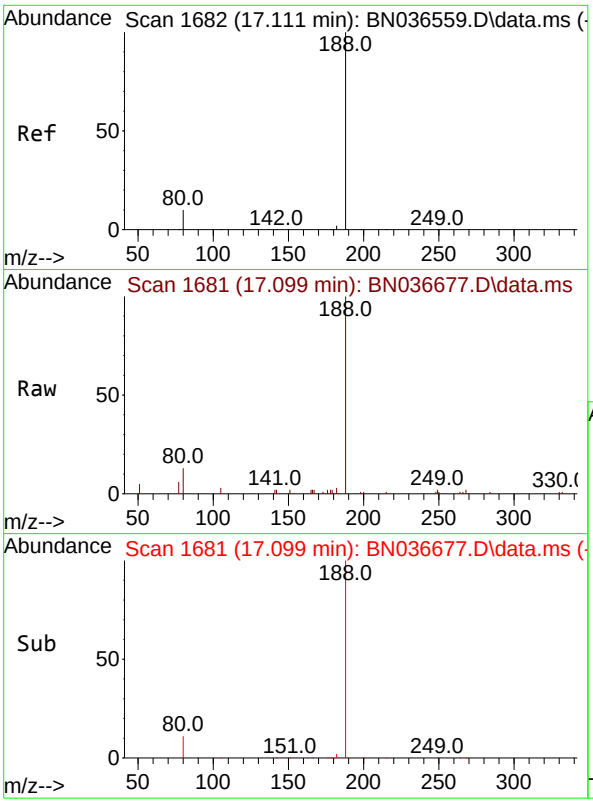


#15
2-Fluorobiphenyl
Concen: 0.268 ng
RT: 12.973 min Scan# 1312
Delta R.T. -0.015 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion:172 Resp: 4250

Ion	Ratio	Lower	Upper
172	100		
171	38.3	29.5	44.3
170	26.1	20.2	30.4



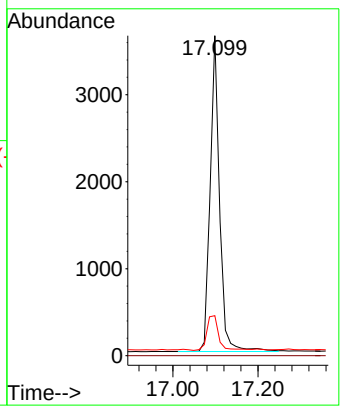


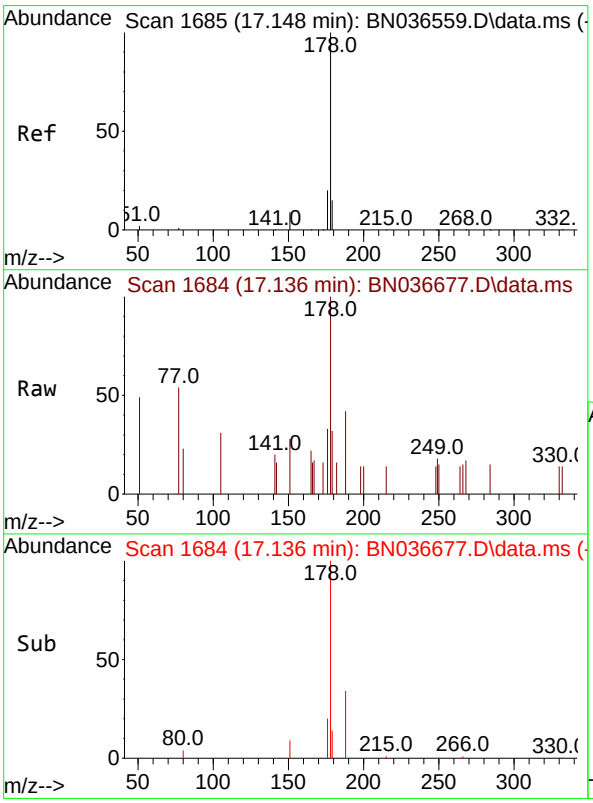
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:188 Resp: 5582

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.5	8.8	13.2

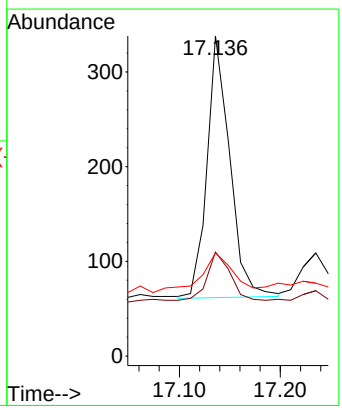


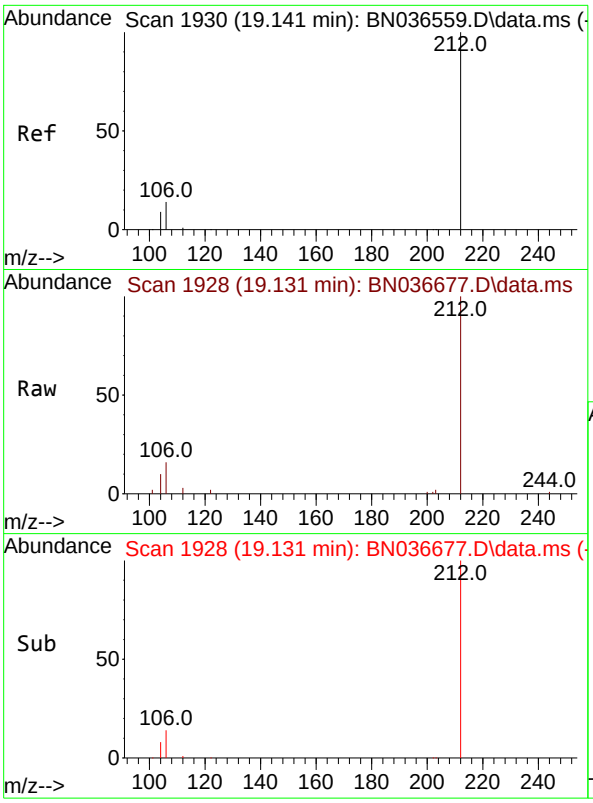


#25
Phenanthrene
Concen: 0.026 ng
RT: 17.136 min Scan# 1684
Delta R.T. -0.013 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion:178 Resp: 433

Ion	Ratio	Lower	Upper
178	100		
176	21.7	15.9	23.9
179	21.5	12.2	18.4#



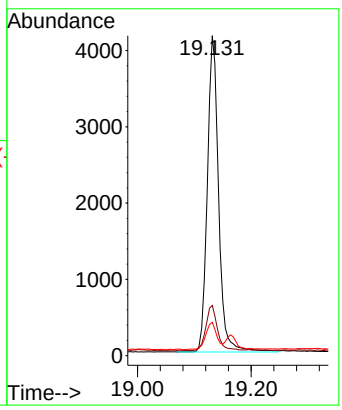


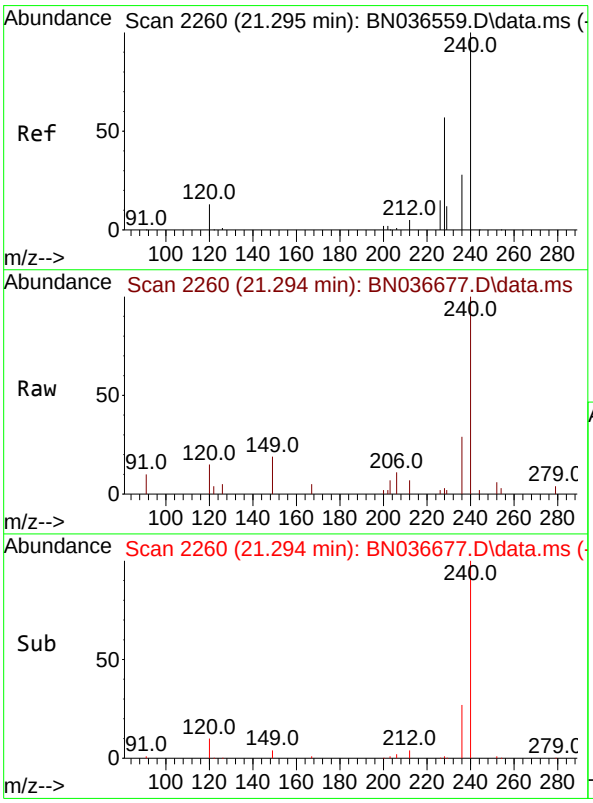
#27
Fluoranthene-d10
Concen: 0.398 ng
RT: 19.131 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:212 Resp: 5699

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

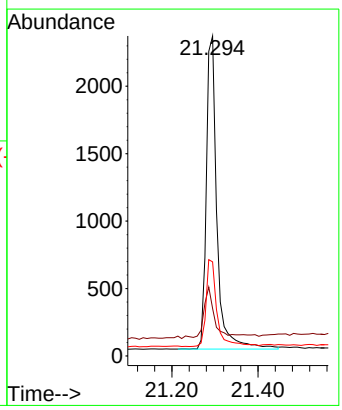


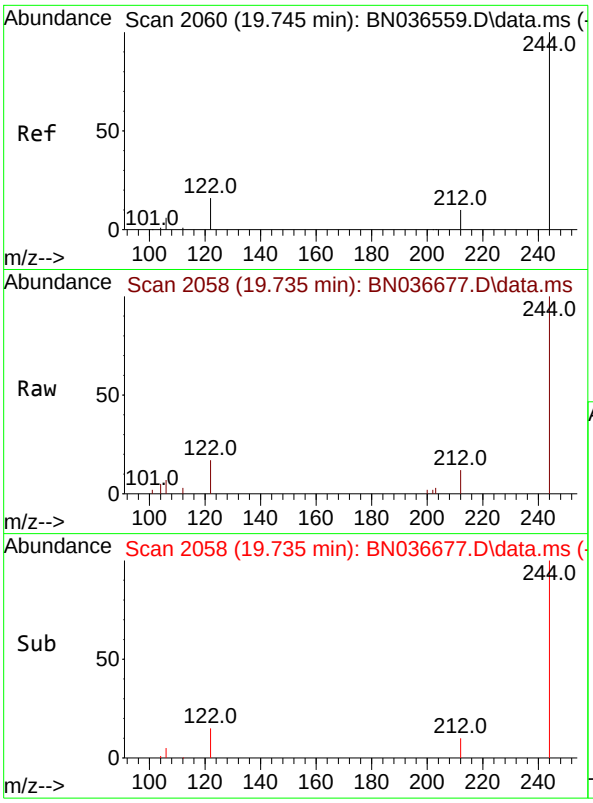


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.294 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion:240 Resp: 3987

Ion	Ratio	Lower	Upper
240	100		
120	14.9	14.6	22.0
236	29.4	24.1	36.1



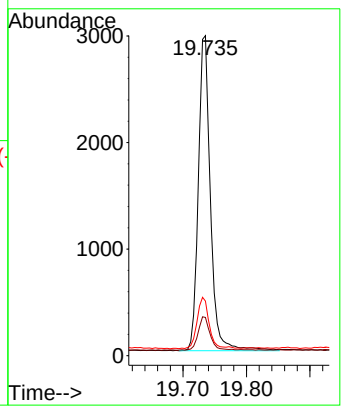


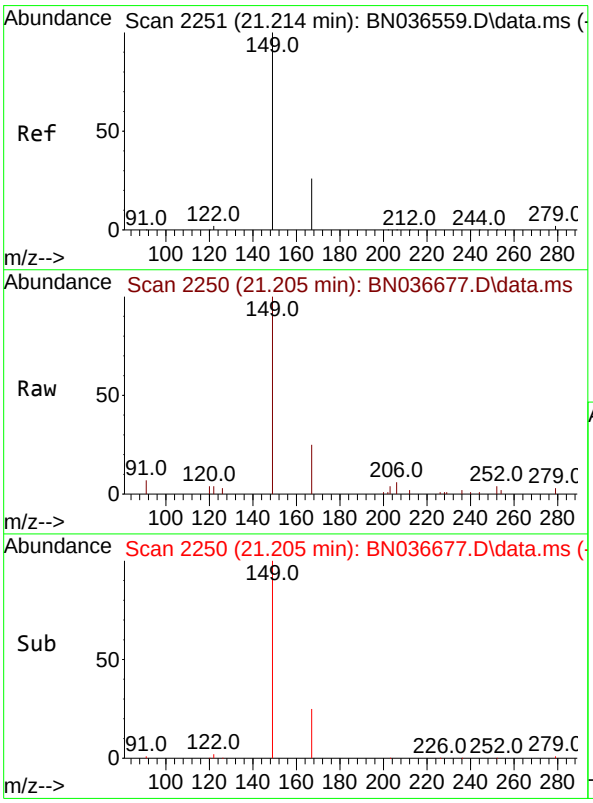
#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.735 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:244 Resp: 3921

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	17.0	13.9	20.9

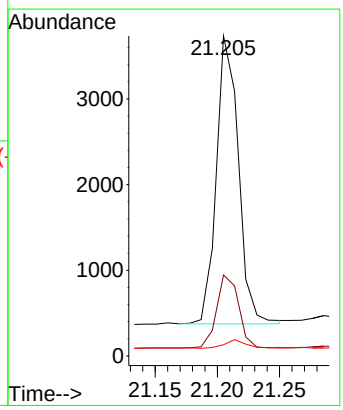


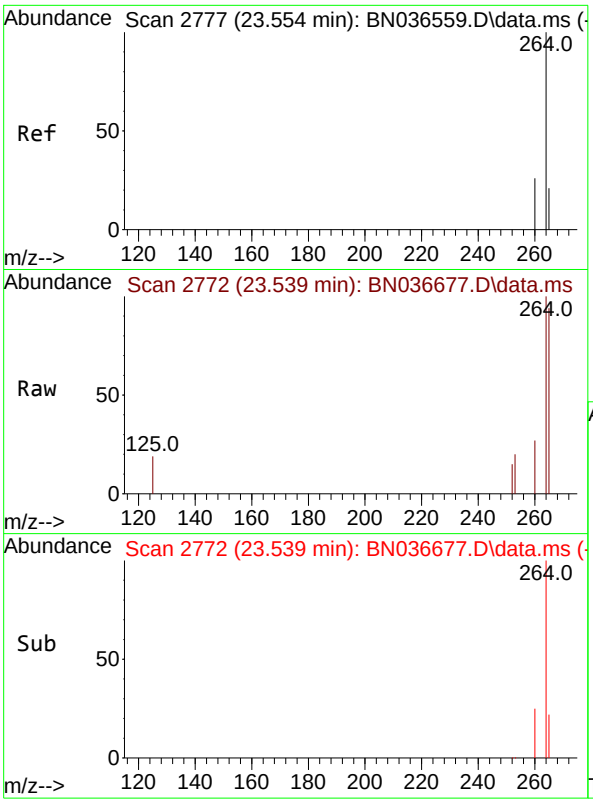


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Tgt Ion:149 Resp: 4149

Ion	Ratio	Lower	Upper
149	100		
167	25.3	20.7	31.1
279	2.9	3.6	5.4#



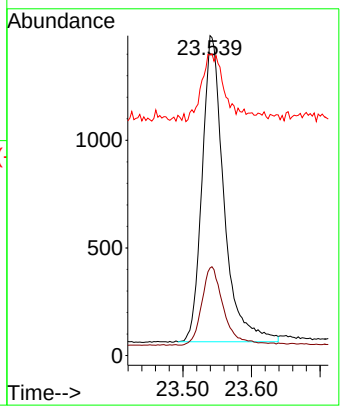


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.539 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN036677.D
Acq: 18 Mar 2025 02:28

Instrument :
BNA_N
ClientSampleId :
TT191D2-20250314

Tgt Ion:264 Resp: 3141

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	93.9	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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	DUP06-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-15	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
BN036678.D	1	03/17/25 08:48	03/18/25 03:04	PB167159

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	0.24		30 - 150		60%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.717				
1146-65-2	Naphthalene-d8	4650	10.509				
15067-26-2	Acenaphthene-d10	2790	14.356				
1517-22-2	Phenanthrene-d10	5580	17.099				
1719-03-5	Chrysene-d12	3550	21.295				
1520-96-3	Perylene-d12	2800	23.546				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036678.D
Acq On : 18 Mar 2025 03:04
Operator : RC/JU
Sample : Q1582-15
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 04:19:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1973	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4653	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2790	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5581	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3549	0.400	ng	0.00
35) Perylene-d12	23.546	264	2795	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	703	0.153	ng	0.00
5) Phenol-d6	6.894	99	472	0.083	ng	0.00
8) Nitrobenzene-d5	8.875	82	1470	0.290	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1673	0.242	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	449	0.355	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4407	0.272	ng	0.00
27) Fluoranthene-d10	19.132	212	5992	0.419	ng	0.00
31) Terphenyl-d14	19.736	244	4135	0.486	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.205	149	1549m	0.176	ng	

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

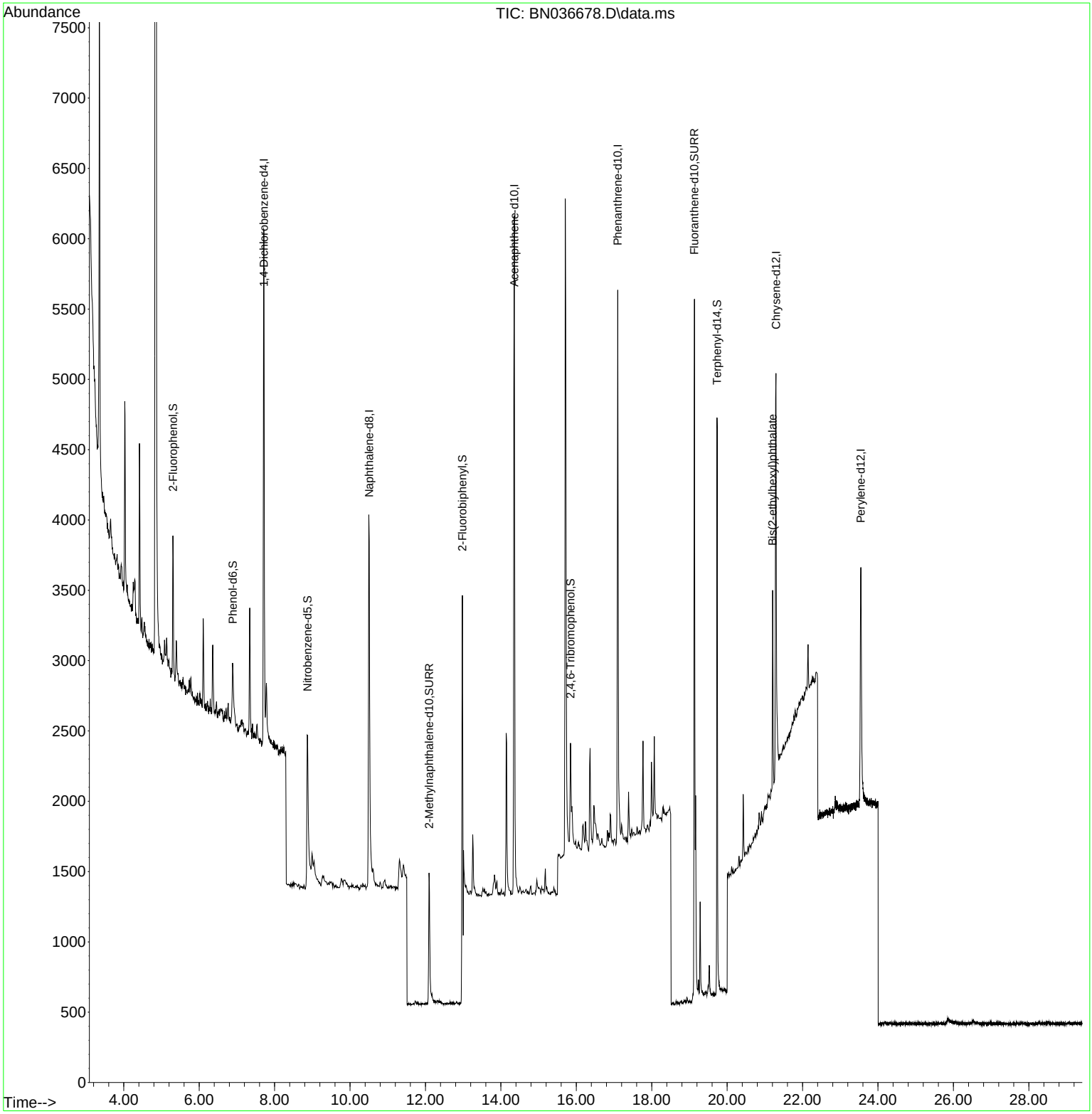
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Data File : BN036678.D
Acq On : 18 Mar 2025 03:04
Operator : RC/JU
Sample : Q1582-15
Misc :
ALS Vial : 28 Sample Multiplier: 1

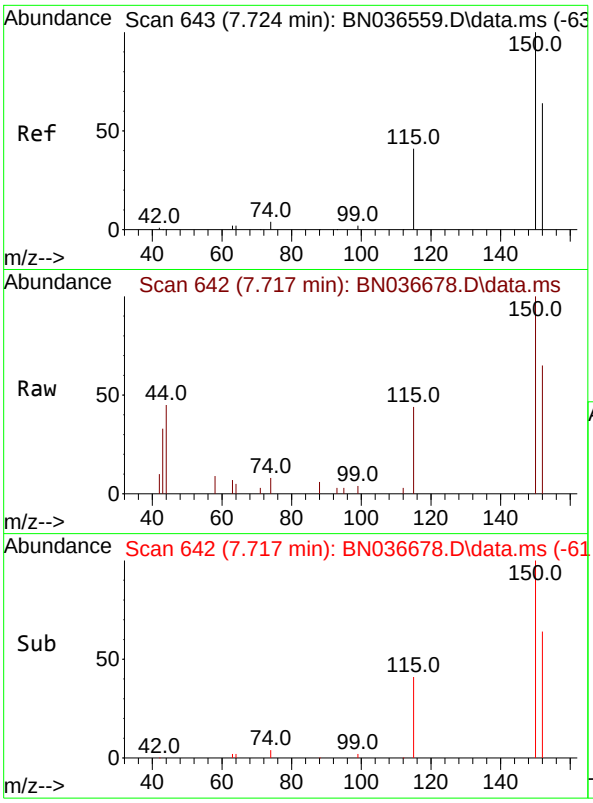
Quant Time: Mar 18 04:19:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

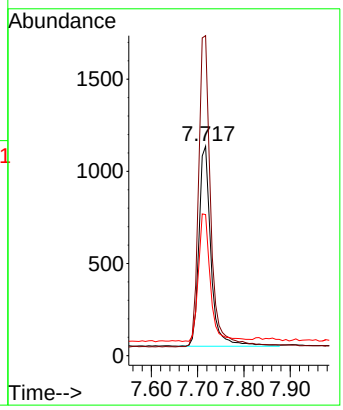




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:152 Resp: 197

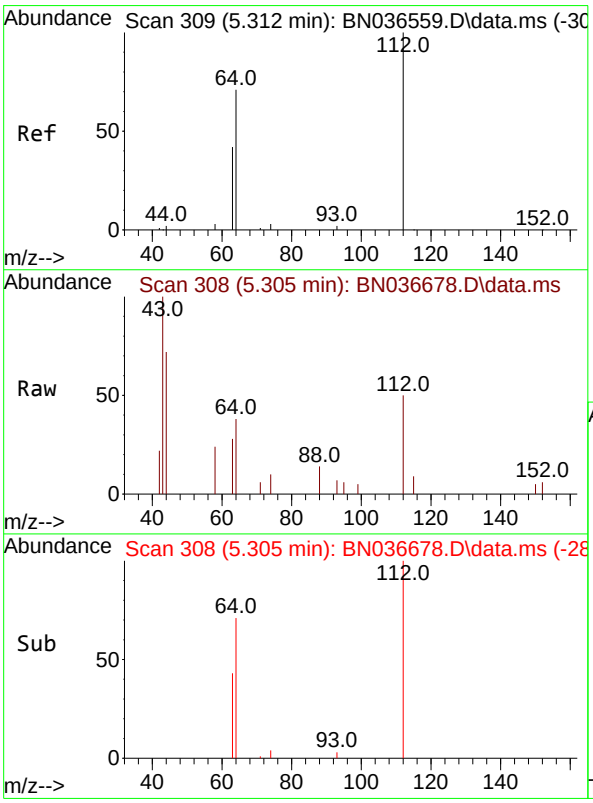
Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.7	185.5
115	67.4	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations
APPROVED

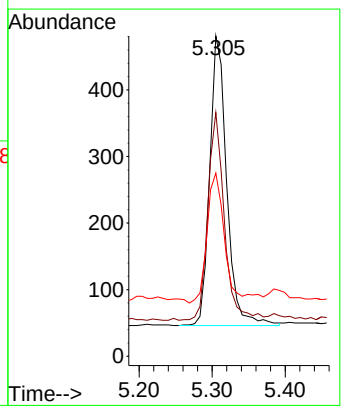
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

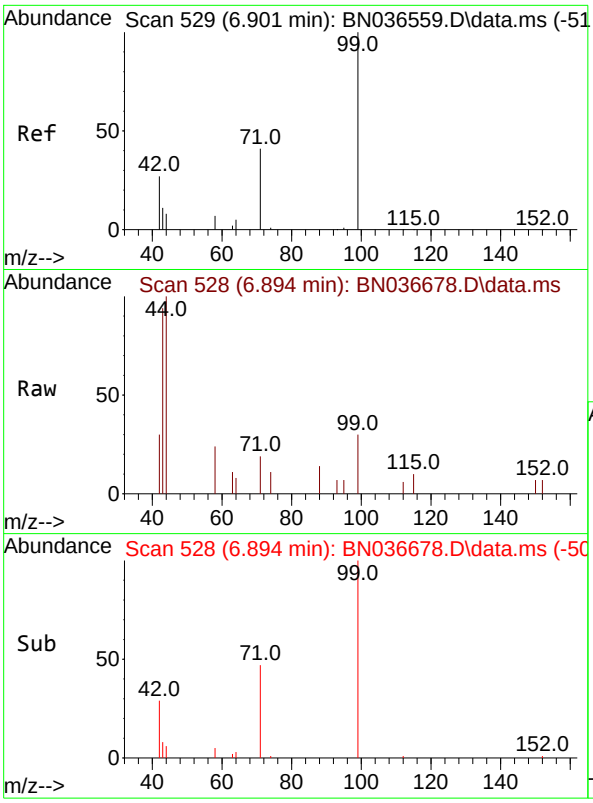


#4
2-Fluorophenol
Concen: 0.153 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:112 Resp: 703

Ion	Ratio	Lower	Upper
112	100		
64	69.3	53.1	79.7
63	44.7	31.8	47.8

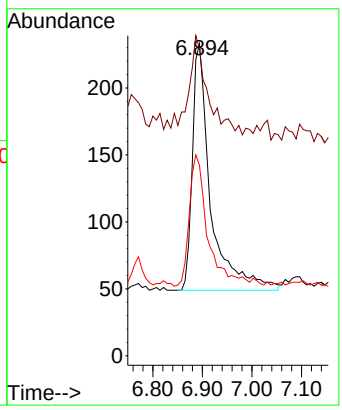




#5
Phenol-d6
Concen: 0.083 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion: 99 Resp: 47

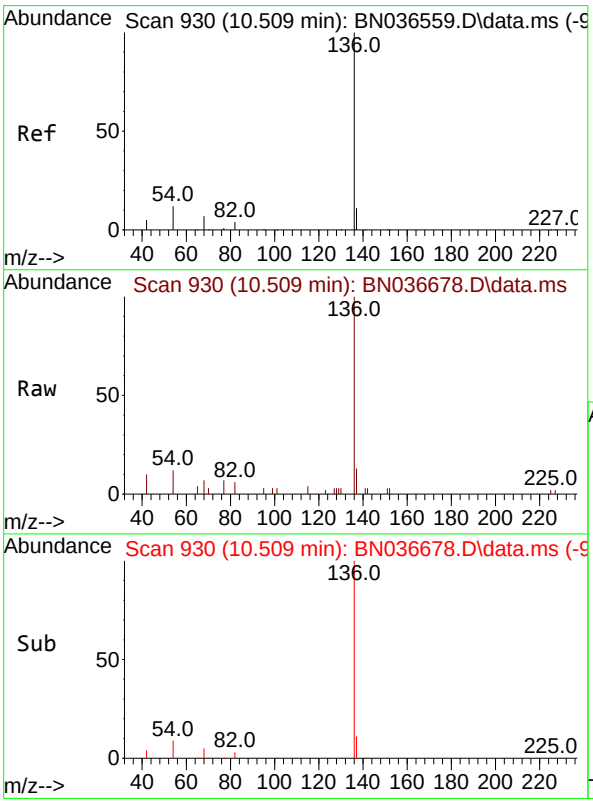
Ion	Ratio	Lower	Upper
99	100		
42	41.9	26.5	39.7#
71	53.6	34.1	51.1#



Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations
APPROVED

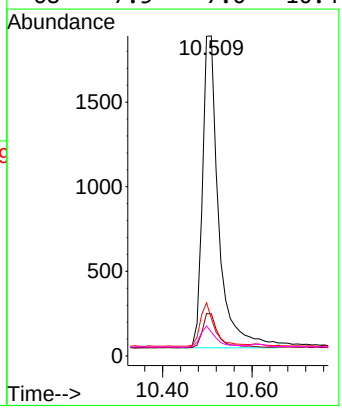
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

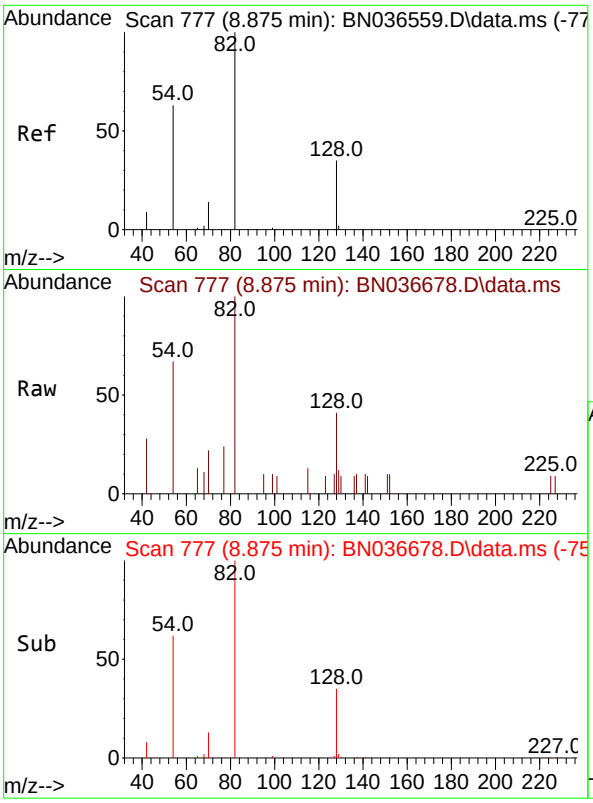


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:136 Resp: 4653

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	11.7	11.5	17.3
68	7.5	7.0	10.4

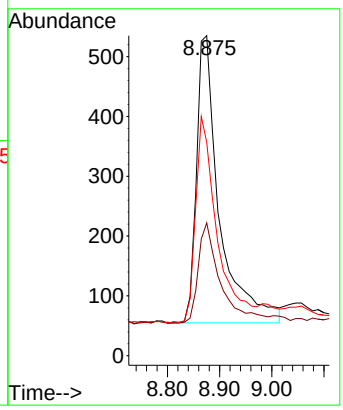




#8
Nitrobenzene-d5
Concen: 0.290 ng
RT: 8.875 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion: 82 Resp: 147

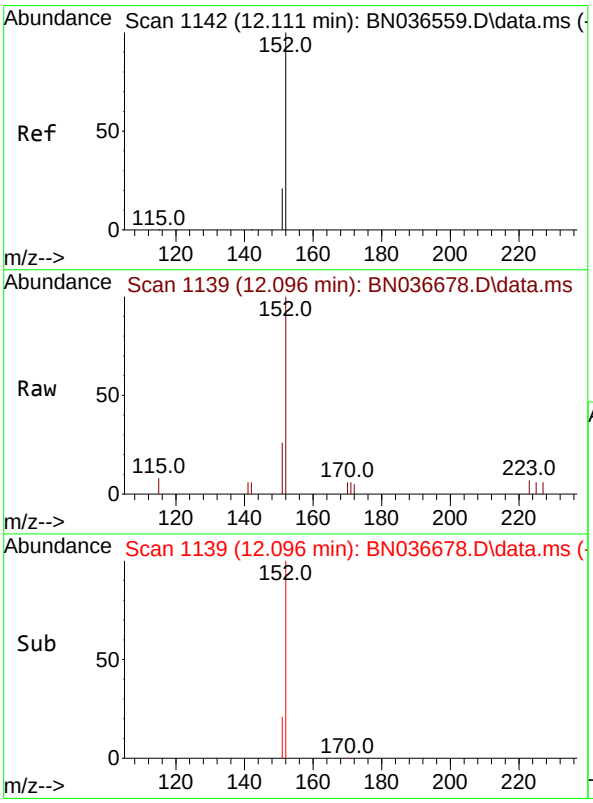
Ion	Ratio	Lower	Upper
82	100		
128	41.5	30.6	45.8
54	66.7	52.2	78.4



Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations
APPROVED

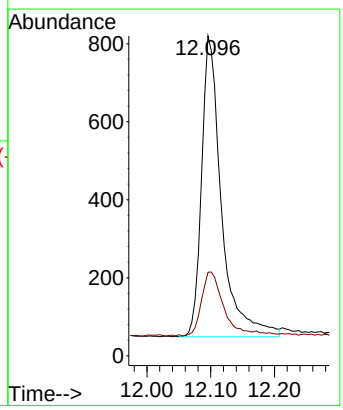
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

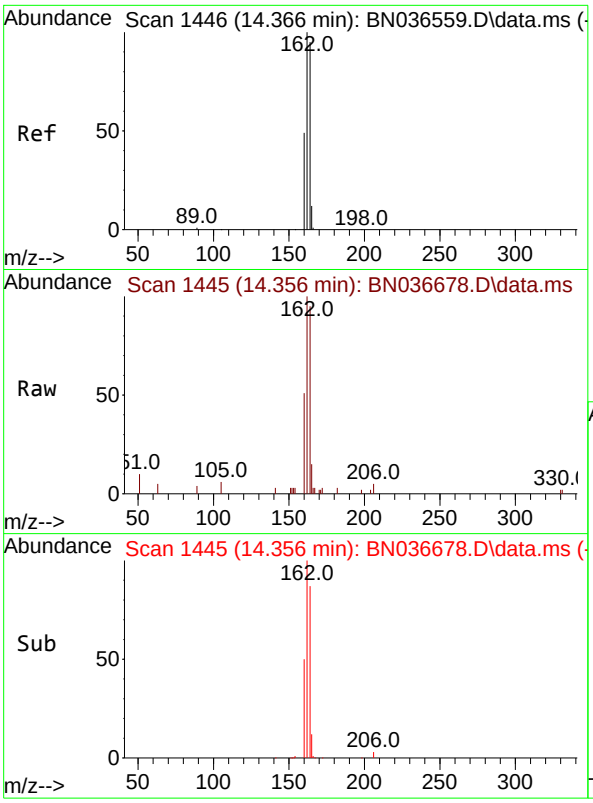


#11
2-Methylnaphthalene-d10
Concen: 0.242 ng
RT: 12.096 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:152 Resp: 1673

Ion	Ratio	Lower	Upper
152	100		
151	24.1	17.0	25.6

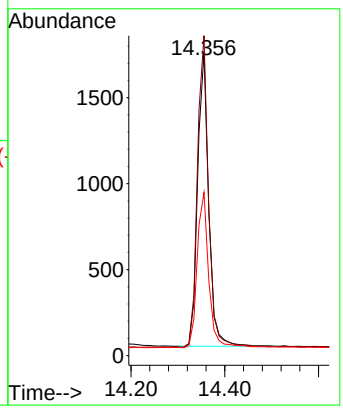




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:164 Resp: 279

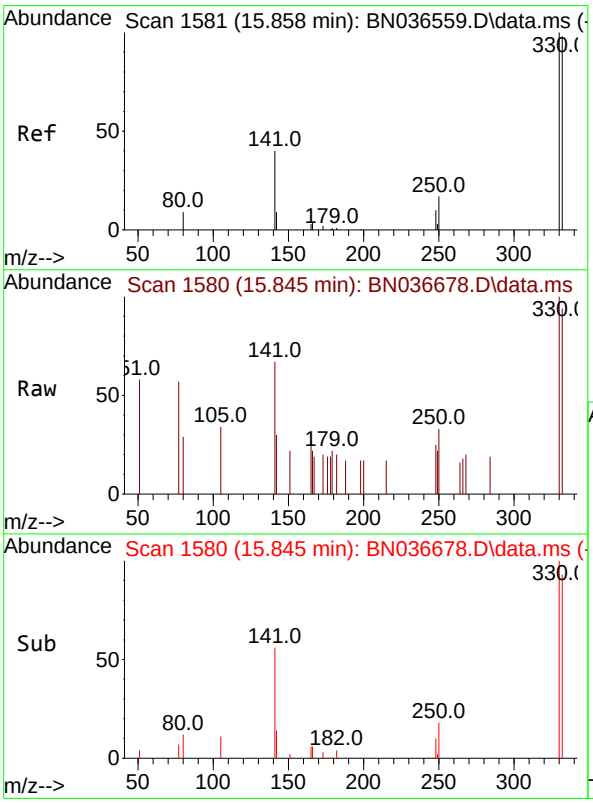
Ion	Ratio	Lower	Upper
164	100		
162	105.7	84.2	126.2
160	53.9	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations
APPROVED

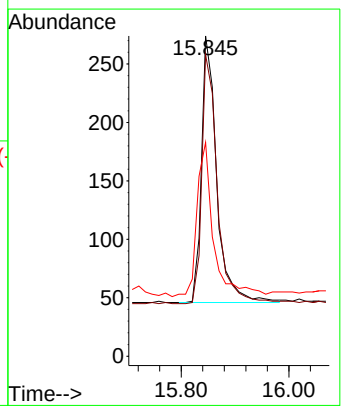
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

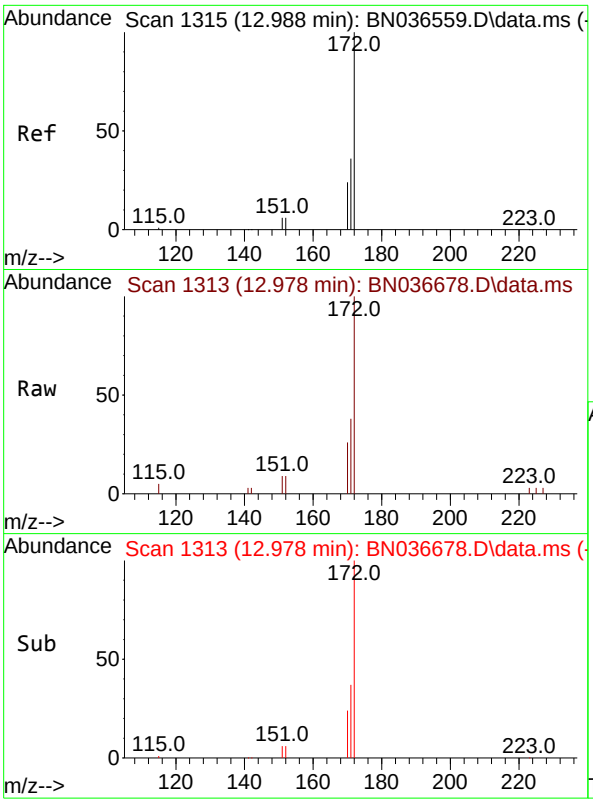


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:330 Resp: 449

Ion	Ratio	Lower	Upper
330	100		
332	95.3	75.2	112.8
141	62.6	43.4	65.2

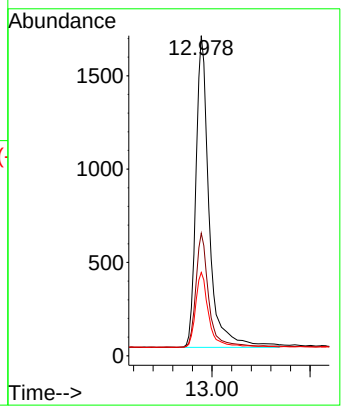




#15
2-Fluorobiphenyl
Concen: 0.272 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:172 Resp: 440

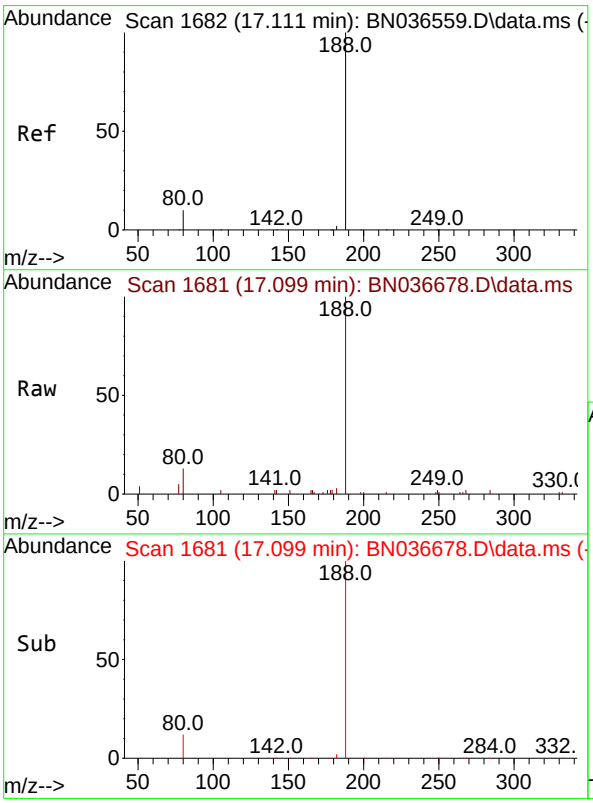
Ion	Ratio	Lower	Upper
172	100		
171	38.3	29.5	44.3
170	26.0	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations
APPROVED

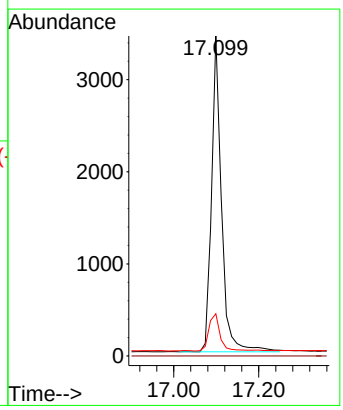
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

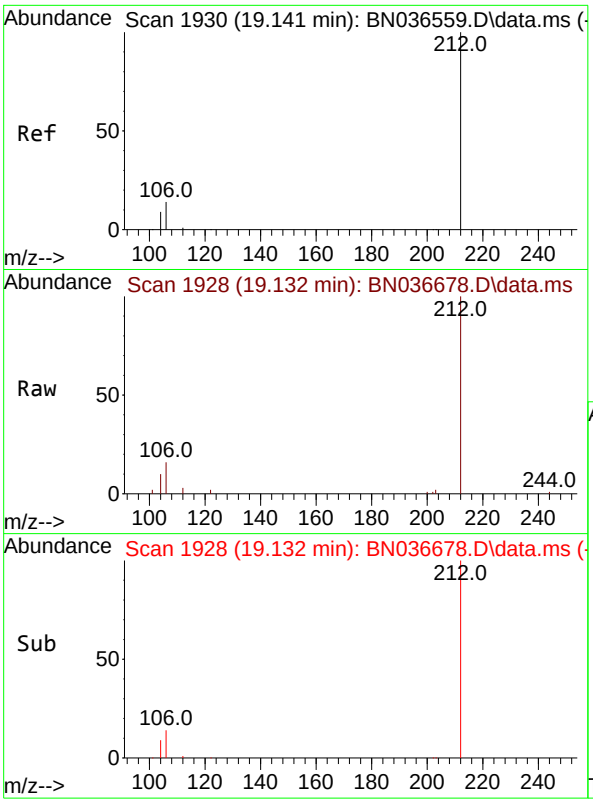


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:188 Resp: 5581

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

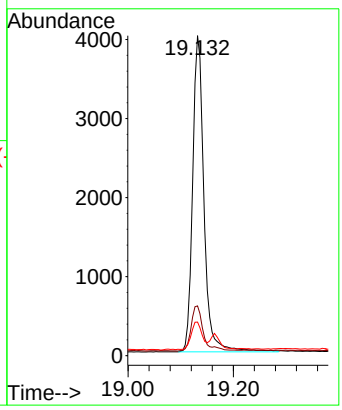




#27
Fluoranthene-d10
Concen: 0.419 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:212 Resp: 599

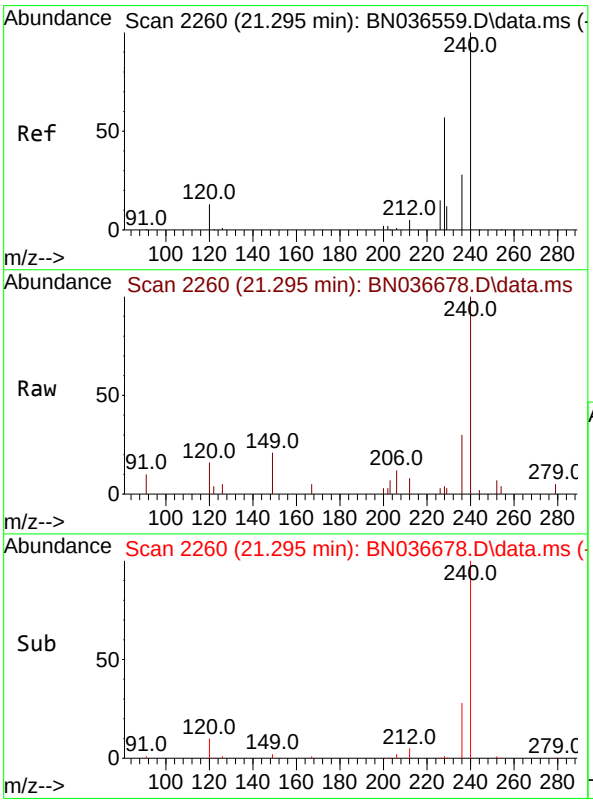
Ion	Ratio	Lower	Upper
212	100		
106	15.2	11.8	17.6
104	8.6	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations
APPROVED

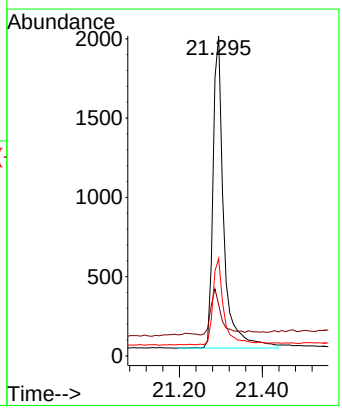
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

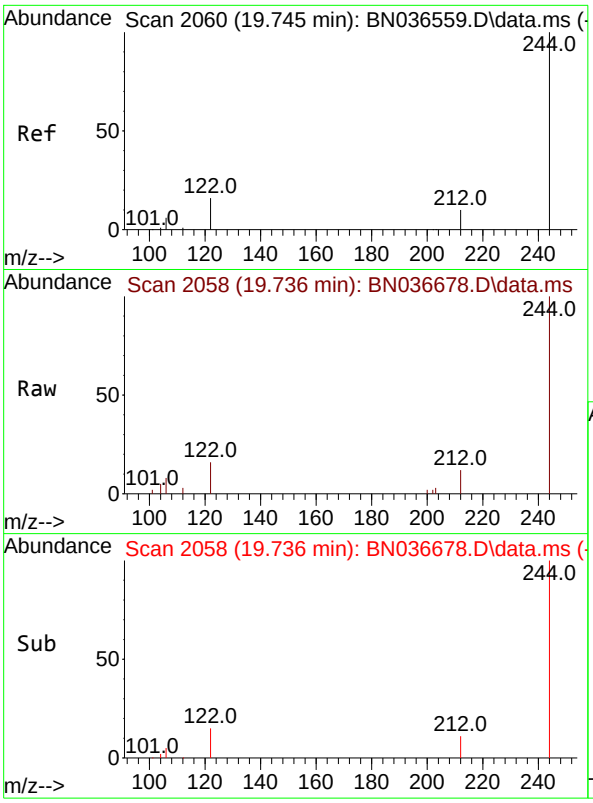


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:240 Resp: 3549

Ion	Ratio	Lower	Upper
240	100		
120	16.0	14.6	22.0
236	30.4	24.1	36.1





#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

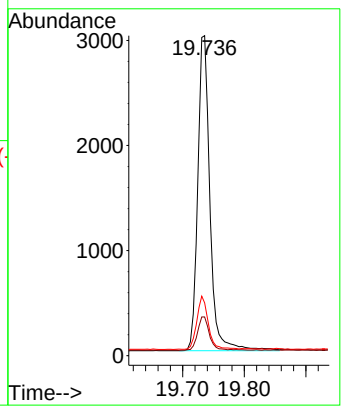
Tgt Ion:244 Resp: 413

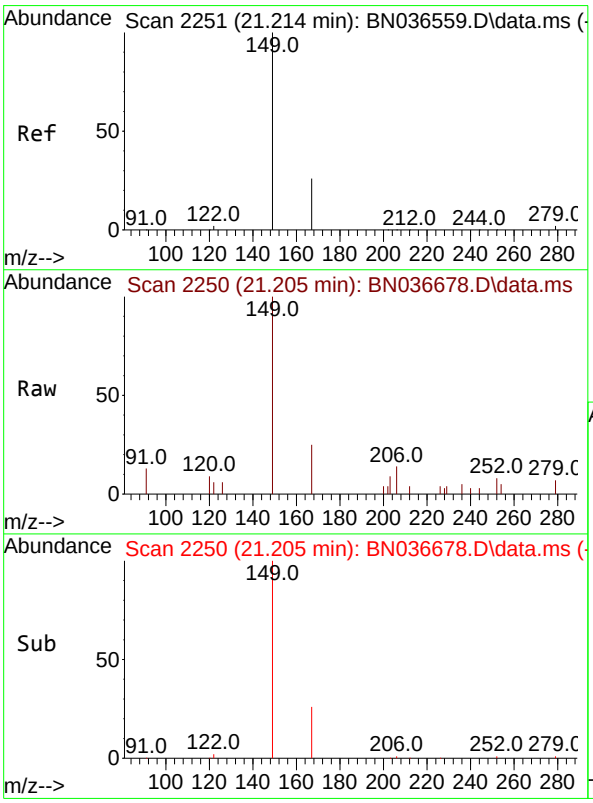
Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	16.5	13.9	20.9

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

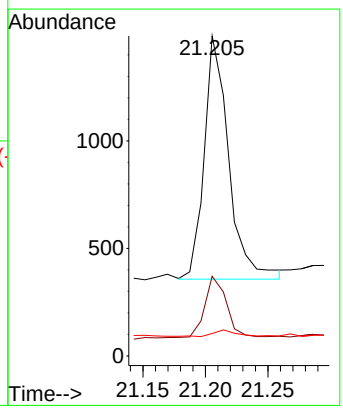


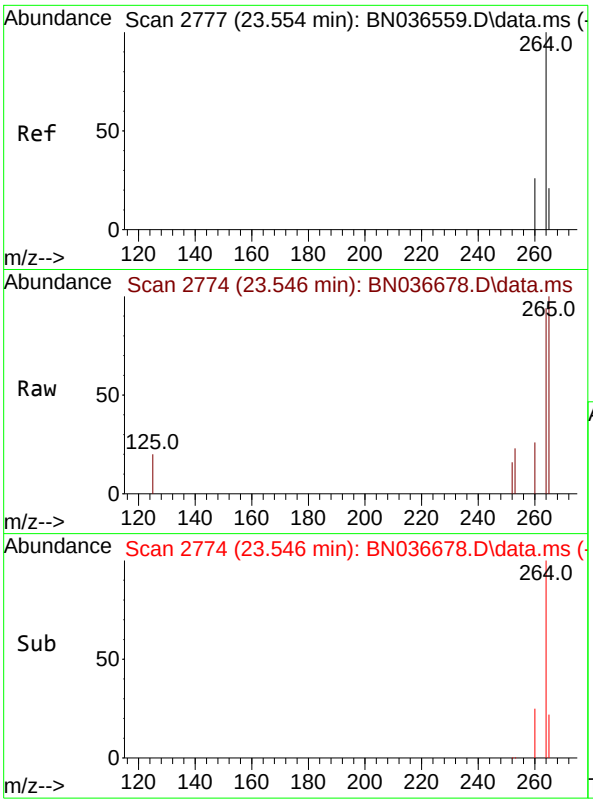


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.176 ng m
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:149 Resp: 1549

Ion	Ratio	Lower	Upper
149	100		
167	22.6	20.7	31.1
279	2.3	3.6	5.4#

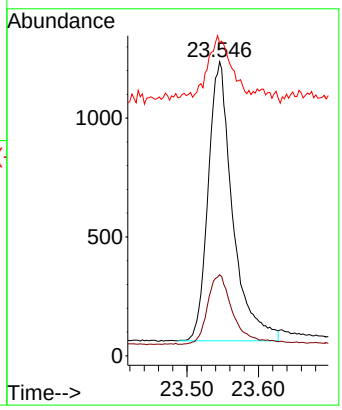




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:264 Resp: 279

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.6	33.8
265	106.5	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

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

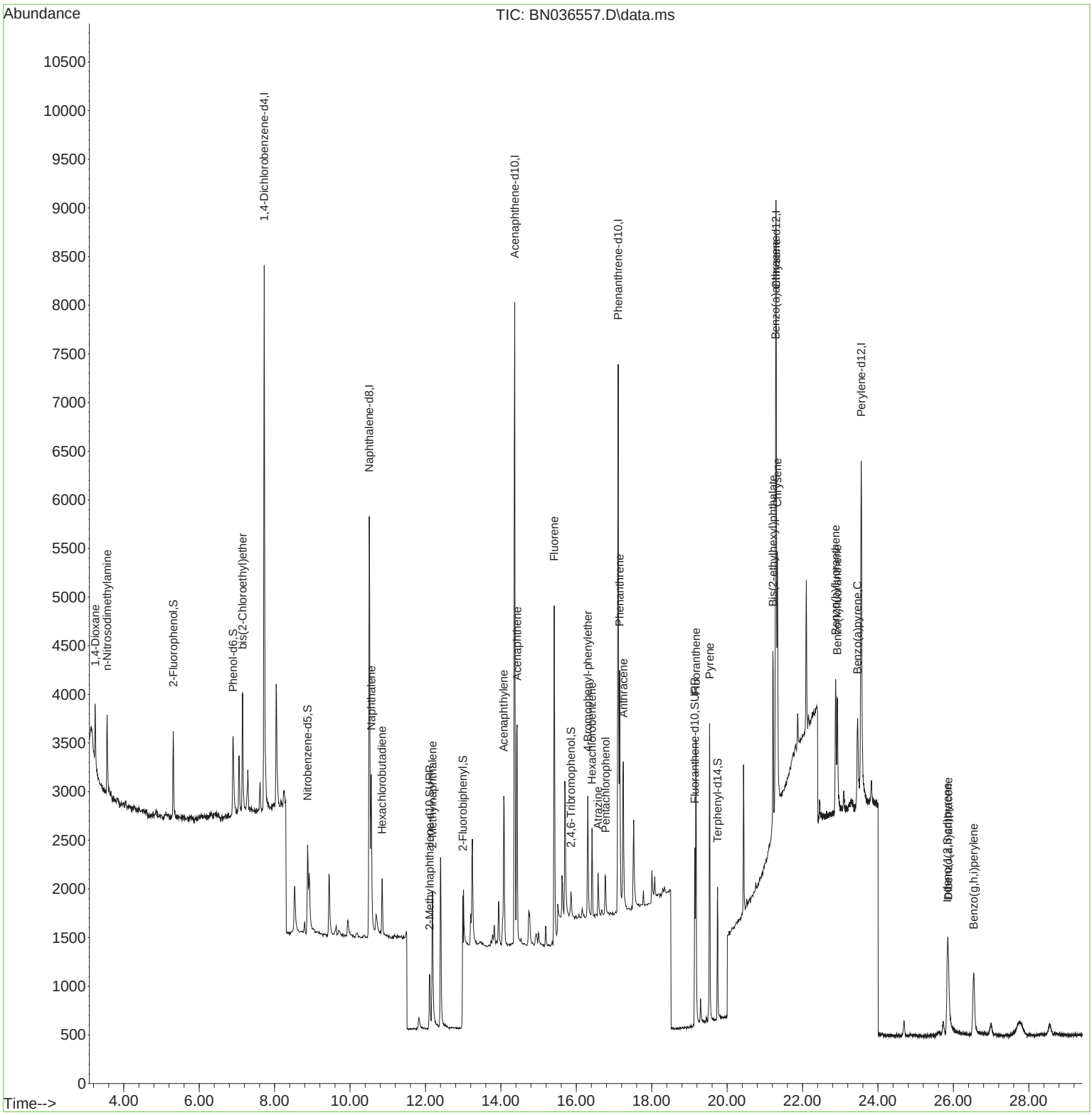
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Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

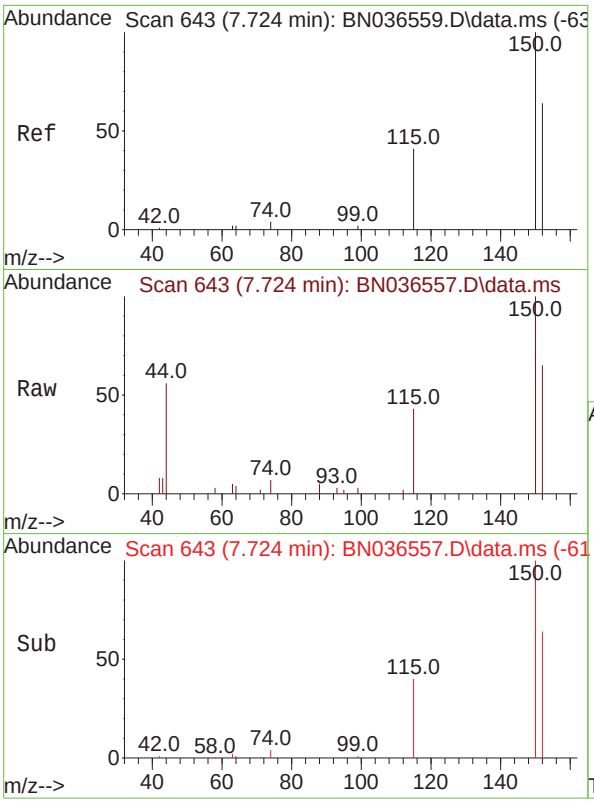
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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

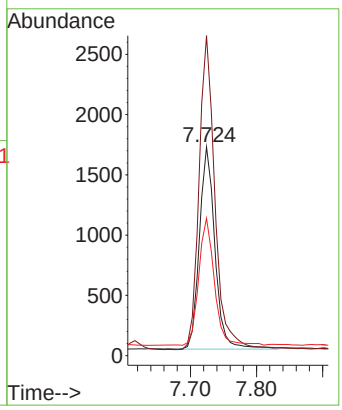




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152 Resp: 275

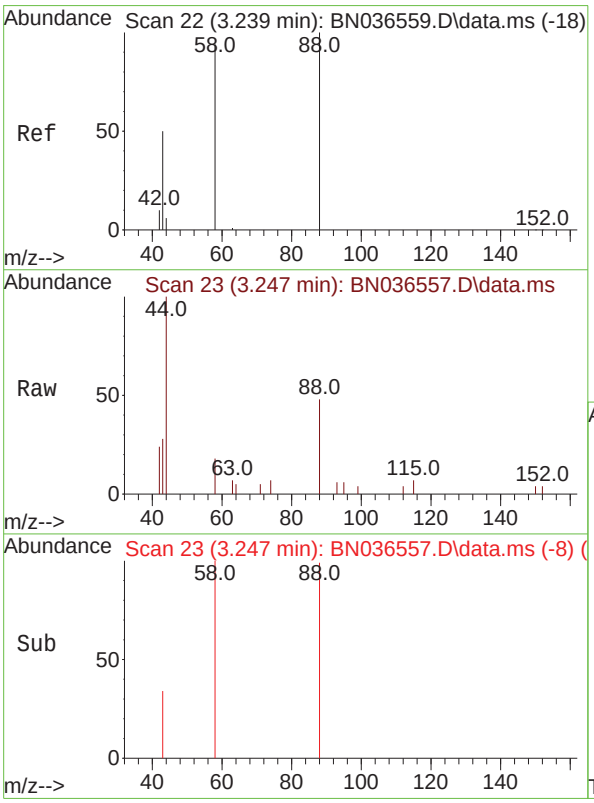
Ion	Ratio	Lower	Upper
152	100		
150	153.3	123.7	185.5
115	65.8	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

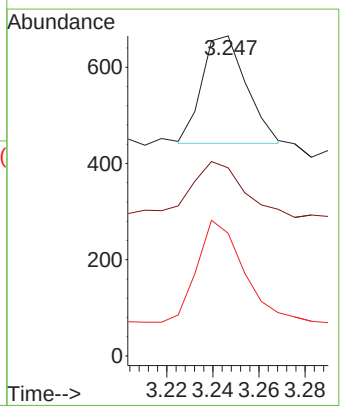
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

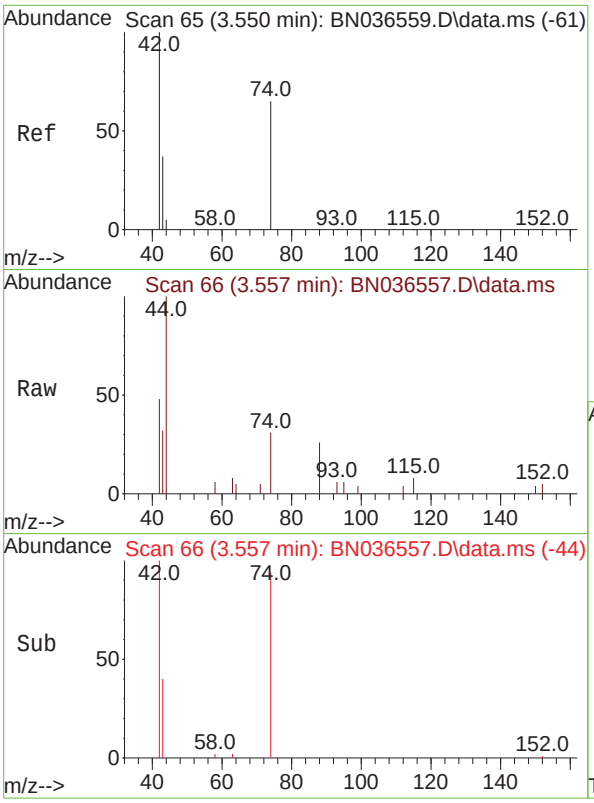


#2
1,4-Dioxane
Concen: 0.098 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#

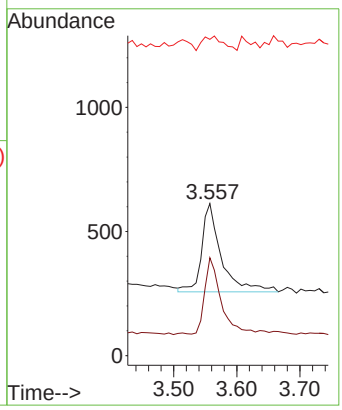




#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 42 Resp: 76

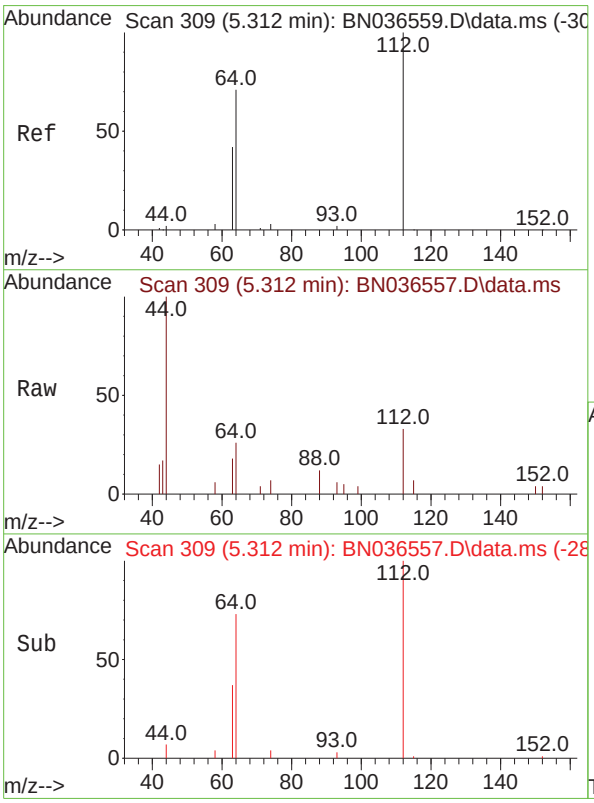
Ion	Ratio	Lower	Upper
42	100		
74	73.0	60.6	90.8
44	16.6	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

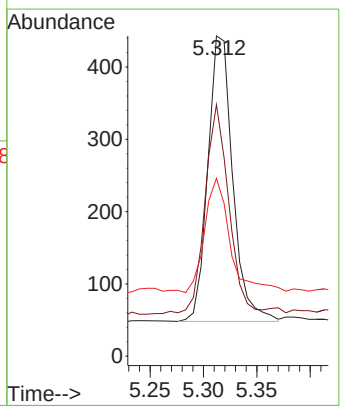
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

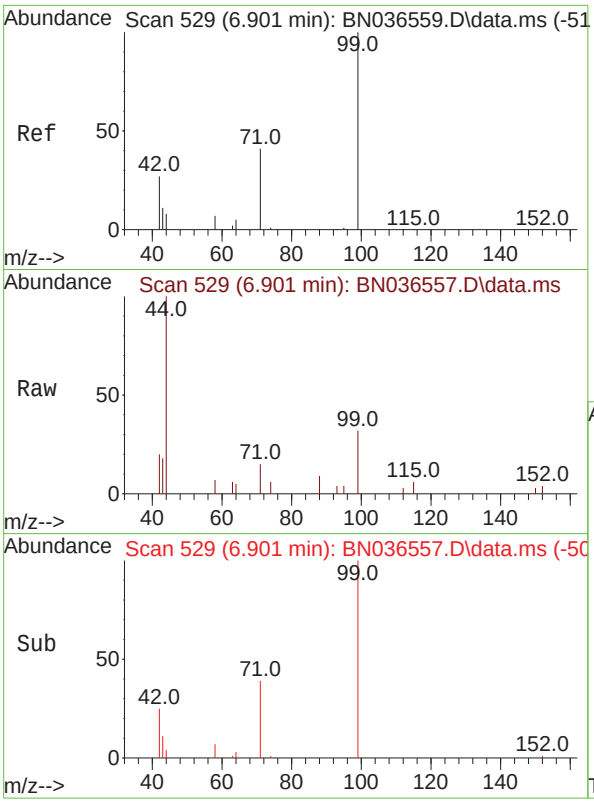


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

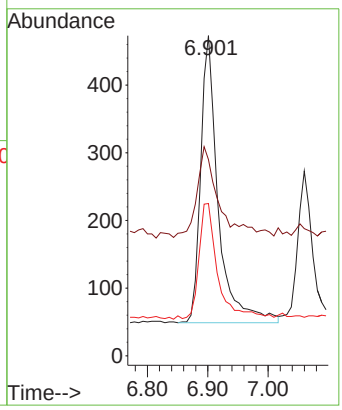




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 99 Resp: 85

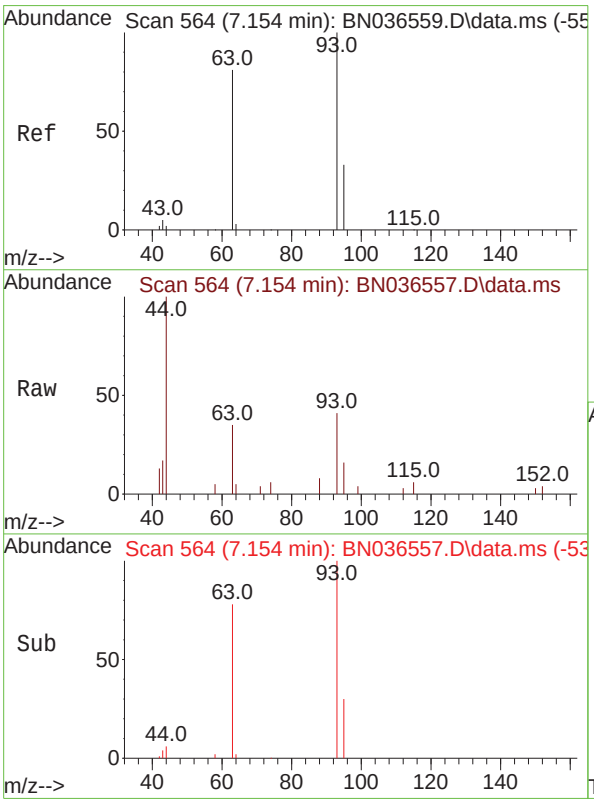
Ion	Ratio	Lower	Upper
99	100		
42	39.8	26.5	39.7#
71	42.8	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

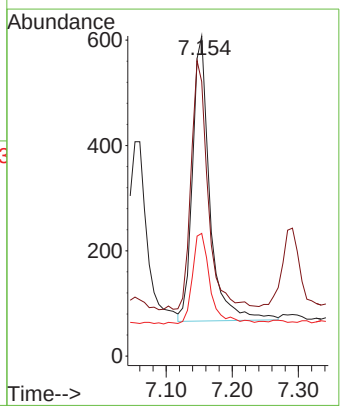
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

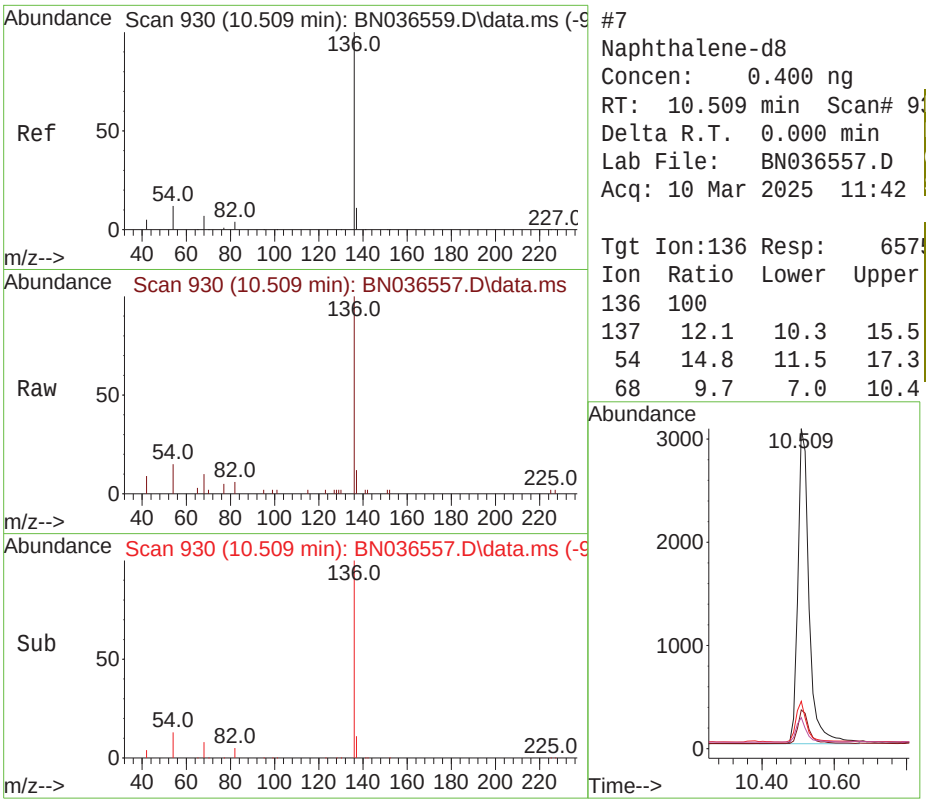


#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

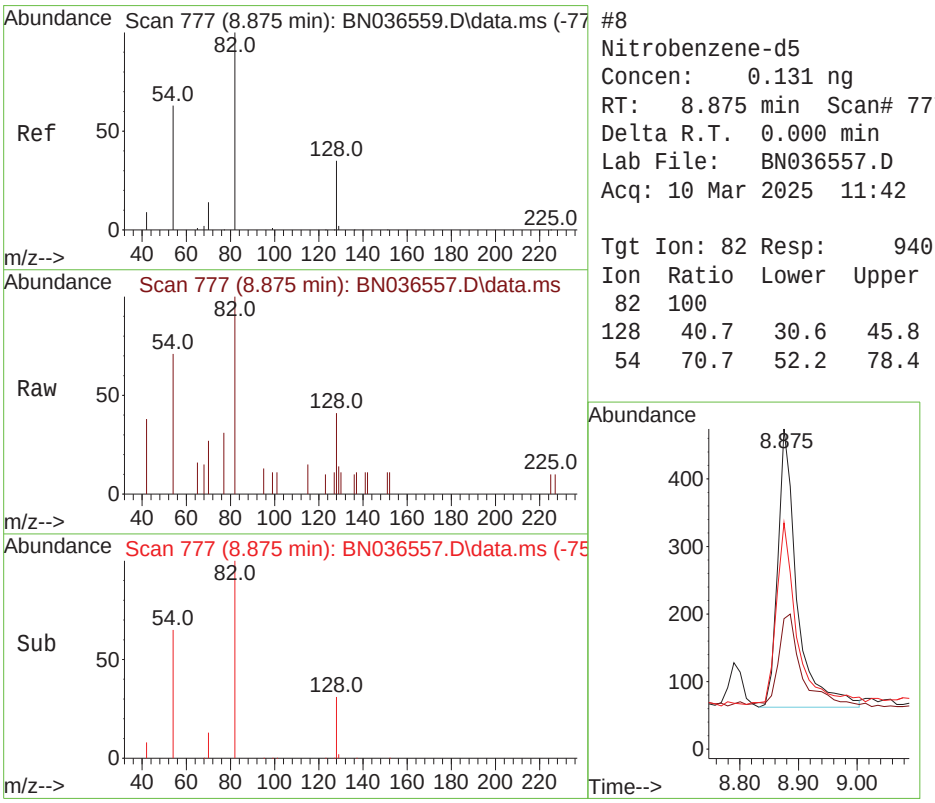
Tgt Ion:136 Resp: 657

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

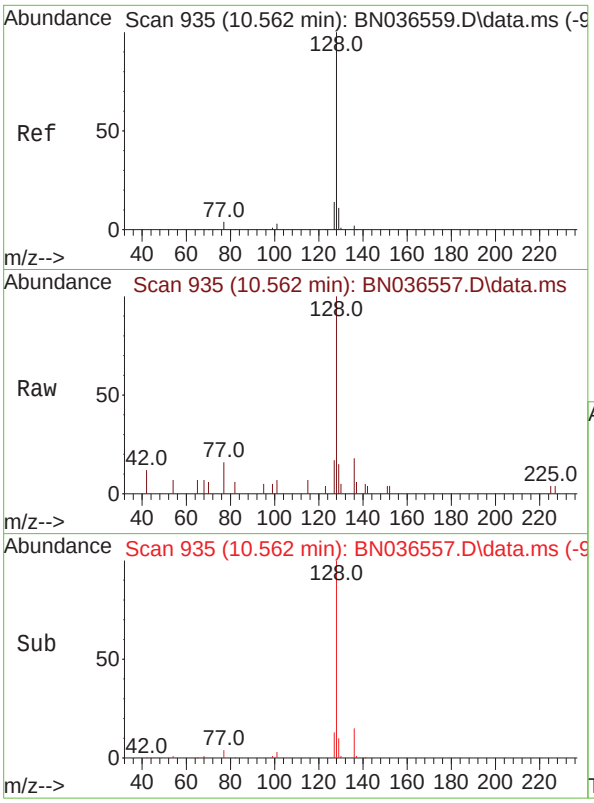
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

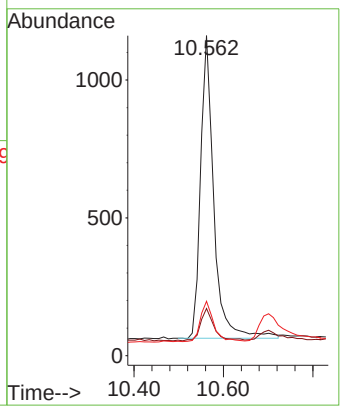
Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4



#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

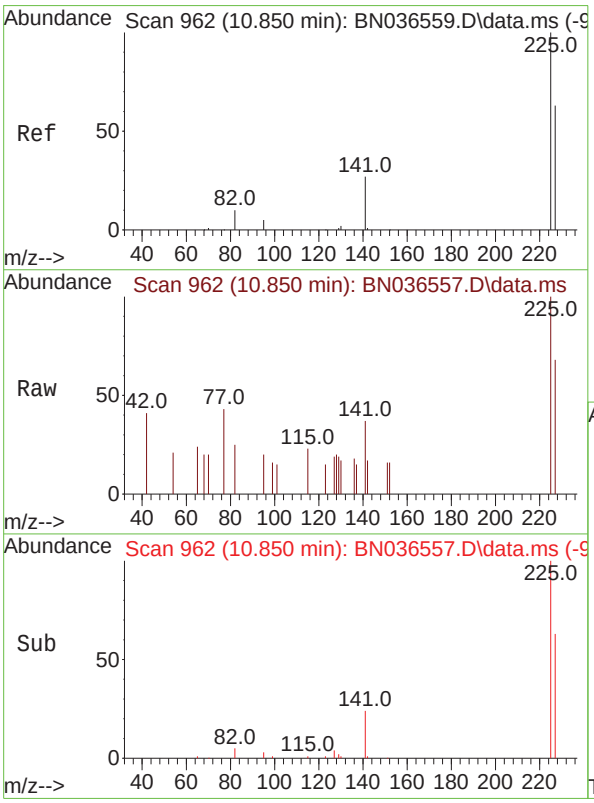
Ion	Ratio	Lower	Upper
128	100		
129	14.7	9.8	14.6#
127	17.0	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

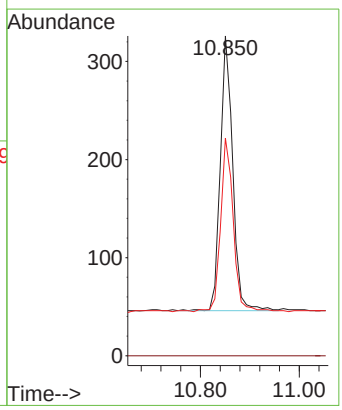
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

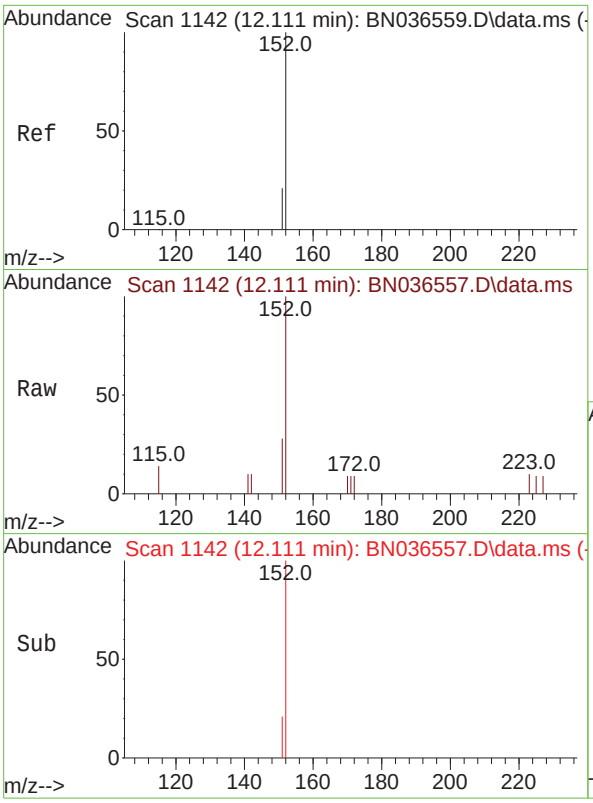


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

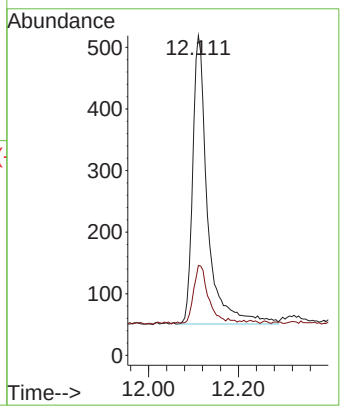
Tgt Ion:152 Resp: 107

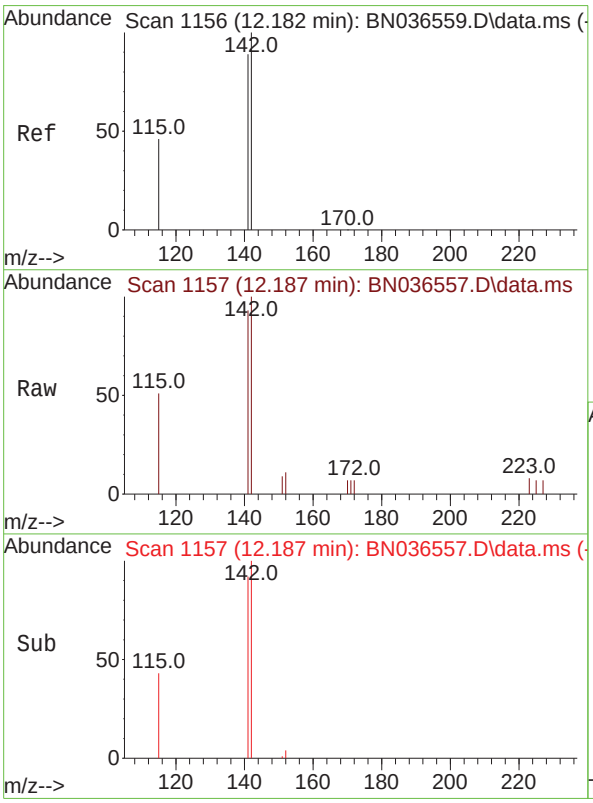
Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

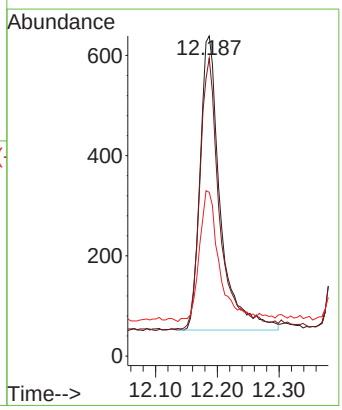


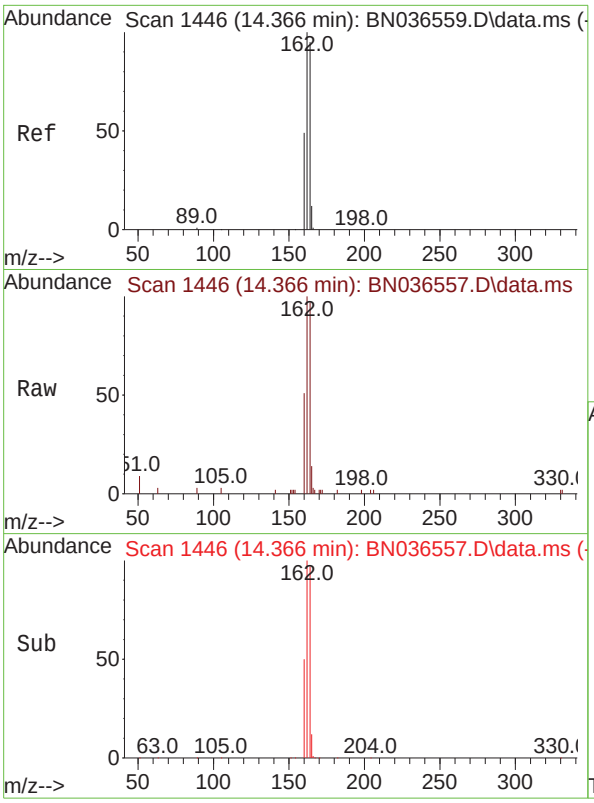


#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

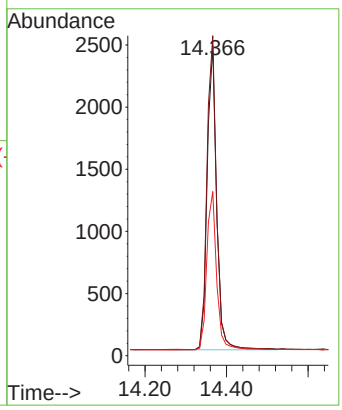
Tgt Ion:164 Resp: 395

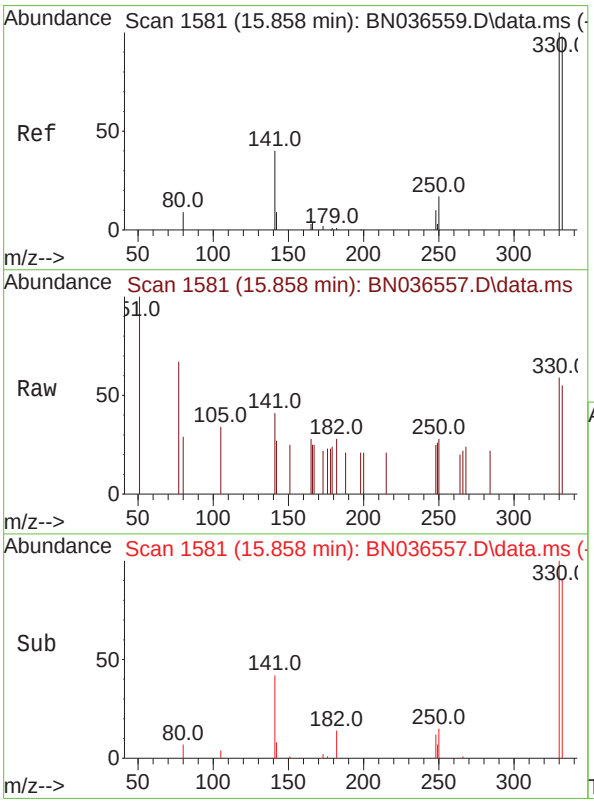
Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	53.0	42.2	63.2

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

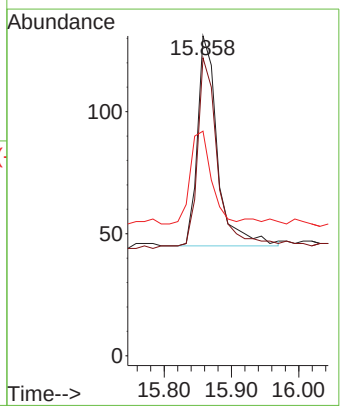


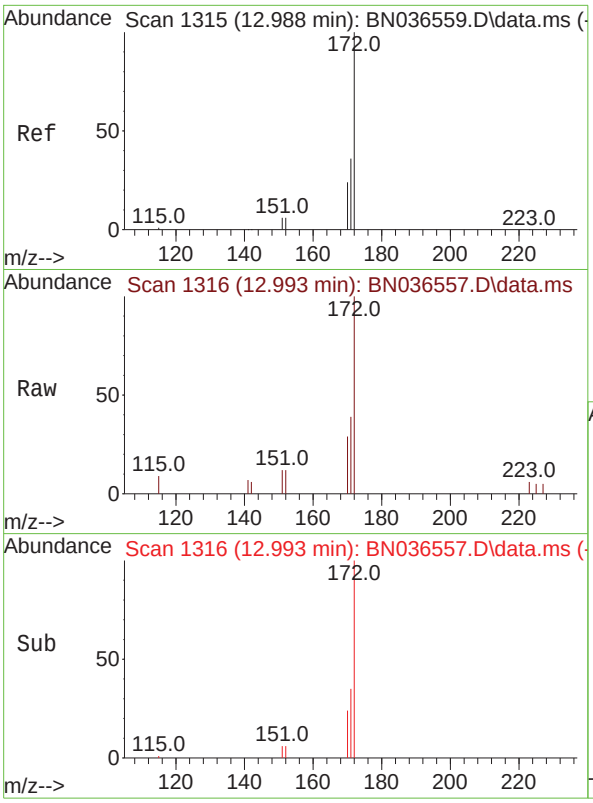


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

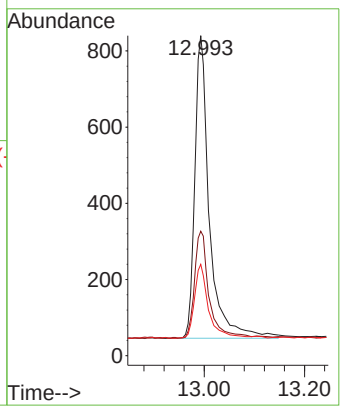




#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:172 Resp: 218

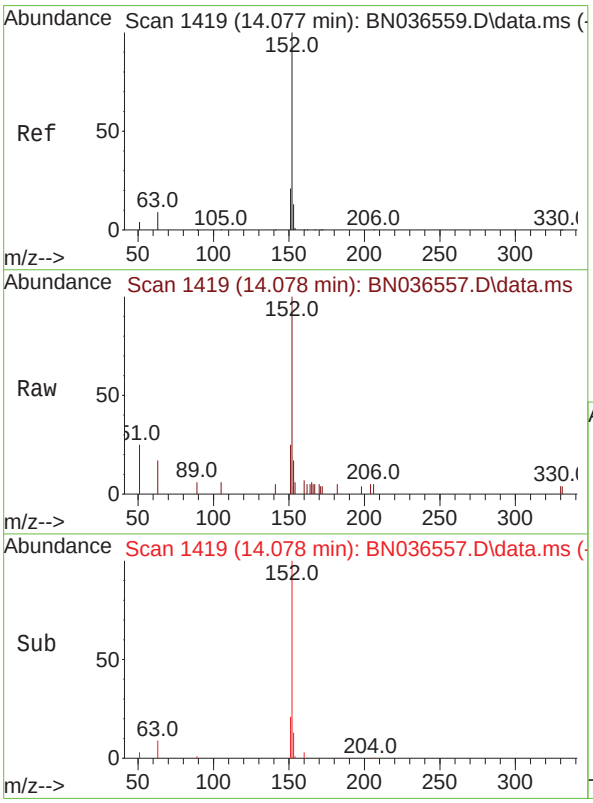
Ion	Ratio	Lower	Upper
172	100		
171	38.9	29.5	44.3
170	28.6	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

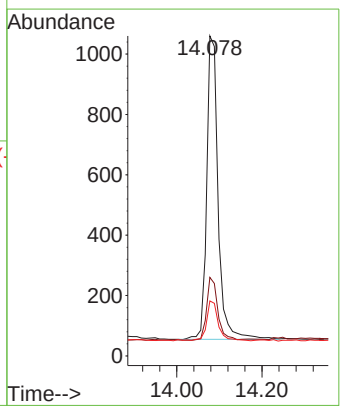
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

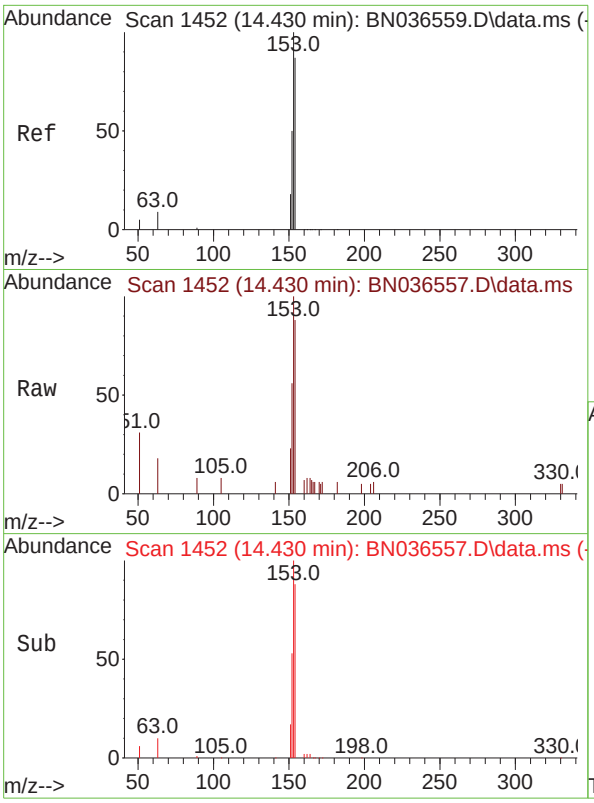


#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

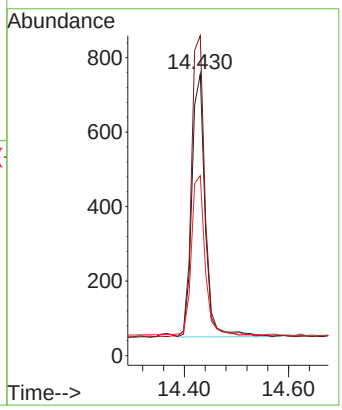




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:154 Resp: 124

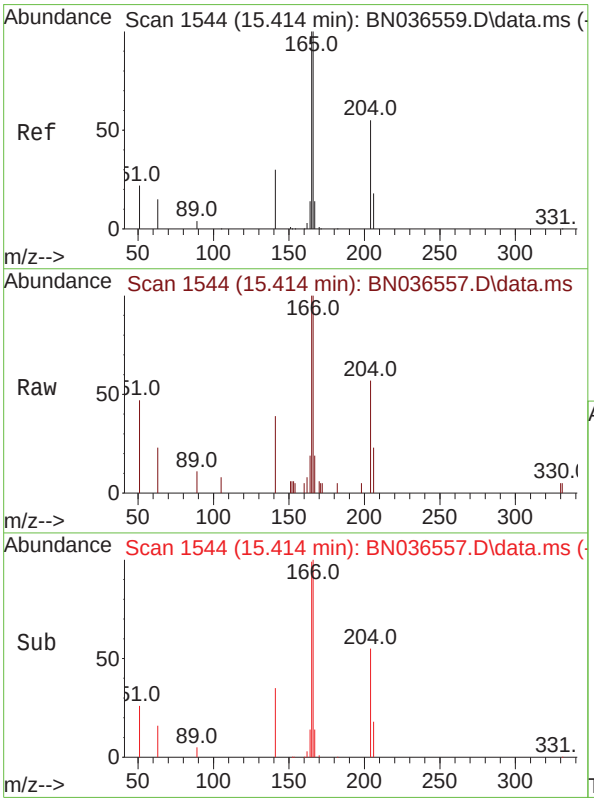
Ion	Ratio	Lower	Upper
154	100		
153	115.9	94.1	141.1
152	62.5	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

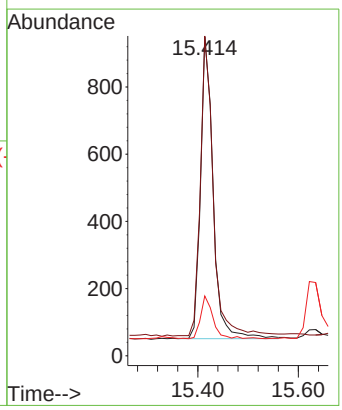
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

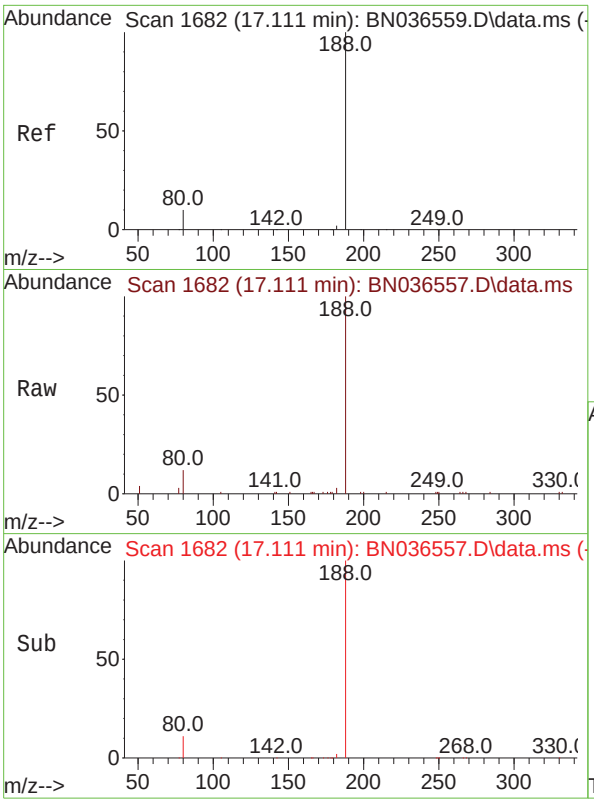


#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

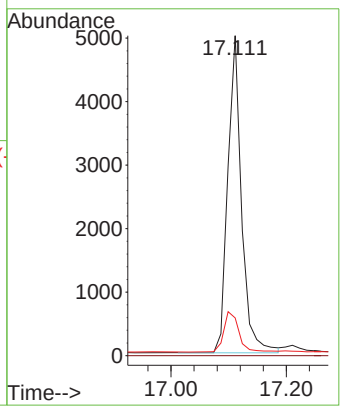




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:188 Resp: 826

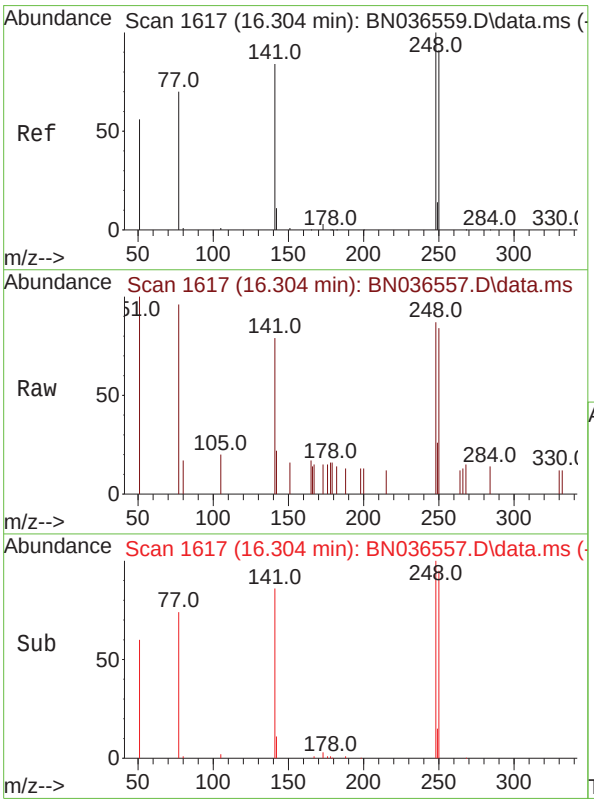
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

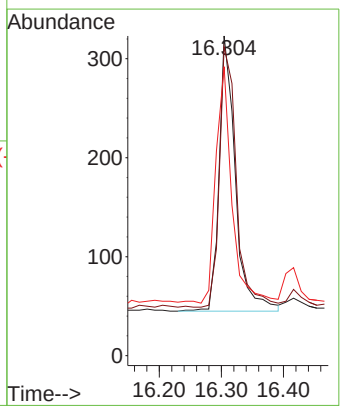
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

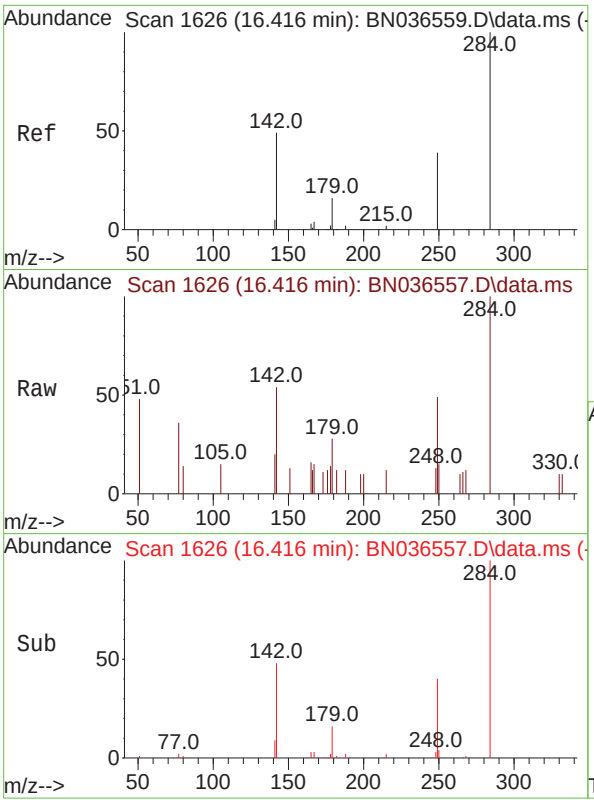


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

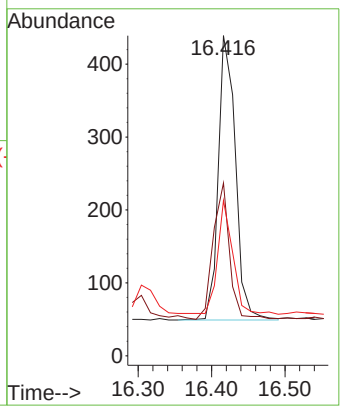




#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284 Resp: 63

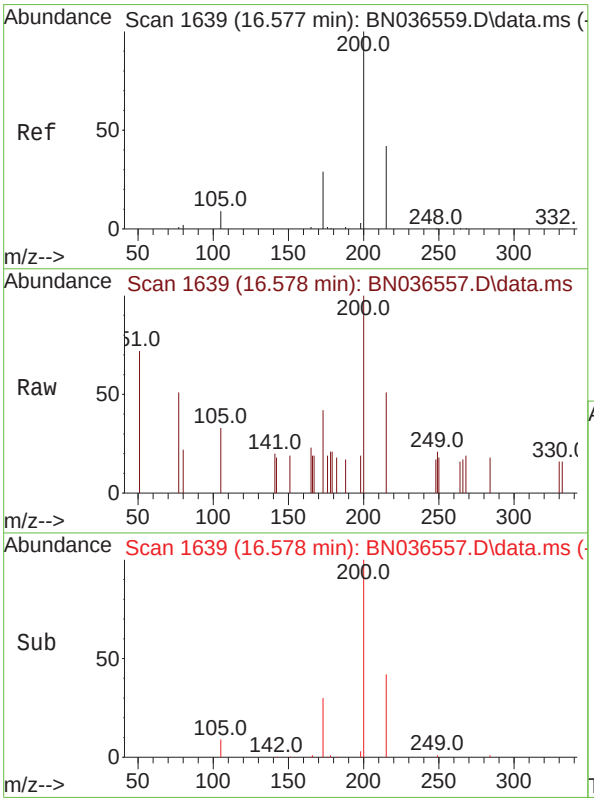
Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

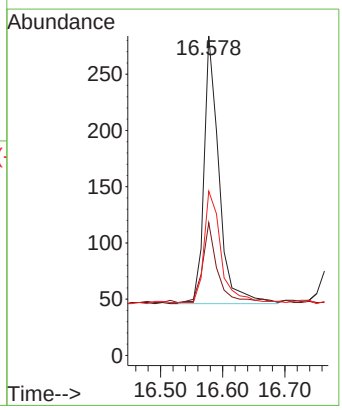
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

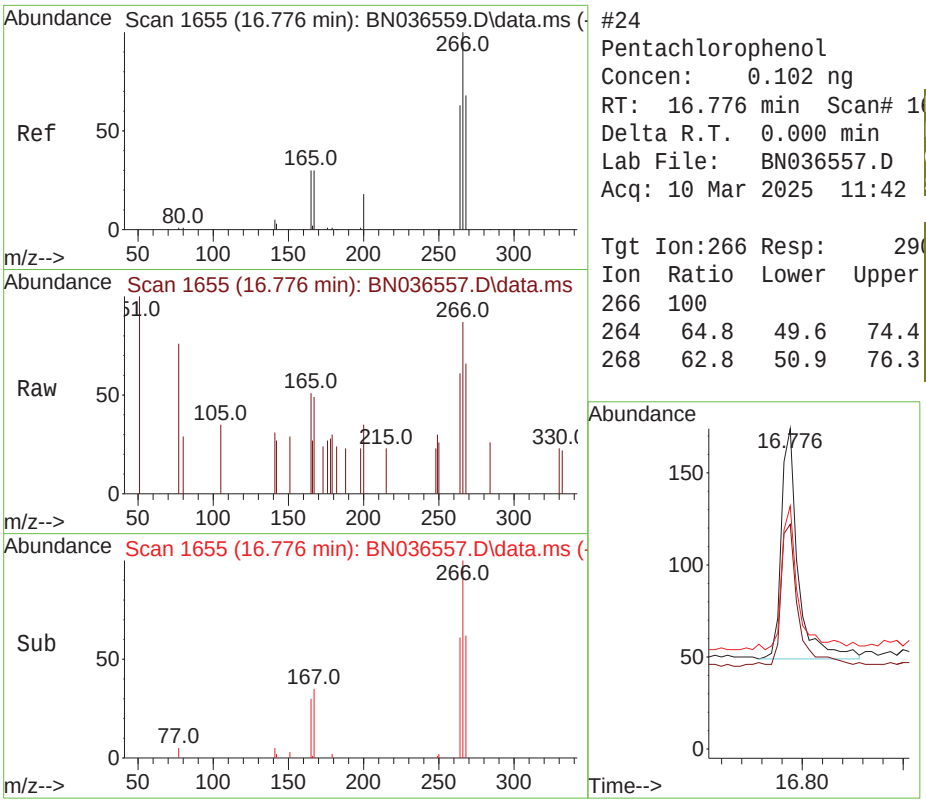


#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

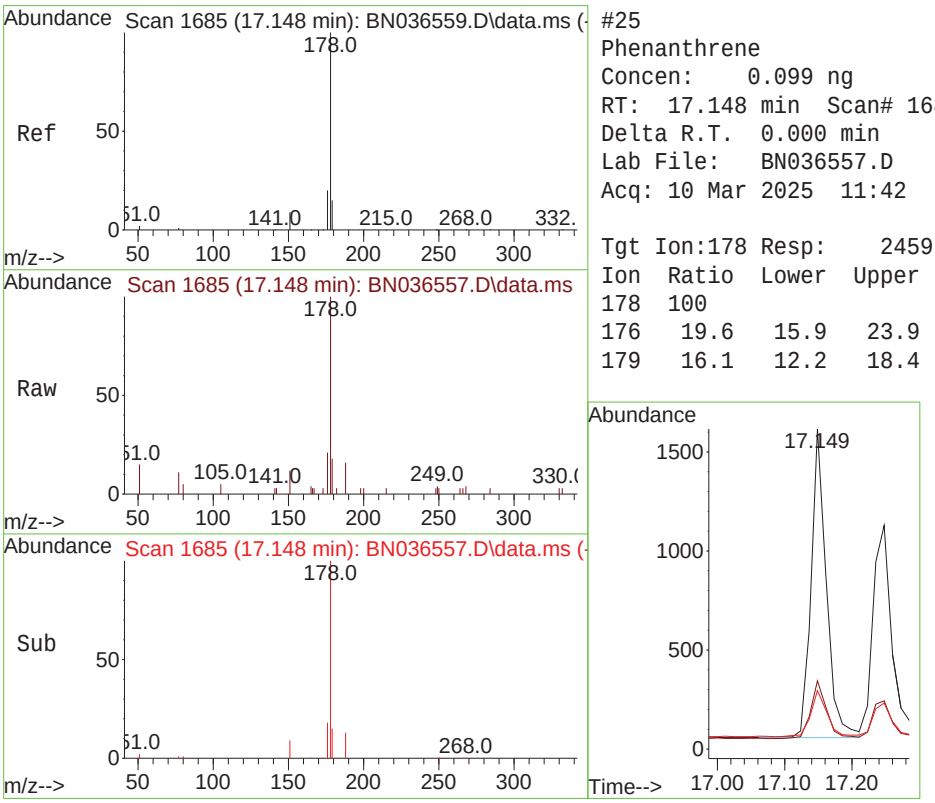
Tgt Ion:266 Resp: 29

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

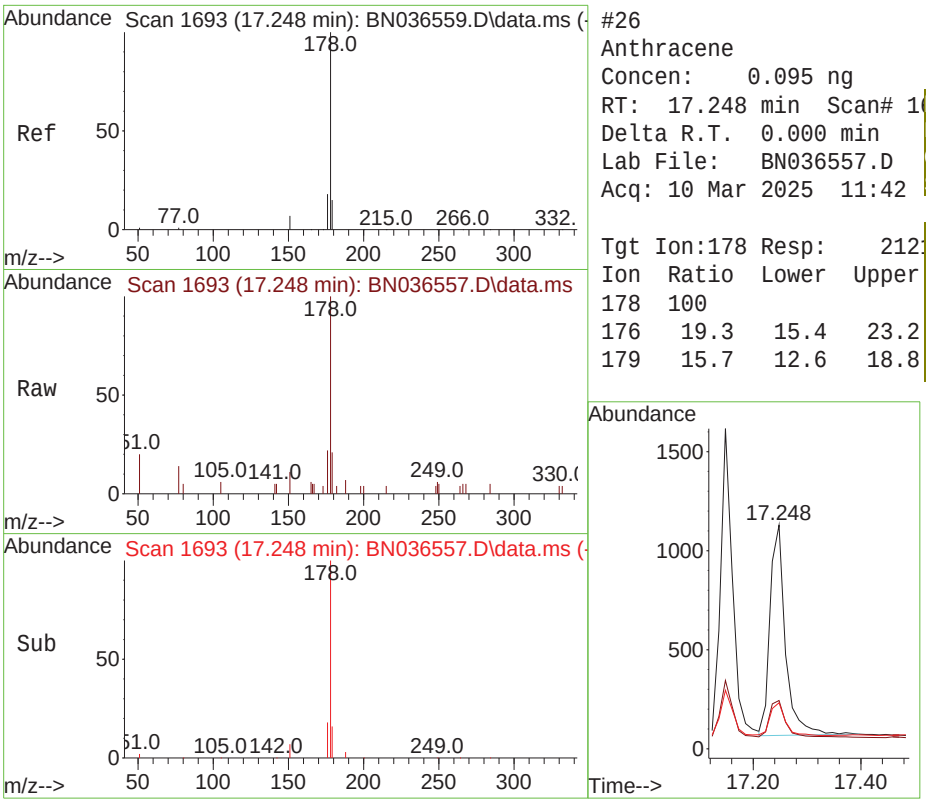
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

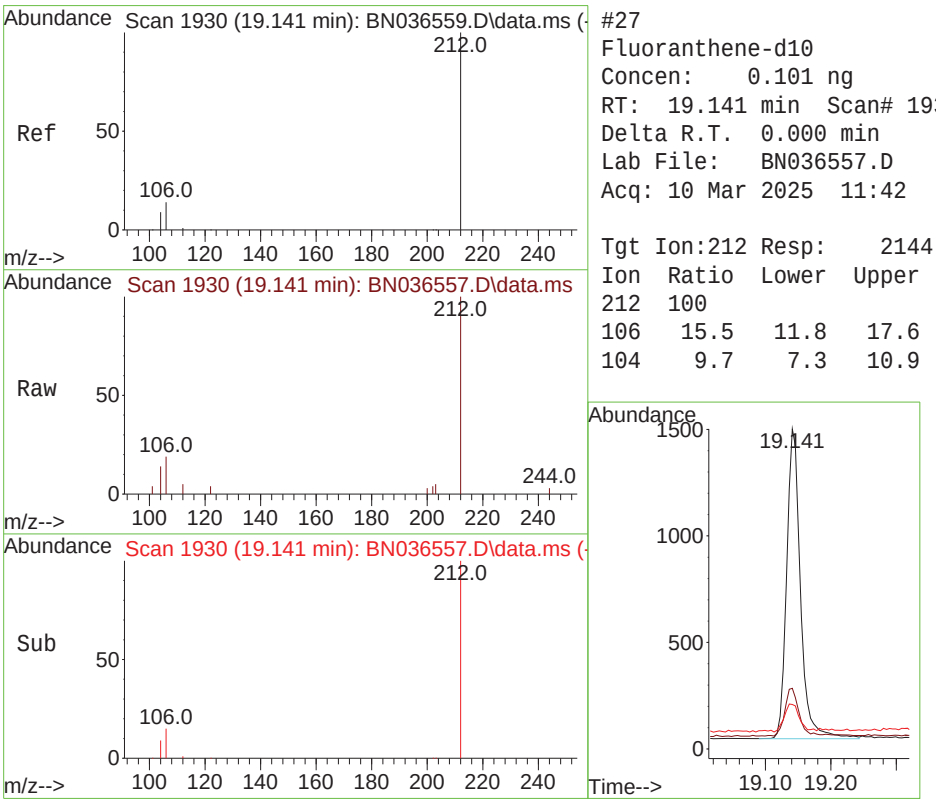
Tgt Ion:178 Resp: 212

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

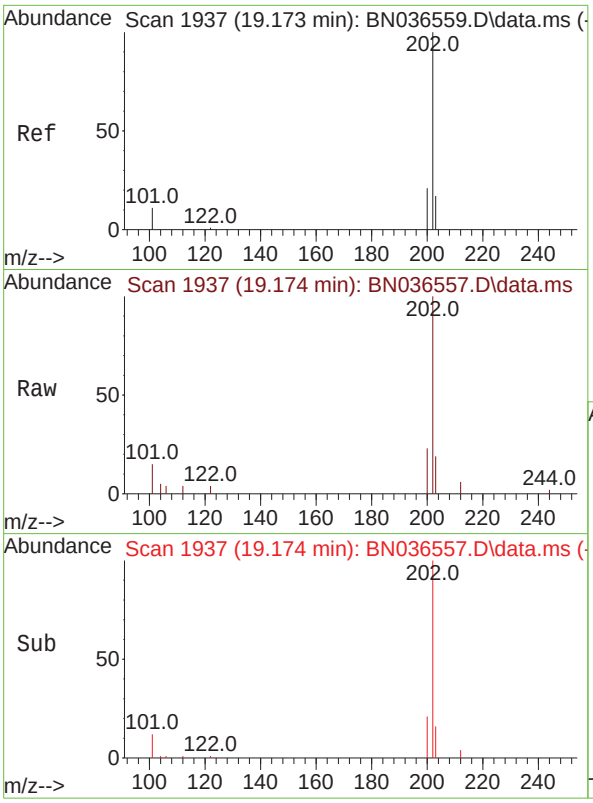
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

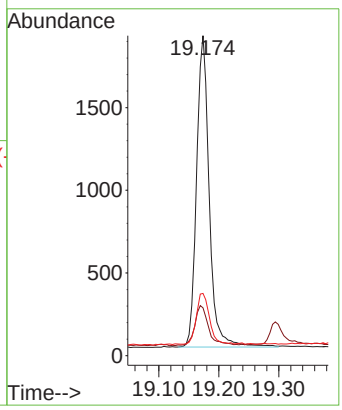
Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9



#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

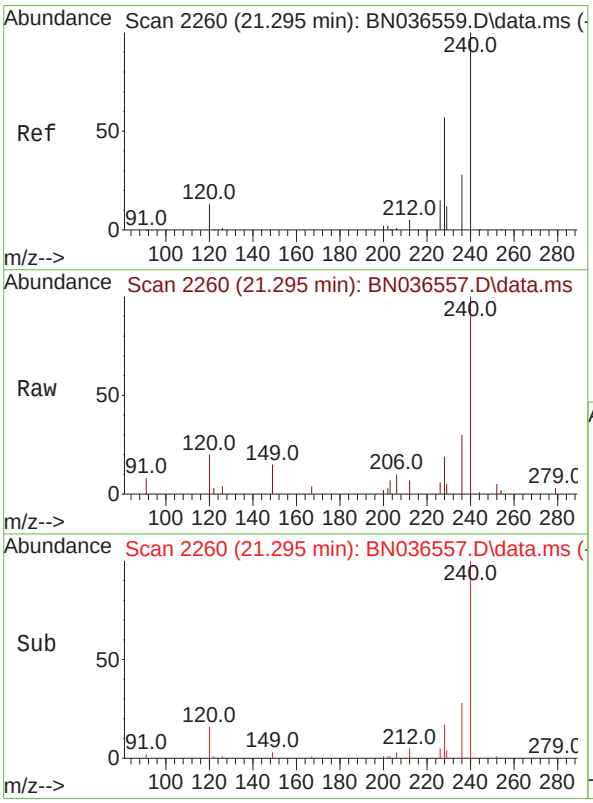
Ion	Ratio	Lower	Upper
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

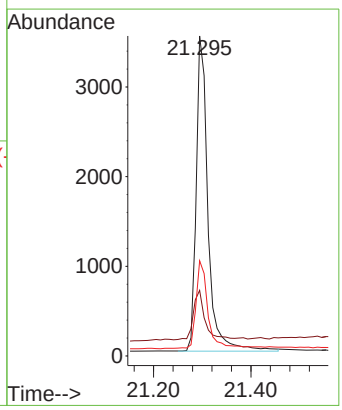
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

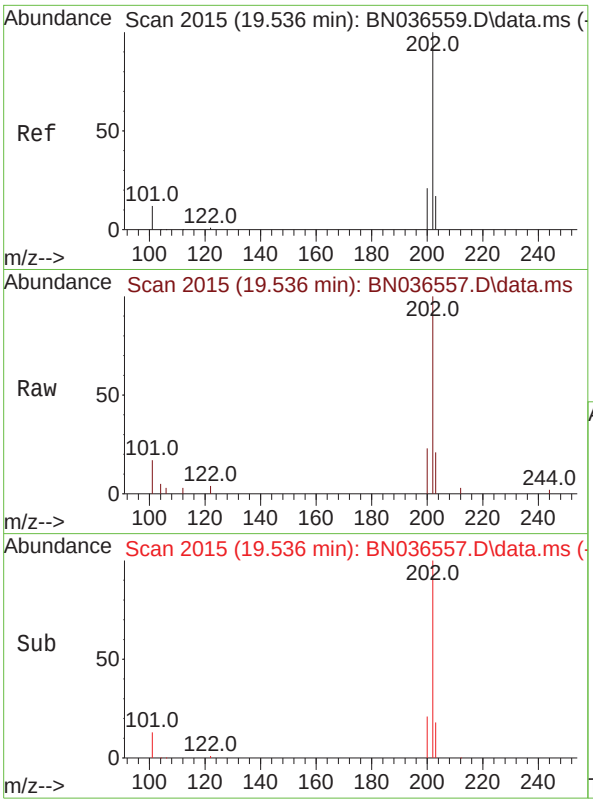


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

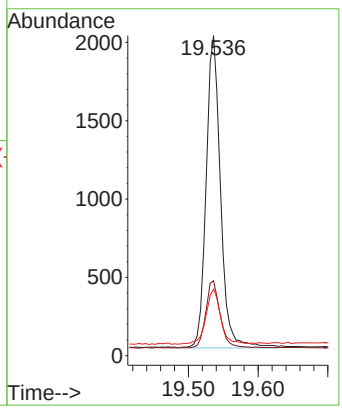




#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:202 Resp: 286

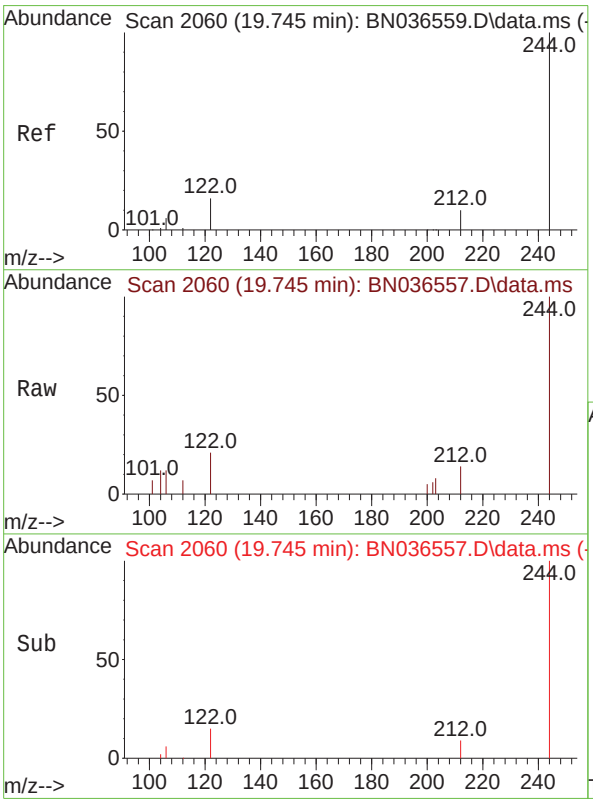
Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

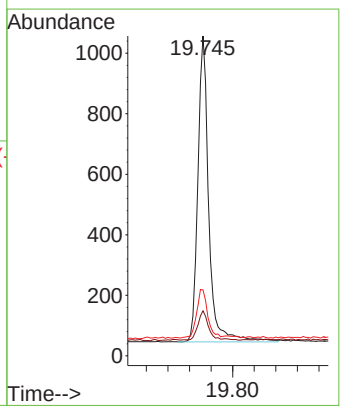
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

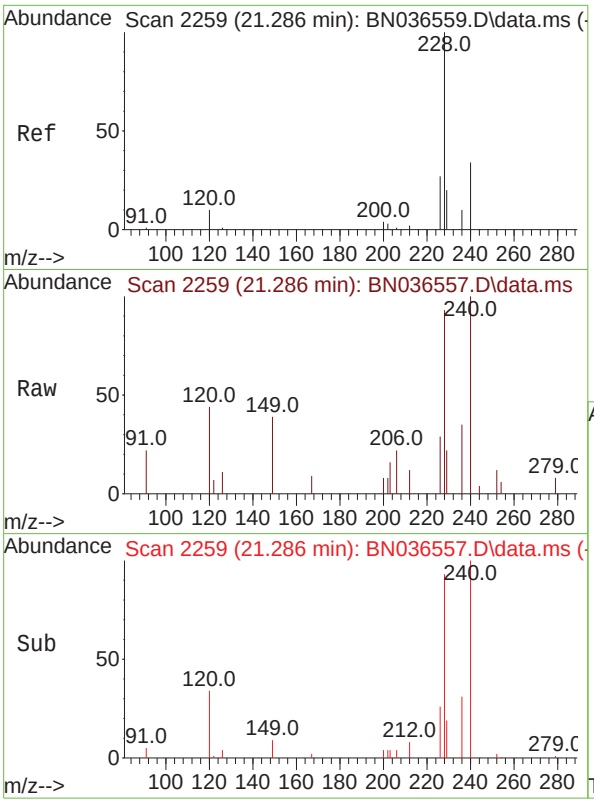


#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

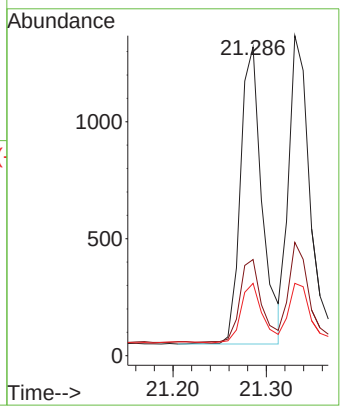




#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:228 Resp: 204

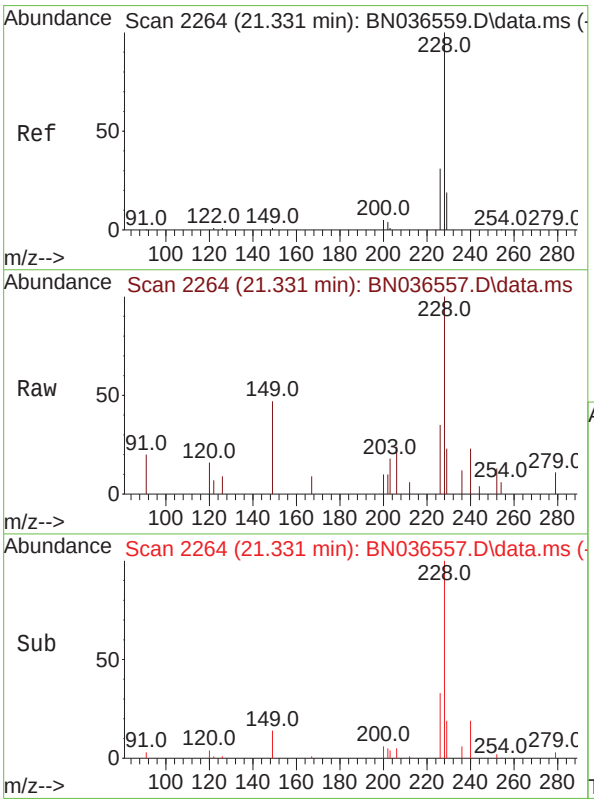
Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

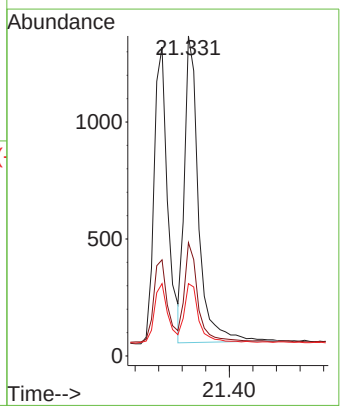
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

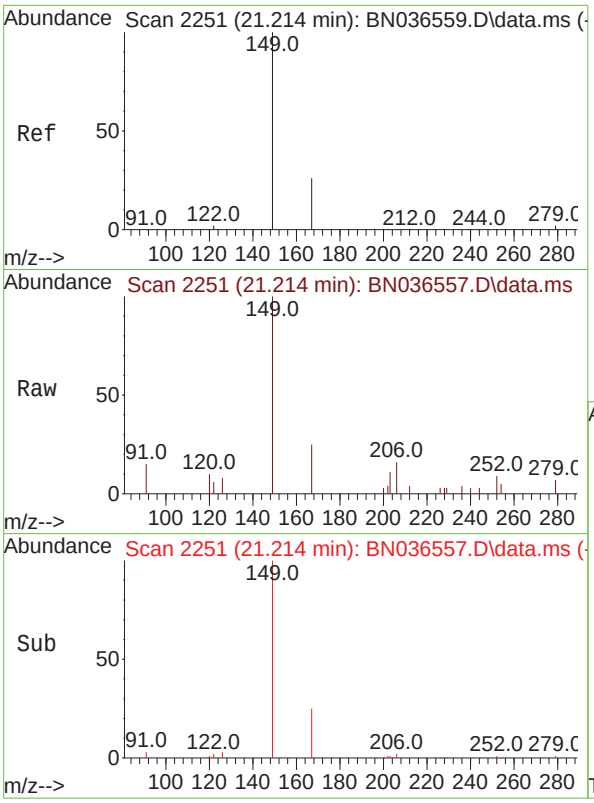


#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

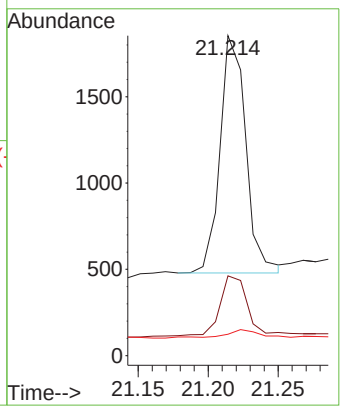
Tgt Ion:149 Resp: 176

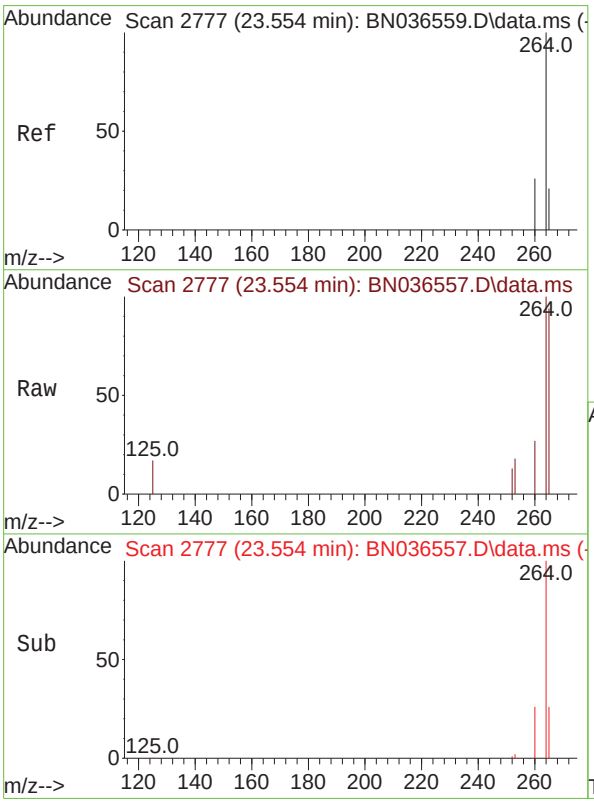
Ion	Ratio	Lower	Upper
149	100		
167	27.9	20.7	31.1
279	4.9	3.6	5.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

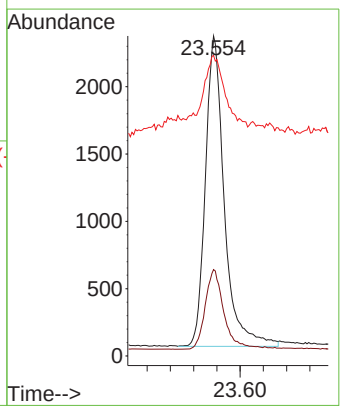


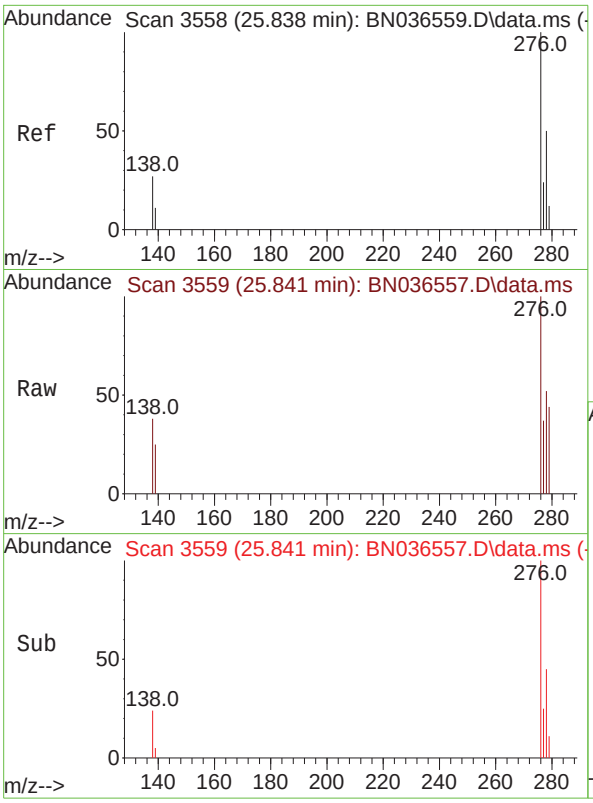


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

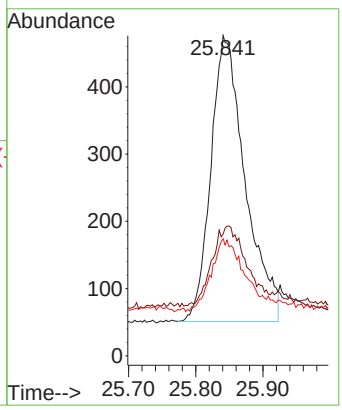




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:276 Resp: 151

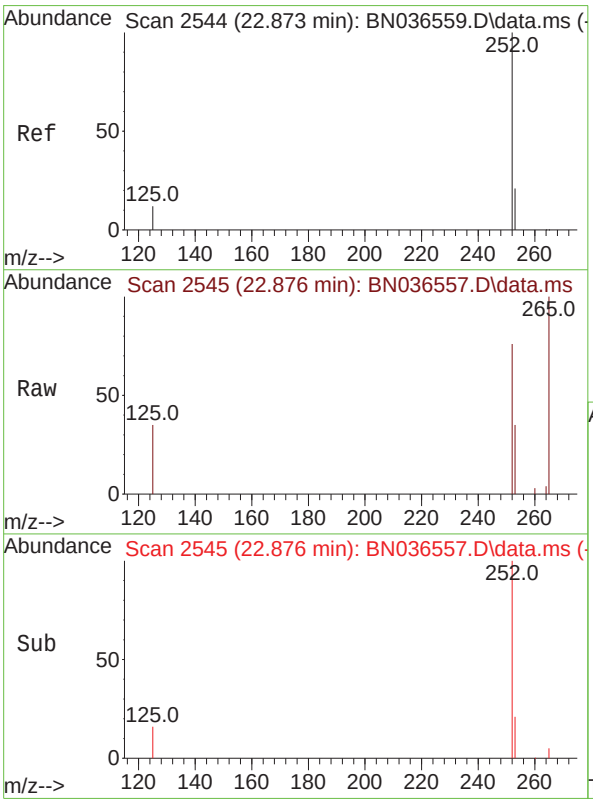
Ion	Ratio	Lower	Upper
276	100		
138	27.6	23.4	35.2
277	24.2	20.0	30.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

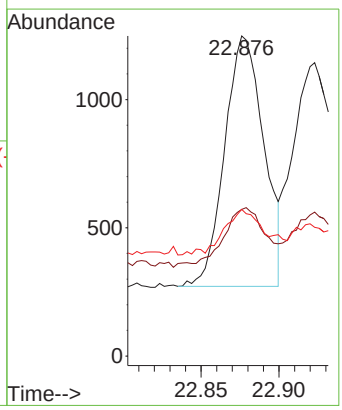
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

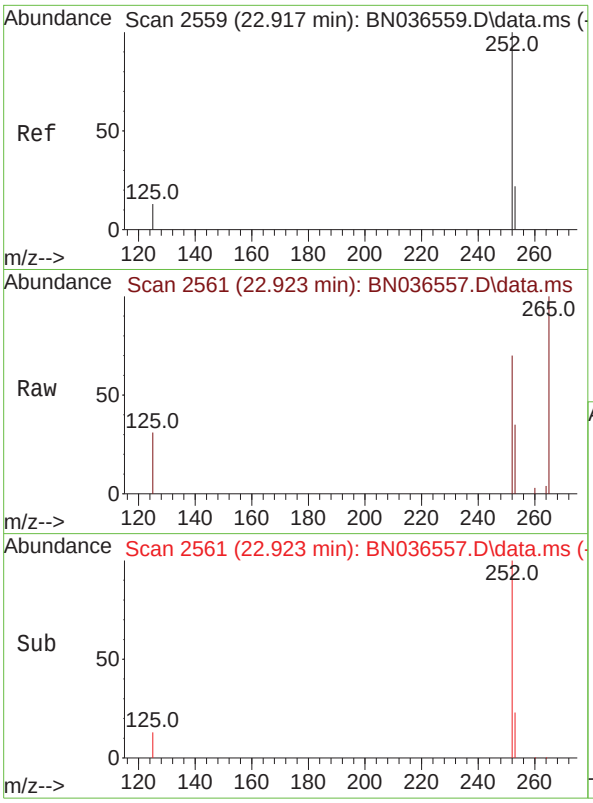


#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2545
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

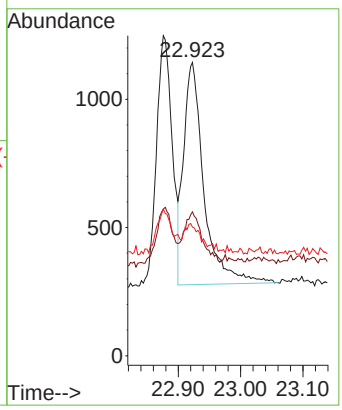
Tgt Ion:252 Resp: 195

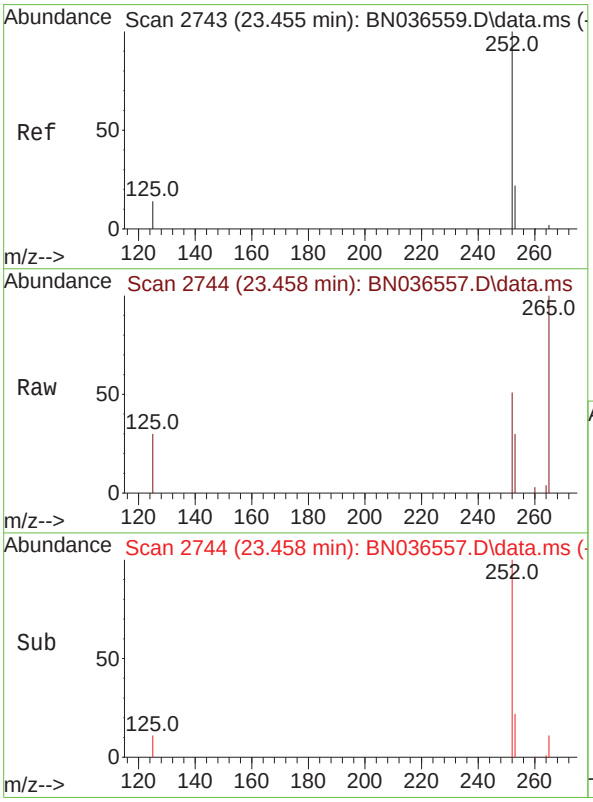
Ion	Ratio	Lower	Upper
252	100		
253	49.0	24.6	36.8#
125	43.9	17.8	26.8#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

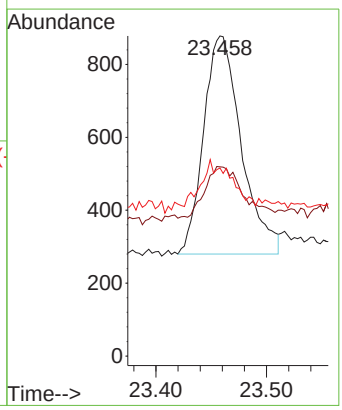


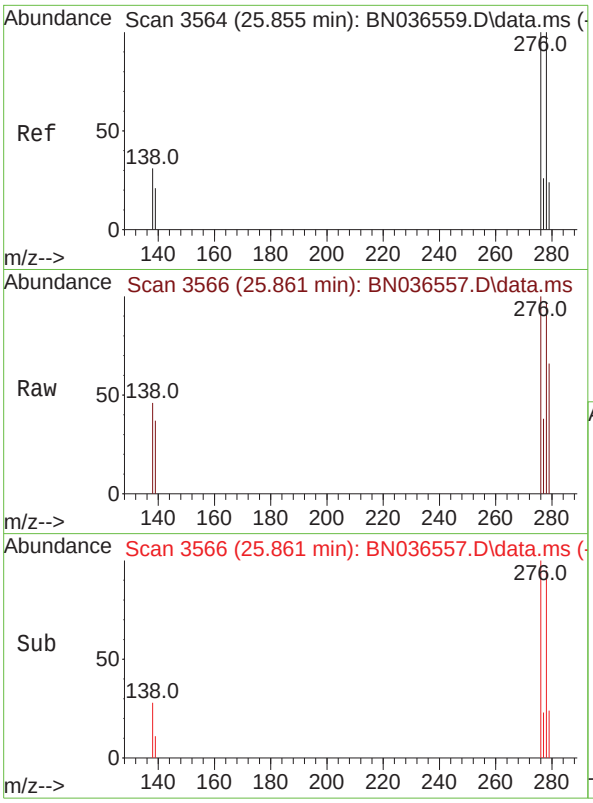


#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2744
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#

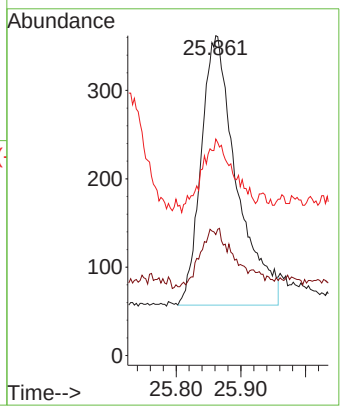




#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:278 Resp: 116

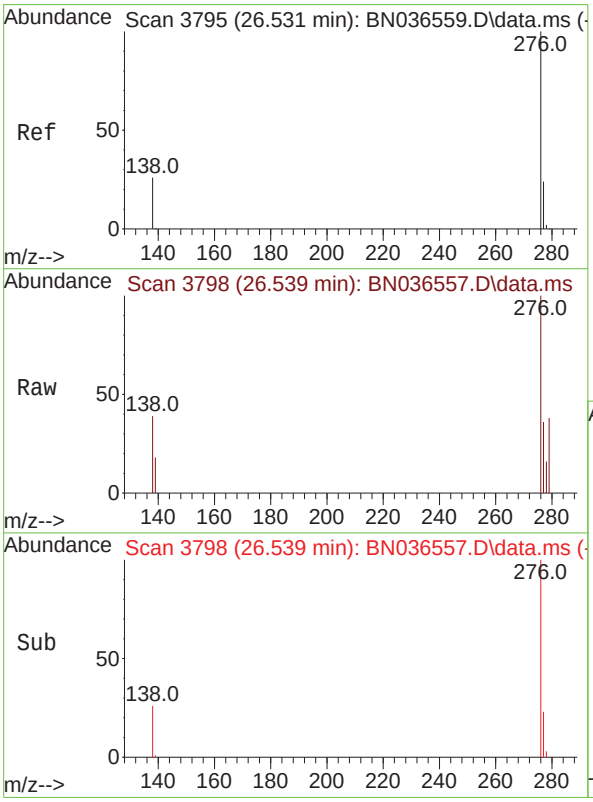
Ion	Ratio	Lower	Upper
278	100		
139	37.8	20.8	31.2#
279	67.7	28.8	43.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

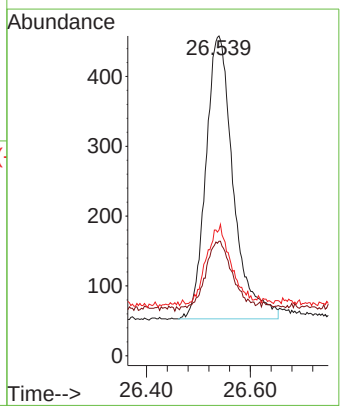
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#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

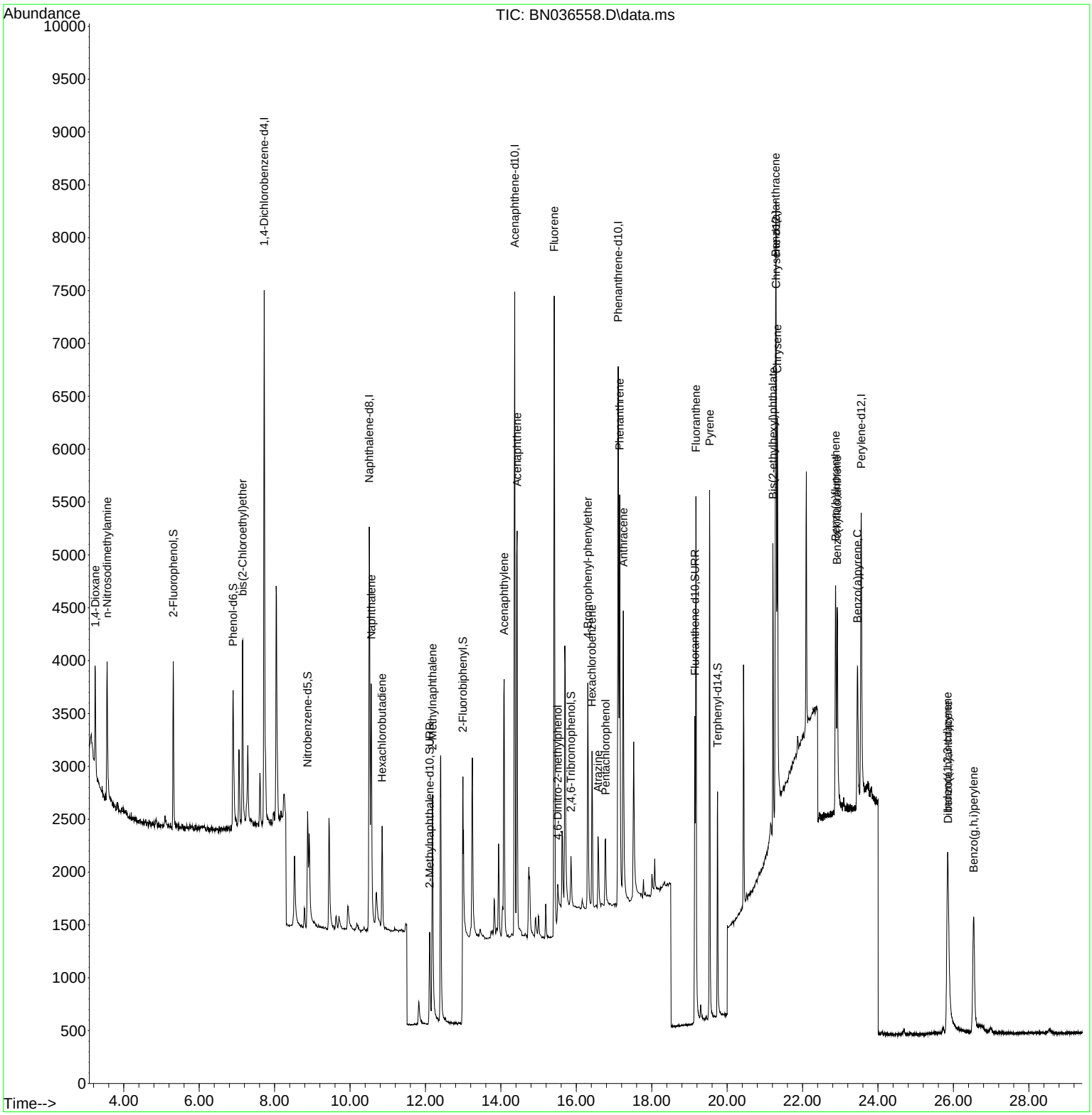
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Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

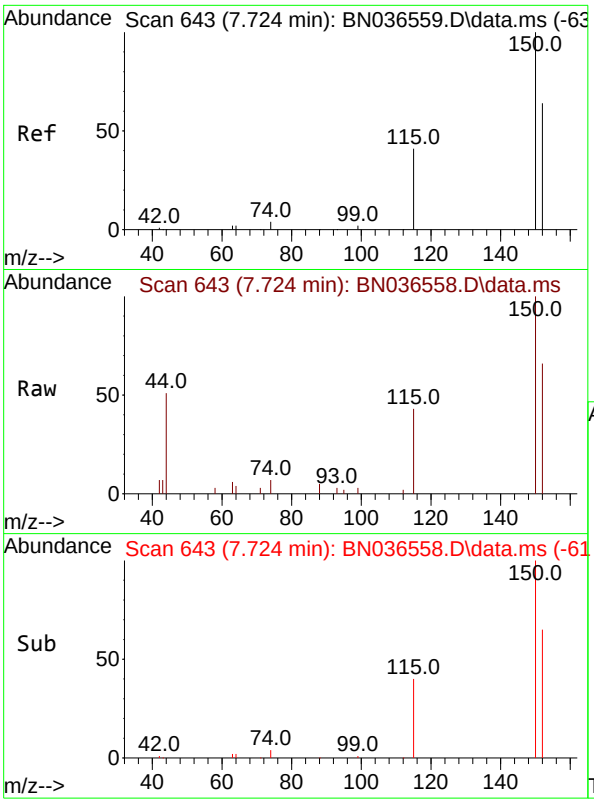
Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

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

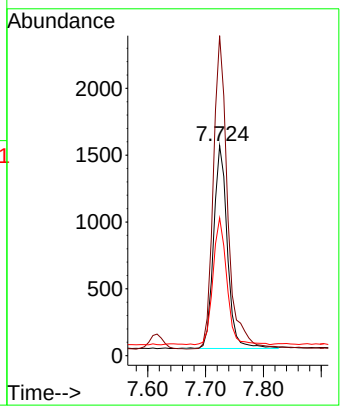




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 250

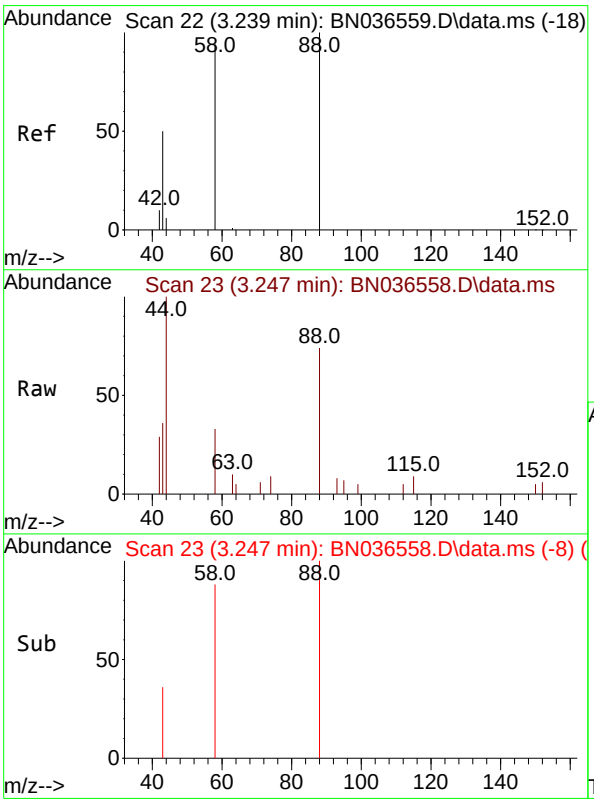
Ion	Ratio	Lower	Upper
152	100		
150	152.3	123.7	185.5
115	65.5	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

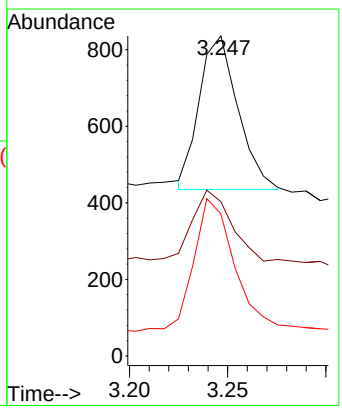
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

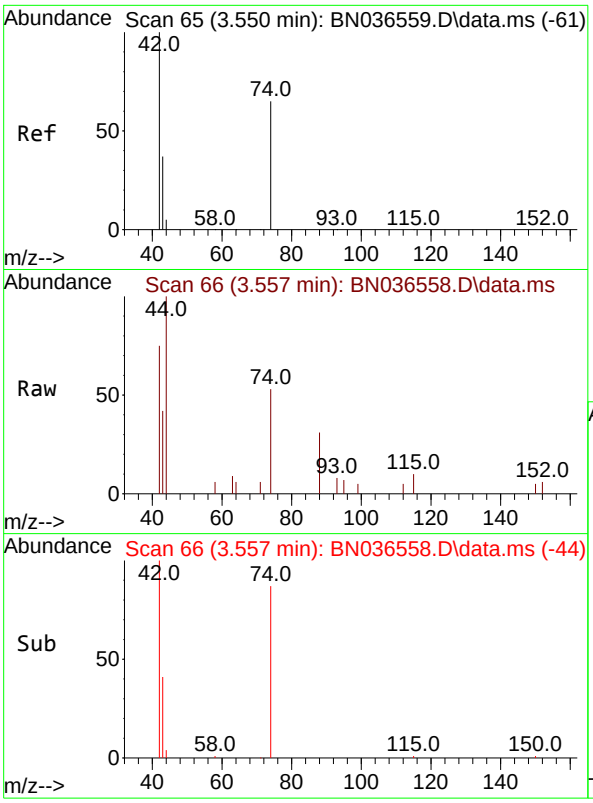


#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

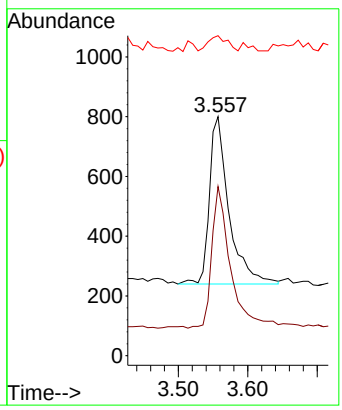




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 42 Resp: 109

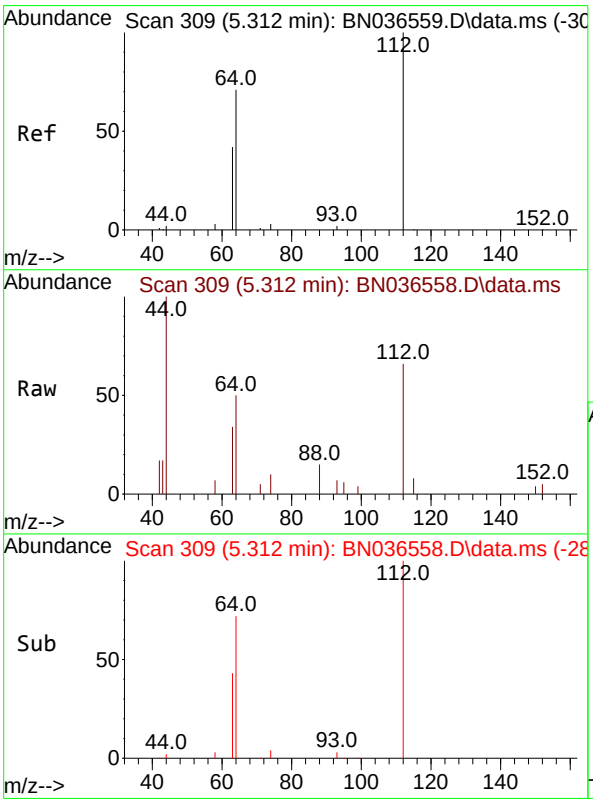
Ion	Ratio	Lower	Upper
42	100		
74	83.2	60.6	90.8
44	8.5	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

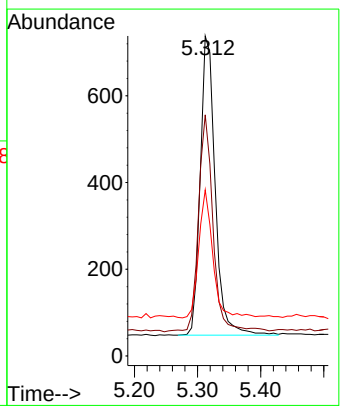
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

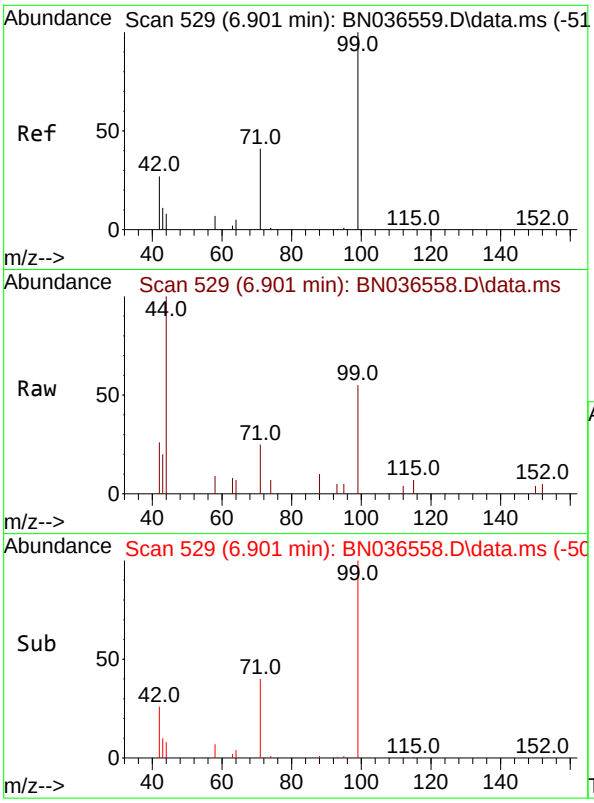


#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

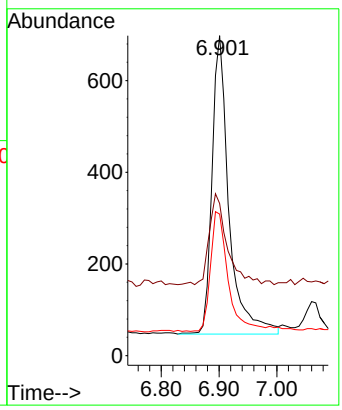




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 99 Resp: 132

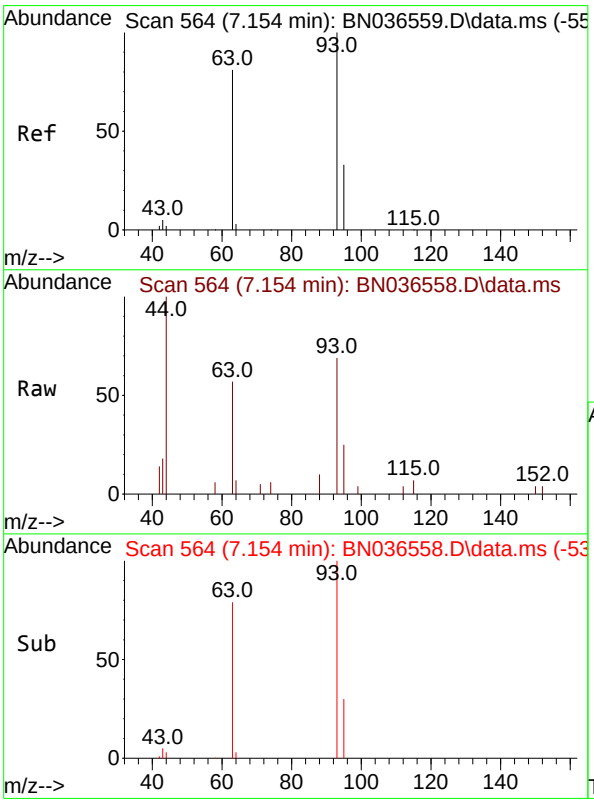
Ion	Ratio	Lower	Upper
99	100		
42	32.7	26.5	39.7
71	41.3	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

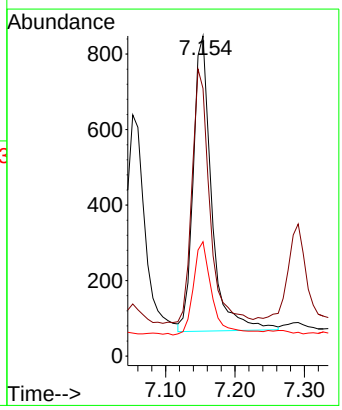
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

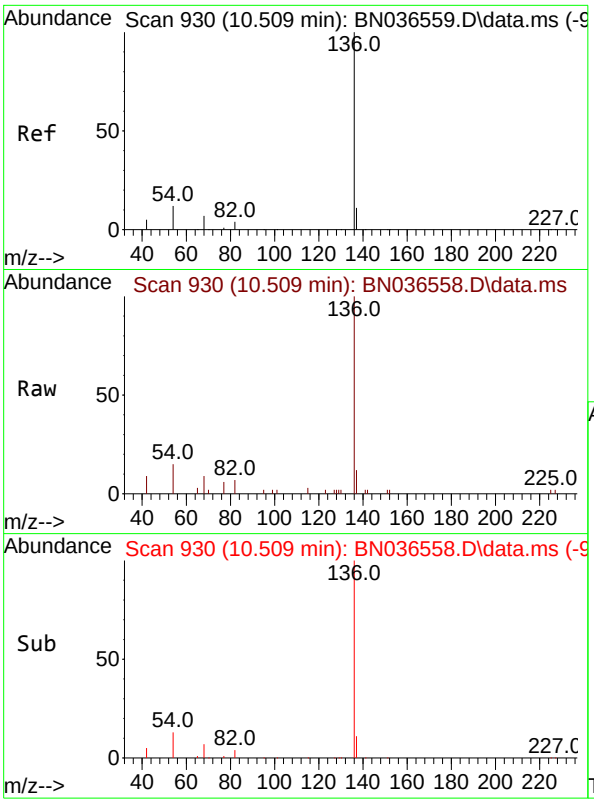


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

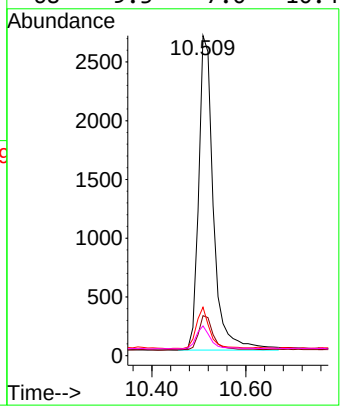




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:136 Resp: 584

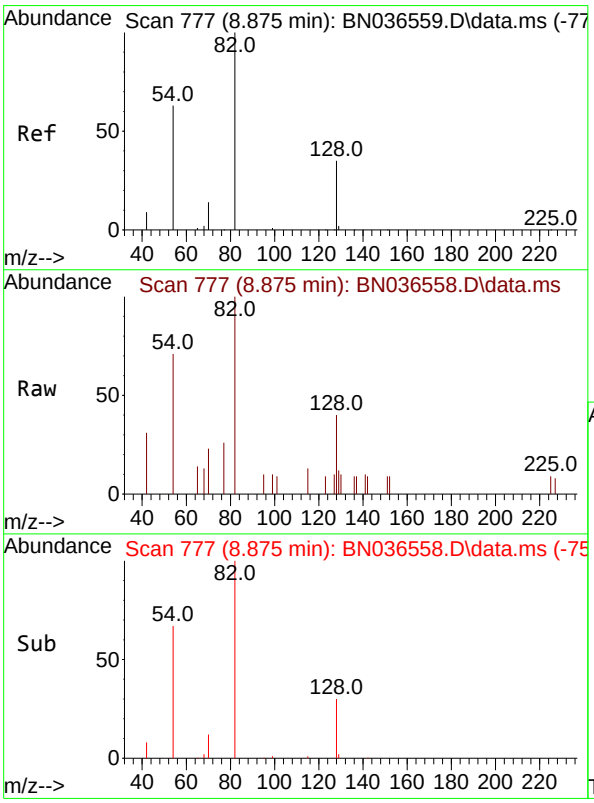
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	15.1	11.5	17.3
68	9.3	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

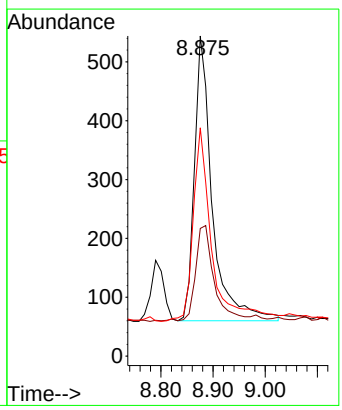
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

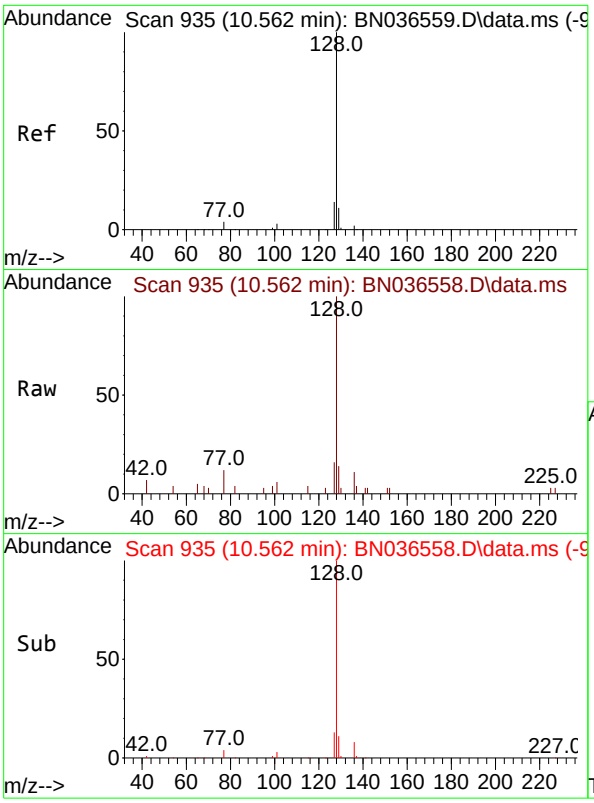


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

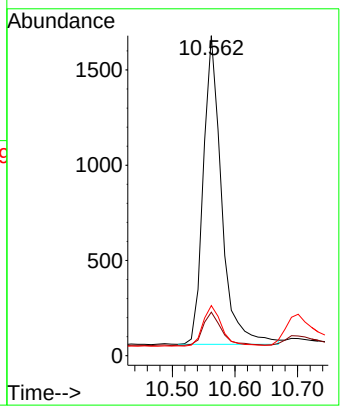




#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:128 Resp: 328

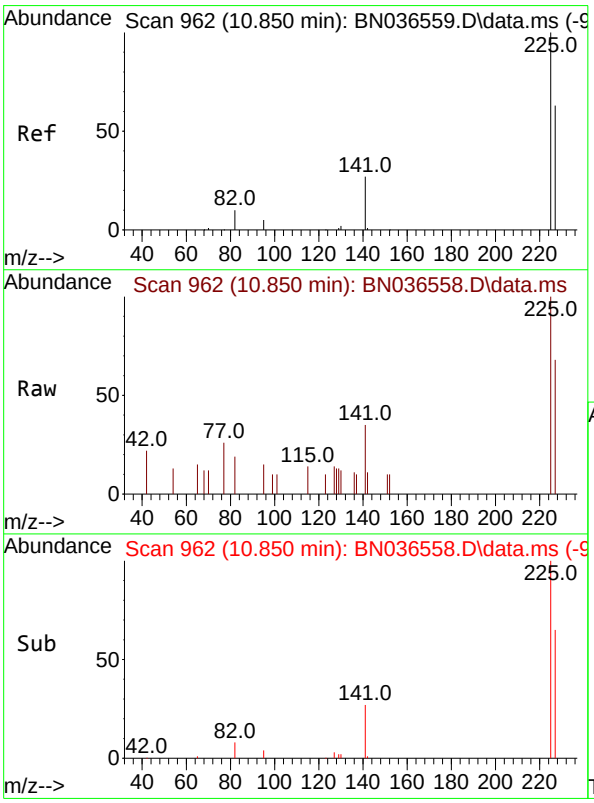
Ion	Ratio	Lower	Upper
128	100		
129	13.6	9.8	14.6
127	15.7	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

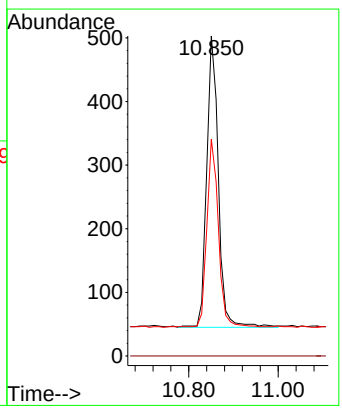
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

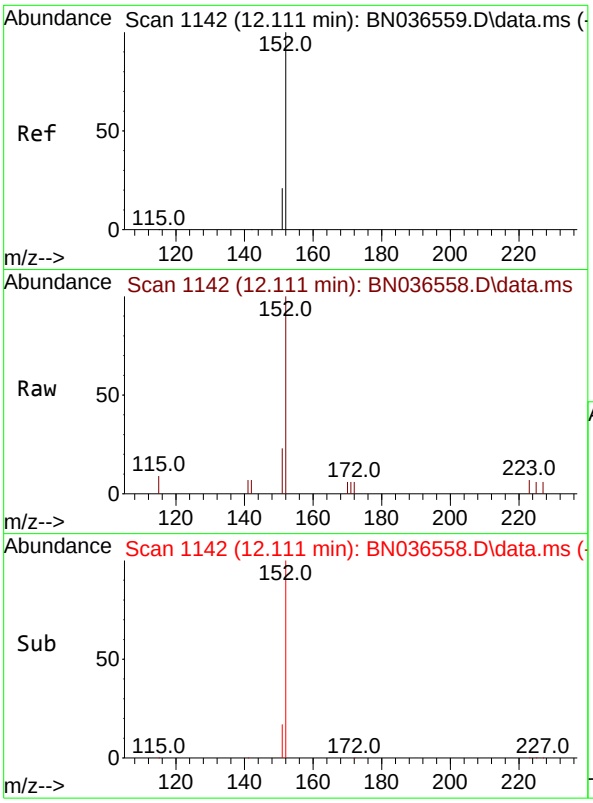


#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

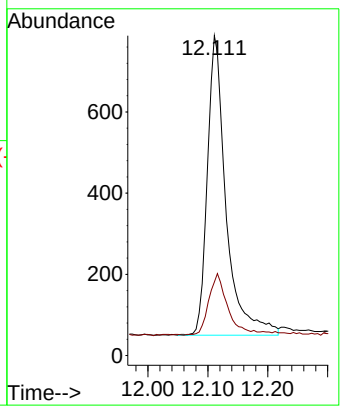




#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:152 Resp: 160

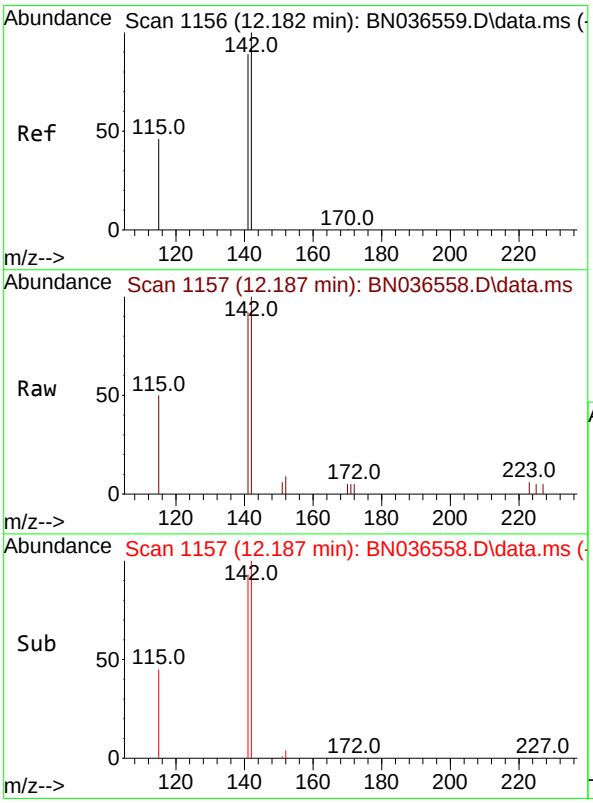
Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

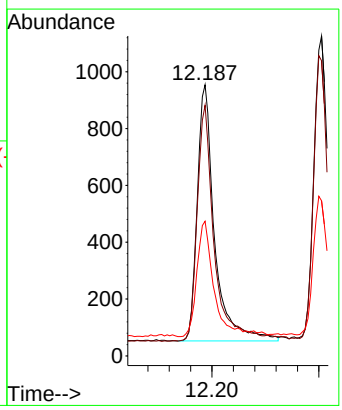
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

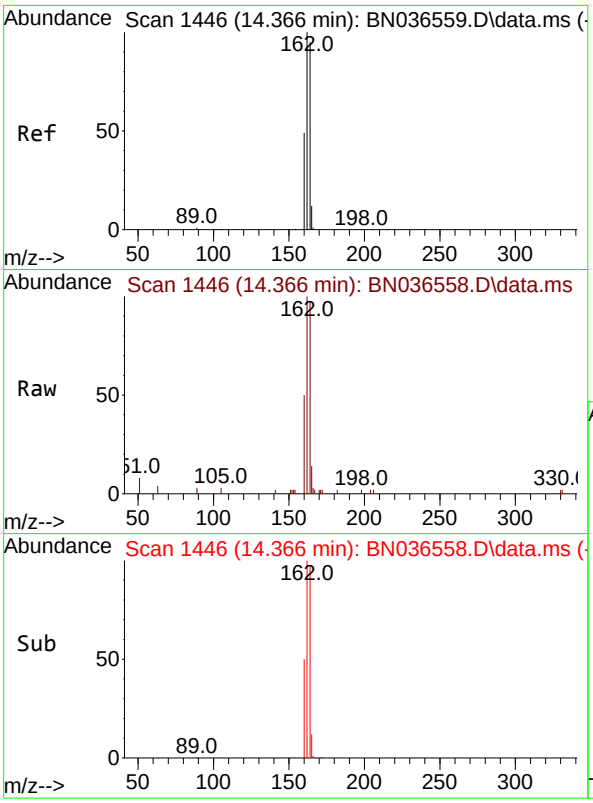


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

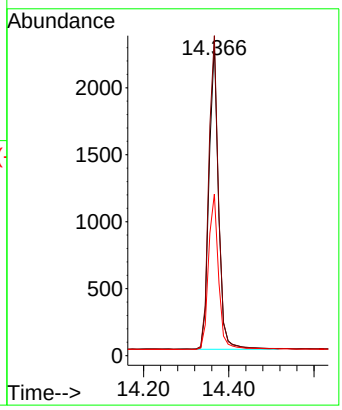




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:164 Resp: 351

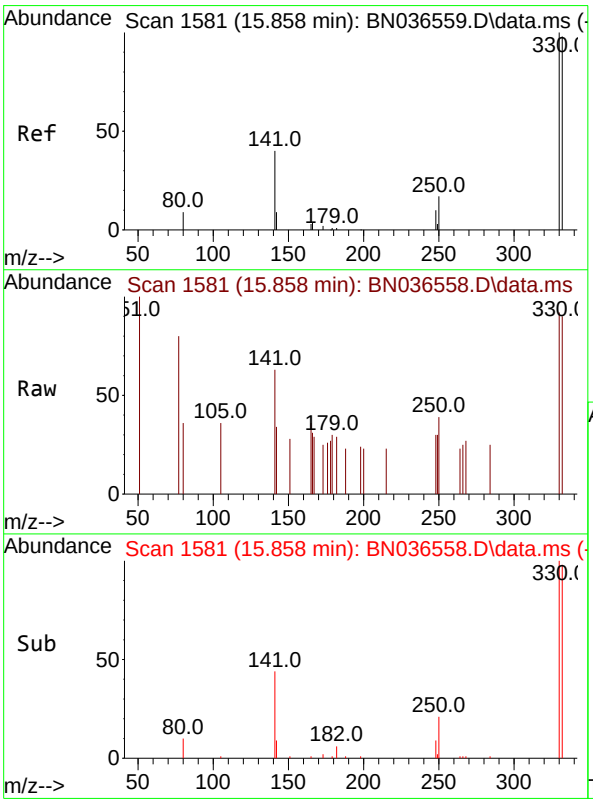
Ion	Ratio	Lower	Upper
164	100		
162	102.6	84.2	126.2
160	51.8	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

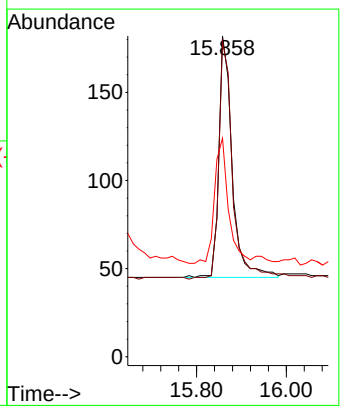
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

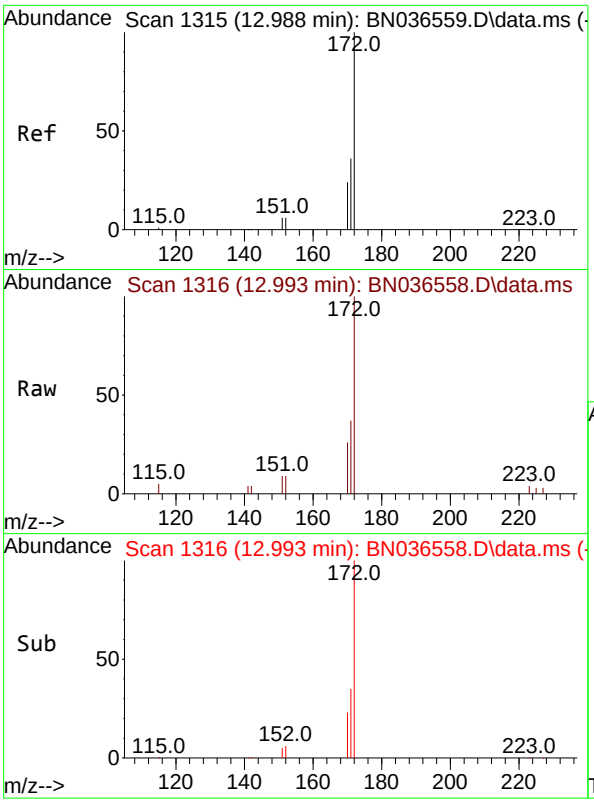


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

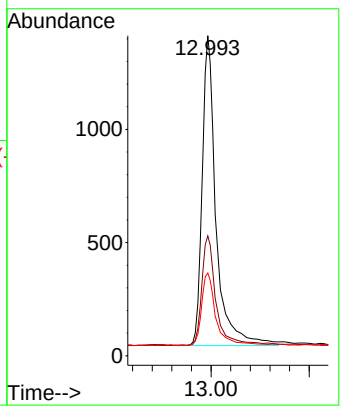




#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:172 Resp: 348

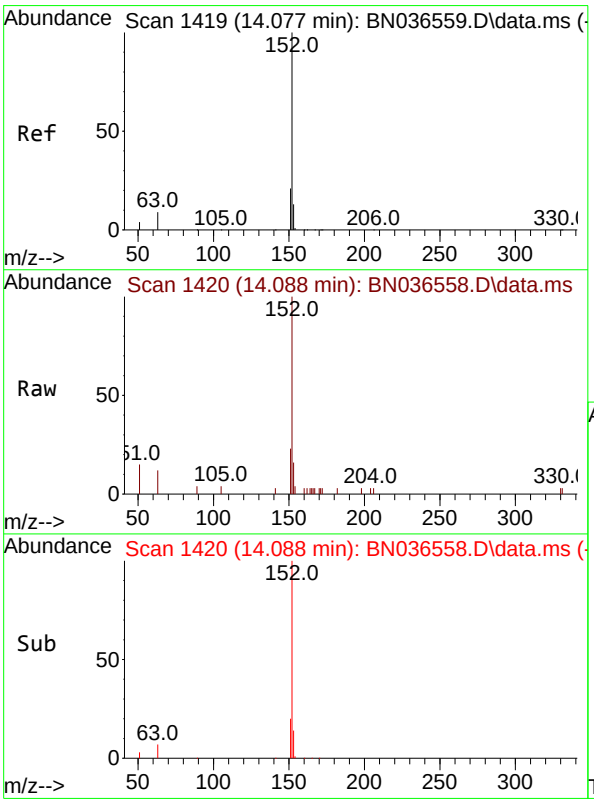
Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.9	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

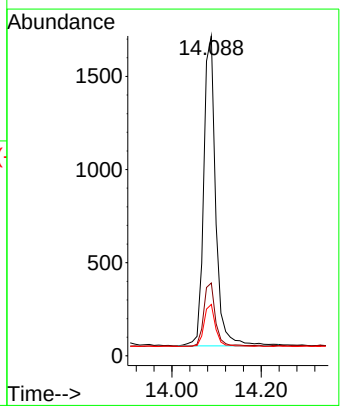
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

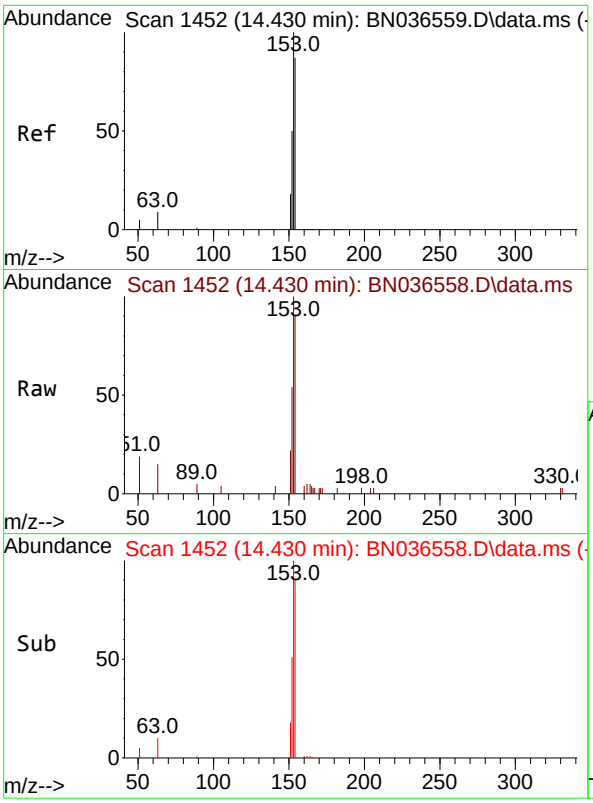


#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

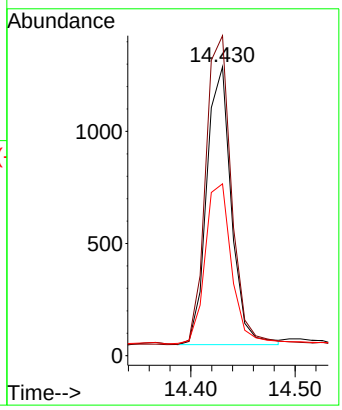




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:154 Resp: 203

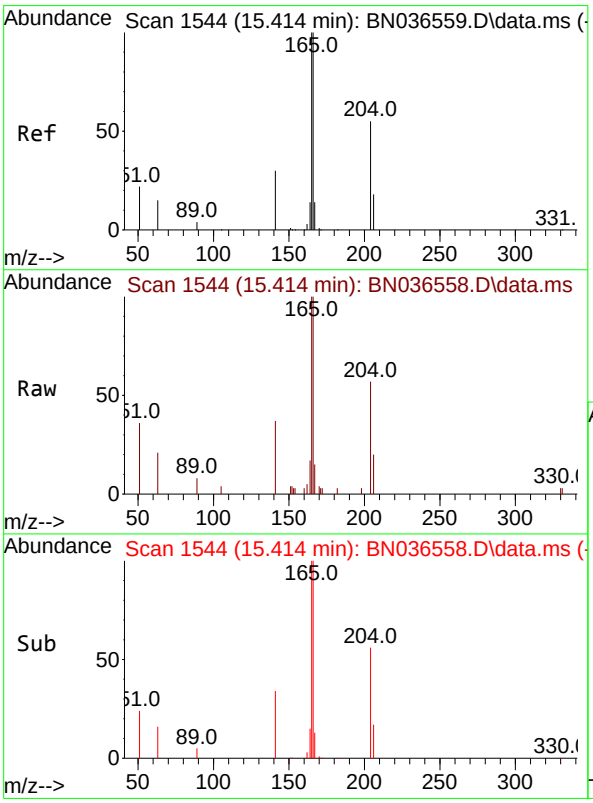
Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.1	141.1
152	63.1	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

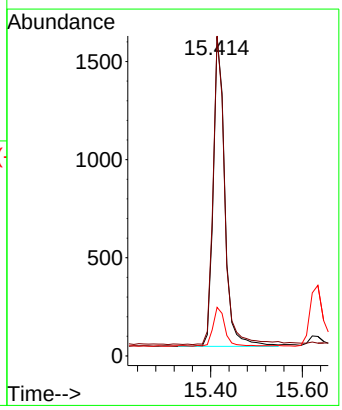
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

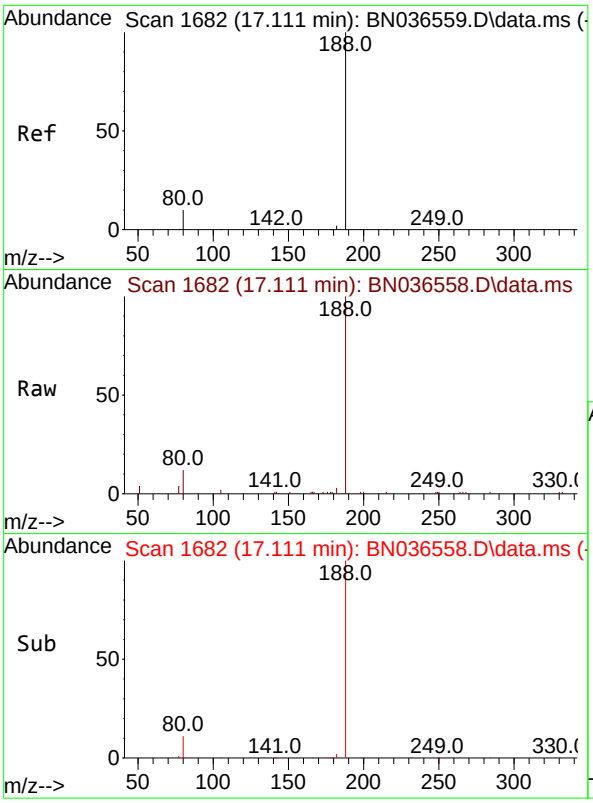


#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

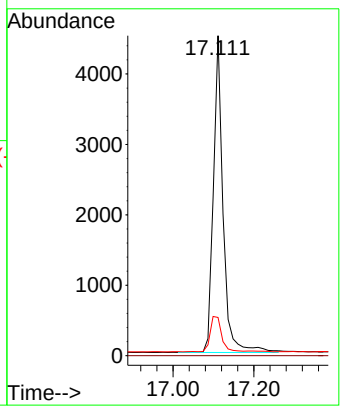




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:188 Resp: 750(

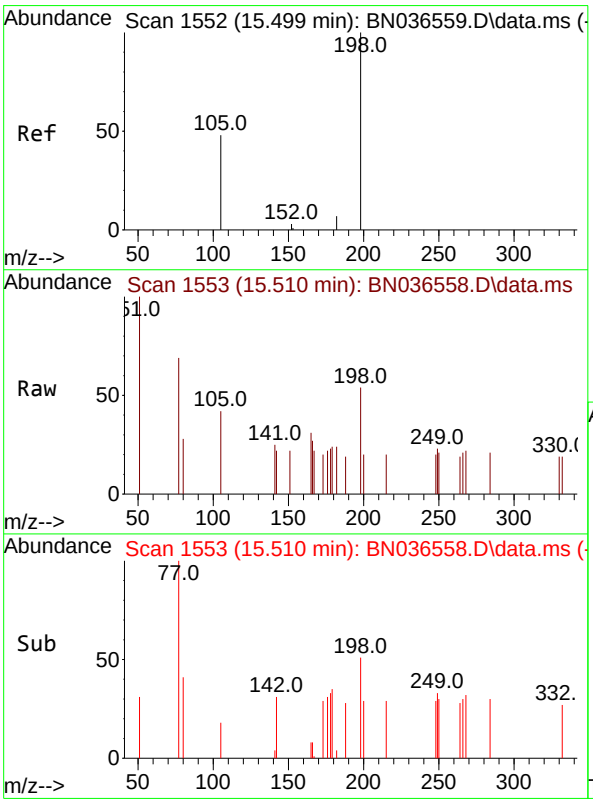
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

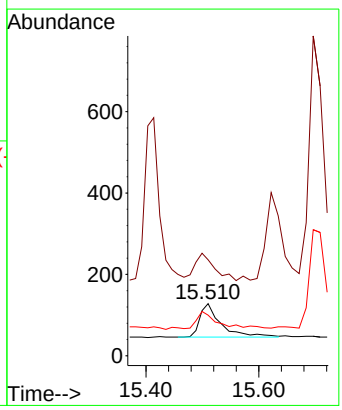
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

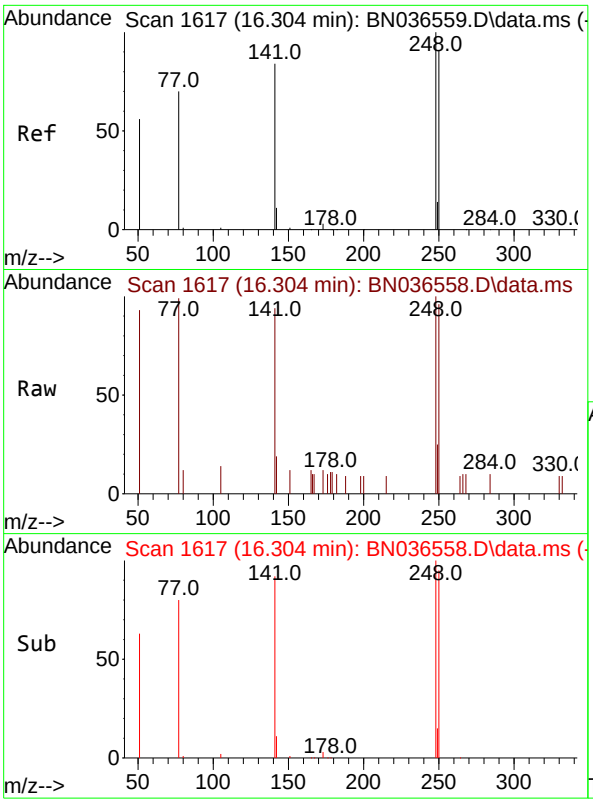


#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

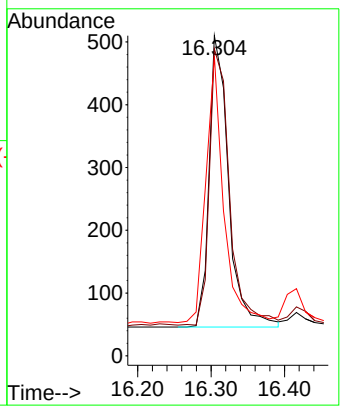
Tgt Ion:248 Resp: 85

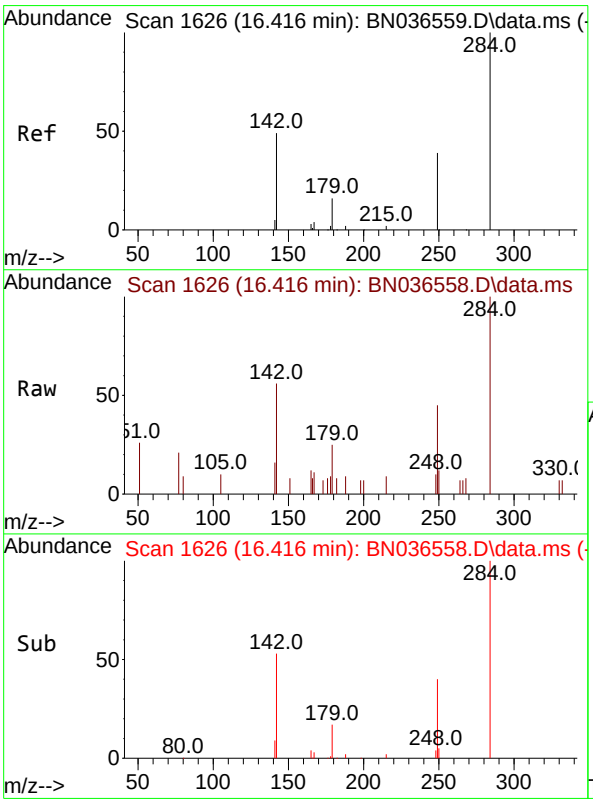
Ion	Ratio	Lower	Upper
248	100		
250	95.9	73.0	109.6
141	93.7	68.6	103.0

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

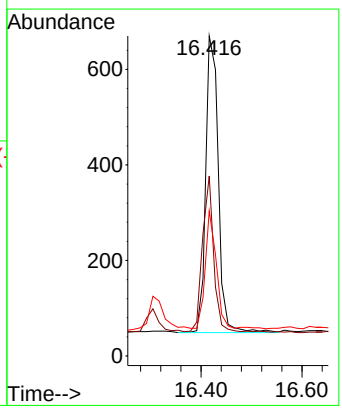


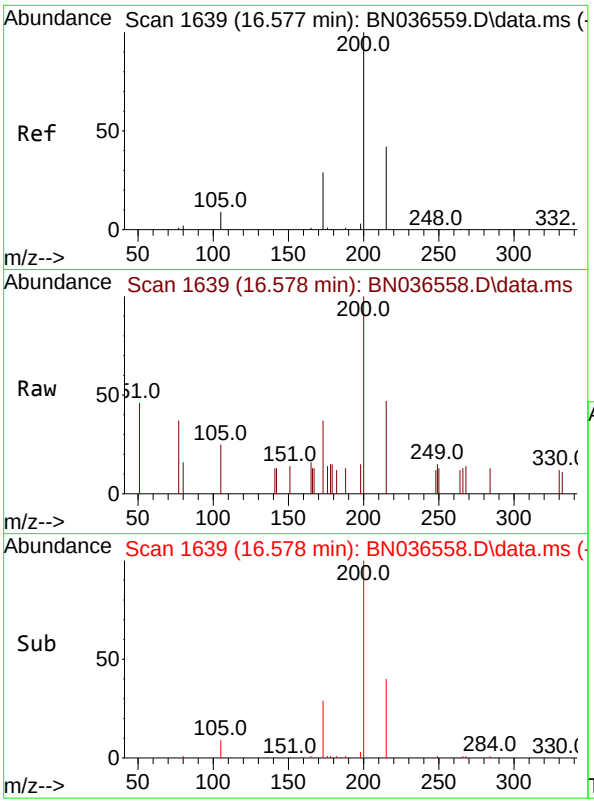


#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

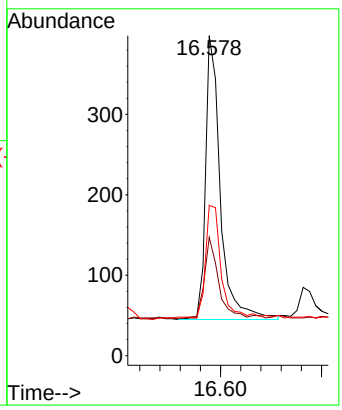




#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:200 Resp: 71(

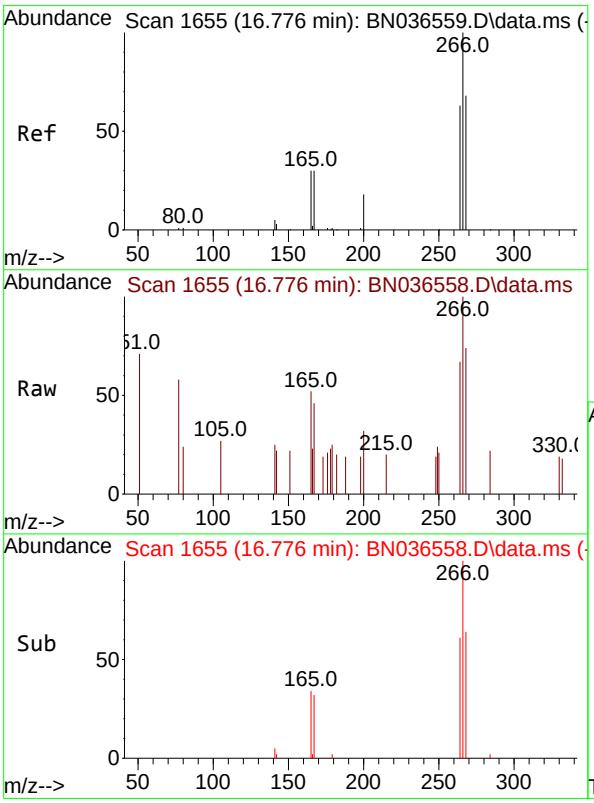
Ion	Ratio	Lower	Upper
200	100		
173	36.9	27.3	40.9
215	47.0	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

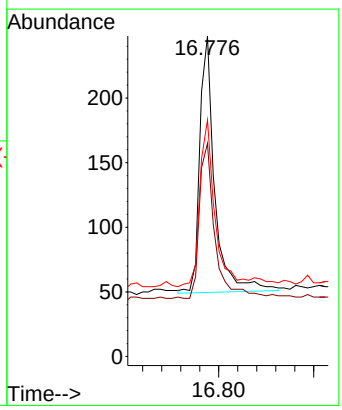
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

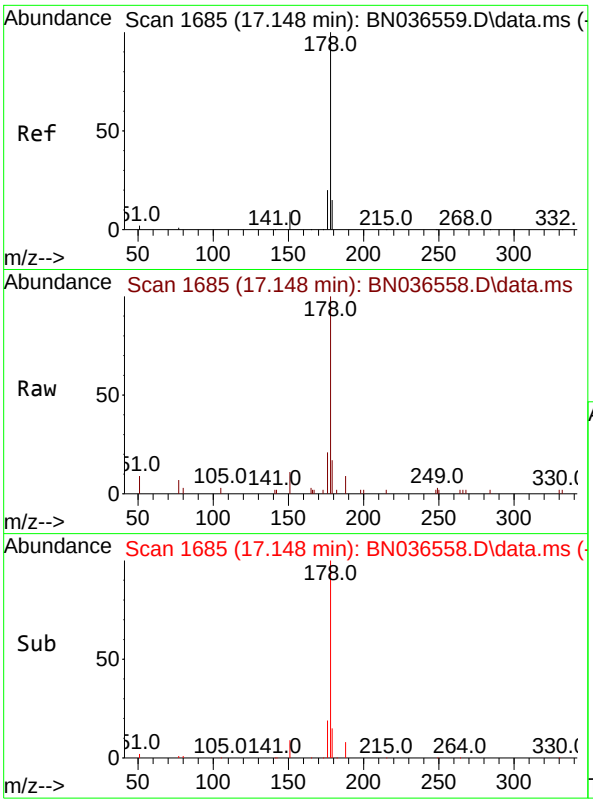


#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

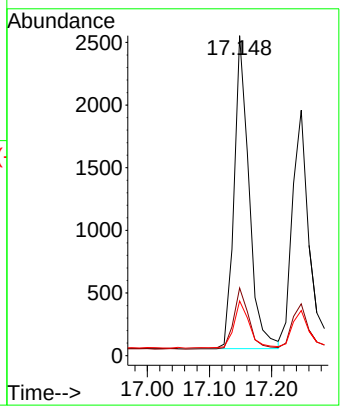




#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 417

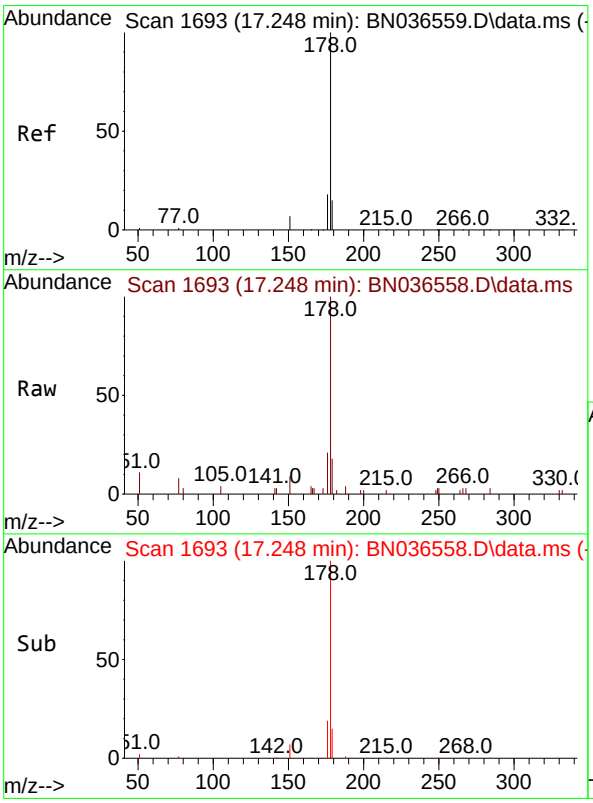
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

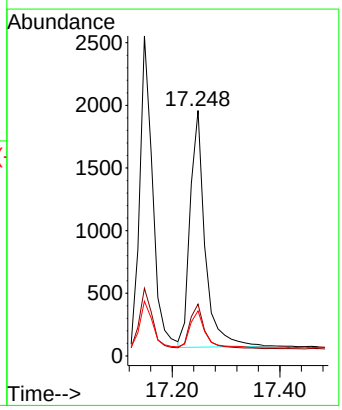
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

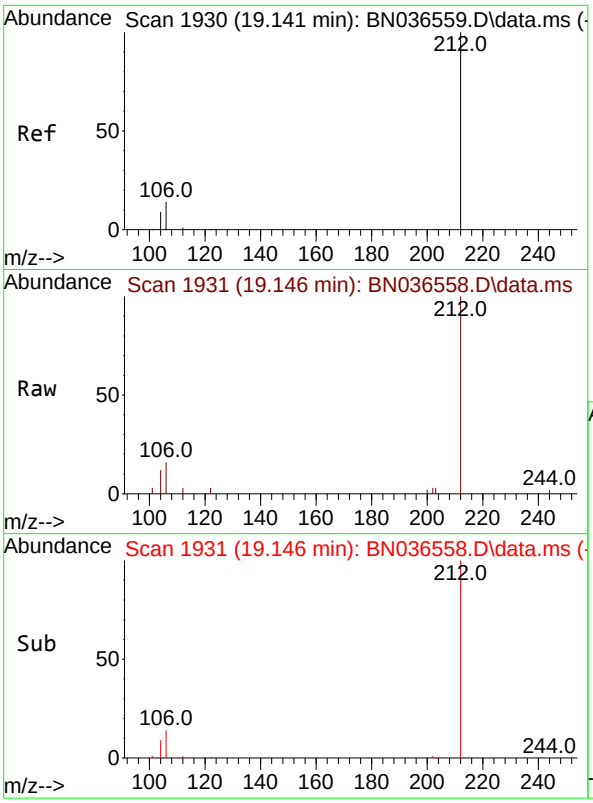


#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

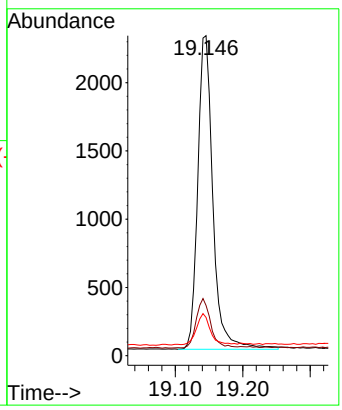
Tgt Ion:212 Resp: 358

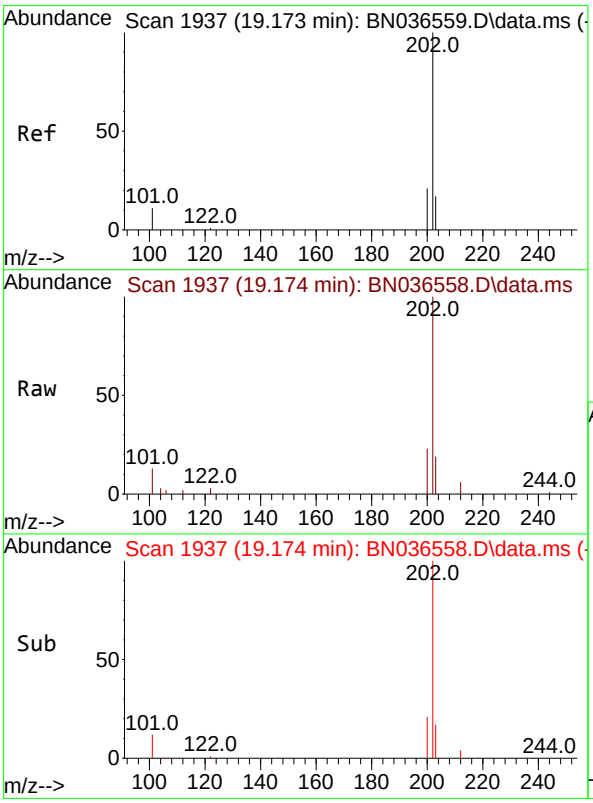
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

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

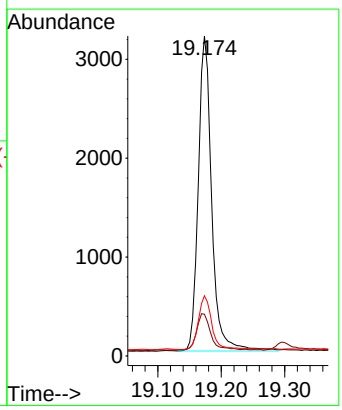


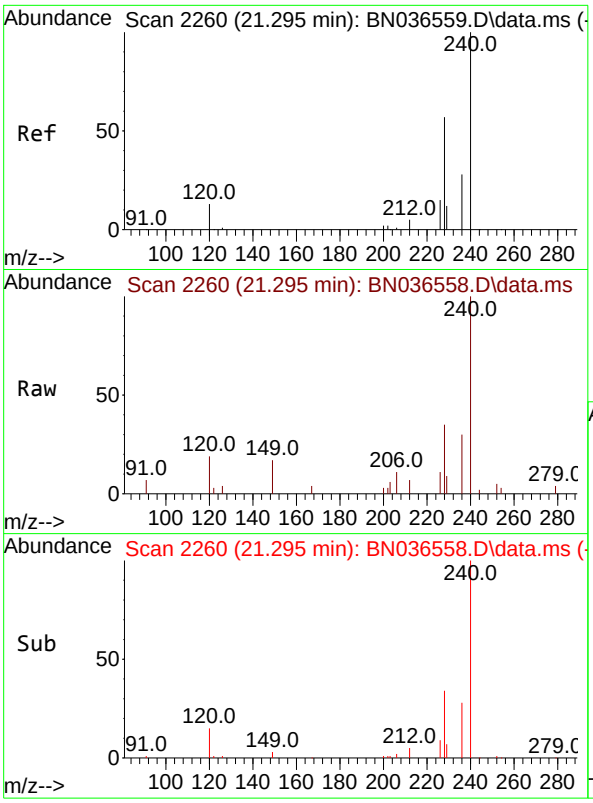


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

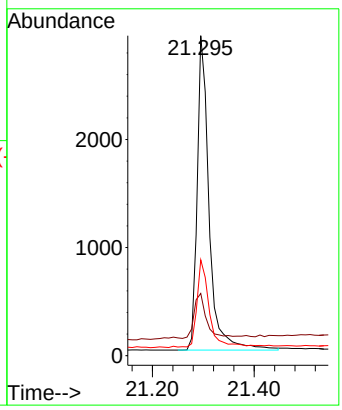
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

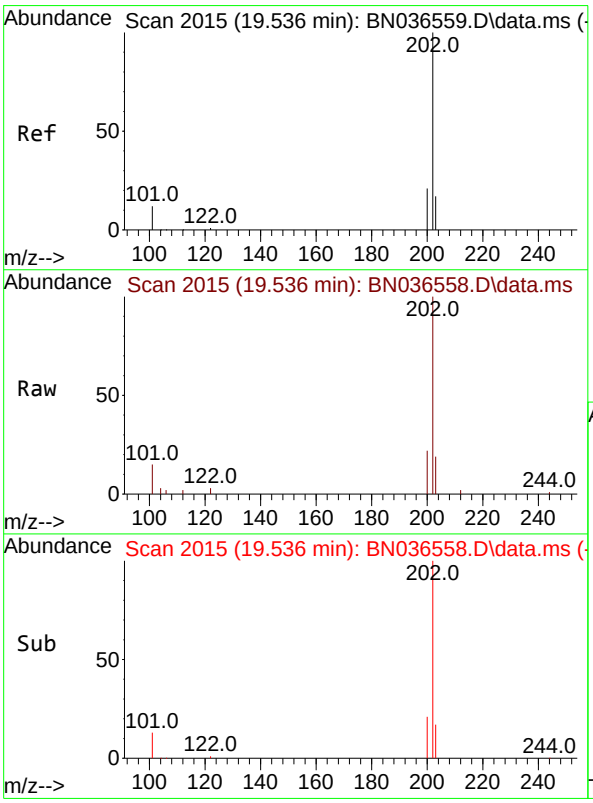
Tgt Ion:240 Resp: 473

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

Manual Integrations APPROVED

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

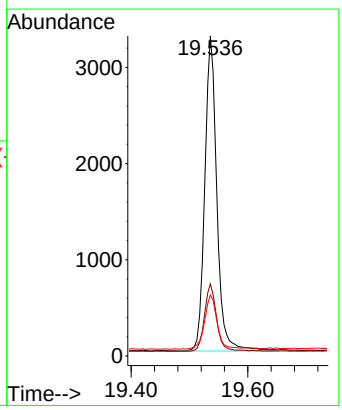


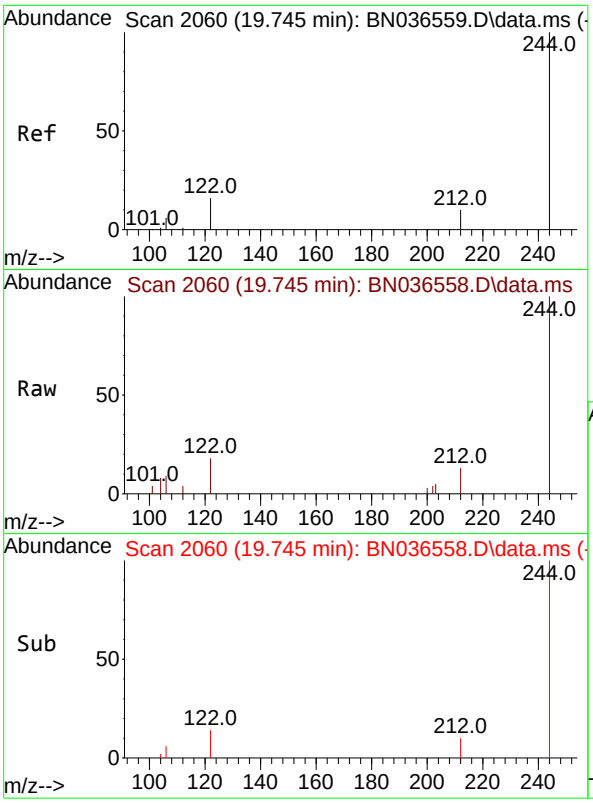


#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

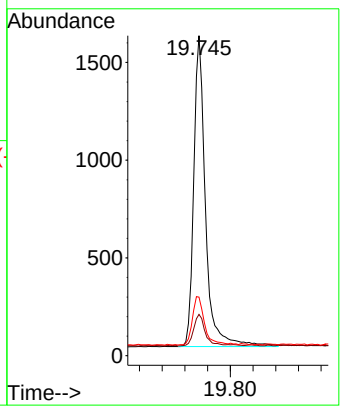




#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:244 Resp: 228

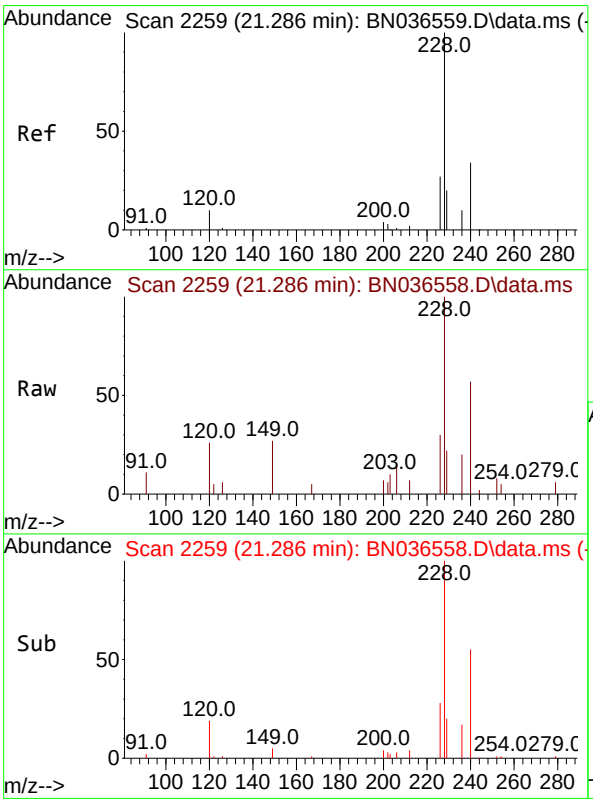
Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

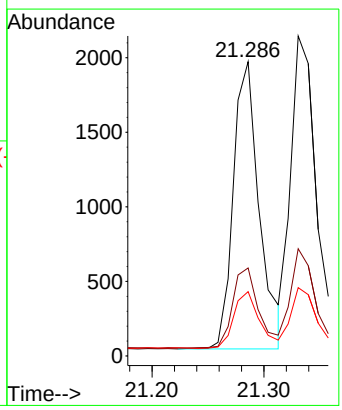
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

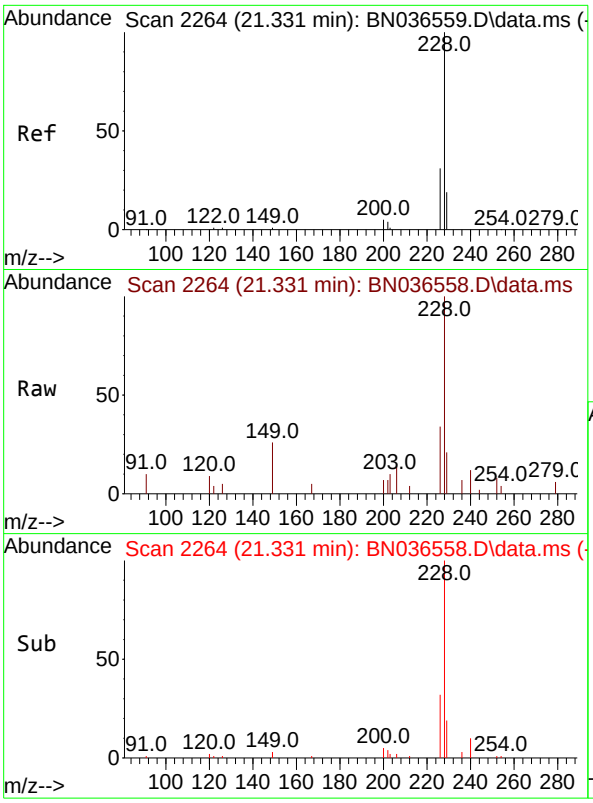


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

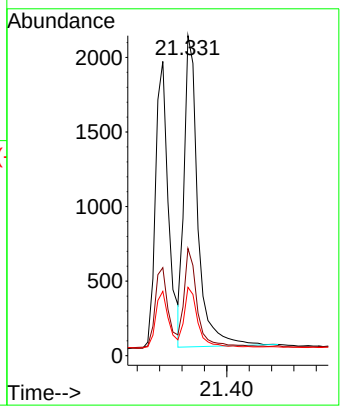




#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:228 Resp: 356

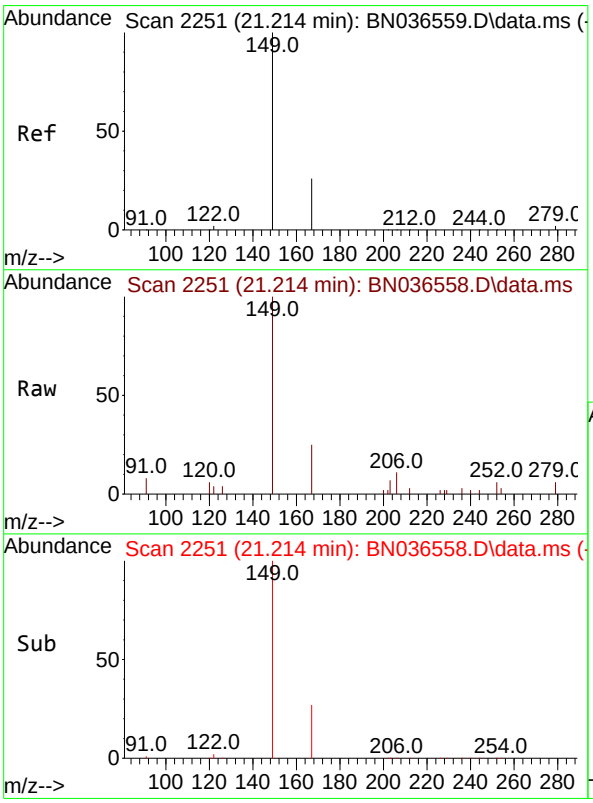
Ion	Ratio	Lower	Upper
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

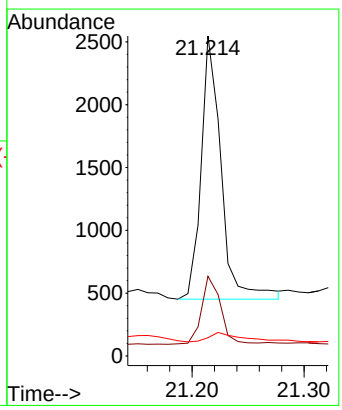
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

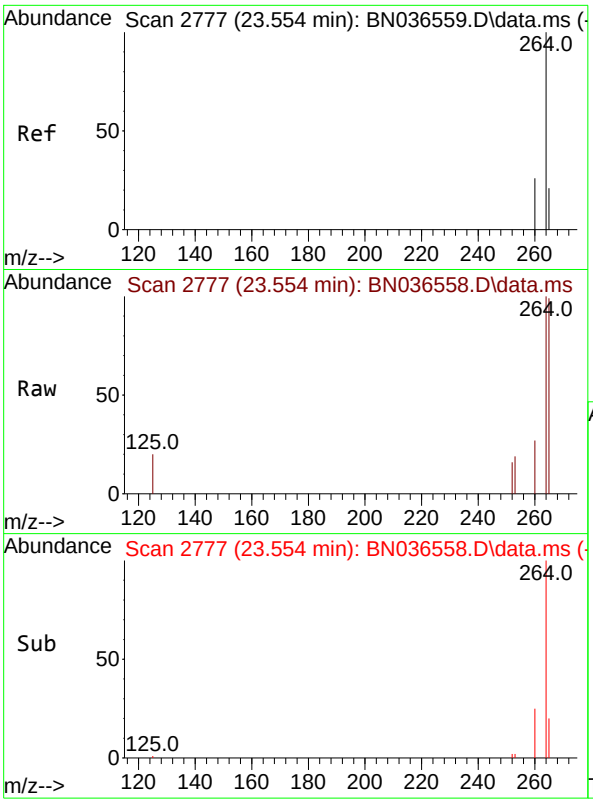


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#

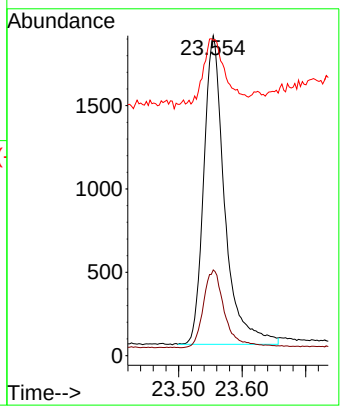




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:264 Resp: 424

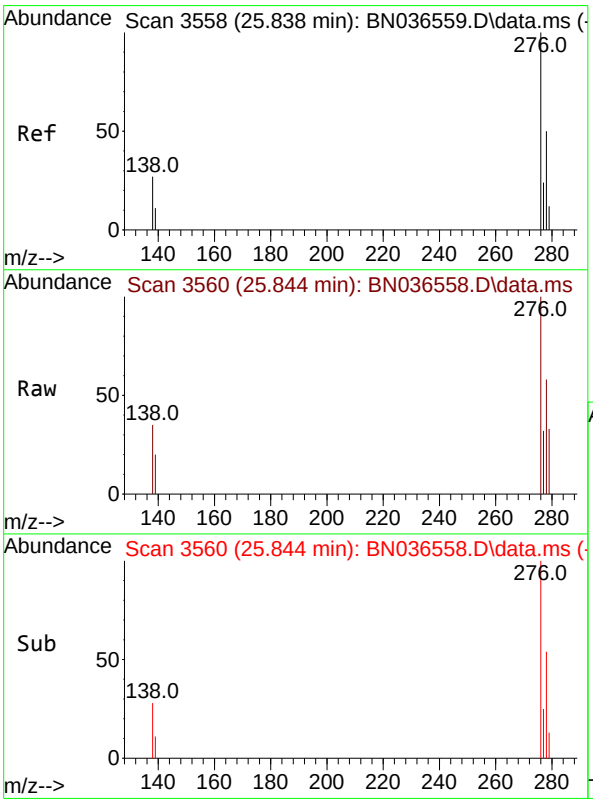
Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	98.5	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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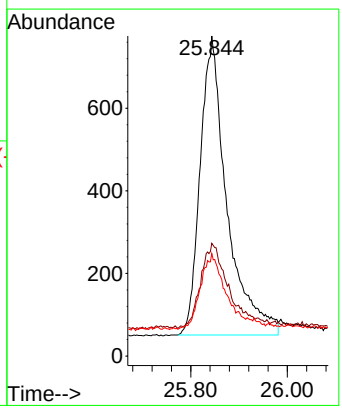
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

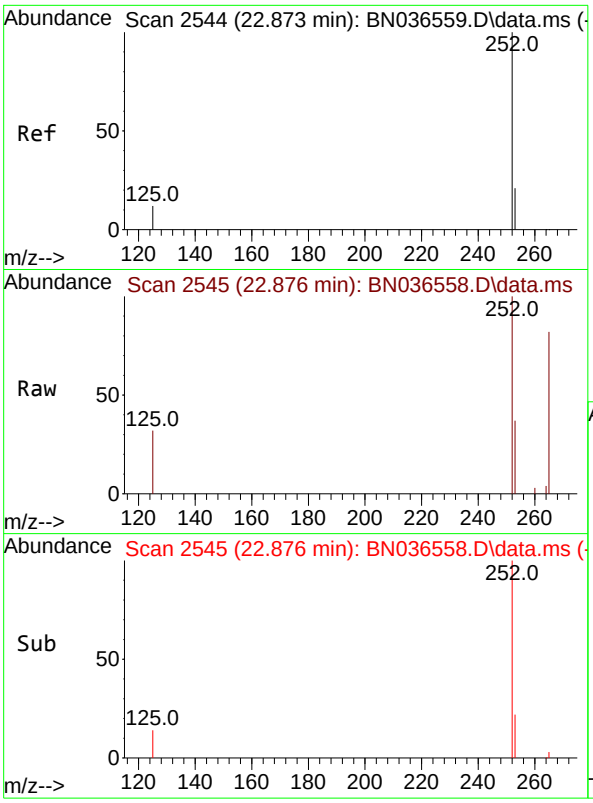


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

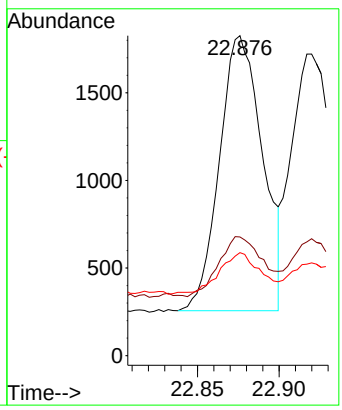
Tgt Ion:252 Resp: 288

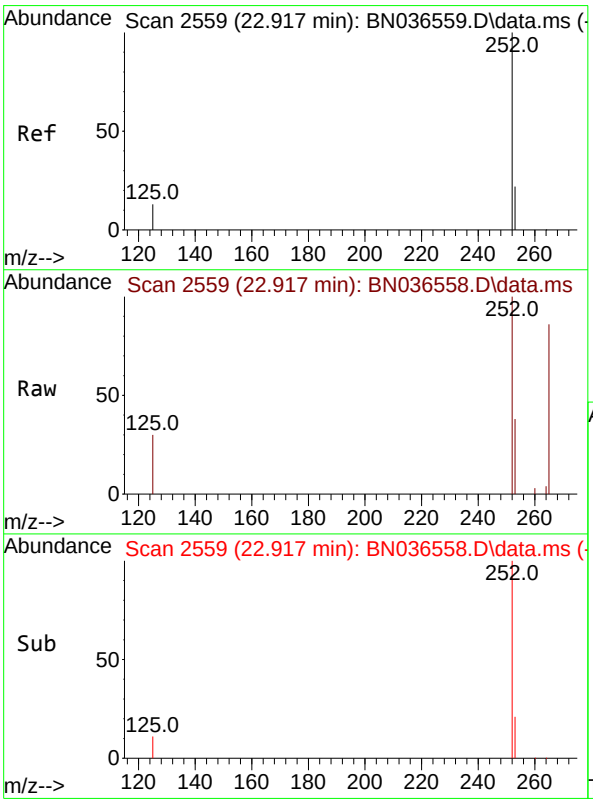
Ion	Ratio	Lower	Upper
252	100		
253	37.1	23.9	35.9#
125	32.2	17.4	26.2#

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

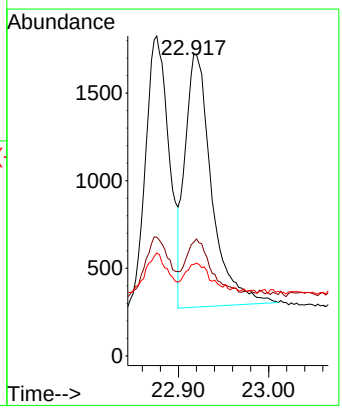


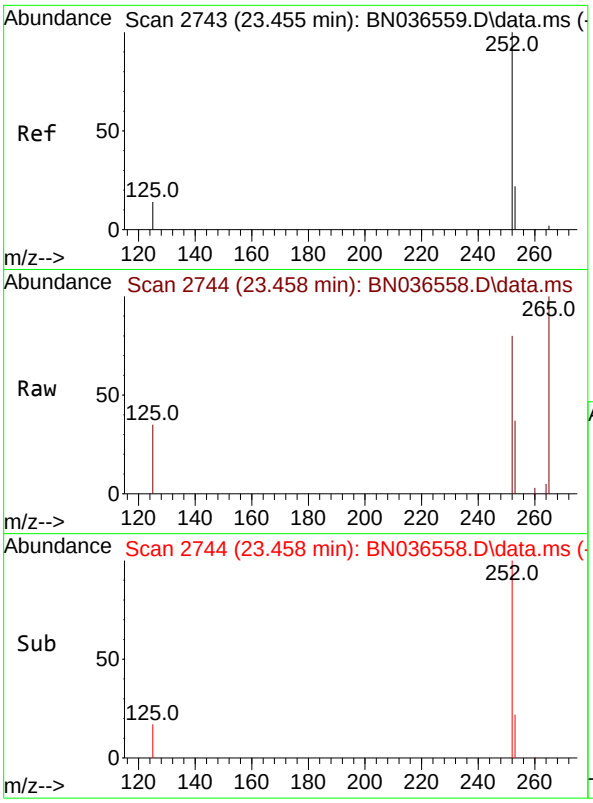


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#

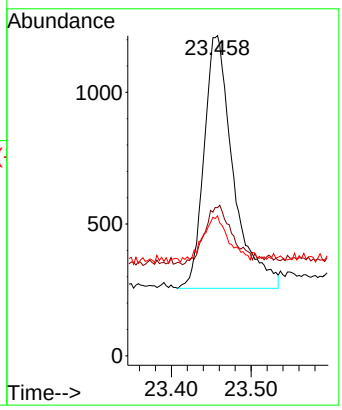




#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 244

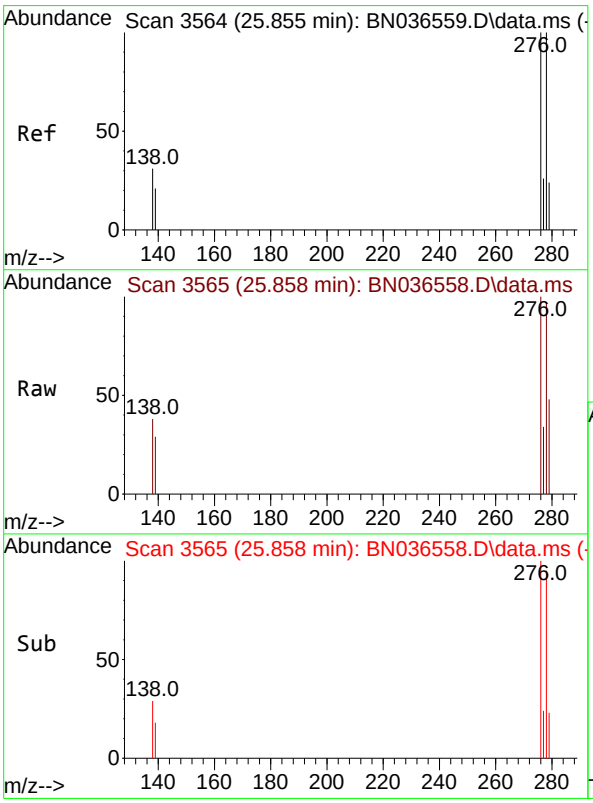
Ion	Ratio	Lower	Upper
252	100		
253	46.3	27.8	41.8#
125	43.7	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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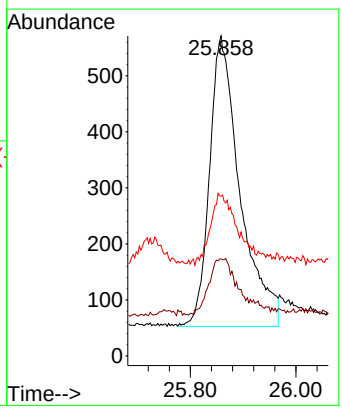
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

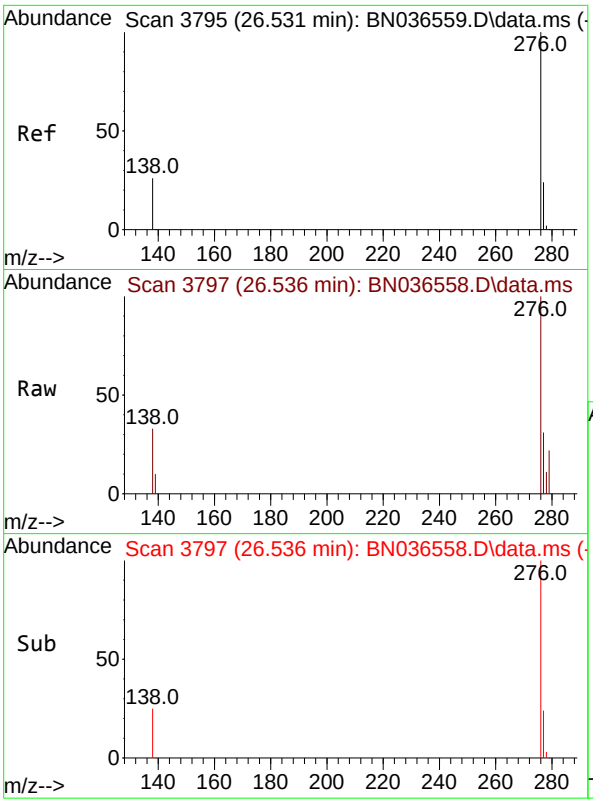


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#

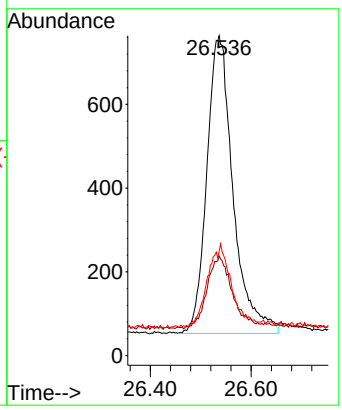




#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

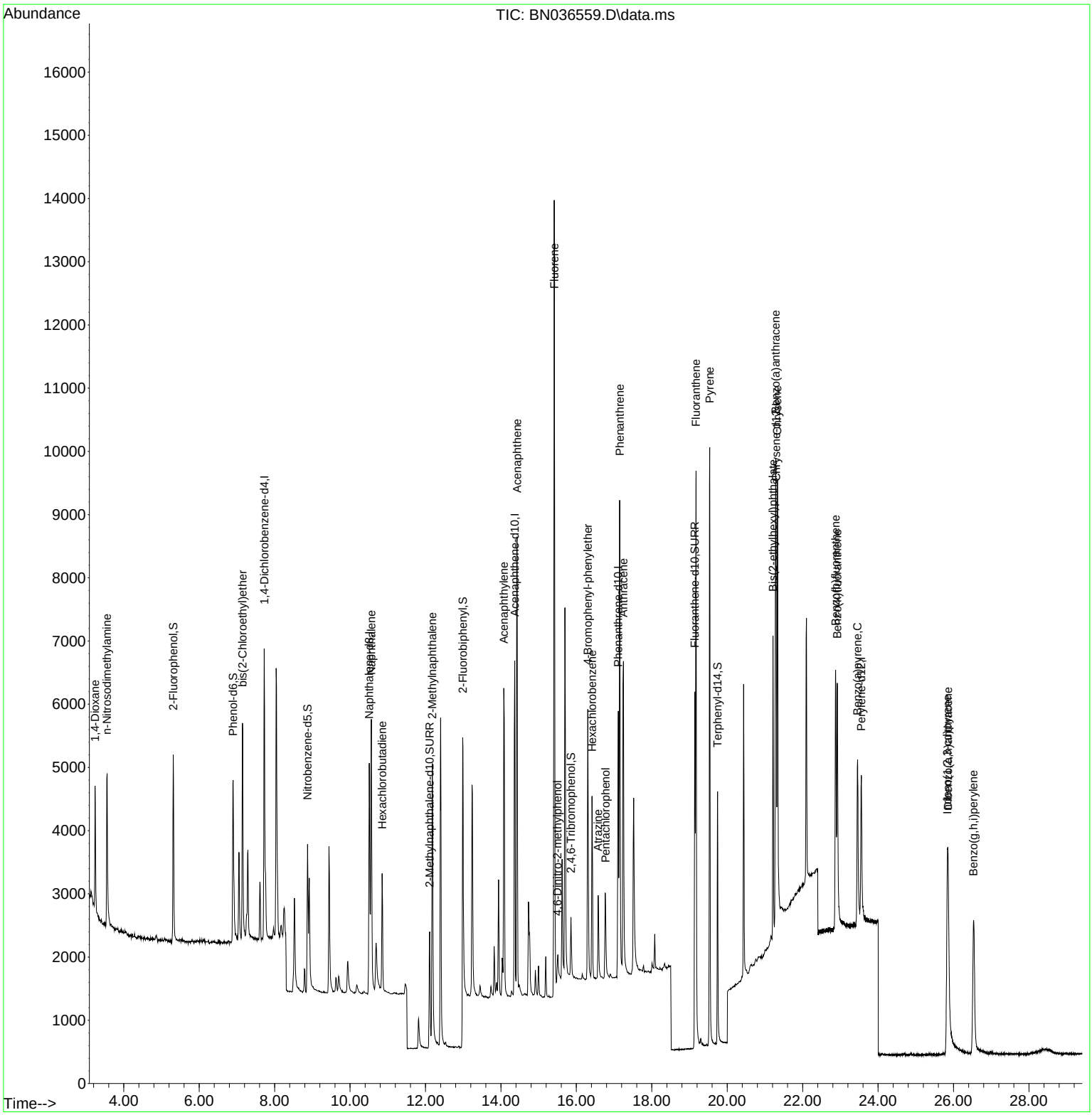
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng		0.00
29) Chrysene-d12	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

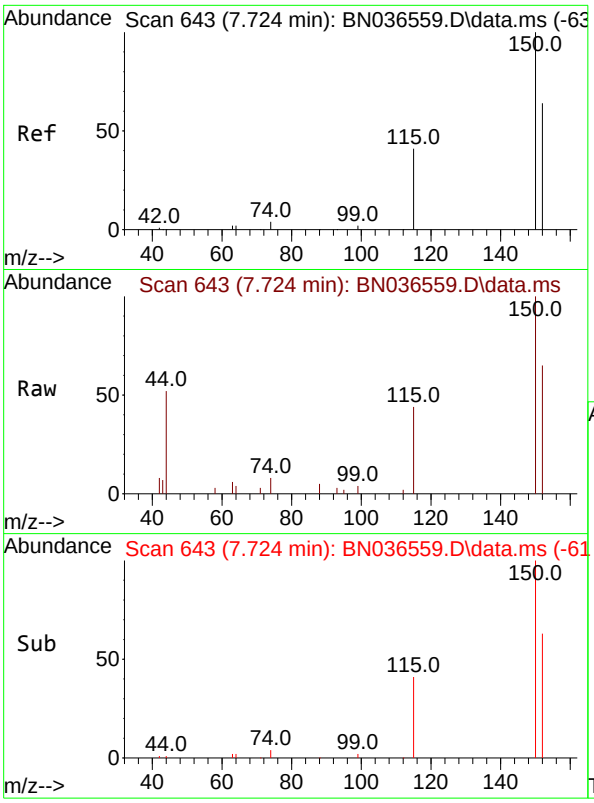
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



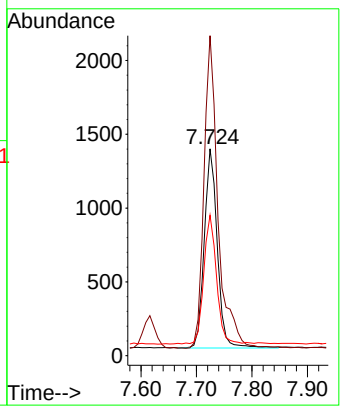


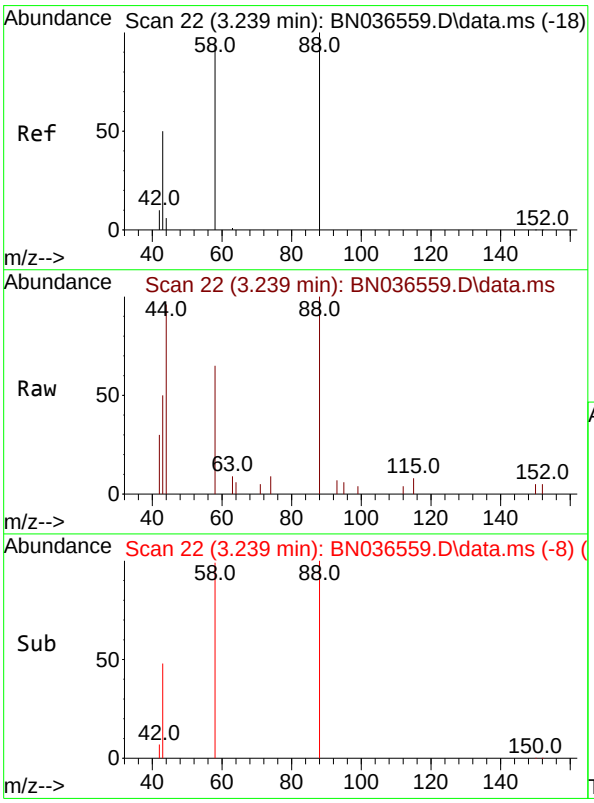
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

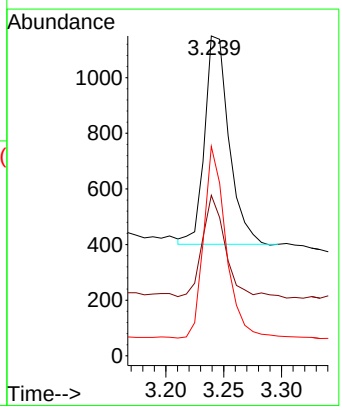


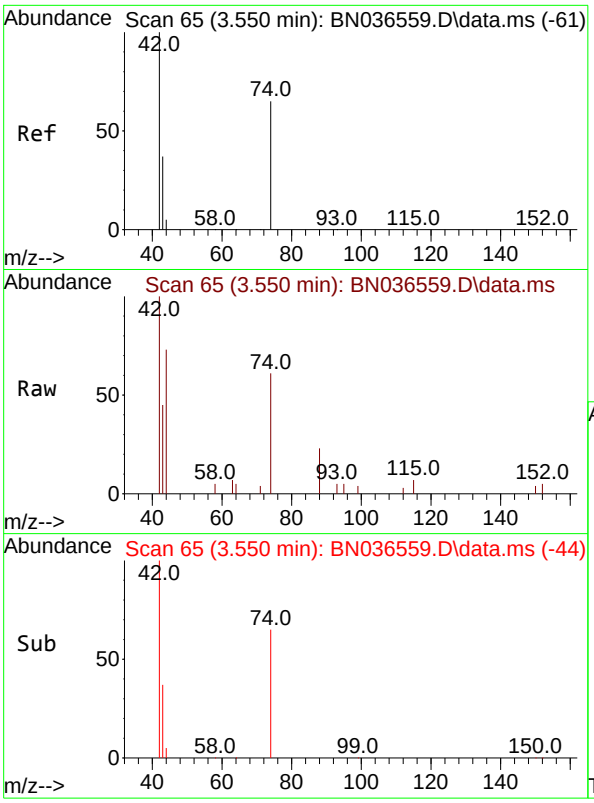


#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



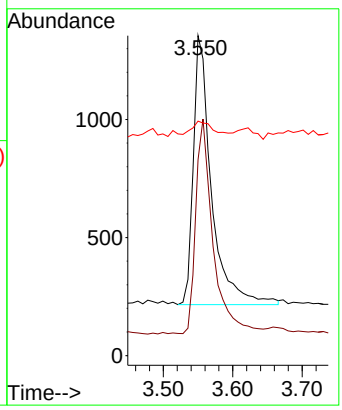


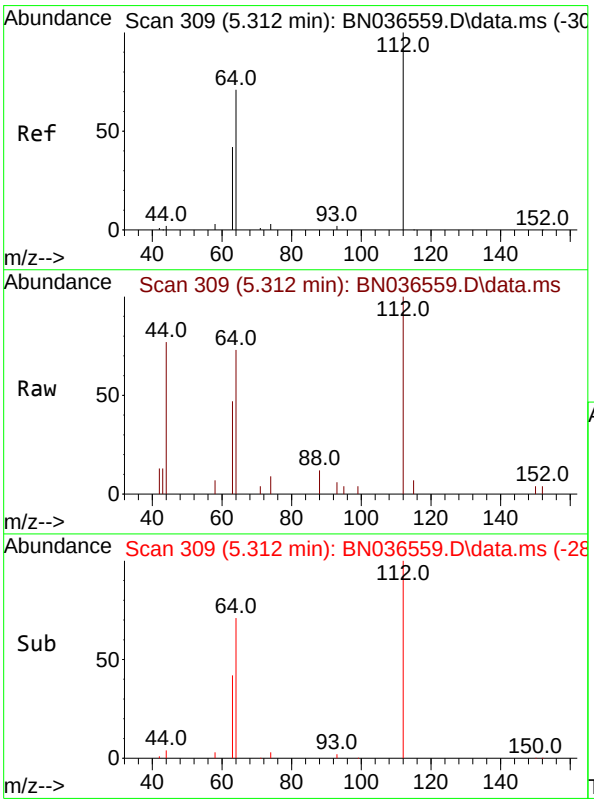
#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

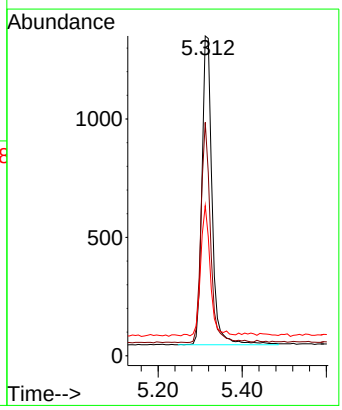


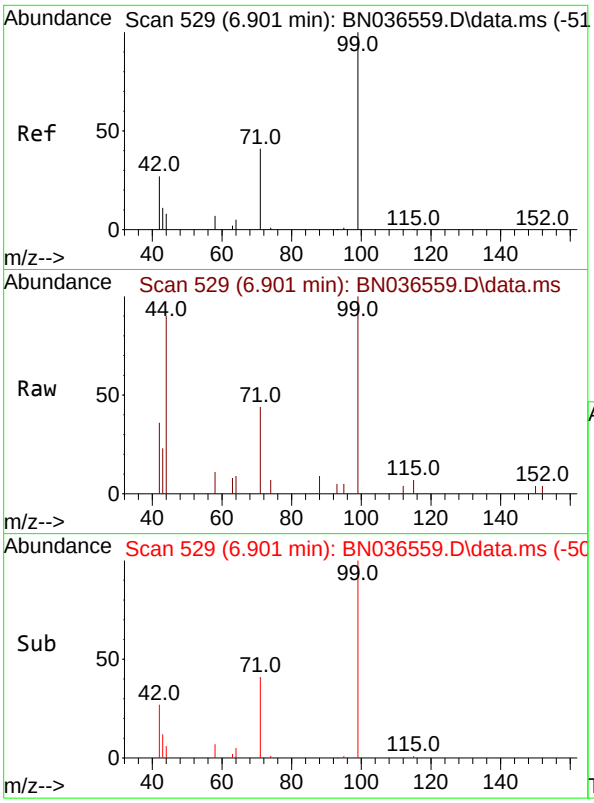


#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



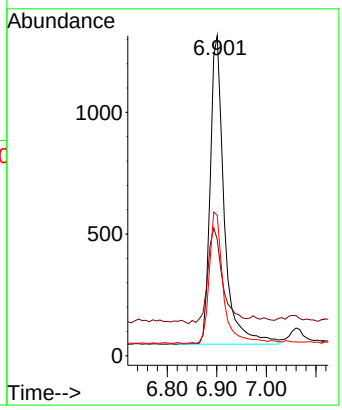


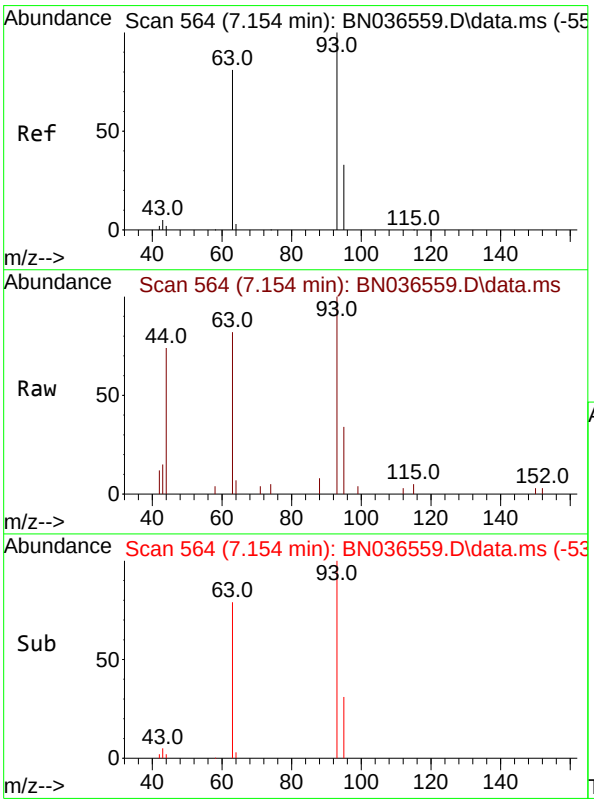
#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

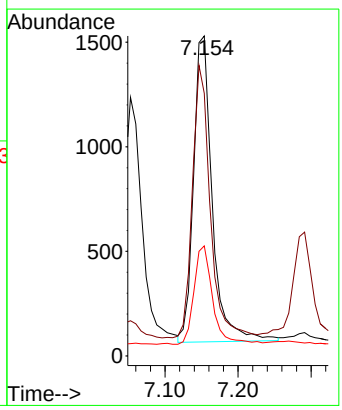


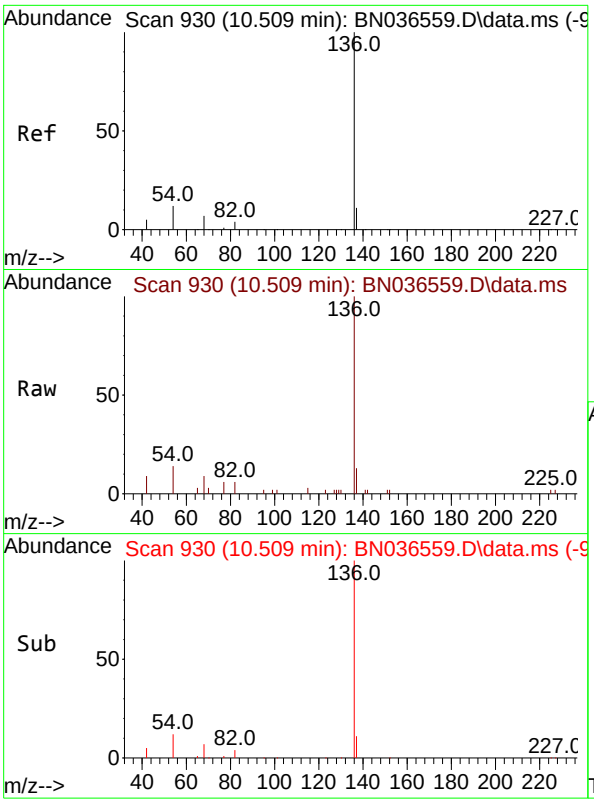


#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



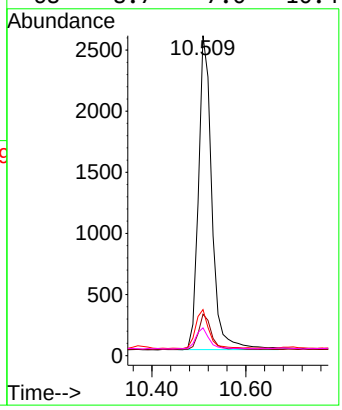


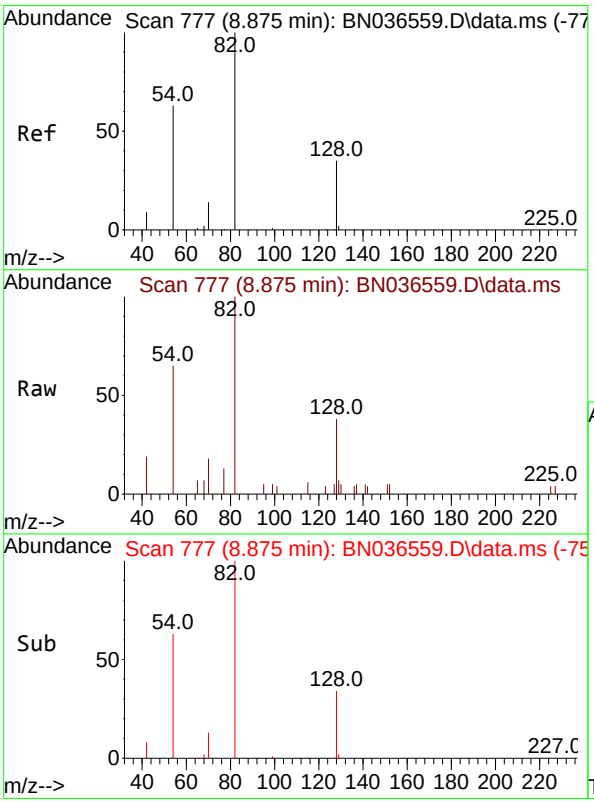
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

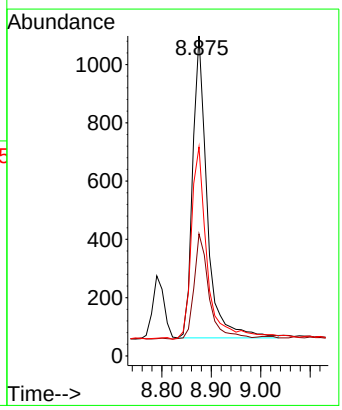


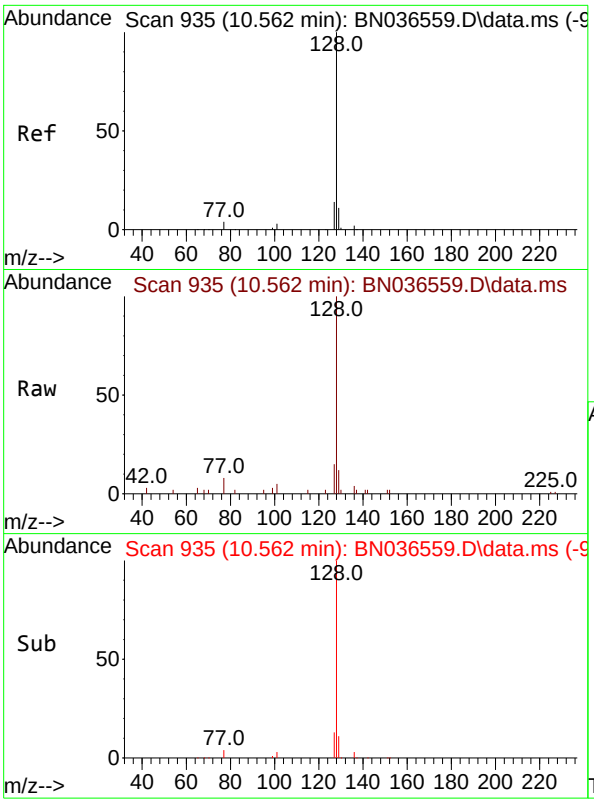


#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



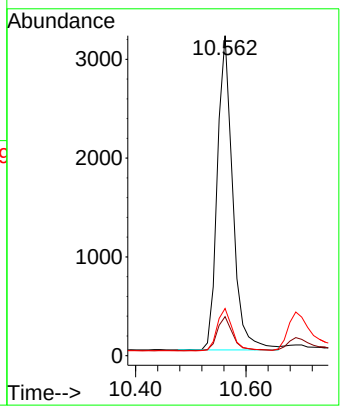


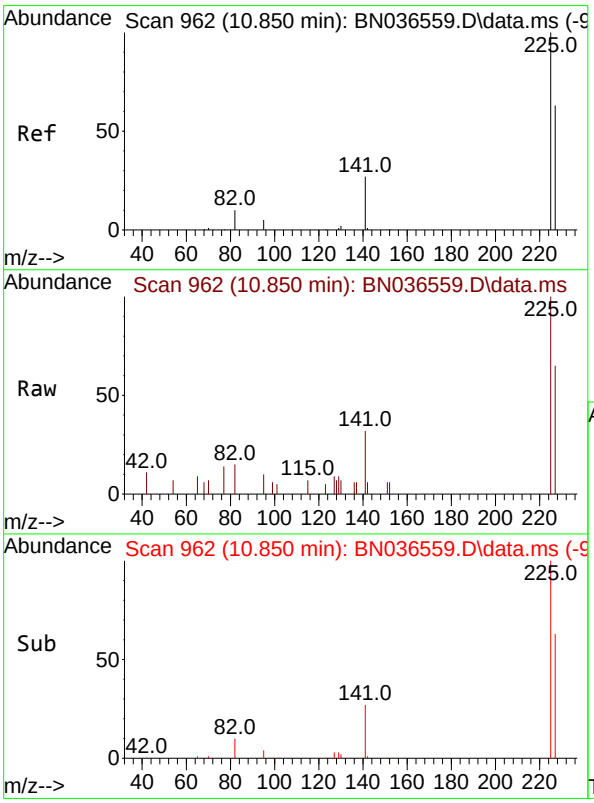
#9
Naphthalene
Concen: 0.410 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

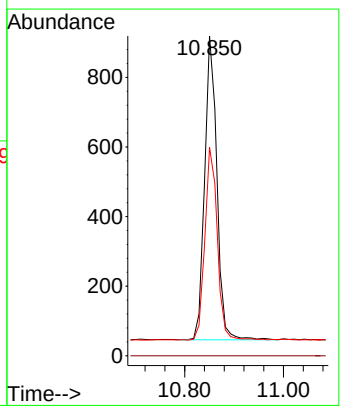


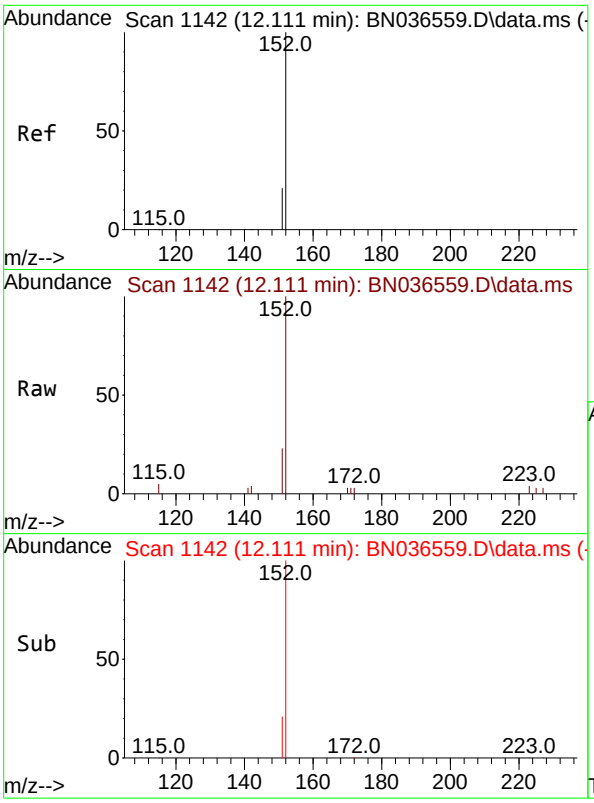


#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



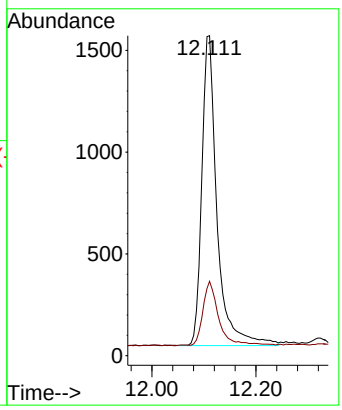


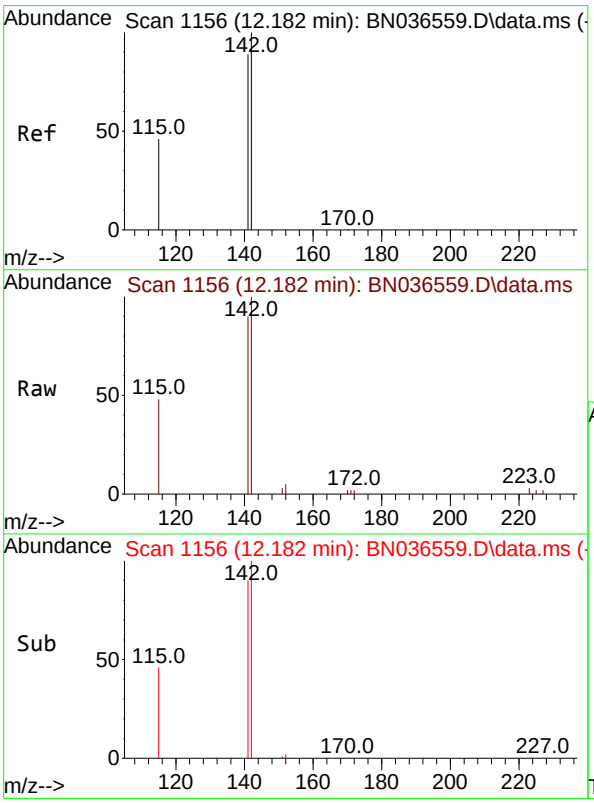
#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3085

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

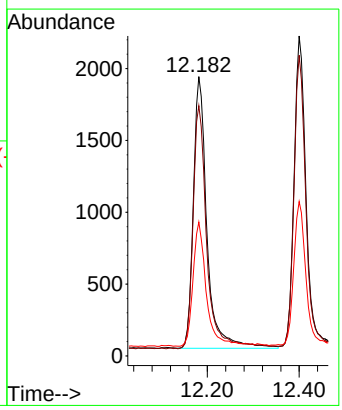


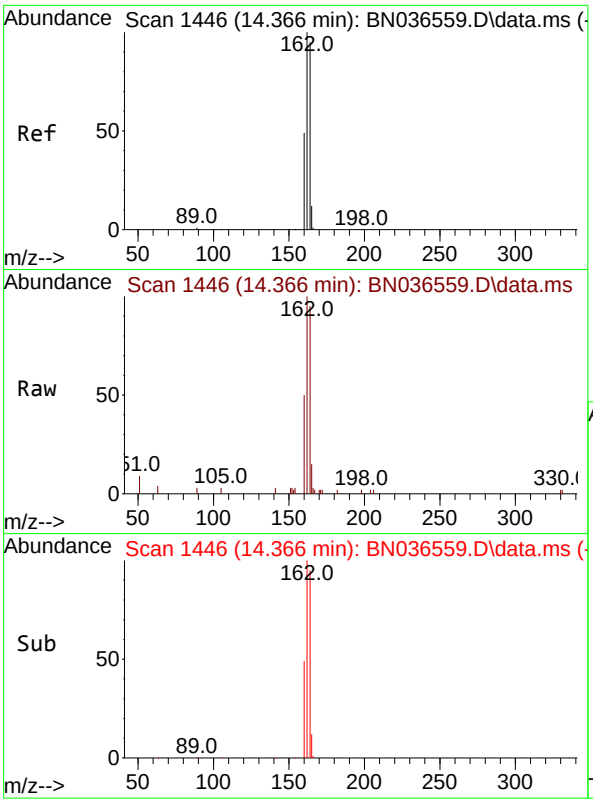


#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



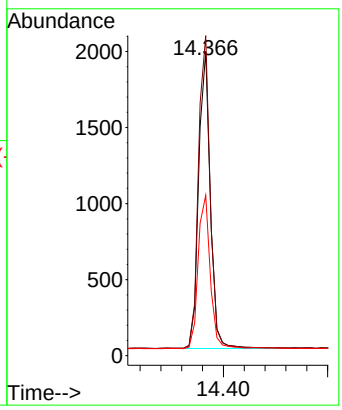


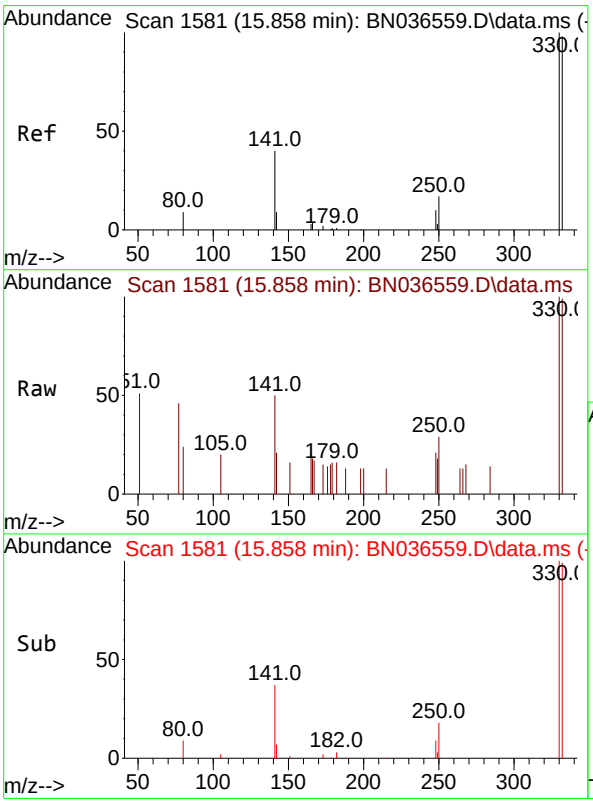
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

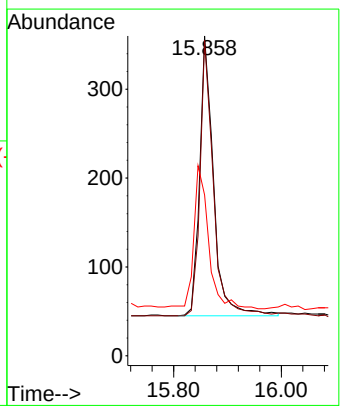


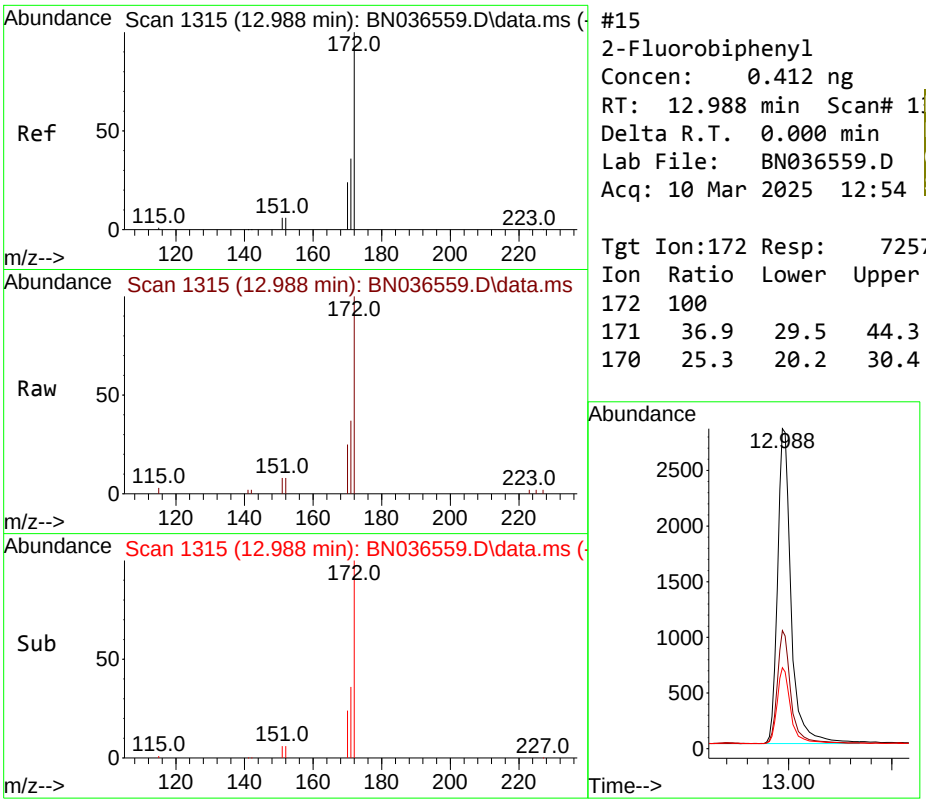


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



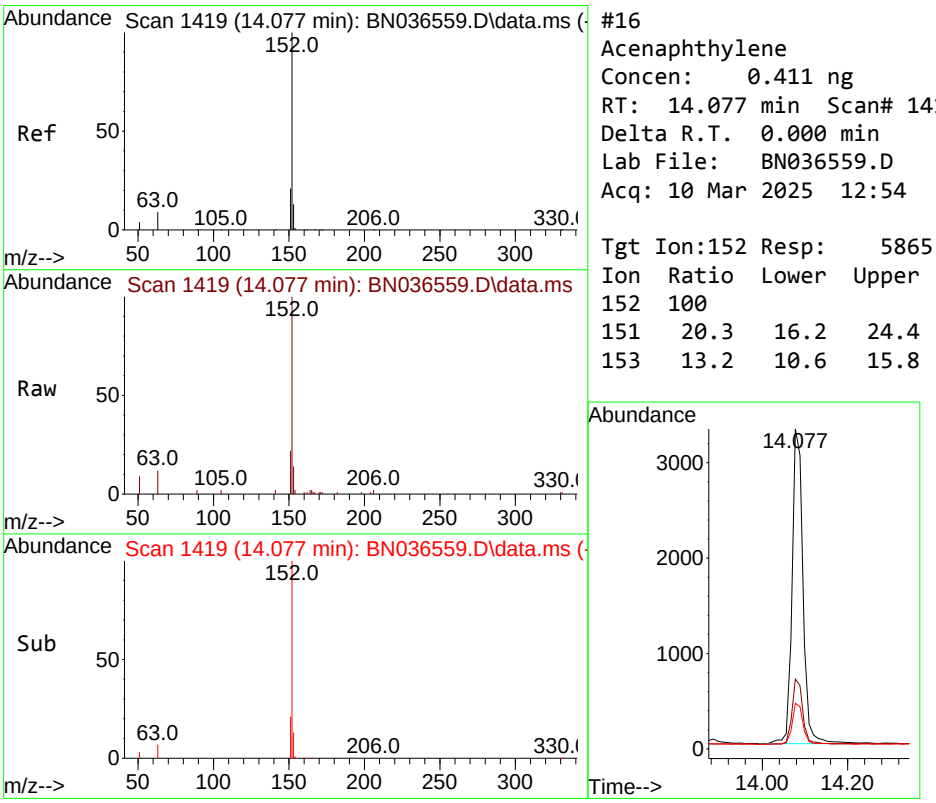


#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 7257

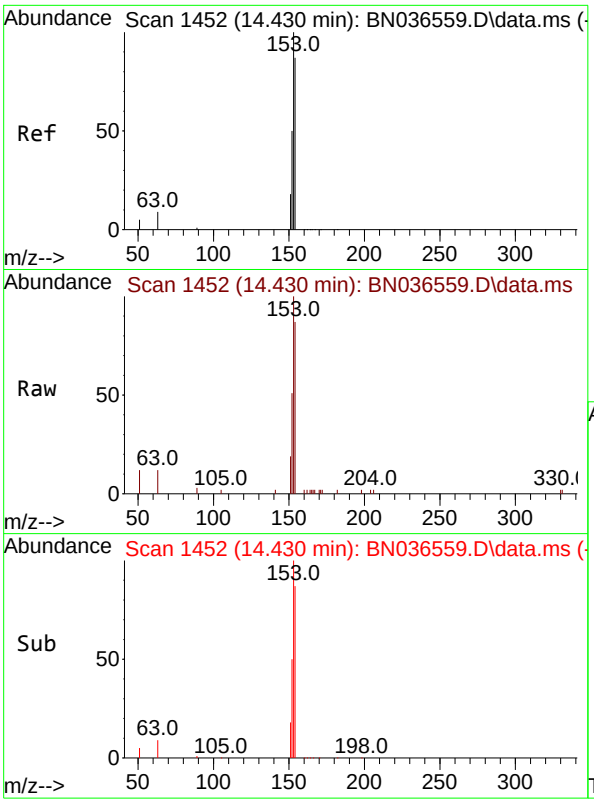
Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.5	44.3
170	25.3	20.2	30.4



#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

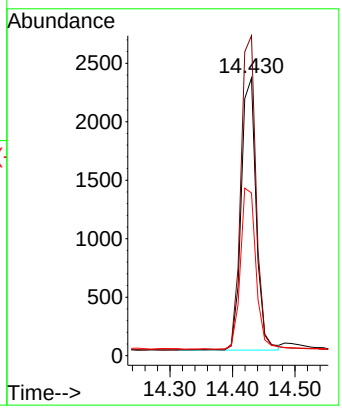


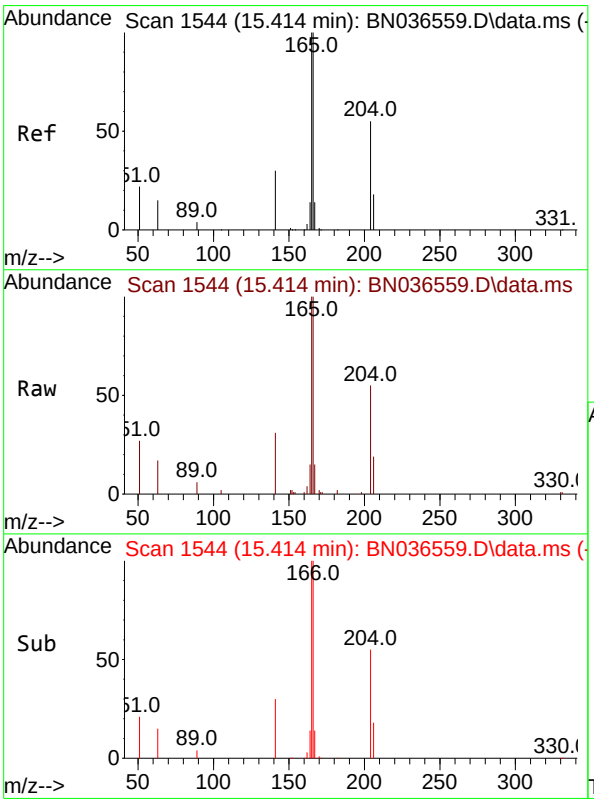
#17
Acenaphthene
Concen: 0.415 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

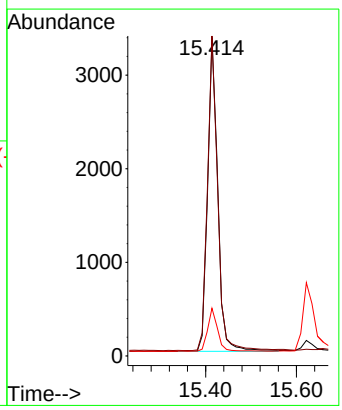


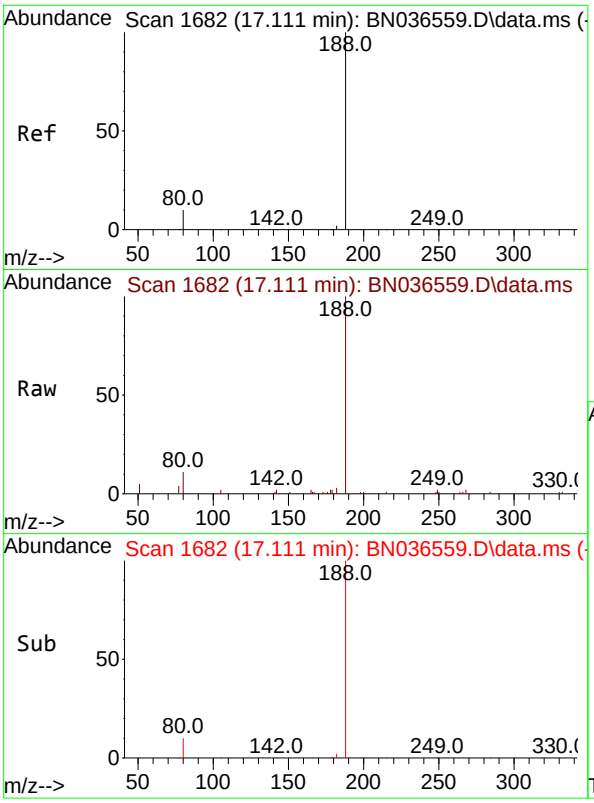


#18
Fluorene
Concen: 0.422 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



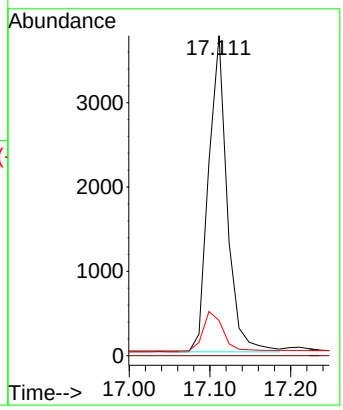


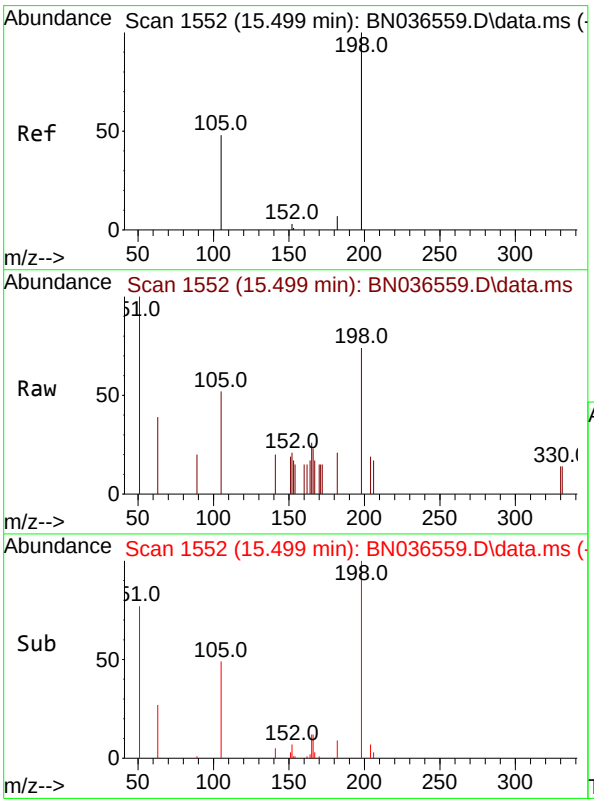
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

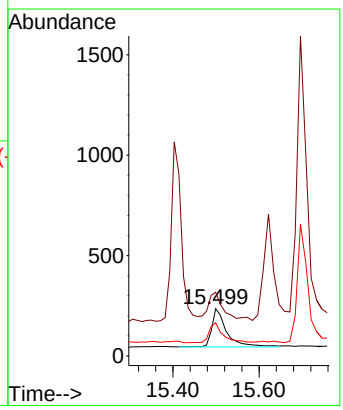


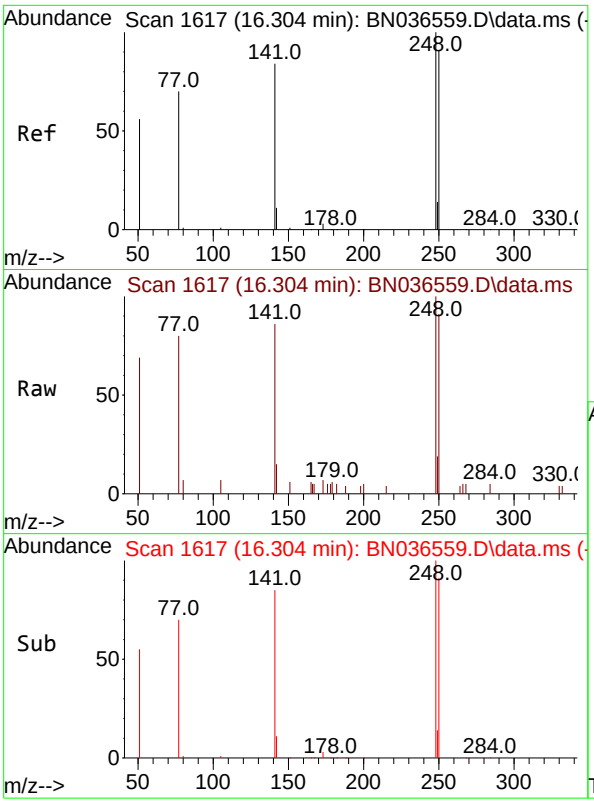


#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



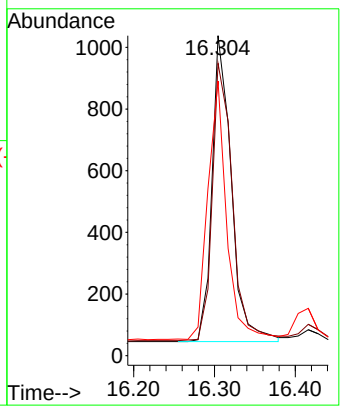


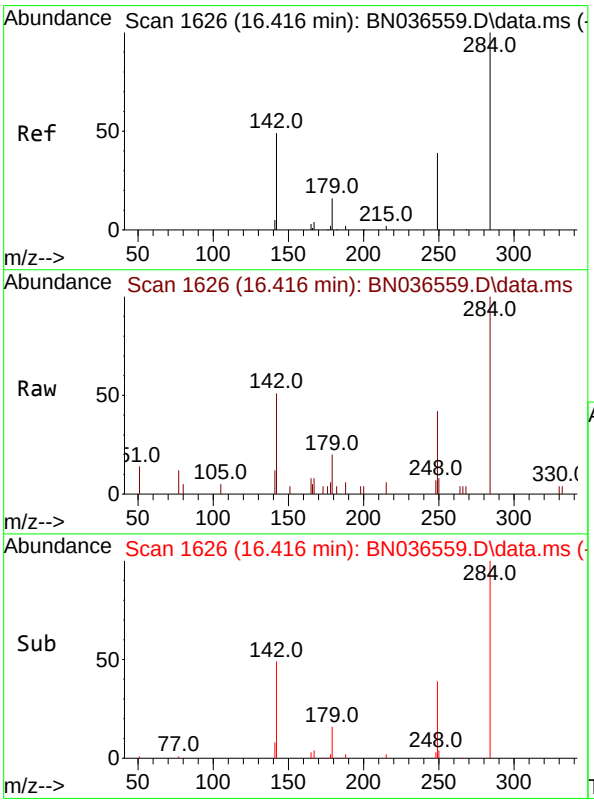
#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

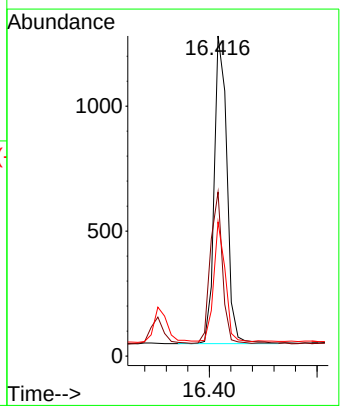


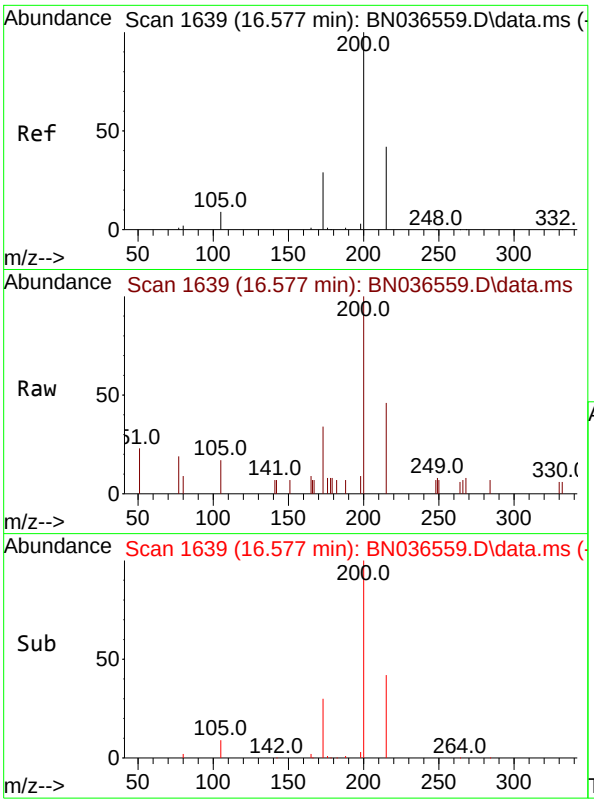


#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



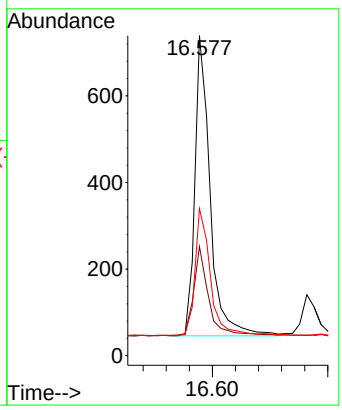


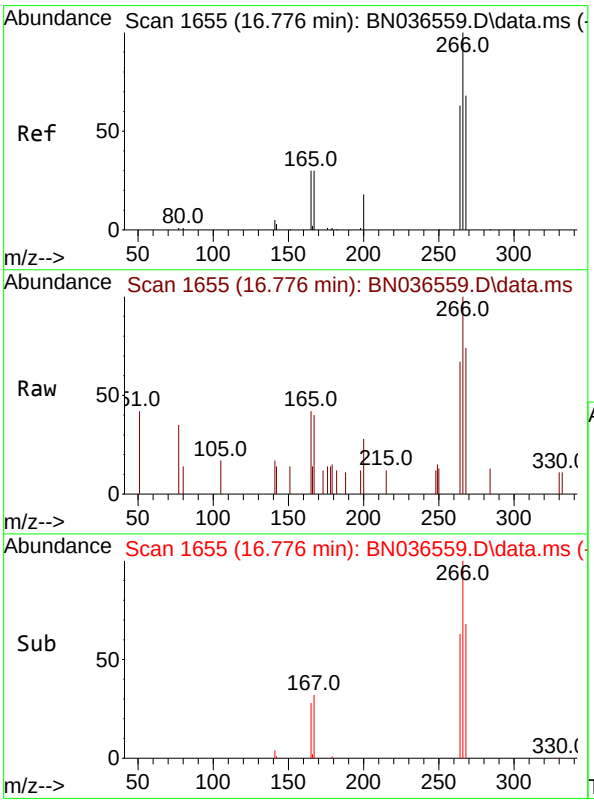
#23
Atrazine
Concen: 0.424 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

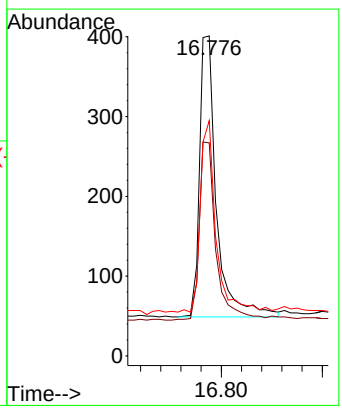


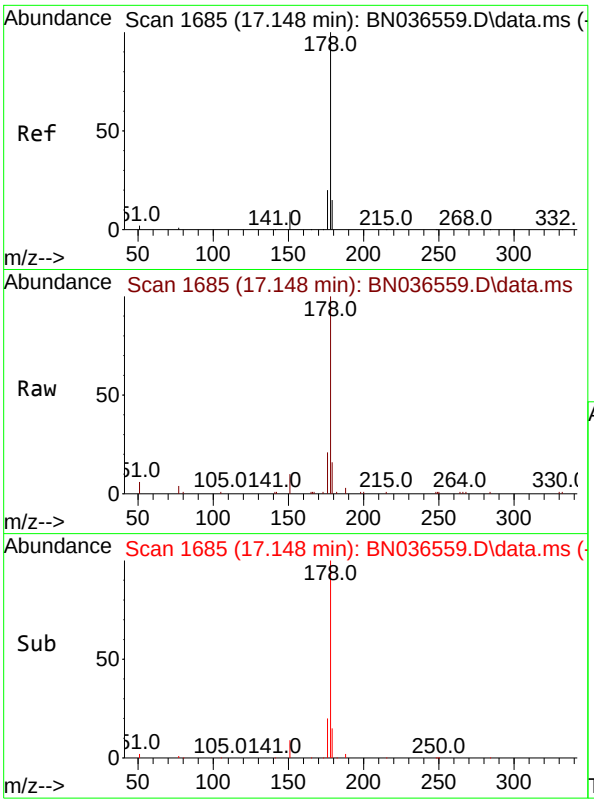


#24
Pentachlorophenol
Concen: 0.396 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



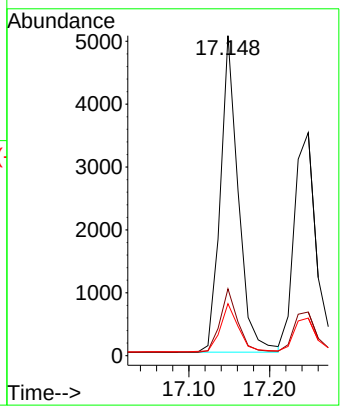


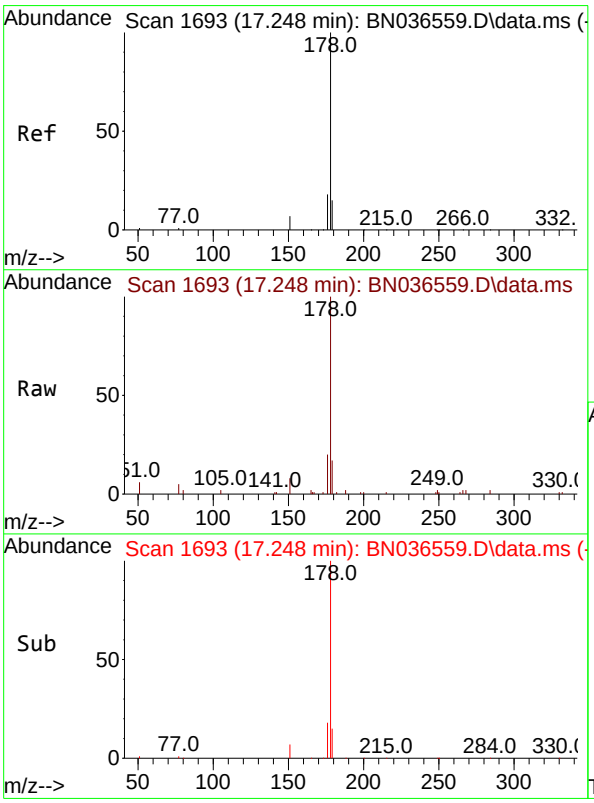
#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

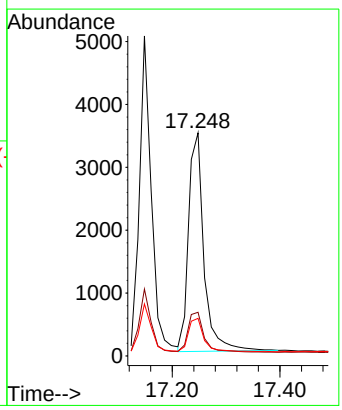


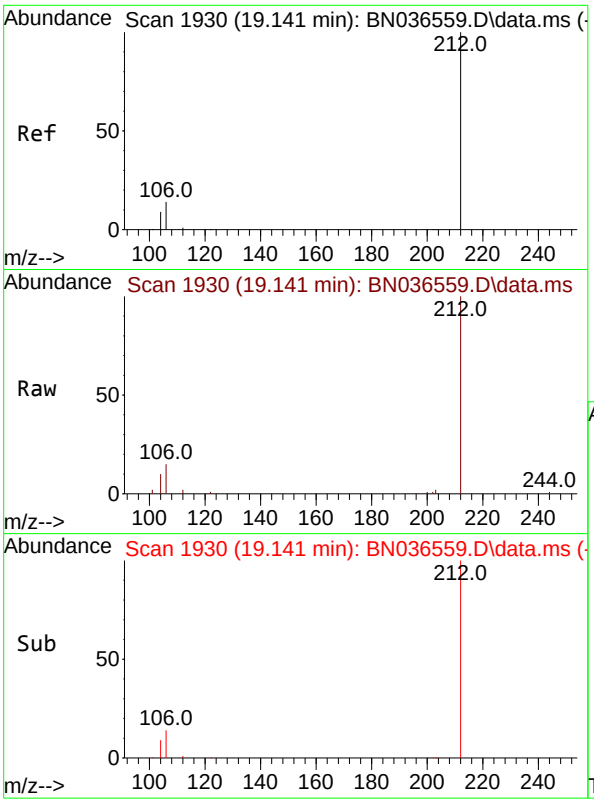


#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



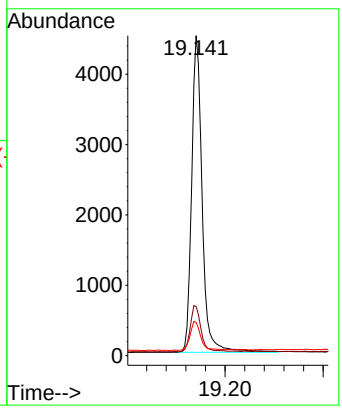


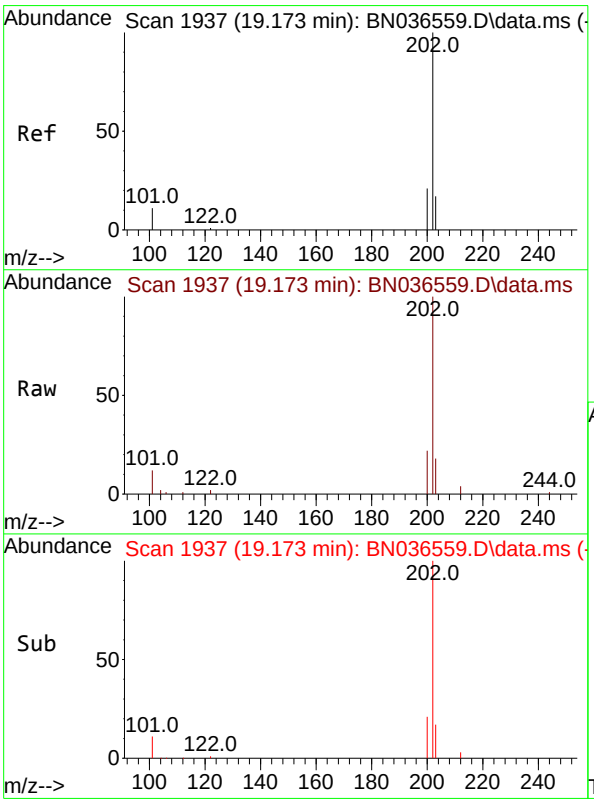
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

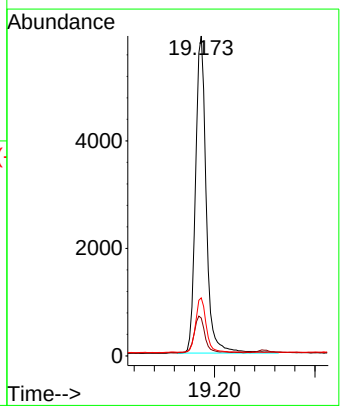


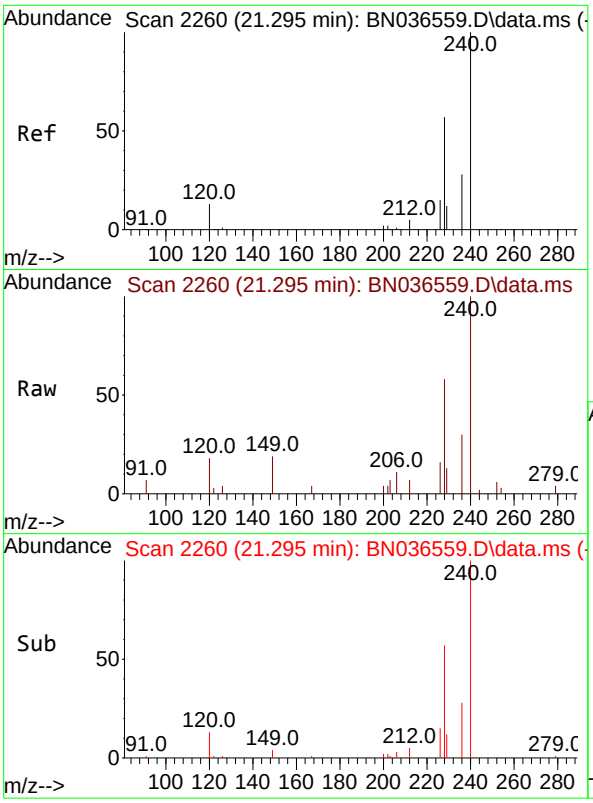


#28
Fluoranthene
Concen: 0.431 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



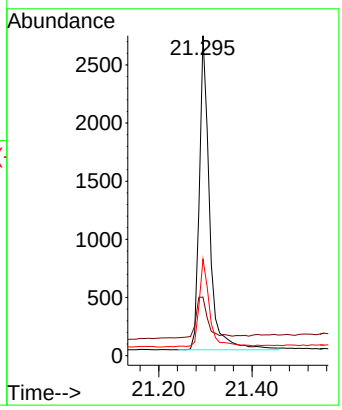


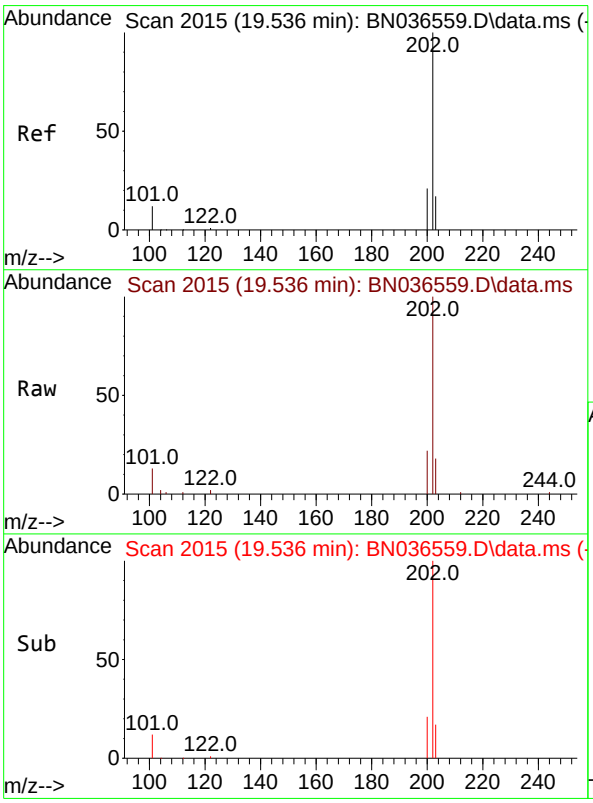
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

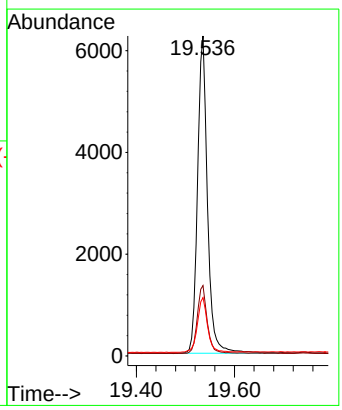


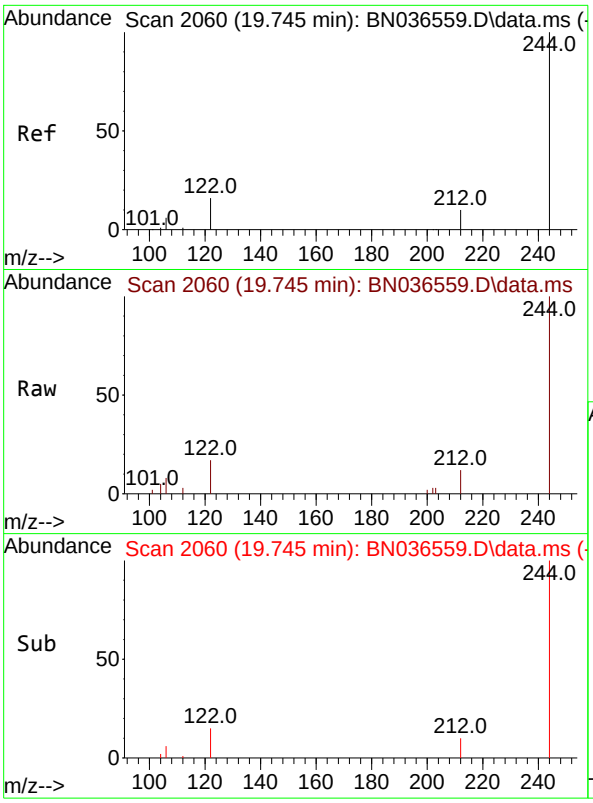


#30
Pyrene
Concen: 0.436 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



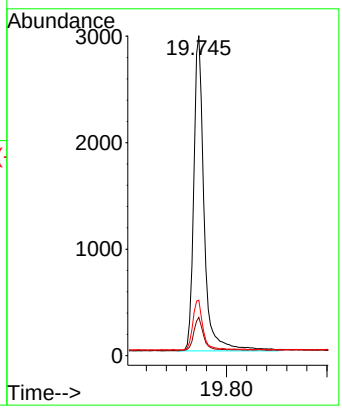


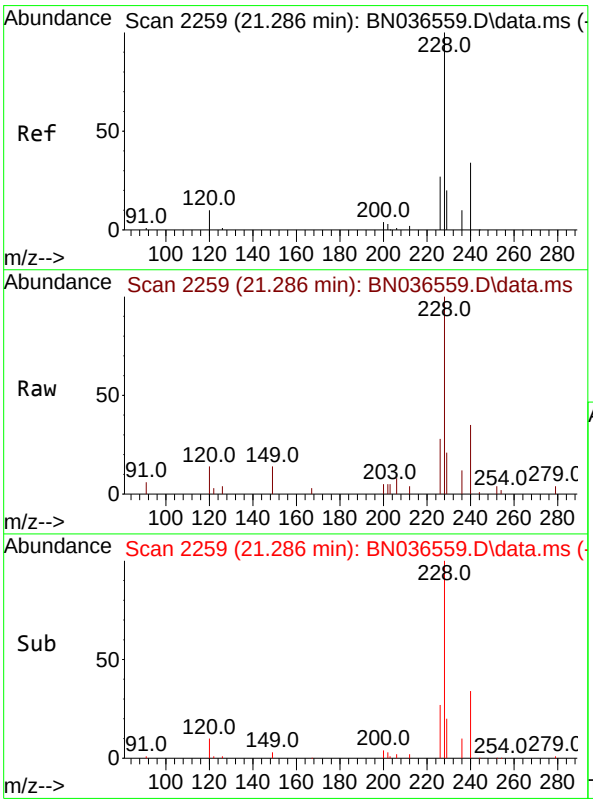
#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

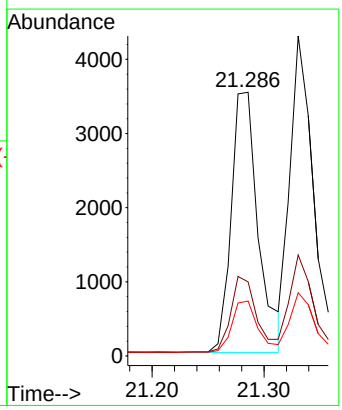


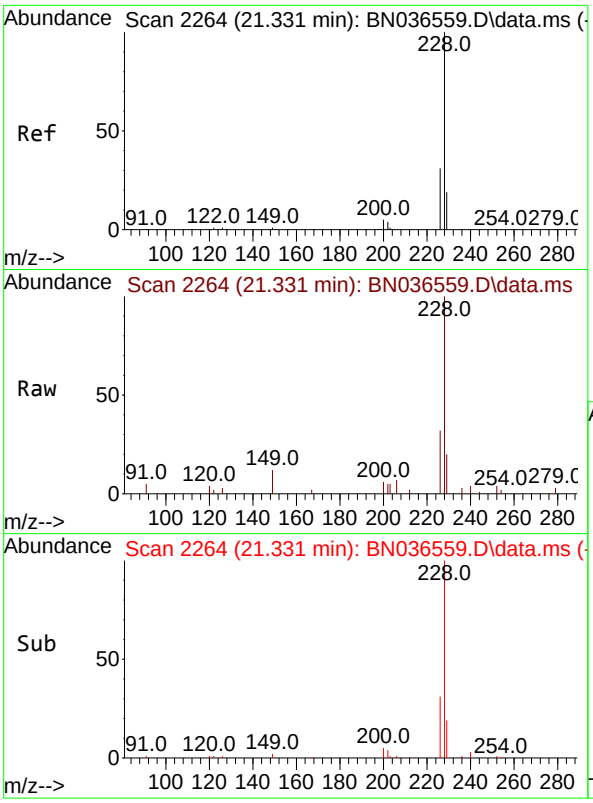


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



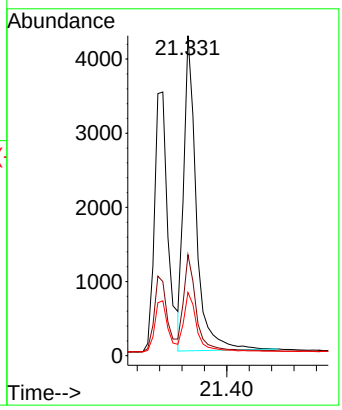


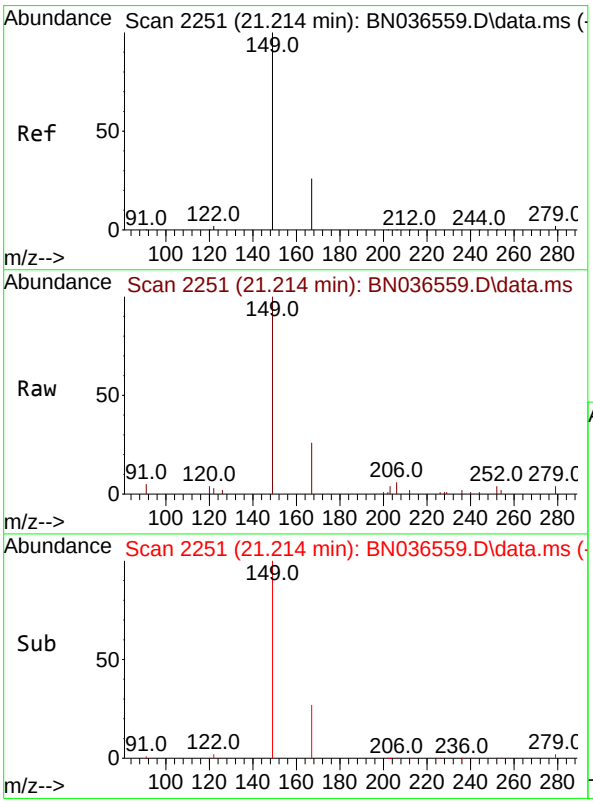
#33
Chrysene
Concen: 0.424 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

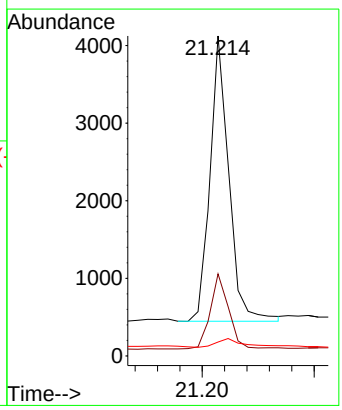


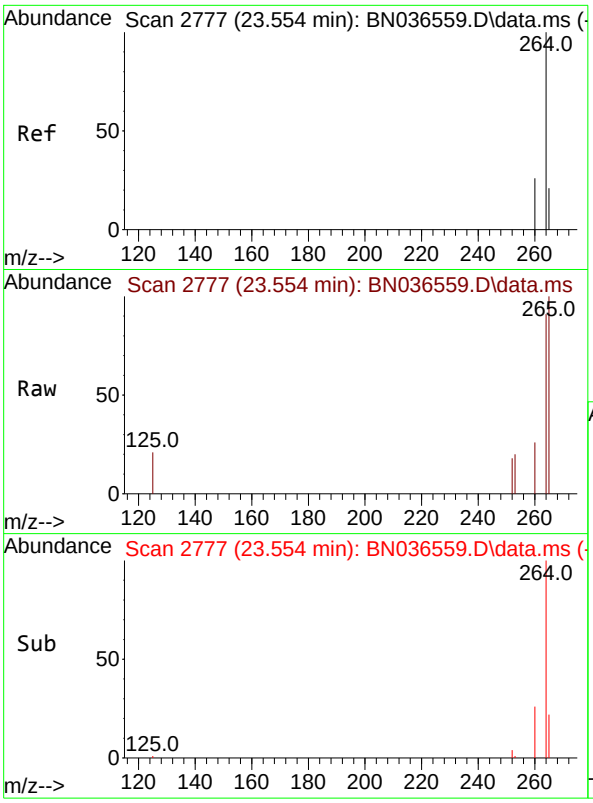


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.422 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



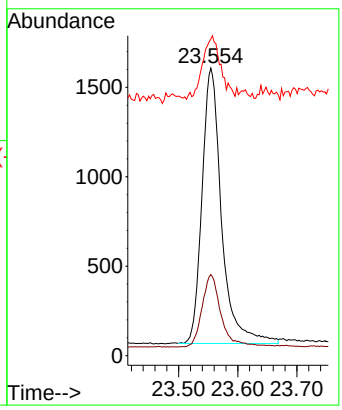


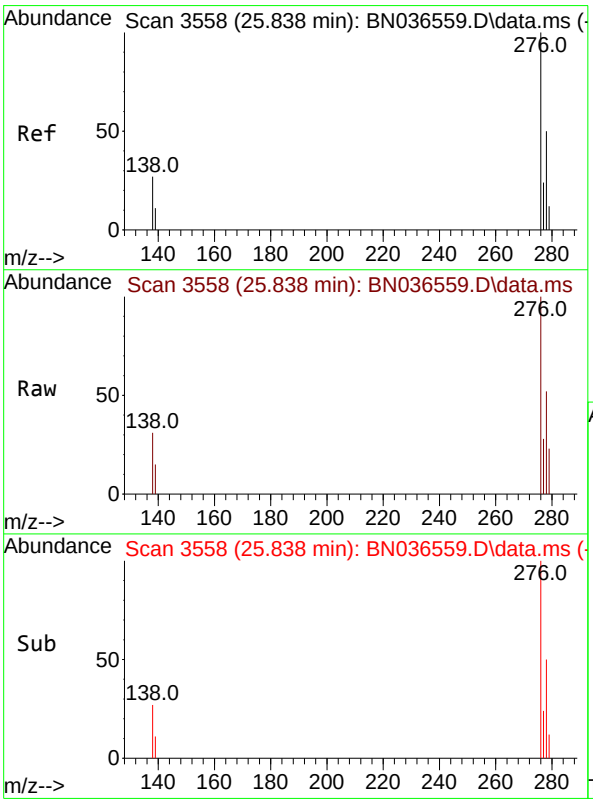
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

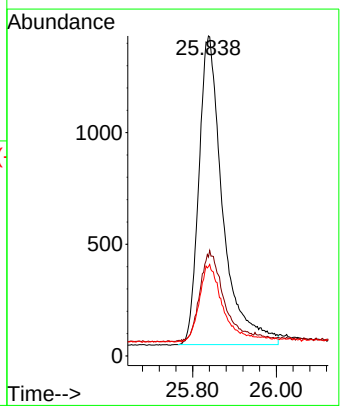


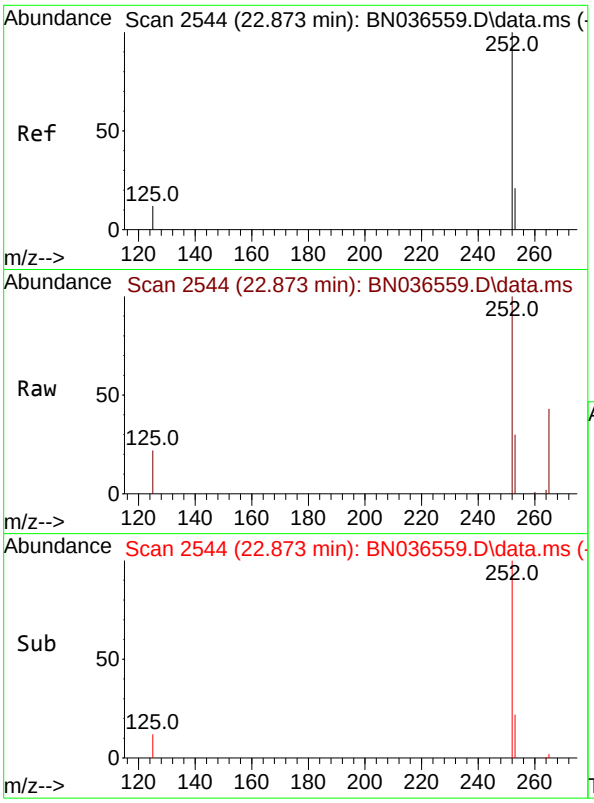


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



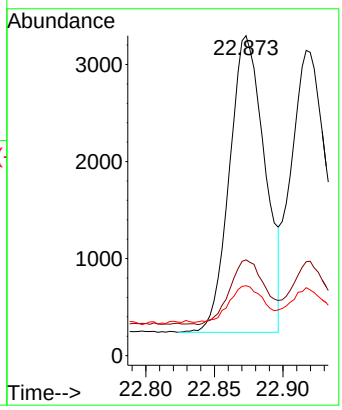


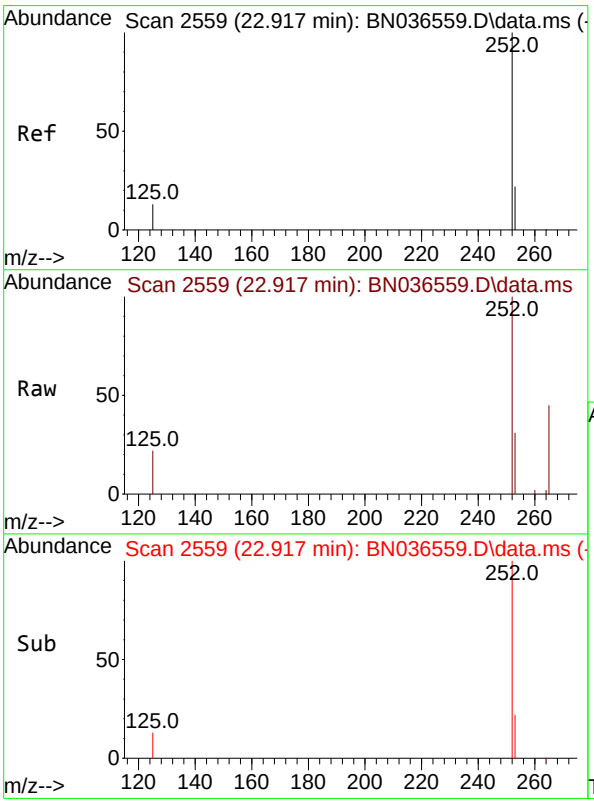
#37
Benzo(b)fluoranthene
Concen: 0.425 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

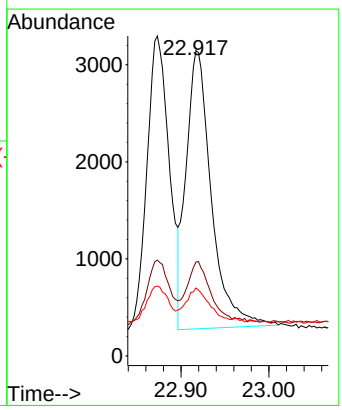


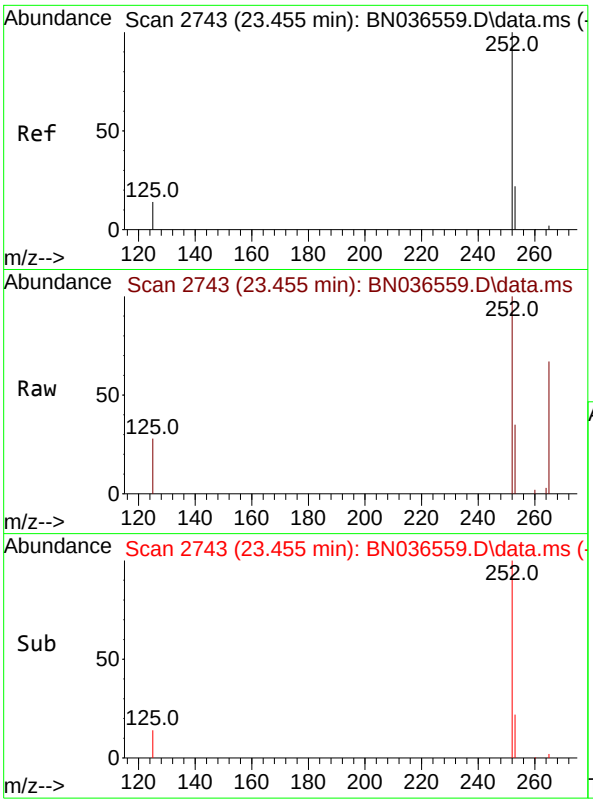


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



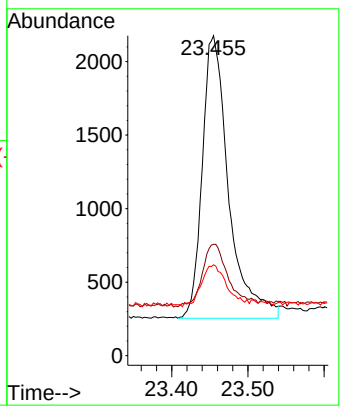


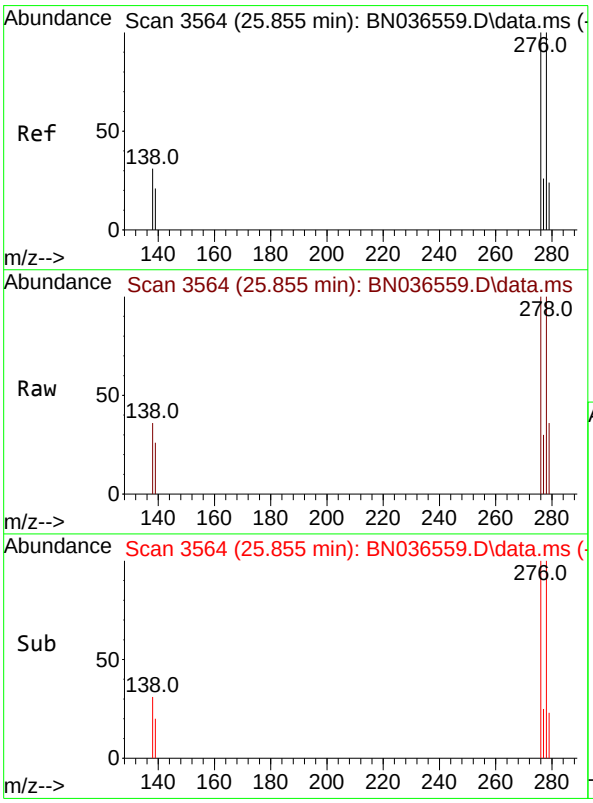
#39
Benzo(a)pyrene
Concen: 0.425 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

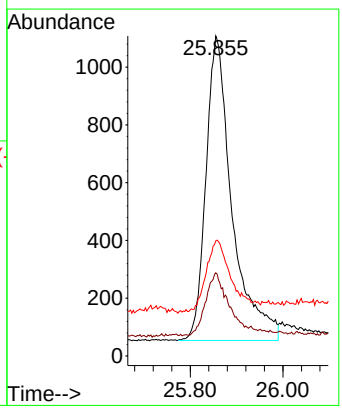


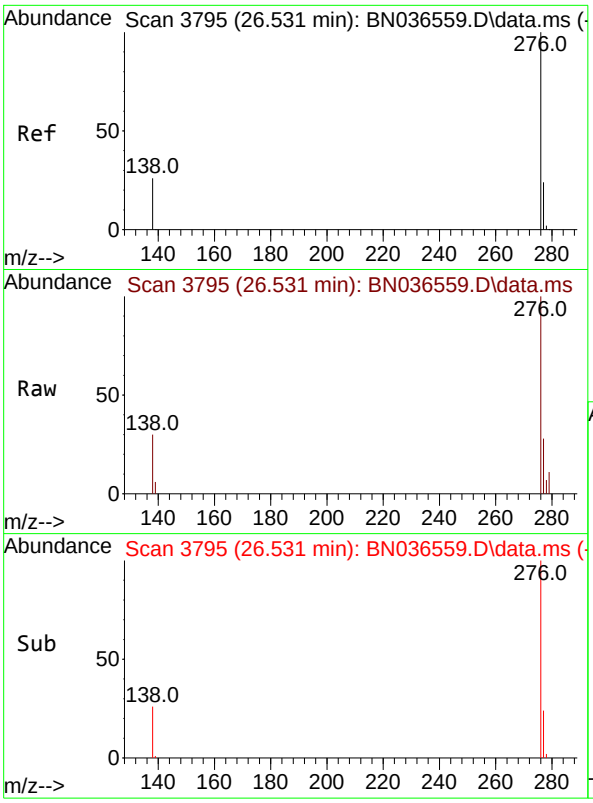


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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



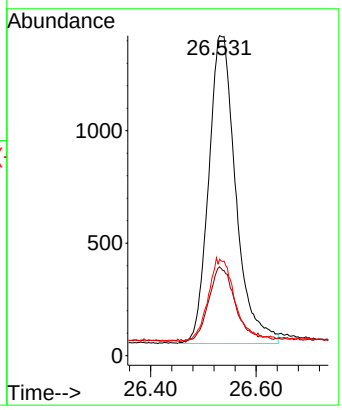


#41
Benzo(g,h,i)perylene
Concen: 0.430 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

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

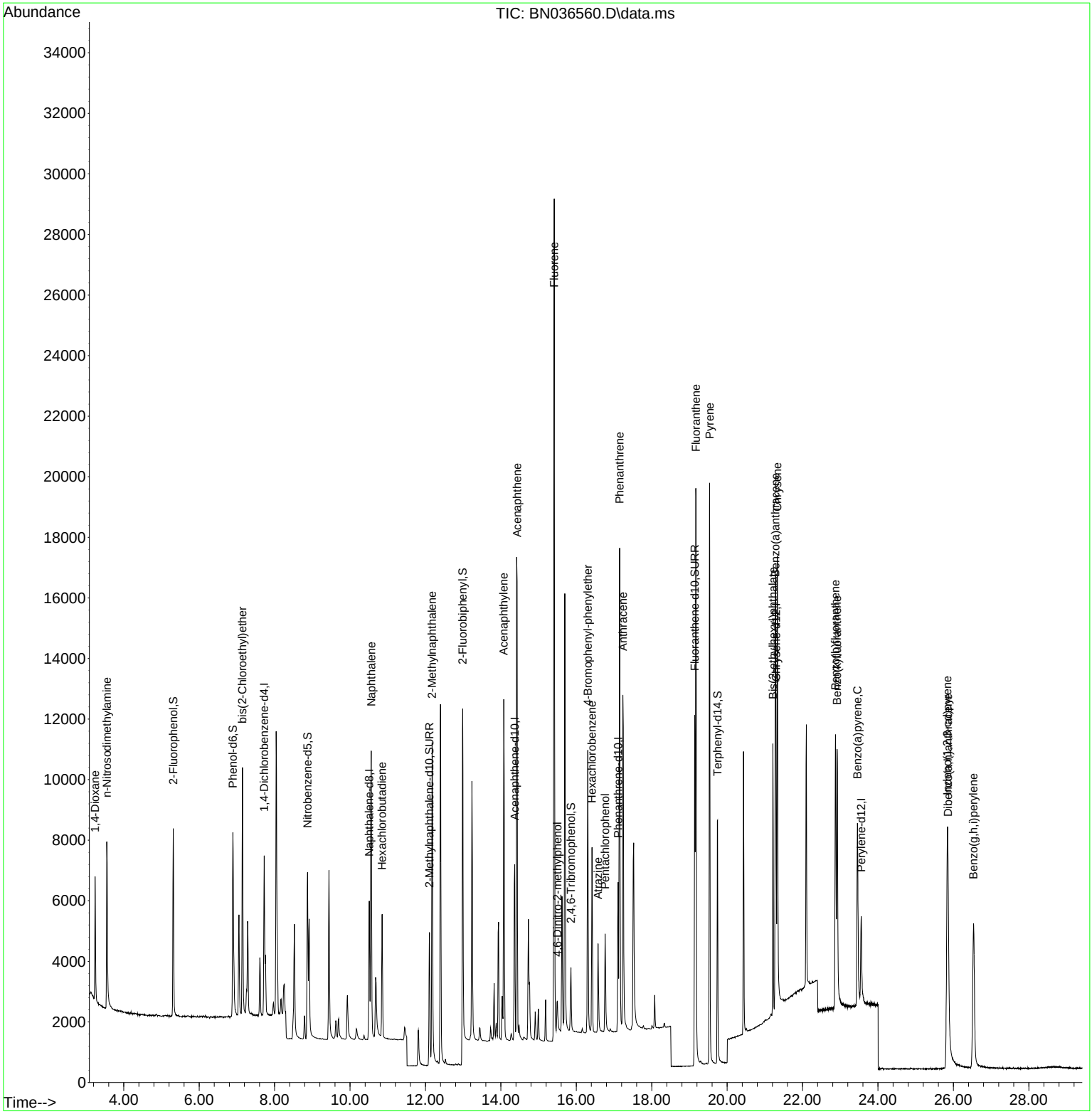
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng		0.00
29) Chrysene-d12	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

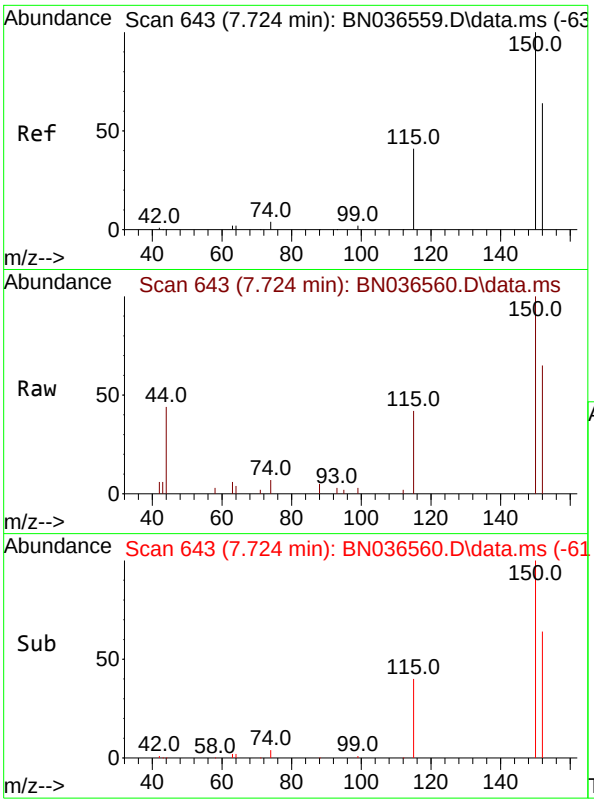
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



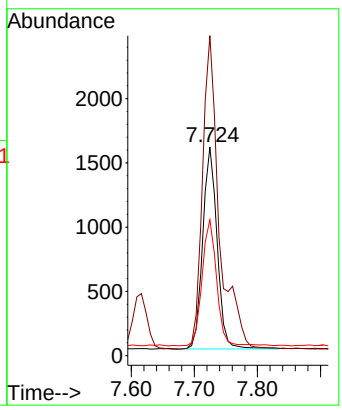


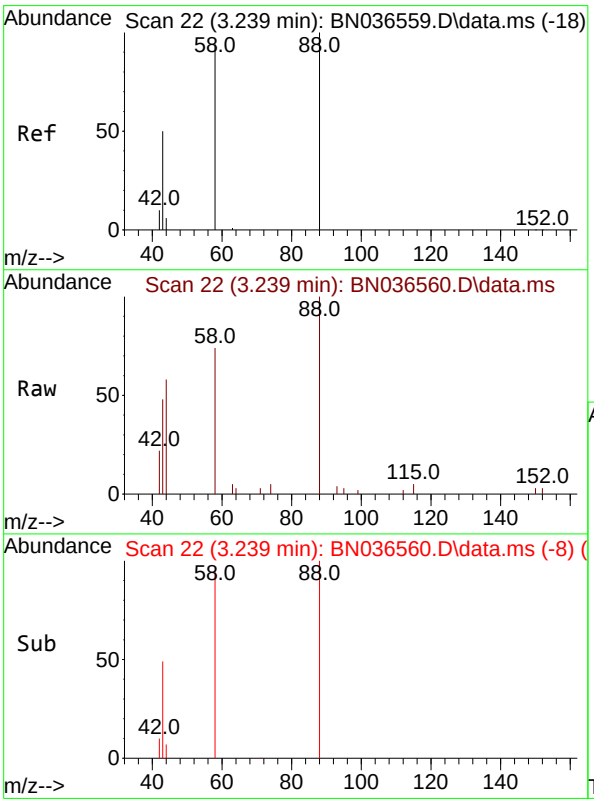
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

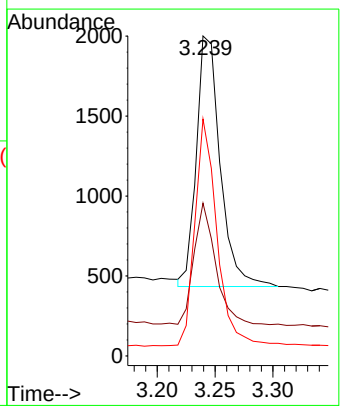


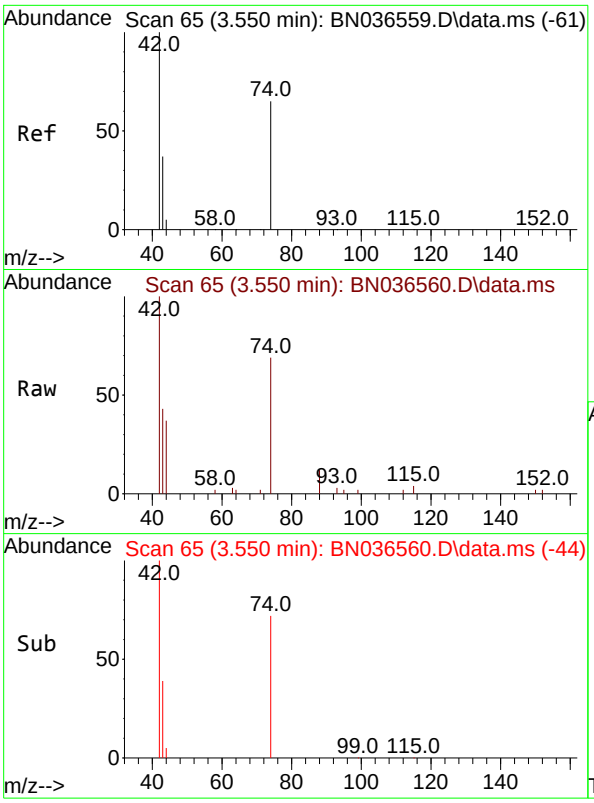


#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



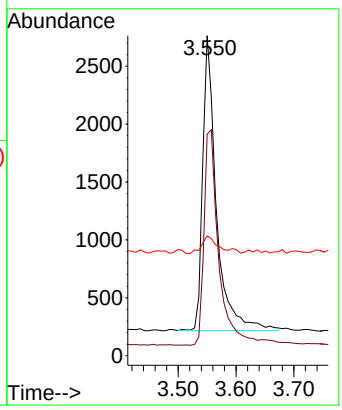


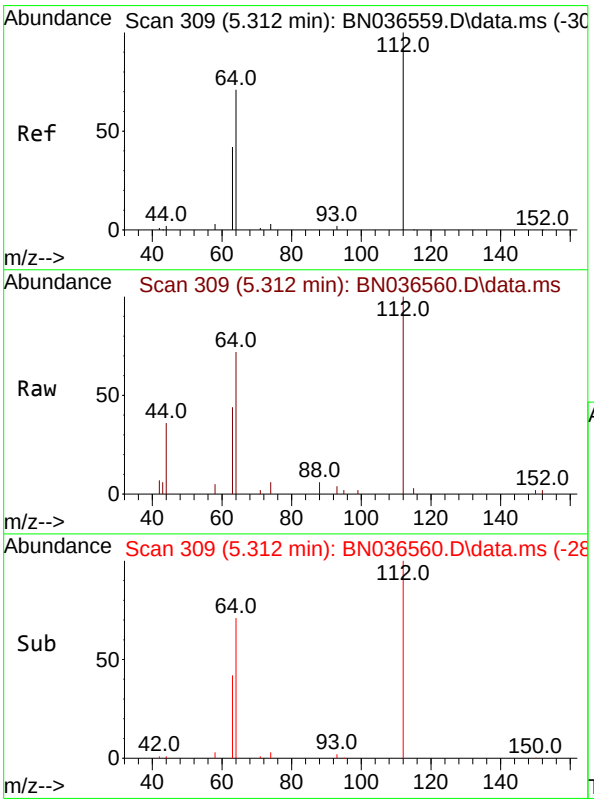
#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

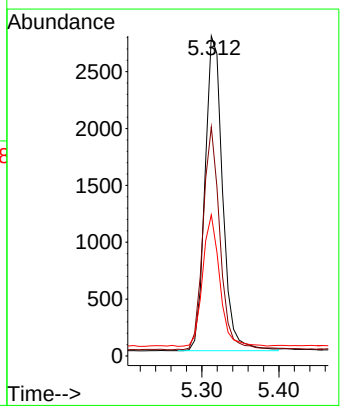


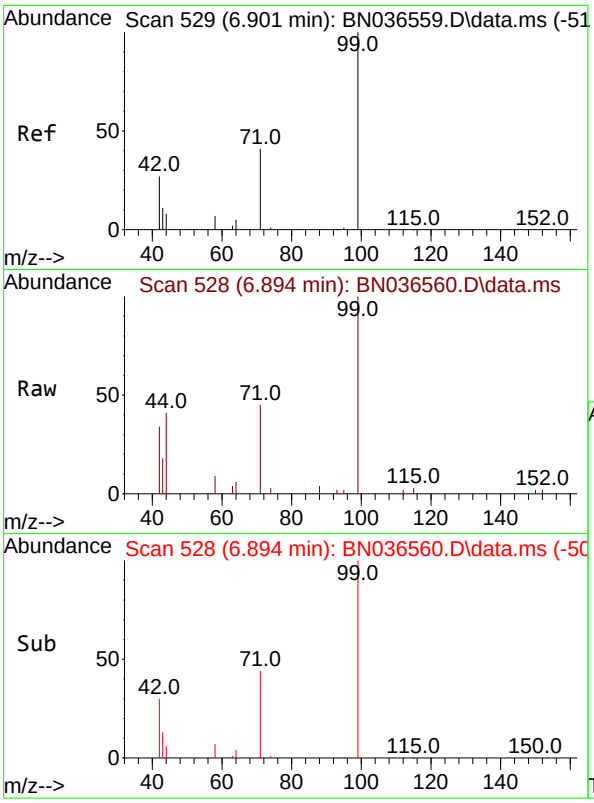


#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



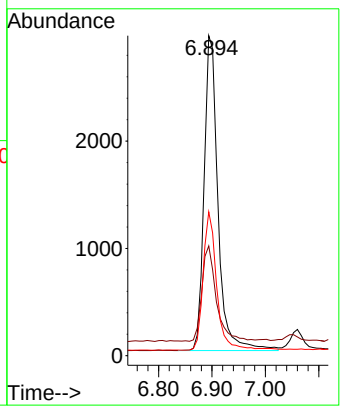


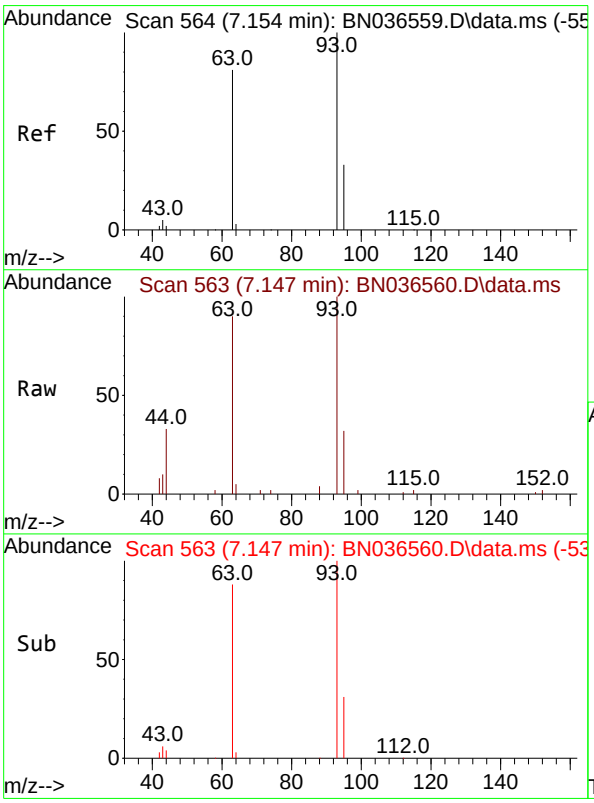
#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

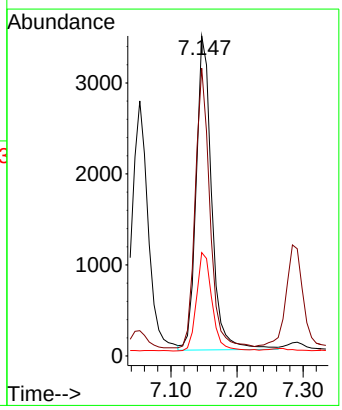


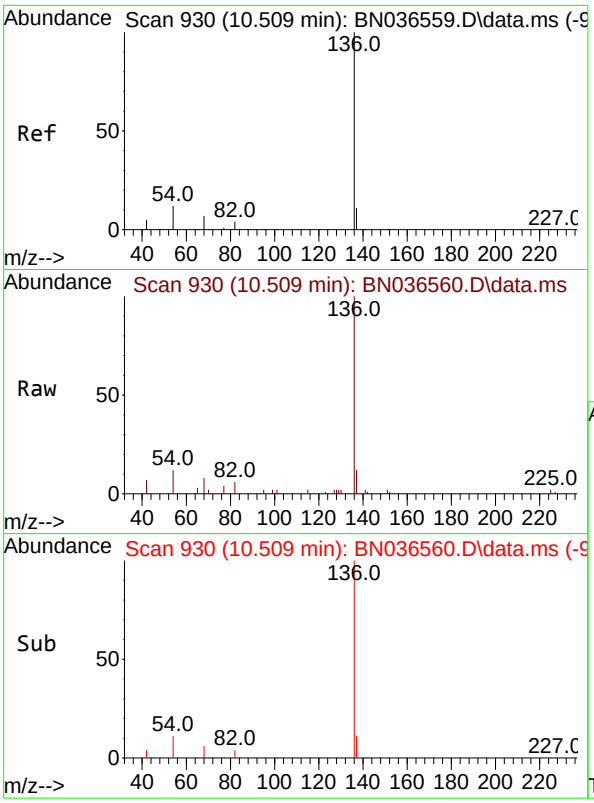


#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



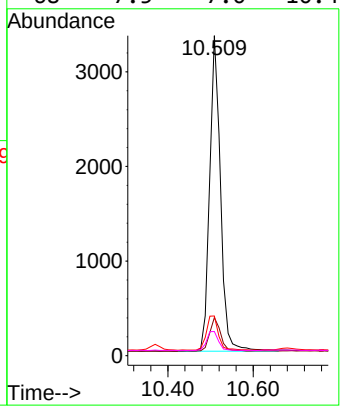


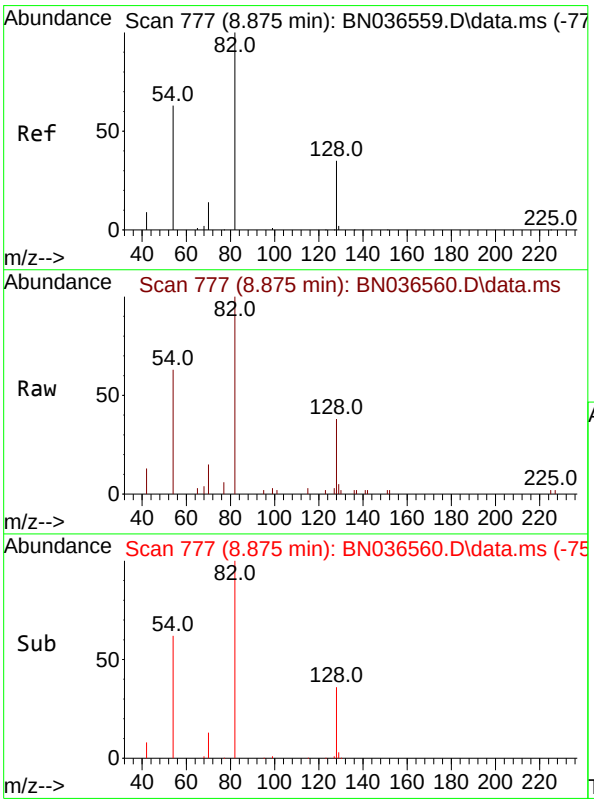
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

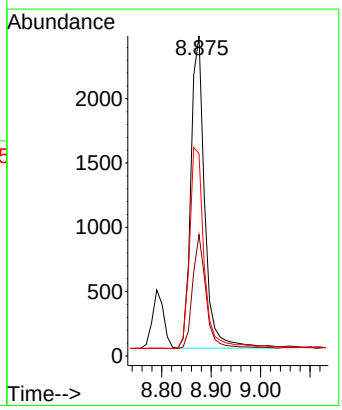


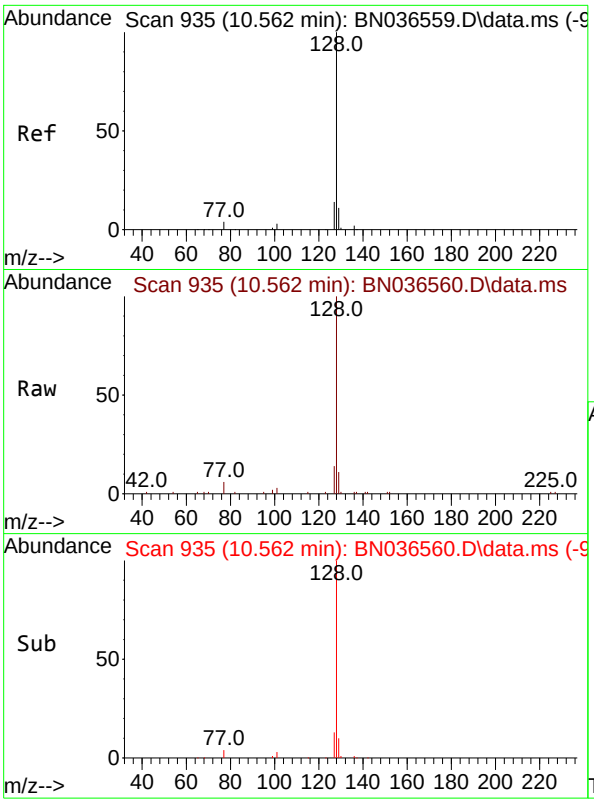


#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



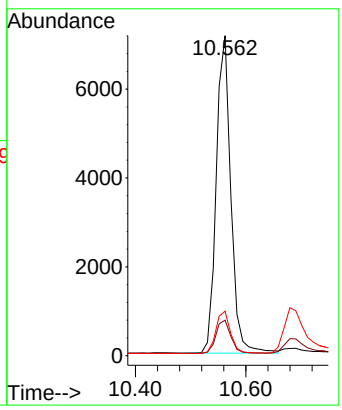


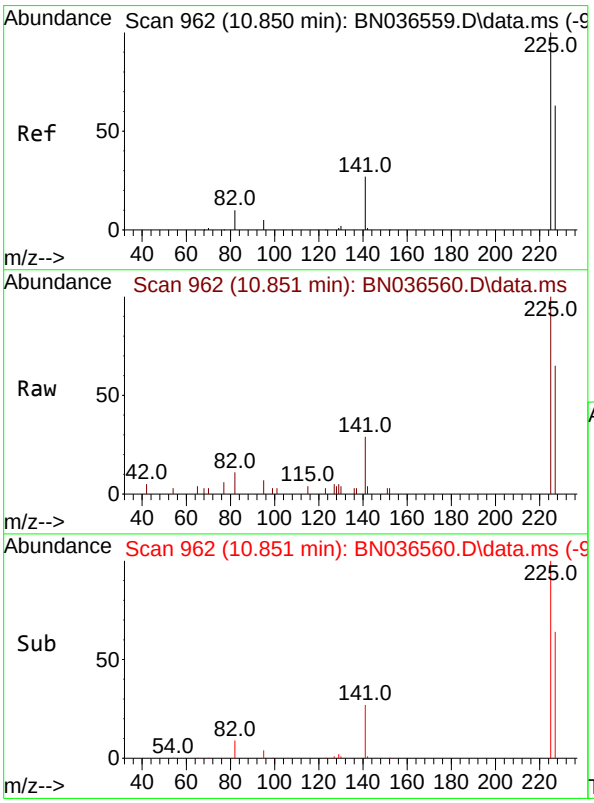
#9
Naphthalene
Concen: 0.756 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

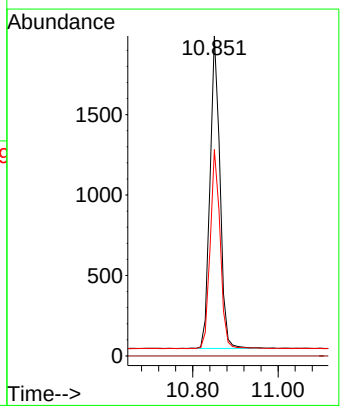


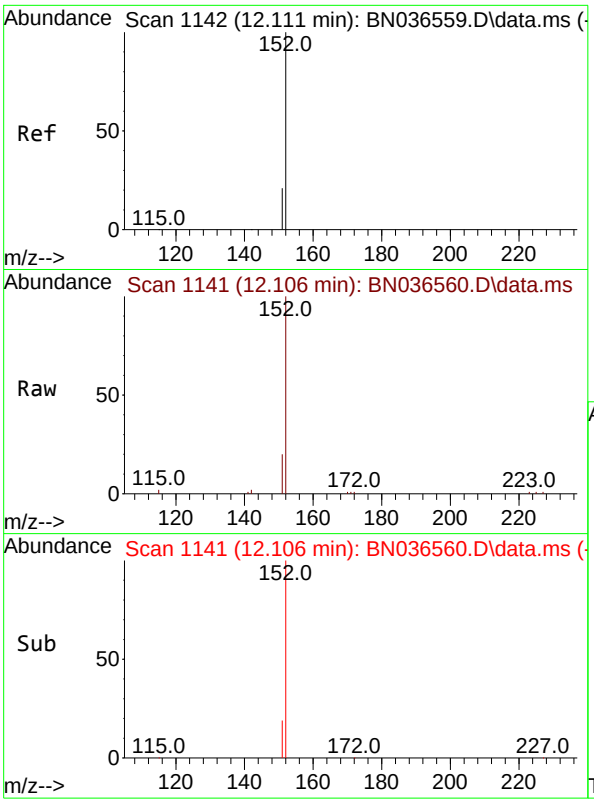


#10
Hexachlorobutadiene
Concen: 0.772 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



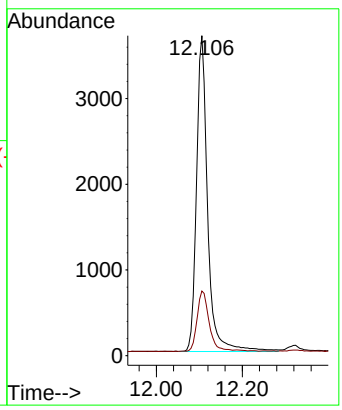


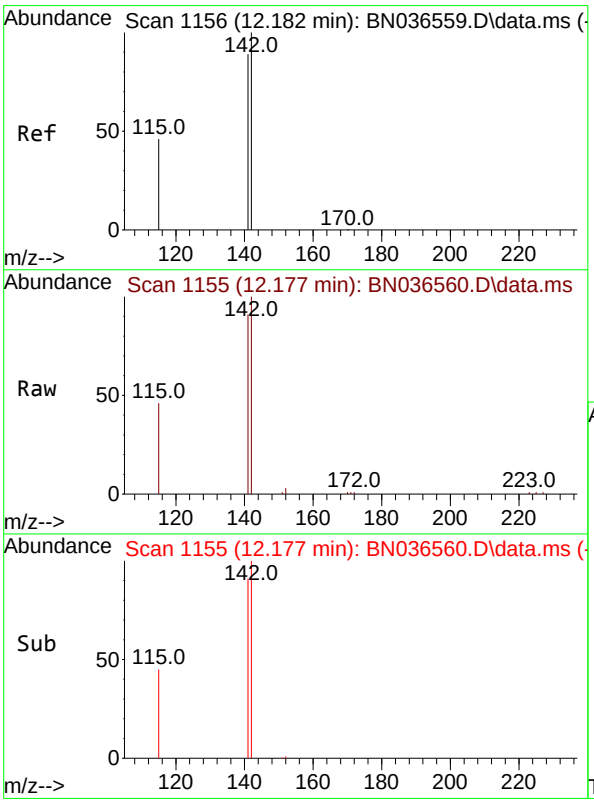
#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6616

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

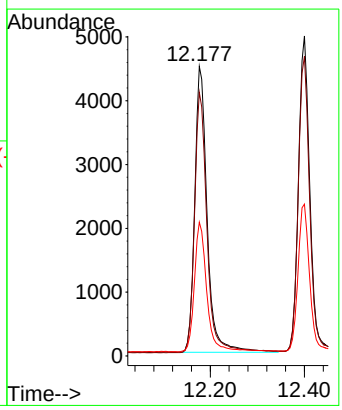


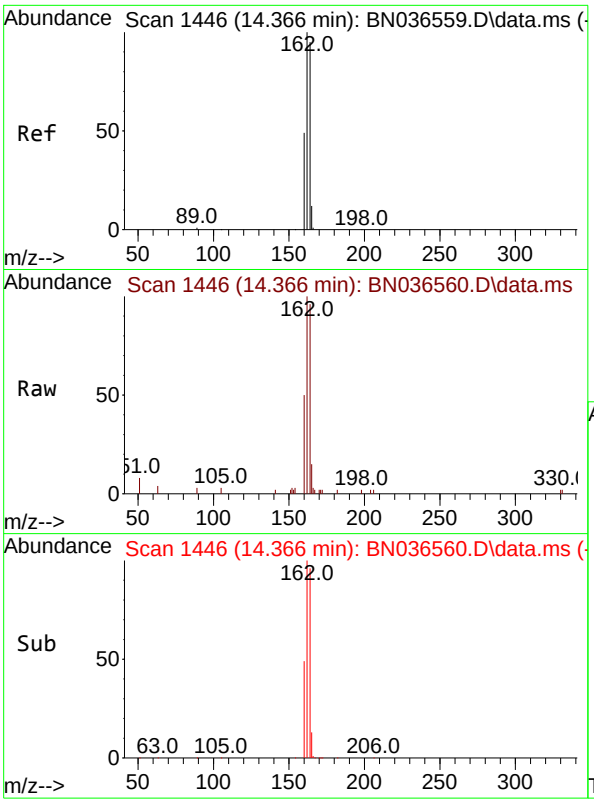


#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



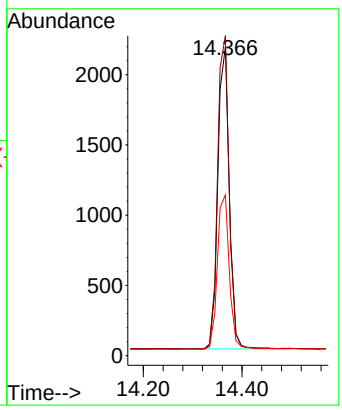


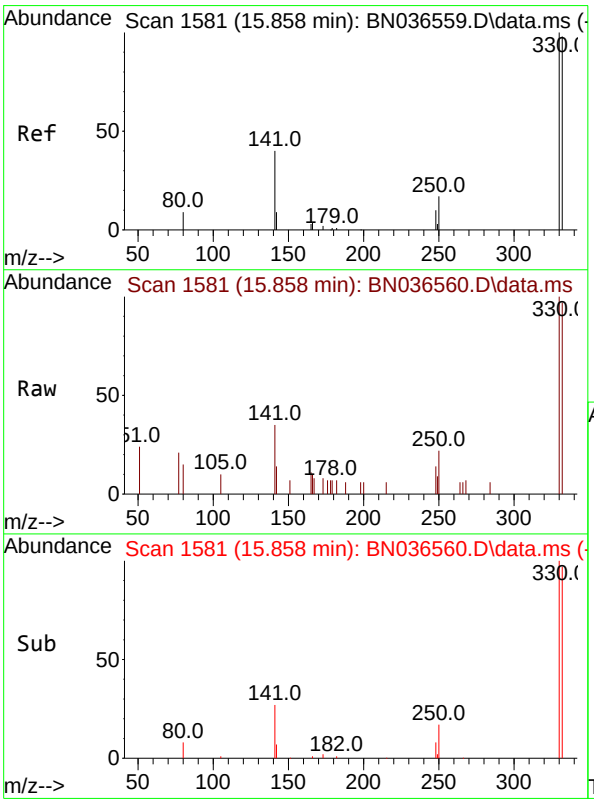
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

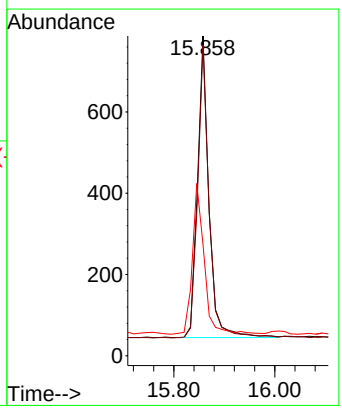


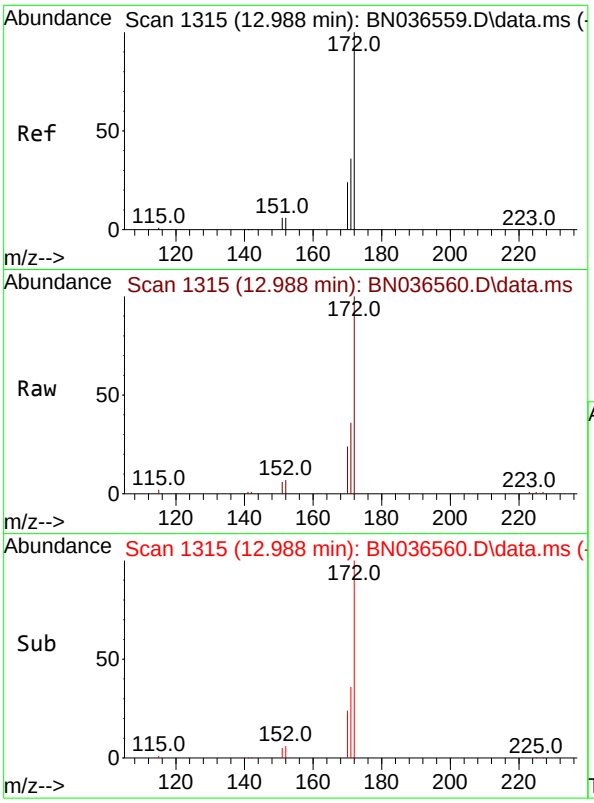


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



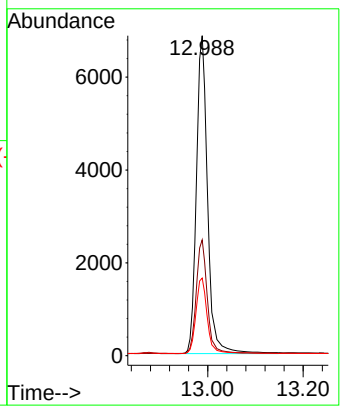


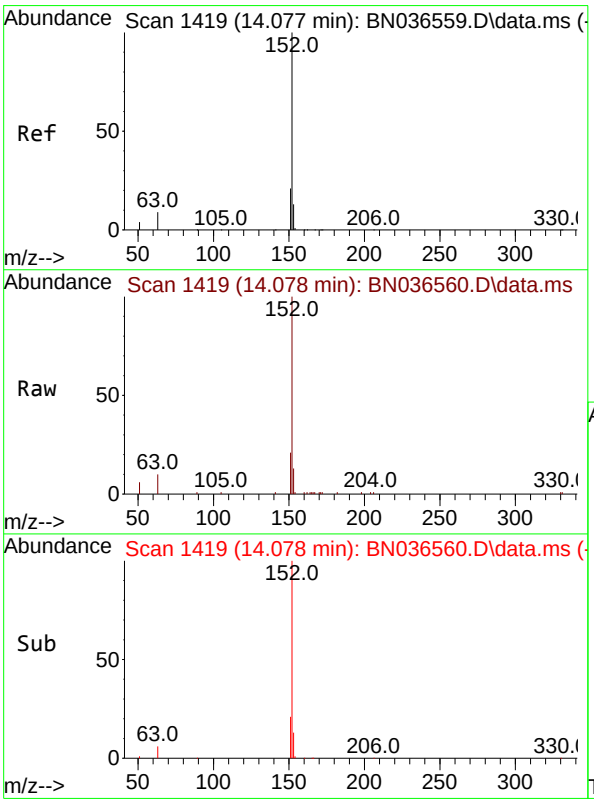
#15
2-Fluorobiphenyl
Concen: 0.808 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

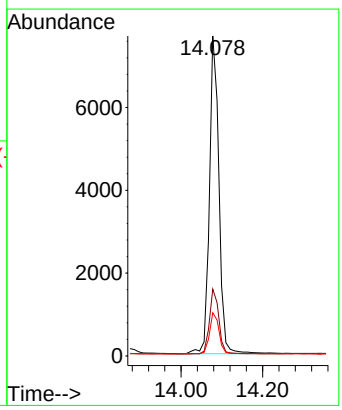


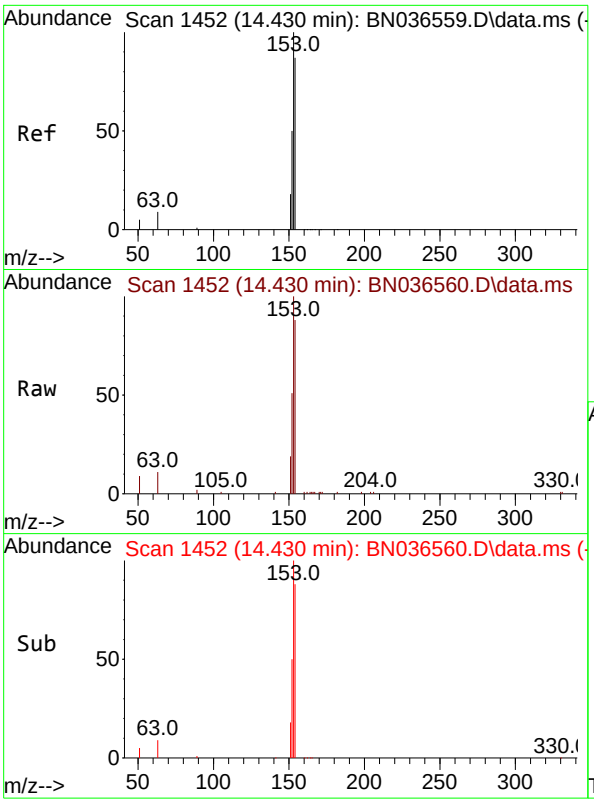


#16
Acenaphthylene
Concen: 0.760 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



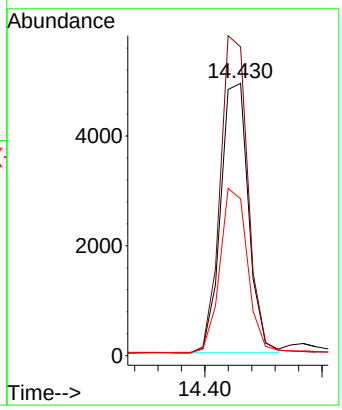


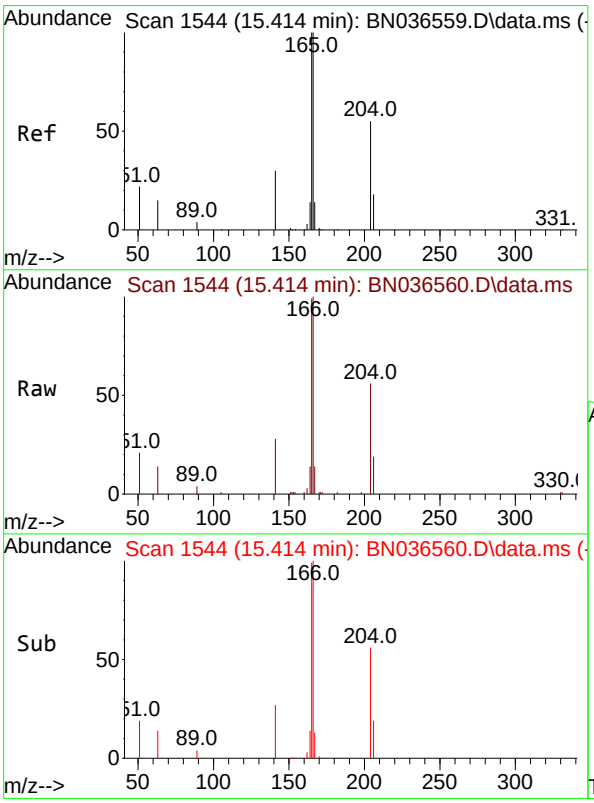
#17
Acenaphthene
Concen: 0.758 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

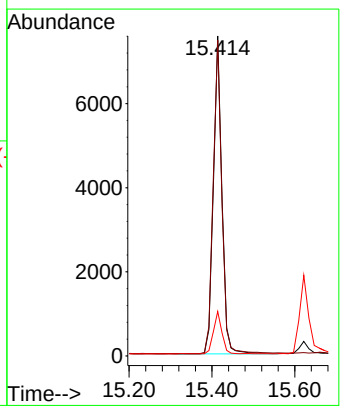


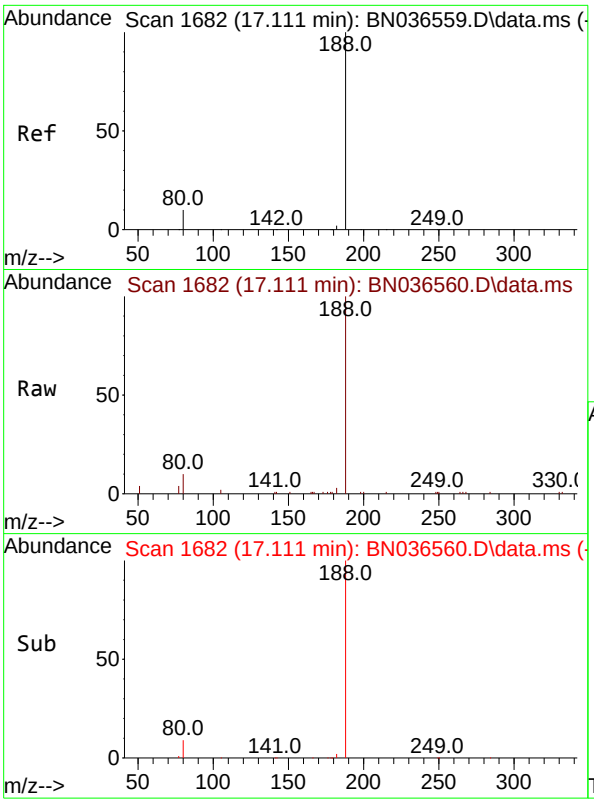


#18
Fluorene
Concen: 0.770 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



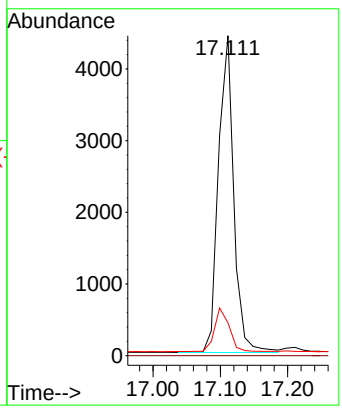


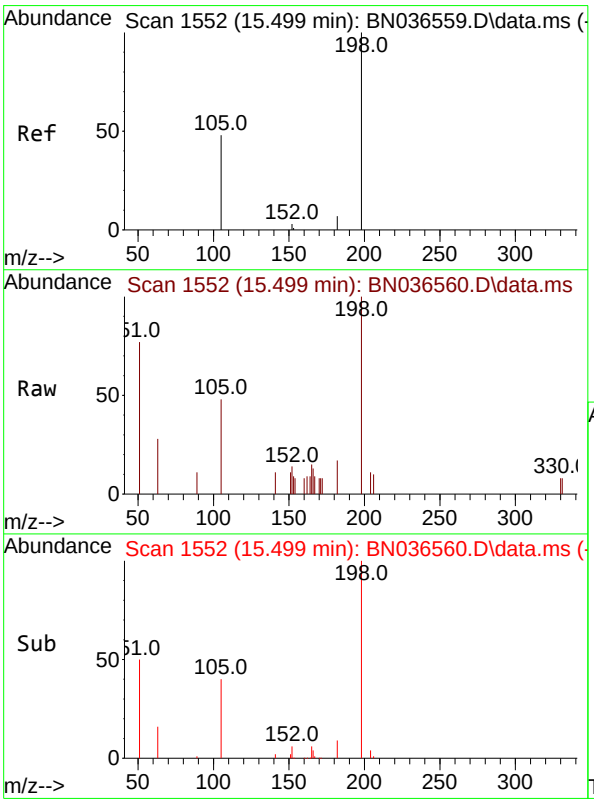
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

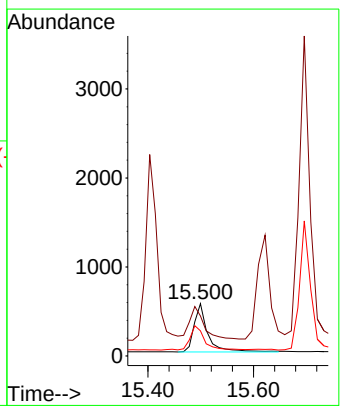


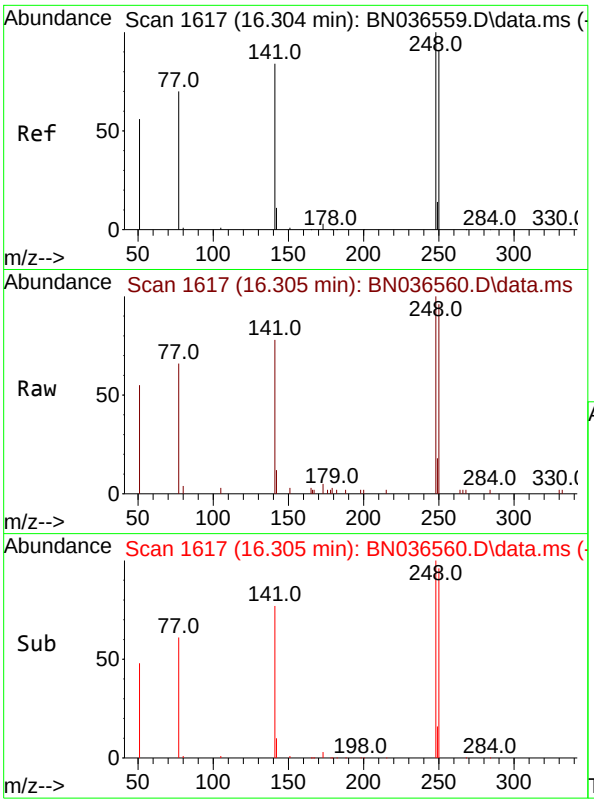


#20
4,6-Dinitro-2-methylphenol
Concen: 0.724 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#



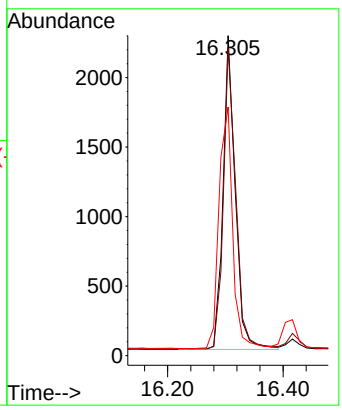


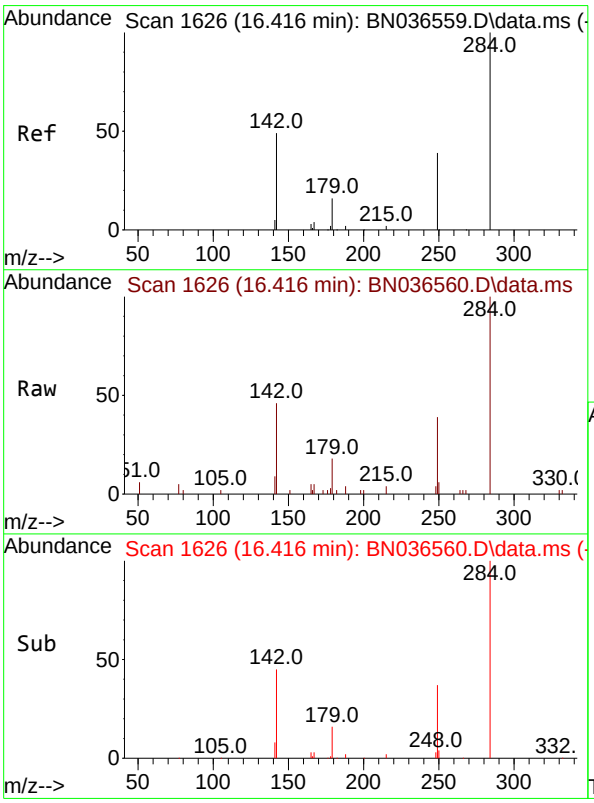
#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

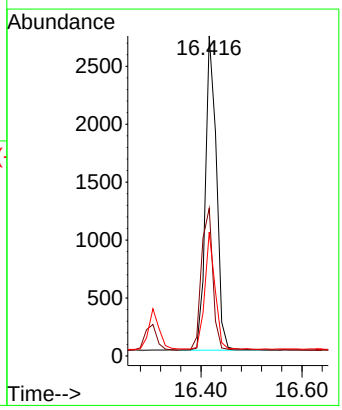


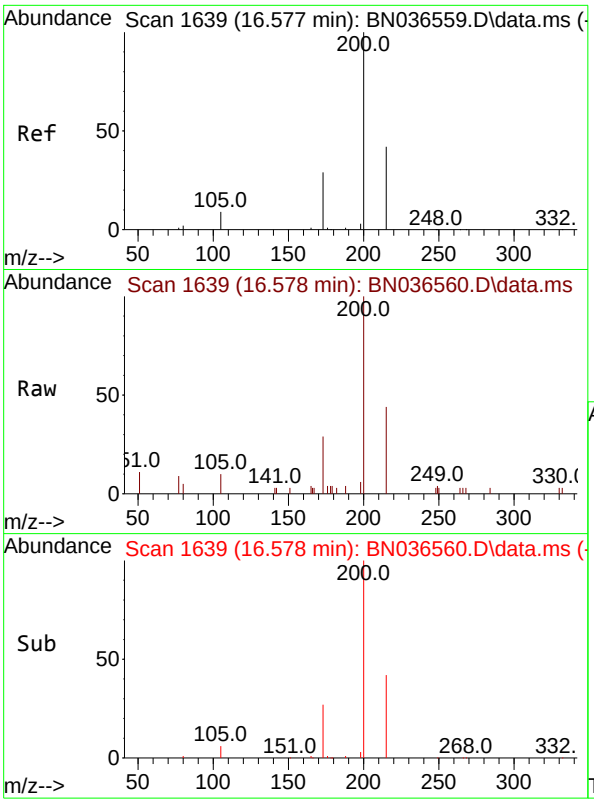


#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



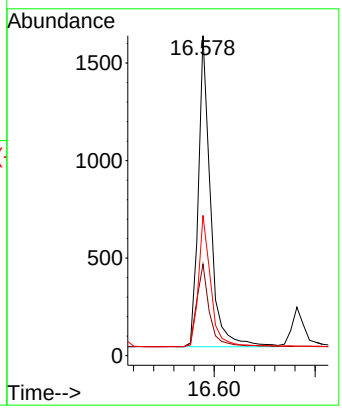


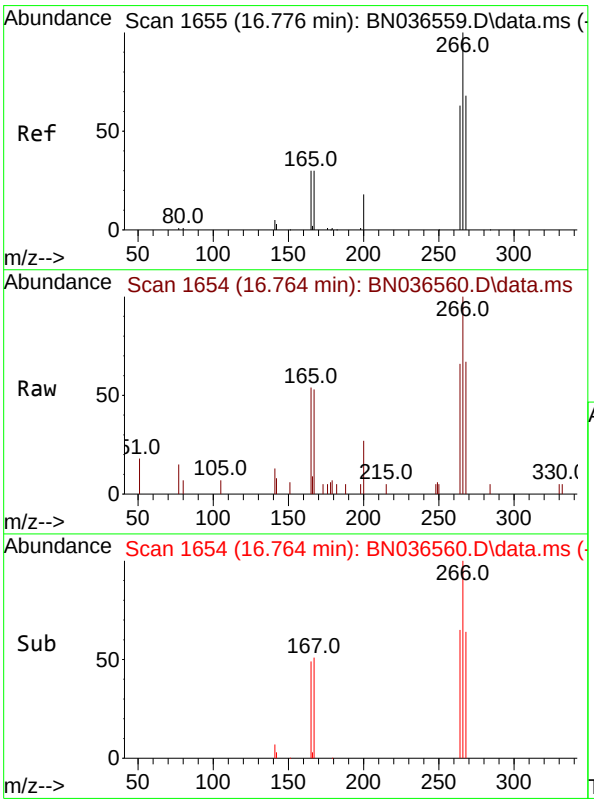
#23
Atrazine
Concen: 0.764 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

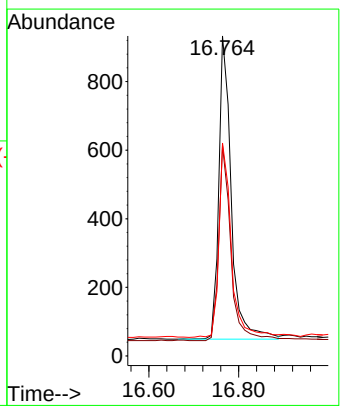


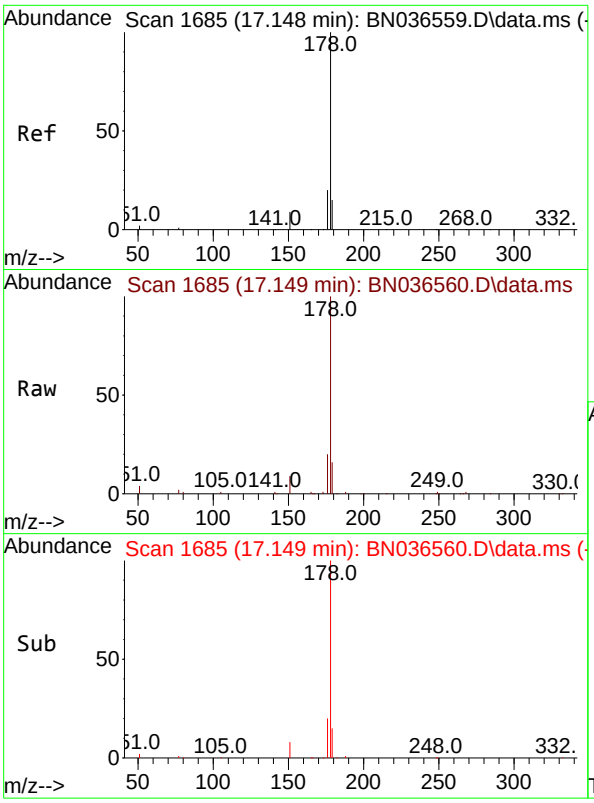


#24
Pentachlorophenol
Concen: 0.707 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



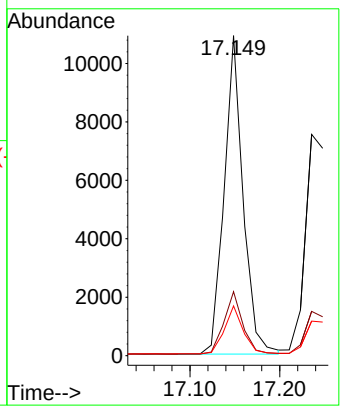


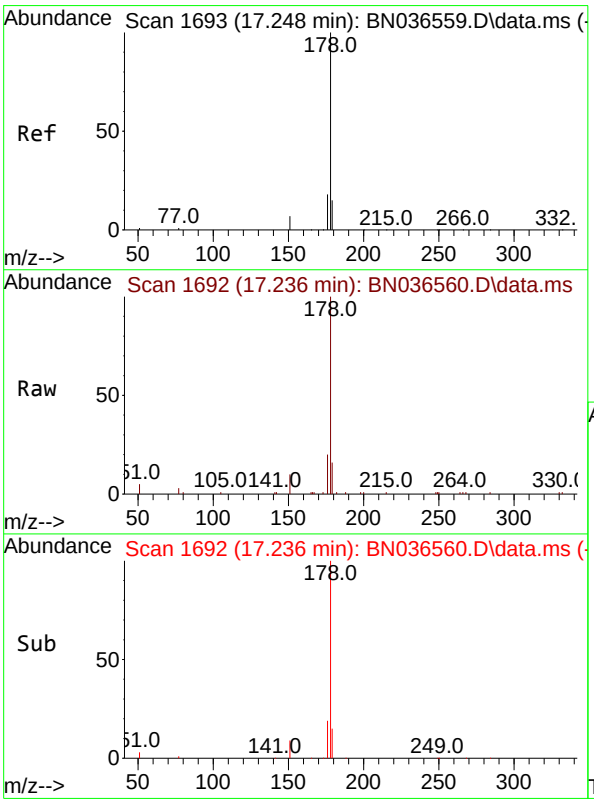
#25
Phenanthrene
Concen: 0.761 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

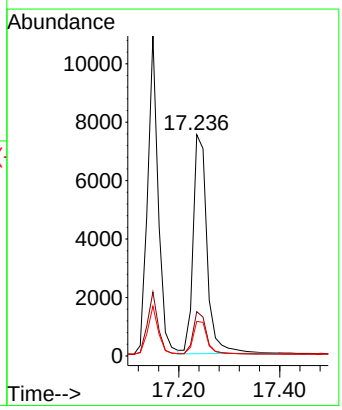


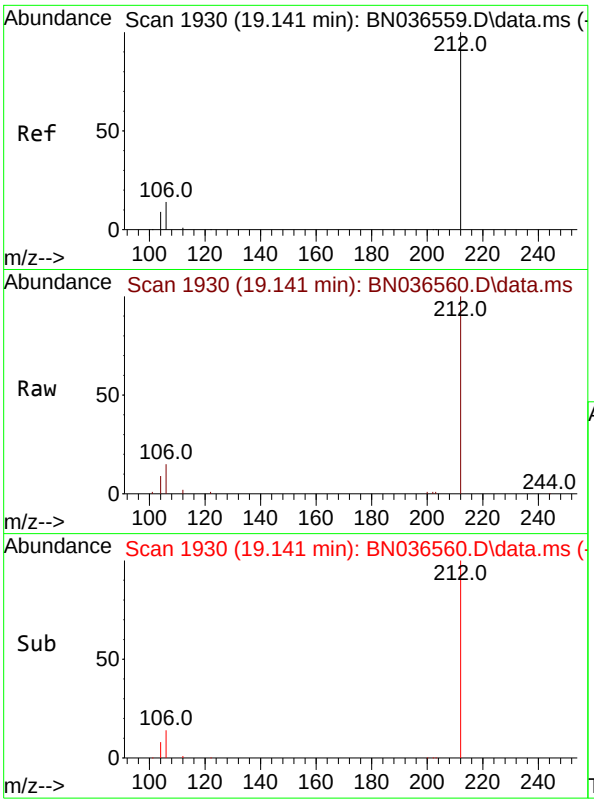


#26
Anthracene
Concen: 0.763 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



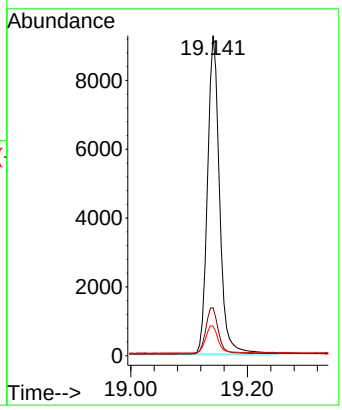


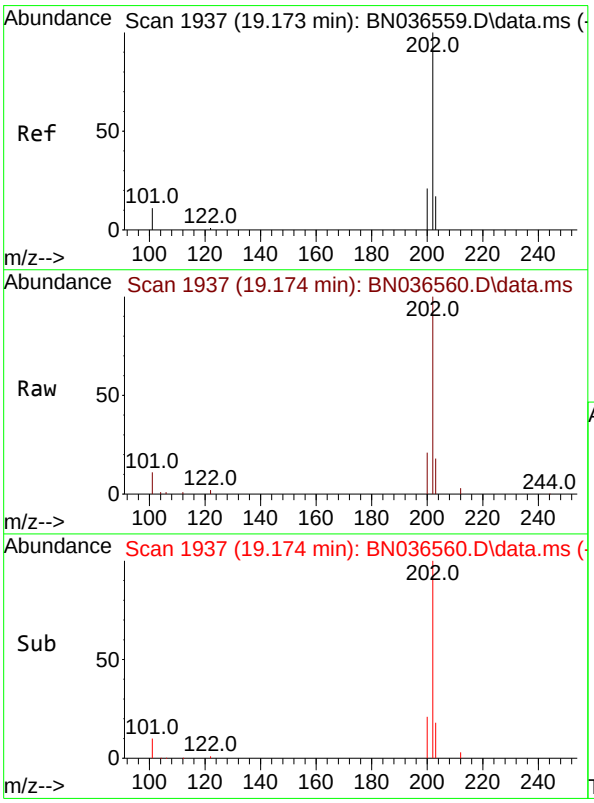
#27
Fluoranthene-d10
Concen: 0.746 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

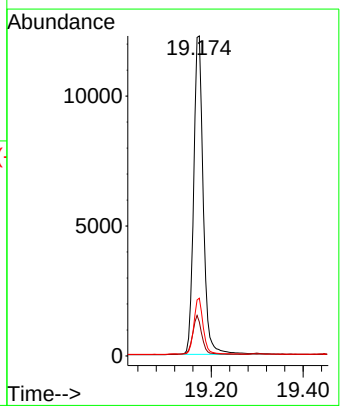


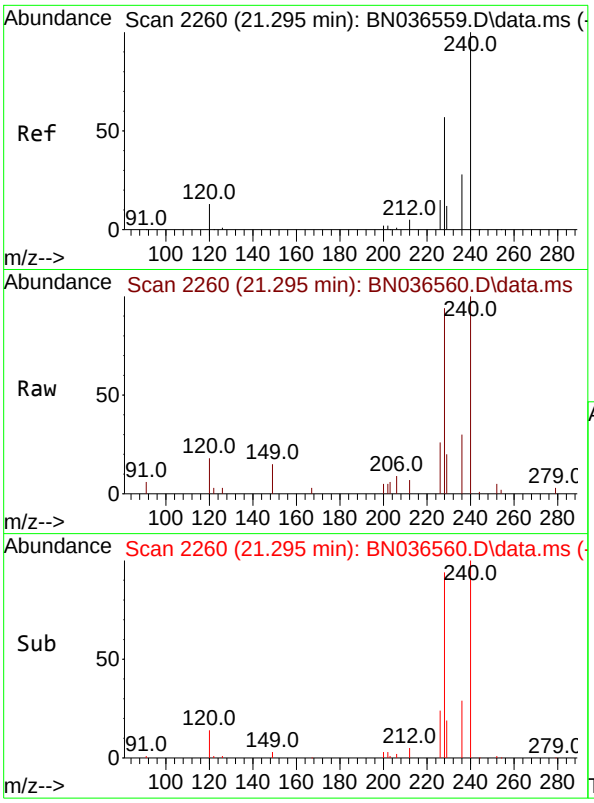


#28
Fluoranthene
Concen: 0.755 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



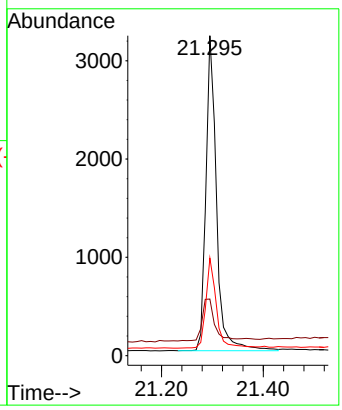


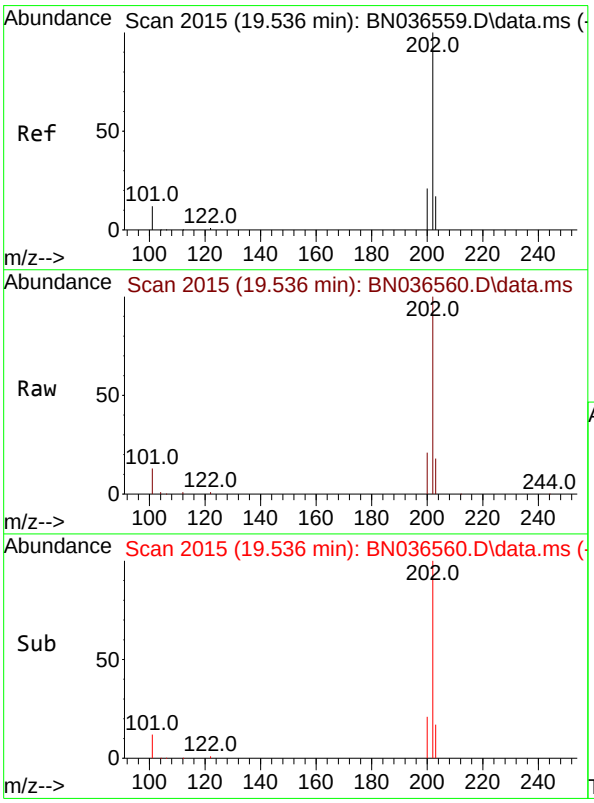
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

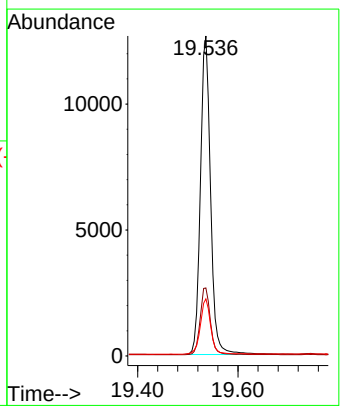


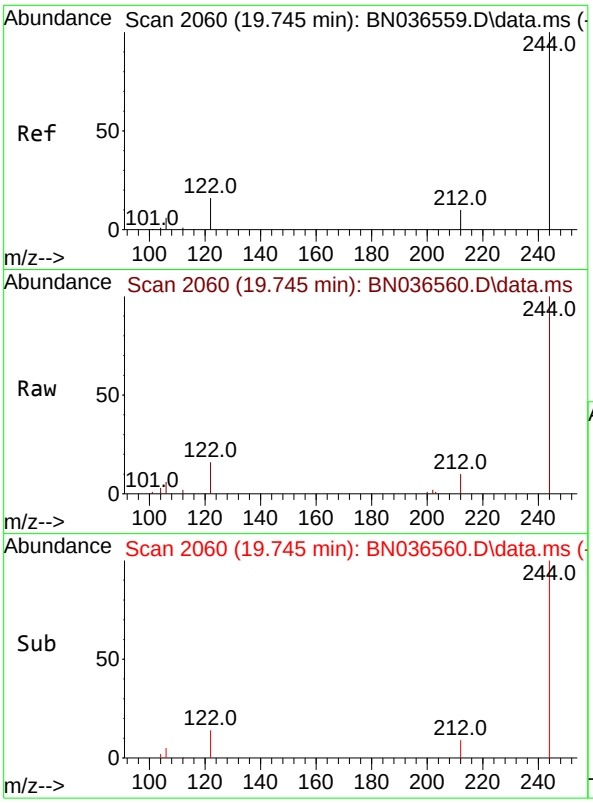


#30
Pyrene
Concen: 0.781 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



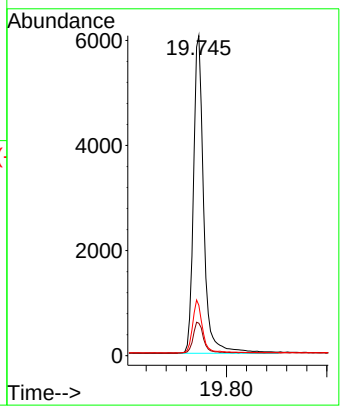


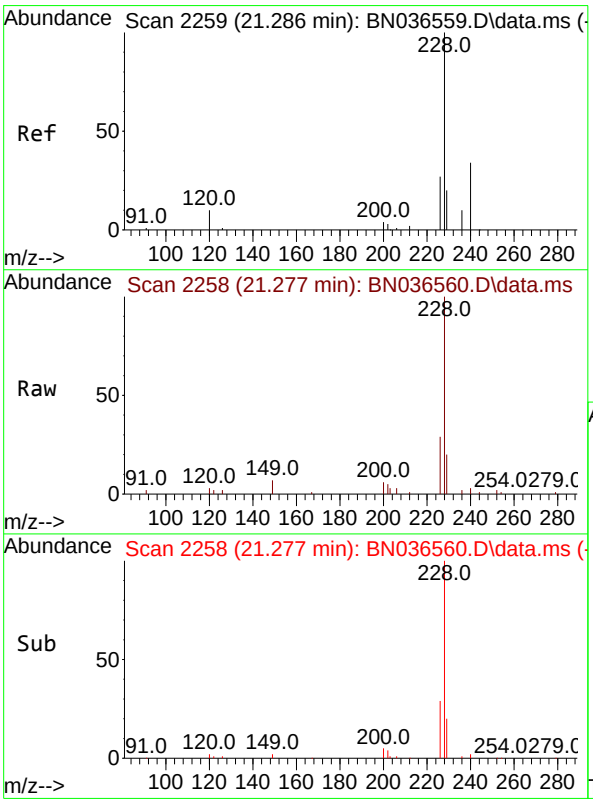
#31
Terphenyl-d14
Concen: 0.772 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

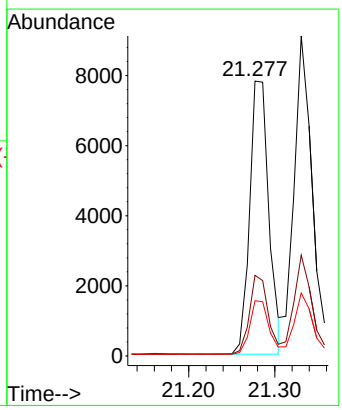


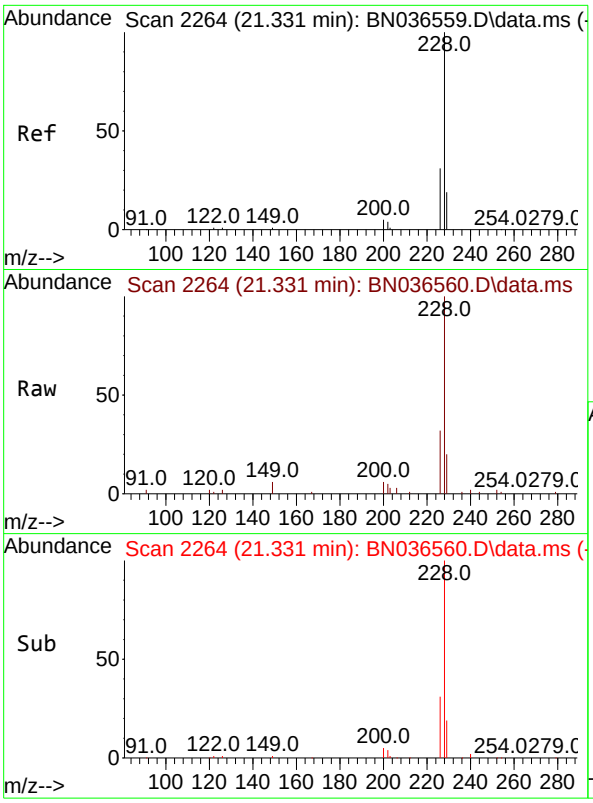


#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



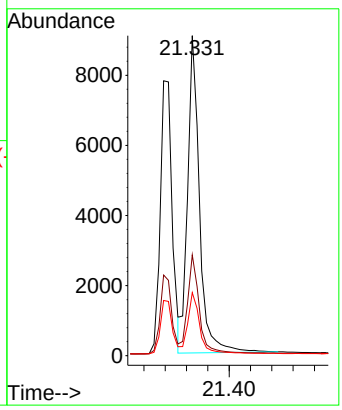


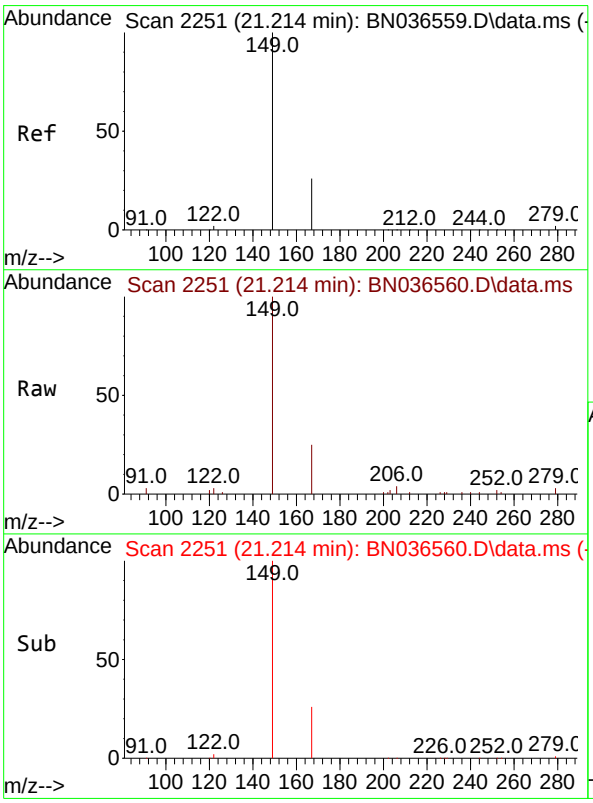
#33
Chrysene
Concen: 0.793 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

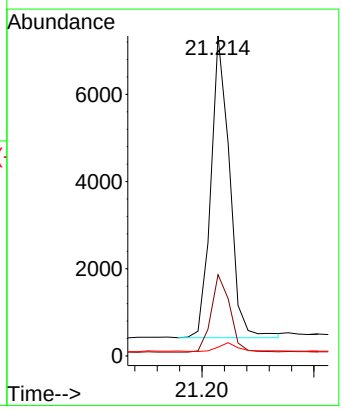


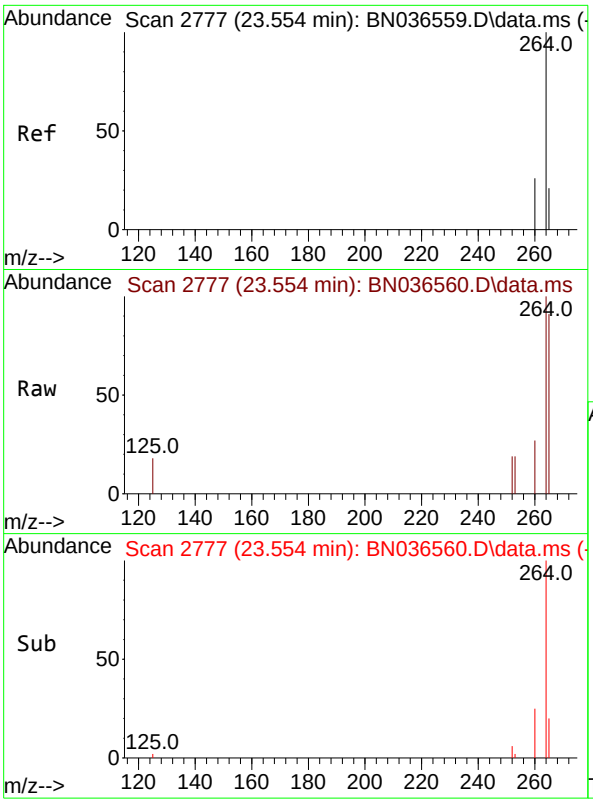


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.699 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#



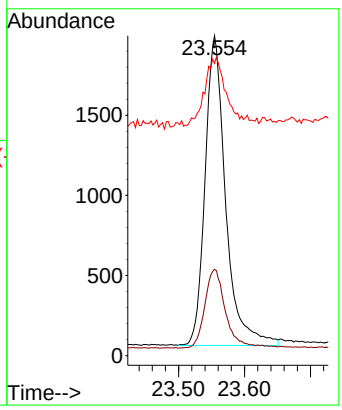


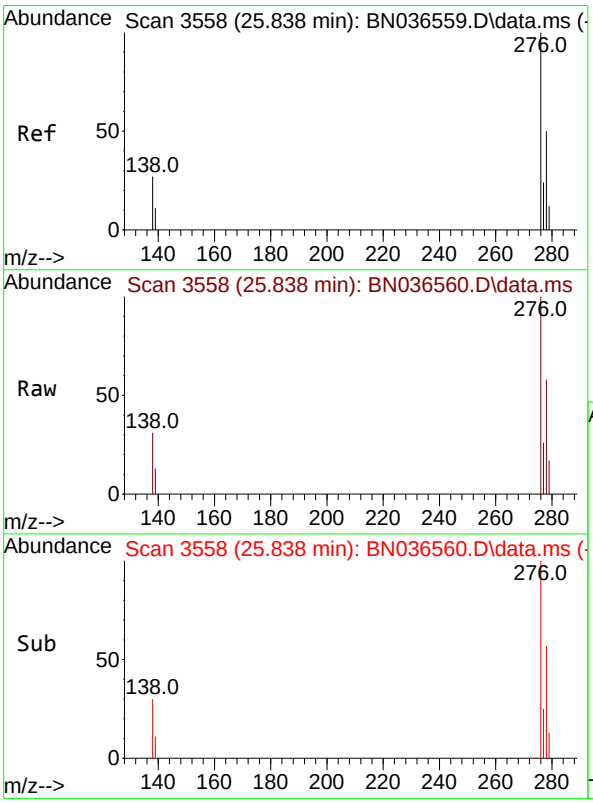
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

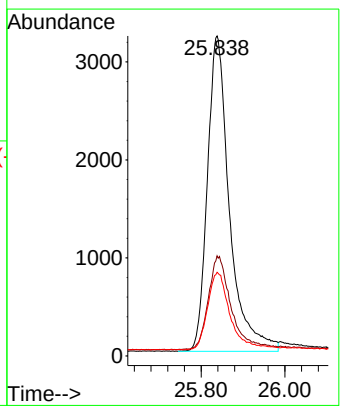


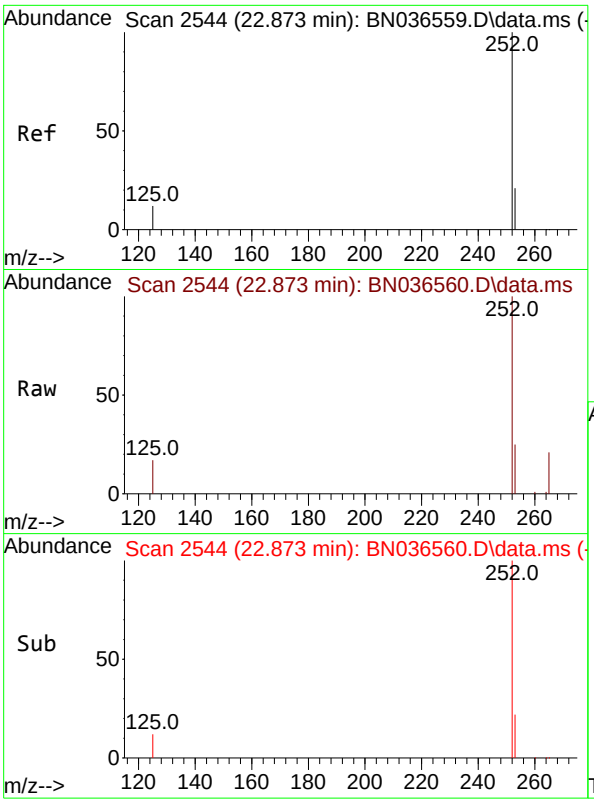


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.778 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



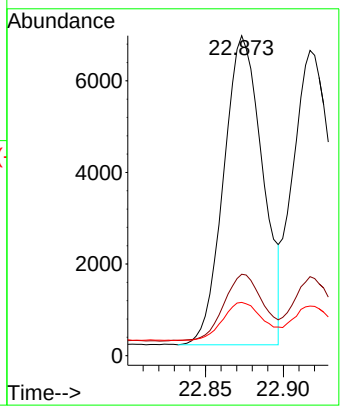


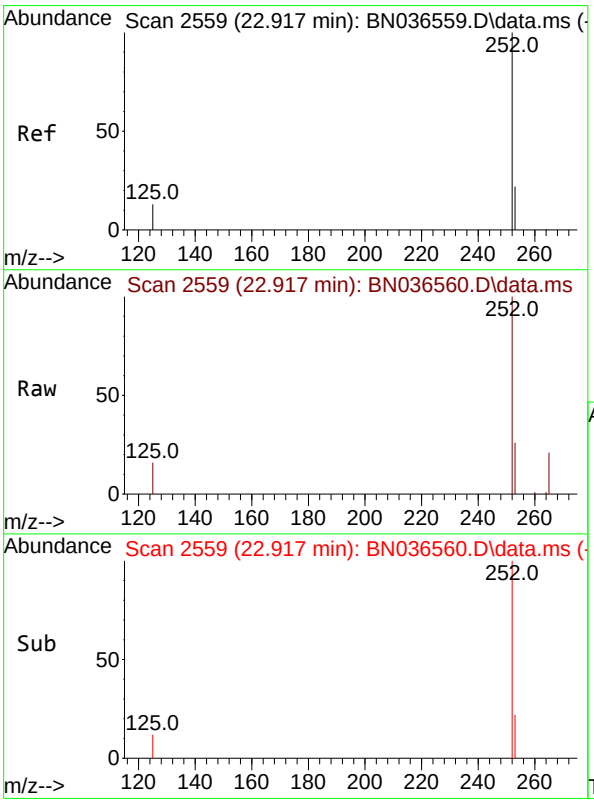
#37
Benzo(b)fluoranthene
Concen: 0.770 ng
RT: 22.873 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#

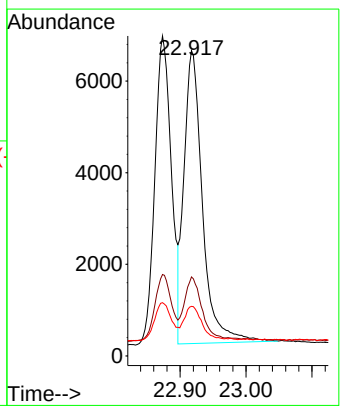


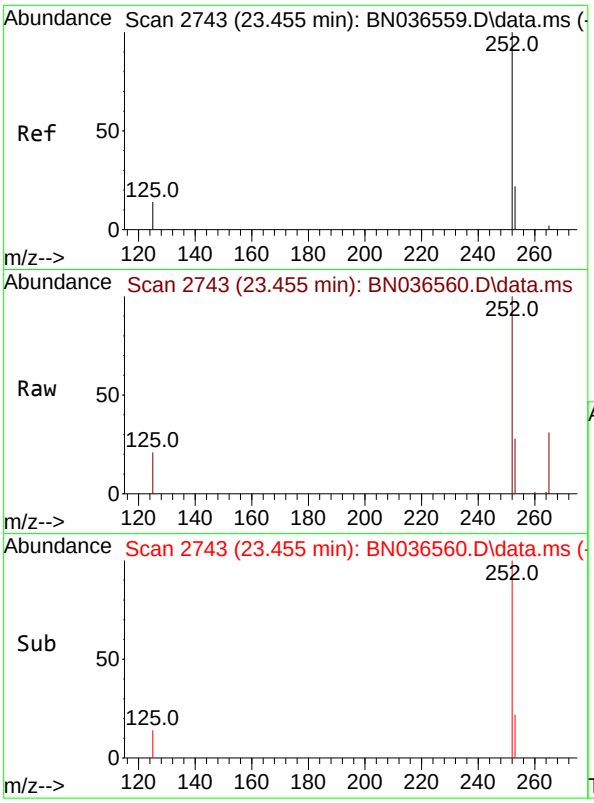


#38
Benzo(k)fluoranthene
Concen: 0.776 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#



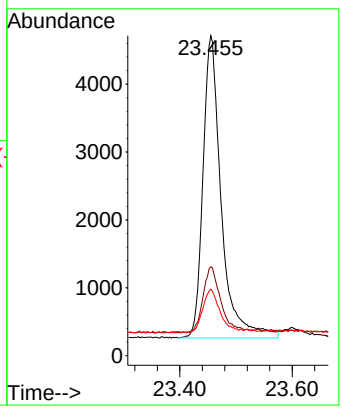


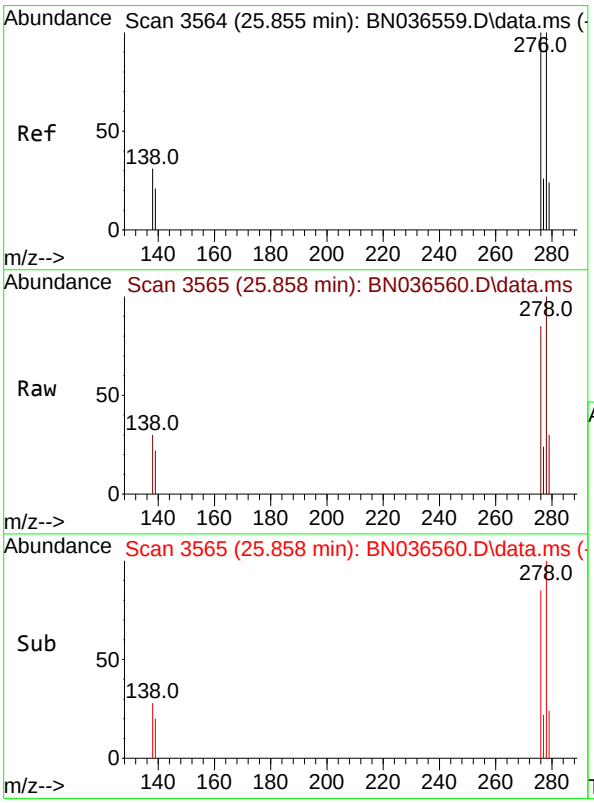
#39
Benzo(a)pyrene
Concen: 0.780 ng
RT: 23.455 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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#

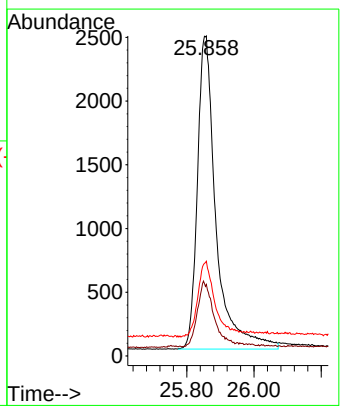


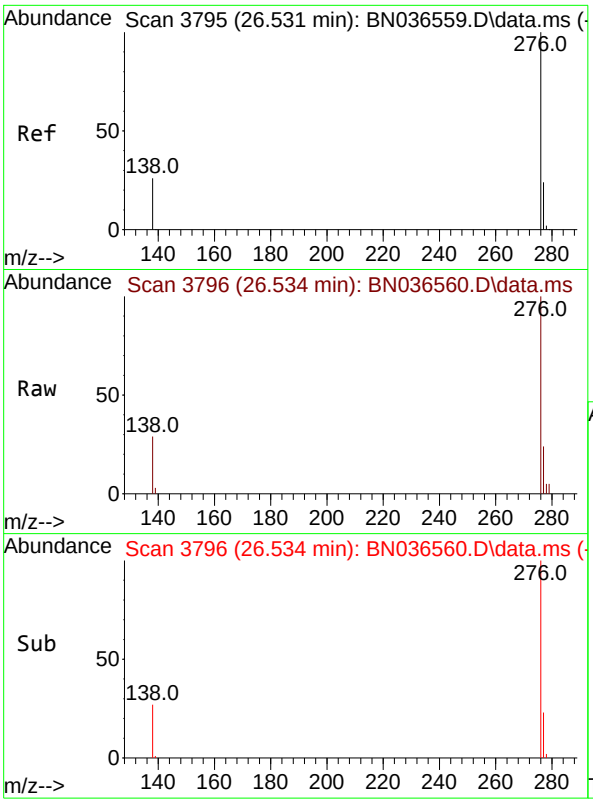


#40
Dibenzo(a,h)anthracene
Concen: 0.801 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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



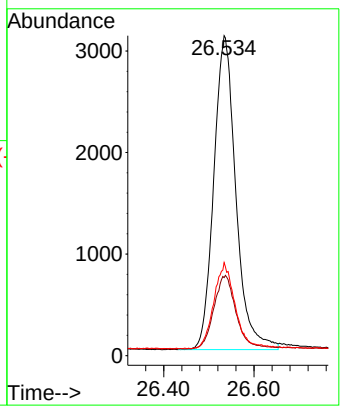


#41
Benzo(g,h,i)perylene
Concen: 0.778 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

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

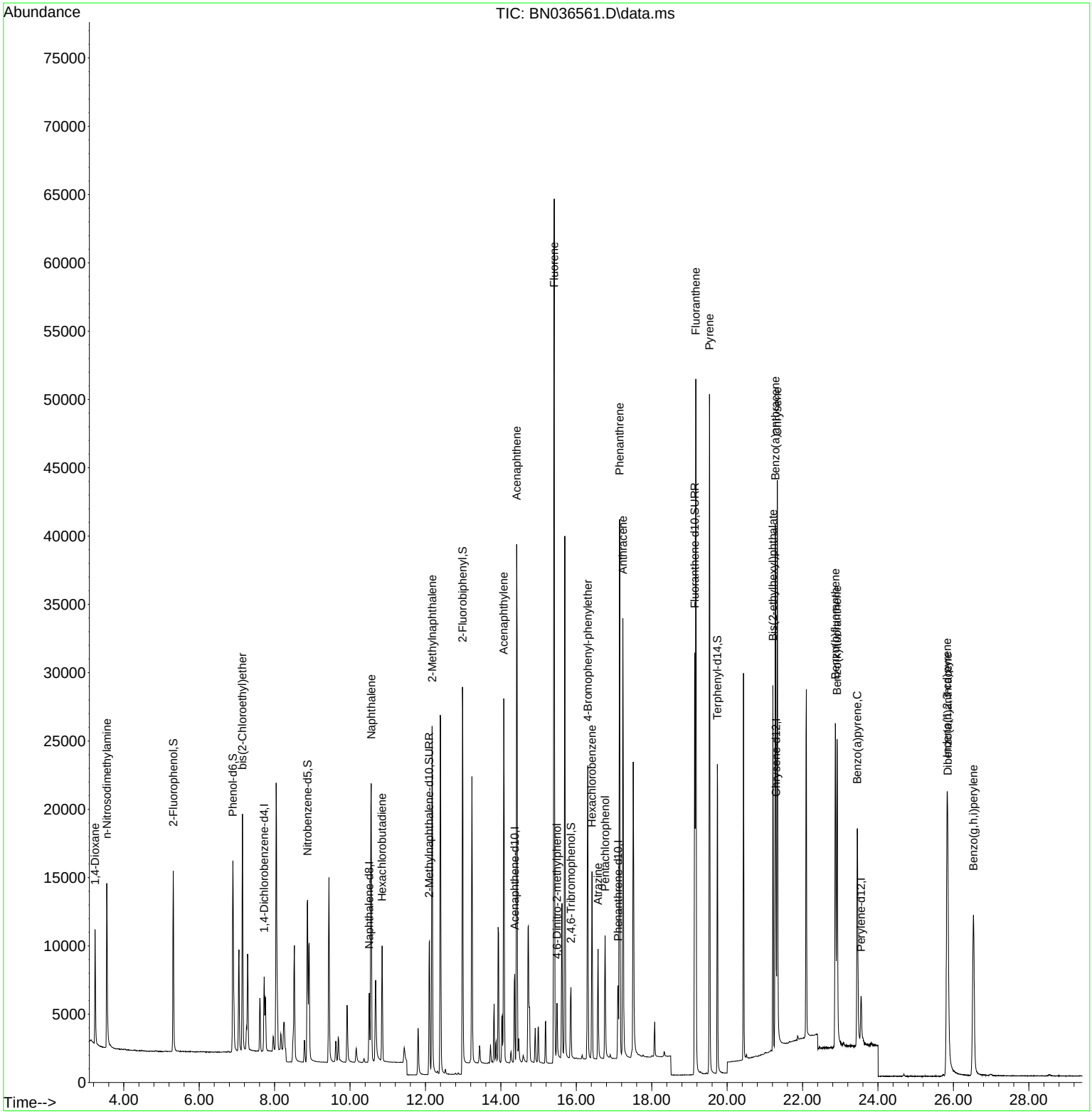
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng		0.00
29) Chrysene-d12	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

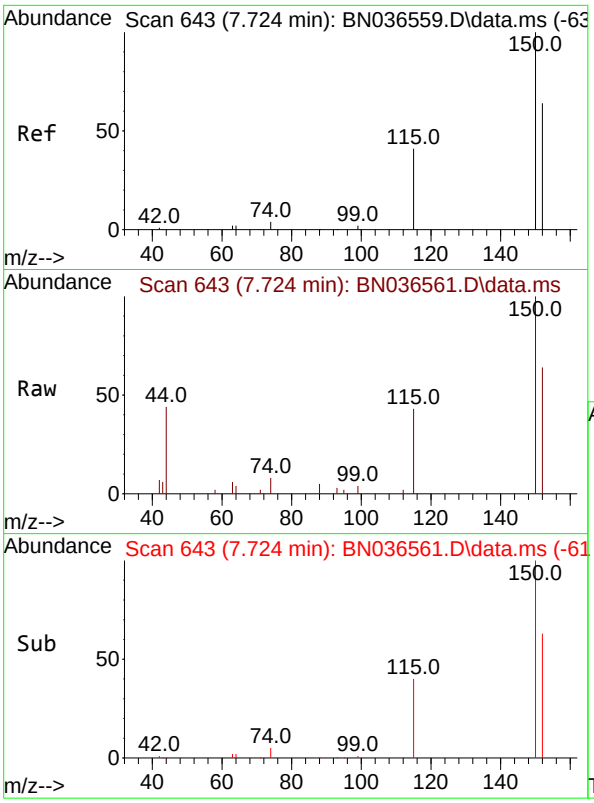
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



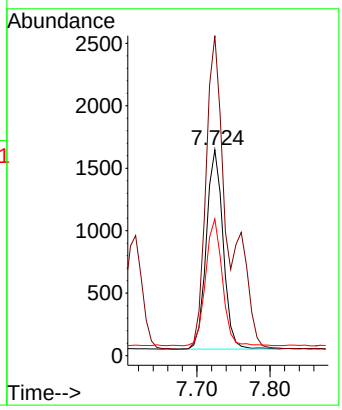


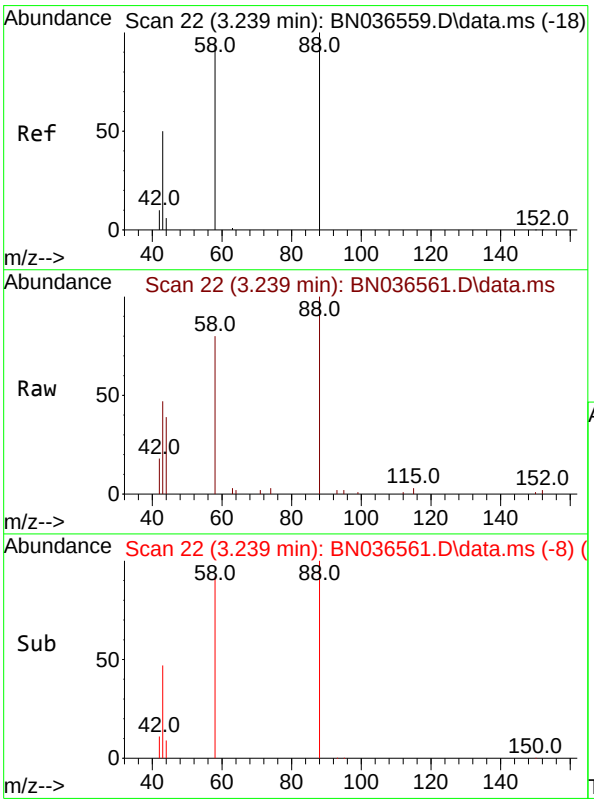
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

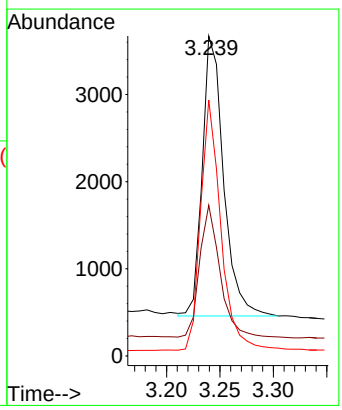


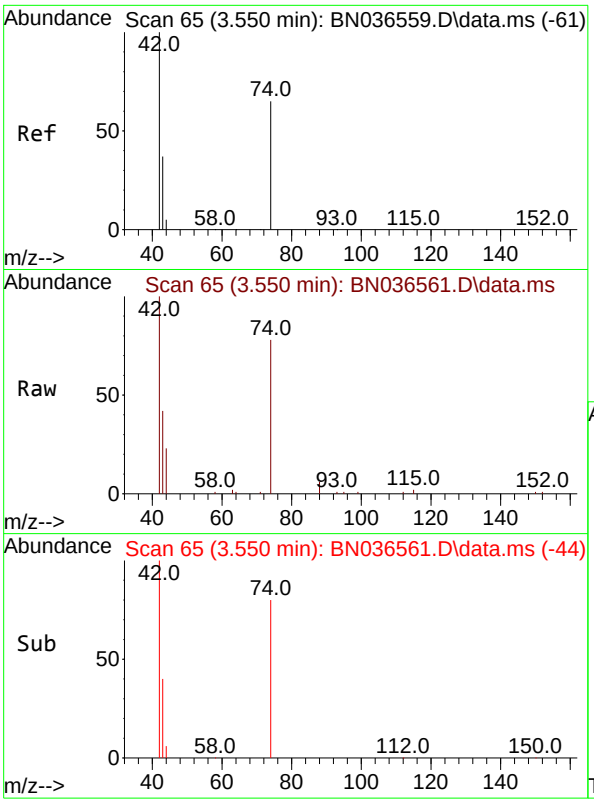


#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



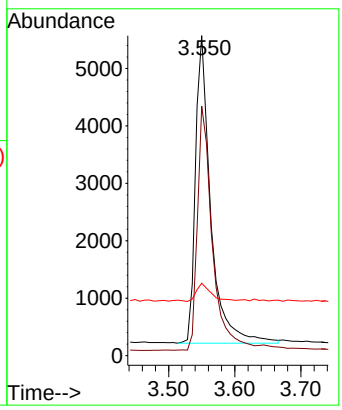


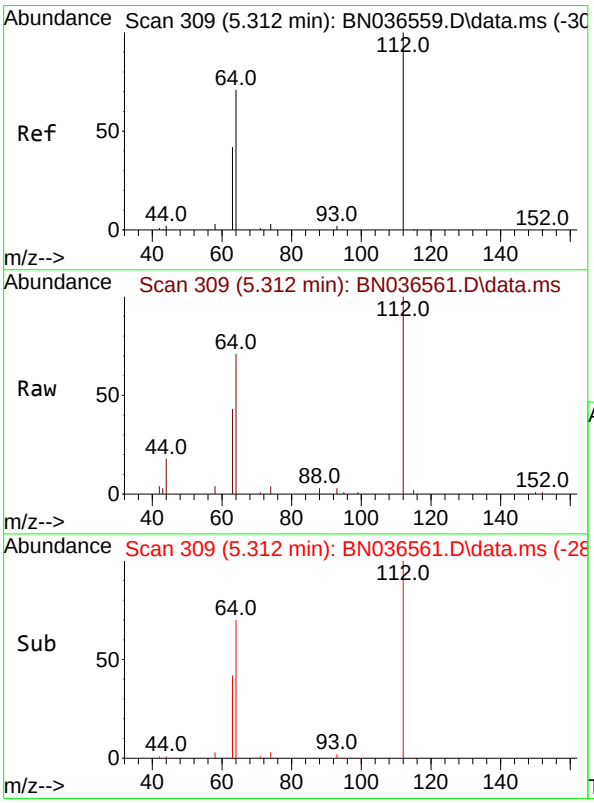
#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

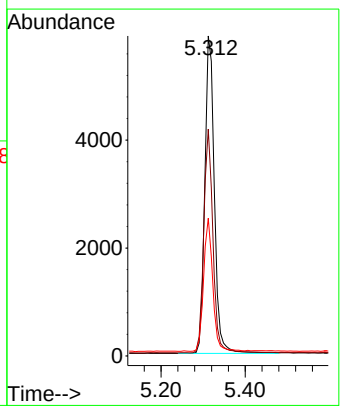


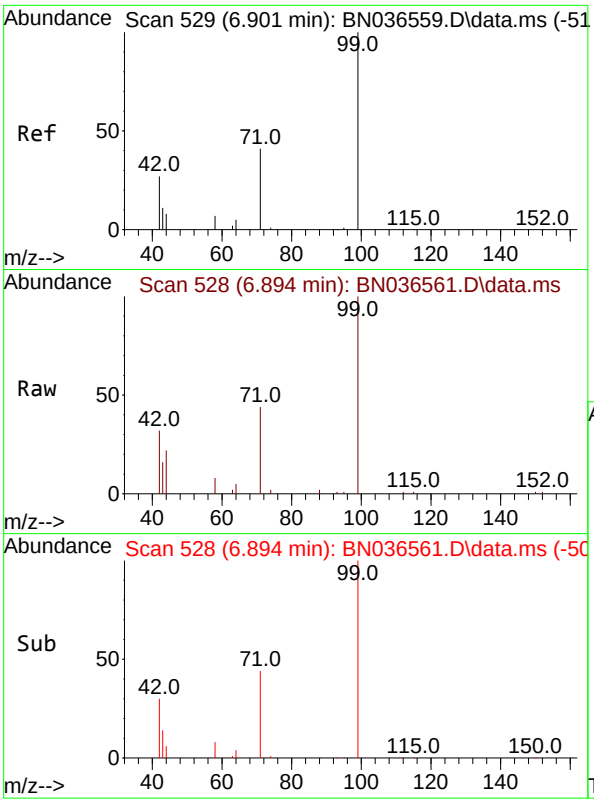


#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



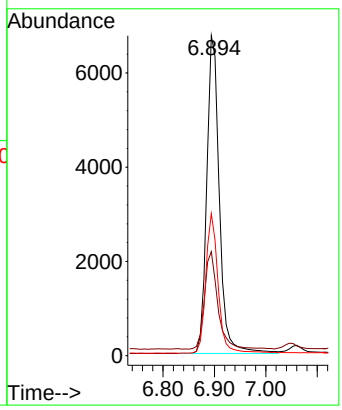


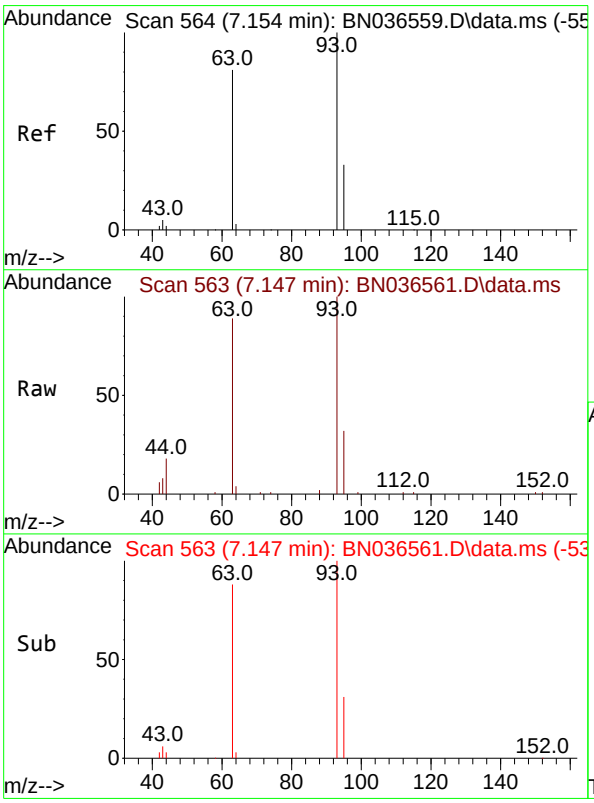
#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

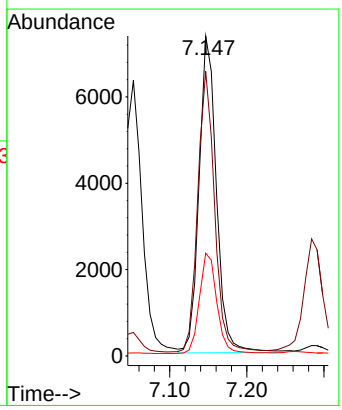


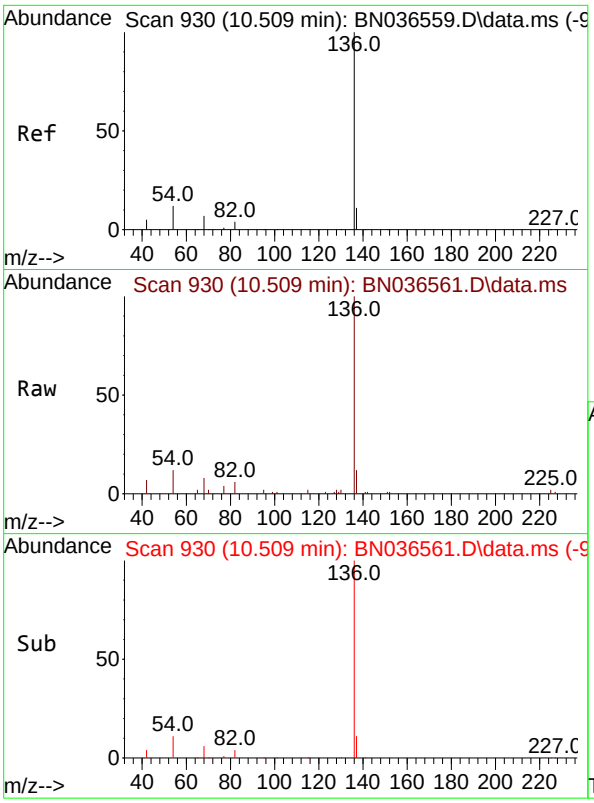


#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



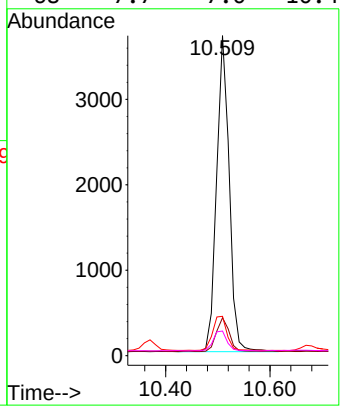


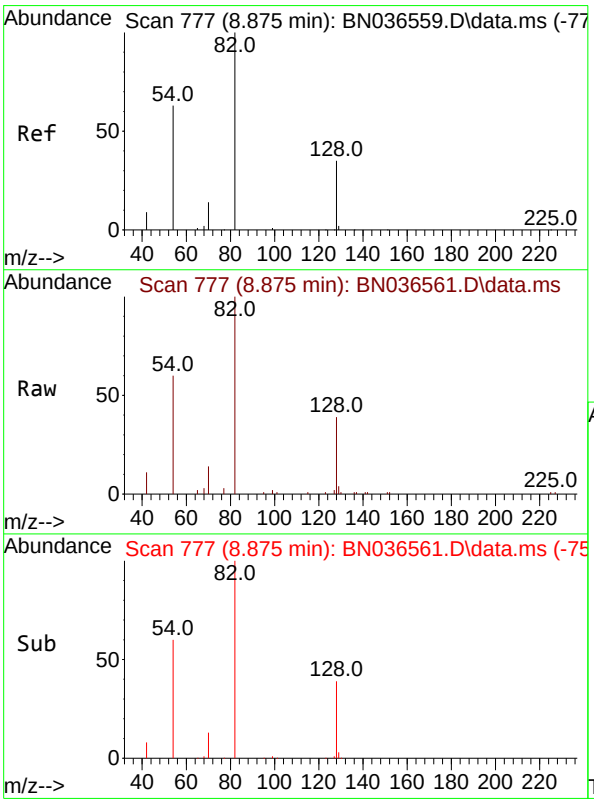
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

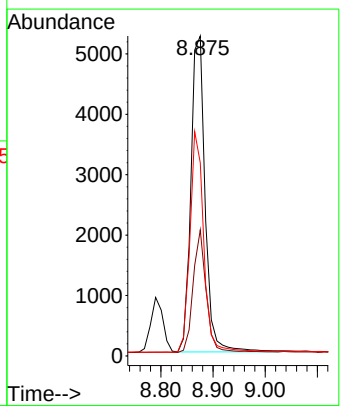


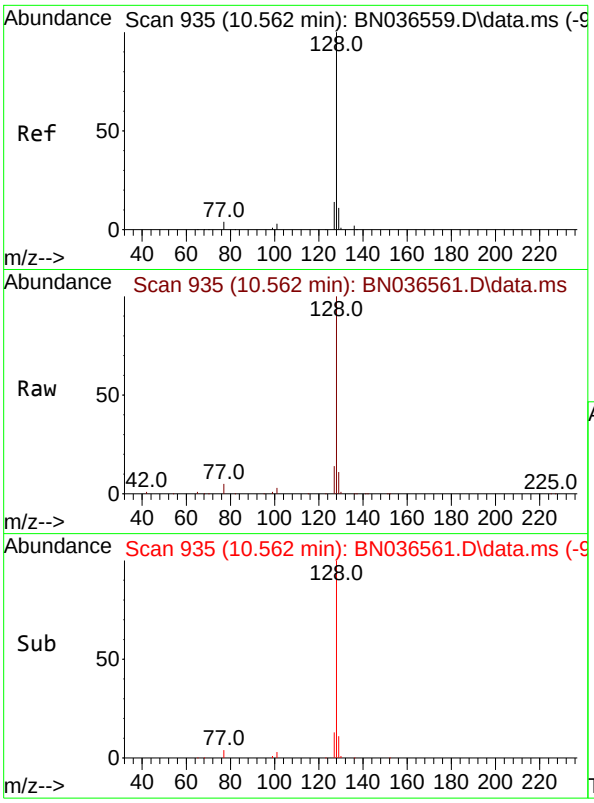


#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



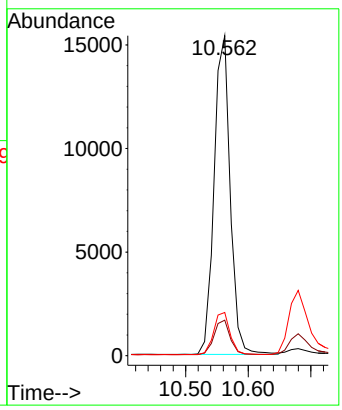


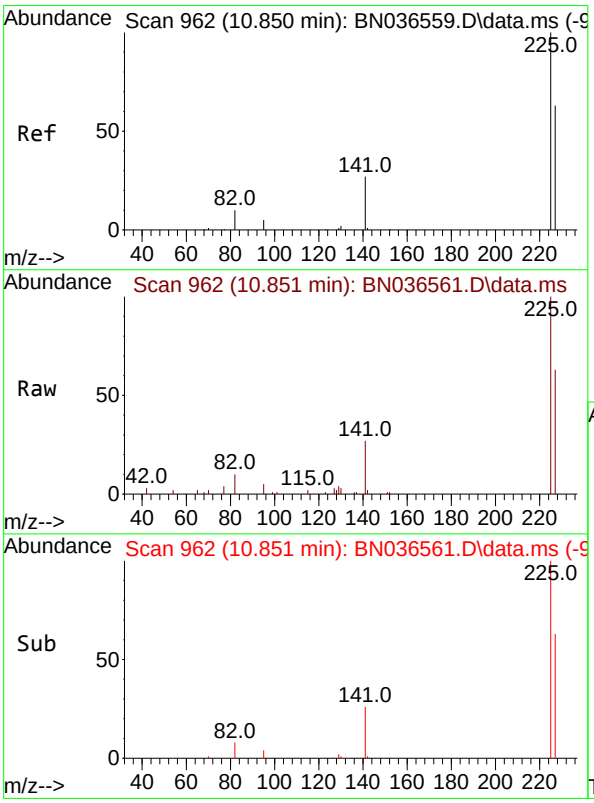
#9
Naphthalene
Concen: 1.506 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

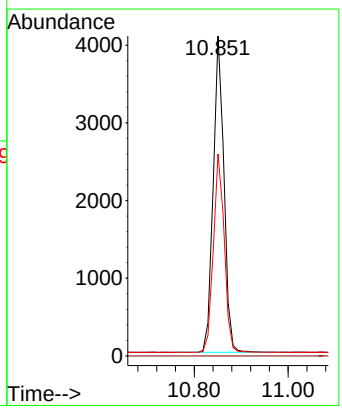


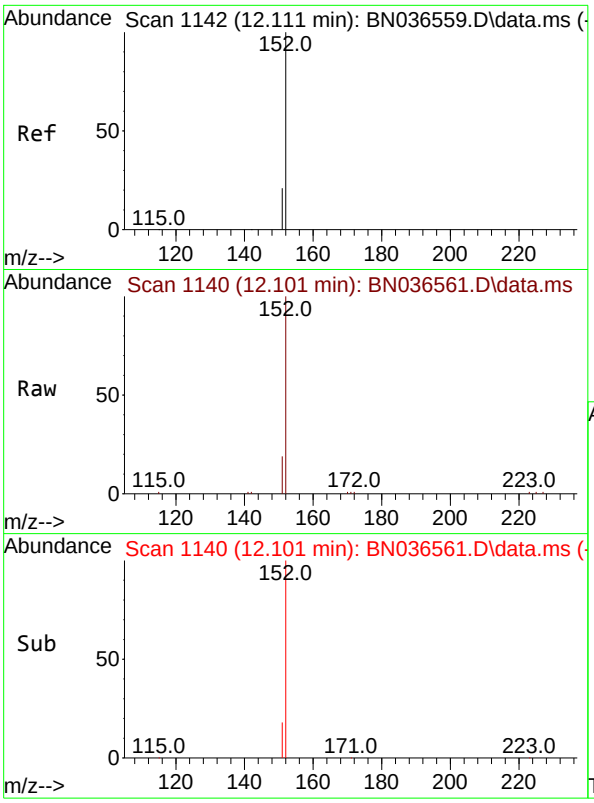


#10
Hexachlorobutadiene
Concen: 1.506 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



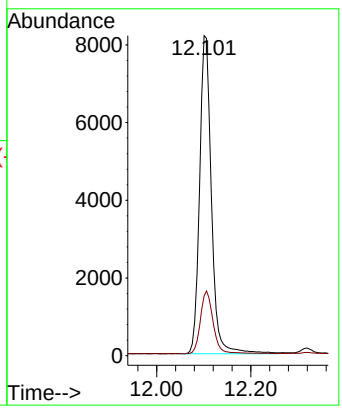


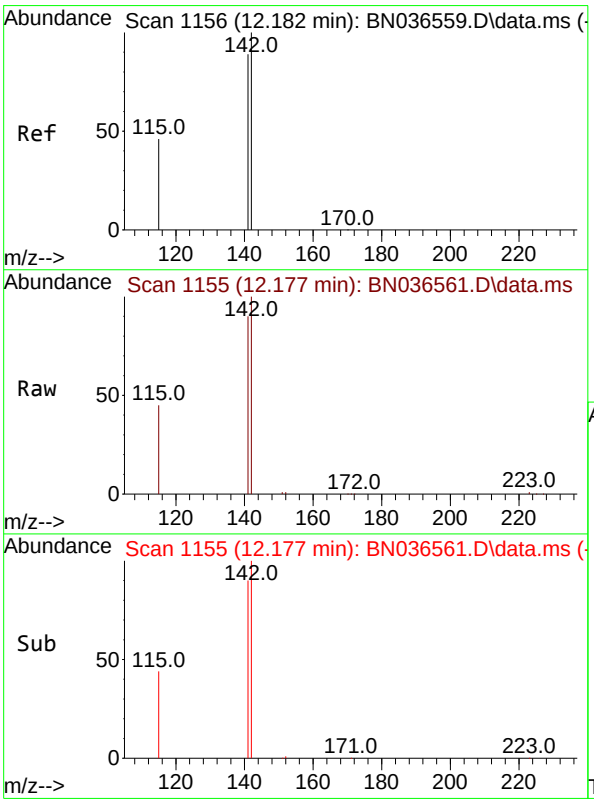
#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 14319

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

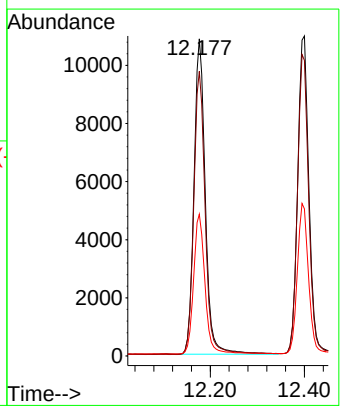


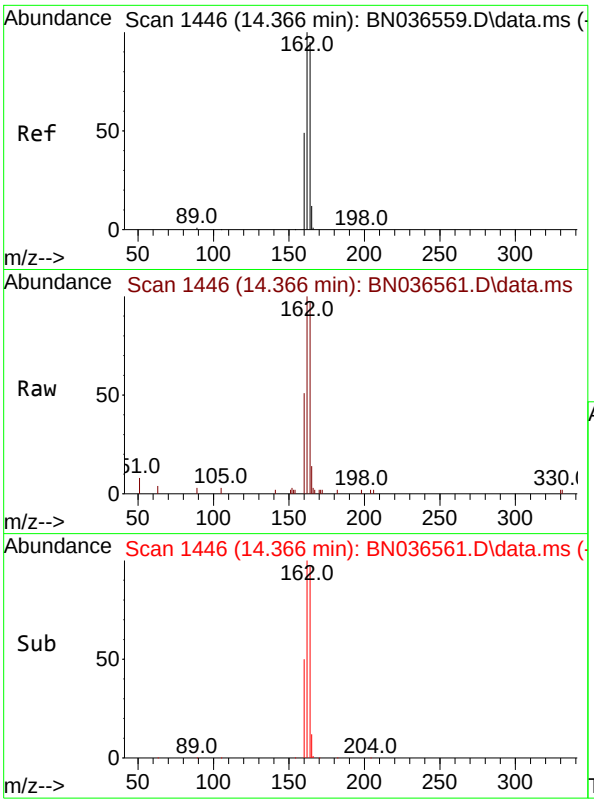


#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



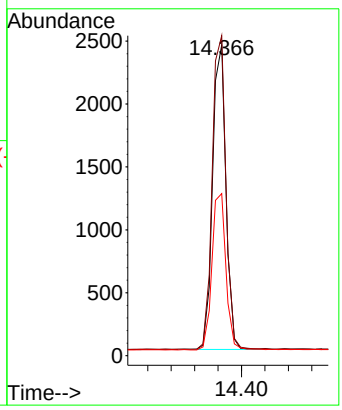


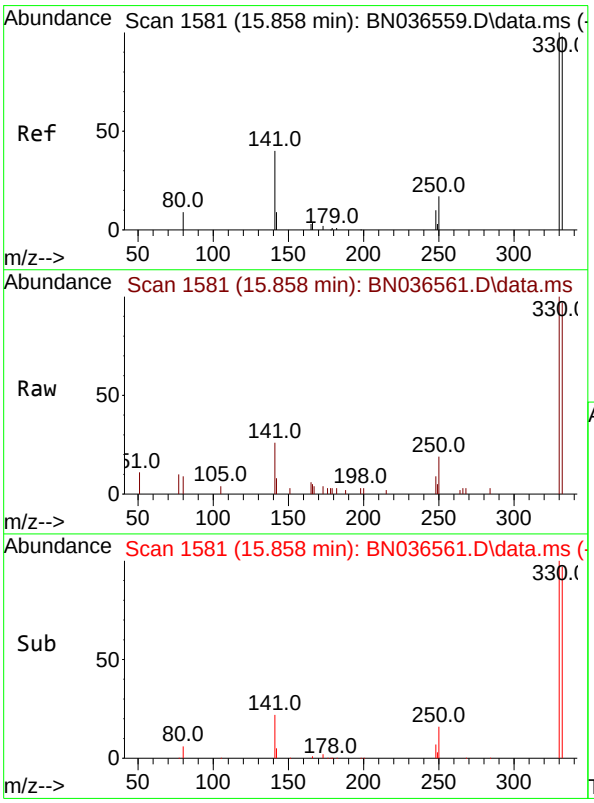
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

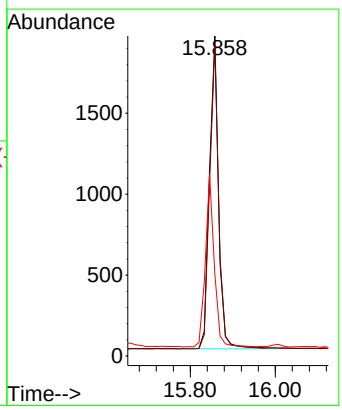


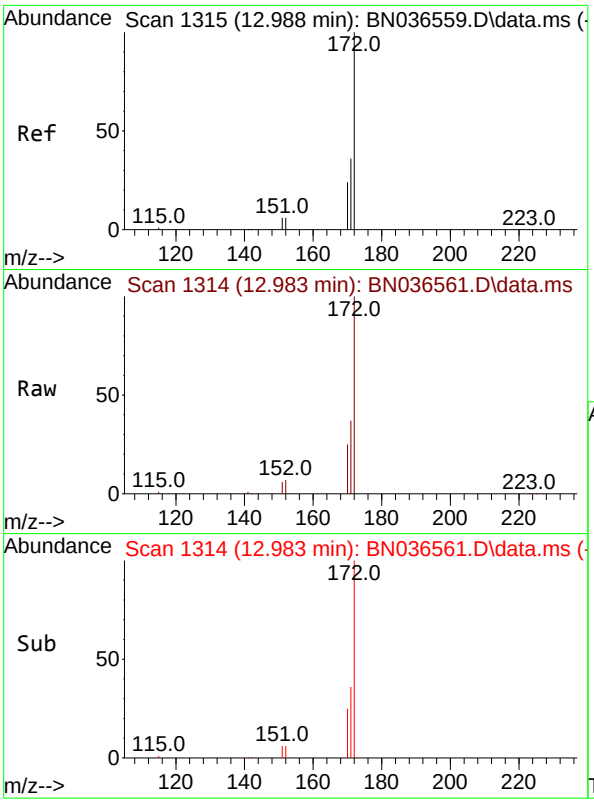


#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



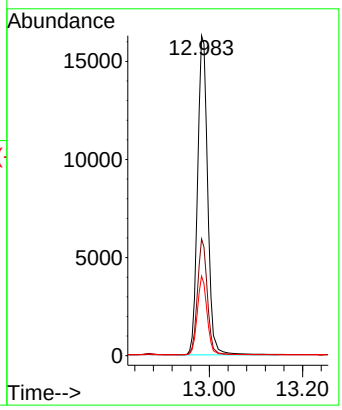


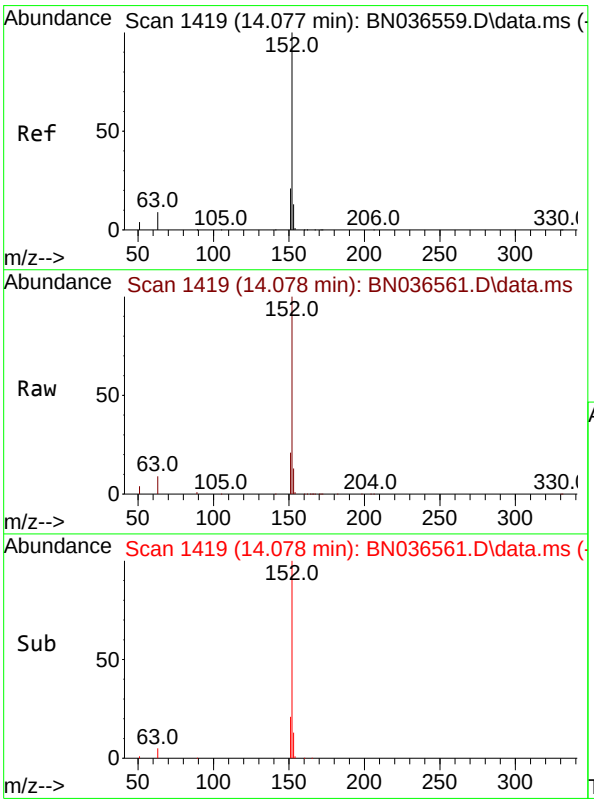
#15
2-Fluorobiphenyl
Concen: 1.626 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

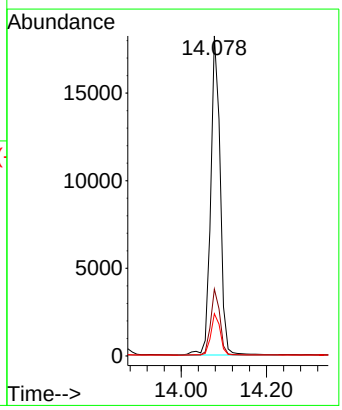


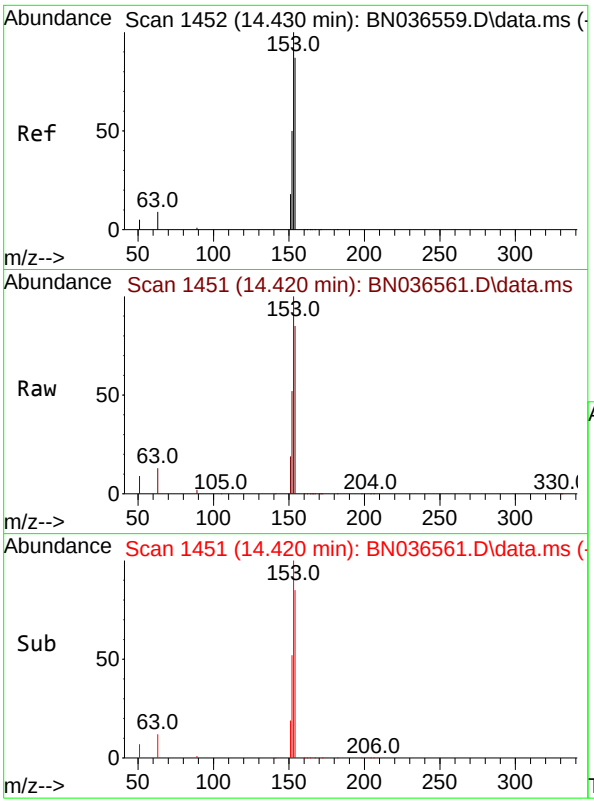


#16
Acenaphthylene
Concen: 1.555 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



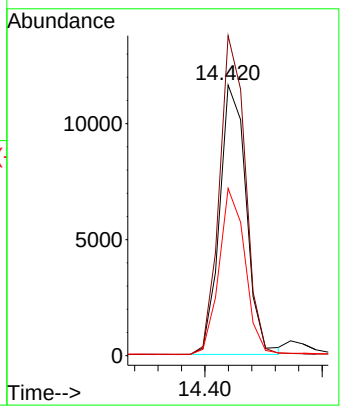


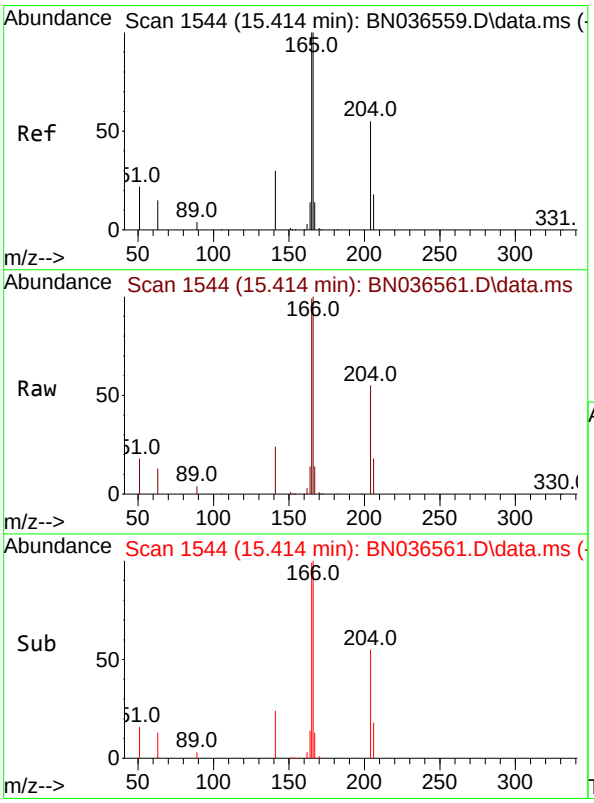
#17
Acenaphthene
Concen: 1.553 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

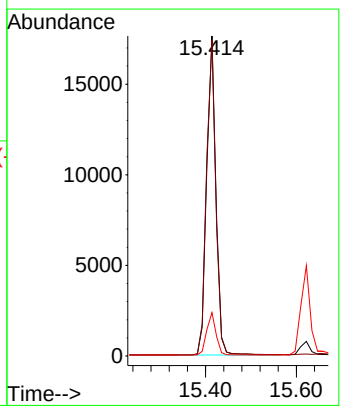


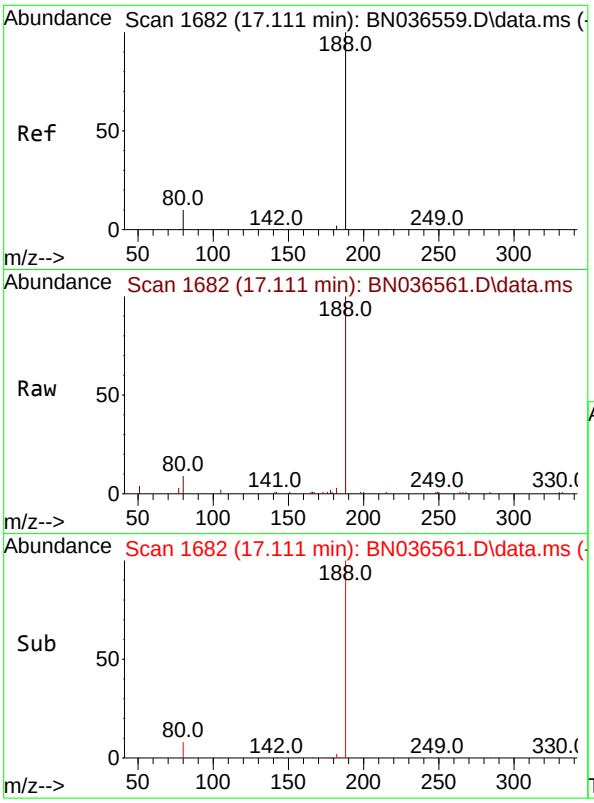


#18
Fluorene
Concen: 1.599 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



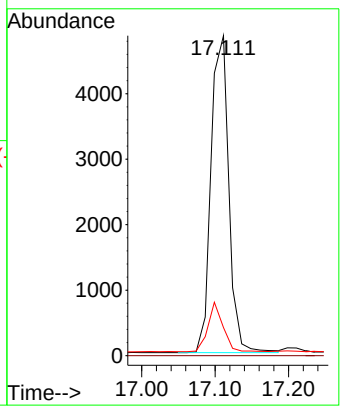


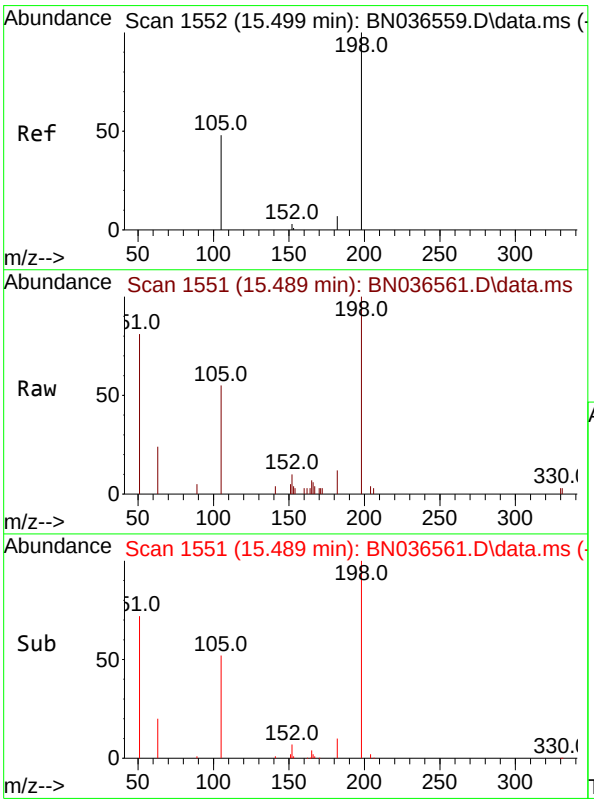
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

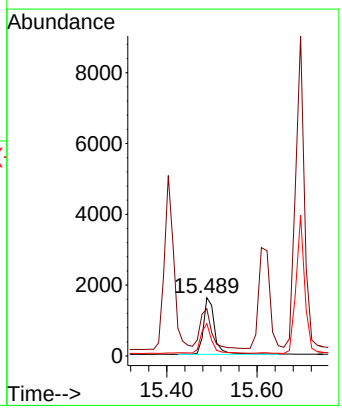


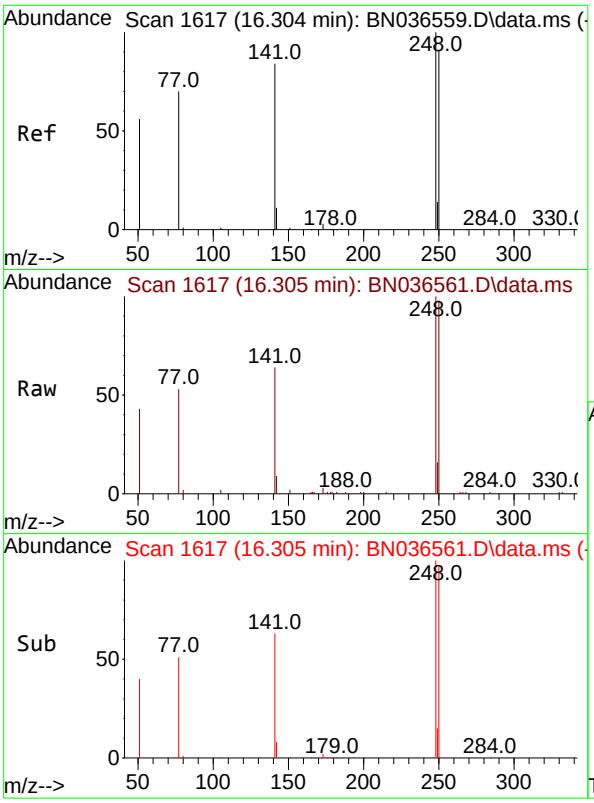


#20
4,6-Dinitro-2-methylphenol
Concen: 1.488 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#



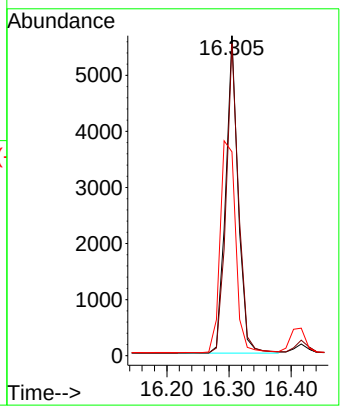


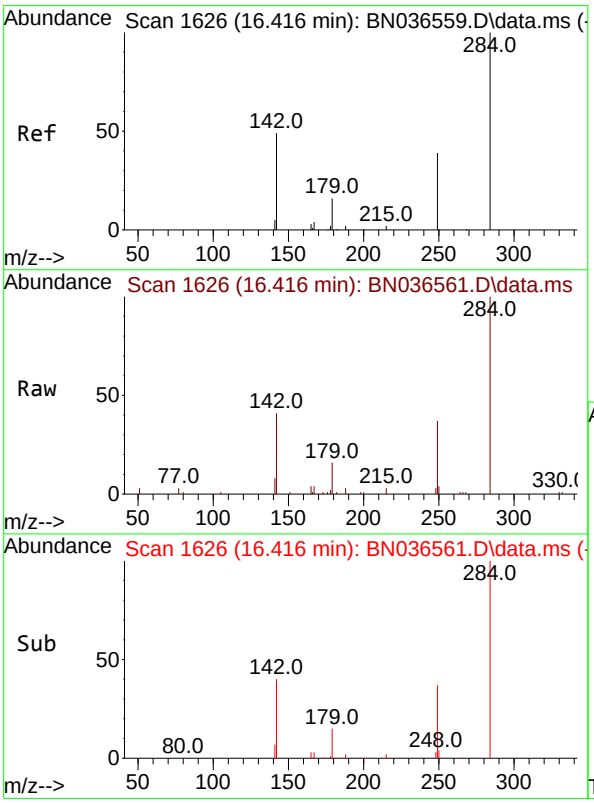
#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

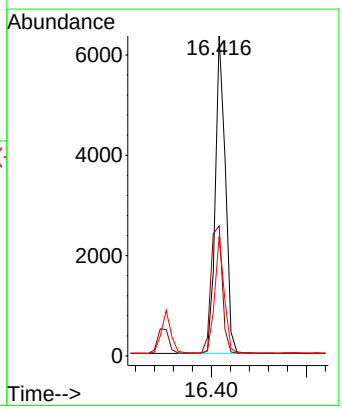


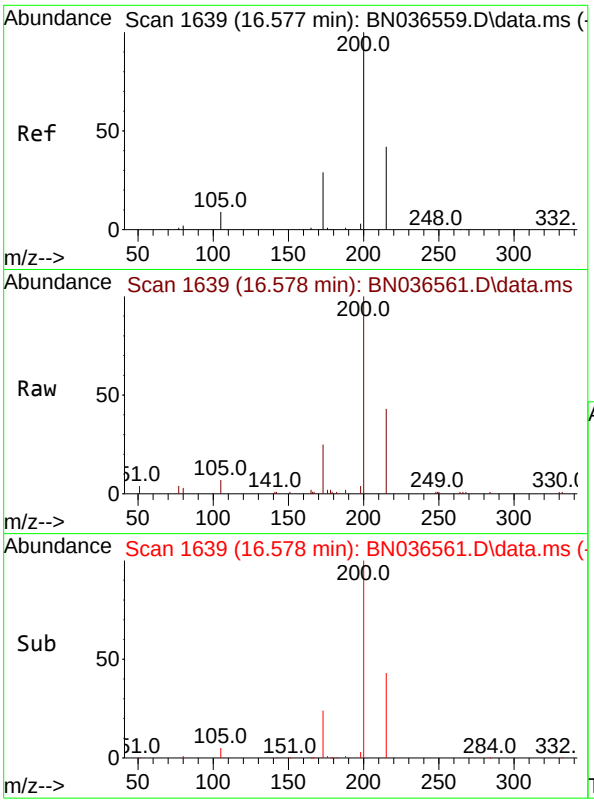


#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



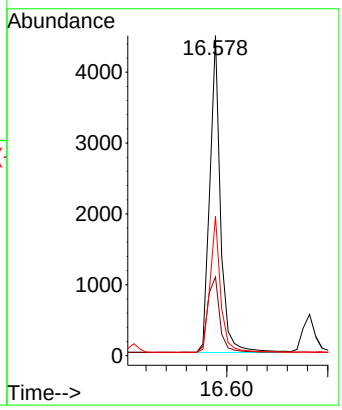


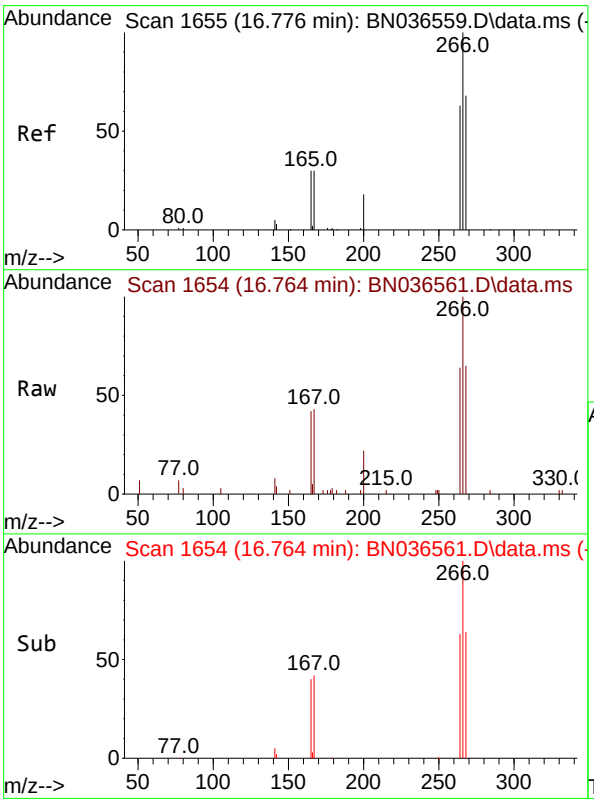
#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

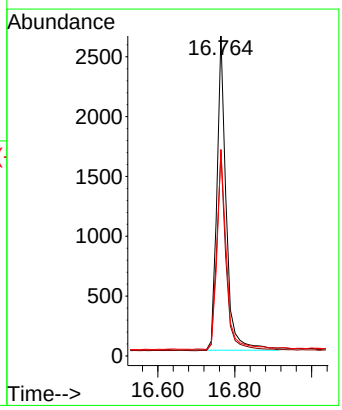


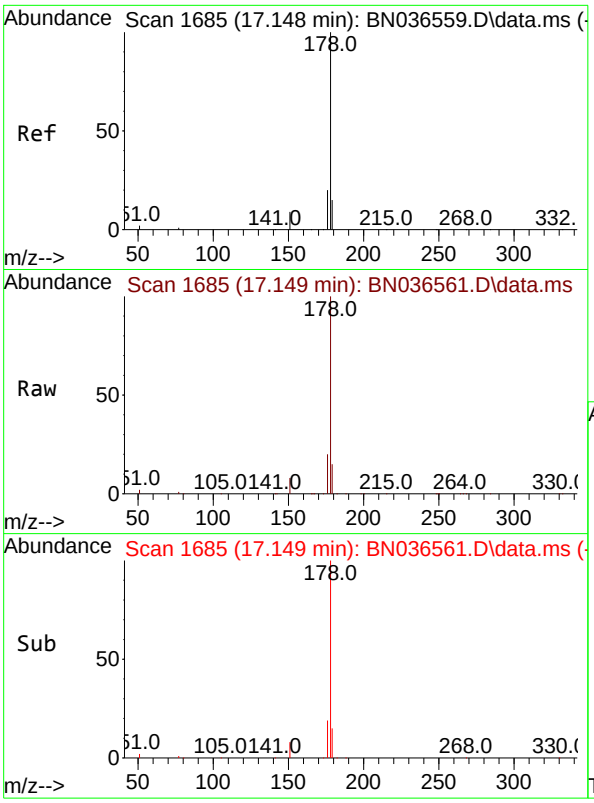


#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



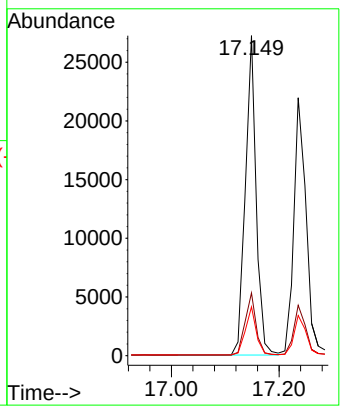


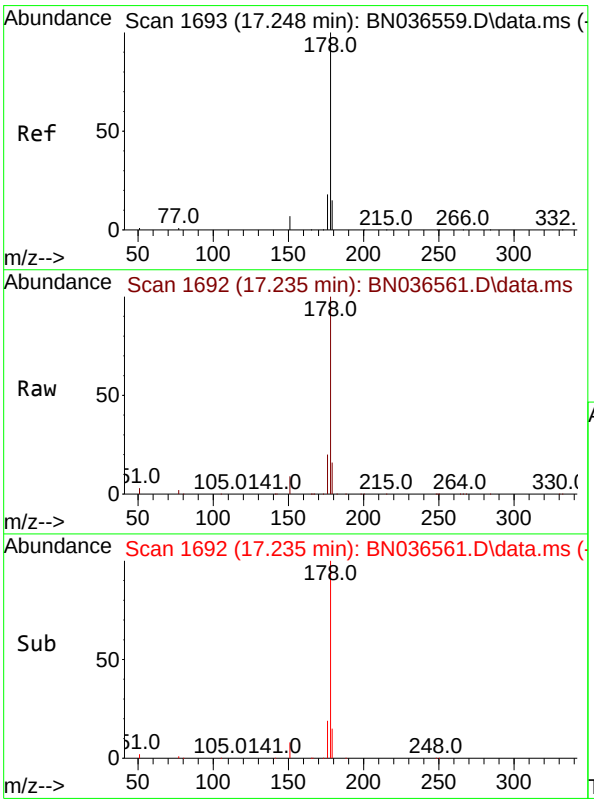
#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

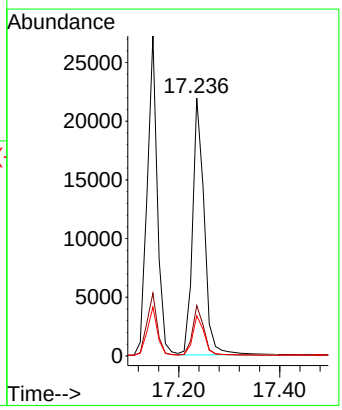


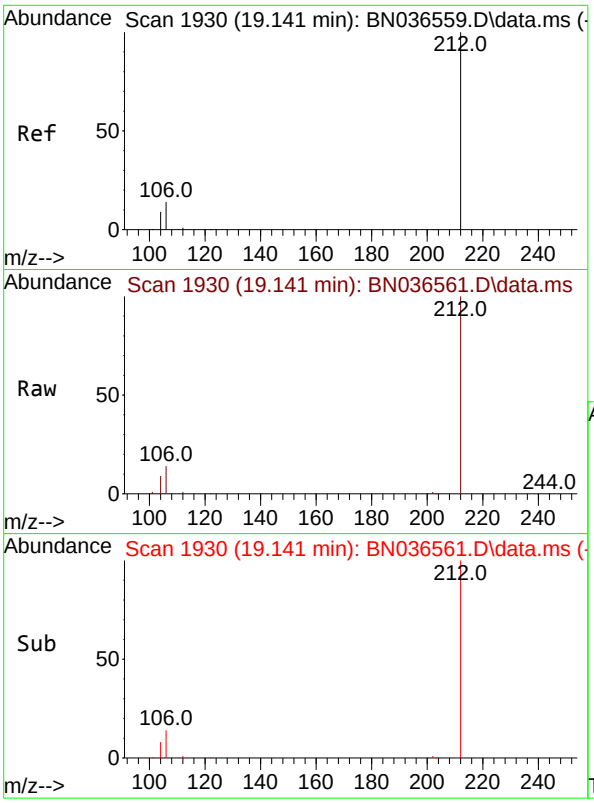


#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



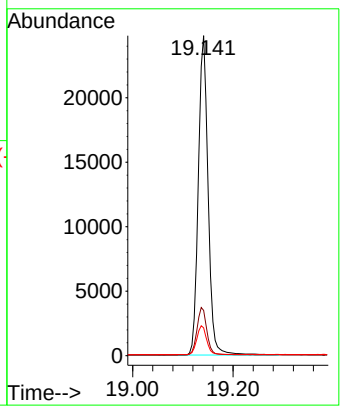


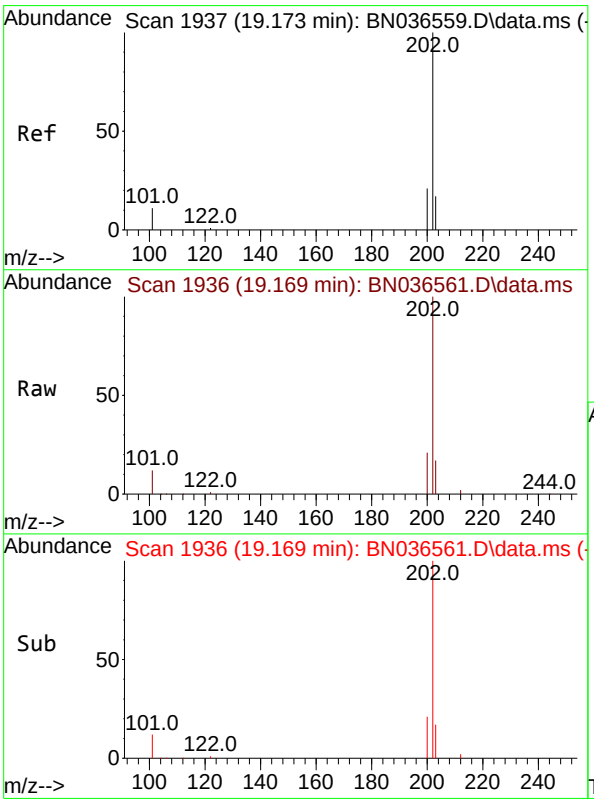
#27
Fluoranthene-d10
Concen: 1.600 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

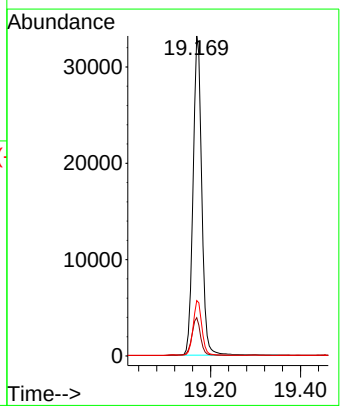


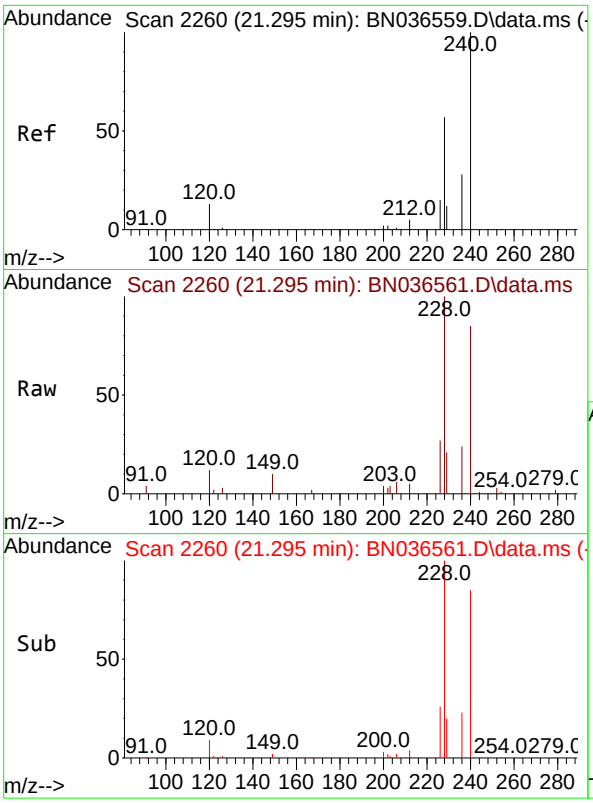


#28
Fluoranthene
Concen: 1.619 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



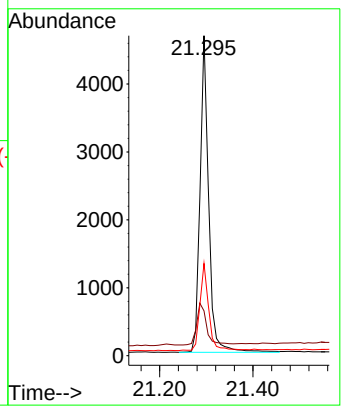


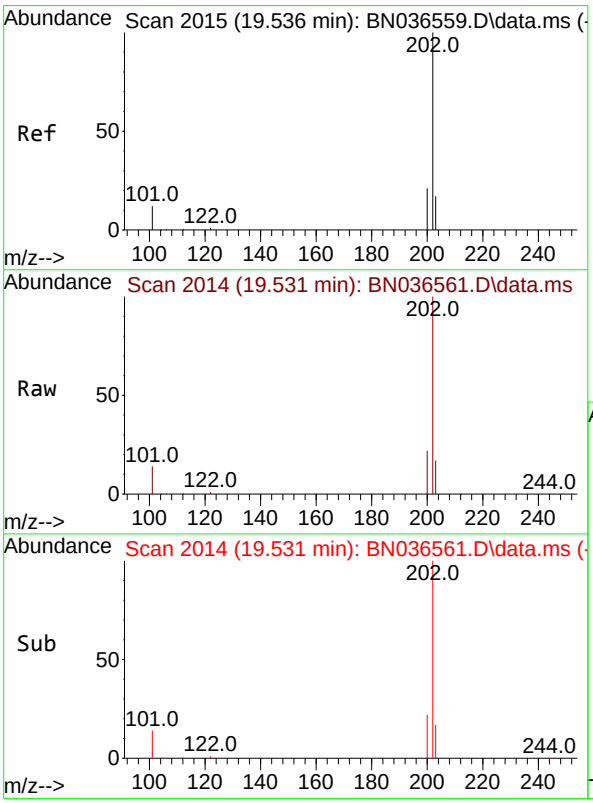
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

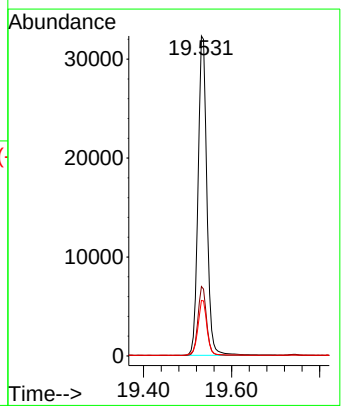


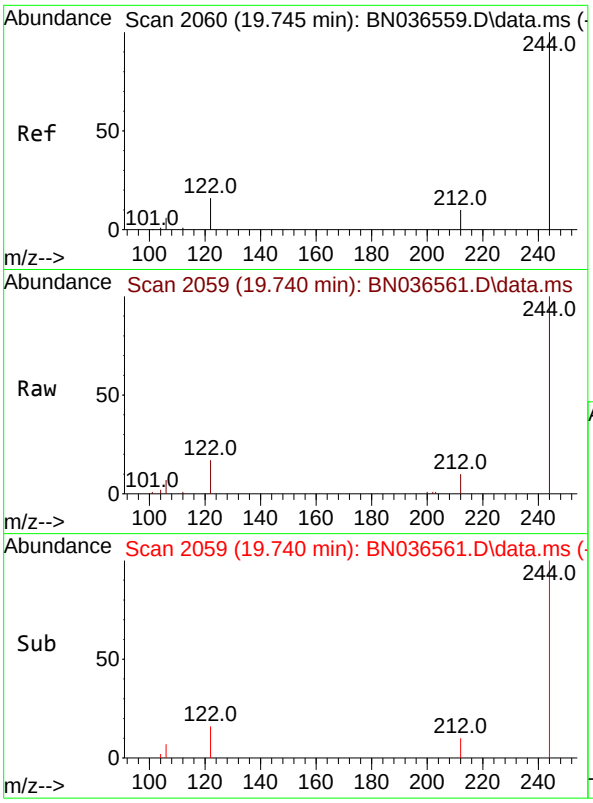


#30
Pyrene
Concen: 1.530 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



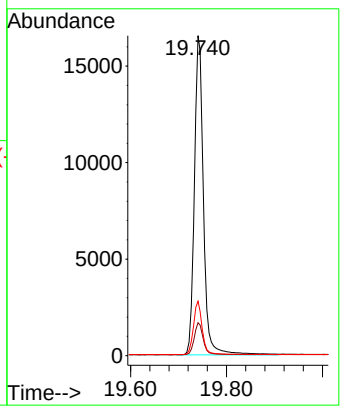


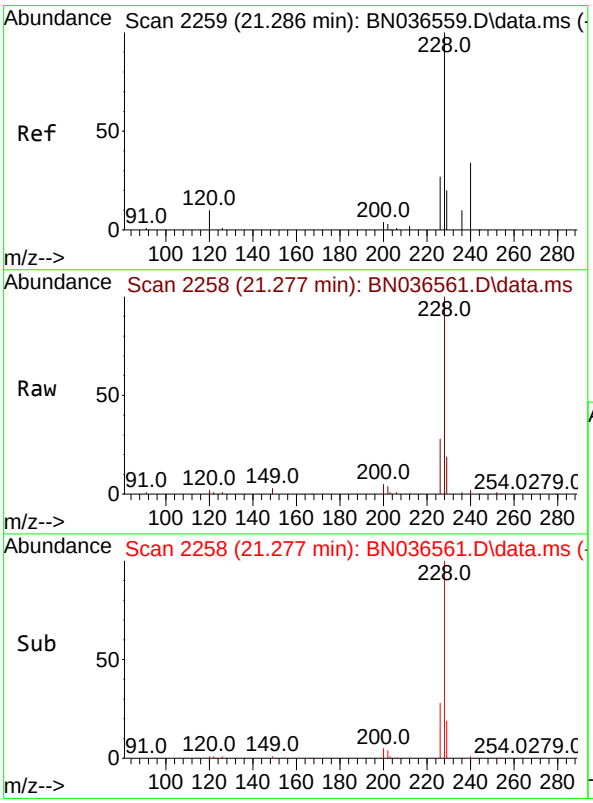
#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

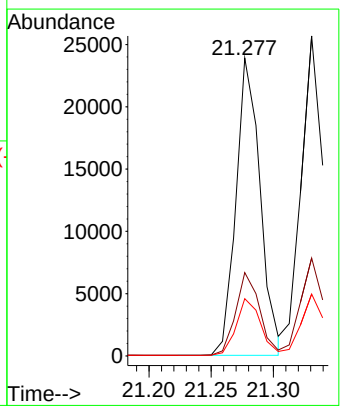


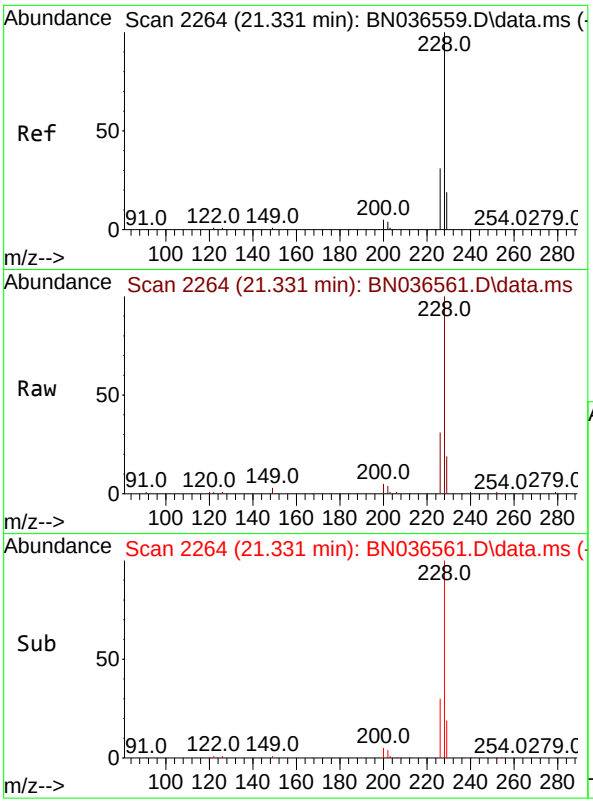


#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



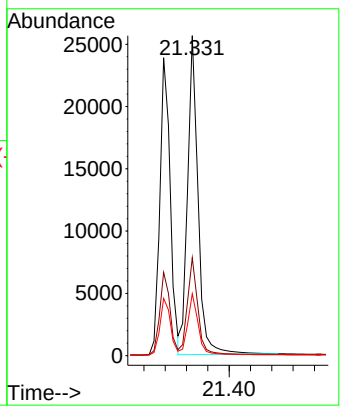


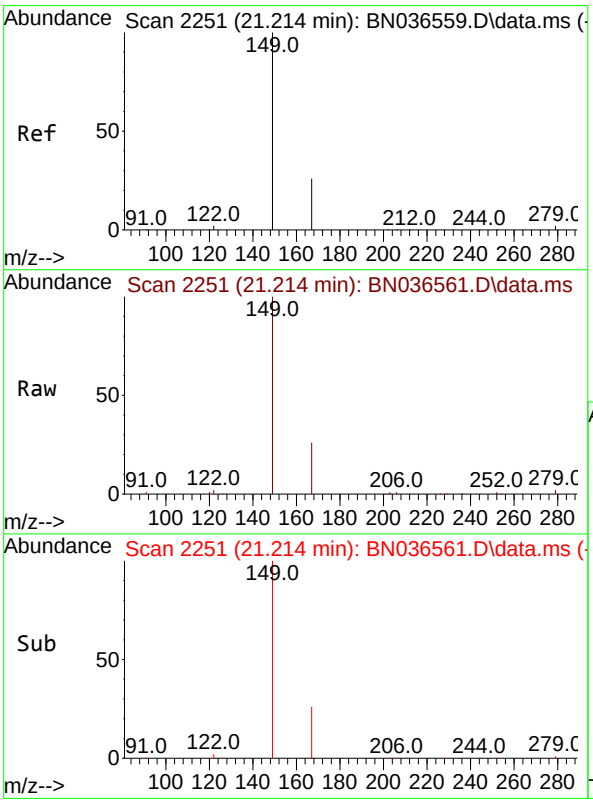
#33
Chrysene
Concen: 1.539 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

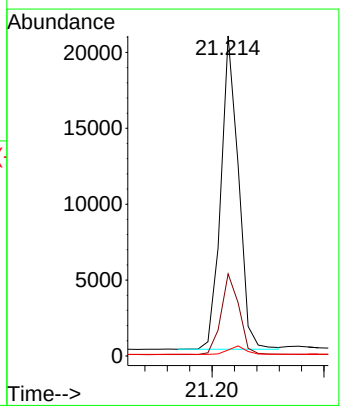


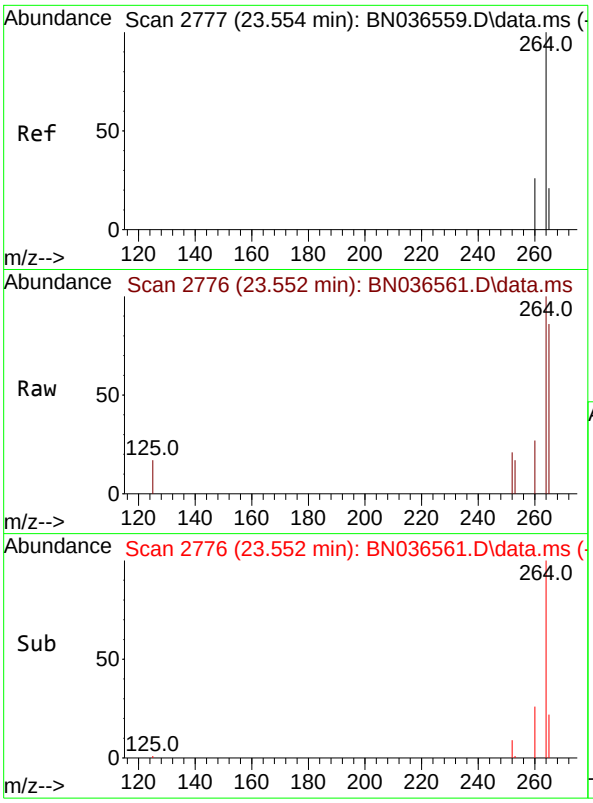


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.529 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#



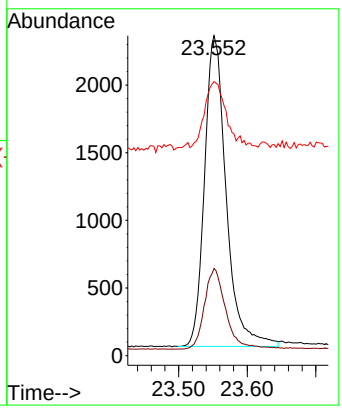


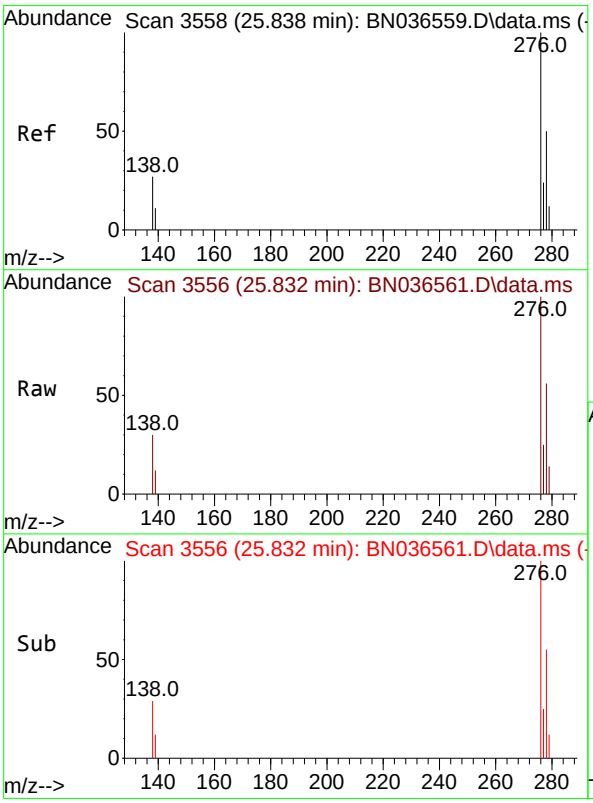
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

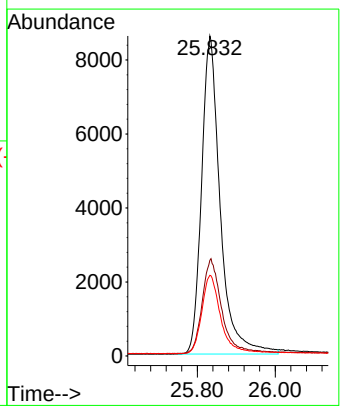


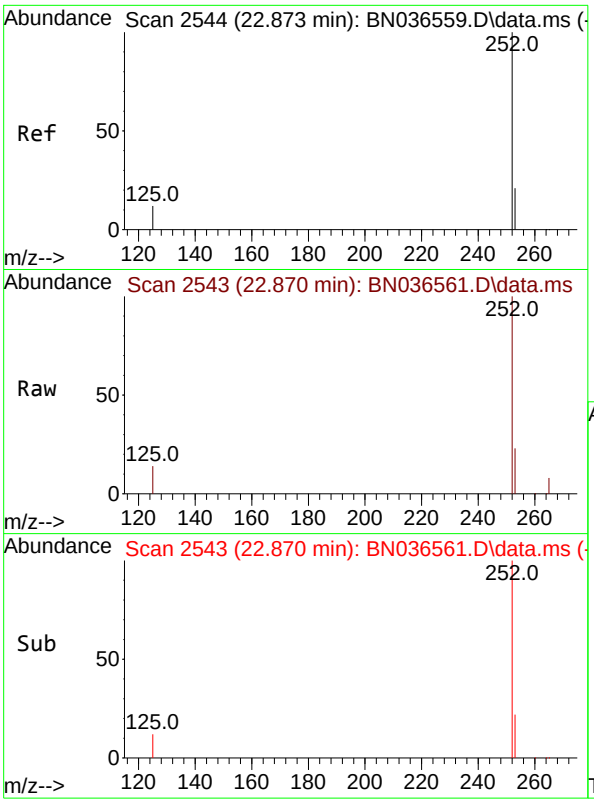


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.570 ng
RT: 25.832 min Scan# 3556
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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



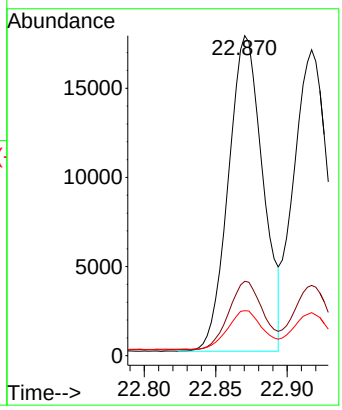


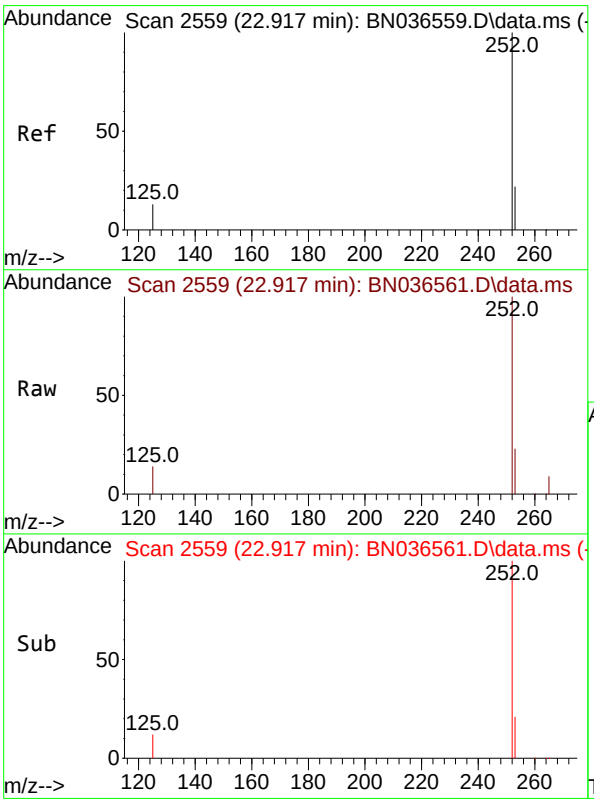
#37
Benzo(b)fluoranthene
Concen: 1.623 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

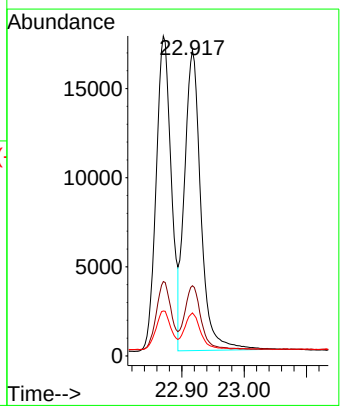


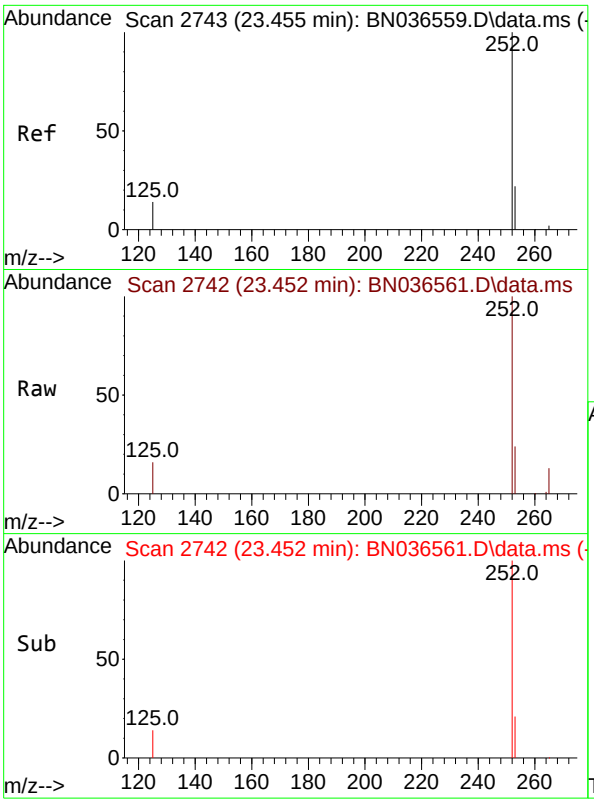


#38
Benzo(k)fluoranthene
Concen: 1.593 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#



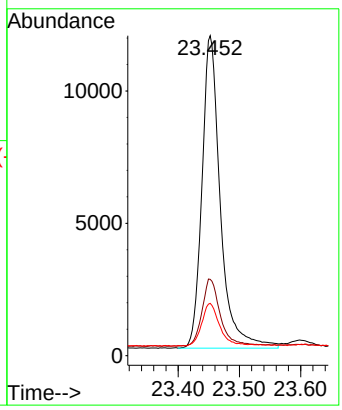


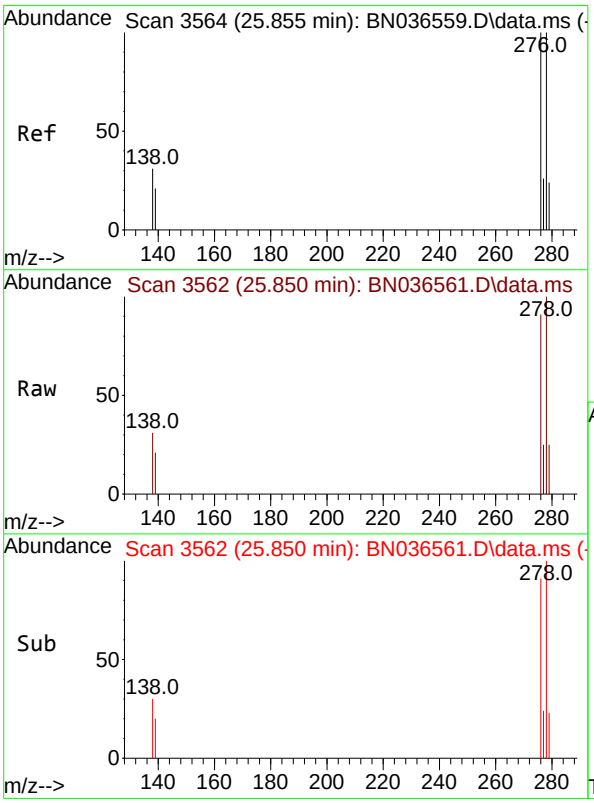
#39
Benzo(a)pyrene
Concen: 1.596 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#

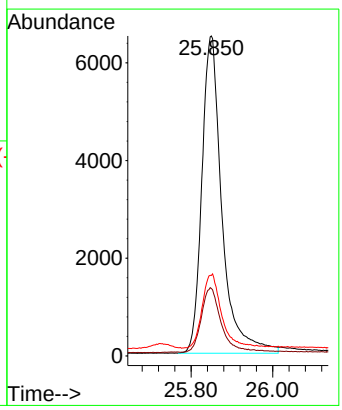


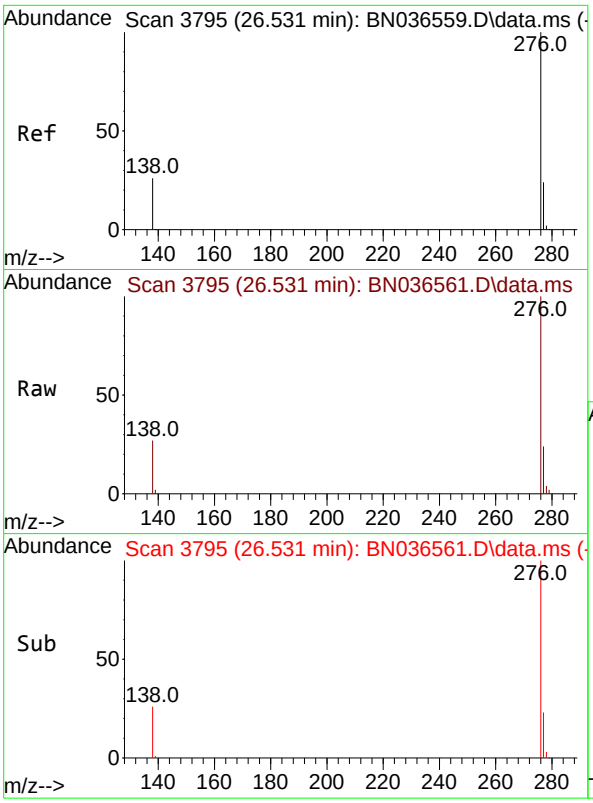


#40
Dibenzo(a,h)anthracene
Concen: 1.569 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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#



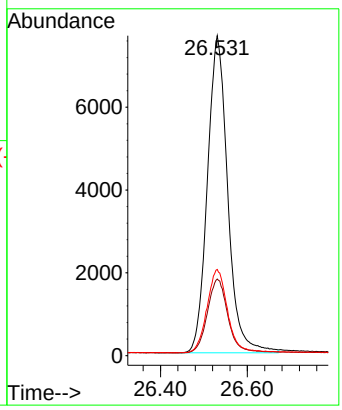


#41
Benzo(g,h,i)perylene
Concen: 1.535 ng
RT: 26.531 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

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

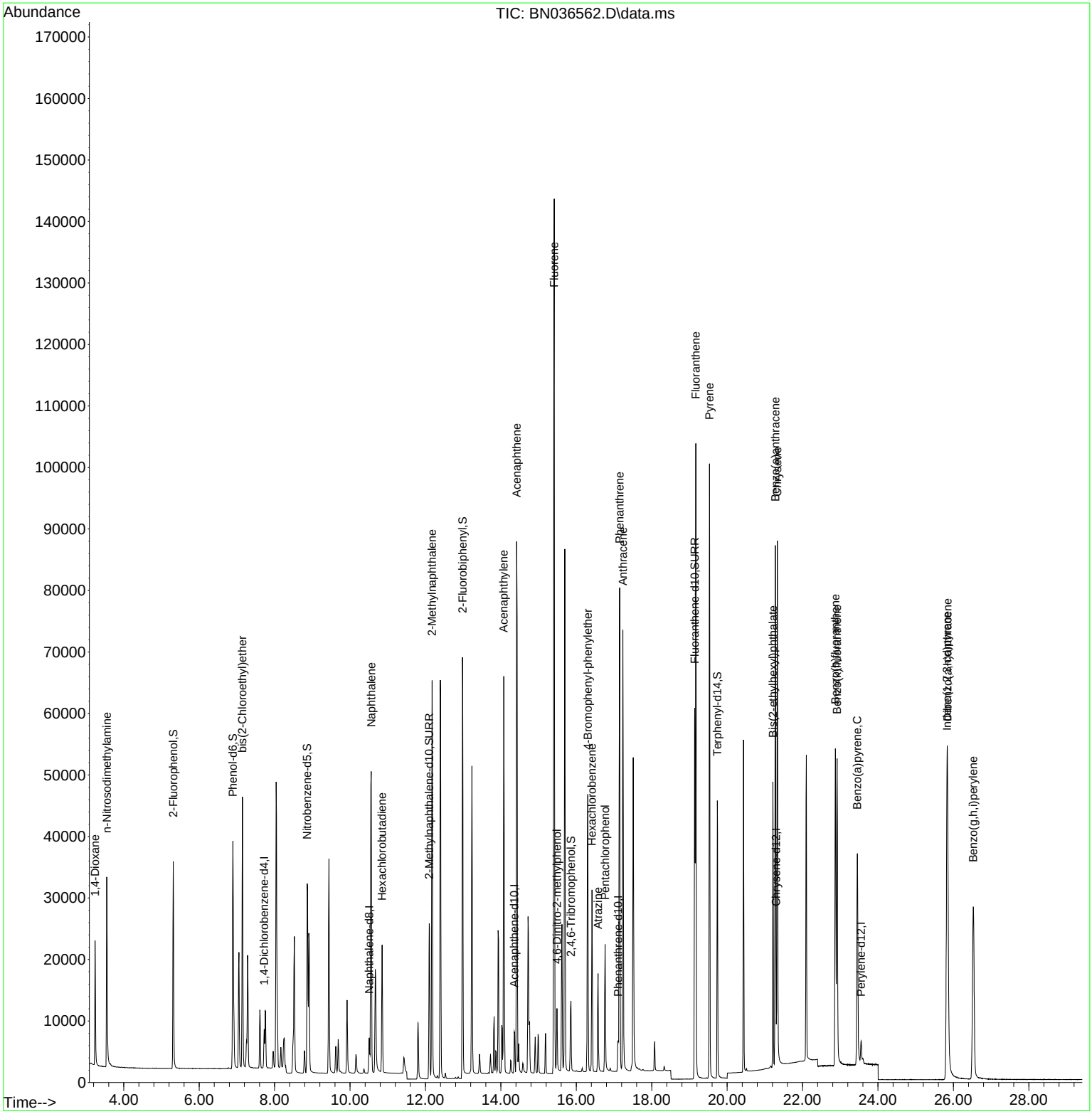
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng		0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng		-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng		0.00
29) Chrysene-d12	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

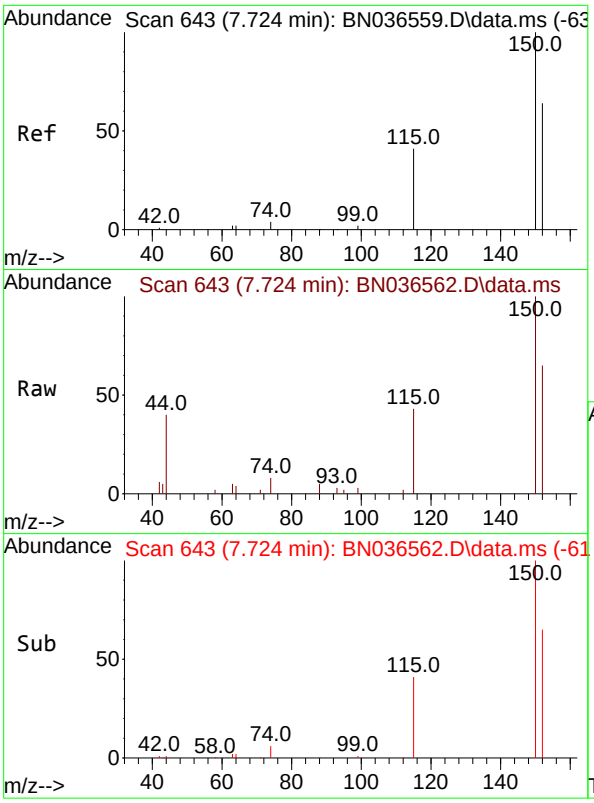
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



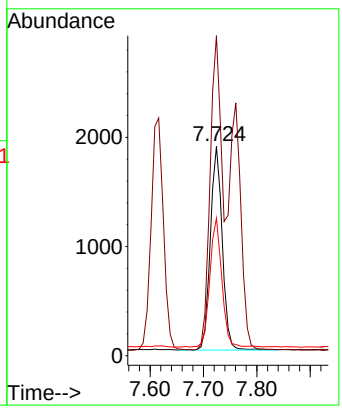


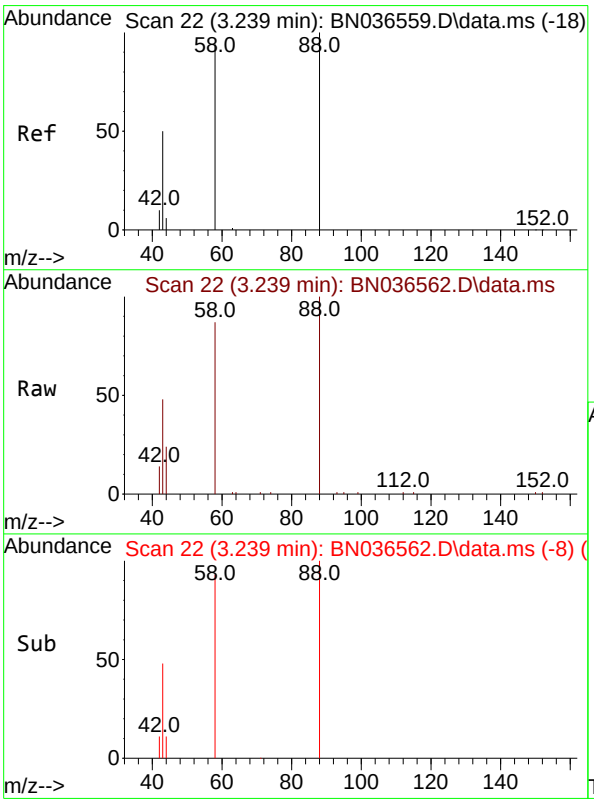
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

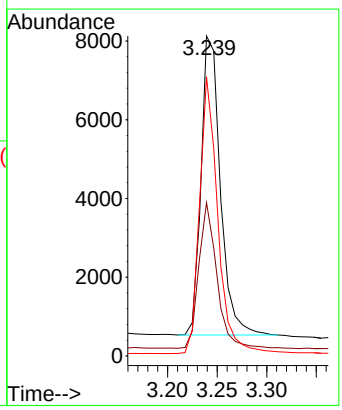


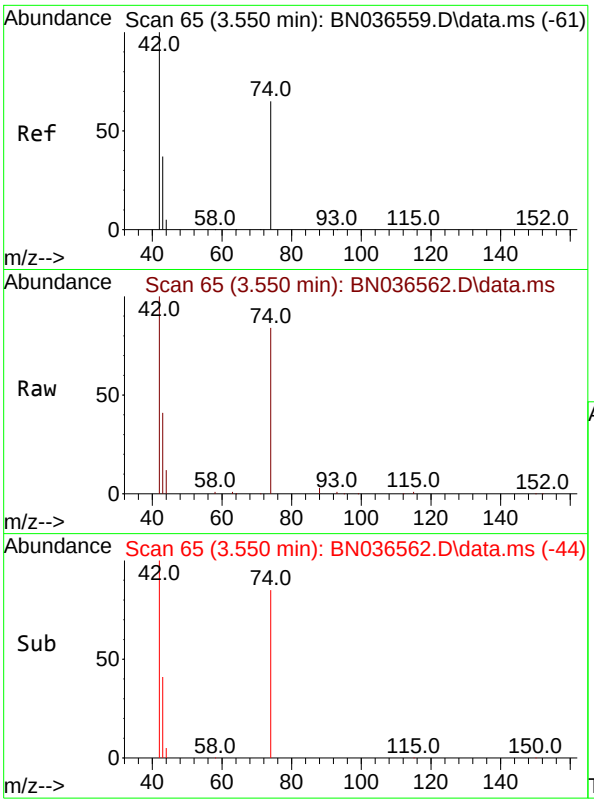


#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



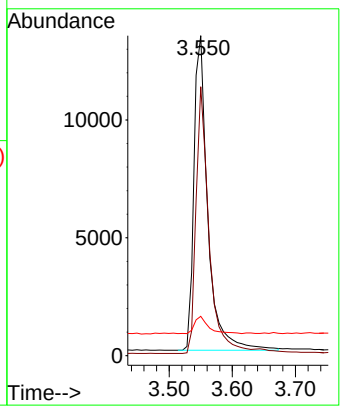


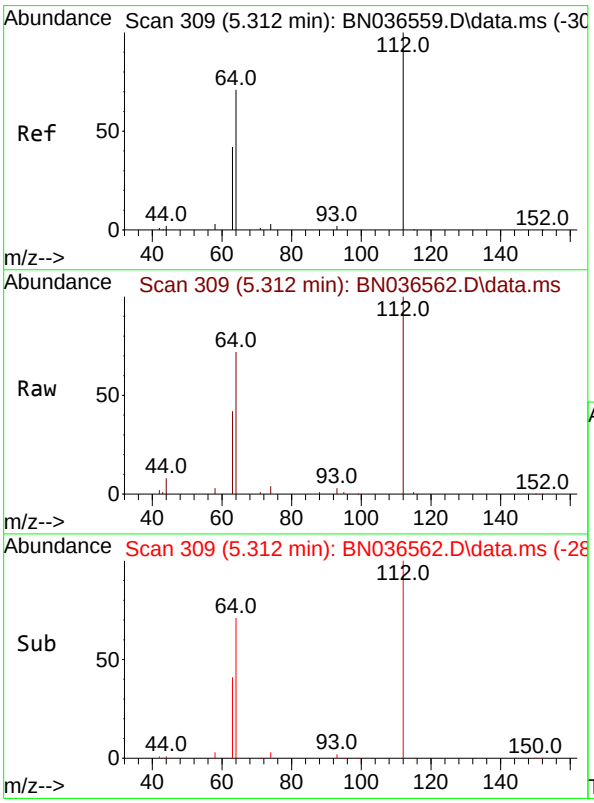
#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#

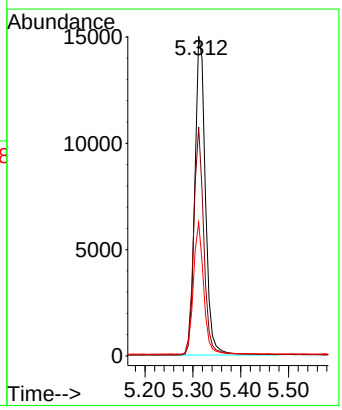


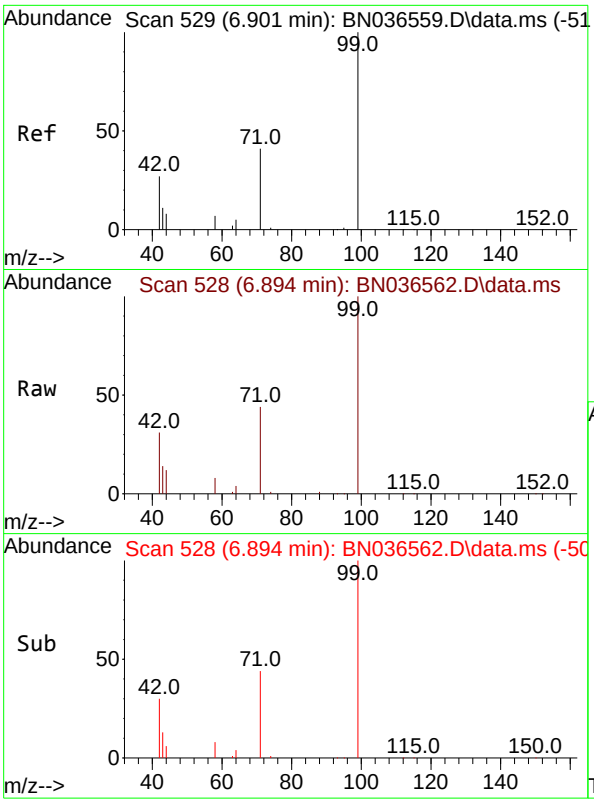


#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



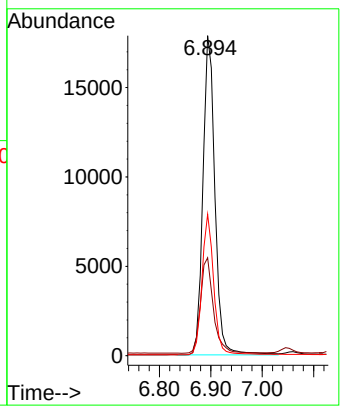


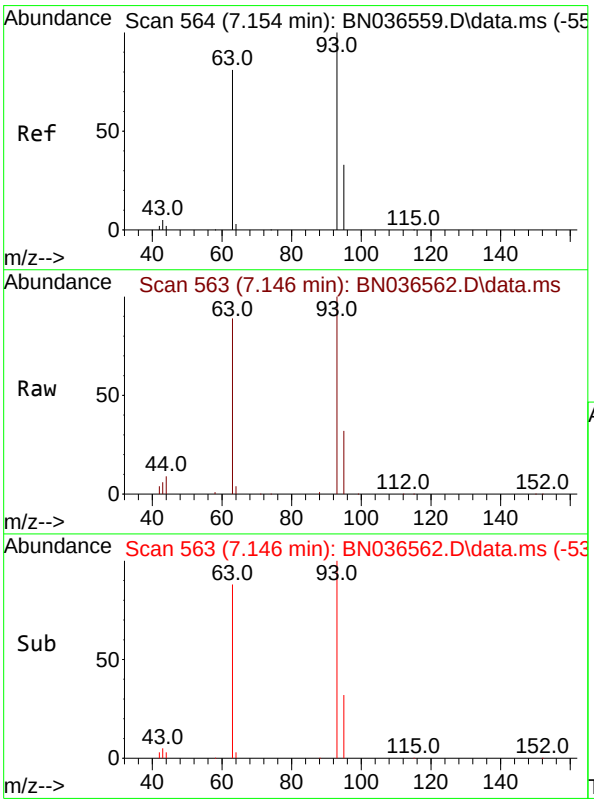
#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

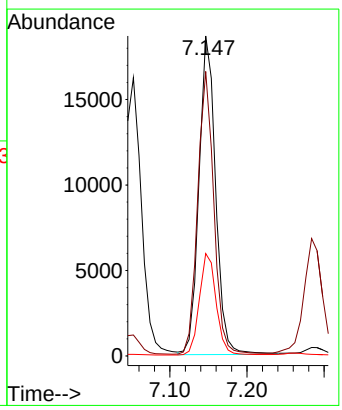


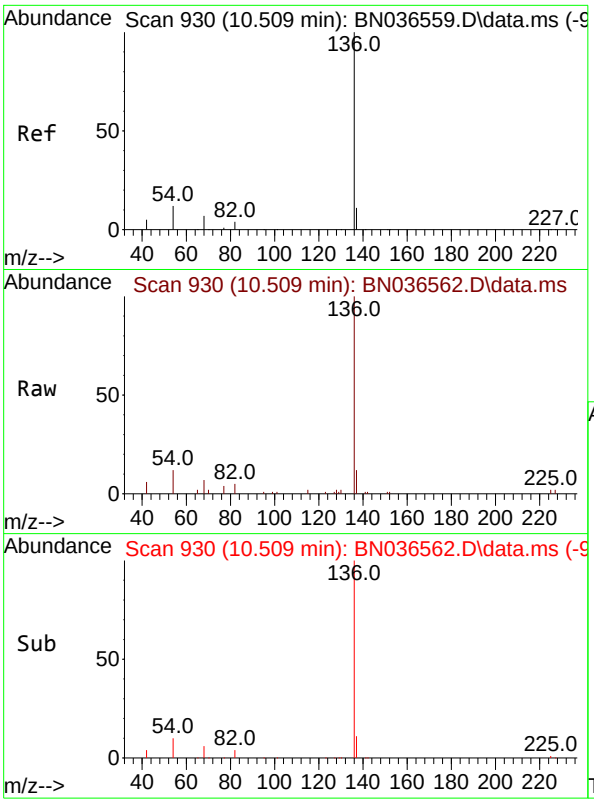


#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



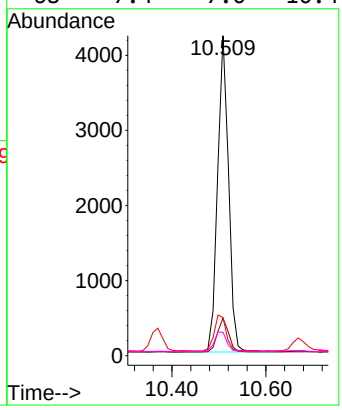


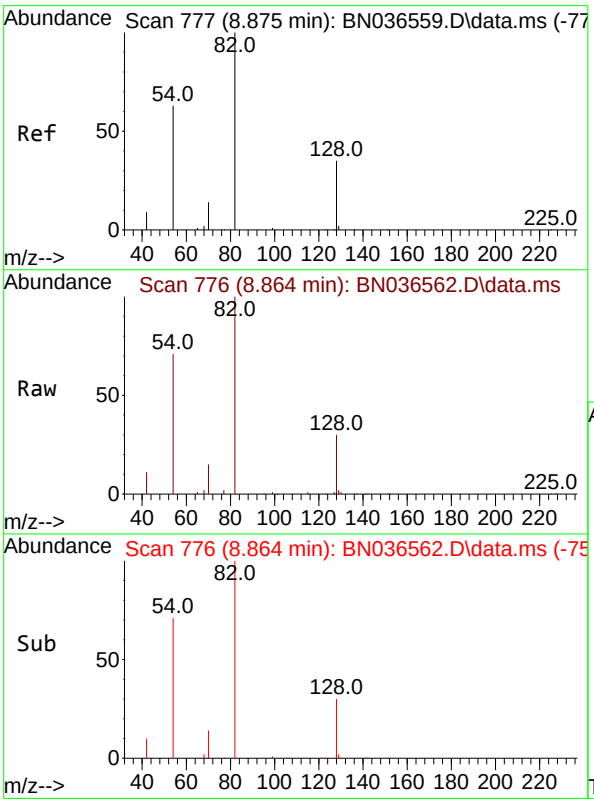
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

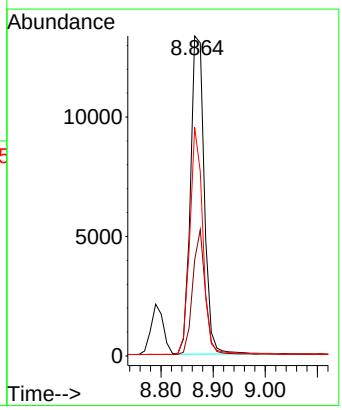


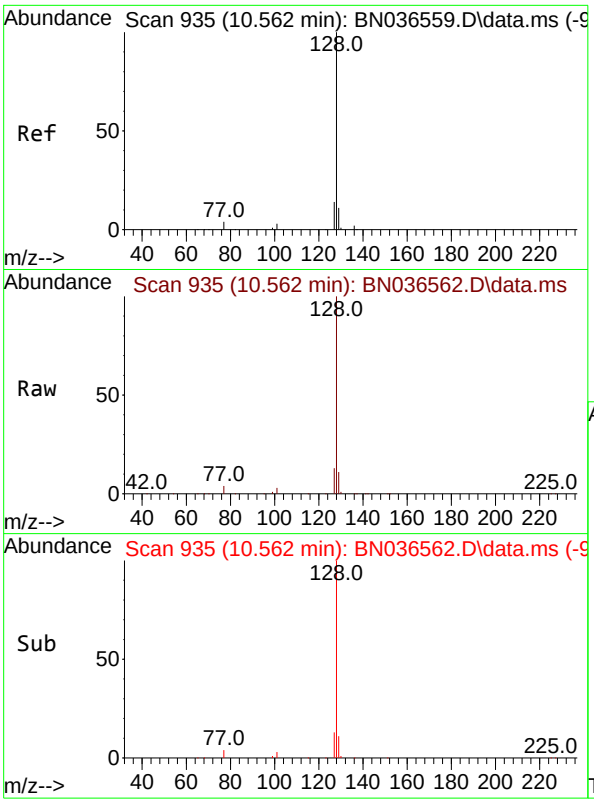


#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



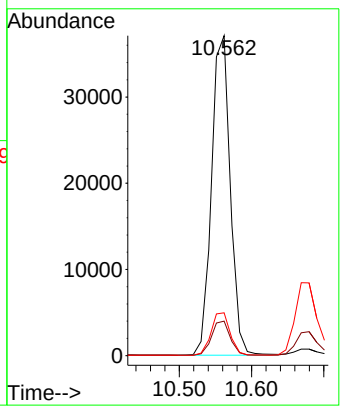


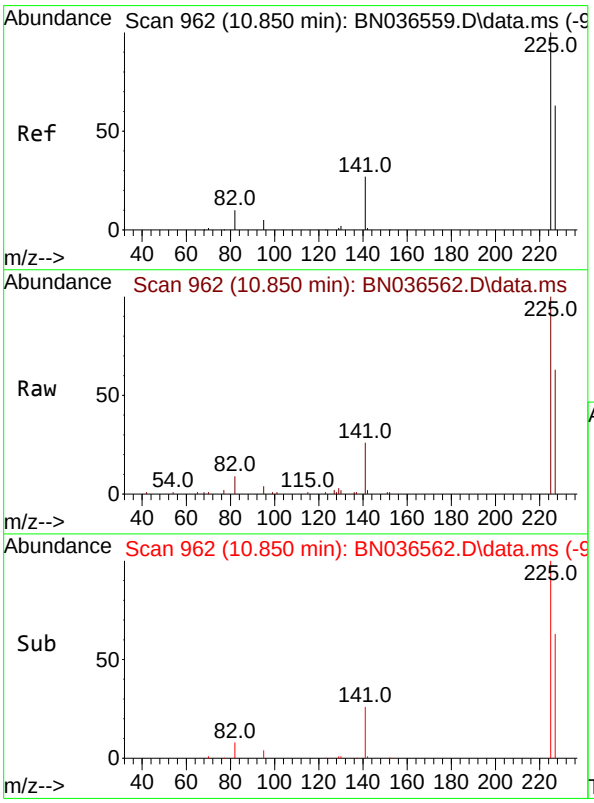
#9
Naphthalene
Concen: 3.323 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

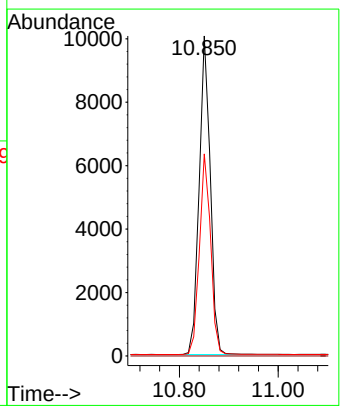


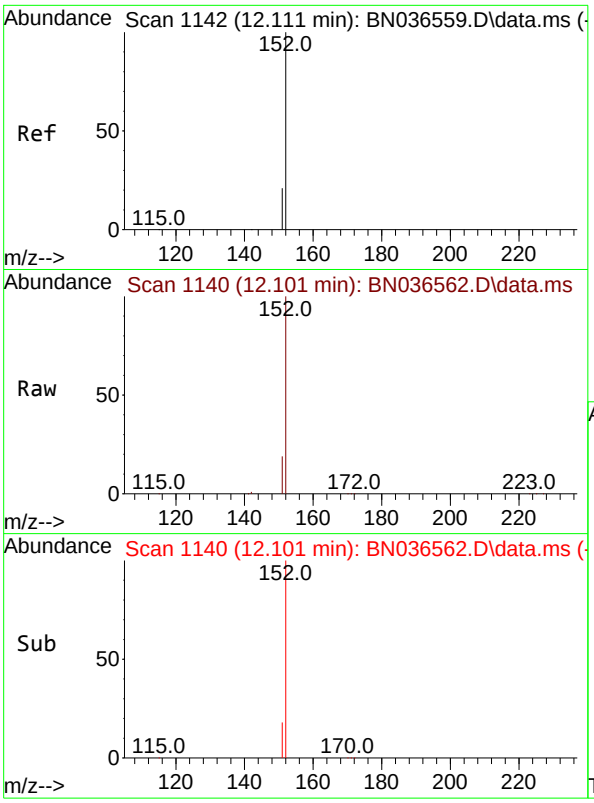


#10
Hexachlorobutadiene
Concen: 3.305 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



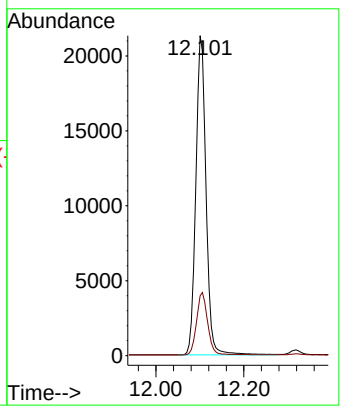


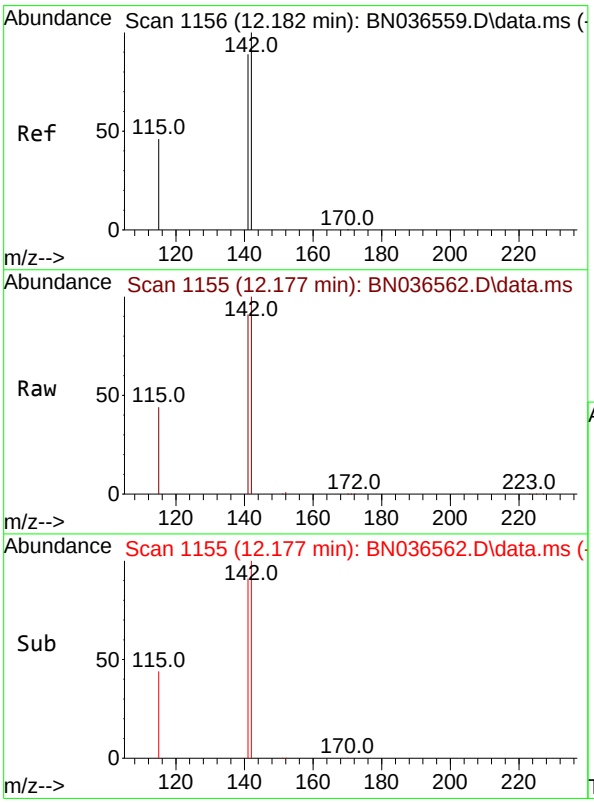
#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 34578

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

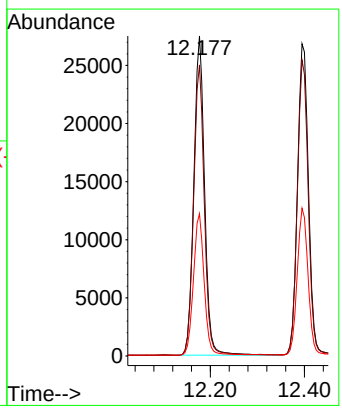


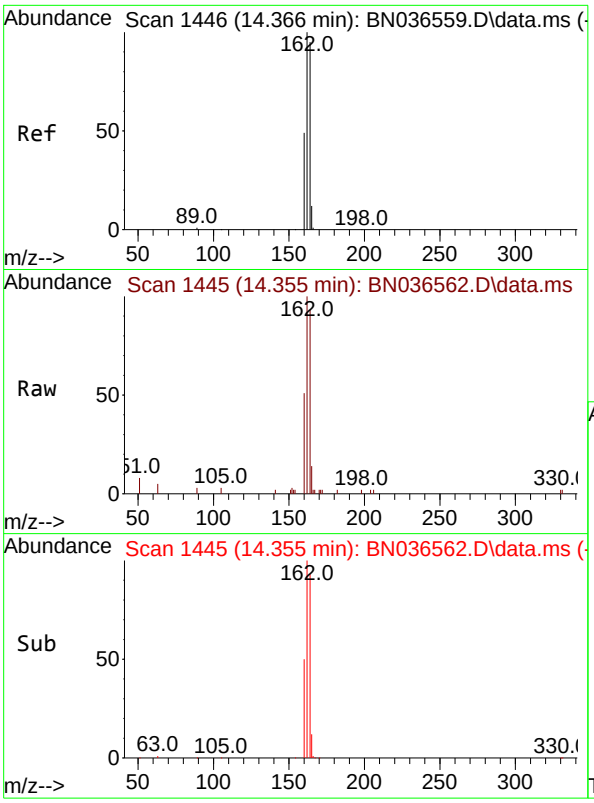


#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



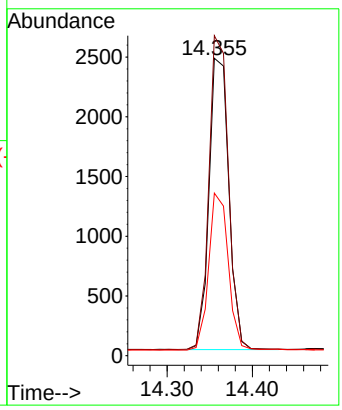


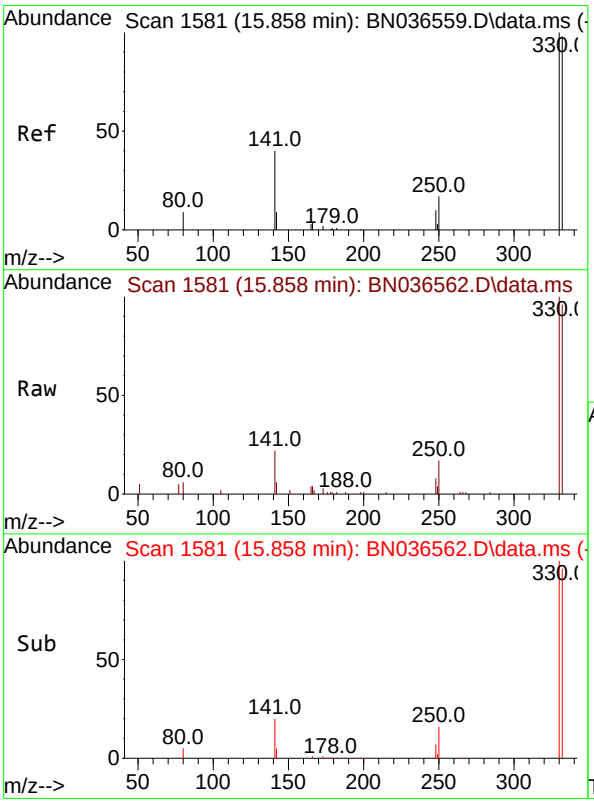
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

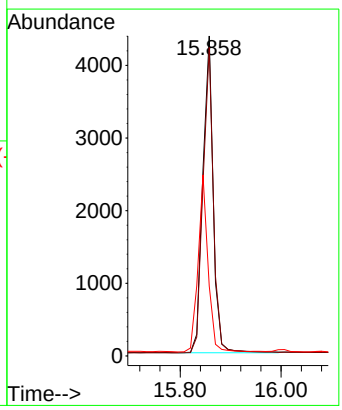


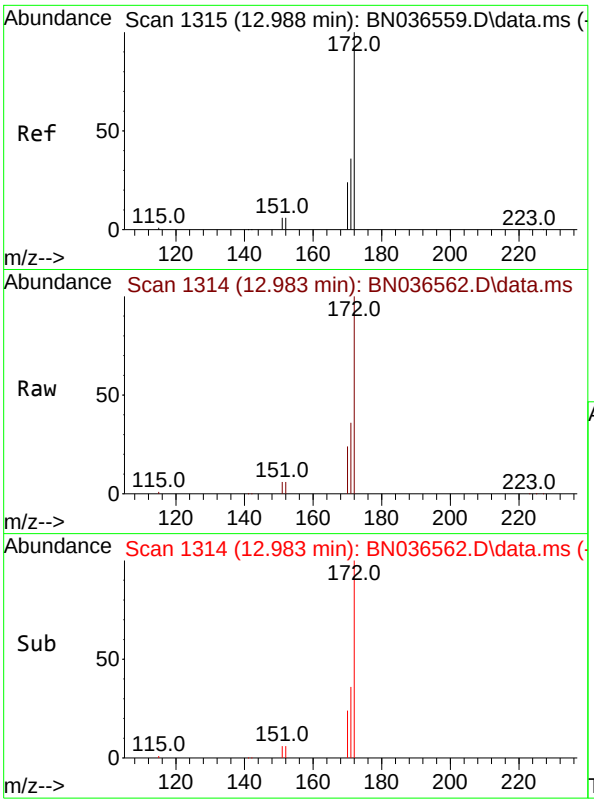


#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



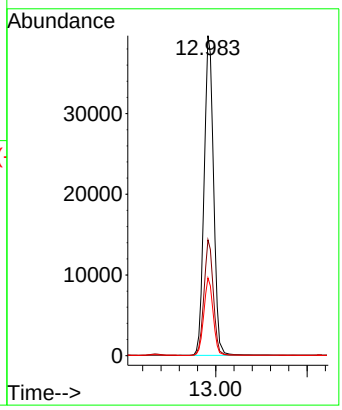


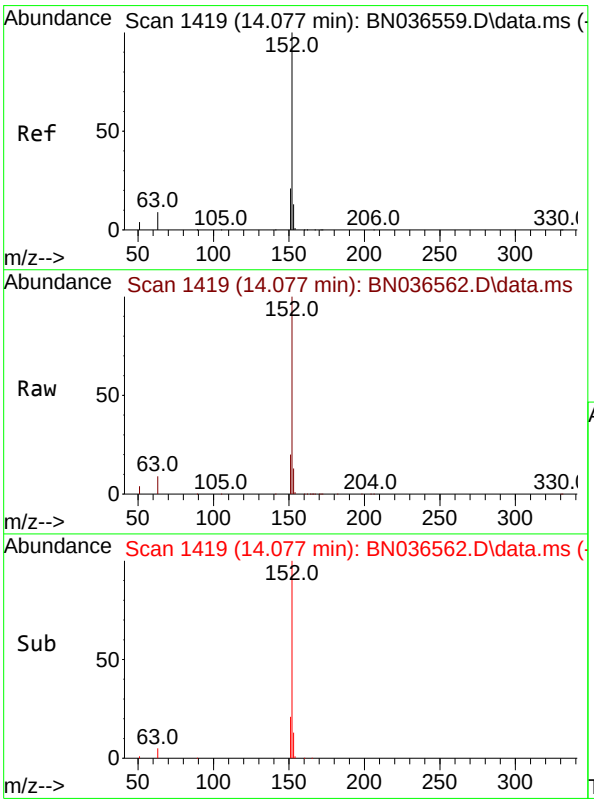
#15
2-Fluorobiphenyl
Concen: 3.529 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

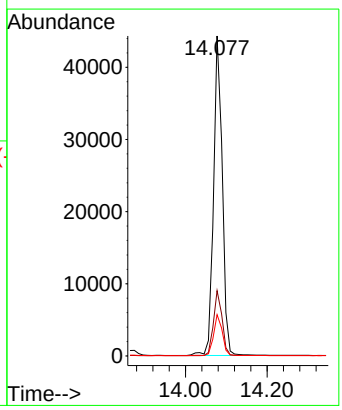


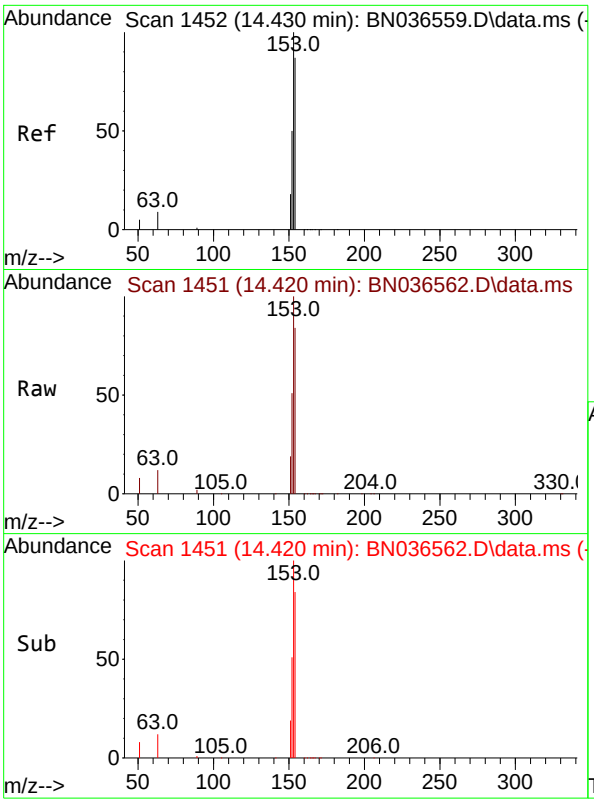


#16
Acenaphthylene
Concen: 3.516 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



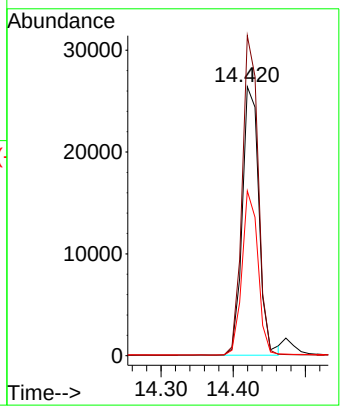


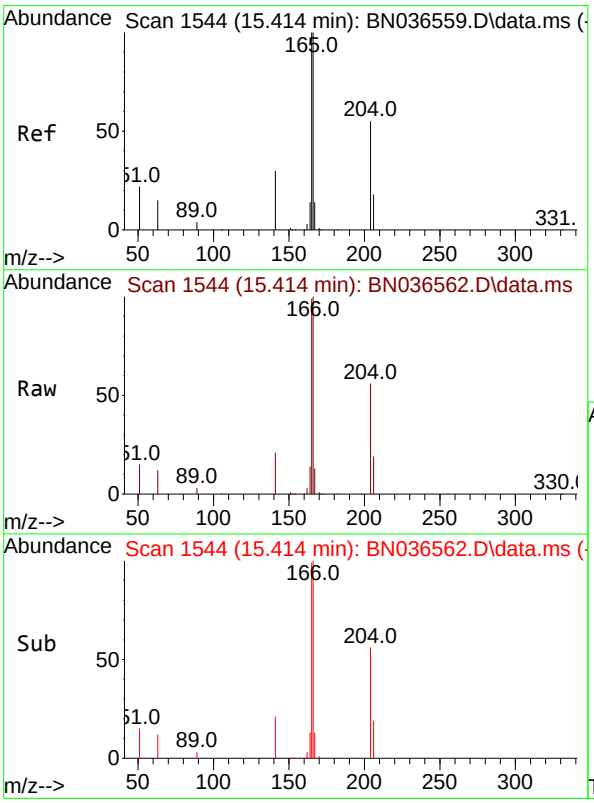
#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

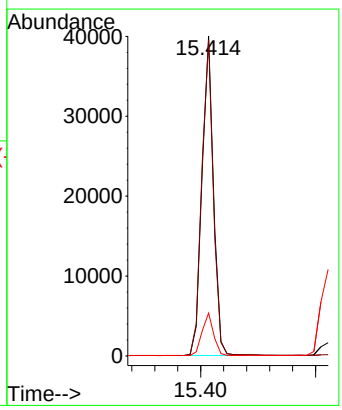


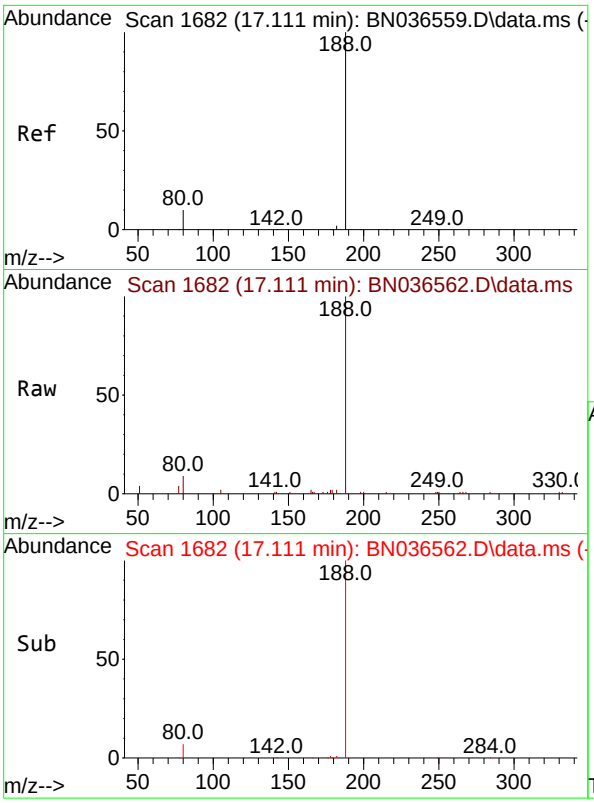


#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



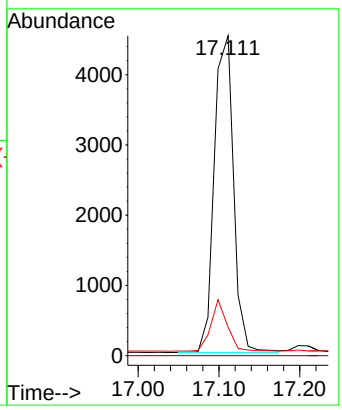


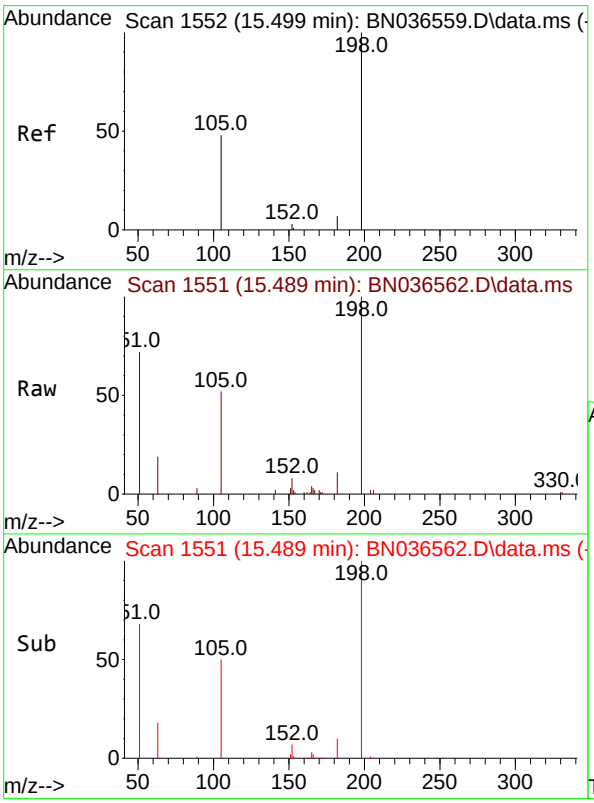
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

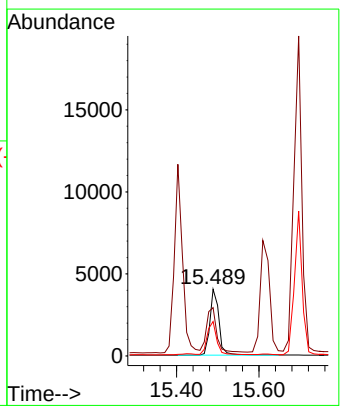


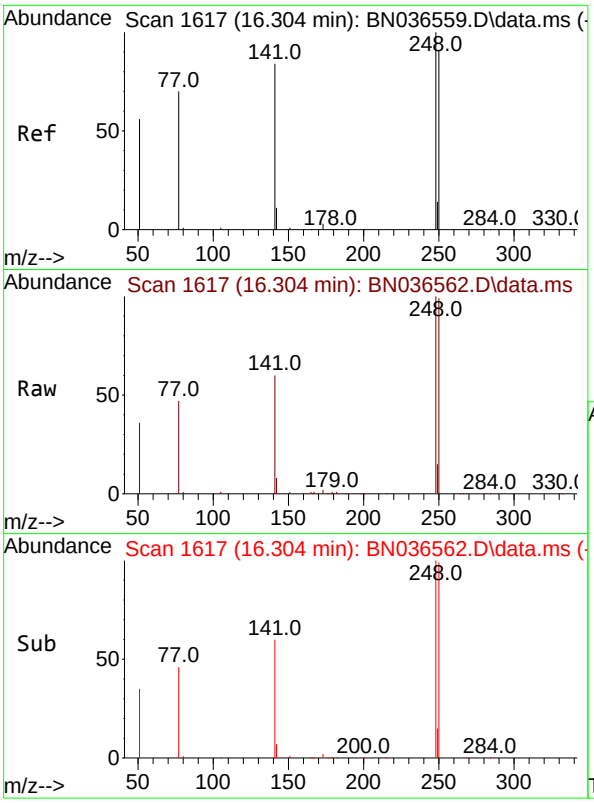


#20
4,6-Dinitro-2-methylphenol
Concen: 3.315 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#



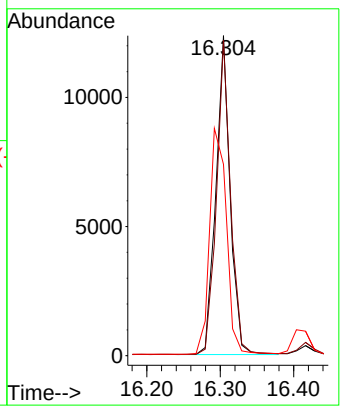


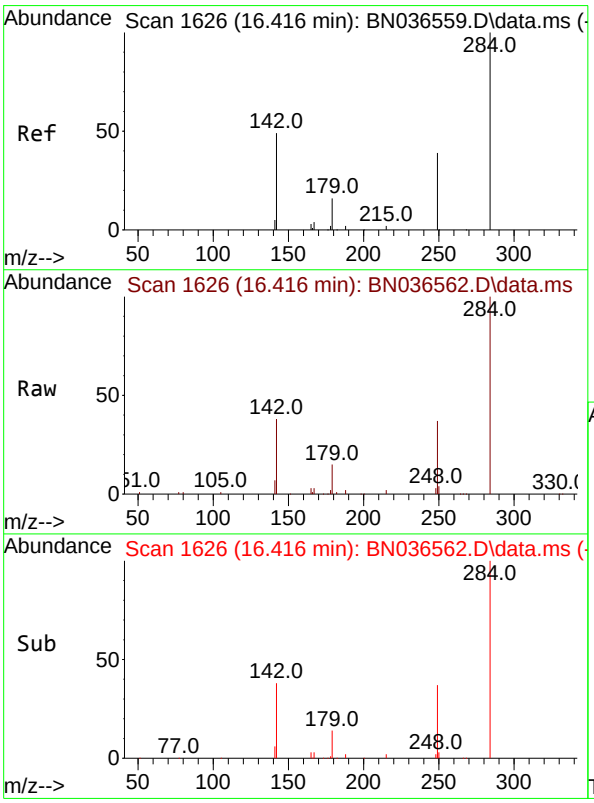
#21
4-Bromophenyl-phenylether
Concen: 3.549 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#

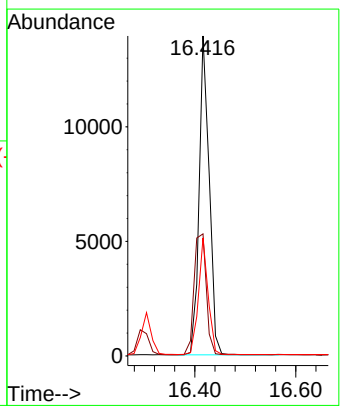


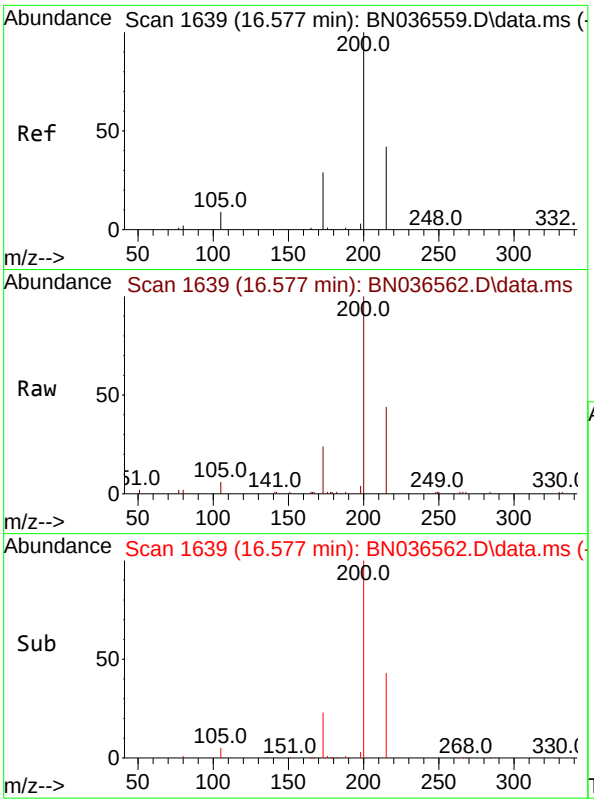


#22
Hexachlorobenzene
Concen: 3.406 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



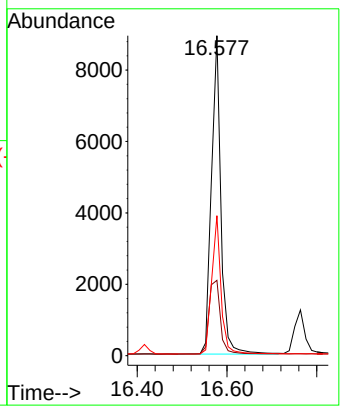


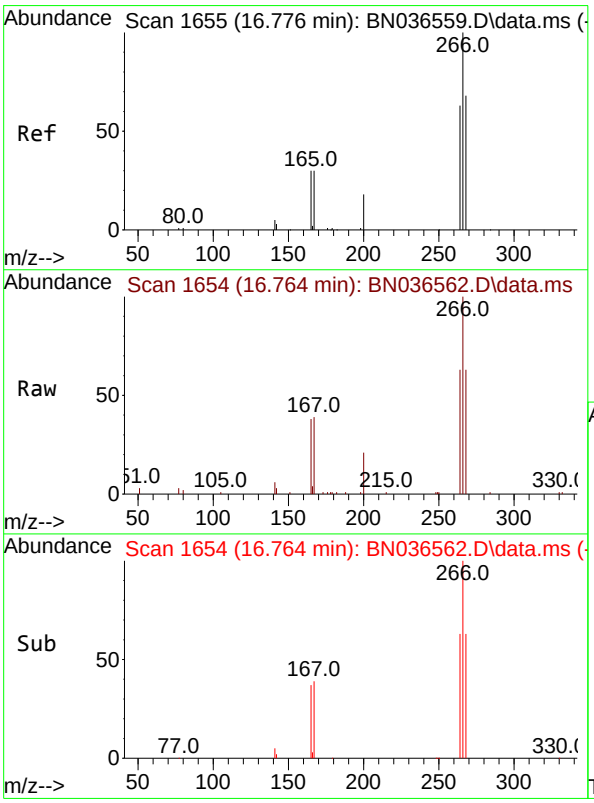
#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

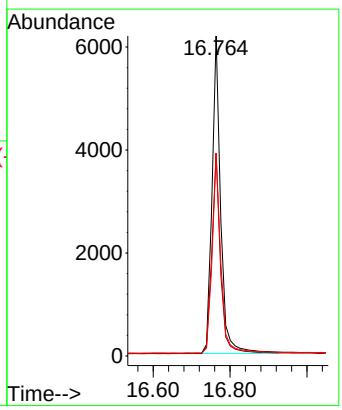


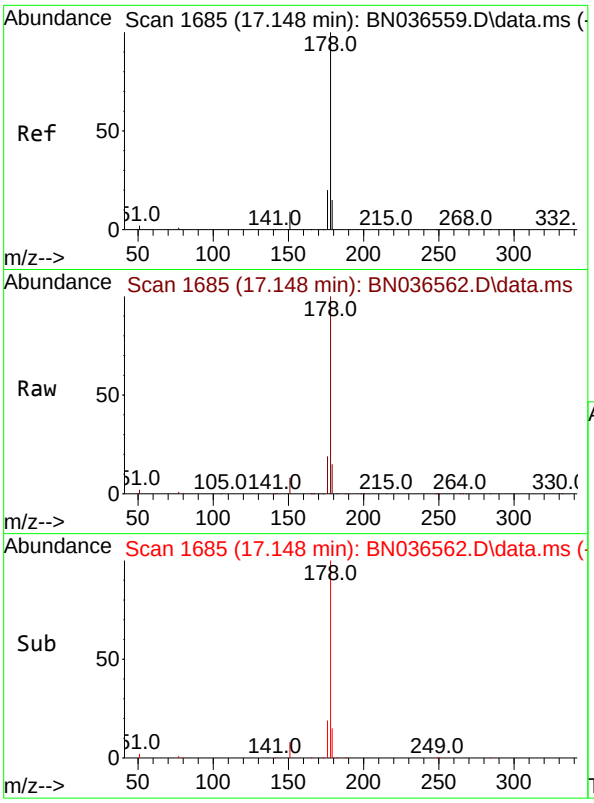


#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



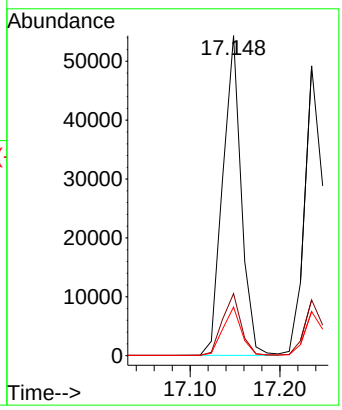


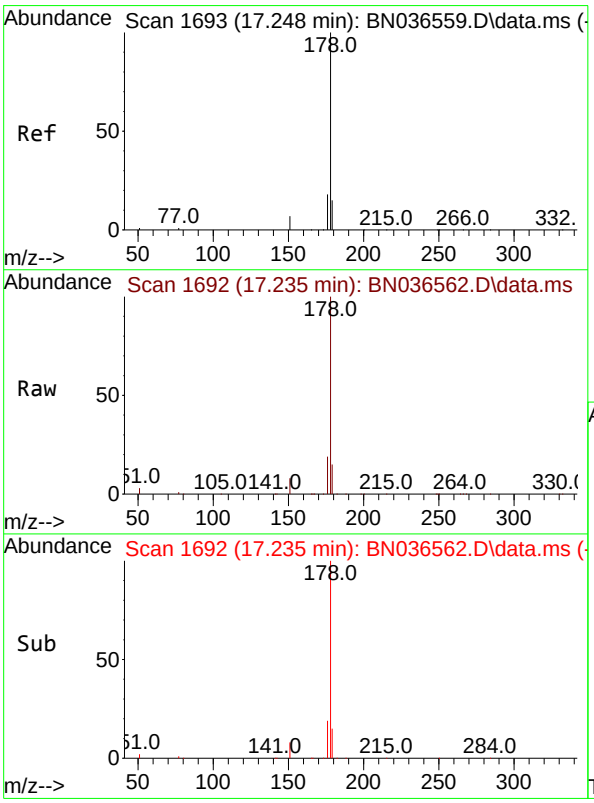
#25
Phenanthrene
Concen: 3.468 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

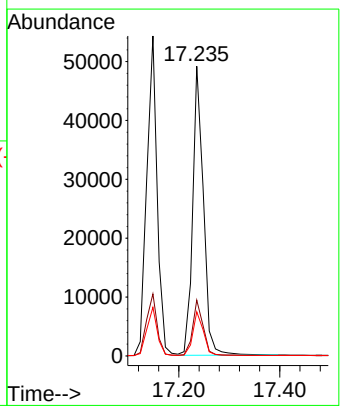


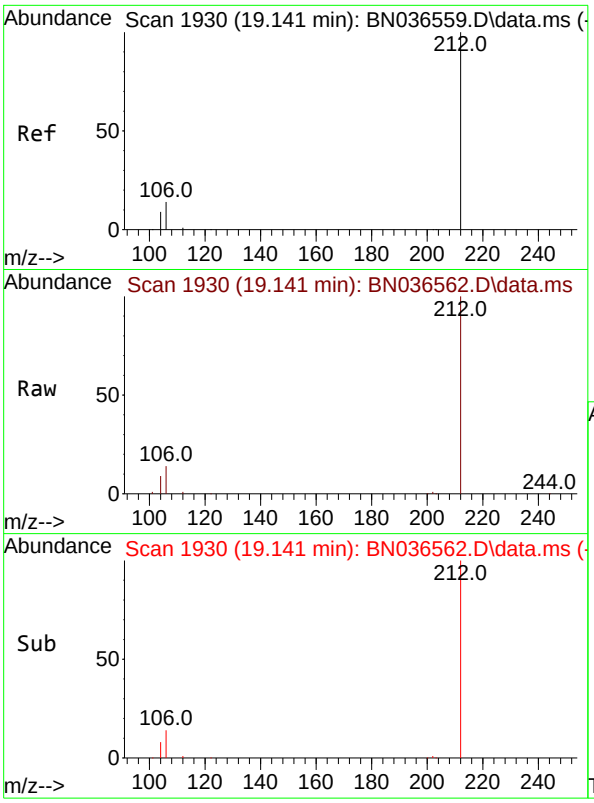


#26
Anthracene
Concen: 3.590 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



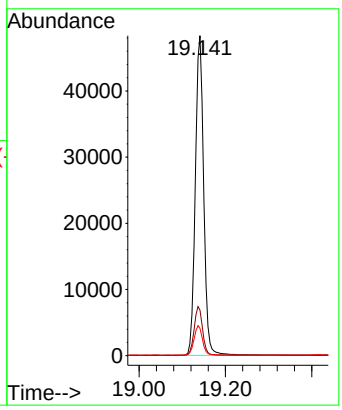


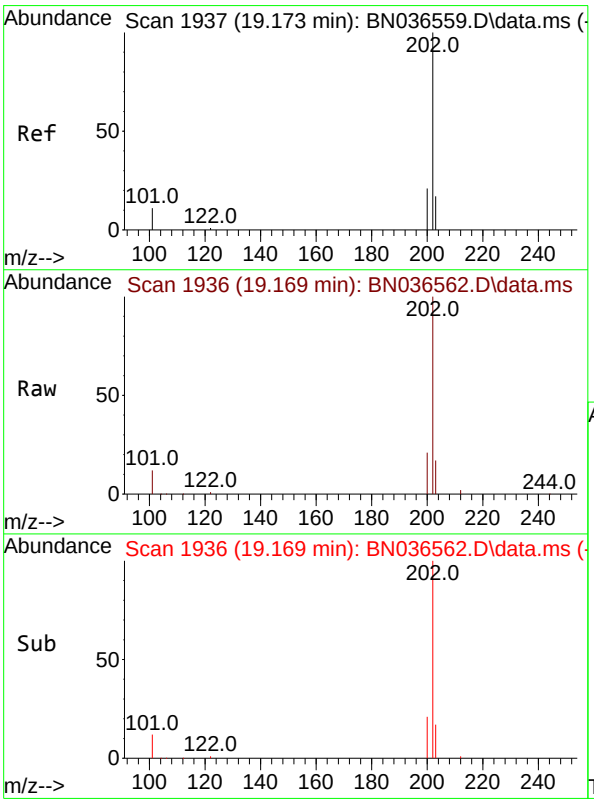
#27
Fluoranthene-d10
Concen: 3.394 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

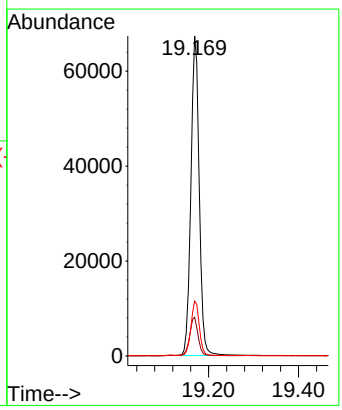


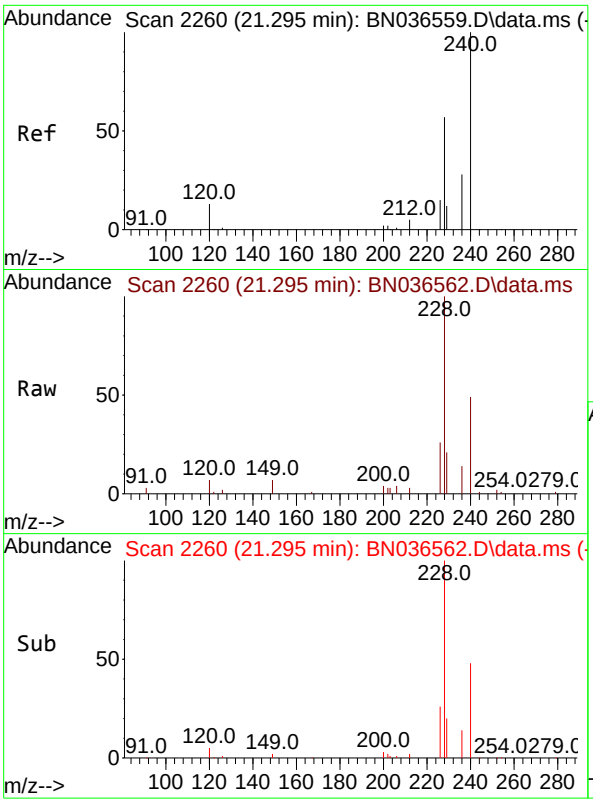


#28
Fluoranthene
Concen: 3.436 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



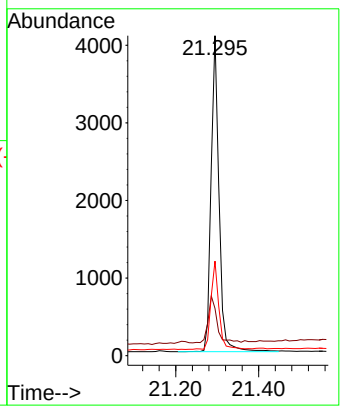


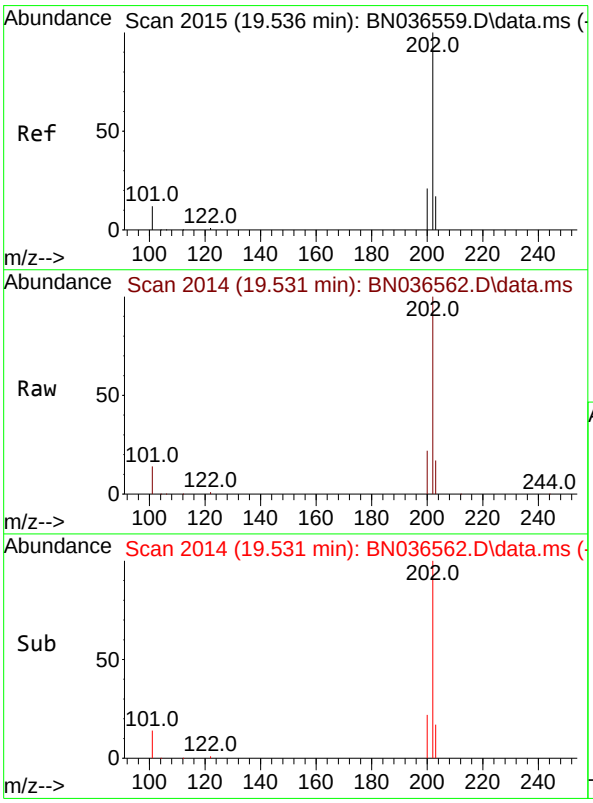
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

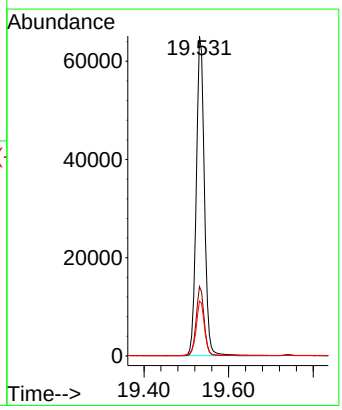


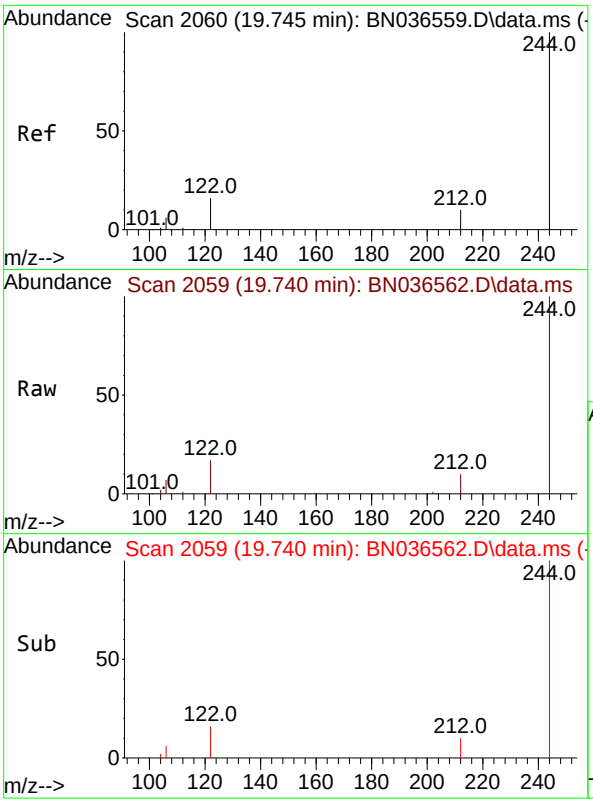


#30
Pyrene
Concen: 3.260 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



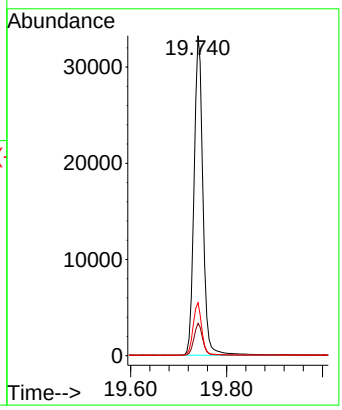


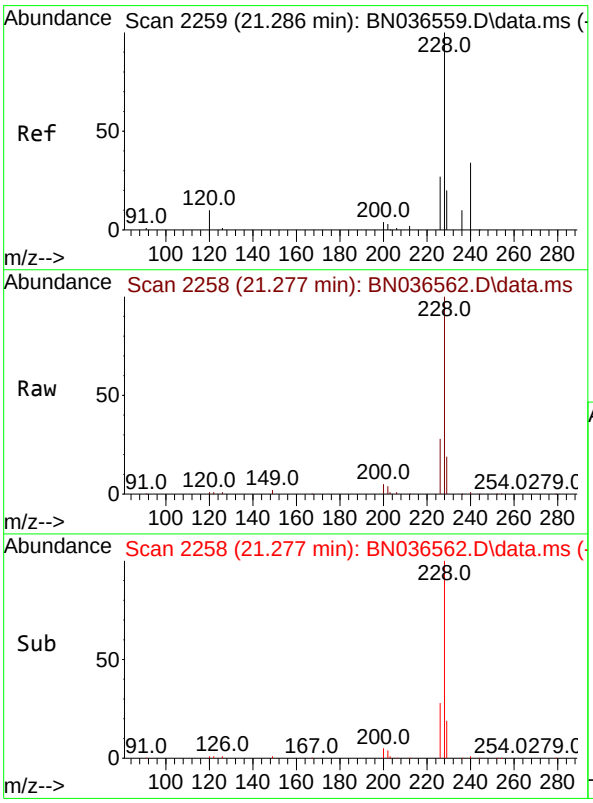
#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

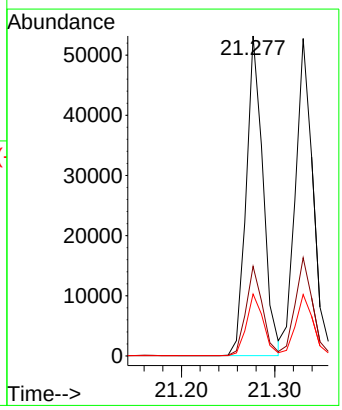


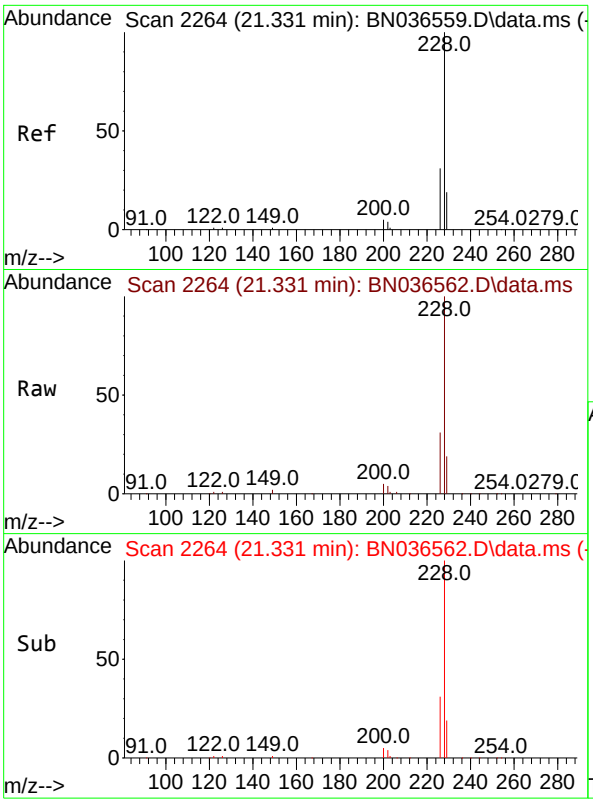


#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



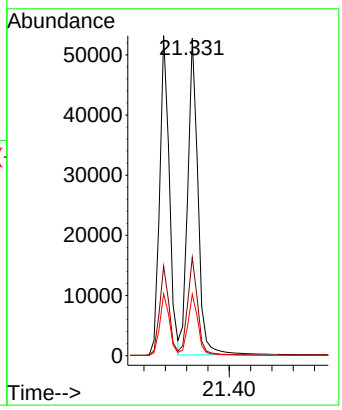


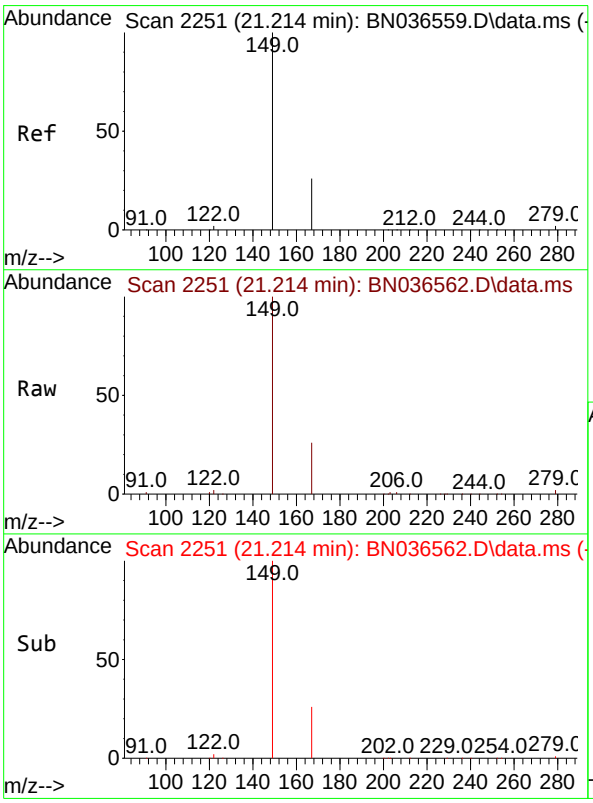
#33
Chrysene
Concen: 3.403 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

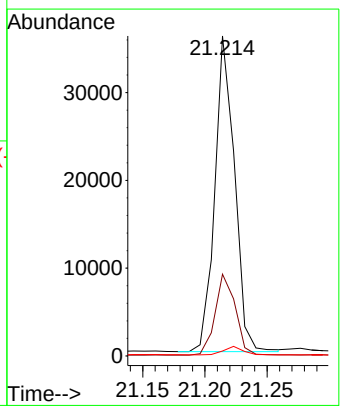


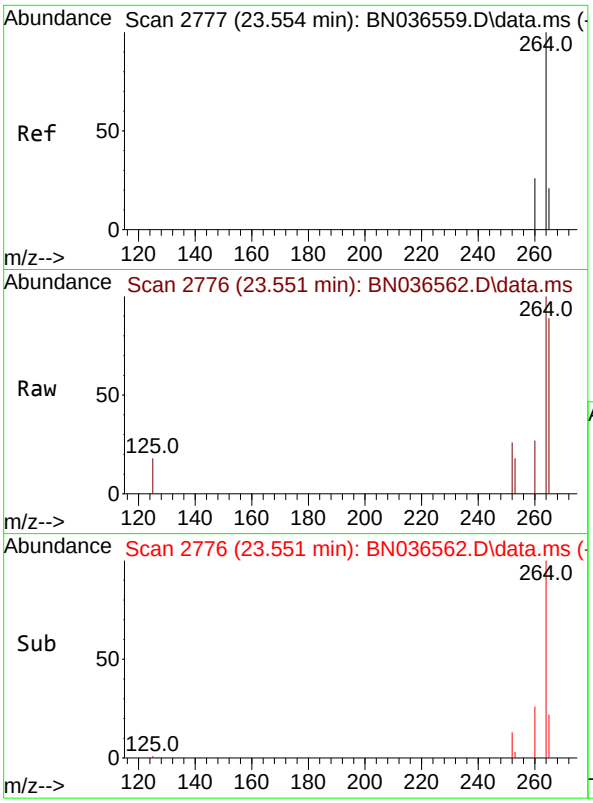


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.947 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#



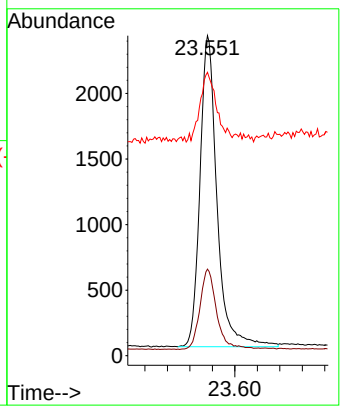


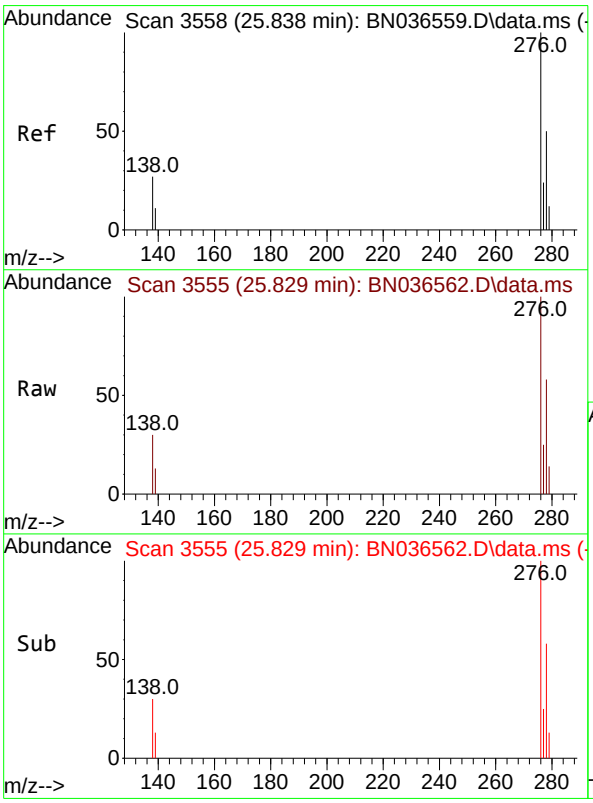
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

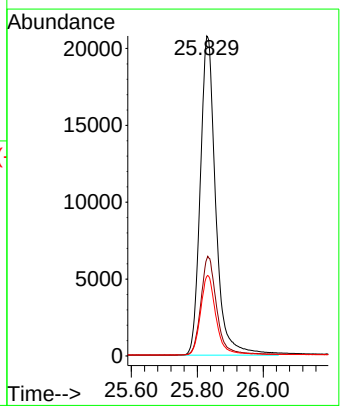


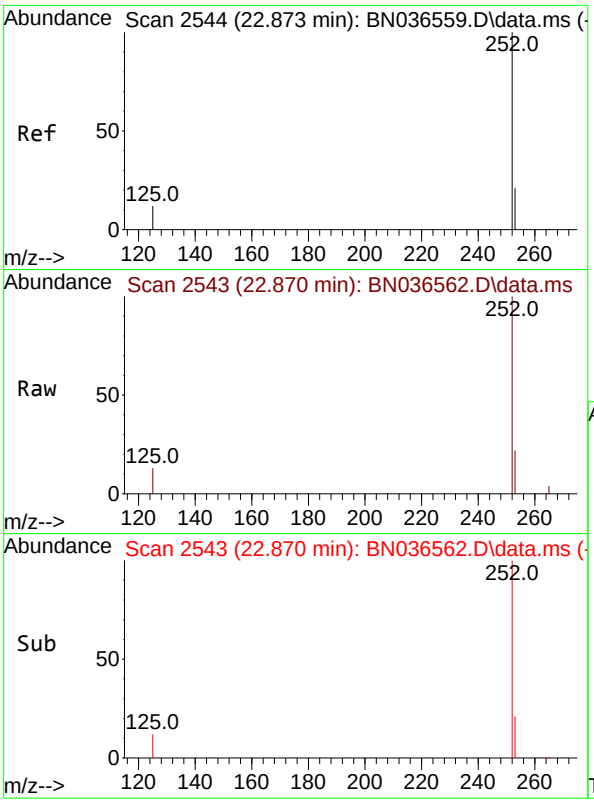


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.754 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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



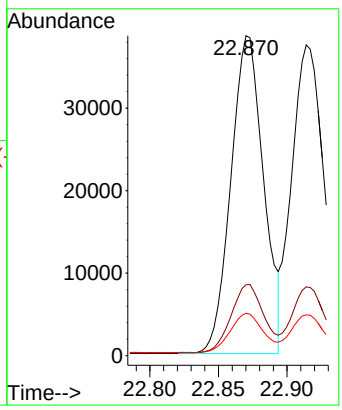


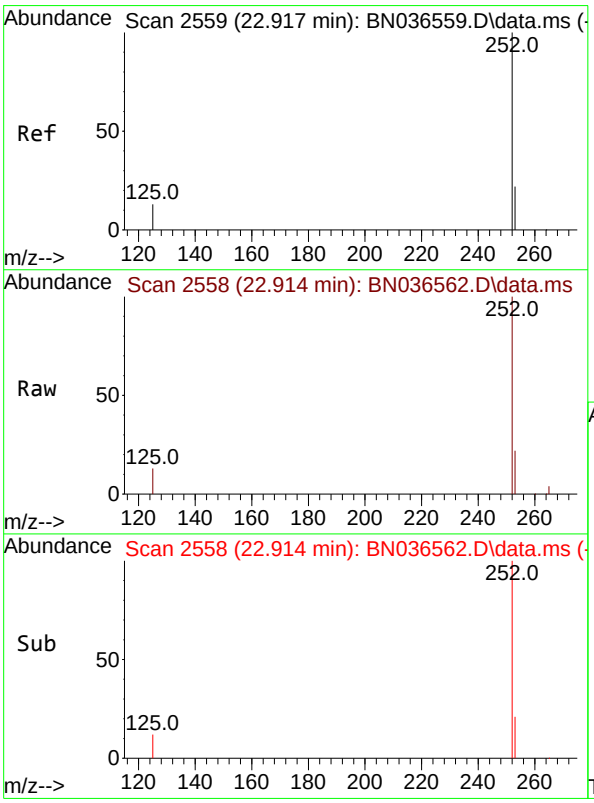
#37
Benzo(b)fluoranthene
Concen: 3.506 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#

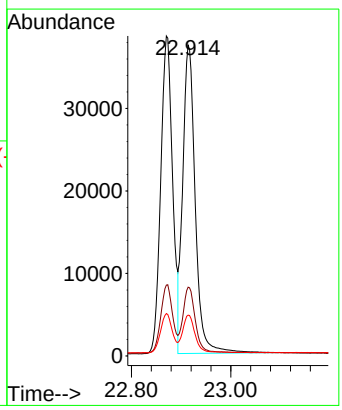


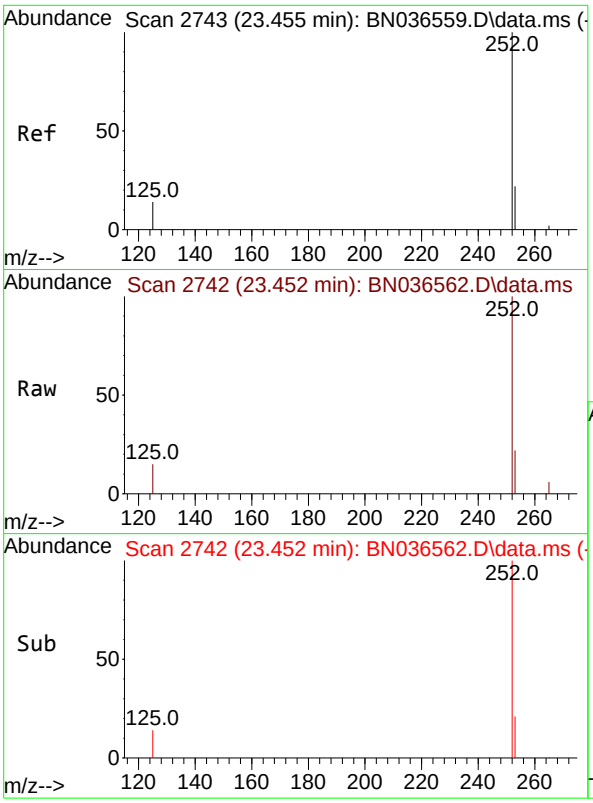


#38
Benzo(k)fluoranthene
Concen: 3.425 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#



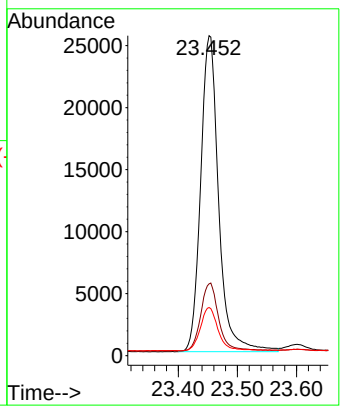


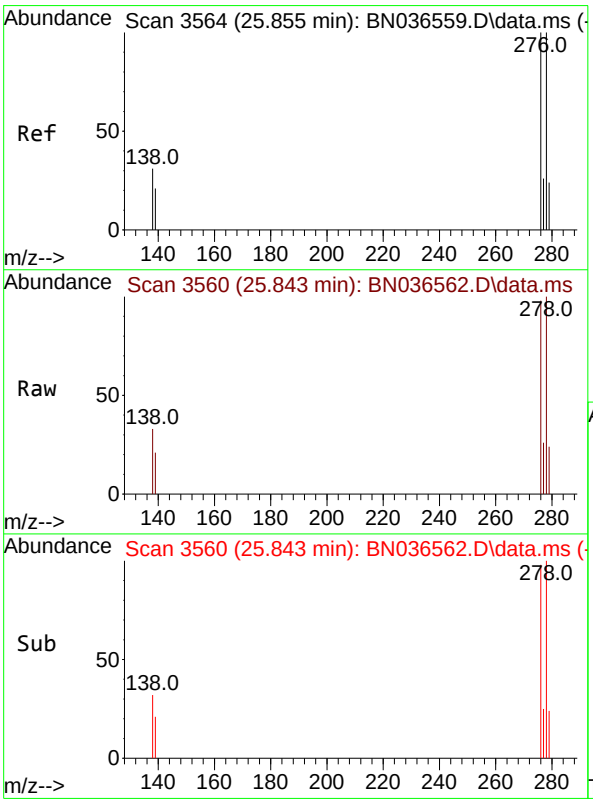
#39
Benzo(a)pyrene
Concen: 3.523 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#

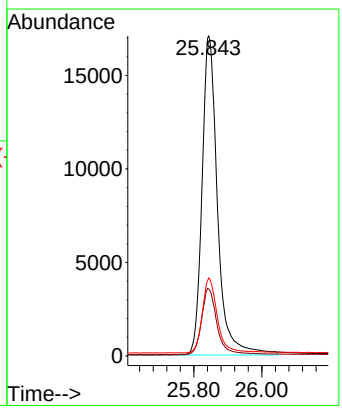


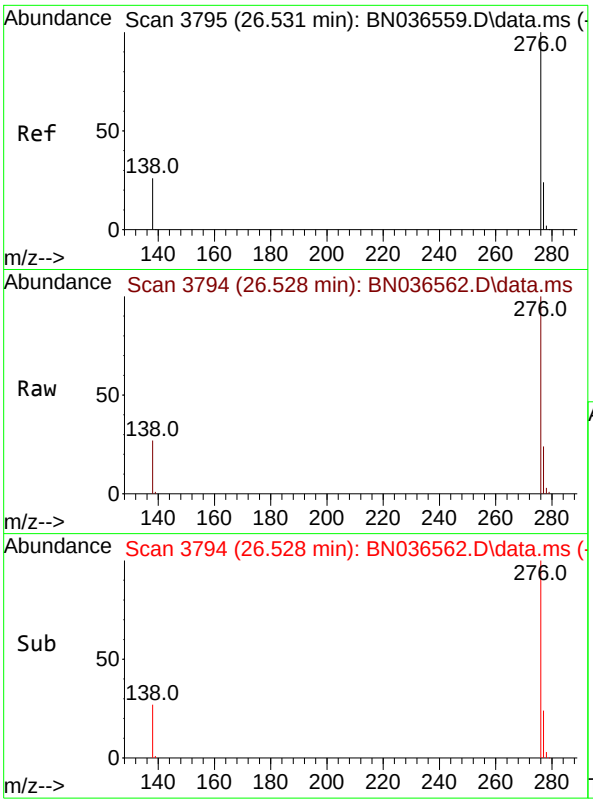


#40
Dibenzo(a,h)anthracene
Concen: 3.846 ng
RT: 25.843 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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#



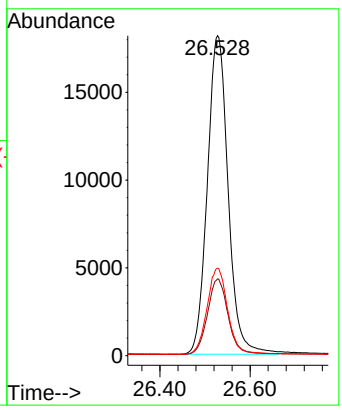


#41
Benzo(g,h,i)perylene
Concen: 3.606 ng
RT: 26.528 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

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

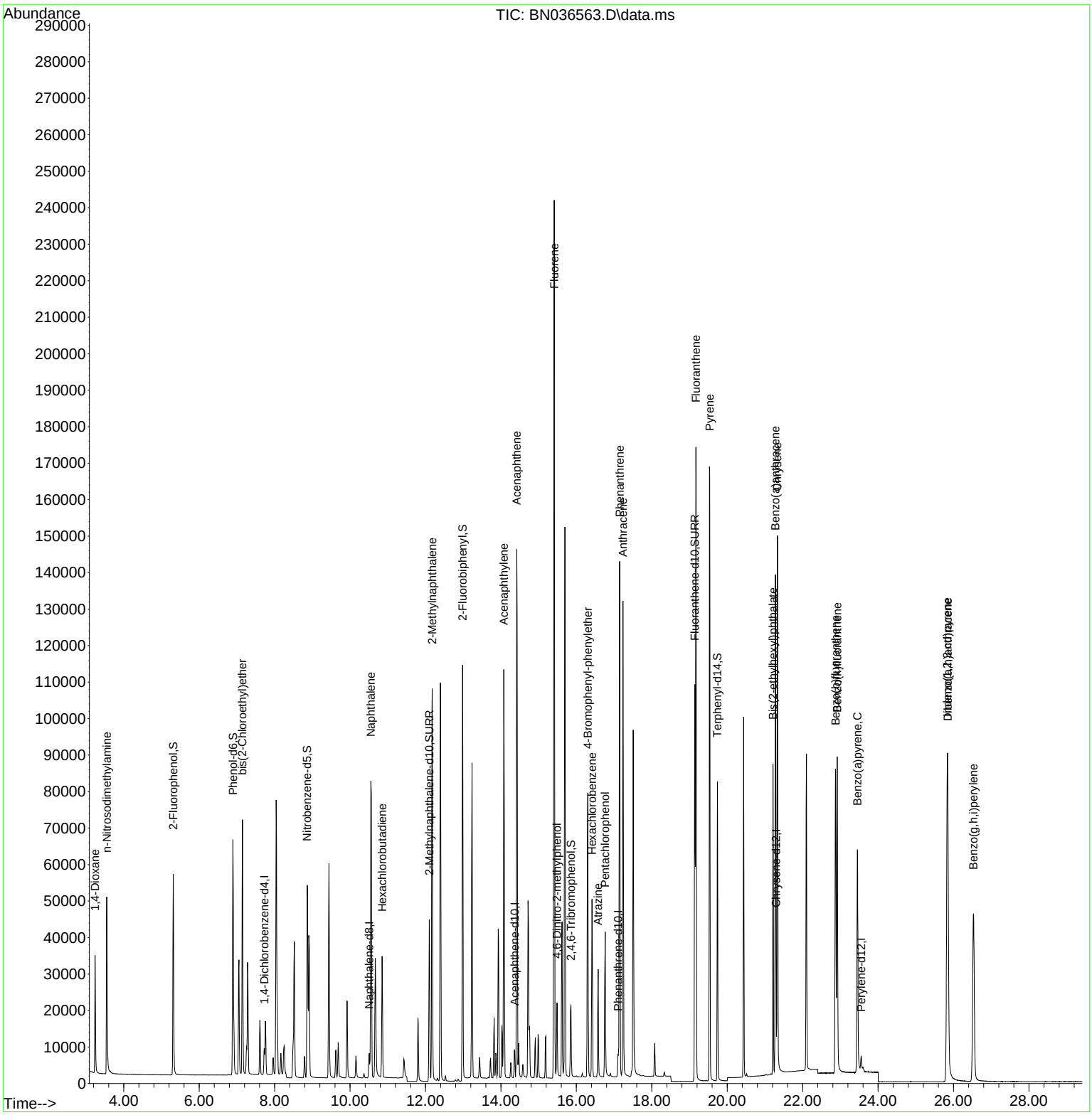
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	#	0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng		0.00
29) Chrysene-d12	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

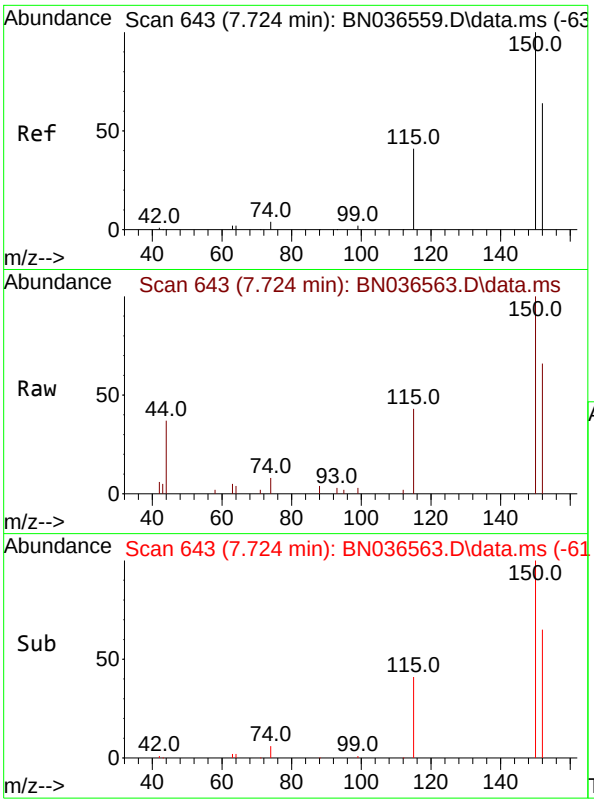
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



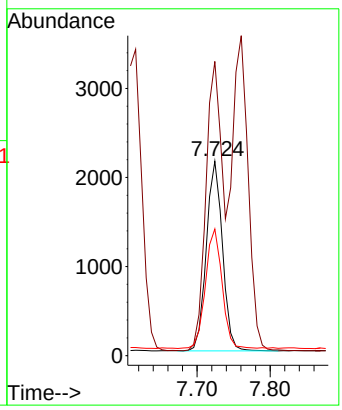


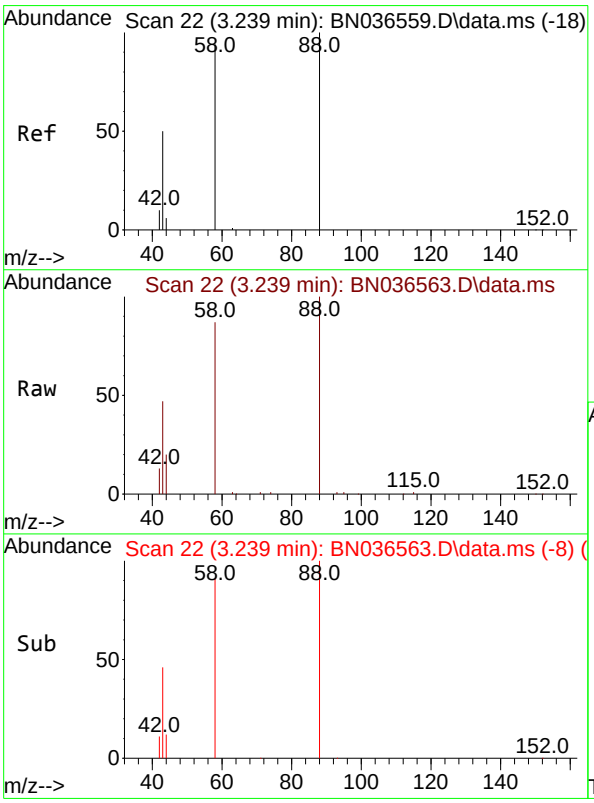
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

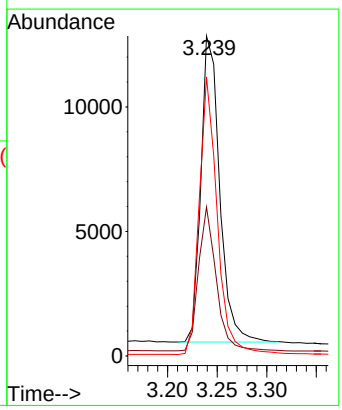


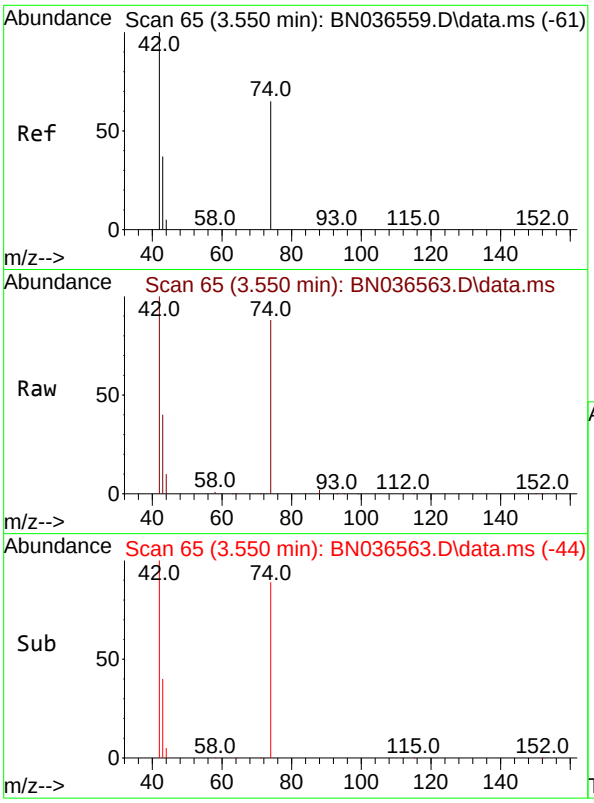


#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



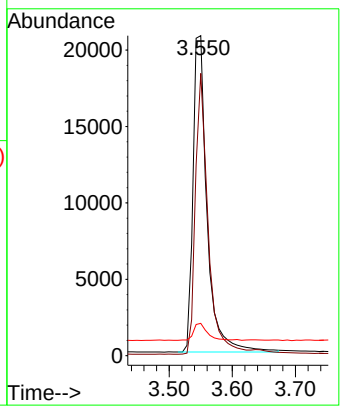


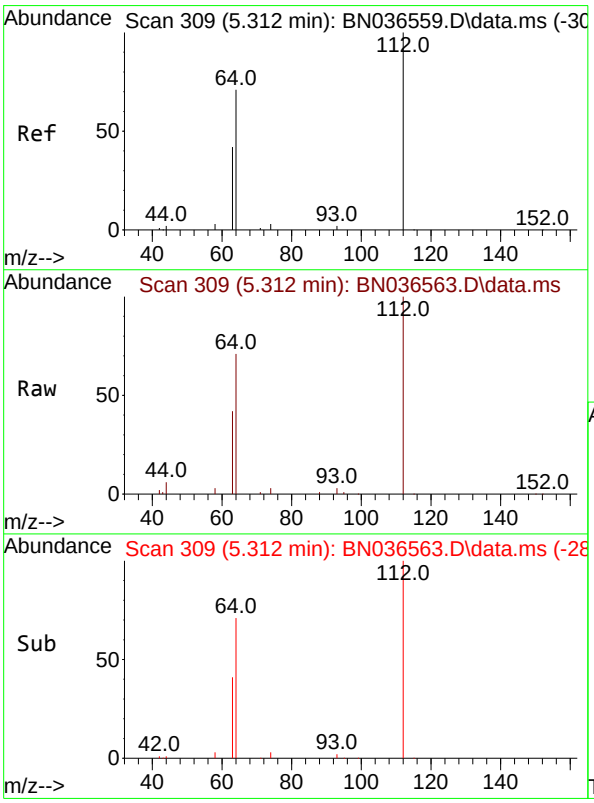
#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

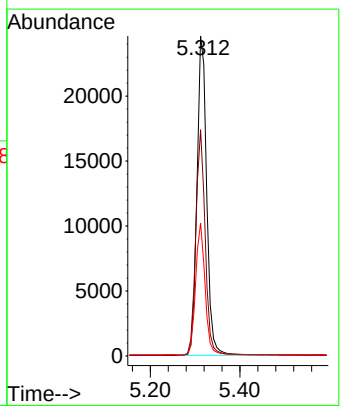


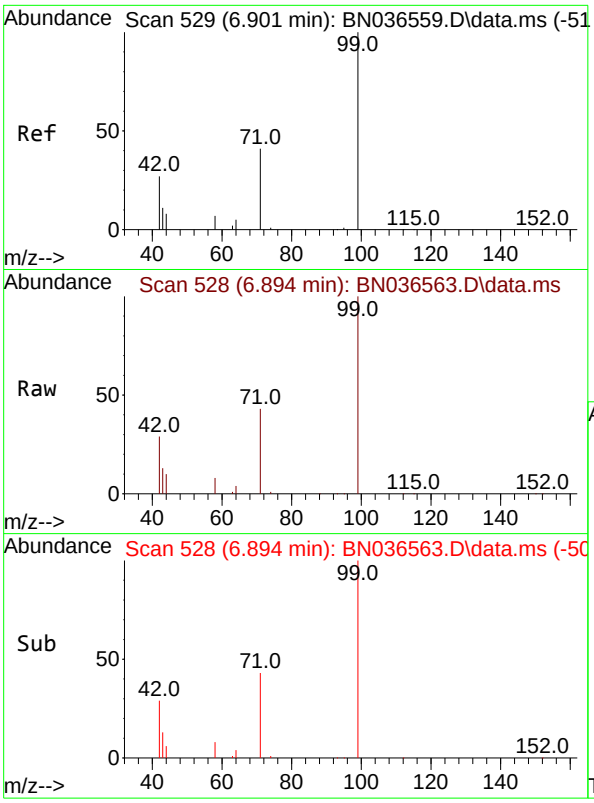


#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



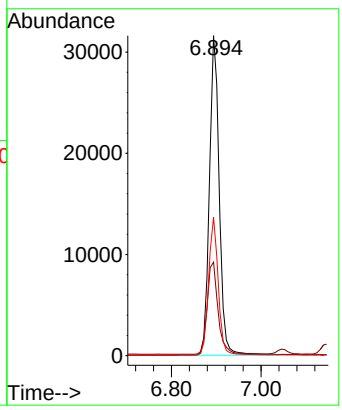


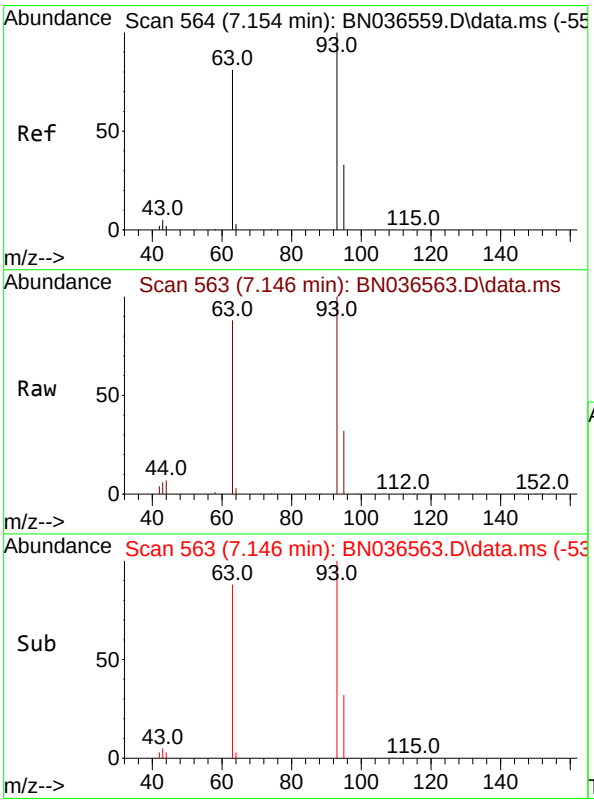
#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

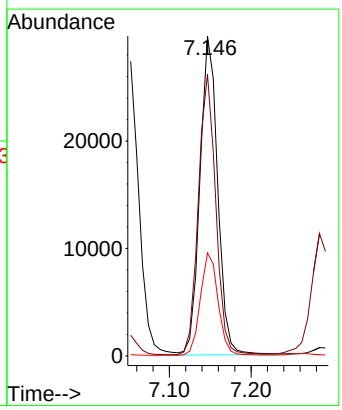


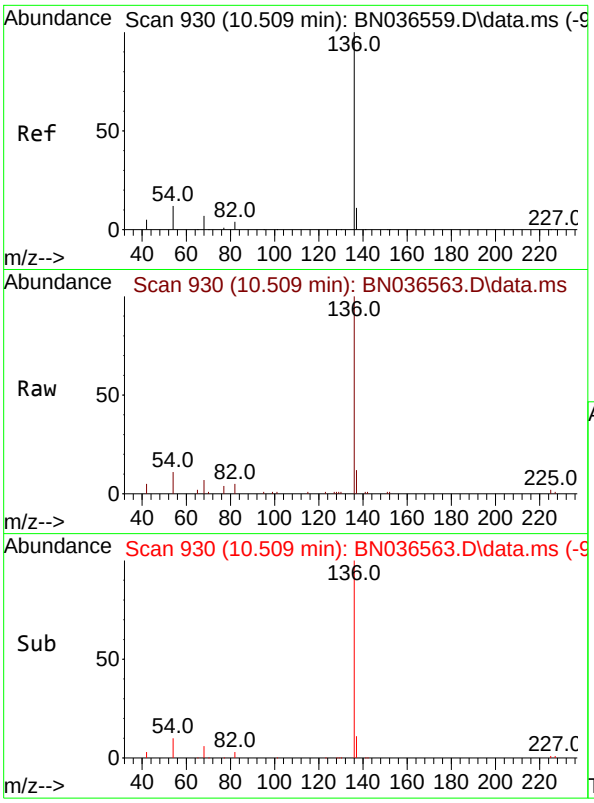


#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



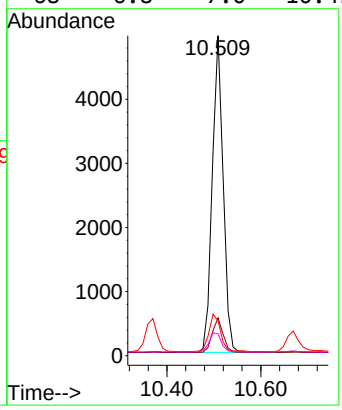


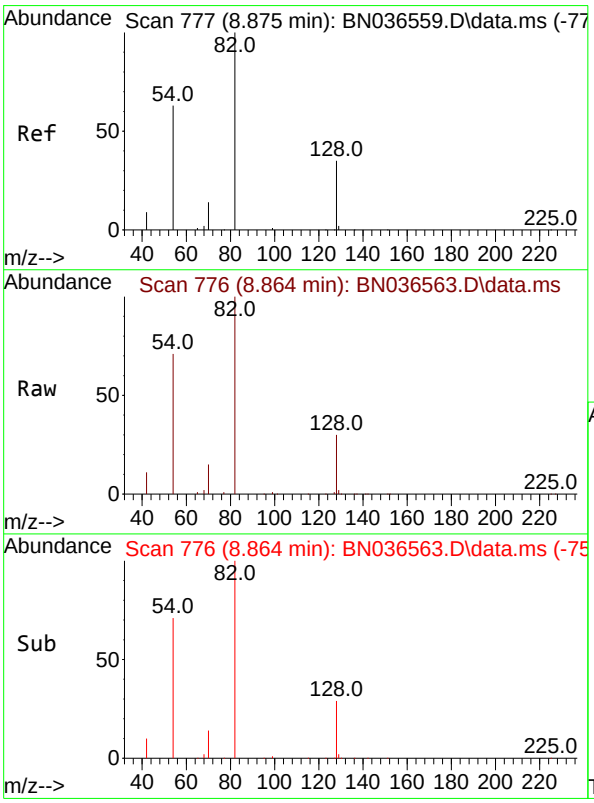
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

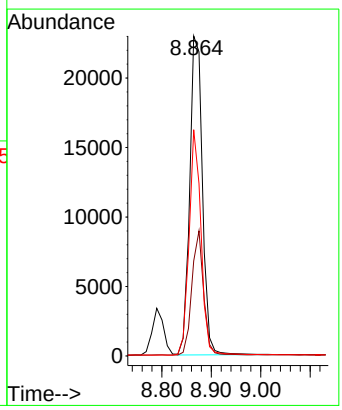


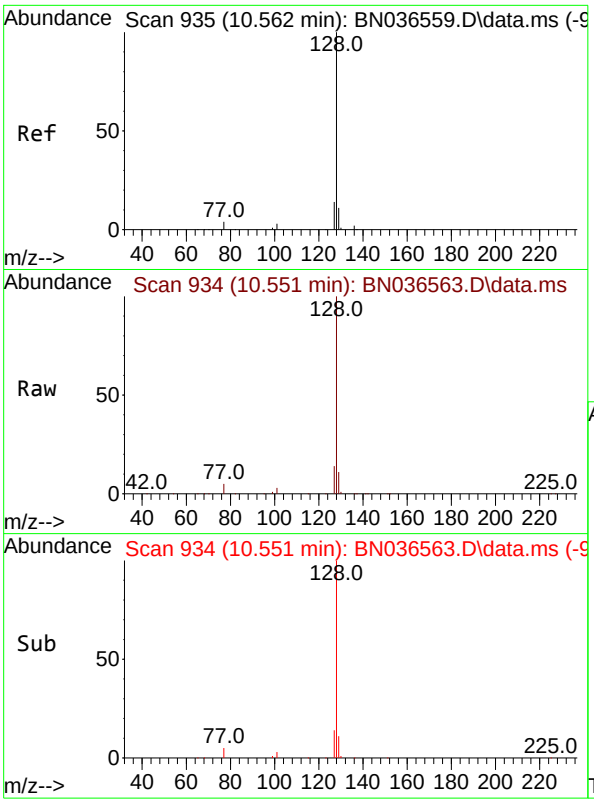


#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



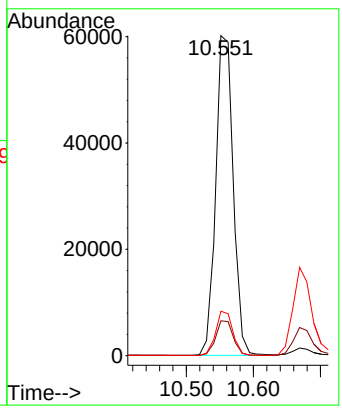


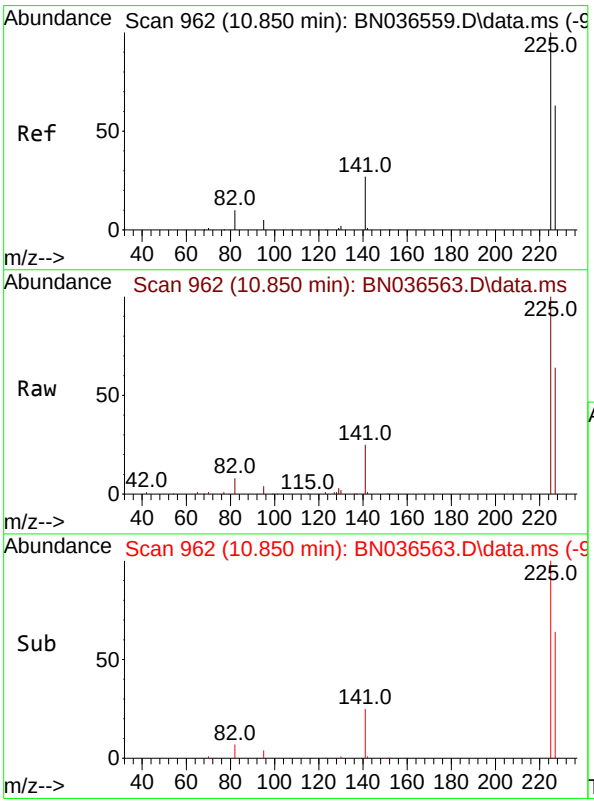
#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

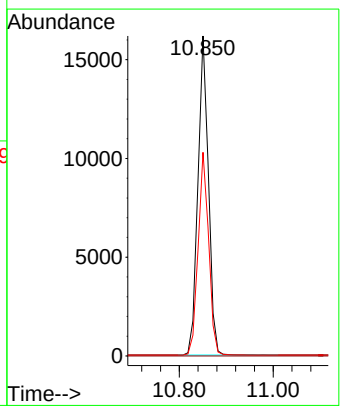


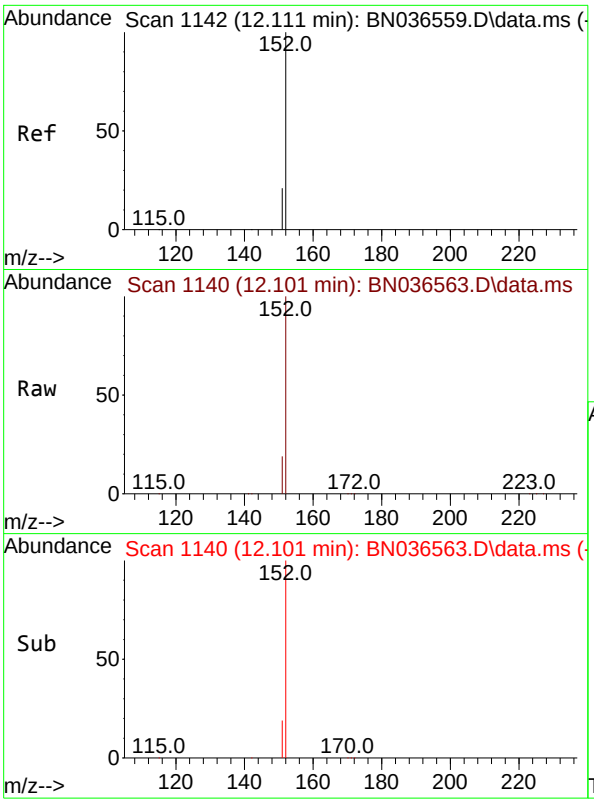


#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



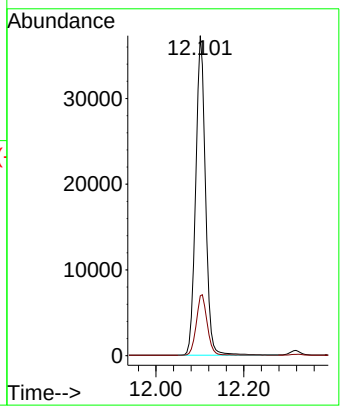


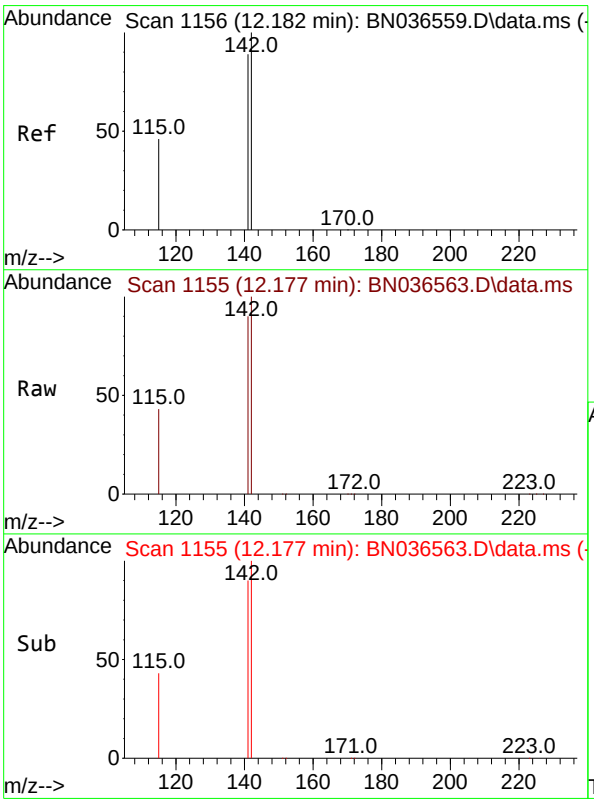
#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 58048

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

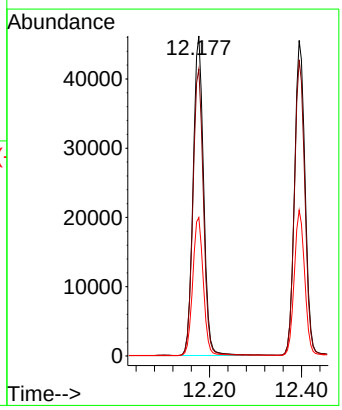


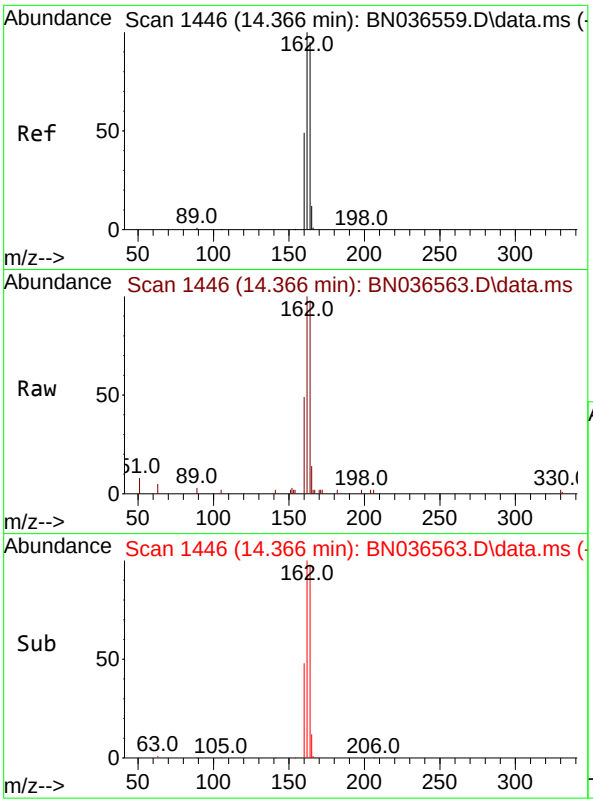


#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



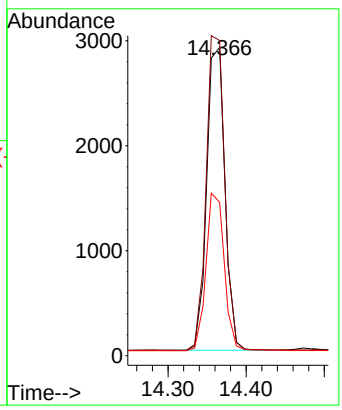


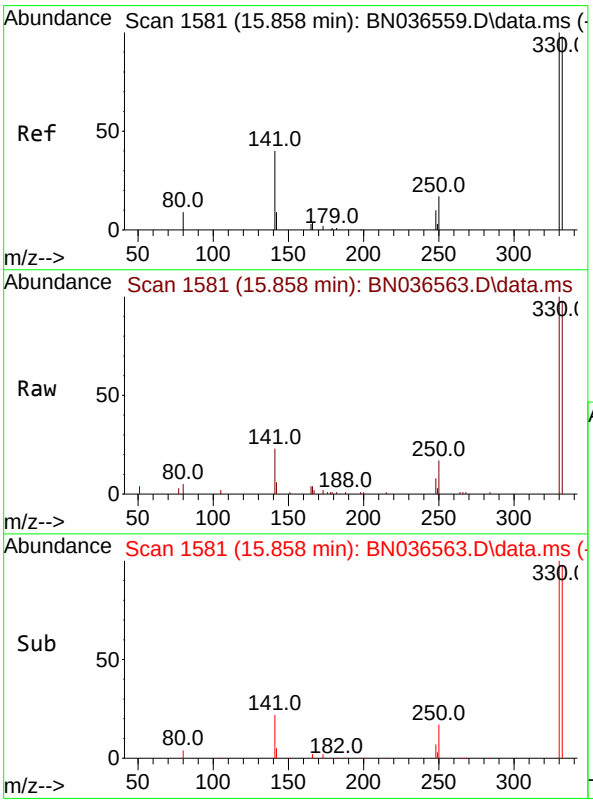
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

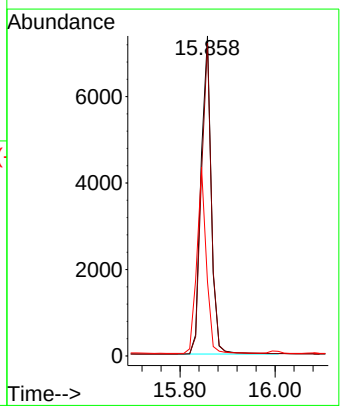


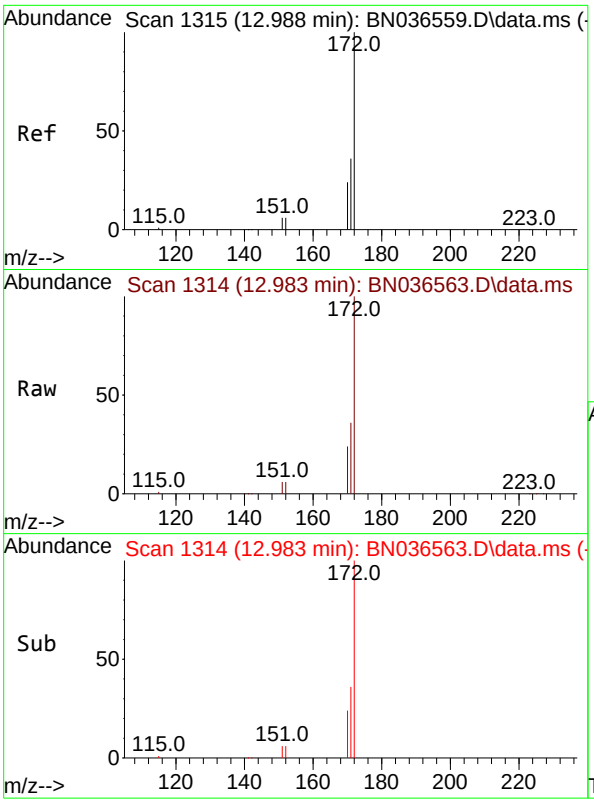


#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



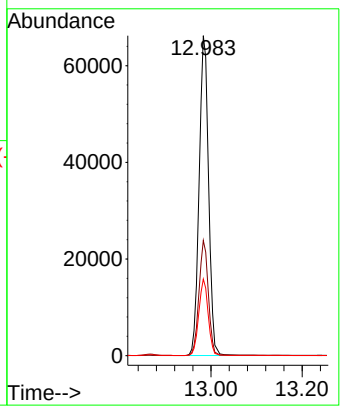


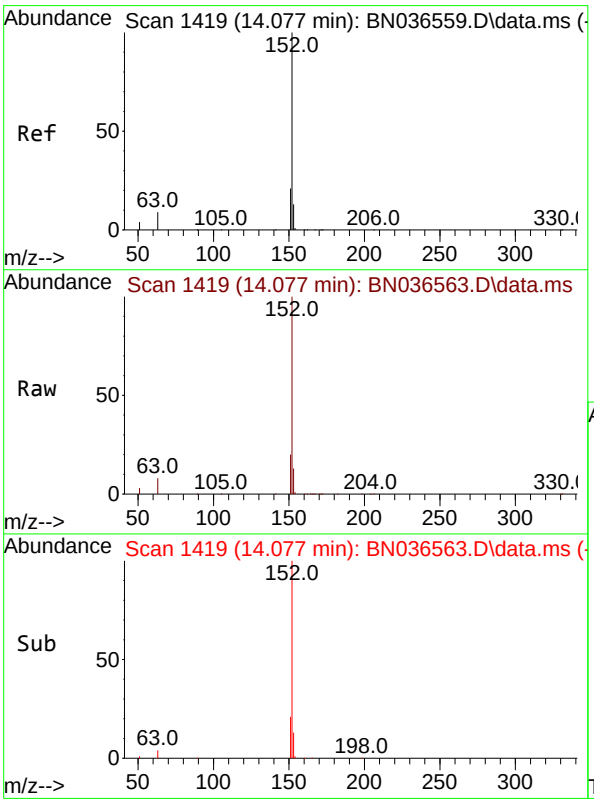
#15
2-Fluorobiphenyl
Concen: 5.199 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

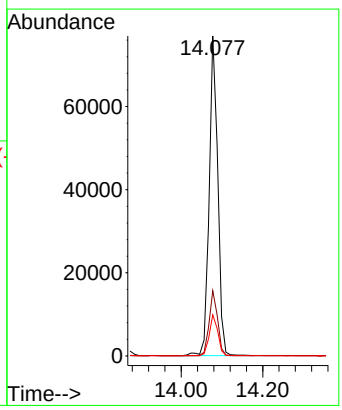


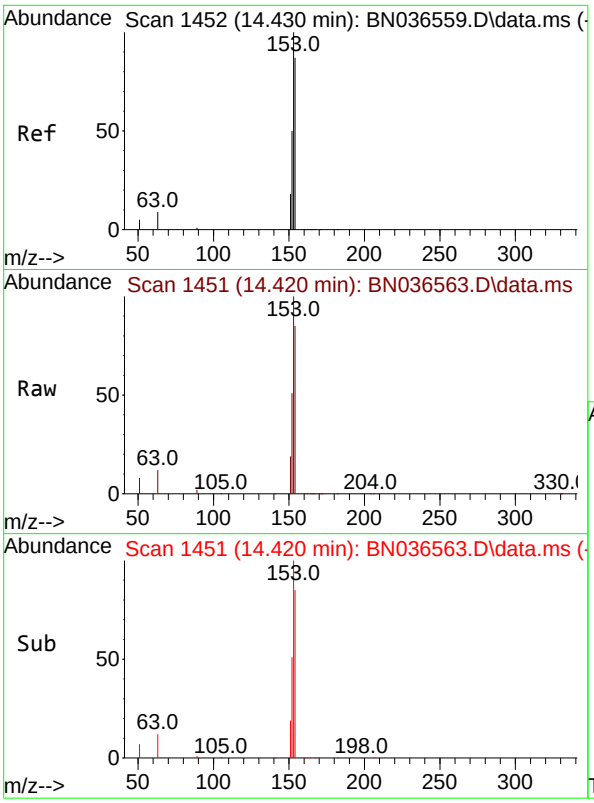


#16
Acenaphthylene
Concen: 5.125 ng
RT: 14.077 min Scan# 1419
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



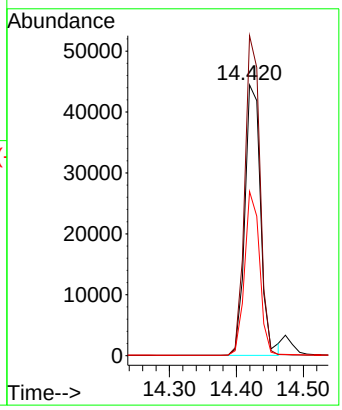


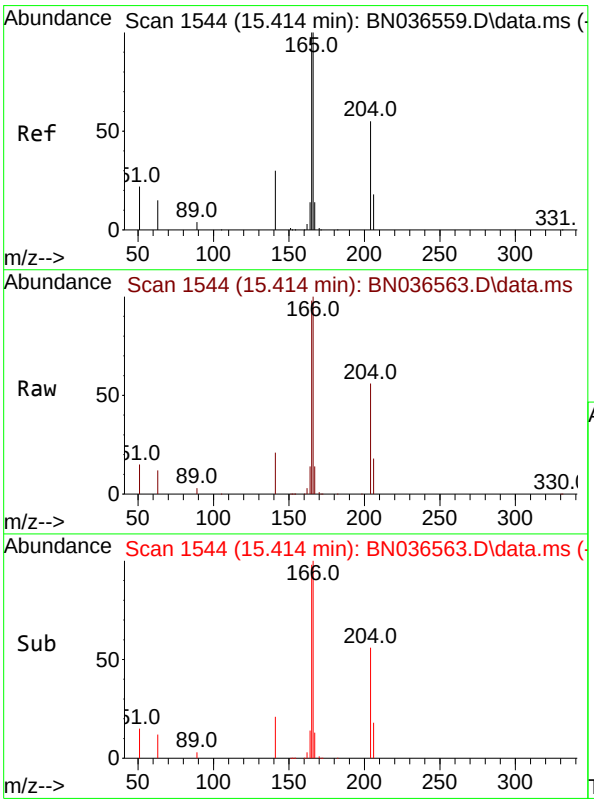
#17
Acenaphthene
Concen: 5.028 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

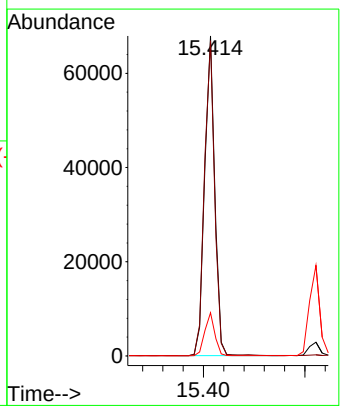


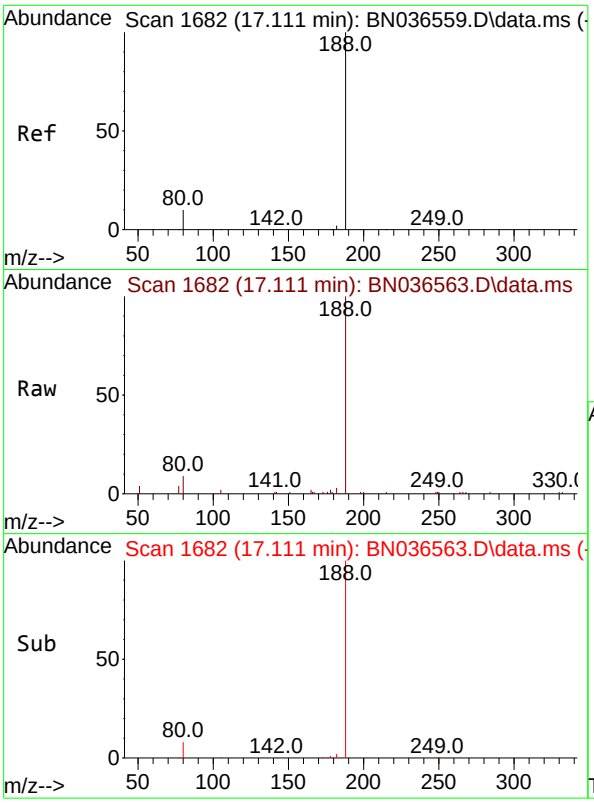


#18
Fluorene
Concen: 4.937 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



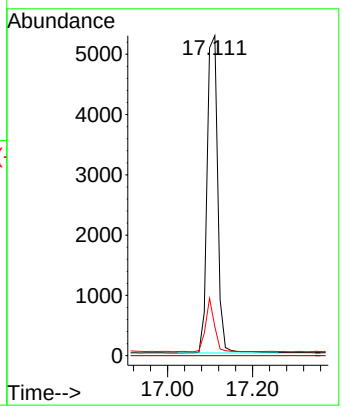


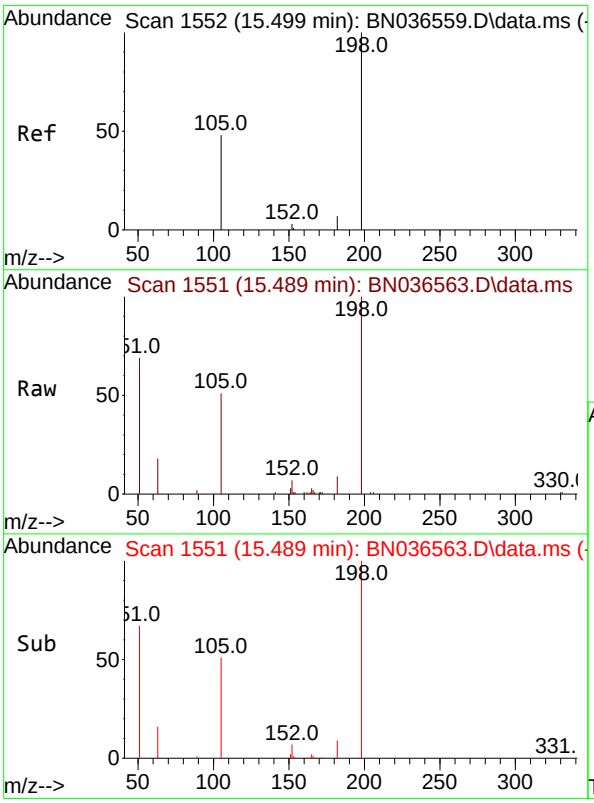
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

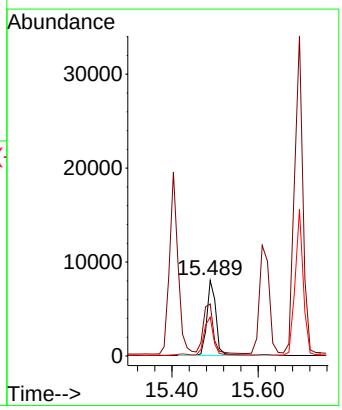


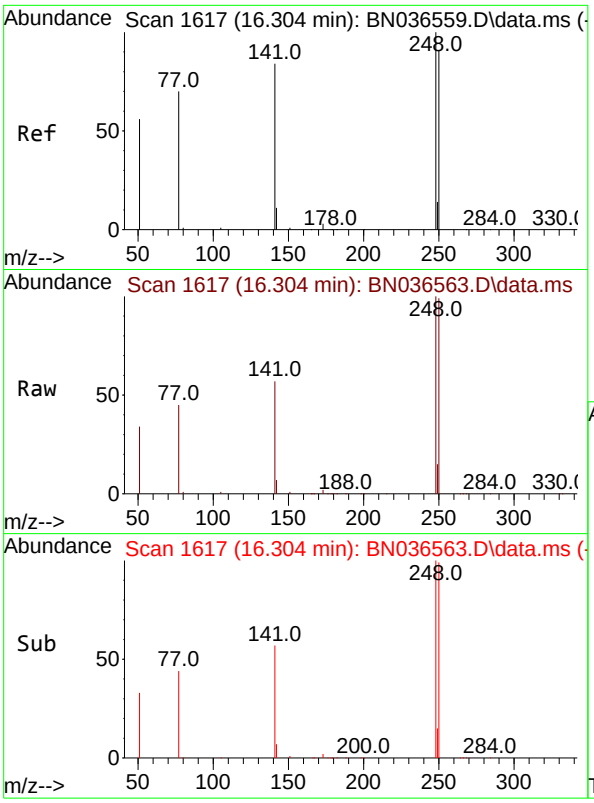


#20
4,6-Dinitro-2-methylphenol
Concen: 4.968 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#



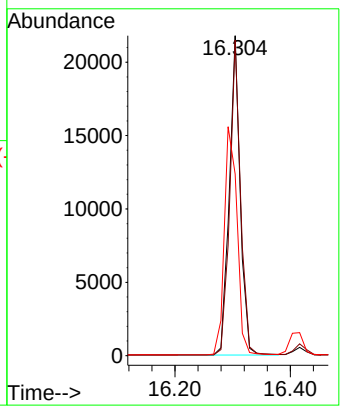


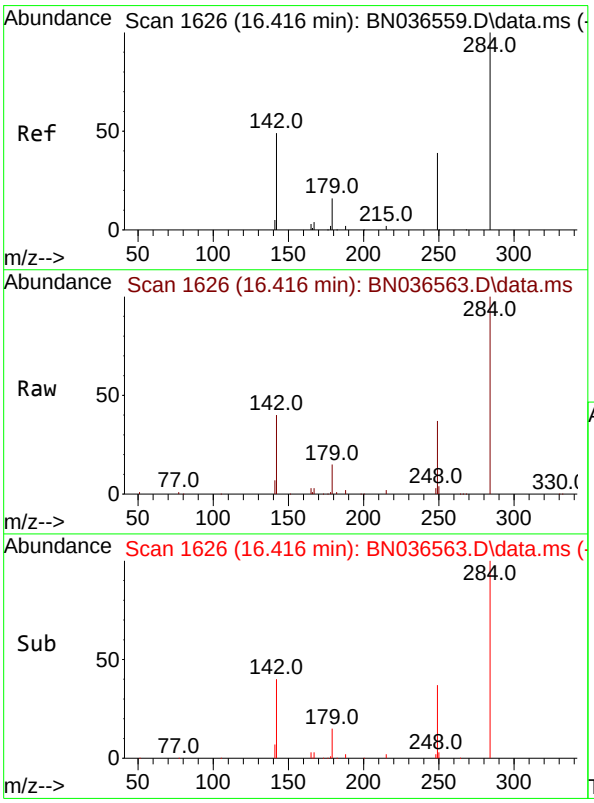
#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

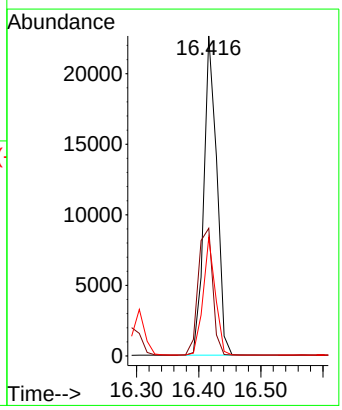


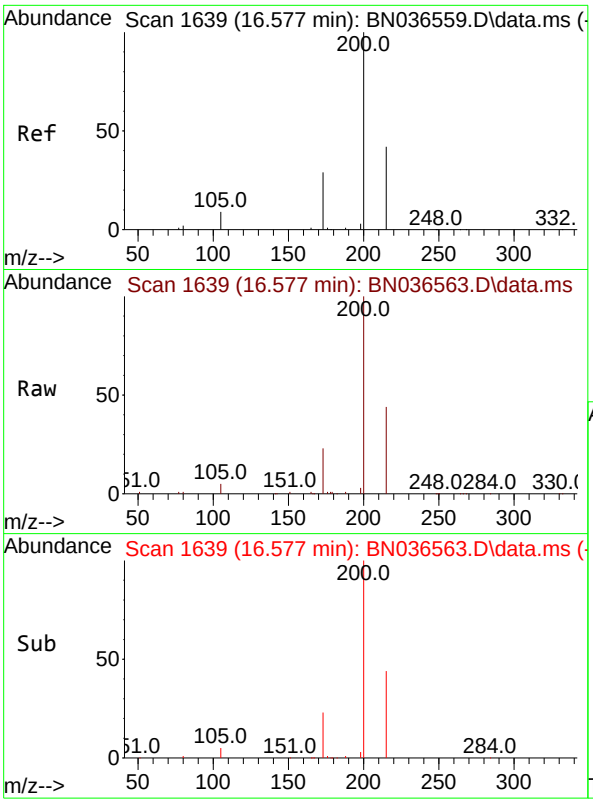


#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



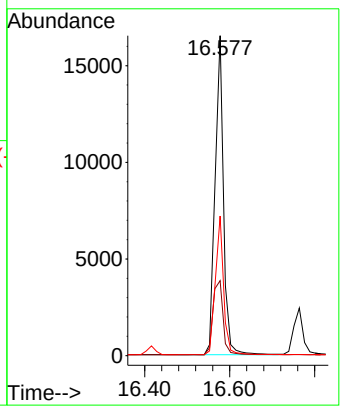


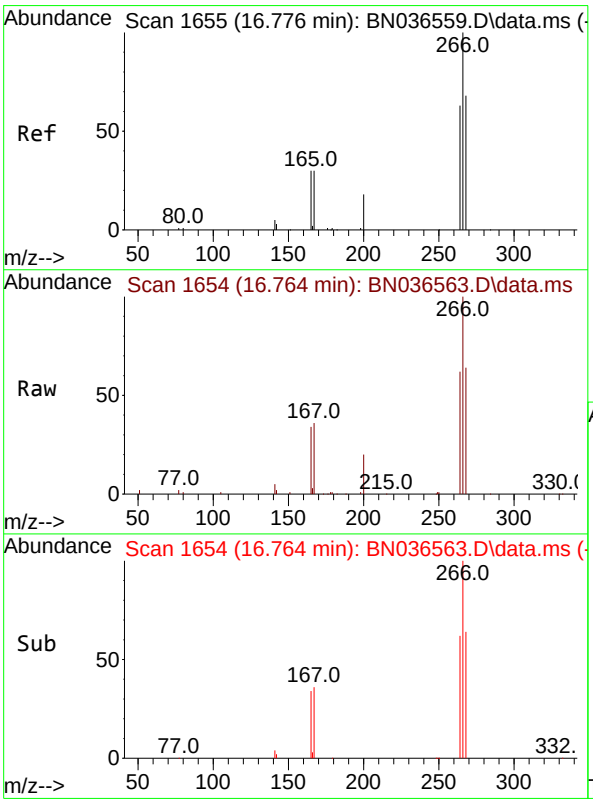
#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

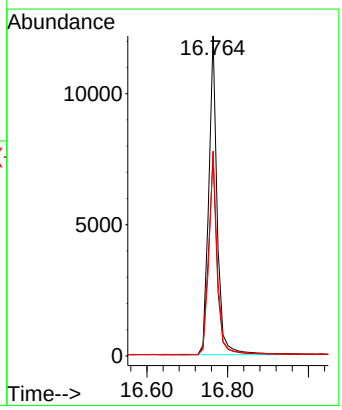


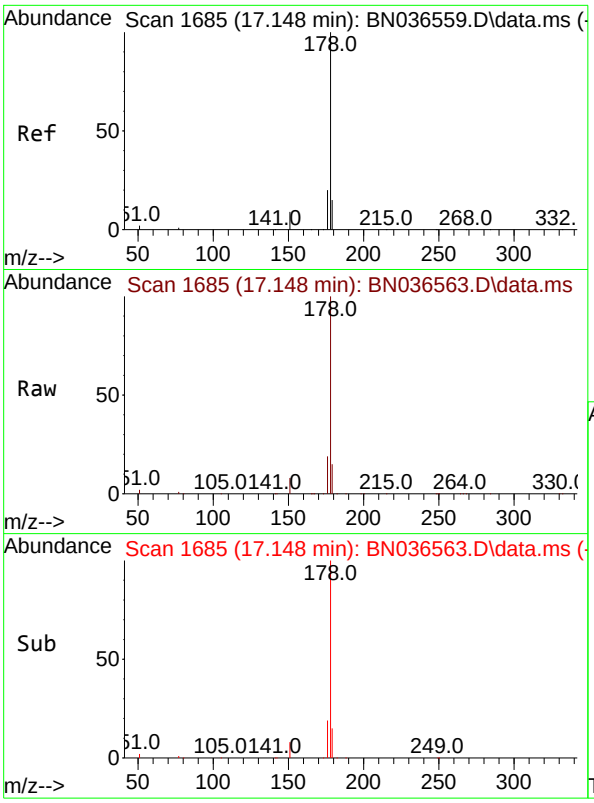


#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



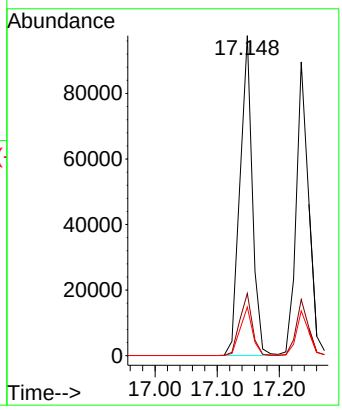


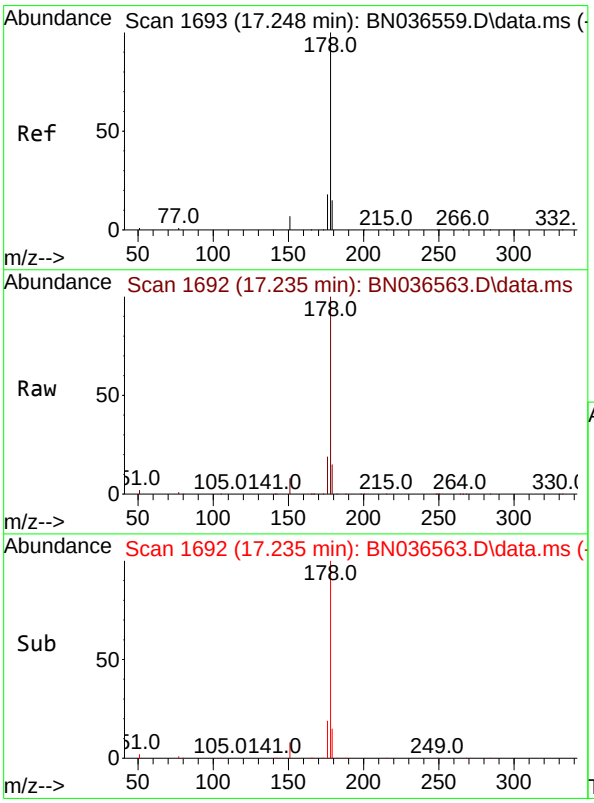
#25
Phenanthrene
Concen: 4.979 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

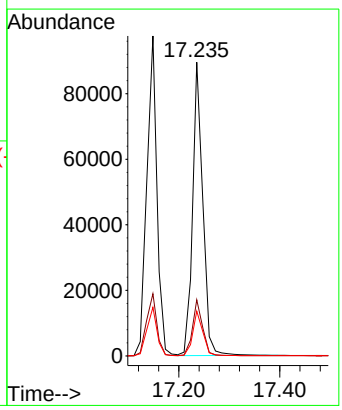


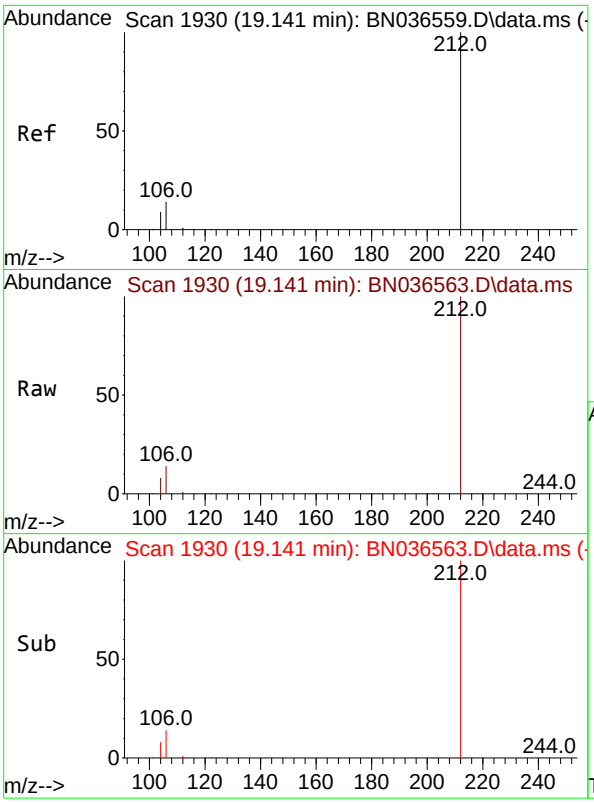


#26
Anthracene
Concen: 5.135 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



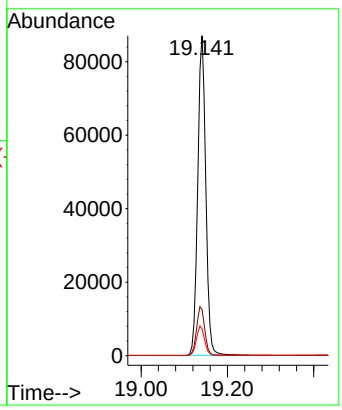


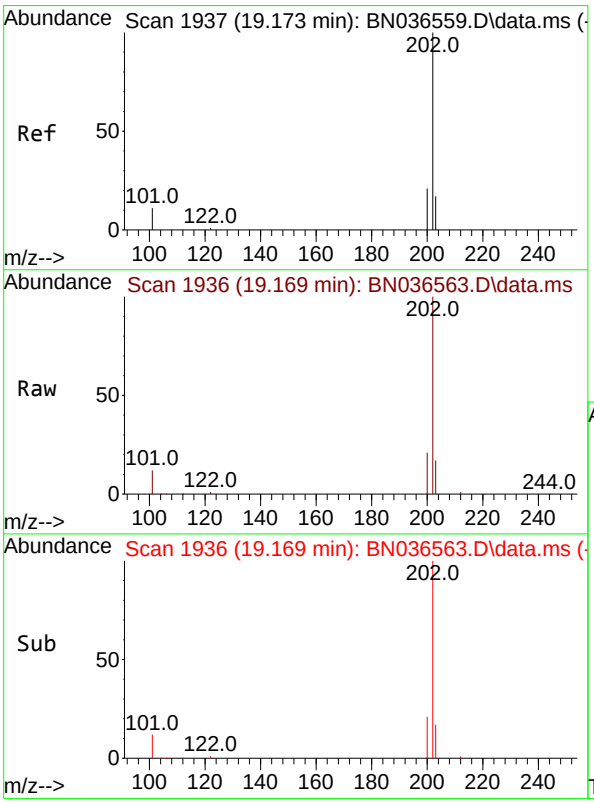
#27
Fluoranthene-d10
Concen: 4.879 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

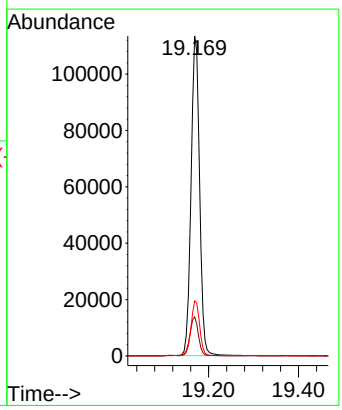


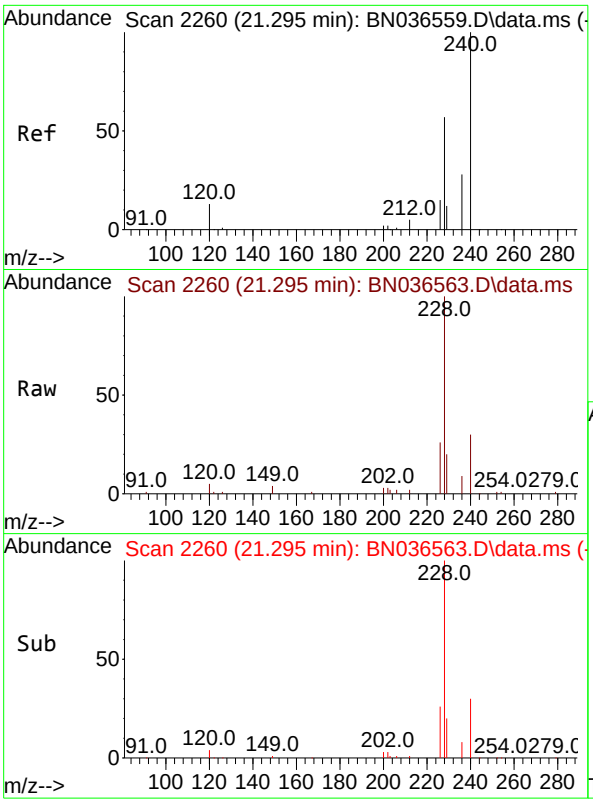


#28
Fluoranthene
Concen: 4.883 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



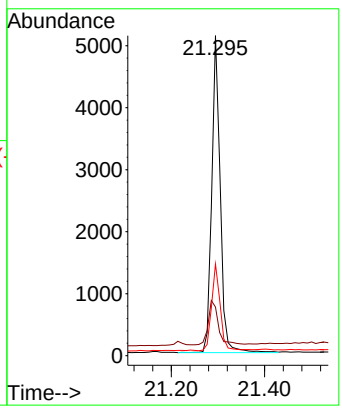


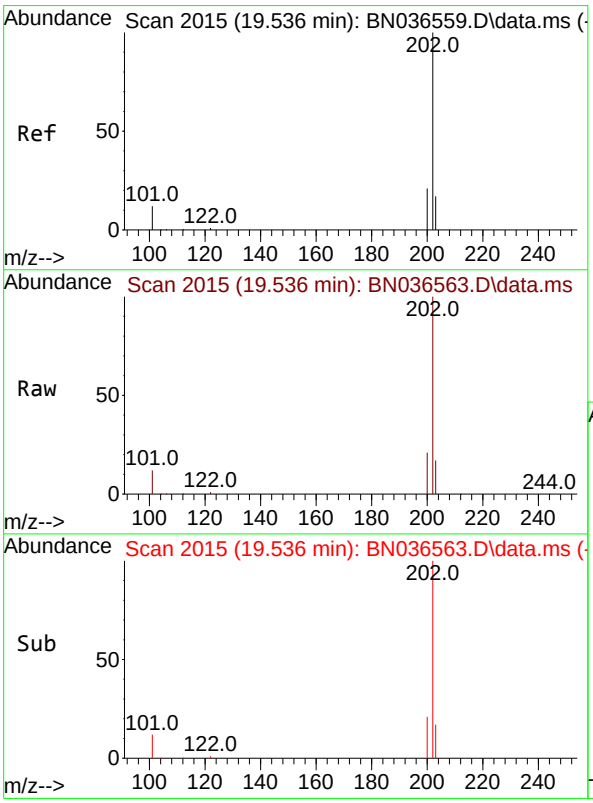
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

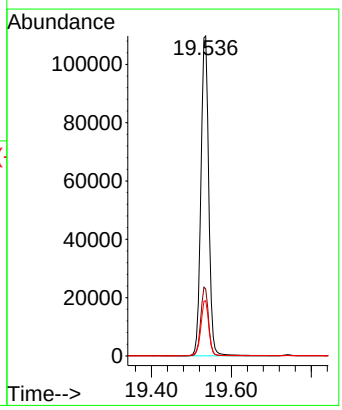


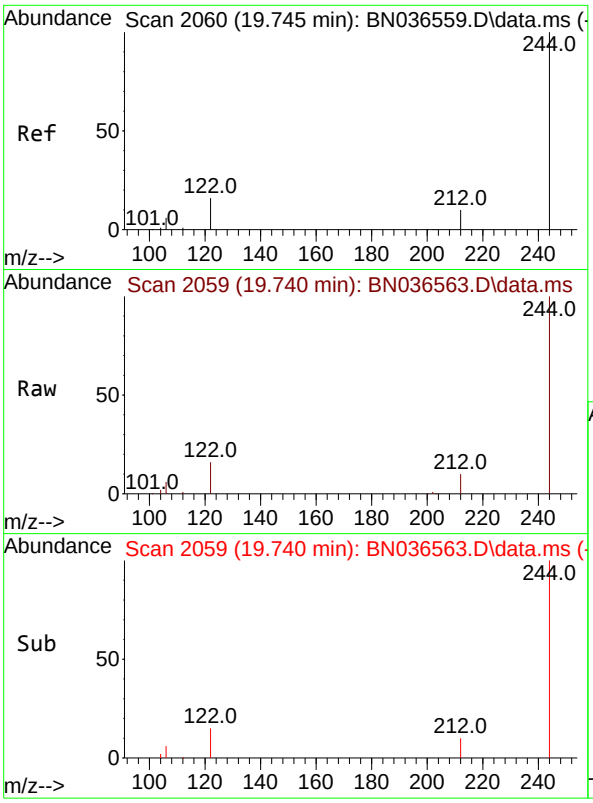


#30
Pyrene
Concen: 4.695 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



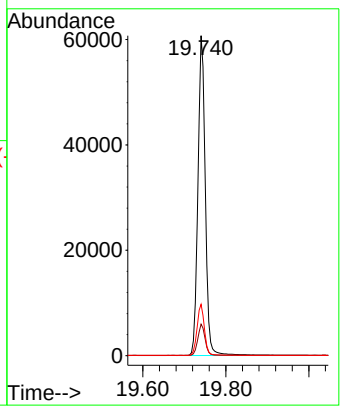


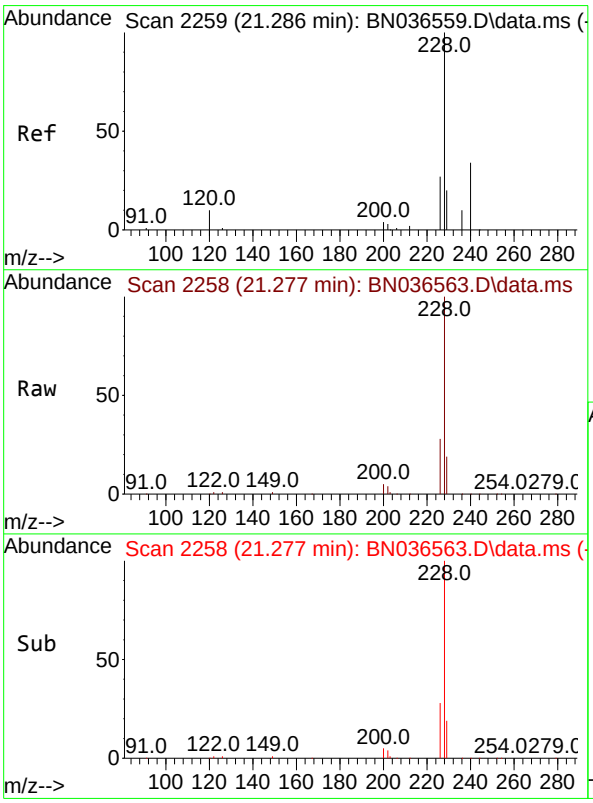
#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

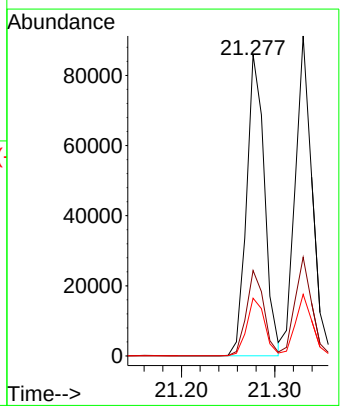


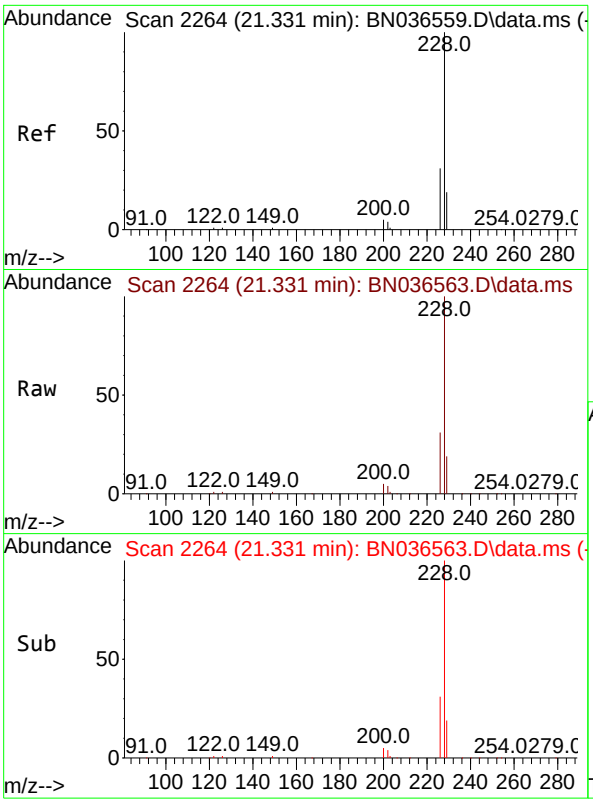


#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



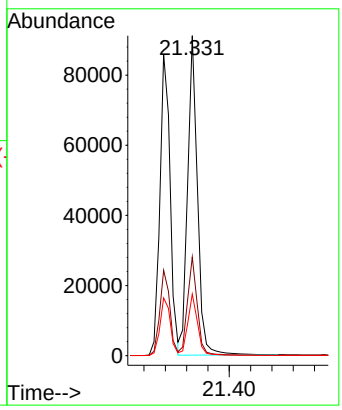


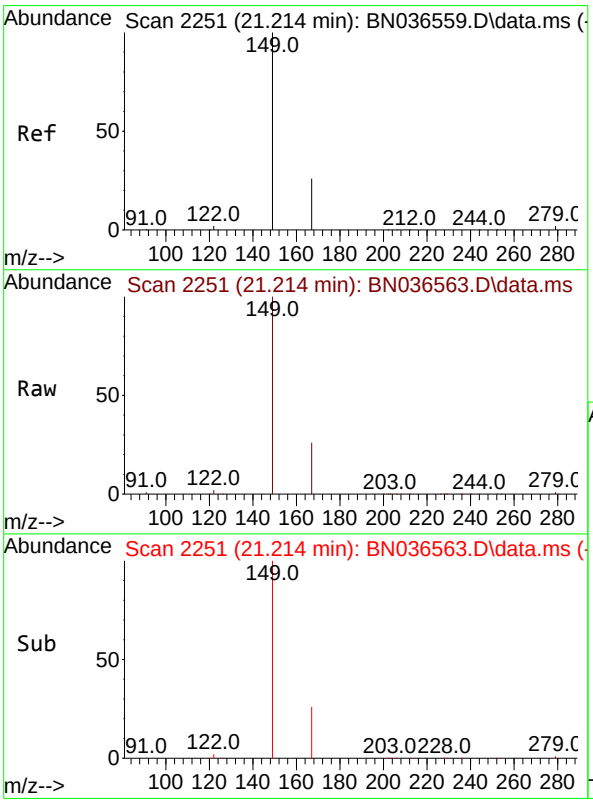
#33
Chrysene
Concen: 4.764 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

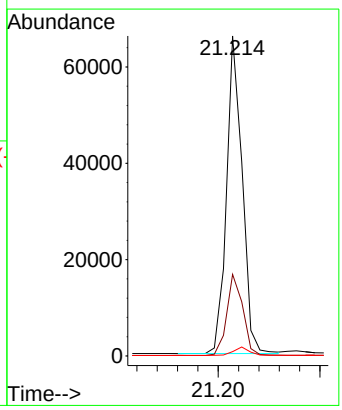


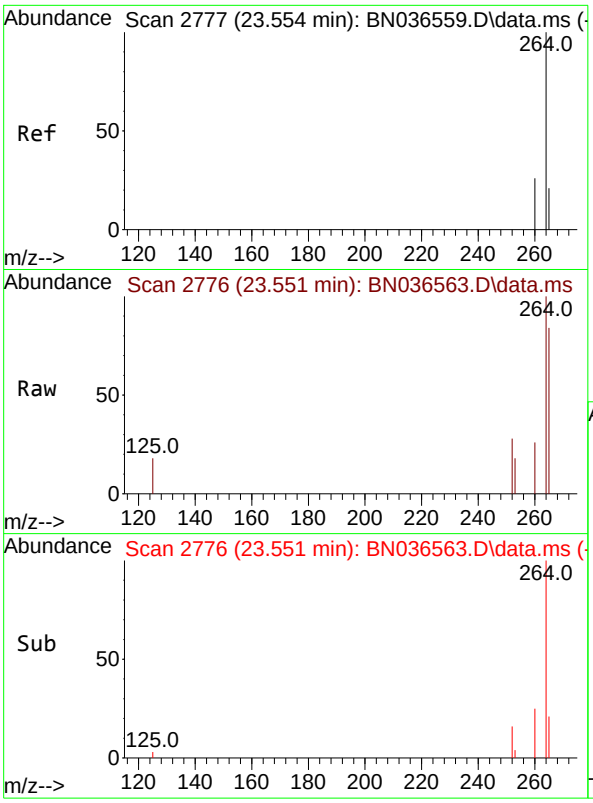


#34
Bis(2-ethylhexyl)phthalate
Concen: 4.390 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#



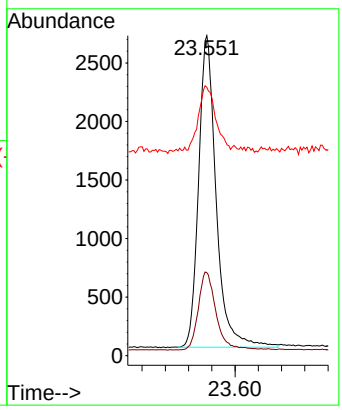


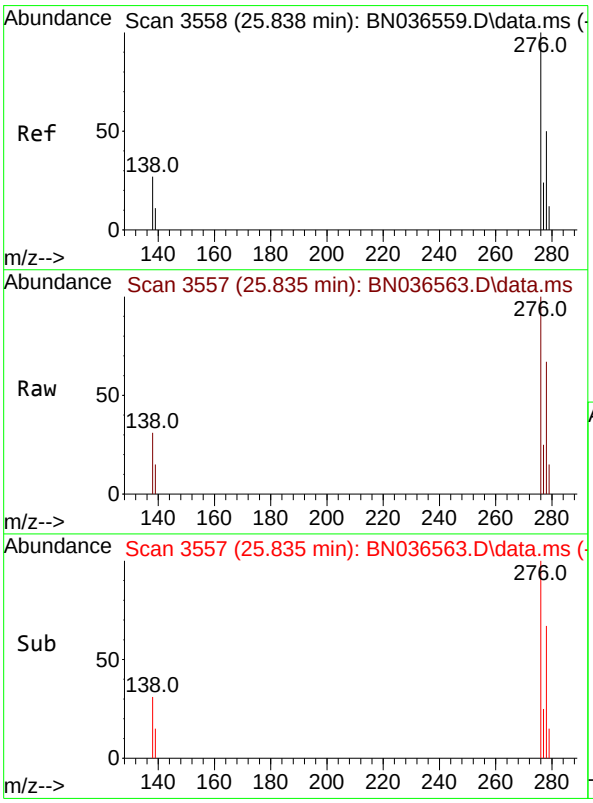
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

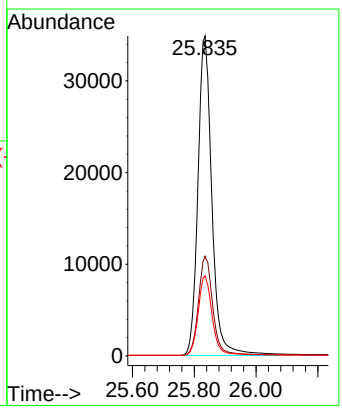


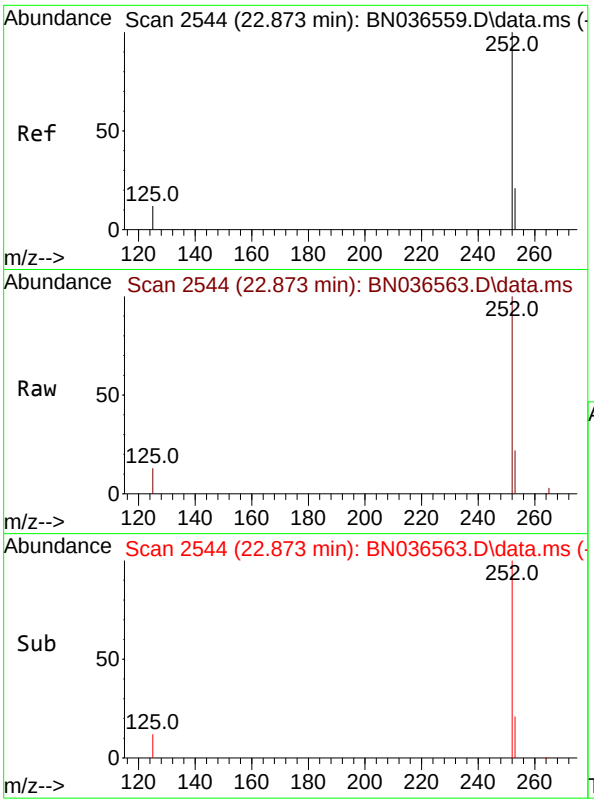


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.440 ng
RT: 25.835 min Scan# 3557
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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



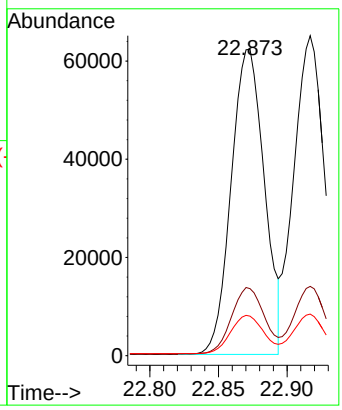


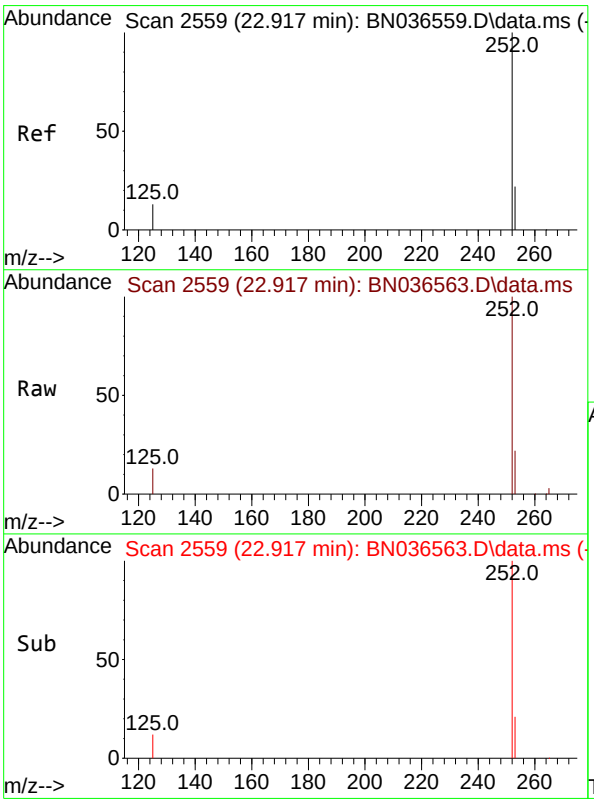
#37
Benzo(b)fluoranthene
Concen: 5.146 ng
RT: 22.873 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

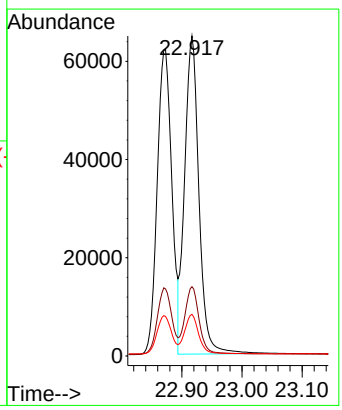


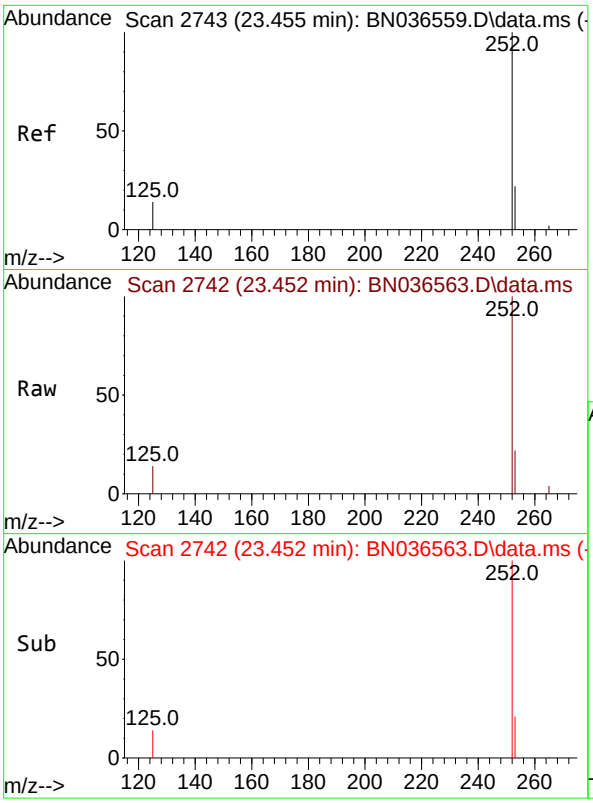


#38
Benzo(k)fluoranthene
Concen: 5.022 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#



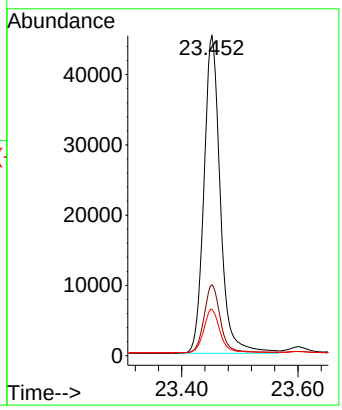


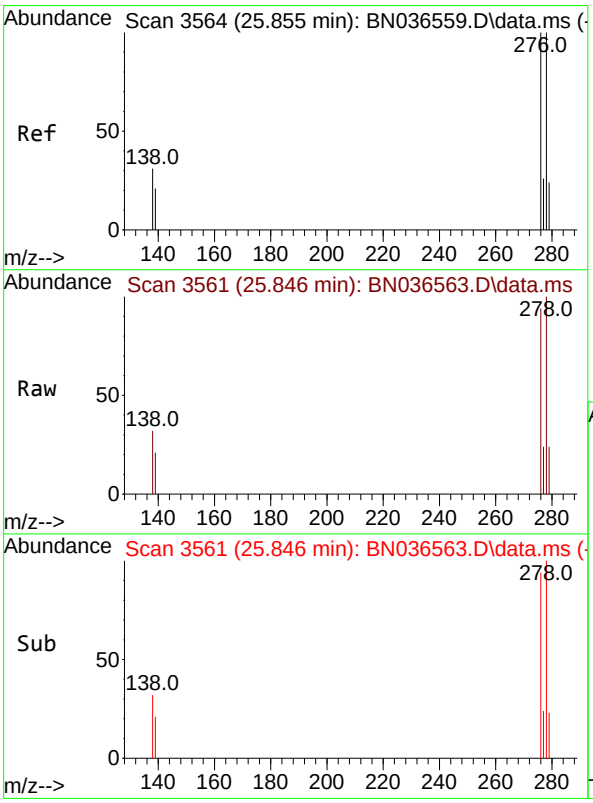
#39
Benzo(a)pyrene
Concen: 5.170 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#

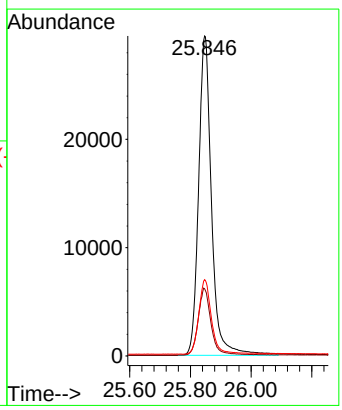


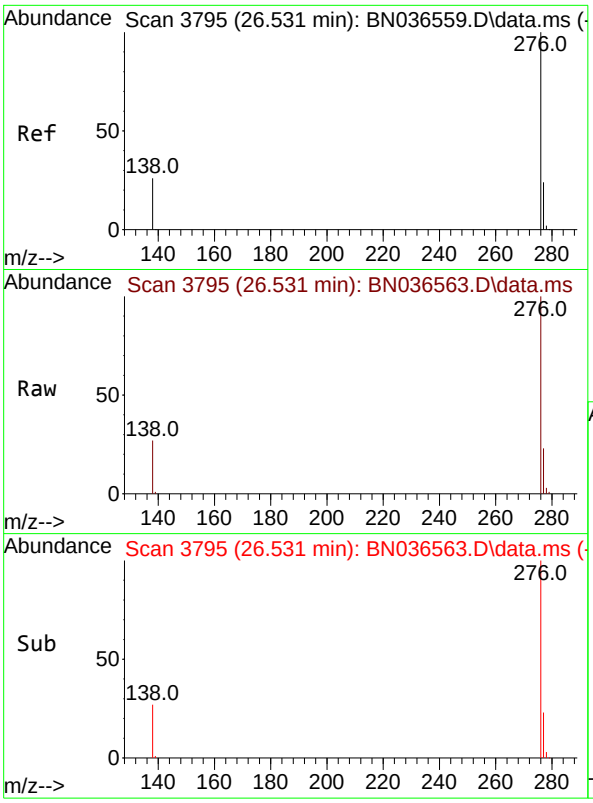


#40
Dibenzo(a,h)anthracene
Concen: 5.568 ng
RT: 25.846 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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#



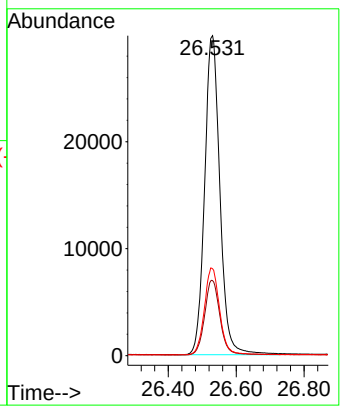


#41
Benzo(g,h,i)perylene
Concen: 5.189 ng
RT: 26.531 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

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

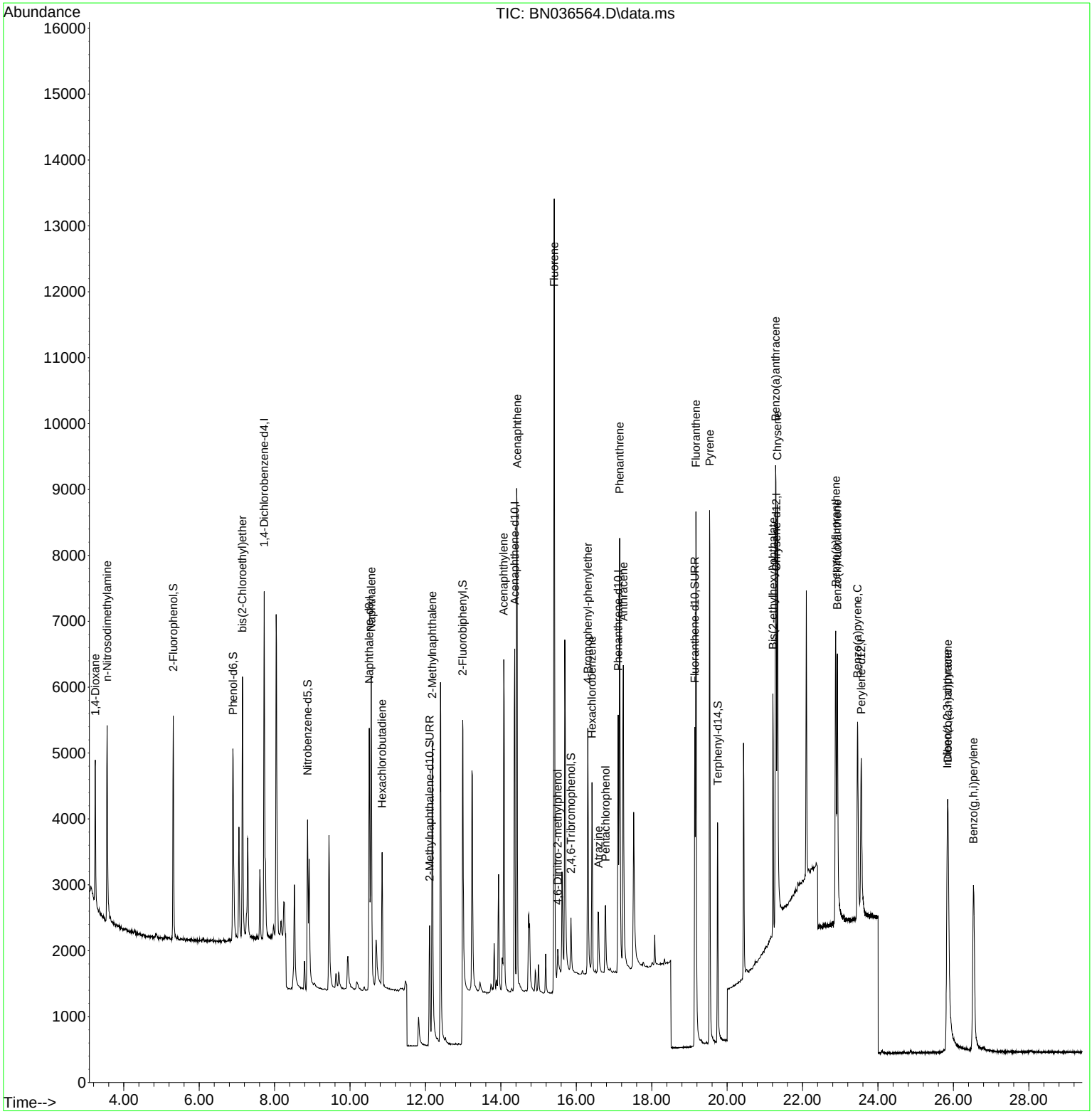
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng		0.00
29) Chrysene-d12	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

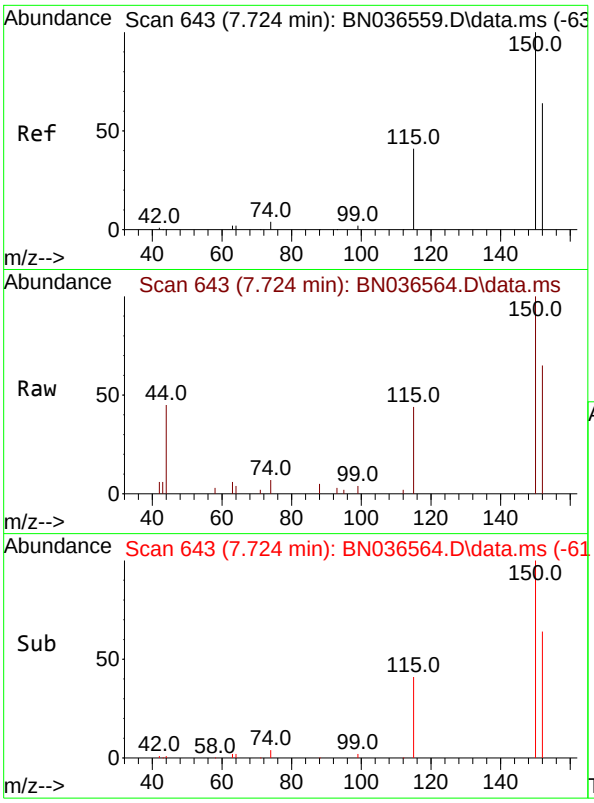
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



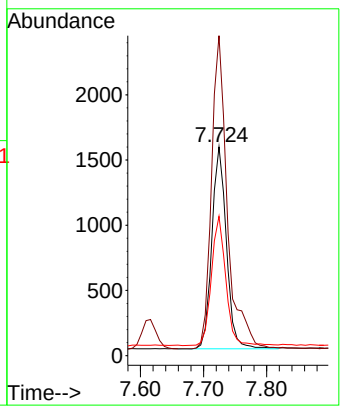


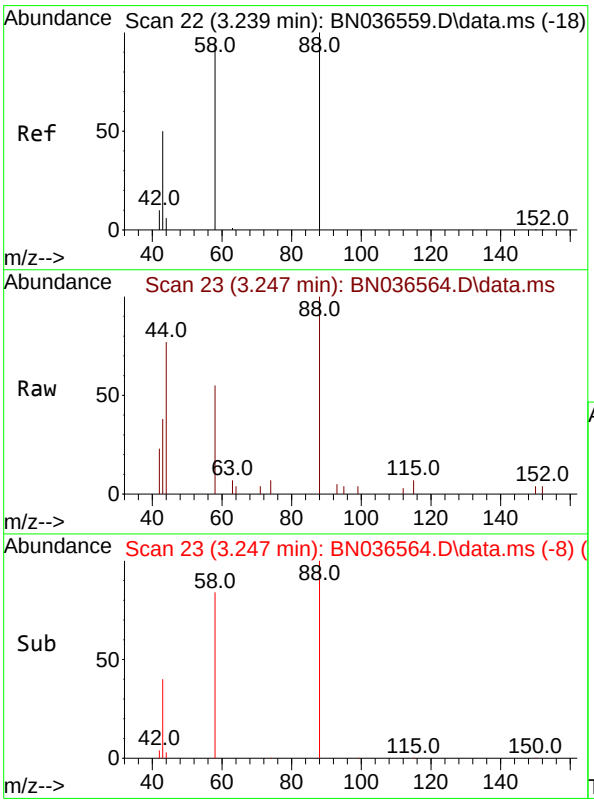
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

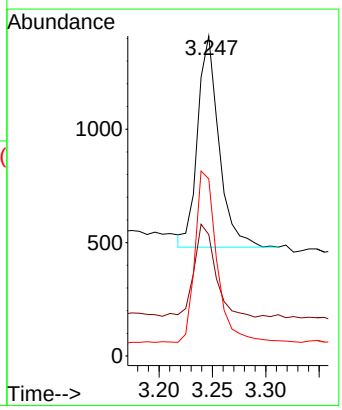


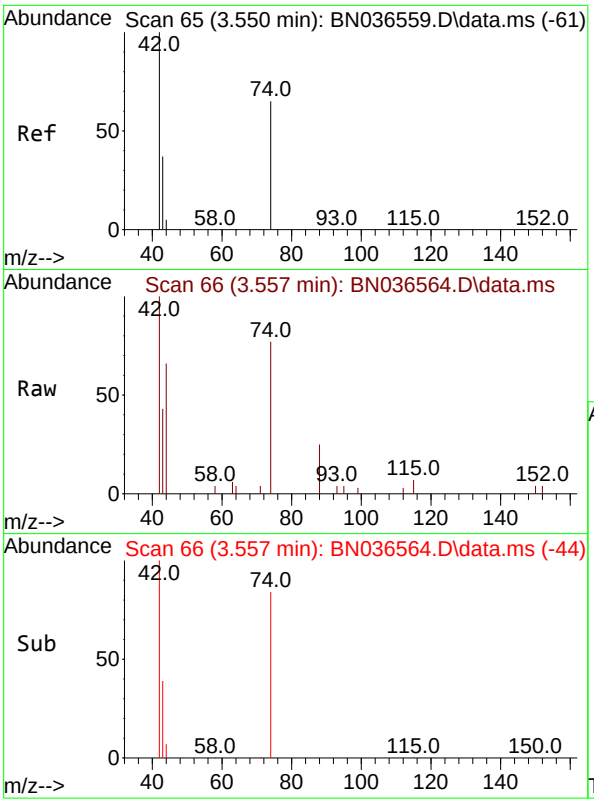


#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



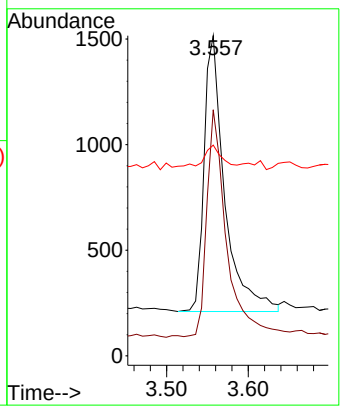


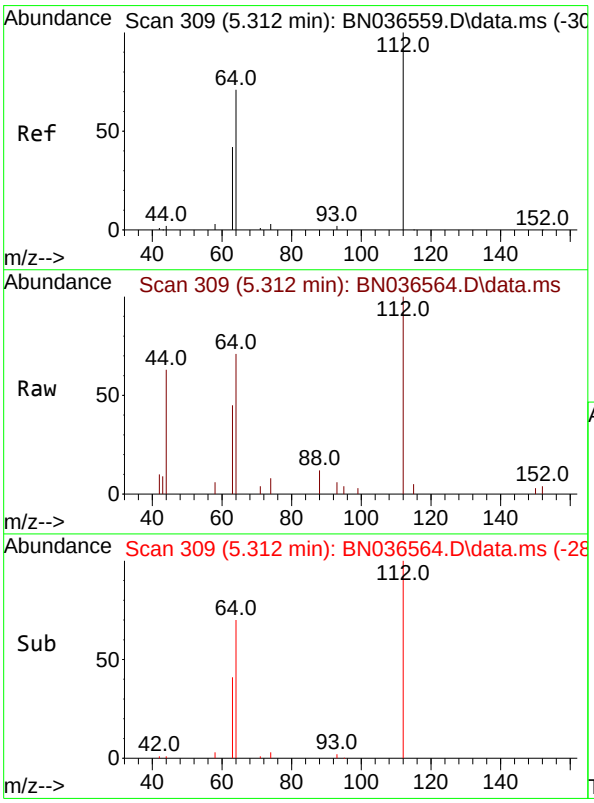
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

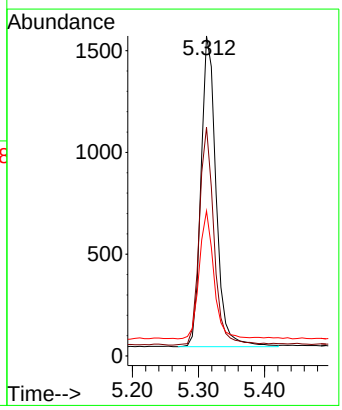


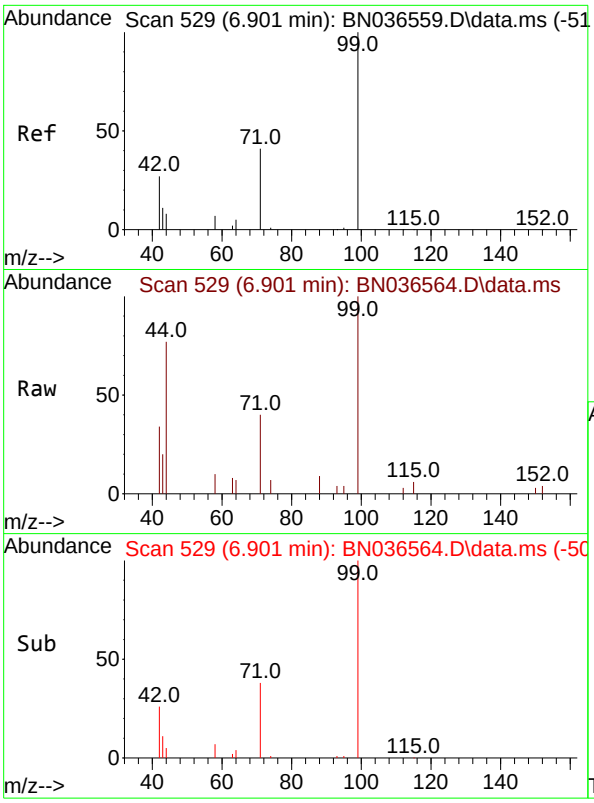


#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



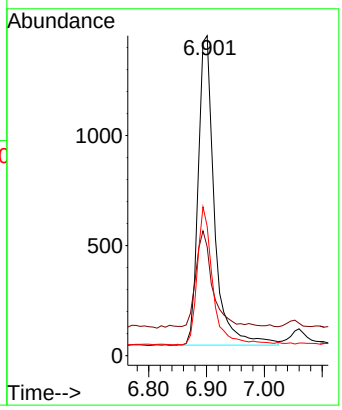


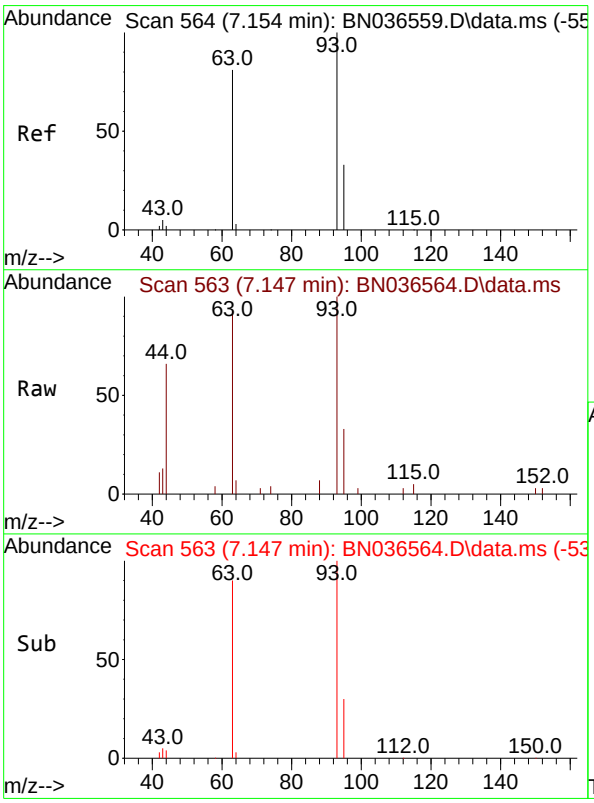
#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

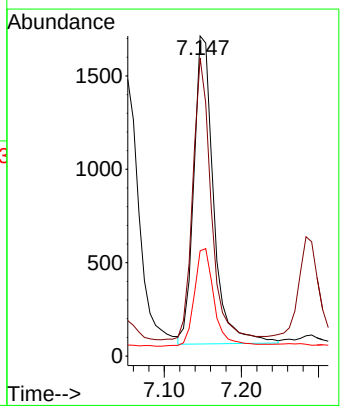


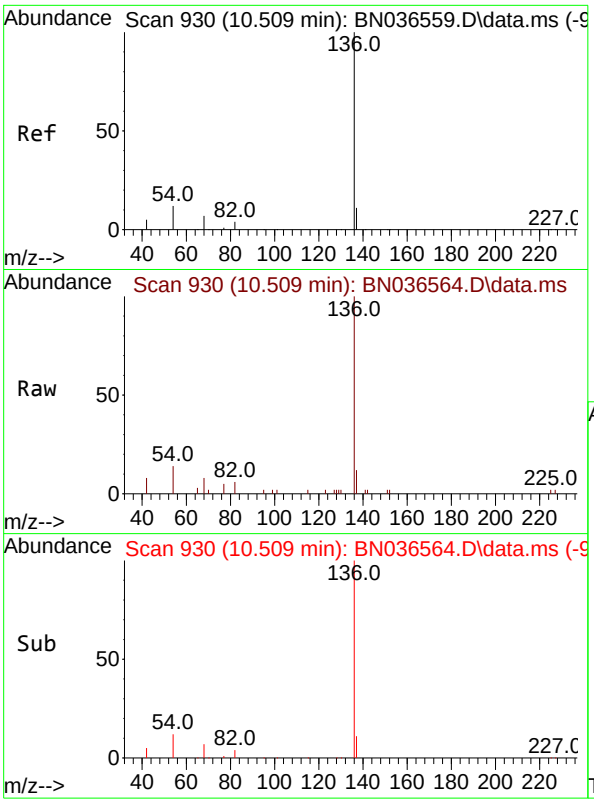


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



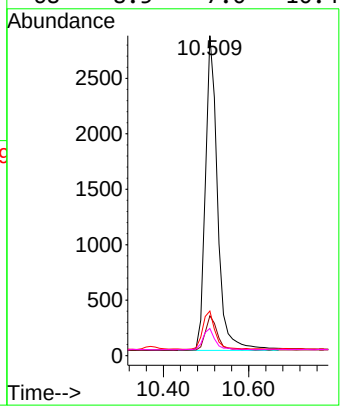


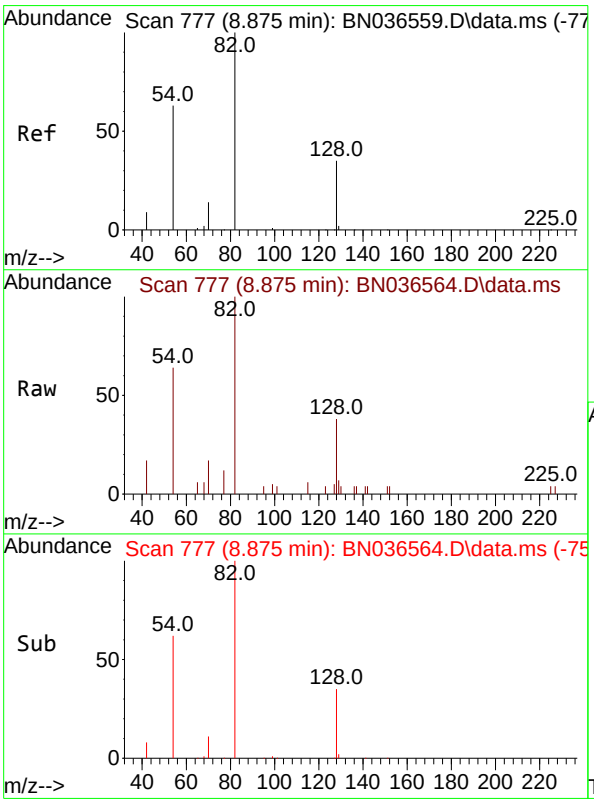
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

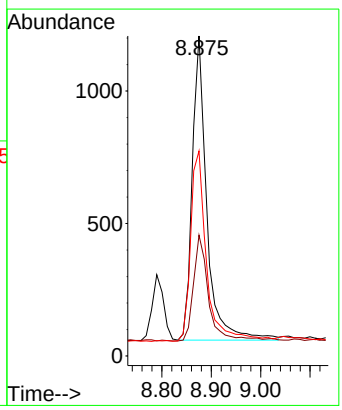


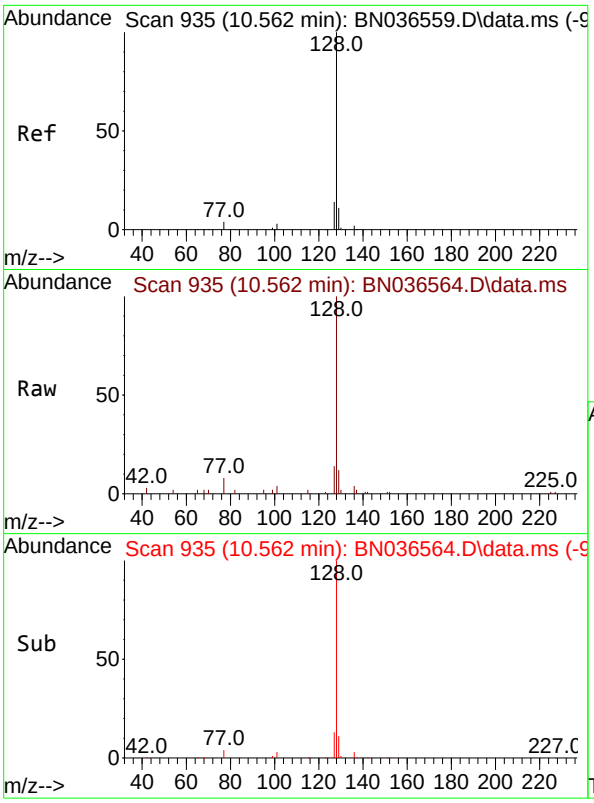


#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



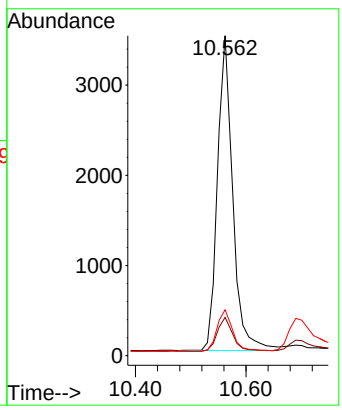


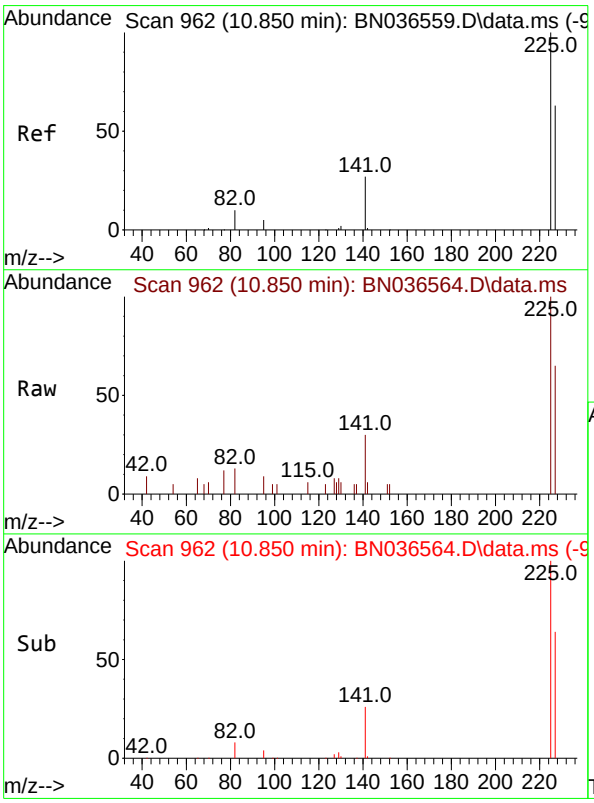
#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

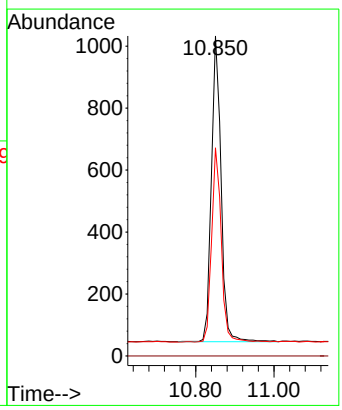


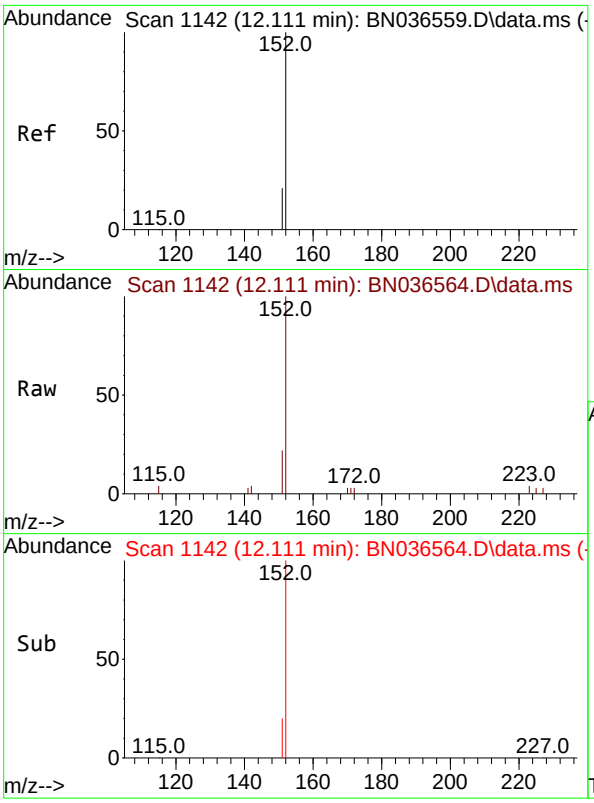


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



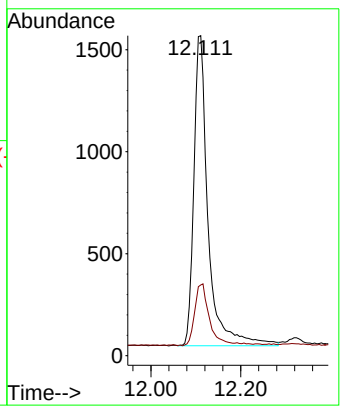


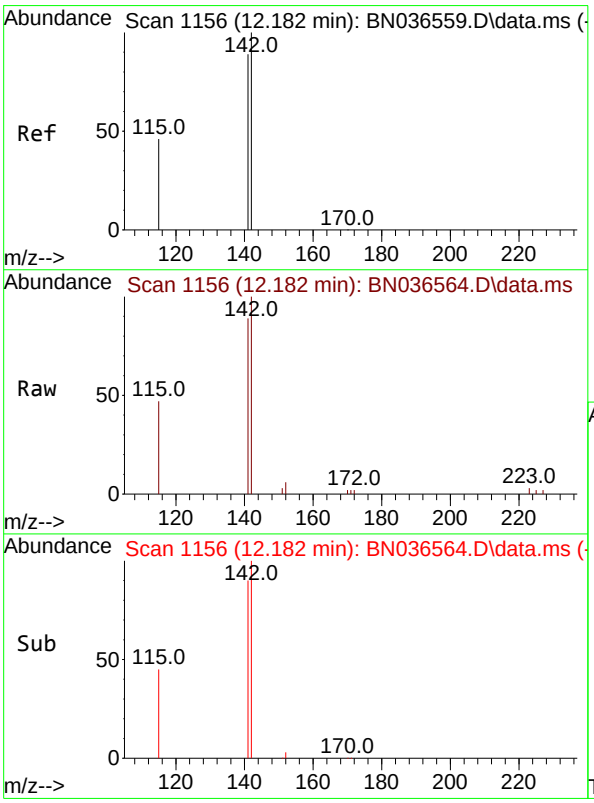
#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:152 Resp: 3345

Ion	Ratio	Lower	Upper
152	100		
151	20.2	17.0	25.6

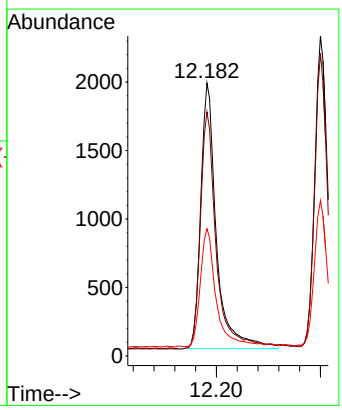


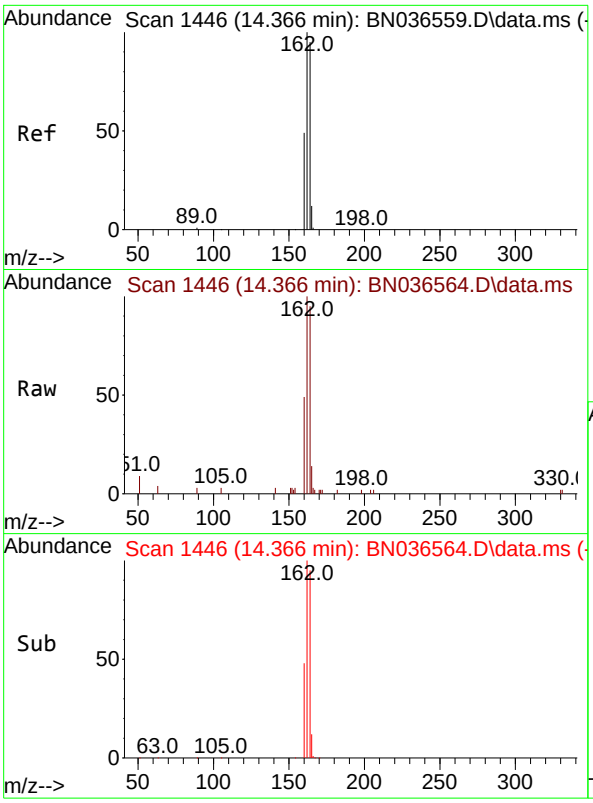


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



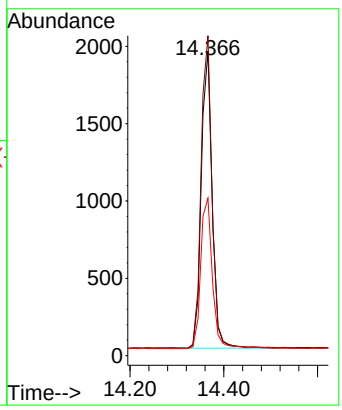


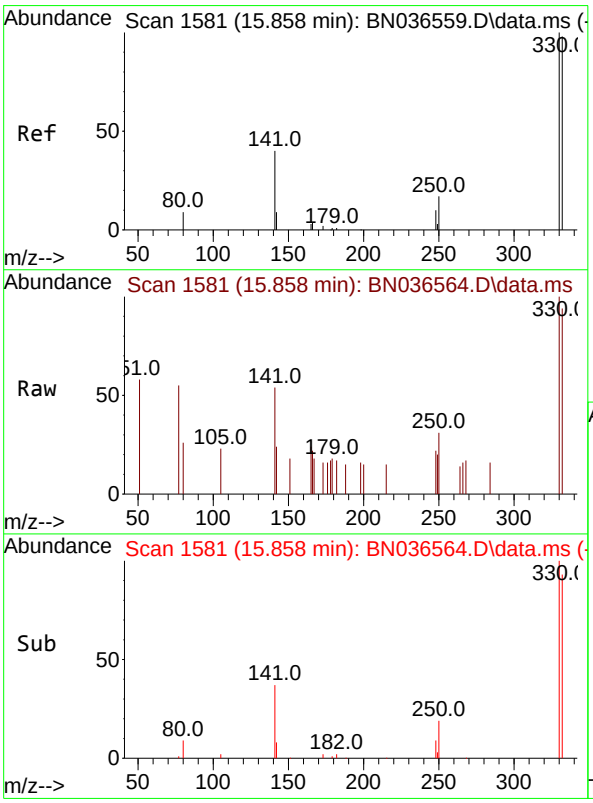
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

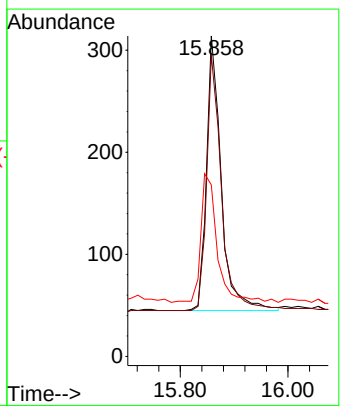


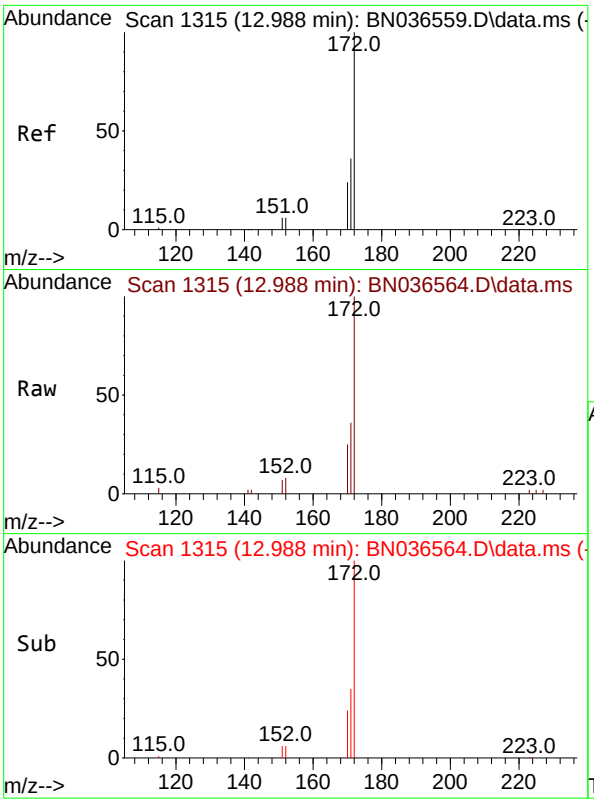


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



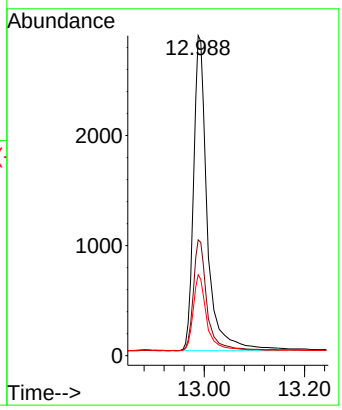


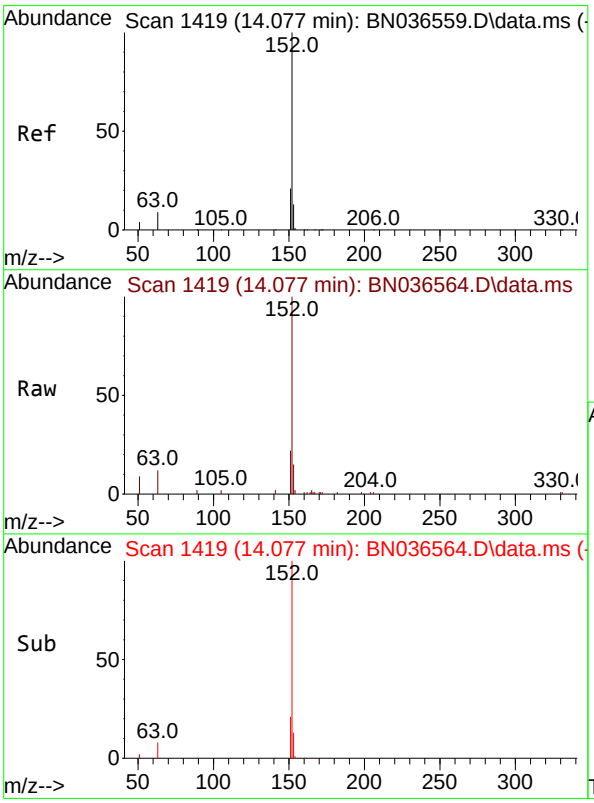
#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

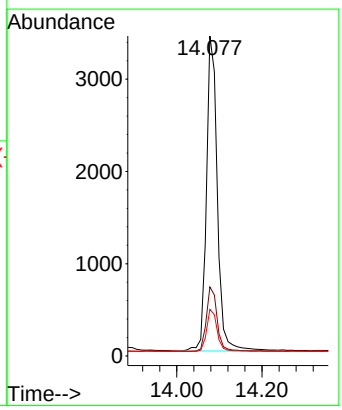


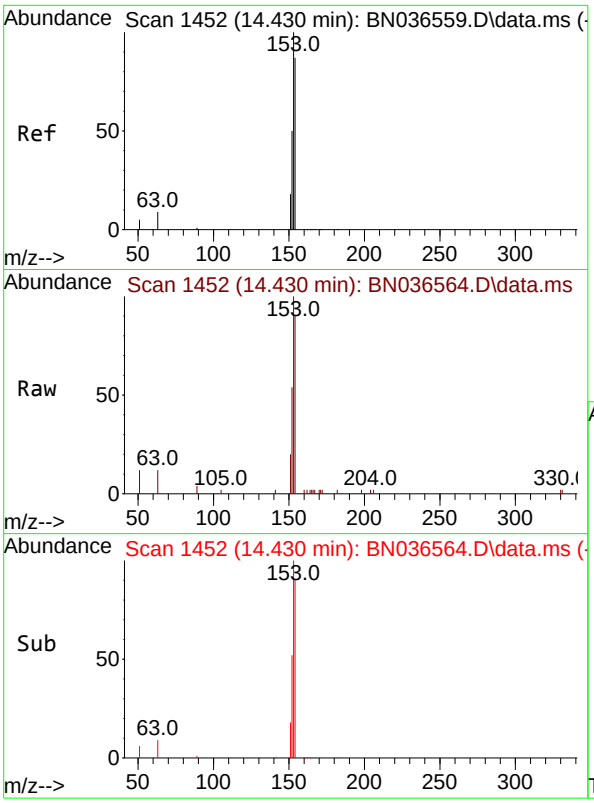


#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.077 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



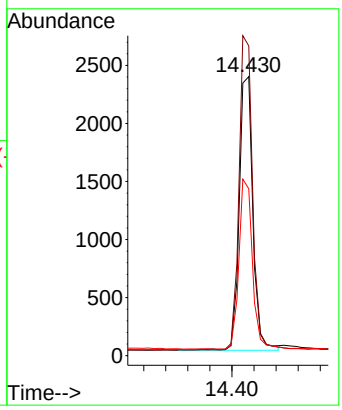


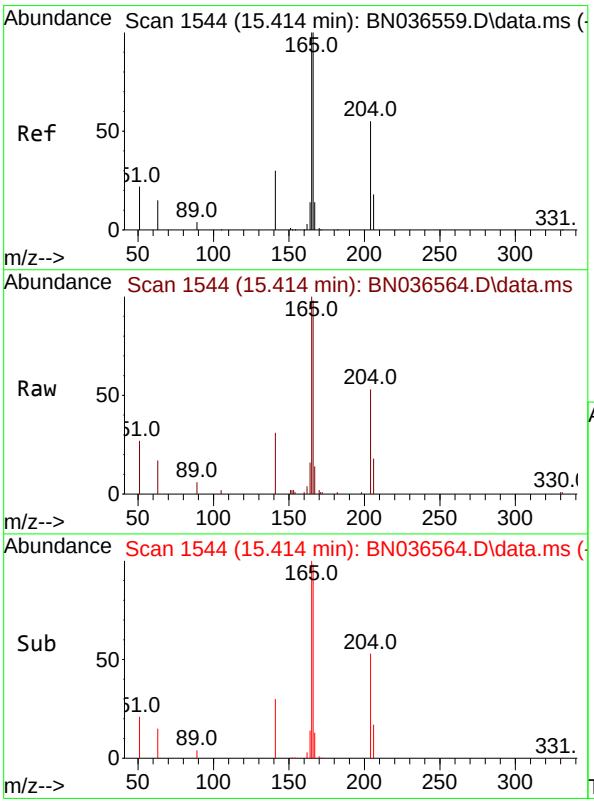
#17
Acenaphthene
Concen: 0.423 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

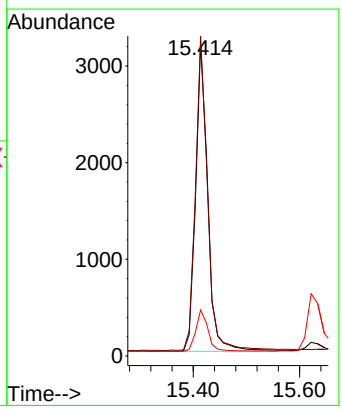


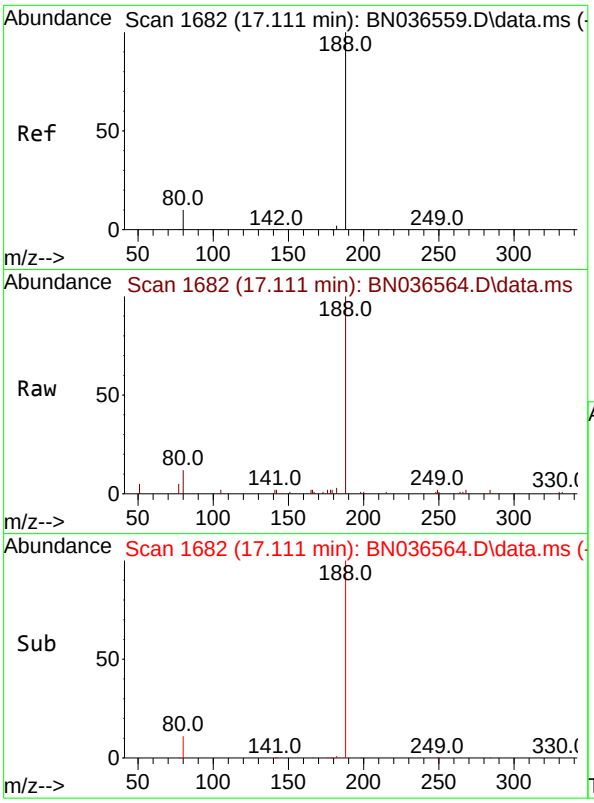


#18
Fluorene
Concen: 0.405 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



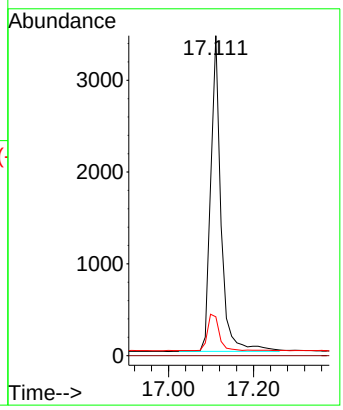


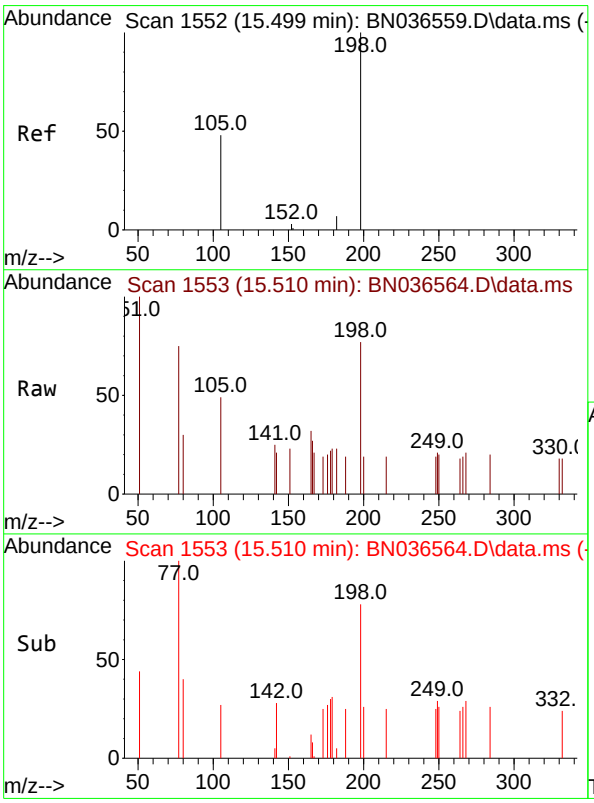
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

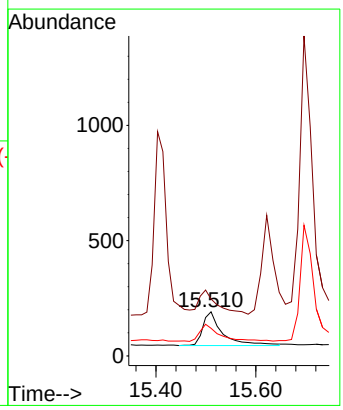


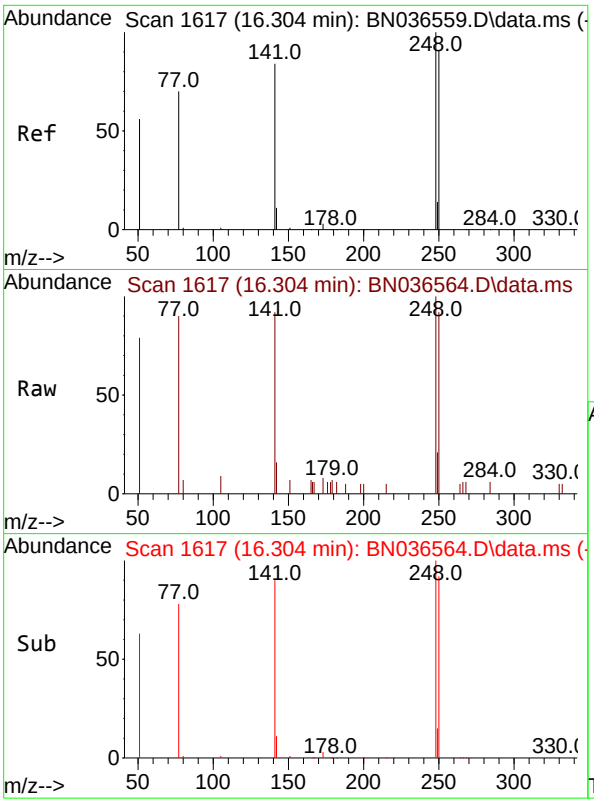


#20
4,6-Dinitro-2-methylphenol
Concen: 0.420 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



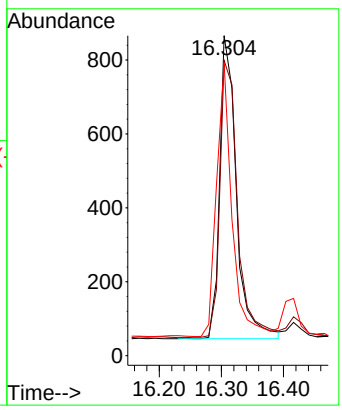


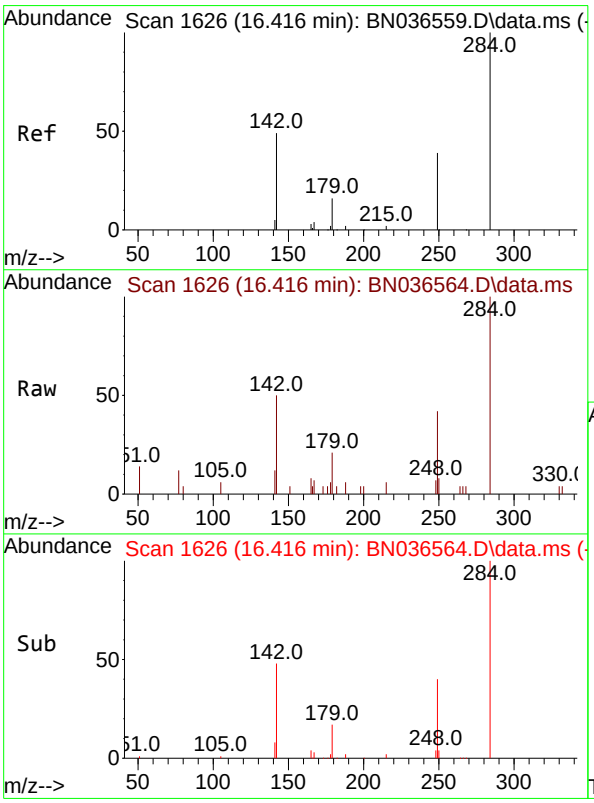
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

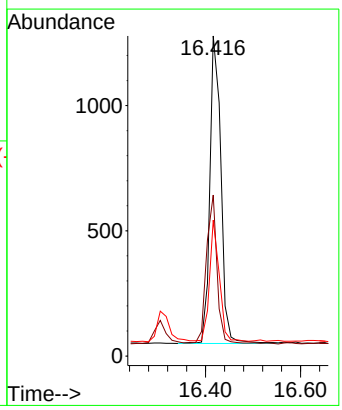


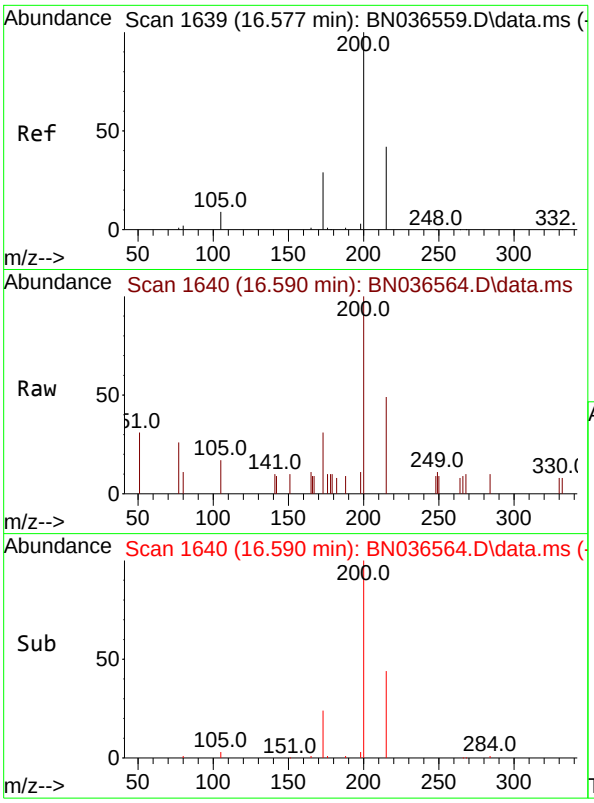


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



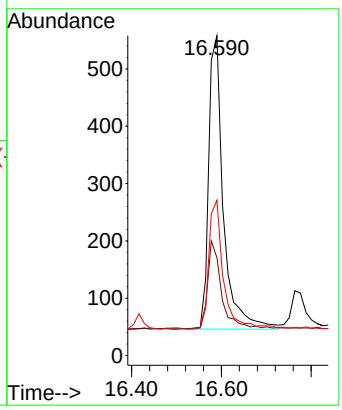


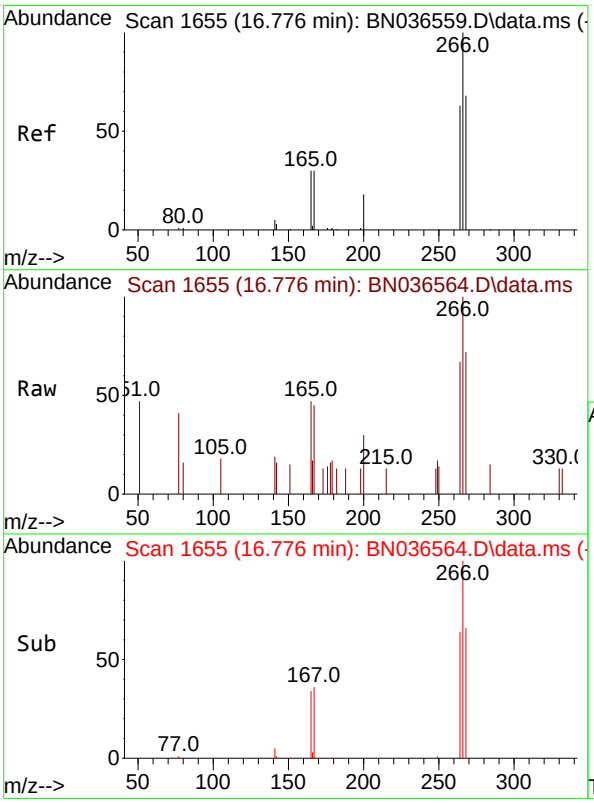
#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

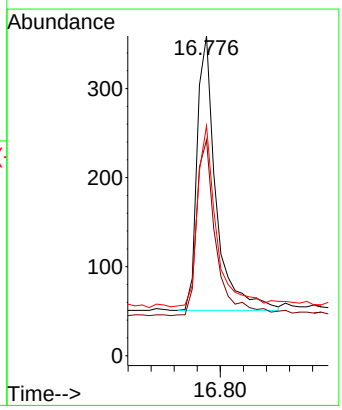


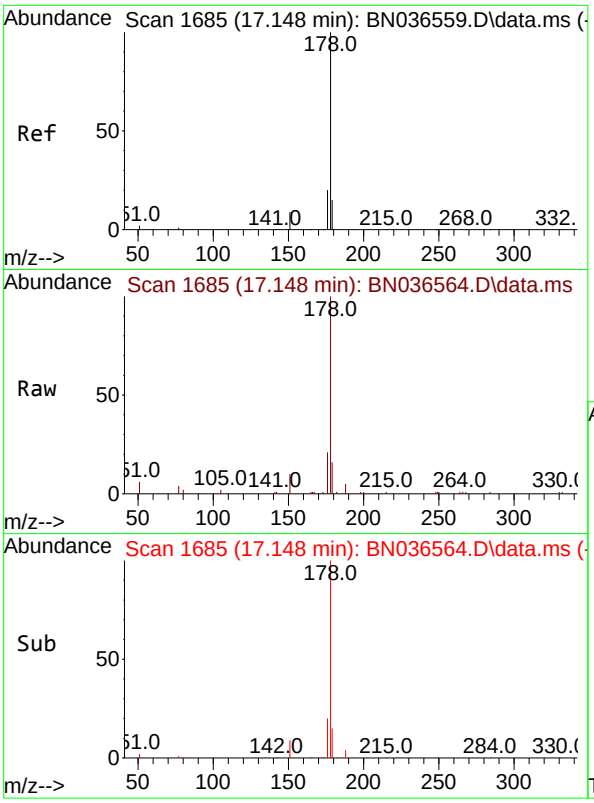


#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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



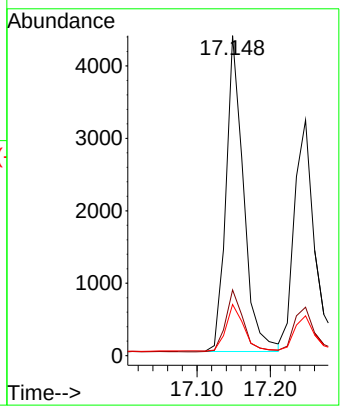


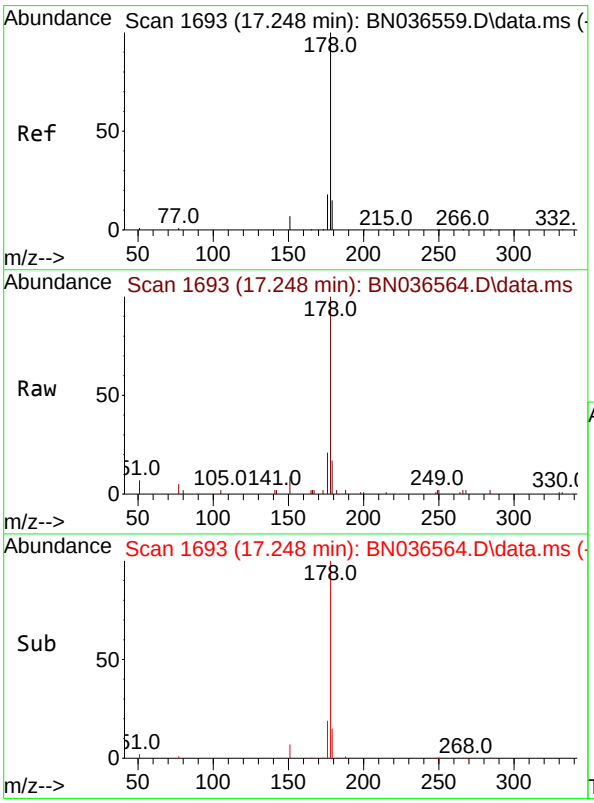
#25
Phenanthrene
Concen: 0.417 ng
RT: 17.148 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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

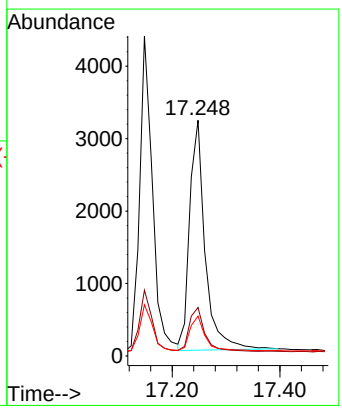


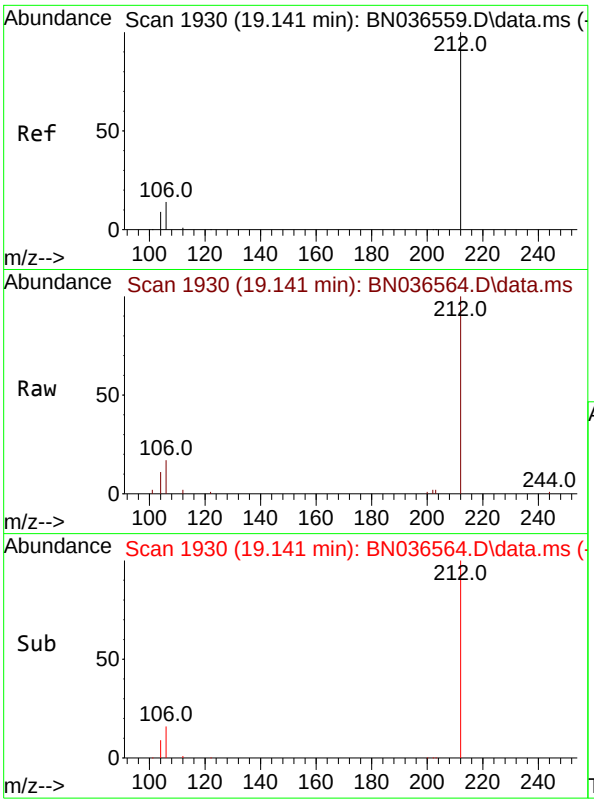


#26
Anthracene
Concen: 0.407 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

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





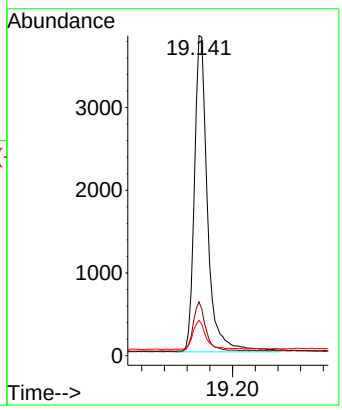
#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.141 min Scan# 1

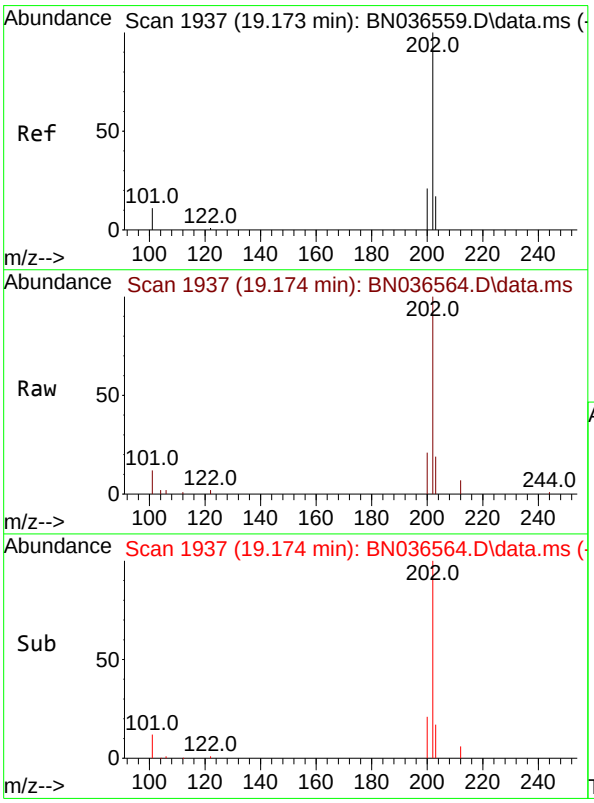
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:212 Resp: 6152

Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.8	17.6
104	8.8	7.3	10.9

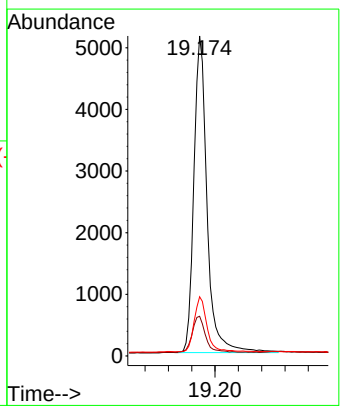


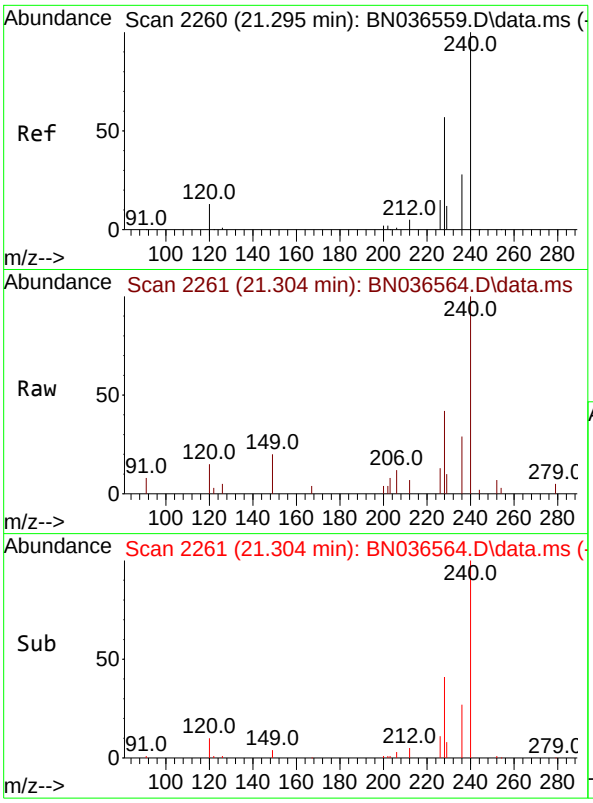


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8068

Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.4	14.0
203	16.8	13.5	20.3



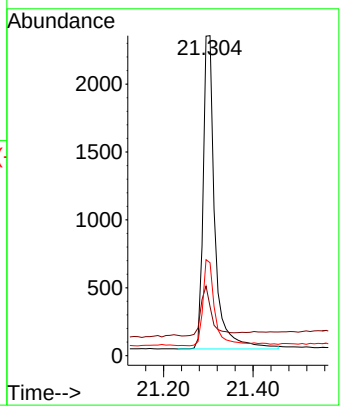


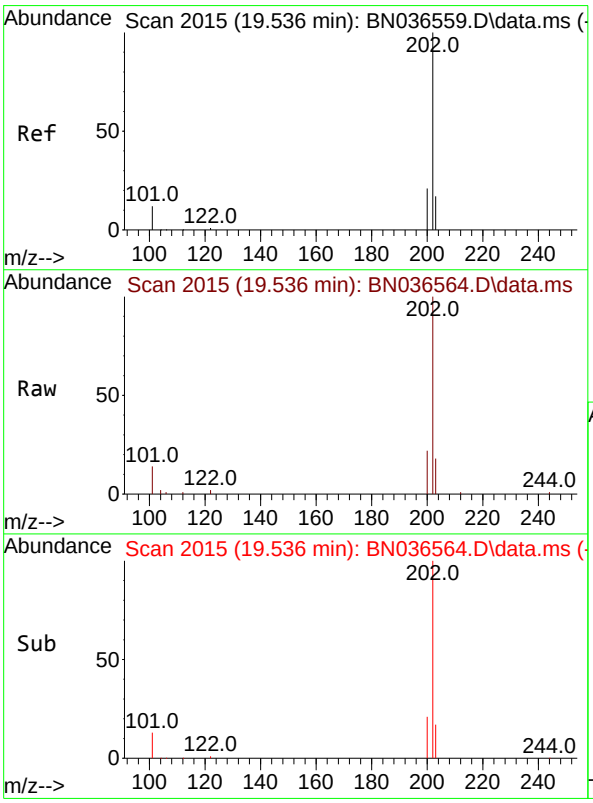
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:240 Resp: 4219

Ion	Ratio	Lower	Upper
240	100		
120	15.4	14.6	22.0
236	29.1	24.1	36.1

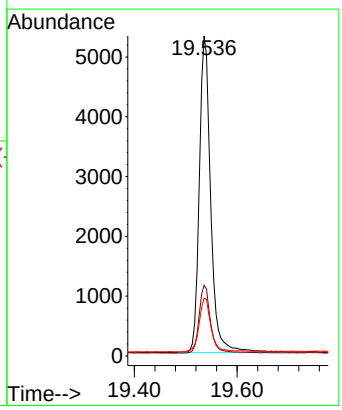


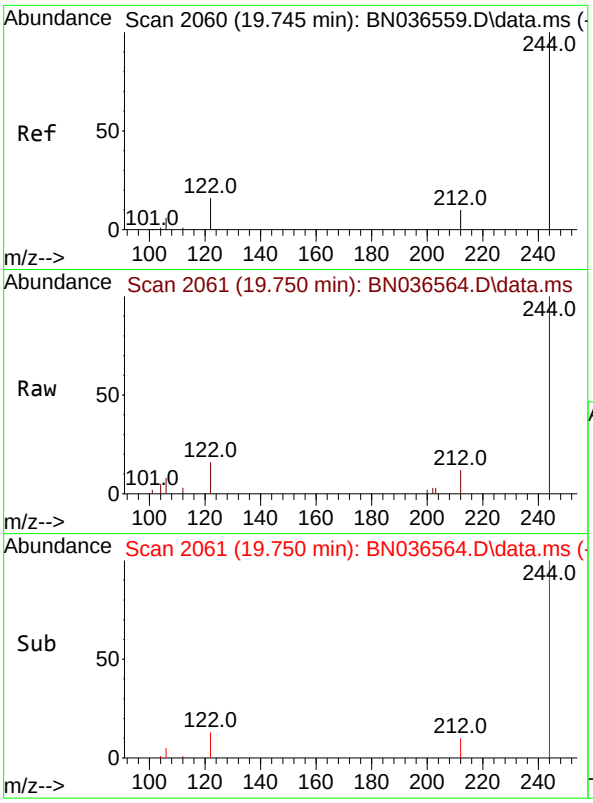


#30
Pyrene
Concen: 0.395 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:202 Resp: 8156

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.4	14.1	21.1



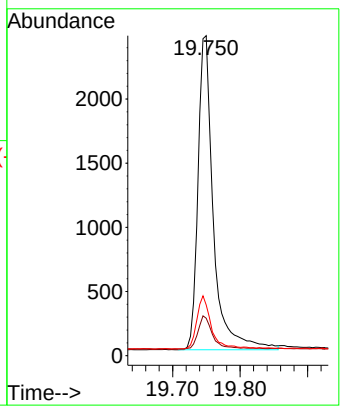


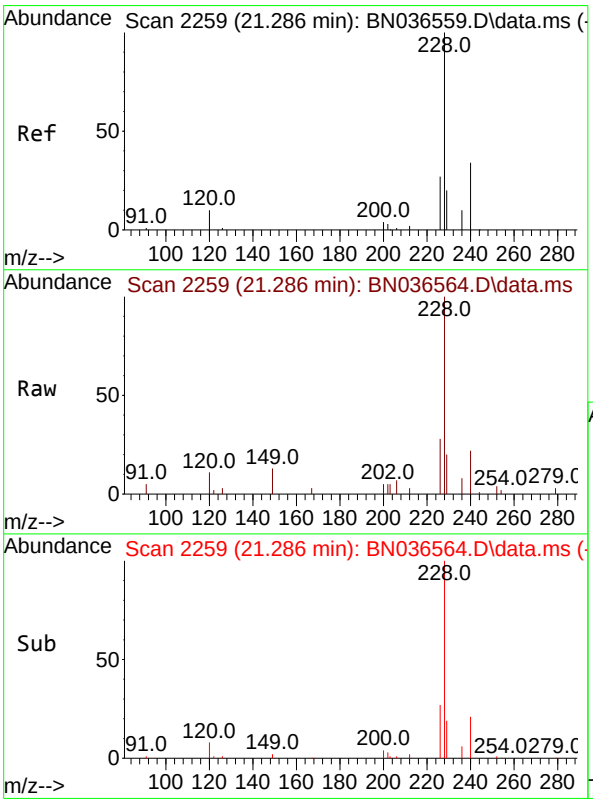
#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.750 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:244 Resp: 3880

Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	15.8	13.9	20.9

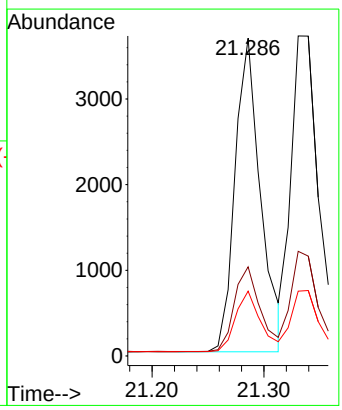


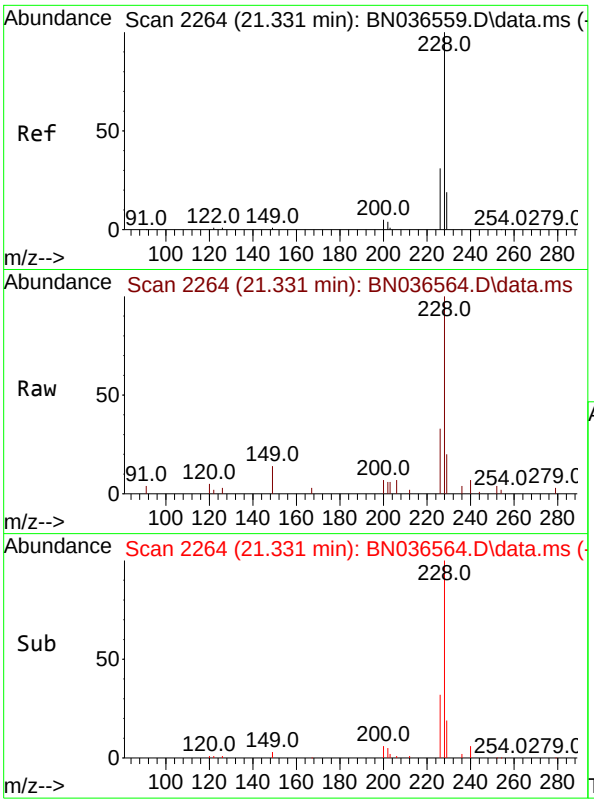


#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:228 Resp: 5814

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.4	16.6	25.0



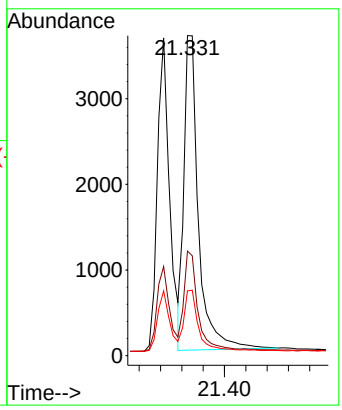


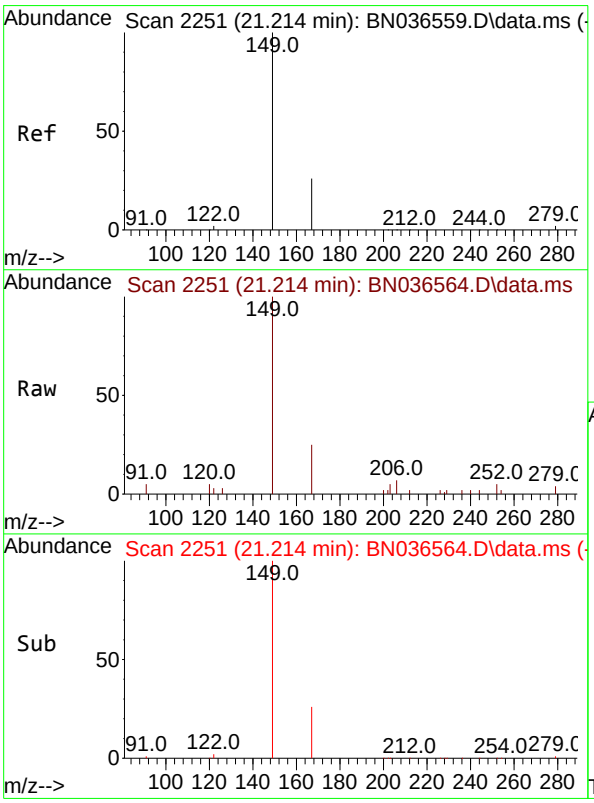
#33
Chrysene
Concen: 0.433 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:228 Resp: 6940

Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.3	37.9
229	20.3	15.8	23.8

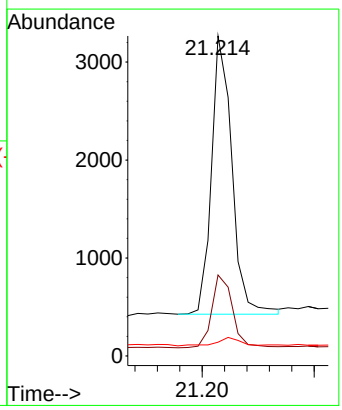


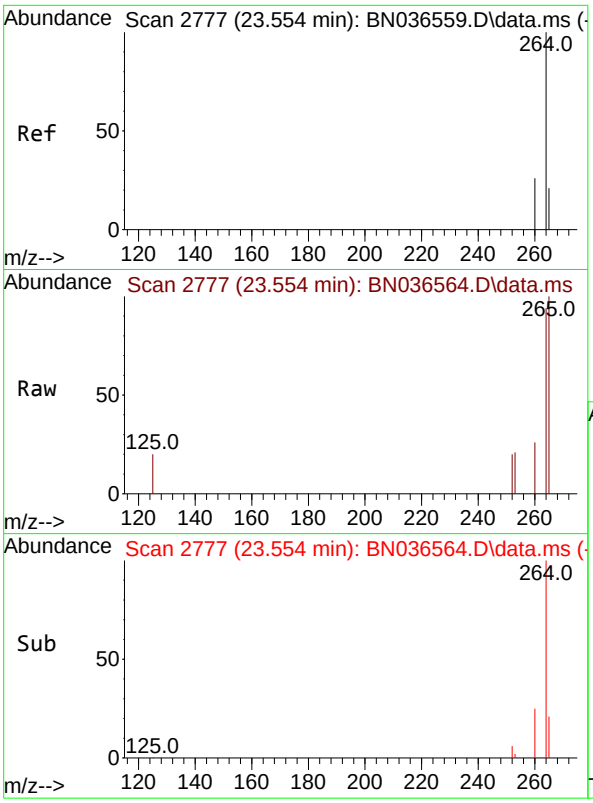


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.344 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:149 Resp: 3594

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.7	3.6	5.4



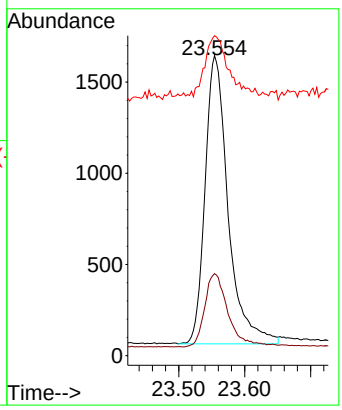


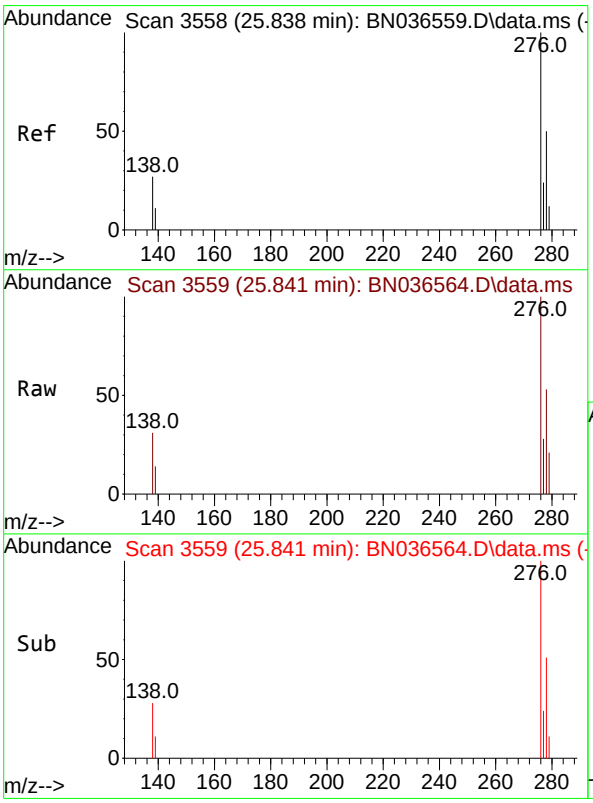
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:264 Resp: 3835

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	106.6	88.1	132.1

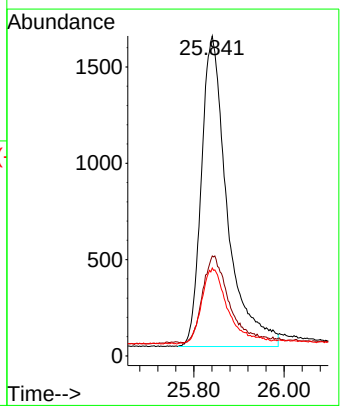


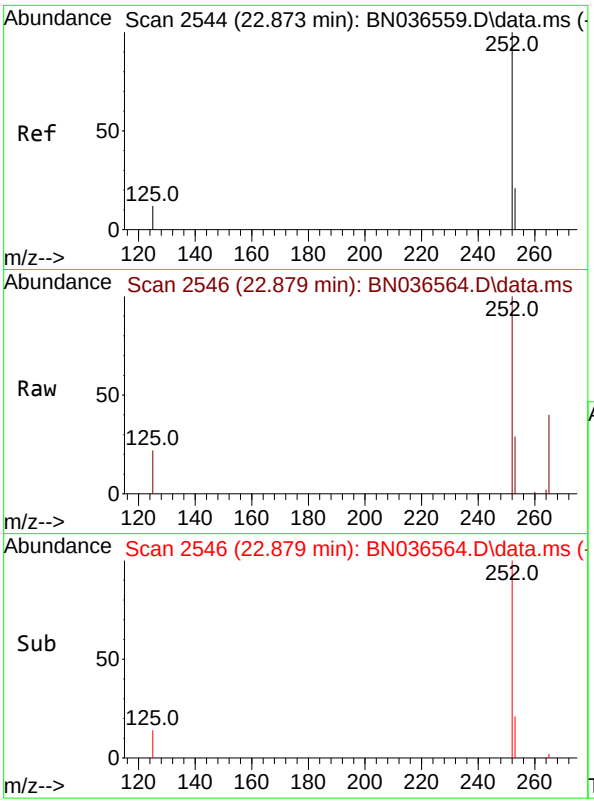


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.463 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:276 Resp: 6410

Ion	Ratio	Lower	Upper
276	100		
138	28.1	23.4	35.2
277	24.5	20.0	30.0



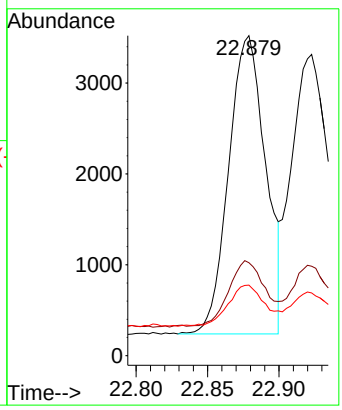


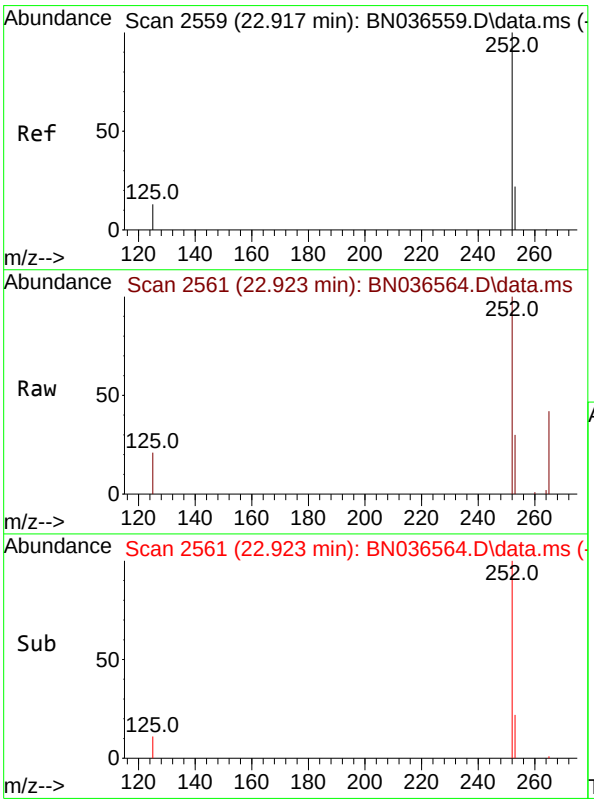
#37
Benzo(b)fluoranthene
Concen: 0.423 ng
RT: 22.879 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:252 Resp: 5902

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	22.1	17.4	26.2

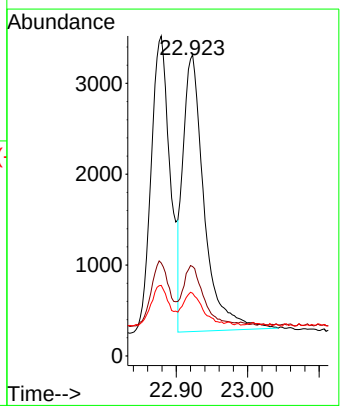


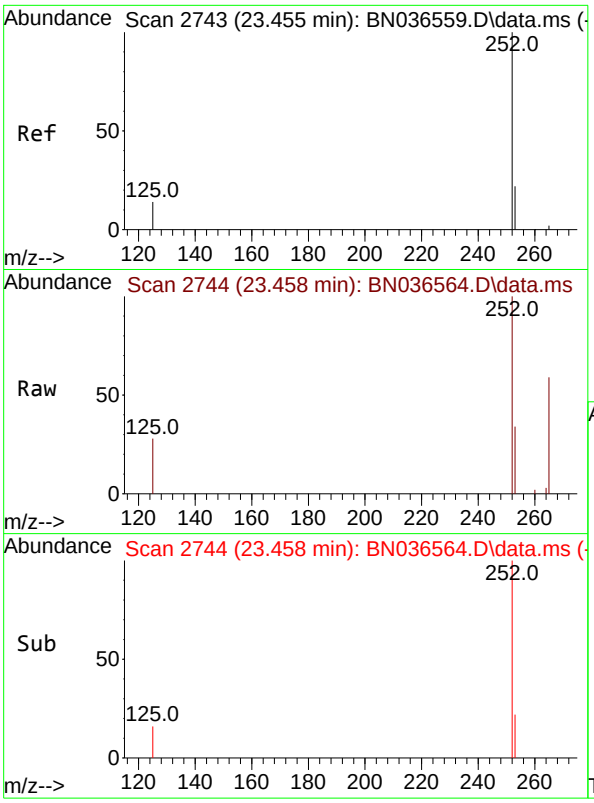


#38
Benzo(k)fluoranthene
Concen: 0.429 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:252 Resp: 6286

Ion	Ratio	Lower	Upper
252	100		
253	29.7	24.6	36.8
125	20.8	17.8	26.8



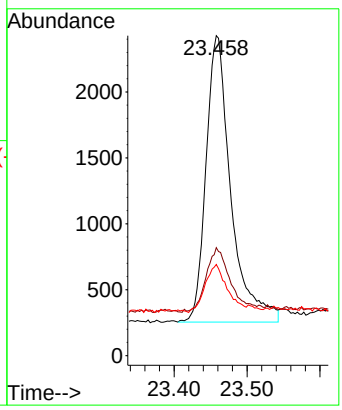


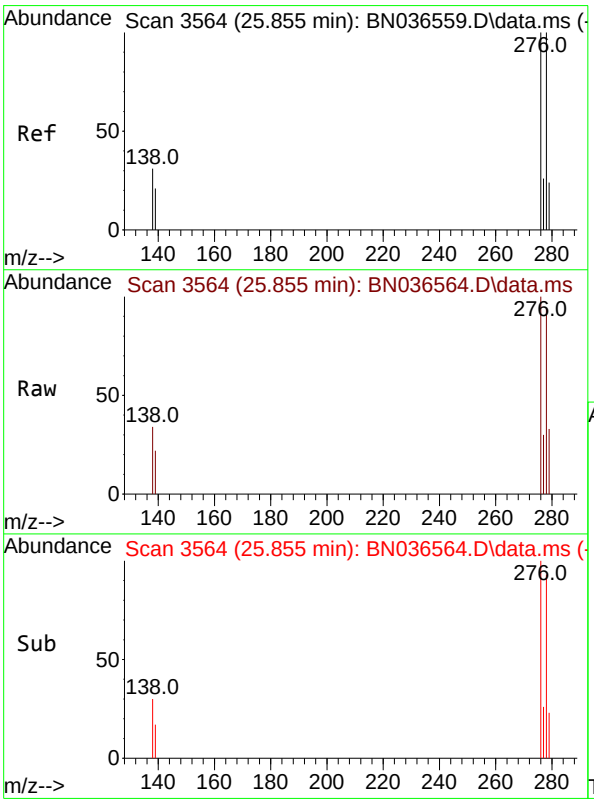
#39
Benzo(a)pyrene
Concen: 0.438 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:252 Resp: 5147

Ion	Ratio	Lower	Upper
252	100		
253	33.7	27.8	41.8
125	28.5	22.7	34.1

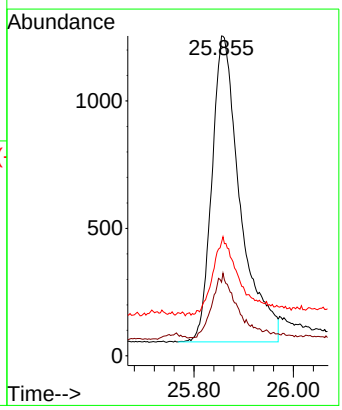


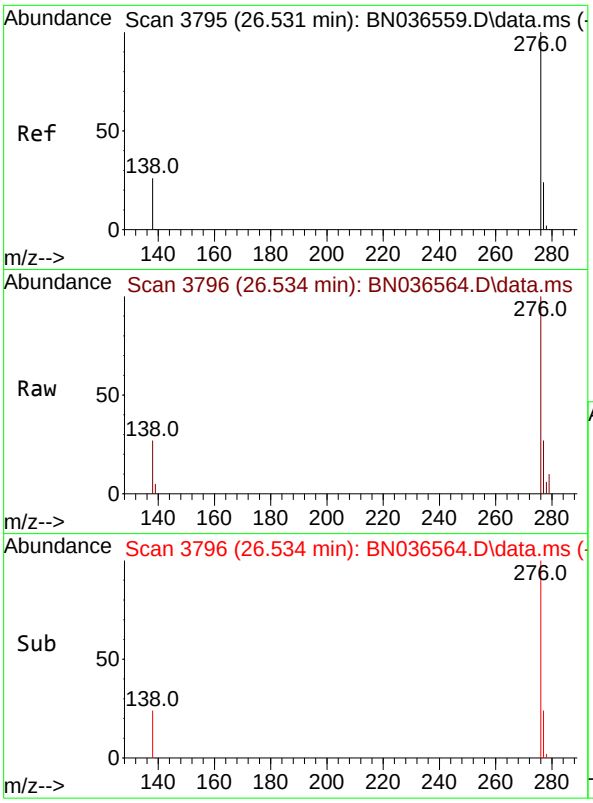


#40
Dibenzo(a,h)anthracene
Concen: 0.440 ng
RT: 25.855 min Scan# 3564
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:278 Resp: 4740

Ion	Ratio	Lower	Upper
278	100		
139	23.0	20.8	31.2
279	35.5	28.8	43.2



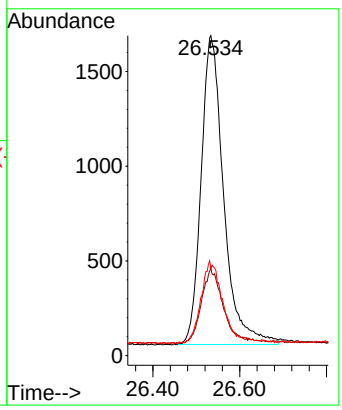


#41
Benzo(g,h,i)perylene
Concen: 0.477 ng
RT: 26.534 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Tgt Ion:276 Resp: 5877

Ion	Ratio	Lower	Upper
276	100		
277	27.2	22.2	33.4
138	27.2	24.1	36.1



Evaluate Continuing Calibration Report

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

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00
2		1,4-Dioxane	0.444	0.521	-17.3	118	0.00
3		n-Nitrosodimethylamine	0.898	0.918	-2.2	111	0.00
4	S	2-Fluorophenol	0.932	0.972	-4.3	111	0.00
5	S	Phenol-d6	1.152	1.103	4.3	110	0.00
6		bis(2-Chloroethyl)ether	1.190	1.184	0.5	113	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8	S	Nitrobenzene-d5	0.435	0.418	3.9	112	0.00
9		Naphthalene	1.177	1.191	-1.2	109	0.00
10		Hexachlorobutadiene	0.277	0.301	-8.7	113	0.00
11	SURR	2-Methylnaphthalene-d10	0.595	0.594	0.2	108	0.00
12		2-Methylnaphthalene	0.749	0.721	3.7	104	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14	S	2,4,6-Tribromophenol	0.182	0.166	8.8	90	0.00
15	S	2-Fluorobiphenyl	2.327	2.513	-8.0	107	0.00
16		Acenaphthylene	1.888	1.964	-4.0	103	0.00
17		Acenaphthene	1.236	1.308	-5.8	104	0.00
18		Fluorene	1.672	1.694	-1.3	98	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20		4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	87	0.01
21		4-Bromophenyl-phenylether	0.251	0.264	-5.2	93	0.00
22		Hexachlorobenzene	0.303	0.344	-13.5	98	0.00
23		Atrazine	0.201	0.202	-0.5	91	0.01
24		Pentachlorophenol	0.138	0.121	12.3	85	0.00
25		Phenanthrene	1.200	1.251	-4.2	93	0.00
26		Anthracene	1.083	1.100	-1.6	92	0.00
27	SURR	Fluoranthene-d10	1.025	1.065	-3.9	92	0.00
28		Fluoranthene	1.348	1.396	-3.6	93	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30		Pyrene	1.956	1.933	1.2	93	0.00
31	S	Terphenyl-d14	0.958	0.920	4.0	92	0.00
32		Benzo(a)anthracene	1.391	1.378	0.9	98	0.00
33		Chrysene	1.520	1.645	-8.2	105	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.852	13.9	84	0.00
35	I	Perylene-d12	1.000	1.000	0.0	108	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.671	-15.7	117	0.00
37		Benzo(b)fluoranthene	1.456	1.539	-5.7	108	0.00
38		Benzo(k)fluoranthene	1.527	1.639	-7.3	110	0.00
39	C	Benzo(a)pyrene	1.226	1.342	-9.5	112	0.00
40		Dibenzo(a,h)anthracene	1.124	1.236	-10.0	115	0.00
41		Benzo(g,h,i)perylene	1.286	1.532	-19.1	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 09:49

Lab File ID: BN036651.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.593		-0.3	20.0
Fluoranthene-d10	1.025	1.098		7.1	20.0
2-Fluorophenol	0.932	0.906		-2.8	20.0
Phenol-d6	1.152	1.101		-4.4	20.0
Nitrobenzene-d5	0.435	0.424		-2.5	20.0
2-Fluorobiphenyl	2.327	2.428		4.3	20.0
2,4,6-Tribromophenol	0.182	0.165		-9.3	20.0
Terphenyl-d14	0.958	1.008		5.2	20.0
1,4-Dioxane	0.444	0.497		11.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036651.D
Acq On : 17 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 17 12:11:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

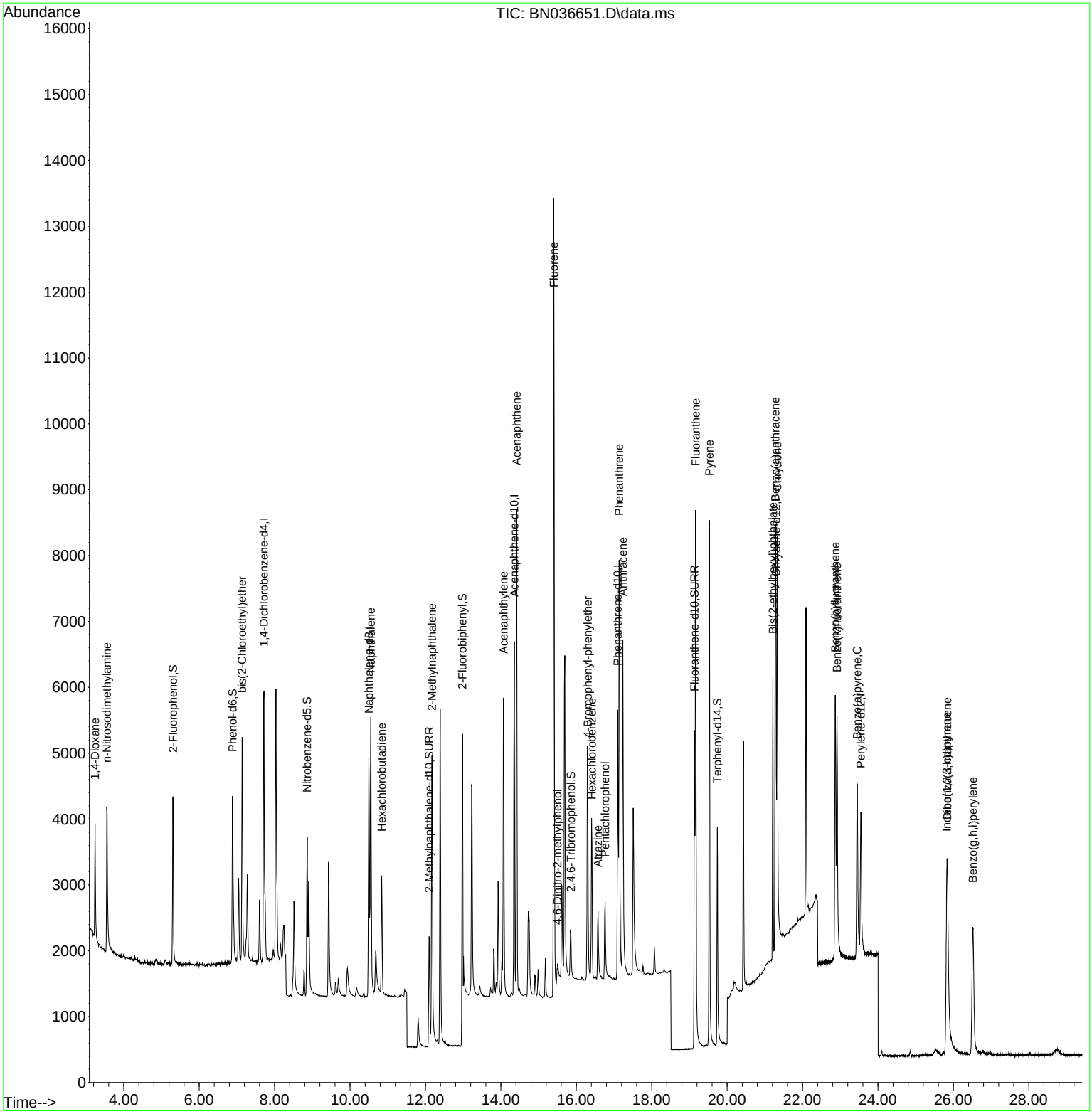
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	2063	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	5025	0.400	ng		-0.01
13) Acenaphthene-d10	14.356	164	2968	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	5703	0.400	ng		#-0.01
29) Chrysene-d12	21.295	240	3893	0.400	ng		# 0.00
35) Perylene-d12	23.546	264	3363	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	1870	0.389	ng		0.00
5) Phenol-d6	6.887	99	2271	0.382	ng		-0.01
8) Nitrobenzene-d5	8.865	82	2131	0.390	ng		-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2982	0.399	ng		-0.02
14) 2,4,6-Tribromophenol	15.858	330	489	0.363	ng		0.00
15) 2-Fluorobiphenyl	12.978	172	7207	0.417	ng		0.00
27) Fluoranthene-d10	19.136	212	6261	0.428	ng		0.00
31) Terphenyl-d14	19.740	244	3924	0.421	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	1026	0.448	ng		99
3) n-Nitrosodimethylamine	3.550	42	2035	0.440	ng	#	95
6) bis(2-Chloroethyl)ether	7.139	93	2441	0.398	ng		99
9) Naphthalene	10.552	128	6028	0.408	ng		100
10) Hexachlorobutadiene	10.840	225	1432	0.412	ng	#	99
12) 2-Methylnaphthalene	12.172	142	3813	0.405	ng		100
16) Acenaphthylene	14.078	152	5688	0.406	ng		99
17) Acenaphthene	14.420	154	3797	0.414	ng		99
18) Fluorene	15.403	166	5057	0.408	ng		98
20) 4,6-Dinitro-2-methylph...	15.499	198	377	0.405	ng		86
21) 4-Bromophenyl-phenylether	16.305	248	1516	0.424	ng	#	81
22) Hexachlorobenzene	16.416	284	1816	0.421	ng		96
23) Atrazine	16.578	200	1206	0.421	ng		94
24) Pentachlorophenol	16.764	266	772	0.392	ng		98
25) Phenanthrene	17.136	178	7434	0.435	ng		100
26) Anthracene	17.235	178	6627	0.429	ng		99
28) Fluoranthene	19.164	202	8247	0.429	ng		99
30) Pyrene	19.531	202	8317	0.437	ng		99
32) Benzo(a)anthracene	21.277	228	5282	0.390	ng		99
33) Chrysene	21.331	228	6576	0.445	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4080	0.423	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.823	276	5084	0.419	ng		97
37) Benzo(b)fluoranthene	22.870	252	5332	0.436	ng		99
38) Benzo(k)fluoranthene	22.914	252	5516	0.430	ng		96
39) Benzo(a)pyrene	23.449	252	4533	0.440	ng		97
40) Dibenzo(a,h)anthracene	25.841	278	3865	0.409	ng		97
41) Benzo(g,h,i)perylene	26.516	276	4584	0.424	ng		95

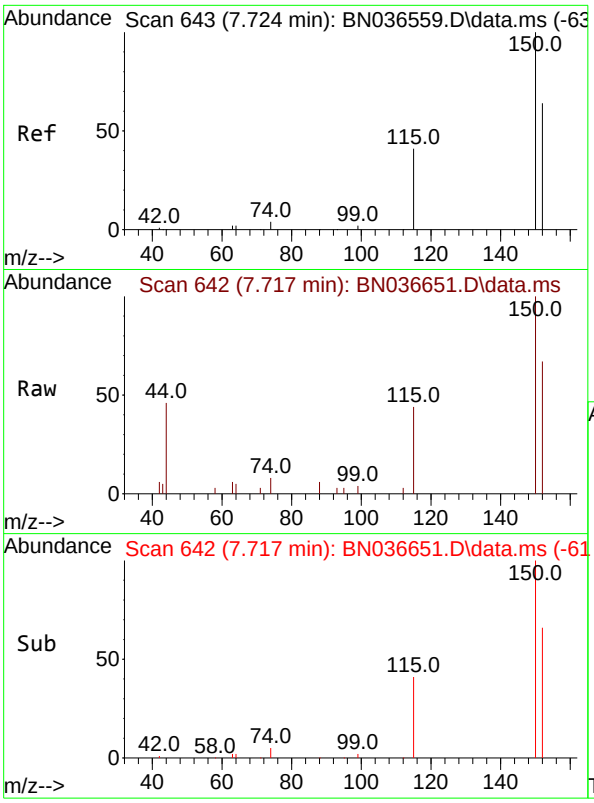
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036651.D
Acq On : 17 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 17 12:11:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
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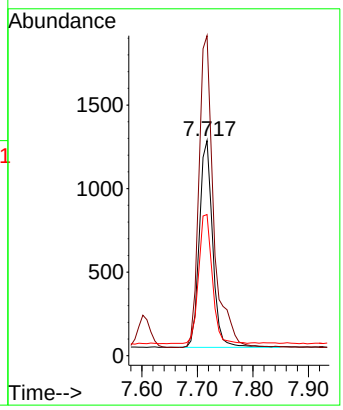


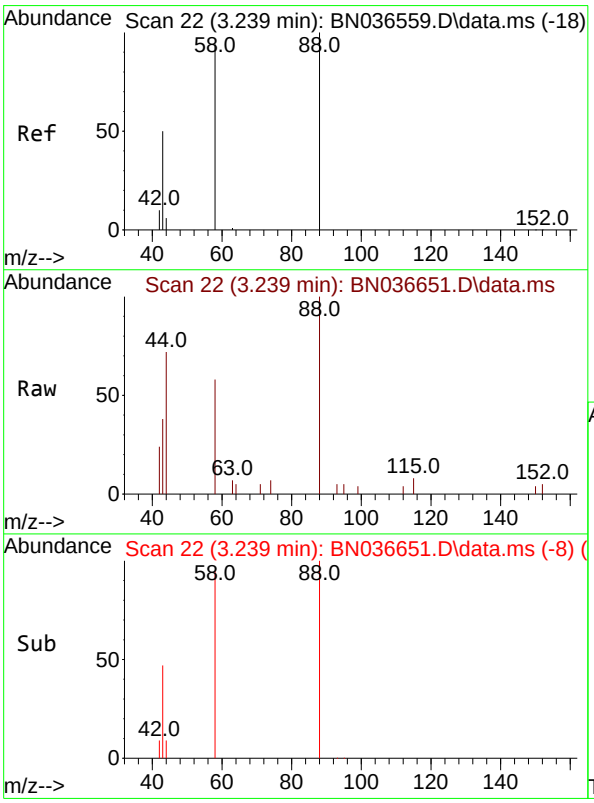
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2063

Ion	Ratio	Lower	Upper
152	100		
150	148.8	123.7	185.5
115	65.7	54.3	81.5

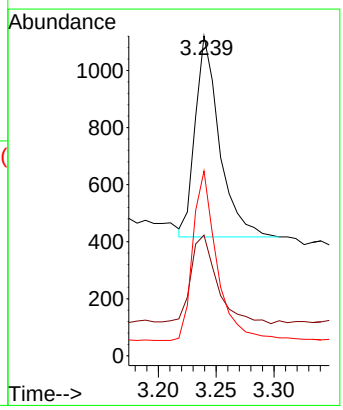


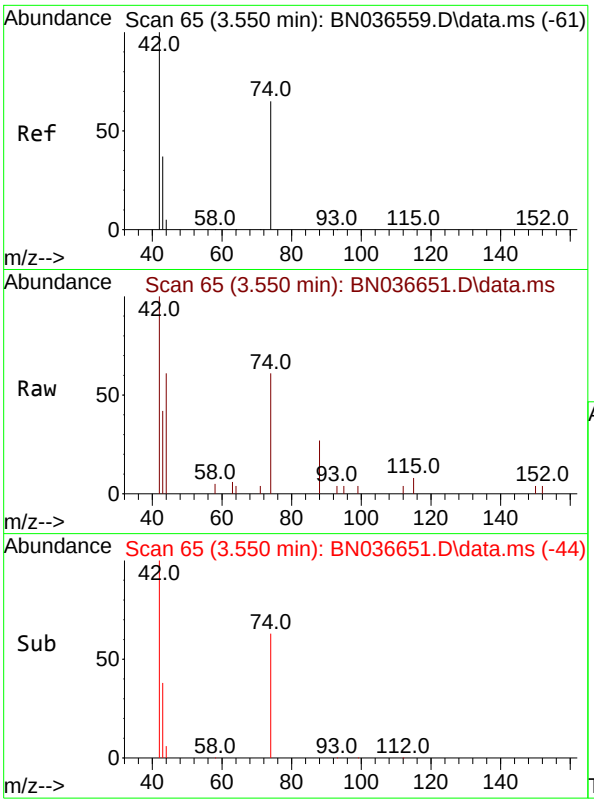


#2
1,4-Dioxane
Concen: 0.448 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion: 88 Resp: 1026

Ion	Ratio	Lower	Upper
88	100		
43	48.1	37.8	56.8
58	83.8	67.4	101.2



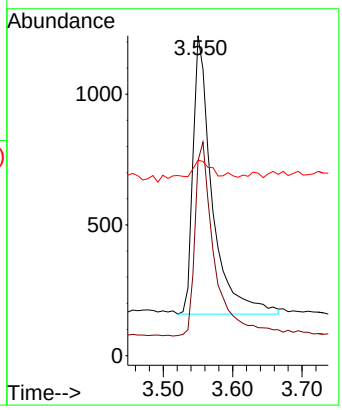


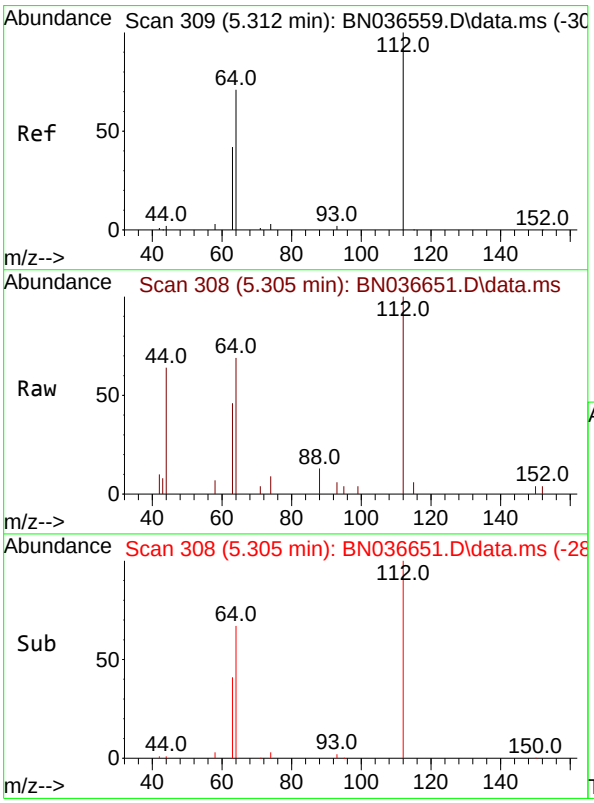
#3
n-Nitrosodimethylamine
Concen: 0.440 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2035

Ion	Ratio	Lower	Upper
42	100		
74	71.4	60.6	90.8
44	11.0	6.3	9.5#

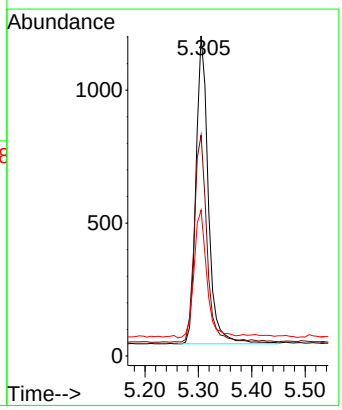


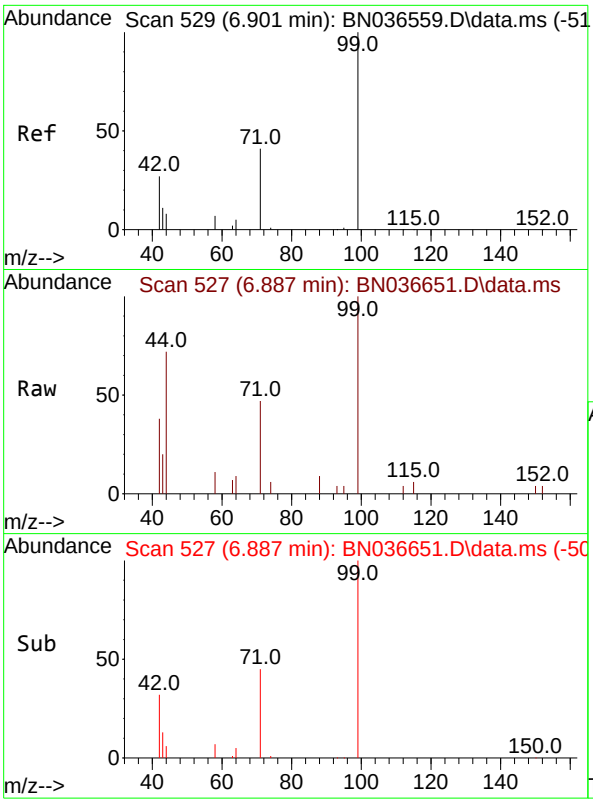


#4
2-Fluorophenol
Concen: 0.389 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:112 Resp: 1870

Ion	Ratio	Lower	Upper
112	100		
64	69.0	53.1	79.7
63	43.0	31.8	47.8



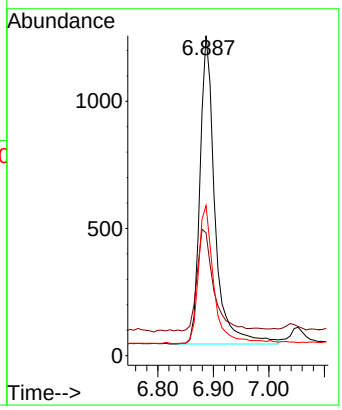


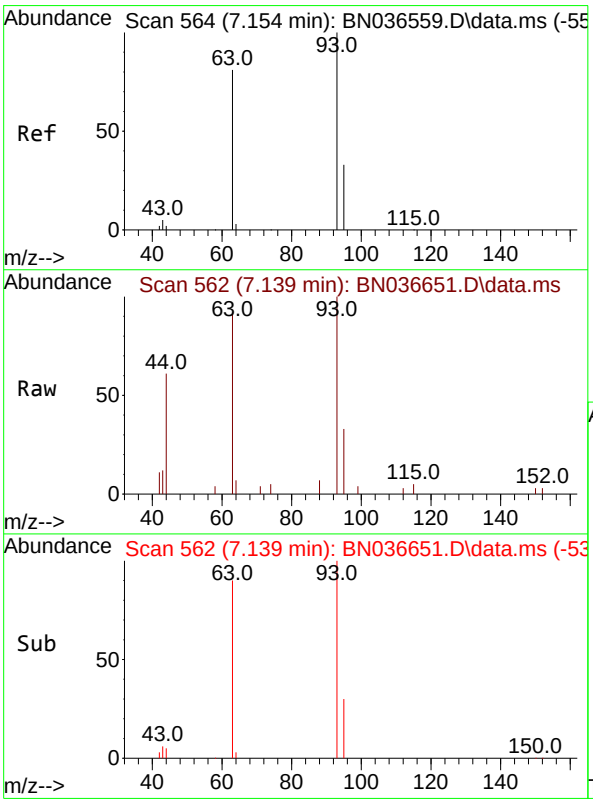
#5
Phenol-d6
Concen: 0.382 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2271

Ion	Ratio	Lower	Upper
99	100		
42	36.2	26.5	39.7
71	46.1	34.1	51.1

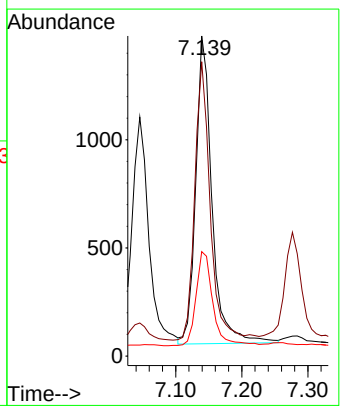


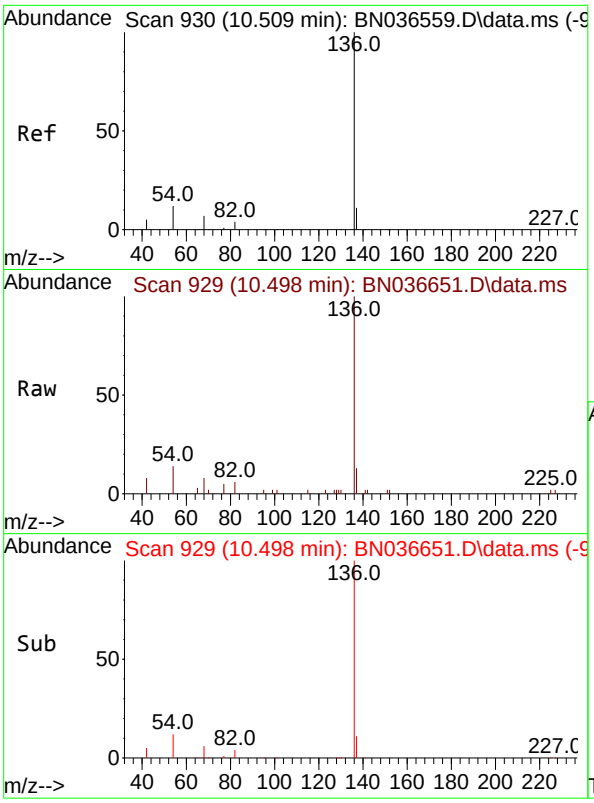


#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion: 93 Resp: 2441

Ion	Ratio	Lower	Upper
93	100		
63	86.0	67.7	101.5
95	31.3	25.6	38.4



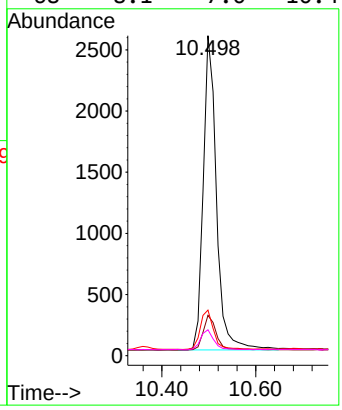


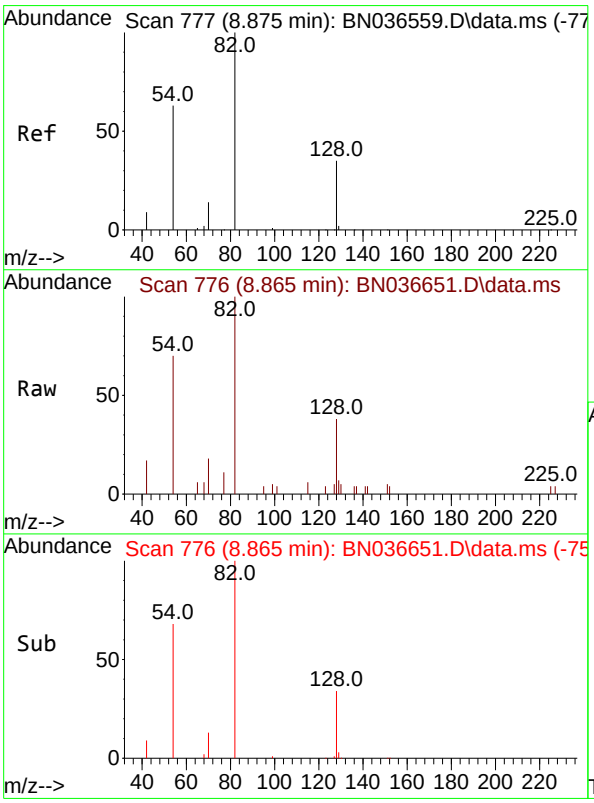
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5025

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	14.3	11.5	17.3
68	8.1	7.0	10.4

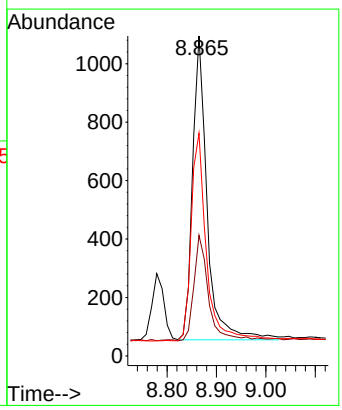


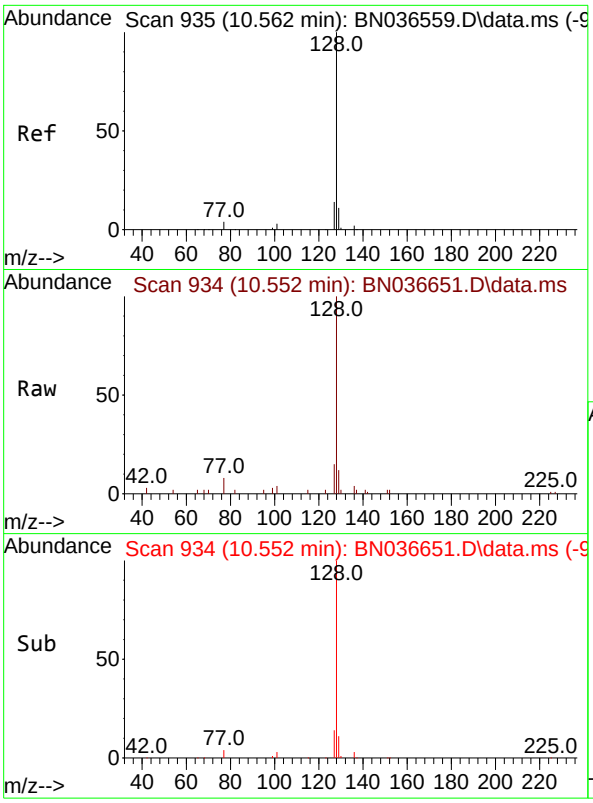


#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion: 82 Resp: 2131

Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	69.6	52.2	78.4



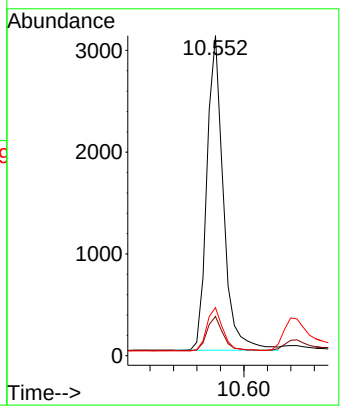


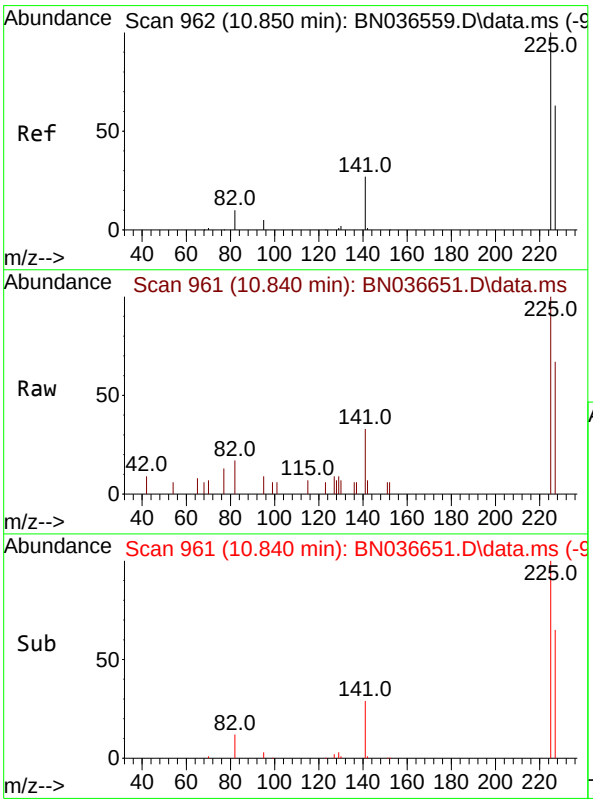
#9
Naphthalene
Concen: 0.408 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6028

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	15.0	11.8	17.8

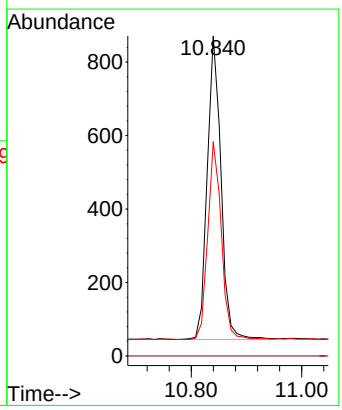


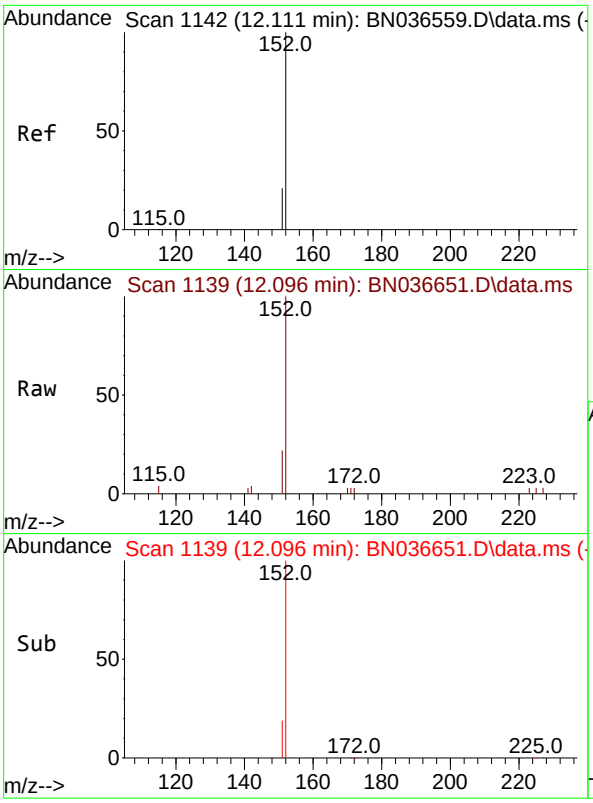


#10
Hexachlorobutadiene
Concen: 0.412 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:225 Resp: 1432

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8



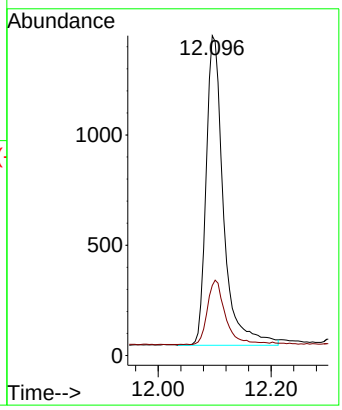


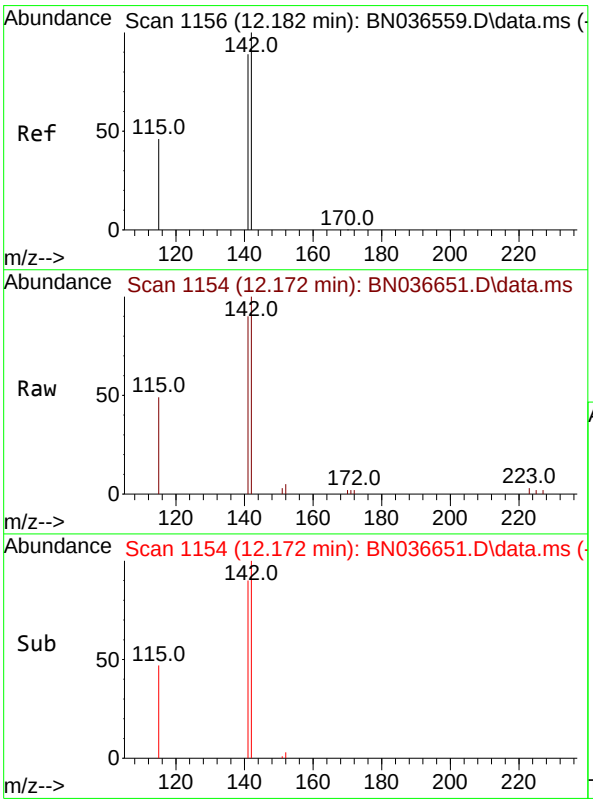
#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2982

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.0	25.6

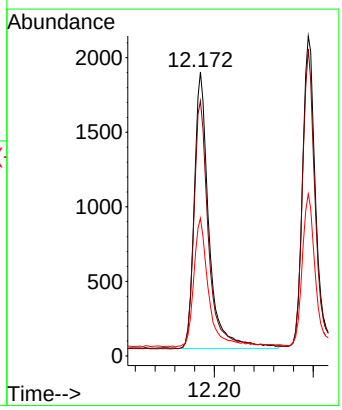


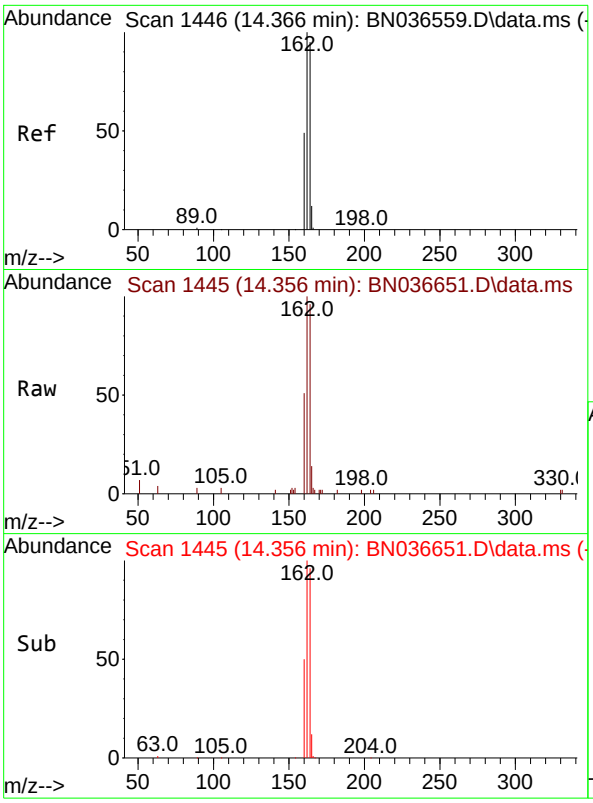


#12
2-Methylnaphthalene
Concen: 0.405 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:142 Resp: 3813

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.7	107.5
115	48.5	38.3	57.5



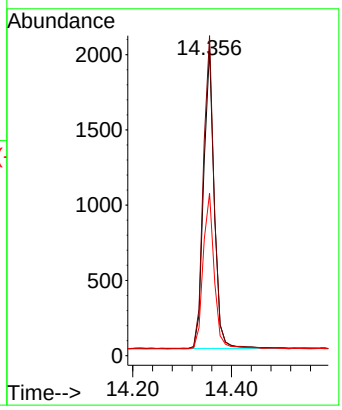


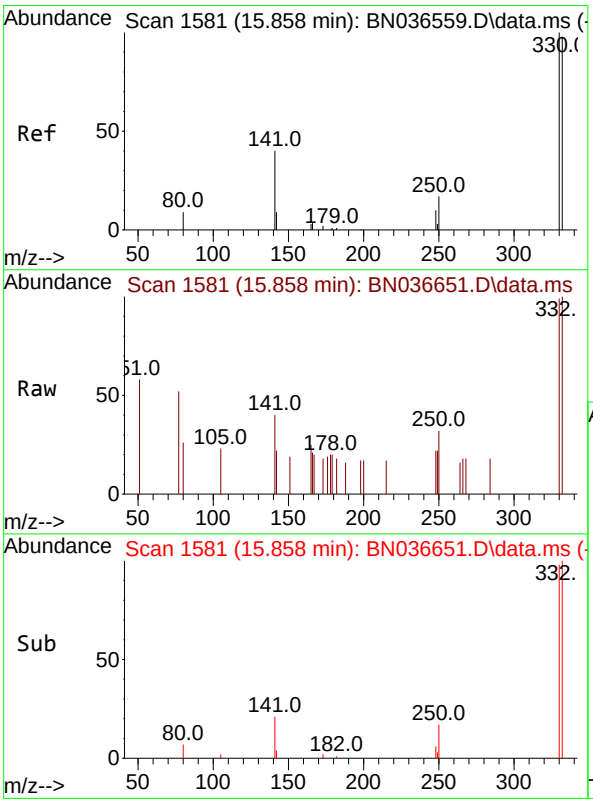
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2968

Ion	Ratio	Lower	Upper
164	100		
162	104.4	84.2	126.2
160	53.0	42.2	63.2

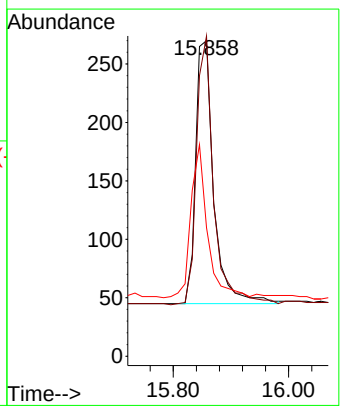


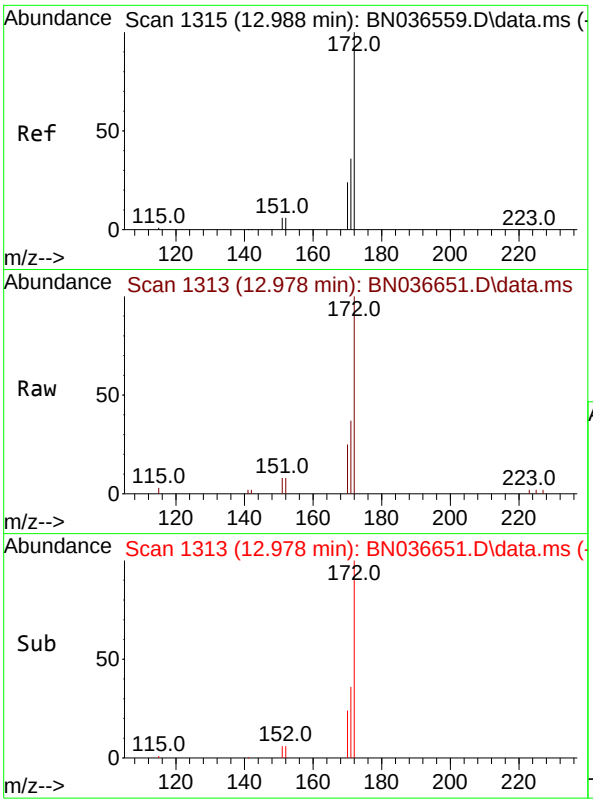


#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:330 Resp: 489

Ion	Ratio	Lower	Upper
330	100		
332	98.2	75.2	112.8
141	53.4	43.4	65.2



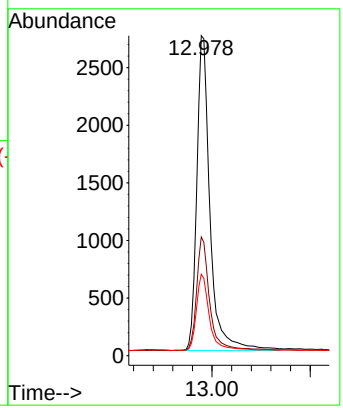


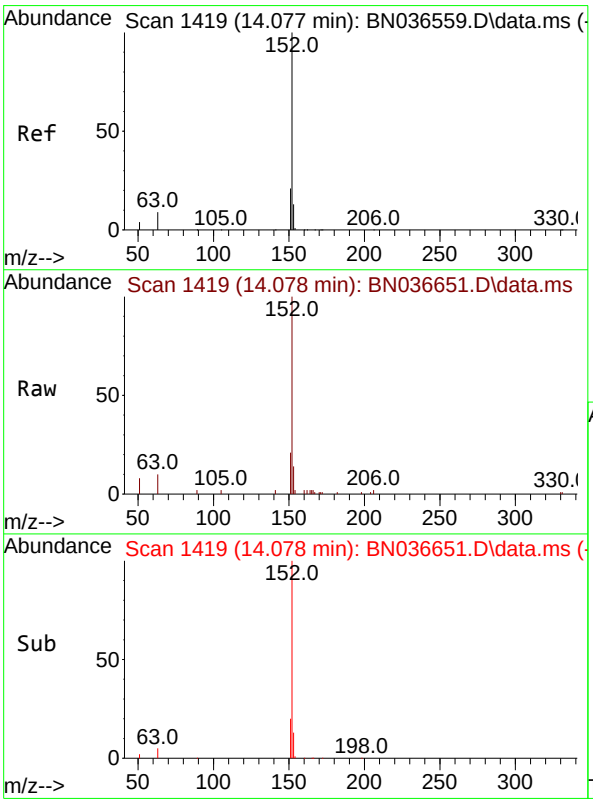
#15
2-Fluorobiphenyl
Concen: 0.417 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 7207

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	25.5	20.2	30.4

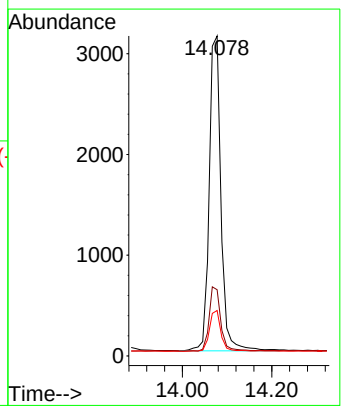


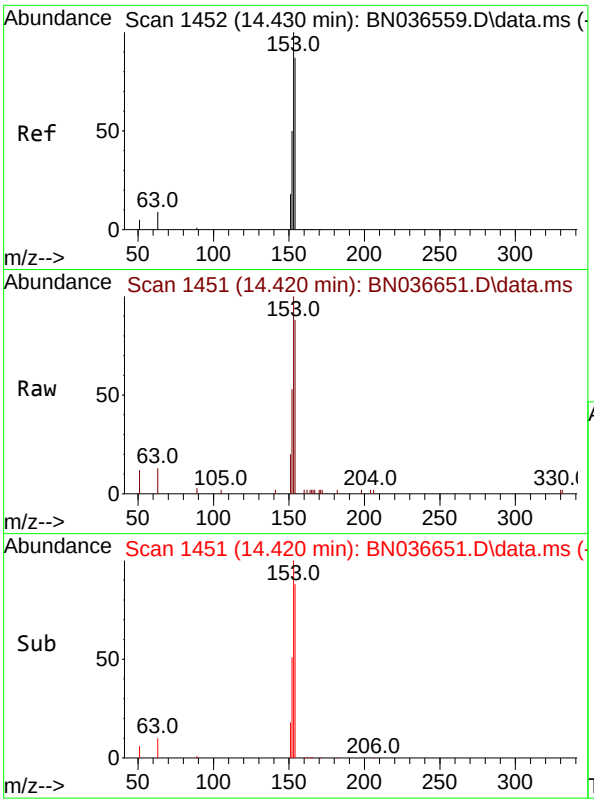


#16
Acenaphthylene
Concen: 0.406 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:152 Resp: 5688

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.4
153	12.7	10.6	15.8



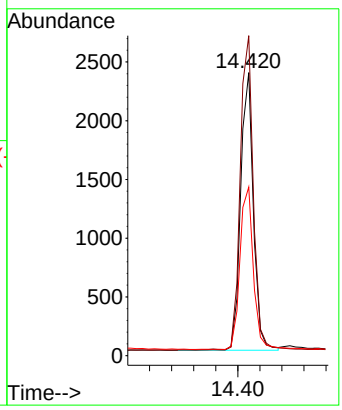


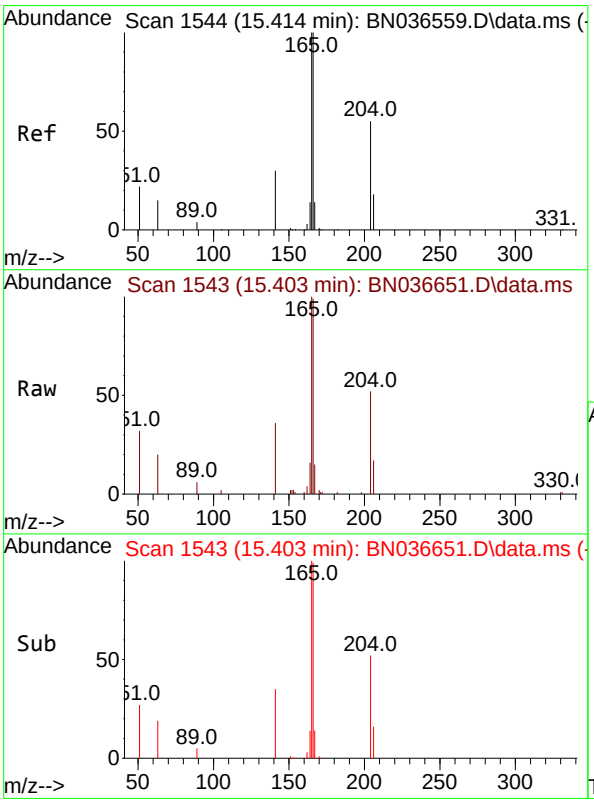
#17
Acenaphthene
Concen: 0.414 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 3797

Ion	Ratio	Lower	Upper
154	100		
153	116.7	94.1	141.1
152	61.8	49.8	74.6

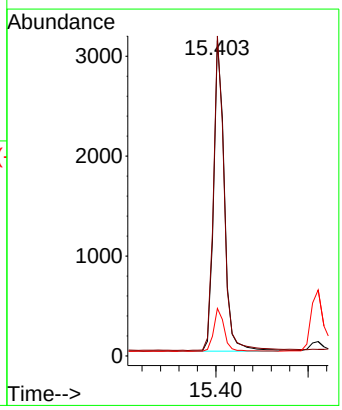


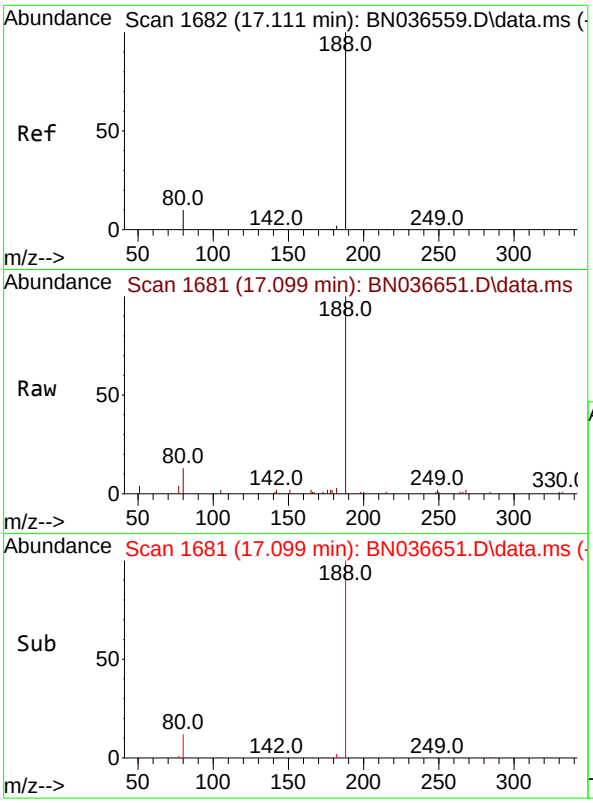


#18
Fluorene
Concen: 0.408 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:166 Resp: 5057

Ion	Ratio	Lower	Upper
166	100		
165	101.9	79.8	119.8
167	13.8	10.6	15.8



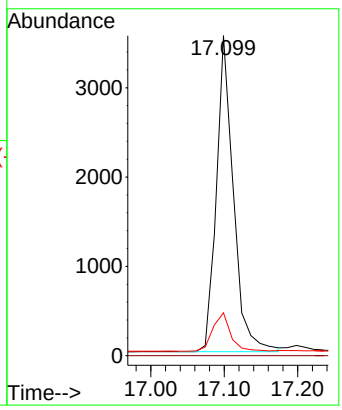


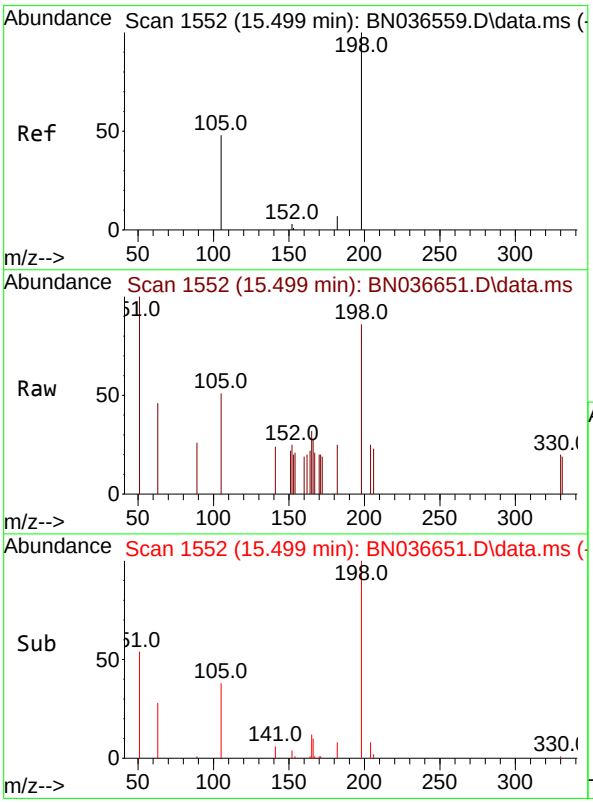
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 5703

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	8.8	13.2#

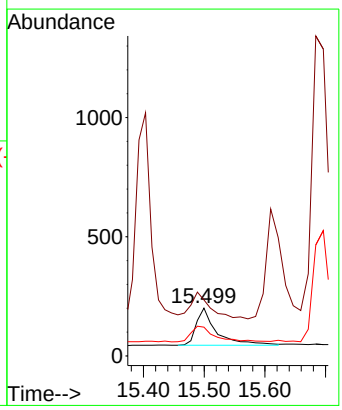


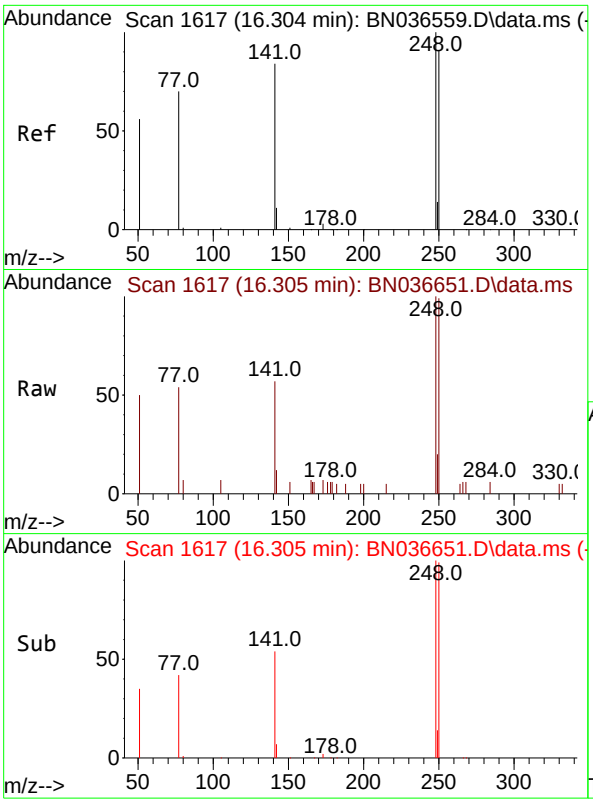


#20
4,6-Dinitro-2-methylphenol
Concen: 0.405 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:198 Resp: 377

Ion	Ratio	Lower	Upper
198	100		
51	116.9	107.9	161.9
105	60.2	56.2	84.2



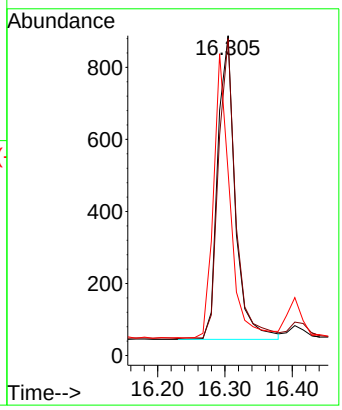


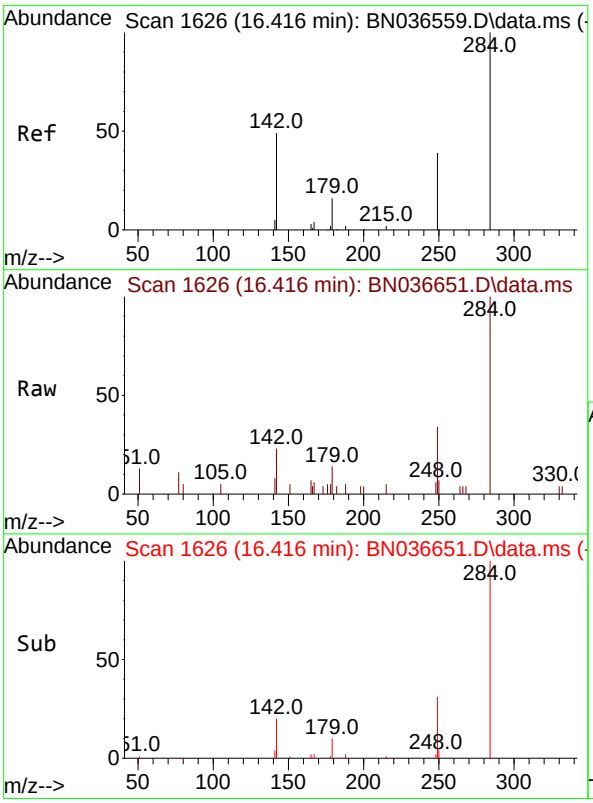
#21
4-Bromophenyl-phenylether
Concen: 0.424 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1516

Ion	Ratio	Lower	Upper
248	100		
250	99.1	73.0	109.6
141	57.3	68.6	103.0#

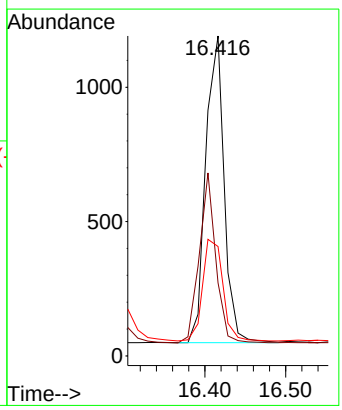


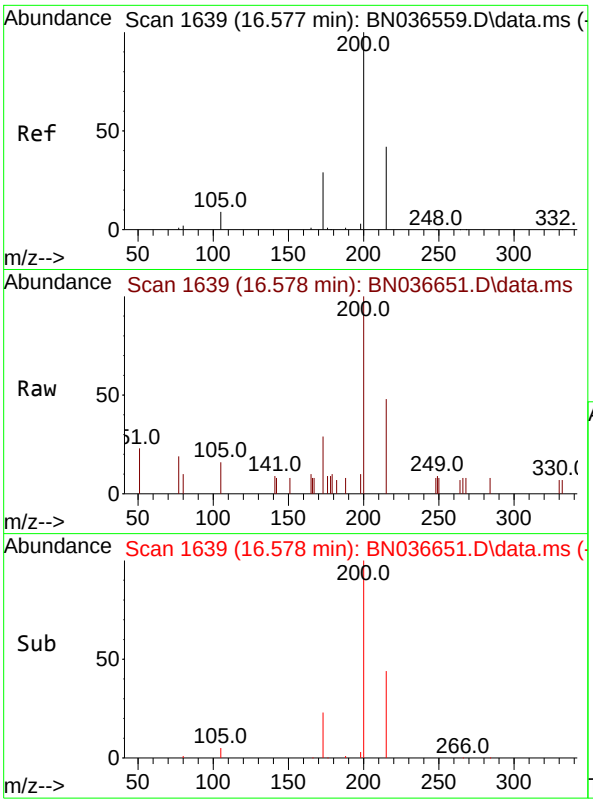


#22
Hexachlorobenzene
Concen: 0.421 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:284 Resp: 1816

Ion	Ratio	Lower	Upper
284	100		
142	49.4	37.0	55.4
249	36.1	28.1	42.1



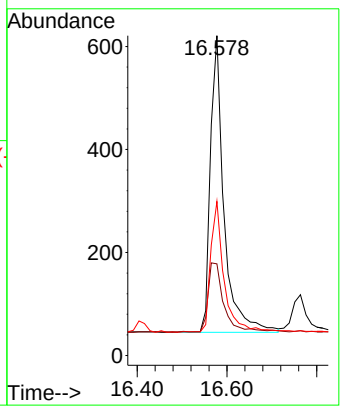


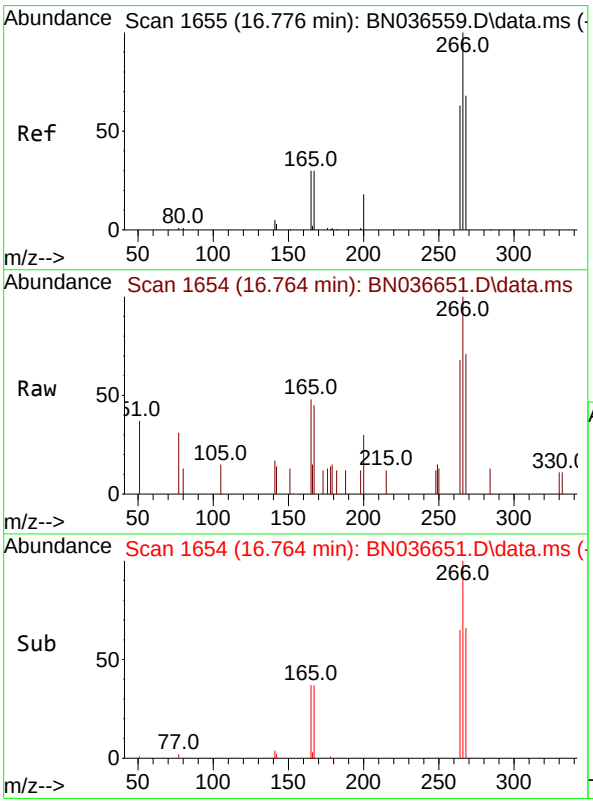
#23
Atrazine
Concen: 0.421 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1206

Ion	Ratio	Lower	Upper
200	100		
173	28.7	27.3	40.9
215	48.1	36.8	55.2

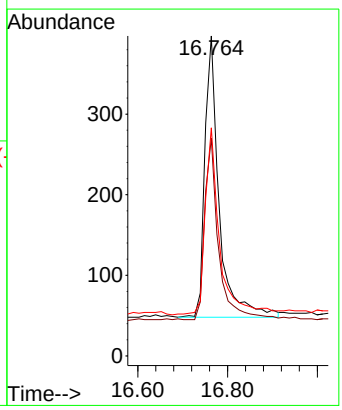


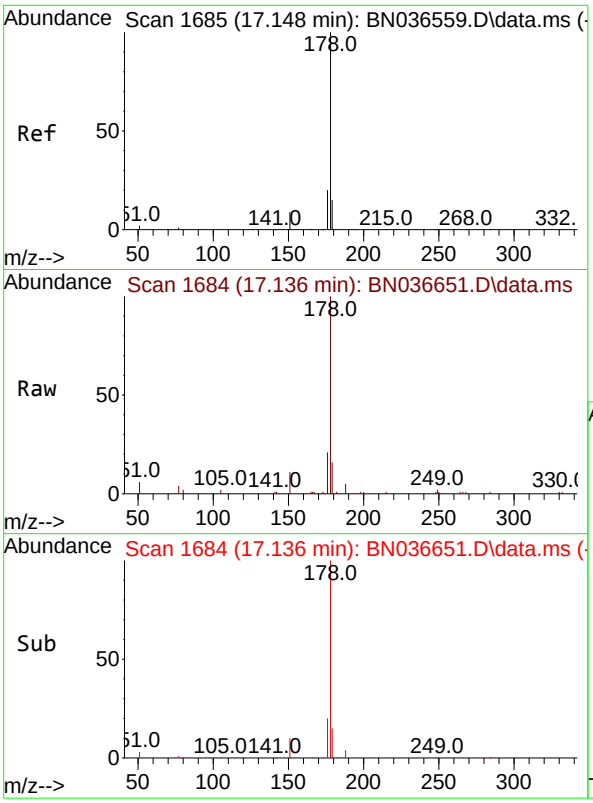


#24
Pentachlorophenol
Concen: 0.392 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:266 Resp: 772

Ion	Ratio	Lower	Upper
266	100		
264	62.6	49.6	74.4
268	66.8	50.9	76.3



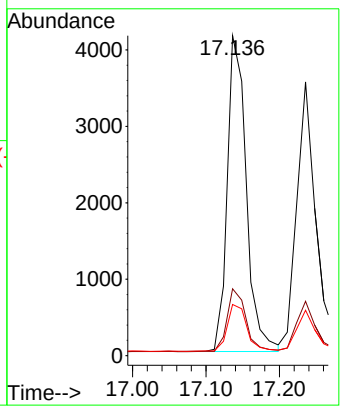


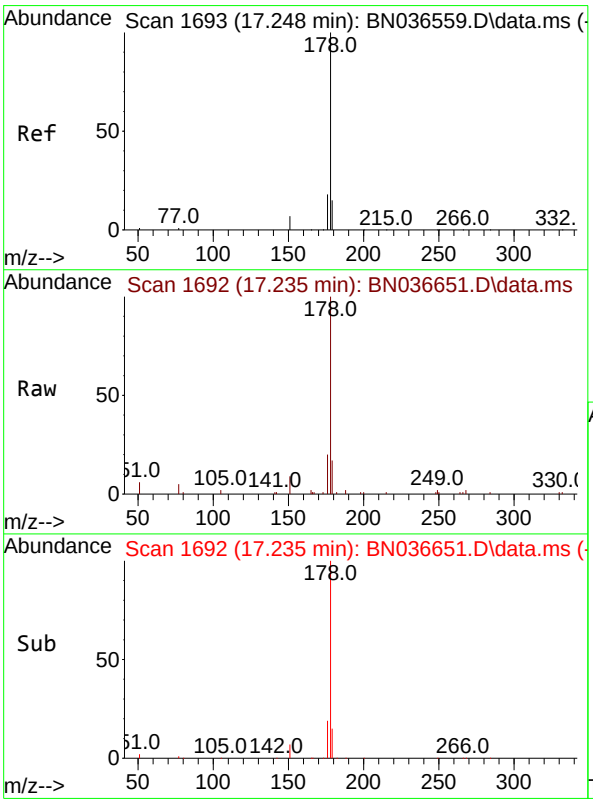
#25
Phenanthrene
Concen: 0.435 ng
RT: 17.136 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 7434

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.5	12.2	18.4

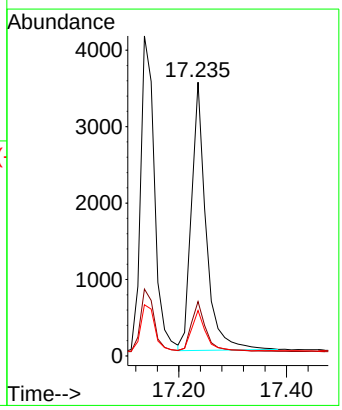


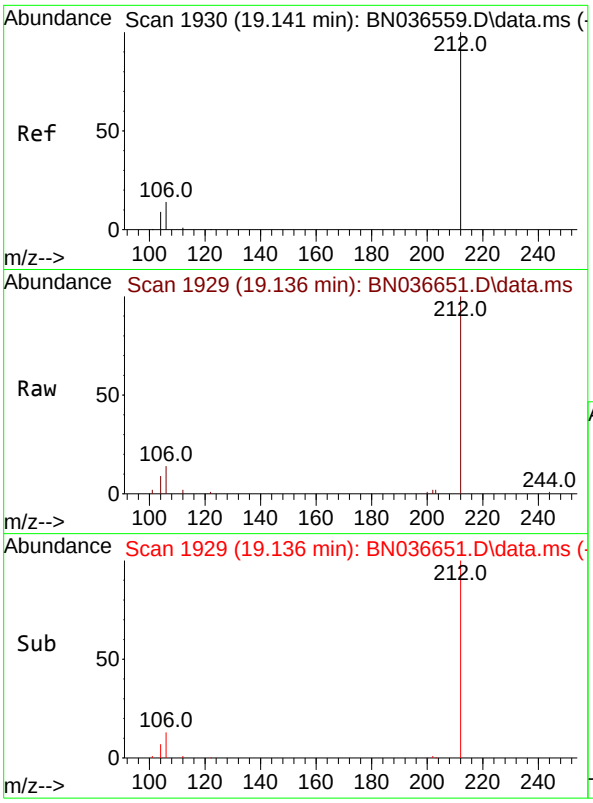


#26
Anthracene
Concen: 0.429 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:178 Resp: 6627

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	14.9	12.6	18.8



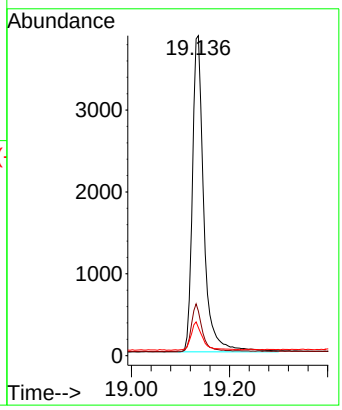


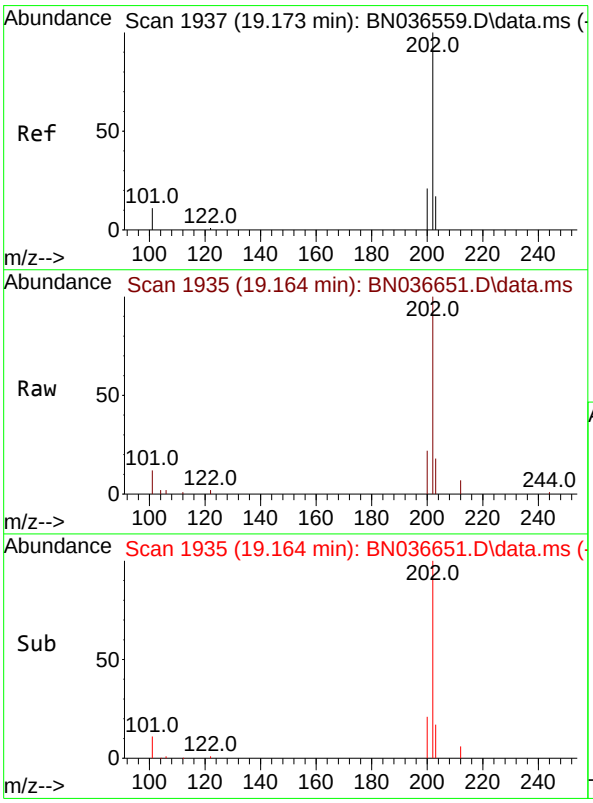
#27
Fluoranthene-d10
Concen: 0.428 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 6261

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.8	17.6
104	9.1	7.3	10.9

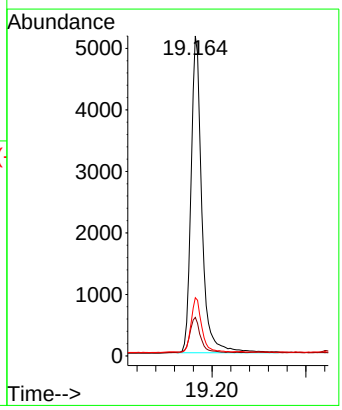


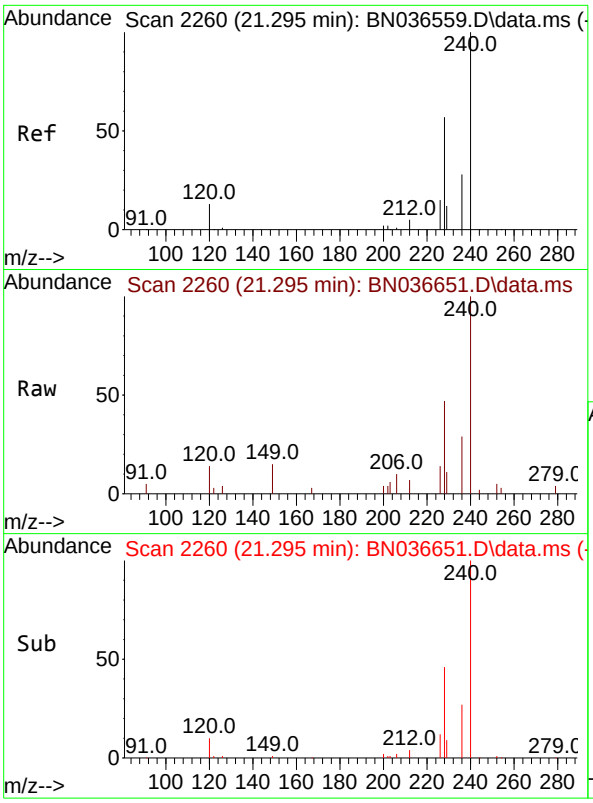


#28
Fluoranthene
Concen: 0.429 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:202 Resp: 8247

Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.4	14.0
203	16.7	13.5	20.3



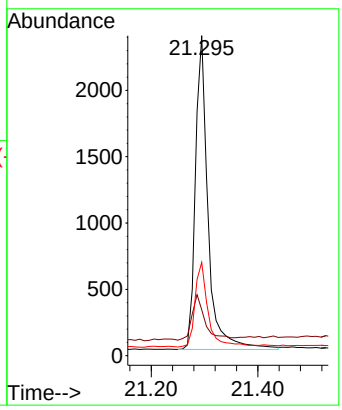


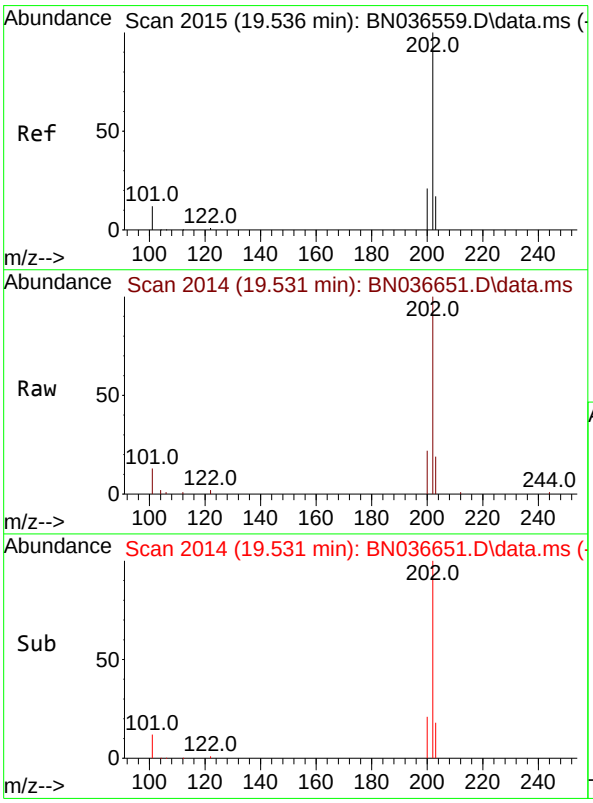
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 3893

Ion	Ratio	Lower	Upper
240	100		
120	14.4	14.6	22.0#
236	29.1	24.1	36.1

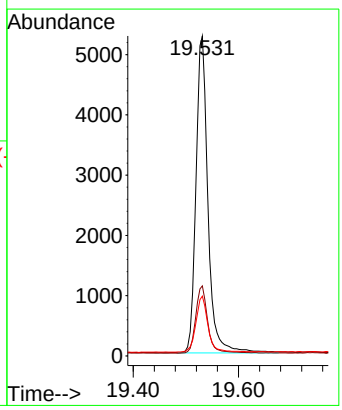


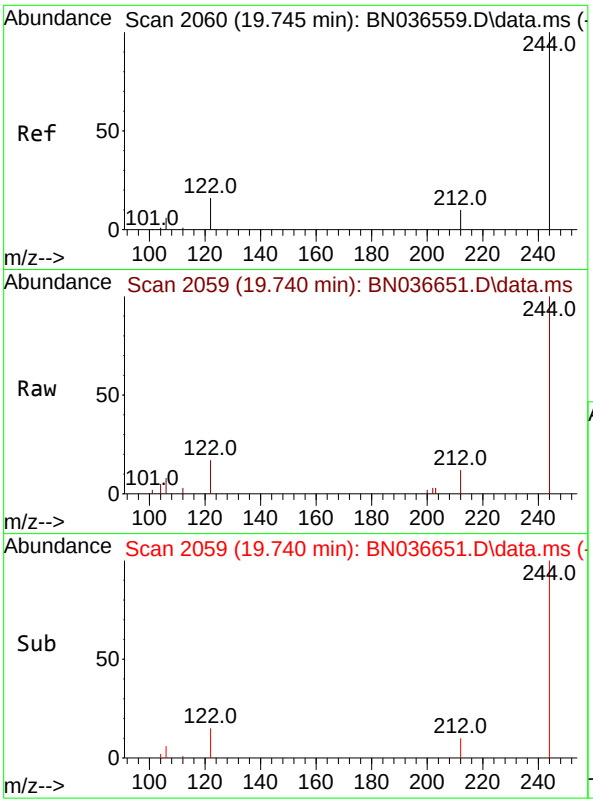


#30
Pyrene
Concen: 0.437 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:202 Resp: 8317

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.9	14.1	21.1



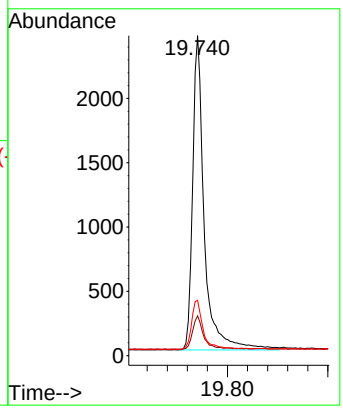


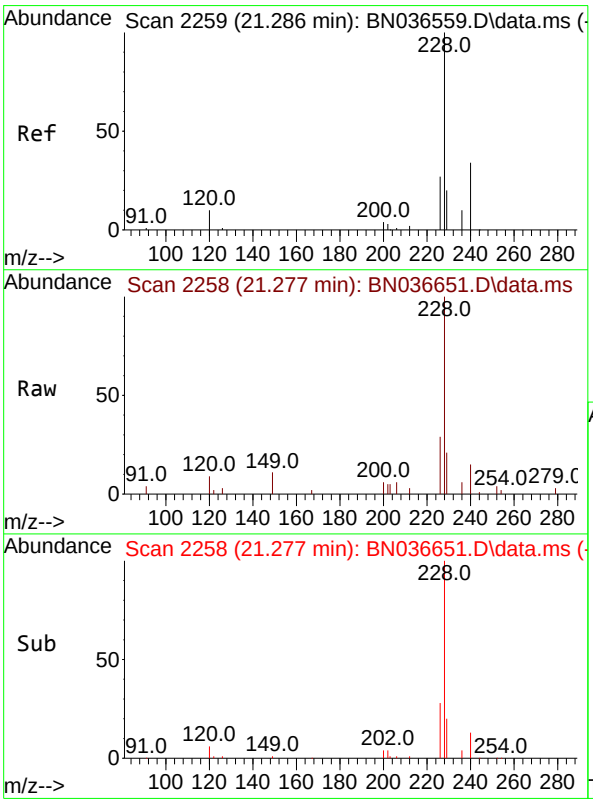
#31
Terphenyl-d14
Concen: 0.421 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3924

Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.6	14.4
122	17.3	13.9	20.9

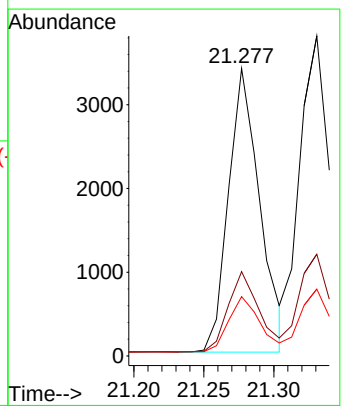


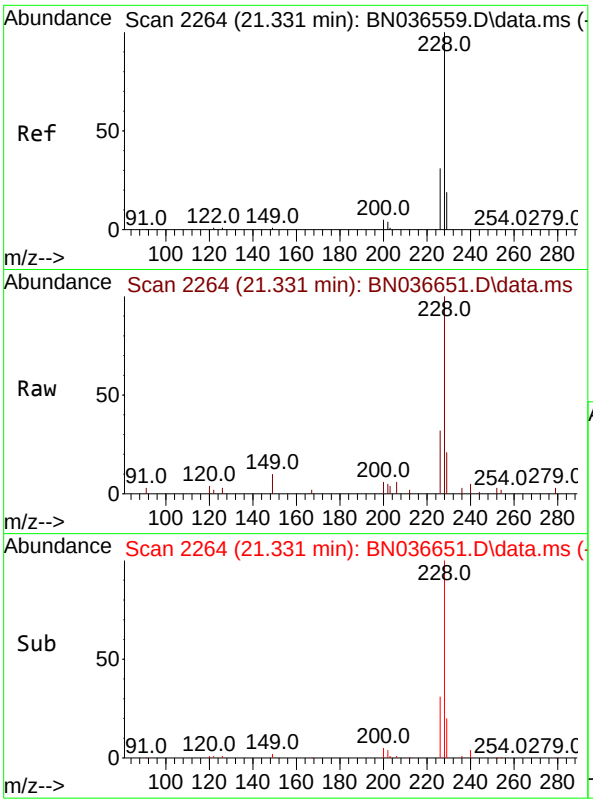


#32
Benzo(a)anthracene
Concen: 0.390 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:228 Resp: 5282

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.5	33.7
229	20.6	16.6	25.0



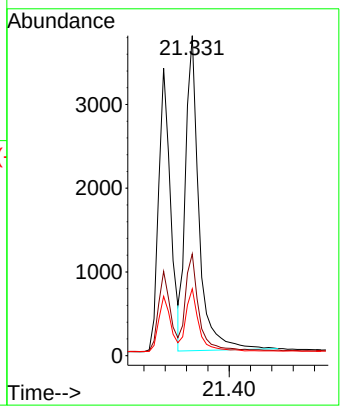


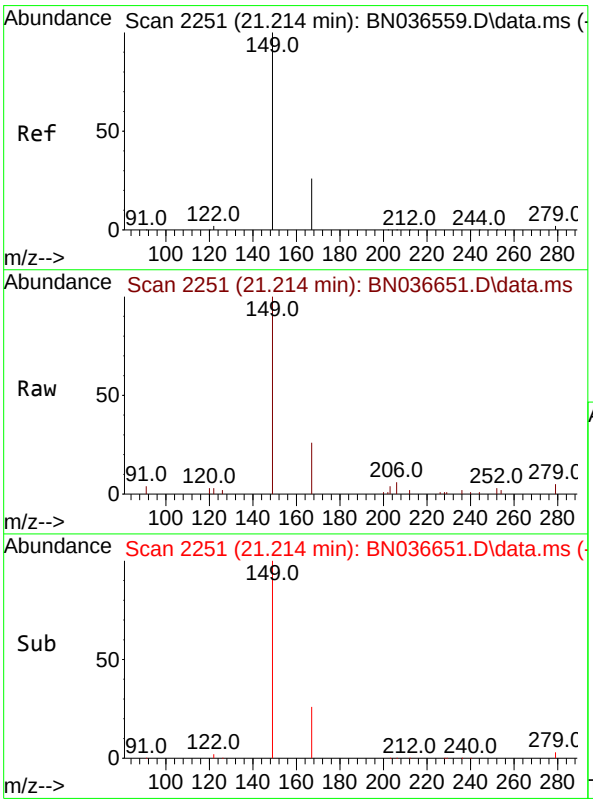
#33
Chrysene
Concen: 0.445 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6576

Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.3	37.9
229	20.9	15.8	23.8

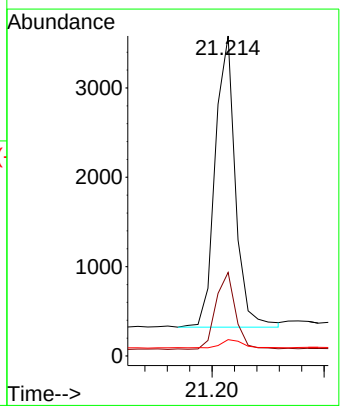


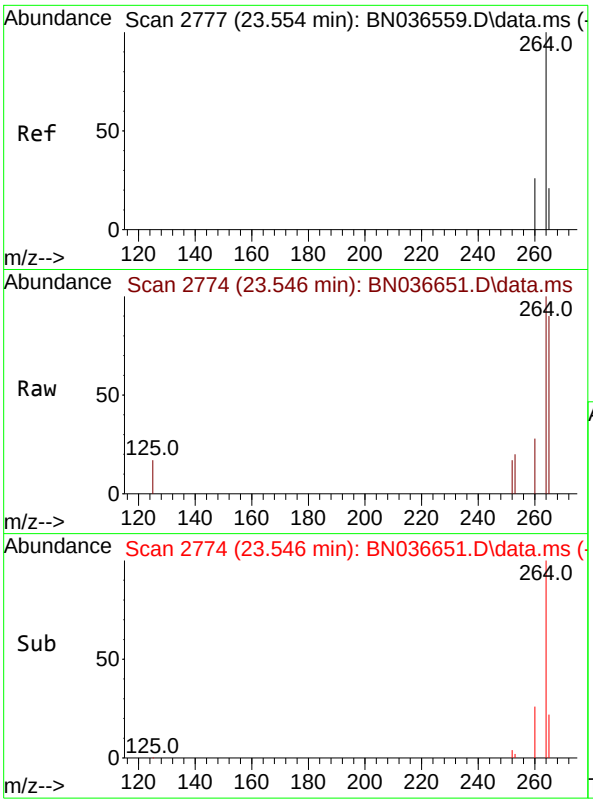


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.423 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:149 Resp: 4080

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.7	31.1
279	3.0	3.6	5.4#



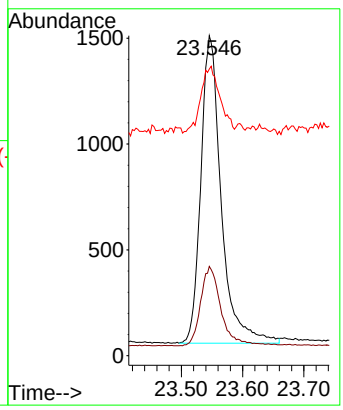


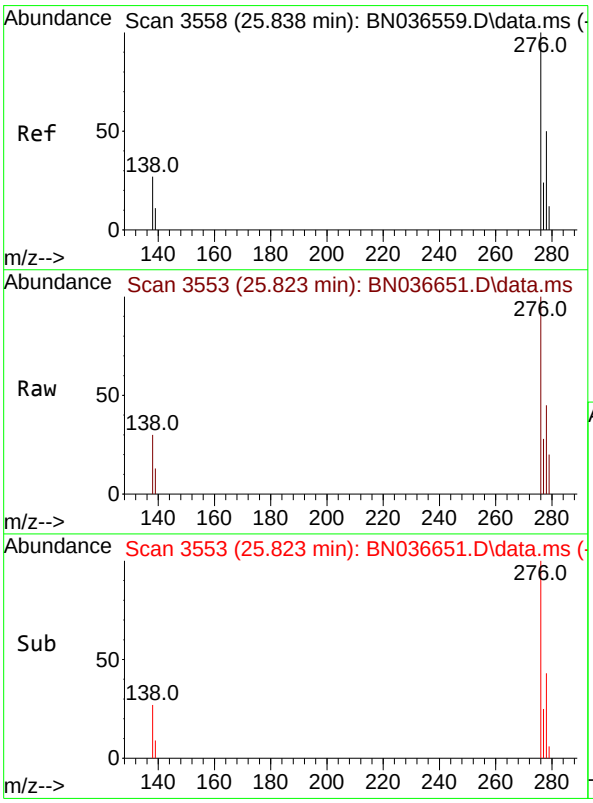
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3363

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.6	33.8
265	89.6	88.1	132.1

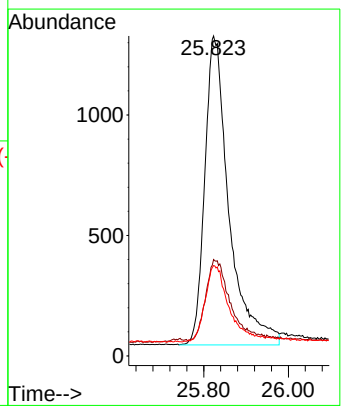


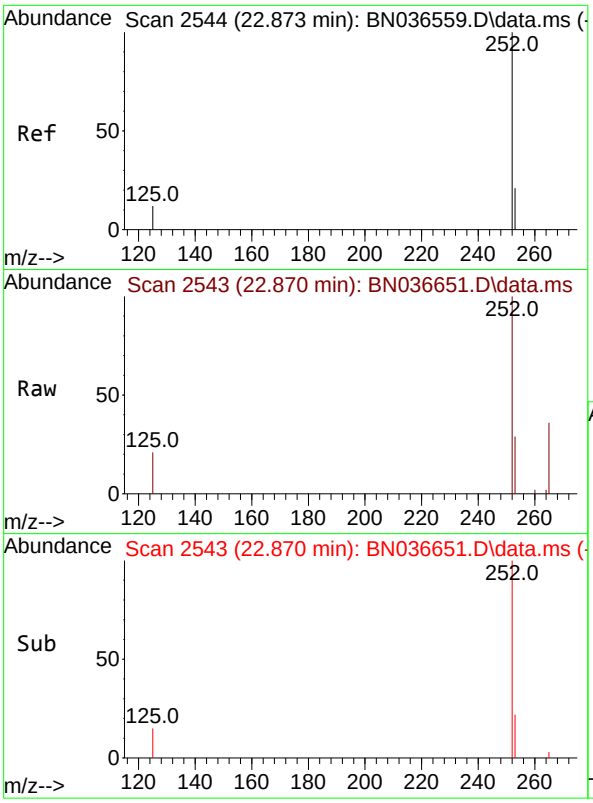


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.419 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:276 Resp: 5084

Ion	Ratio	Lower	Upper
276	100		
138	26.7	23.4	35.2
277	24.4	20.0	30.0



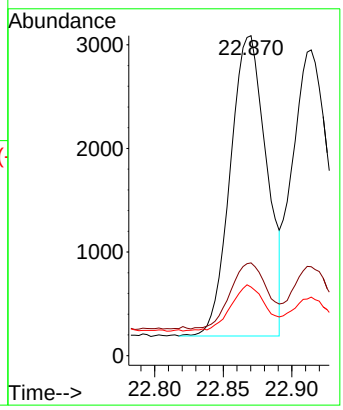


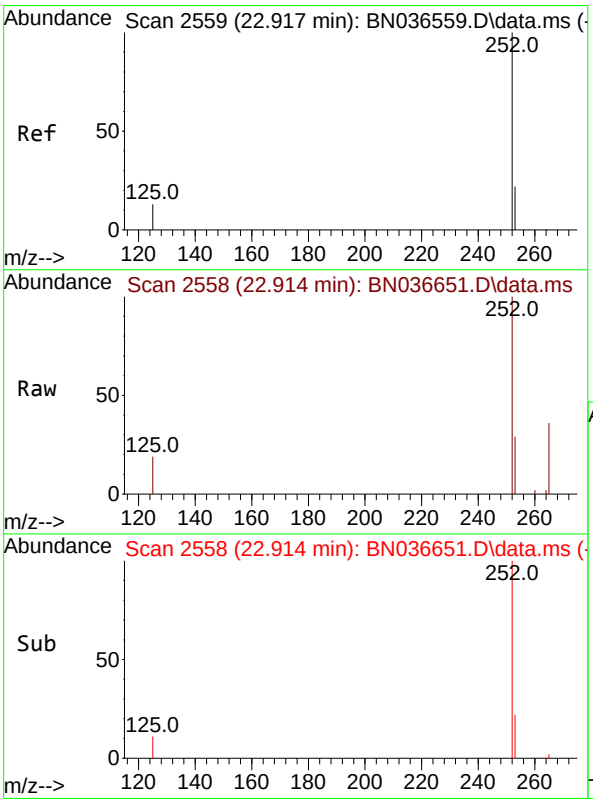
#37
Benzo(b)fluoranthene
Concen: 0.436 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5332

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	21.4	17.4	26.2

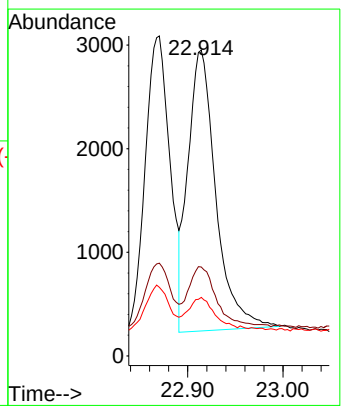


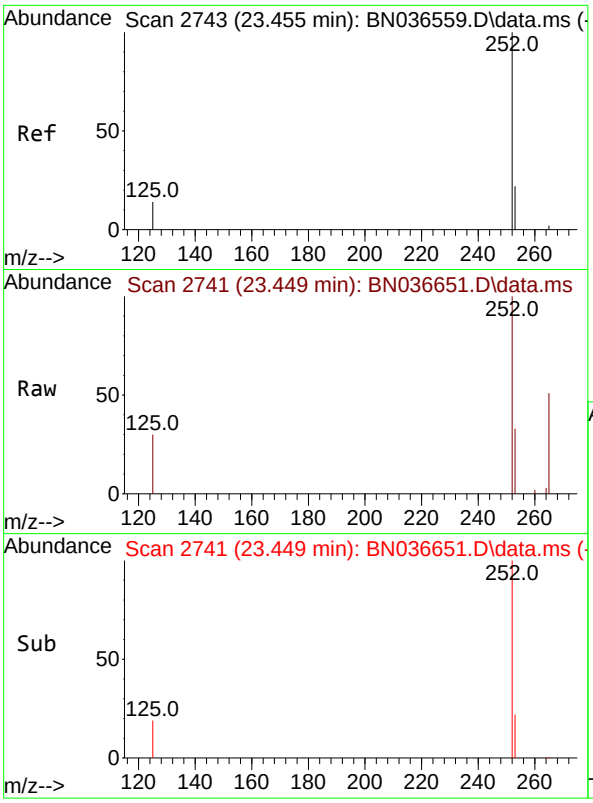


#38
Benzo(k)fluoranthene
Concen: 0.430 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:252 Resp: 5516

Ion	Ratio	Lower	Upper
252	100		
253	29.1	24.6	36.8
125	19.1	17.8	26.8



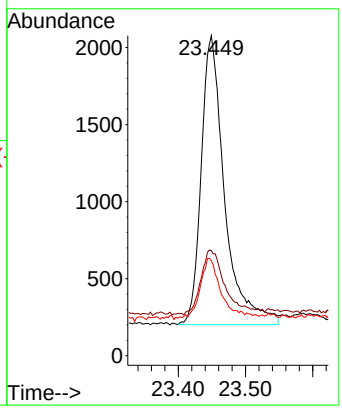


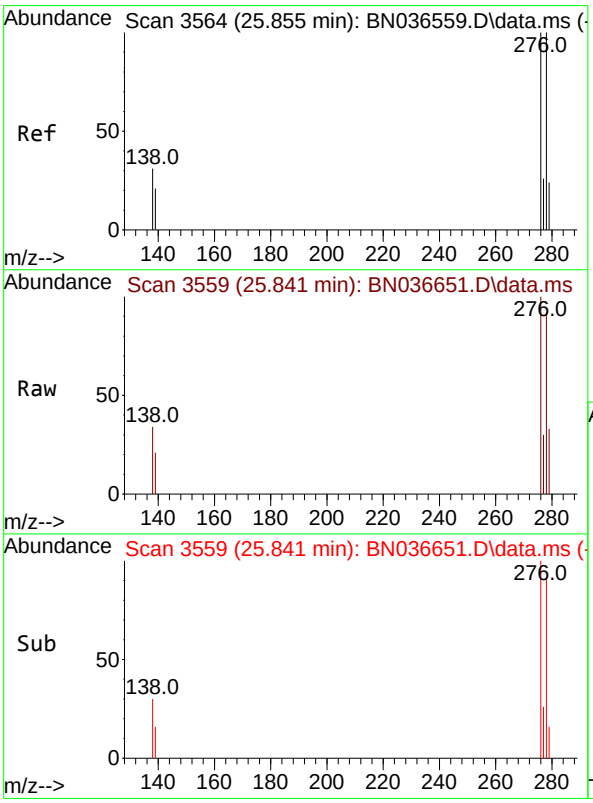
#39
Benzo(a)pyrene
Concen: 0.440 ng
RT: 23.449 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4533

Ion	Ratio	Lower	Upper
252	100		
253	32.8	27.8	41.8
125	29.7	22.7	34.1

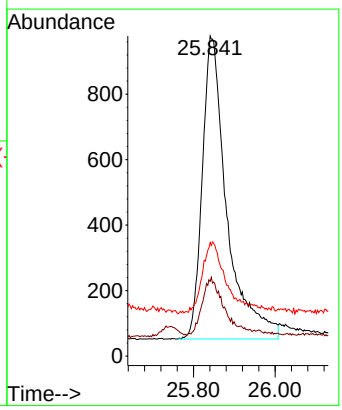


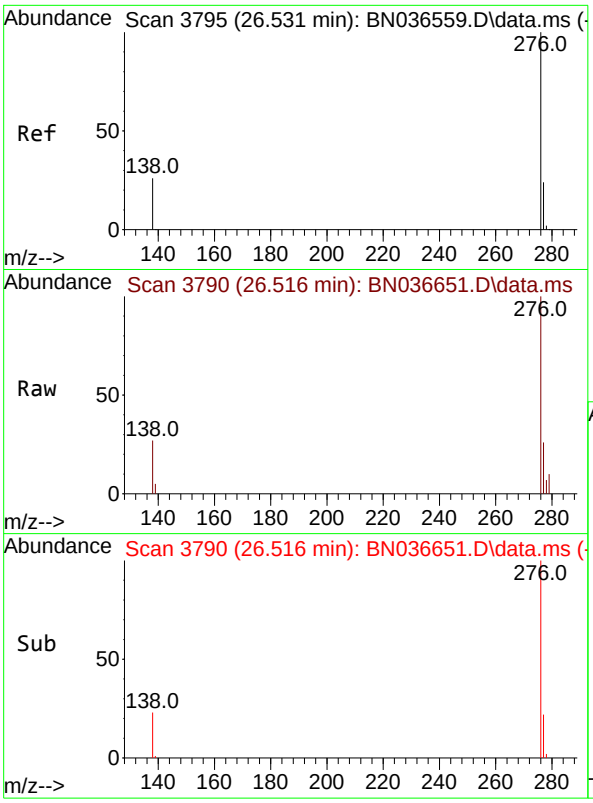


#40
Dibenzo(a,h)anthracene
Concen: 0.409 ng
RT: 25.841 min Scan# 3559
Delta R.T. -0.014 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Tgt Ion:278 Resp: 3865

Ion	Ratio	Lower	Upper
278	100		
139	23.3	20.8	31.2
279	35.5	28.8	43.2



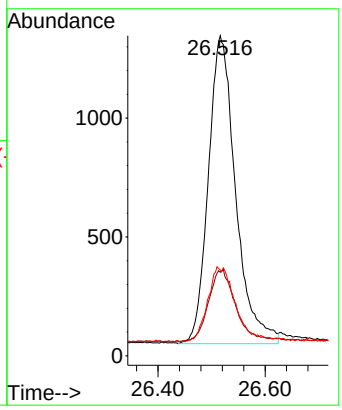


#41
Benzo(g,h,i)perylene
Concen: 0.424 ng
RT: 26.516 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN036651.D
Acq: 17 Mar 2025 09:49

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4584

Ion	Ratio	Lower	Upper
276	100		
277	26.1	22.2	33.4
138	26.8	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036651.D
Acq On : 17 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 17 12:11:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		1,4-Dioxane	0.444	0.497	-11.9	93	0.00
3		n-Nitrosodimethylamine	0.898	0.986	-9.8	99	0.00
4	S	2-Fluorophenol	0.932	0.906	2.8	86	0.00
5	S	Phenol-d6	1.152	1.101	4.4	91	-0.01
6		bis(2-Chloroethyl)ether	1.190	1.183	0.6	94	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	99	-0.01
8	S	Nitrobenzene-d5	0.435	0.424	2.5	101	-0.01
9		Naphthalene	1.177	1.200	-2.0	98	-0.01
10		Hexachlorobutadiene	0.277	0.285	-2.9	96	-0.01
11	SURR	2-Methylnaphthalene-d10	0.595	0.593	0.3	97	-0.02
12		2-Methylnaphthalene	0.749	0.759	-1.3	98	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	98	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.165	9.3	86	0.00
15	S	2-Fluorobiphenyl	2.327	2.428	-4.3	99	0.00
16		Acenaphthylene	1.888	1.916	-1.5	97	0.00
17		Acenaphthene	1.236	1.279	-3.5	98	-0.01
18		Fluorene	1.672	1.704	-1.9	95	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.066	23.3	82	0.00
21		4-Bromophenyl-phenylether	0.251	0.266	-6.0	92	0.00
22		Hexachlorobenzene	0.303	0.318	-5.0	90	0.00
23		Atrazine	0.201	0.211	-5.0	94	0.00
24		Pentachlorophenol	0.138	0.135	2.2	94	-0.01
25		Phenanthrene	1.200	1.304	-8.7	95	-0.01
26		Anthracene	1.083	1.162	-7.3	96	-0.01
27	SURR	Fluoranthene-d10	1.025	1.098	-7.1	93	0.00
28		Fluoranthene	1.348	1.446	-7.3	95	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
30		Pyrene	1.956	2.136	-9.2	95	0.00
31	S	Terphenyl-d14	0.958	1.008	-5.2	93	0.00
32		Benzo(a)anthracene	1.391	1.357	2.4	89	0.00
33		Chrysene	1.520	1.689	-11.1	99	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	1.048	-5.9	95	0.00
35	I	Perylene-d12	1.000	1.000	0.0	95	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.512	-4.7	93	-0.01
37		Benzo(b)fluoranthene	1.456	1.585	-8.9	97	0.00
38		Benzo(k)fluoranthene	1.527	1.640	-7.4	96	0.00
39	C	Benzo(a)pyrene	1.226	1.348	-10.0	98	0.00
40		Dibenzo(a,h)anthracene	1.124	1.149	-2.2	94	-0.01
41		Benzo(g,h,i)perylene	1.286	1.363	-6.0	94	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036651.D
Acq On : 17 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 17 12:11:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	93	0.00
2		1,4-Dioxane	0.400	0.448	-12.0	93	0.00
3		n-Nitrosodimethylamine	0.400	0.440	-10.0	99	0.00
4	S	2-Fluorophenol	0.400	0.389	2.8	86	0.00
5	S	Phenol-d6	0.400	0.382	4.5	91	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.398	0.5	94	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	99	-0.01
8	S	Nitrobenzene-d5	0.400	0.390	2.5	101	-0.01
9		Naphthalene	0.400	0.408	-2.0	98	-0.01
10		Hexachlorobutadiene	0.400	0.412	-3.0	96	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	97	-0.02
12		2-Methylnaphthalene	0.400	0.405	-1.3	98	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	98	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.363	9.3	86	0.00
15	S	2-Fluorobiphenyl	0.400	0.417	-4.2	99	0.00
16		Acenaphthylene	0.400	0.406	-1.5	97	0.00
17		Acenaphthene	0.400	0.414	-3.5	98	-0.01
18		Fluorene	0.400	0.408	-2.0	95	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	95	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.405	-1.3	82	0.00
21		4-Bromophenyl-phenylether	0.400	0.424	-6.0	92	0.00
22		Hexachlorobenzene	0.400	0.421	-5.2	90	0.00
23		Atrazine	0.400	0.421	-5.2	94	0.00
24		Pentachlorophenol	0.400	0.392	2.0	94	-0.01
25		Phenanthrene	0.400	0.435	-8.7	95	-0.01
26		Anthracene	0.400	0.429	-7.2	96	-0.01
27	SURR	Fluoranthene-d10	0.400	0.428	-7.0	93	0.00
28		Fluoranthene	0.400	0.429	-7.2	95	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	95	0.00
30		Pyrene	0.400	0.437	-9.2	95	0.00
31	S	Terphenyl-d14	0.400	0.421	-5.2	93	0.00
32		Benzo(a)anthracene	0.400	0.390	2.5	89	0.00
33		Chrysene	0.400	0.445	-11.2	99	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.423	-5.7	95	0.00
35	I	Perylene-d12	0.400	0.400	0.0	95	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.419	-4.7	93	-0.01
37		Benzo(b)fluoranthene	0.400	0.436	-9.0	97	0.00
38		Benzo(k)fluoranthene	0.400	0.430	-7.5	96	0.00
39	C	Benzo(a)pyrene	0.400	0.440	-10.0	98	0.00
40		Dibenzo(a,h)anthracene	0.400	0.409	-2.2	94	-0.01
41		Benzo(g,h,i)perylene	0.400	0.424	-6.0	94	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 19:08

Lab File ID: BN036666.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	0.595		0.0	50.0
Fluoranthene-d10	1.025	1.103		7.6	50.0
2-Fluorophenol	0.932	0.954		2.4	50.0
Phenol-d6	1.152	1.135		-1.5	50.0
Nitrobenzene-d5	0.435	0.398		-8.5	50.0
2-Fluorobiphenyl	2.327	2.343		0.7	50.0
2,4,6-Tribromophenol	0.182	0.187		2.7	50.0
Terphenyl-d14	0.958	0.991		3.4	50.0
1,4-Dioxane	0.444	0.534		20.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 18 00:55:25 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 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	1400	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	3548	0.400	ng		-0.01
13) Acenaphthene-d10	14.356	164	2067	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	4004	0.400	ng		#-0.01
29) Chrysene-d12	21.295	240	2784	0.400	ng		0.00
35) Perylene-d12	23.549	264	2401	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	1336	0.409	ng		0.00
5) Phenol-d6	6.887	99	1589	0.394	ng		-0.01
8) Nitrobenzene-d5	8.865	82	1411	0.366	ng		-0.01
11) 2-Methylnaphthalene-d10	12.101	152	2112	0.400	ng		-0.01
14) 2,4,6-Tribromophenol	15.858	330	387	0.413	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	4842	0.403	ng		0.00
27) Fluoranthene-d10	19.136	212	4416	0.430	ng		0.00
31) Terphenyl-d14	19.740	244	2760	0.414	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	747	0.481	ng		97
3) n-Nitrosodimethylamine	3.550	42	1500	0.477	ng		88
6) bis(2-Chloroethyl)ether	7.139	93	1583	0.380	ng		98
9) Naphthalene	10.552	128	4134	0.396	ng		98
10) Hexachlorobutadiene	10.840	225	1029	0.419	ng	#	98
12) 2-Methylnaphthalene	12.172	142	2633	0.396	ng		95
16) Acenaphthylene	14.078	152	4009	0.411	ng		100
17) Acenaphthene	14.420	154	2697	0.422	ng		99
18) Fluorene	15.403	166	3637	0.421	ng		99
20) 4,6-Dinitro-2-methylph...	15.499	198	285	0.424	ng		94
21) 4-Bromophenyl-phenylether	16.305	248	1057	0.421	ng	#	83
22) Hexachlorobenzene	16.416	284	1345	0.444	ng		94
23) Atrazine	16.578	200	916	0.455	ng		97
24) Pentachlorophenol	16.764	266	582	0.421	ng		97
25) Phenanthrene	17.136	178	5204	0.433	ng		99
26) Anthracene	17.235	178	4660	0.430	ng		99
28) Fluoranthene	19.164	202	5887	0.436	ng		98
30) Pyrene	19.527	202	5967	0.438	ng		100
32) Benzo(a)anthracene	21.277	228	3762	0.389	ng		99
33) Chrysene	21.331	228	4705	0.445	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3084	0.447	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.826	276	3581	0.413	ng	#	94
37) Benzo(b)fluoranthene	22.870	252	3818m	0.437	ng		
38) Benzo(k)fluoranthene	22.914	252	4020m	0.439	ng		
39) Benzo(a)pyrene	23.449	252	3280	0.446	ng	#	87
40) Dibenzo(a,h)anthracene	25.849	278	2826	0.419	ng		95
41) Benzo(g,h,i)perylene	26.519	276	3263	0.423	ng		99

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

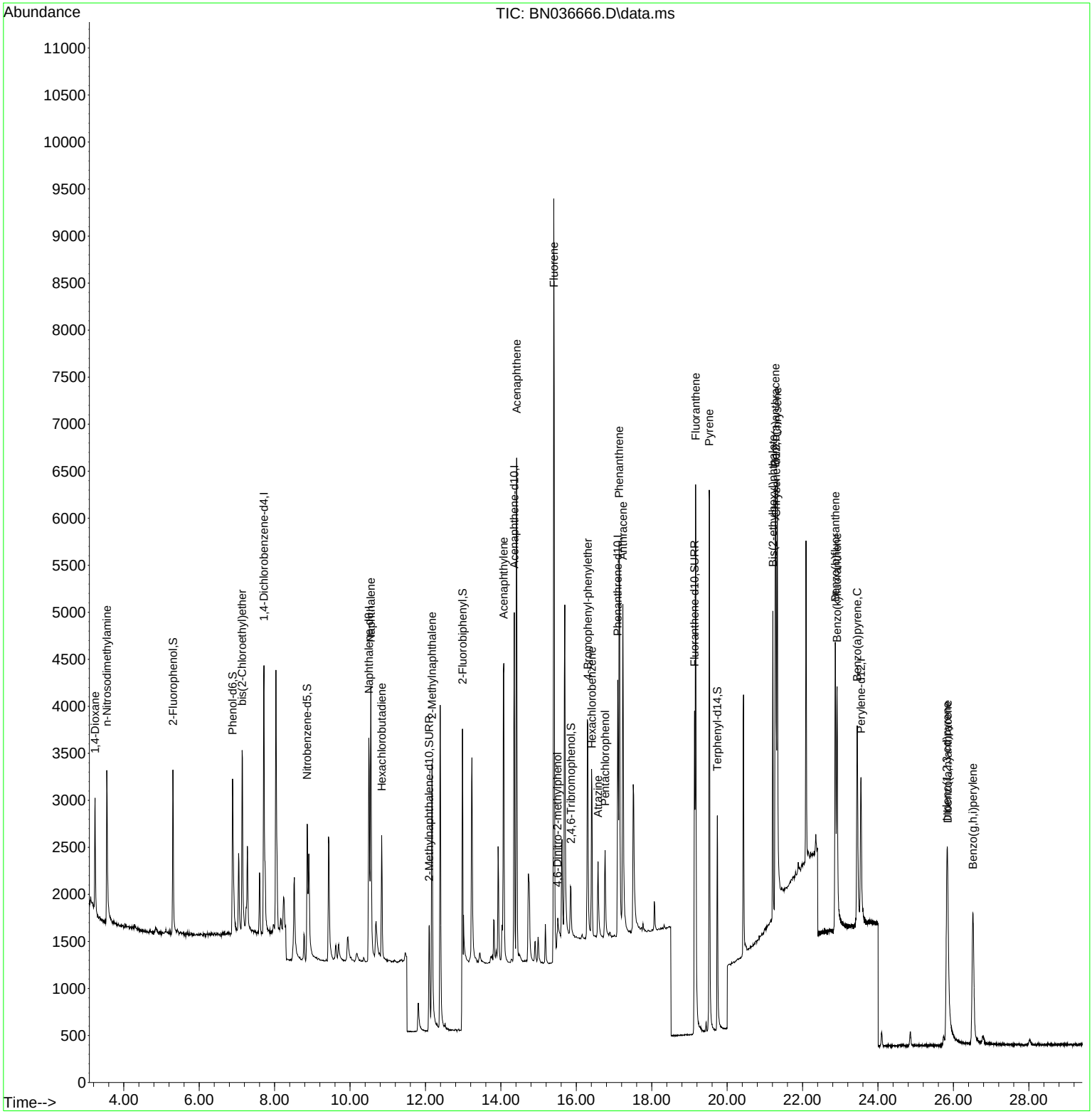
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Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

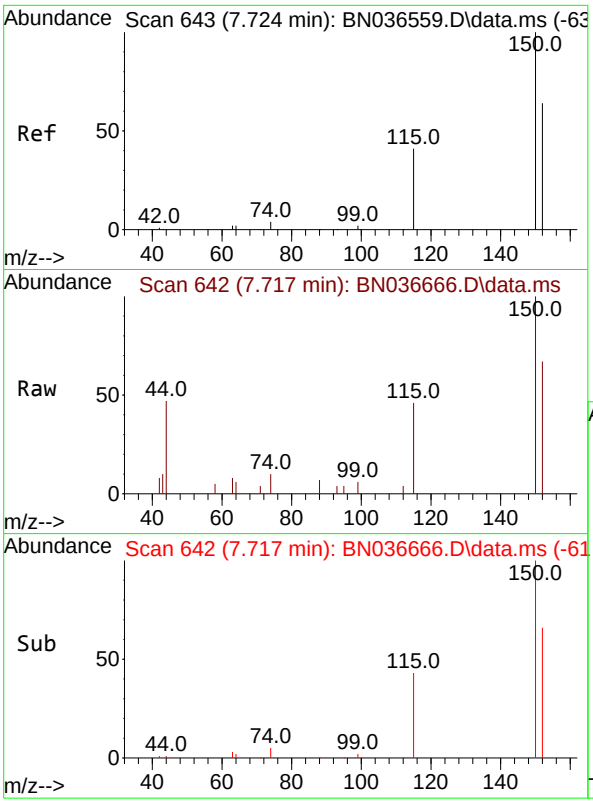
Quant Time: Mar 18 00:55:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

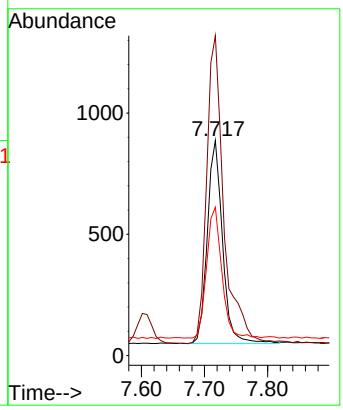




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:152 Resp: 140

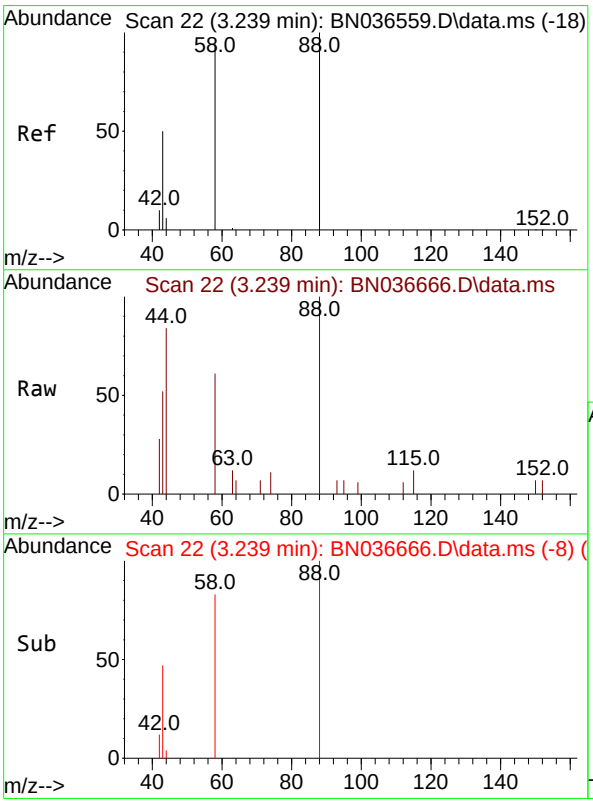
Ion	Ratio	Lower	Upper
152	100		
150	148.7	123.7	185.5
115	69.0	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

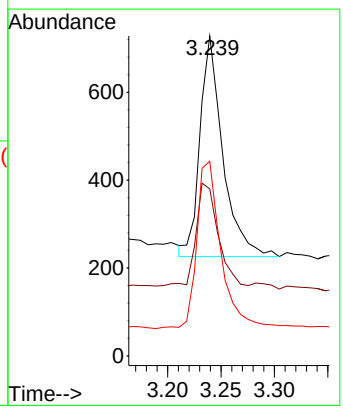
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

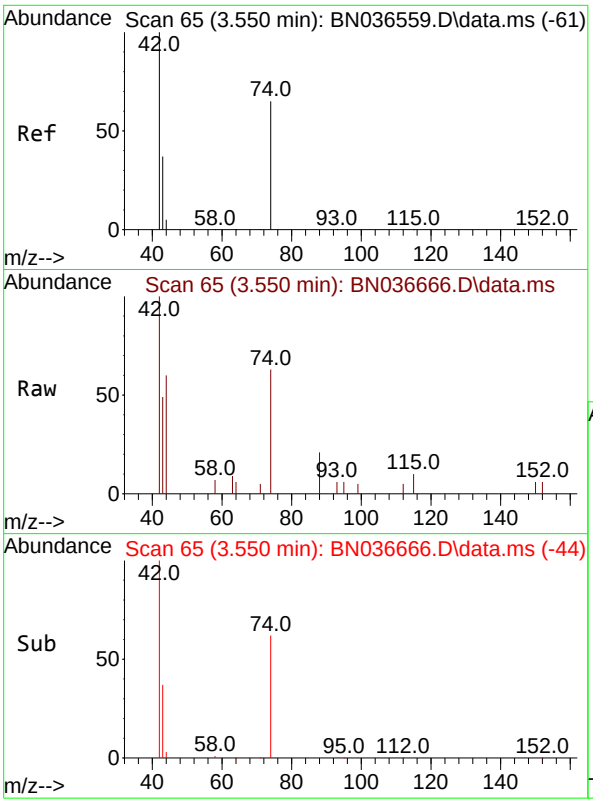


#2
1,4-Dioxane
Concen: 0.481 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 88 Resp: 747

Ion	Ratio	Lower	Upper
88	100		
43	46.2	37.8	56.8
58	80.9	67.4	101.2

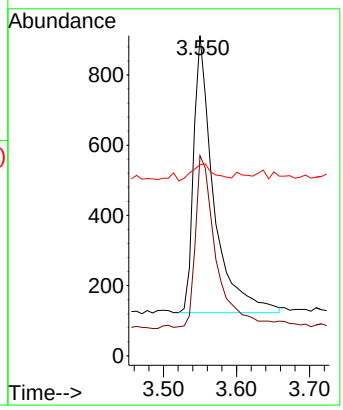




#3
n-Nitrosodimethylamine
Concen: 0.477 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 42 Resp: 150

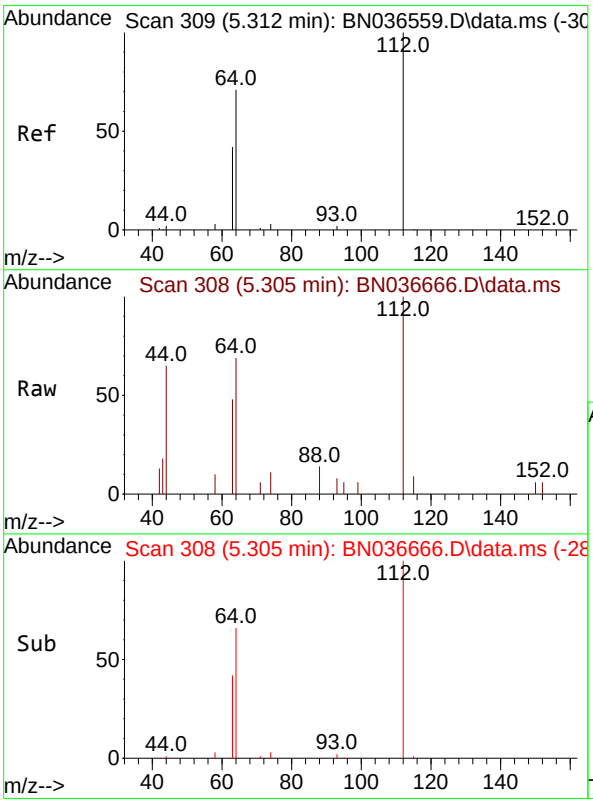
Ion	Ratio	Lower	Upper
42	100		
74	65.0	60.6	90.8
44	6.9	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

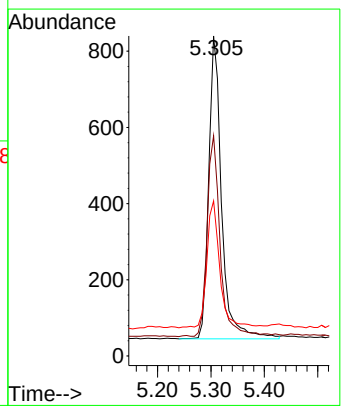
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

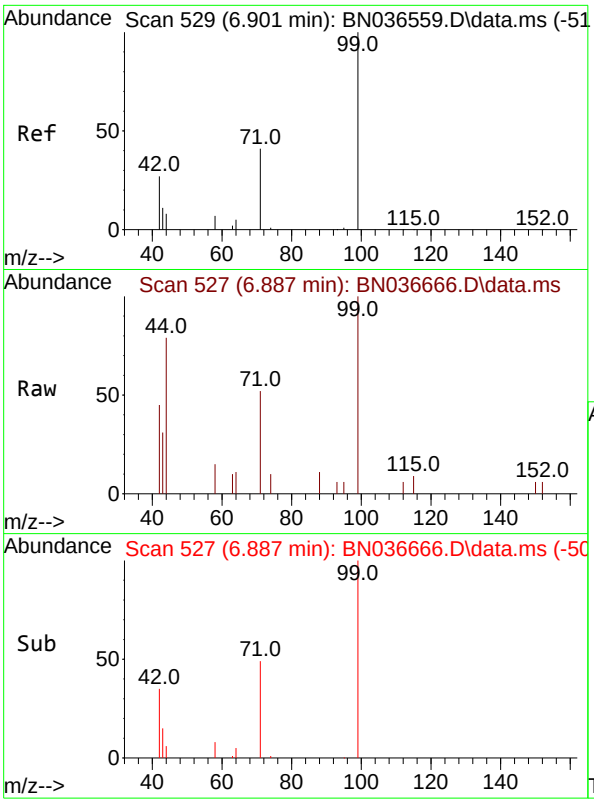


#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:112 Resp: 1336

Ion	Ratio	Lower	Upper
112	100		
64	68.0	53.1	79.7
63	43.6	31.8	47.8

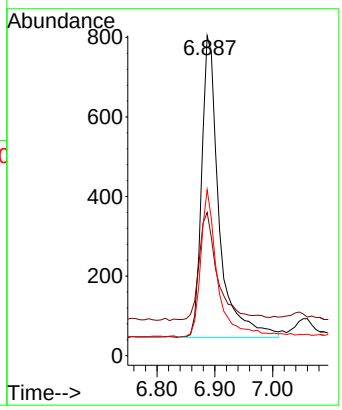




#5
Phenol-d6
Concen: 0.394 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 99 Resp: 158

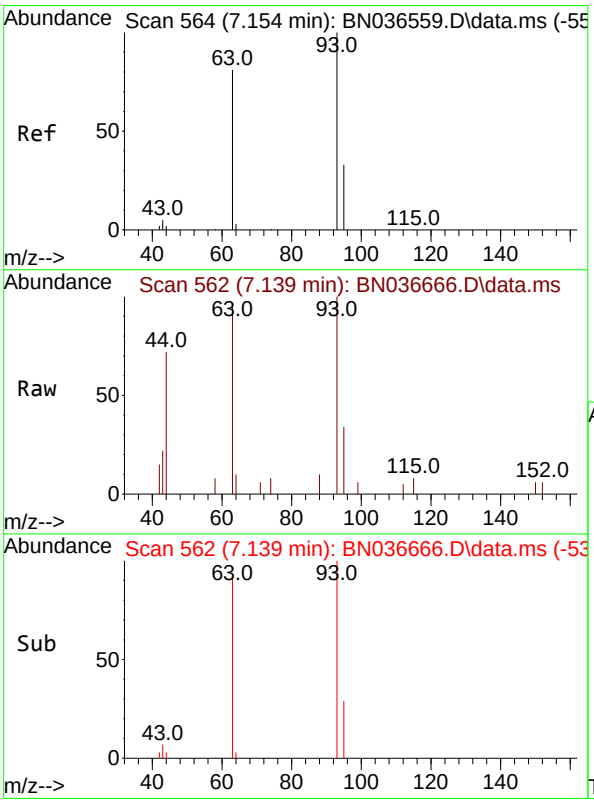
Ion	Ratio	Lower	Upper
99	100		
42	39.2	26.5	39.7
71	48.1	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

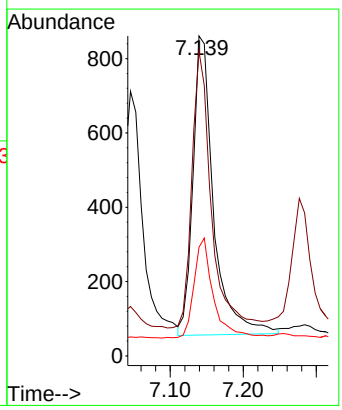
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

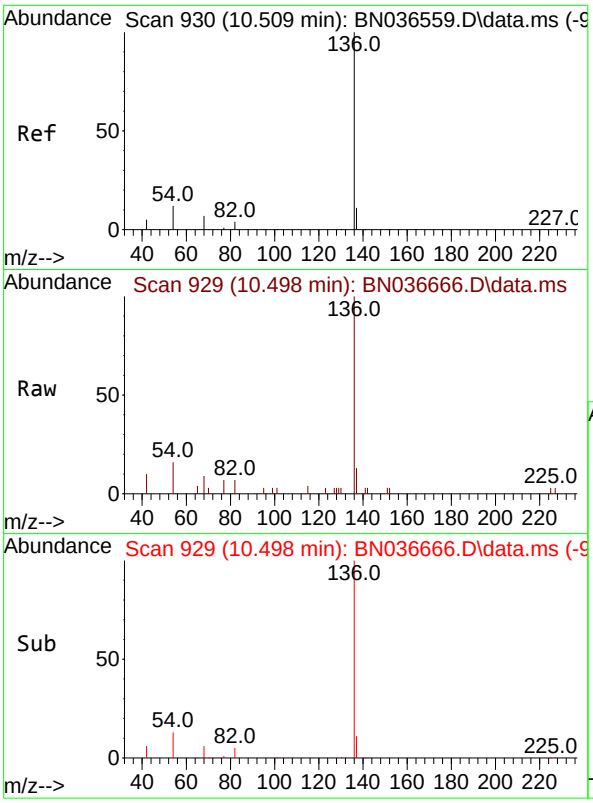


#6
bis(2-Chloroethyl)ether
Concen: 0.380 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 93 Resp: 1583

Ion	Ratio	Lower	Upper
93	100		
63	86.4	67.7	101.5
95	31.5	25.6	38.4

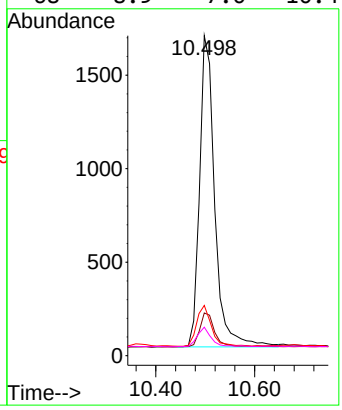




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:136 Resp: 354

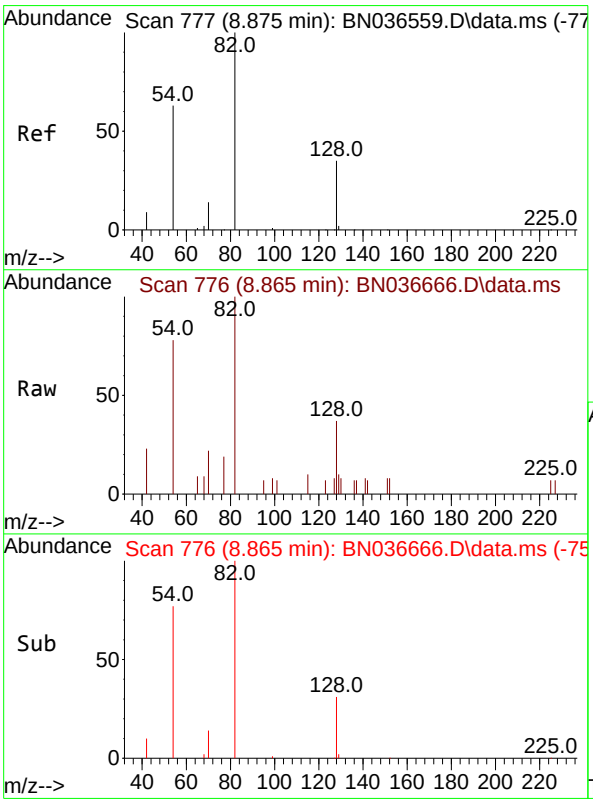
Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	15.7	11.5	17.3
68	8.9	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

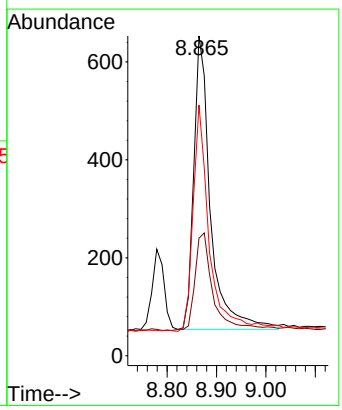
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

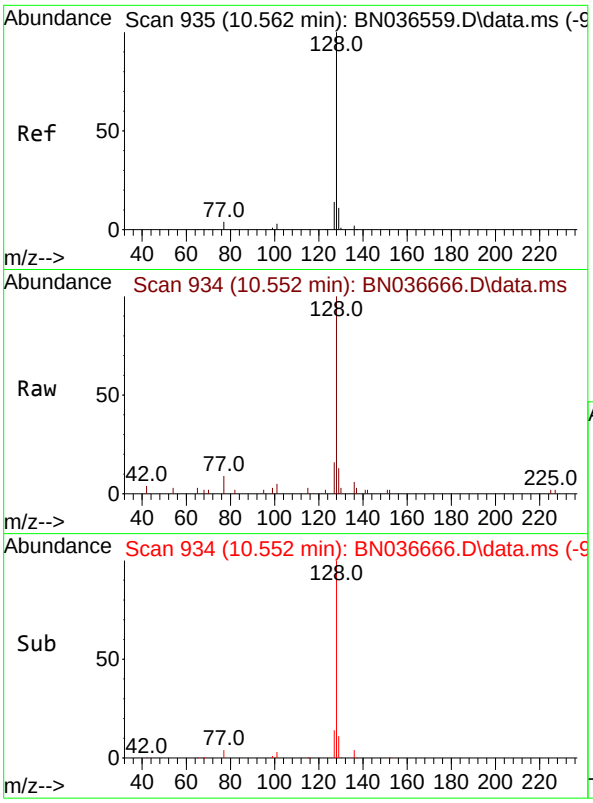


#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 82 Resp: 1411

Ion	Ratio	Lower	Upper
82	100		
128	36.8	30.6	45.8
54	78.4	52.2	78.4#

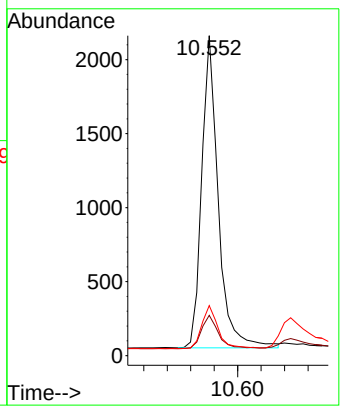




#9
Naphthalene
Concen: 0.396 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:128 Resp: 413

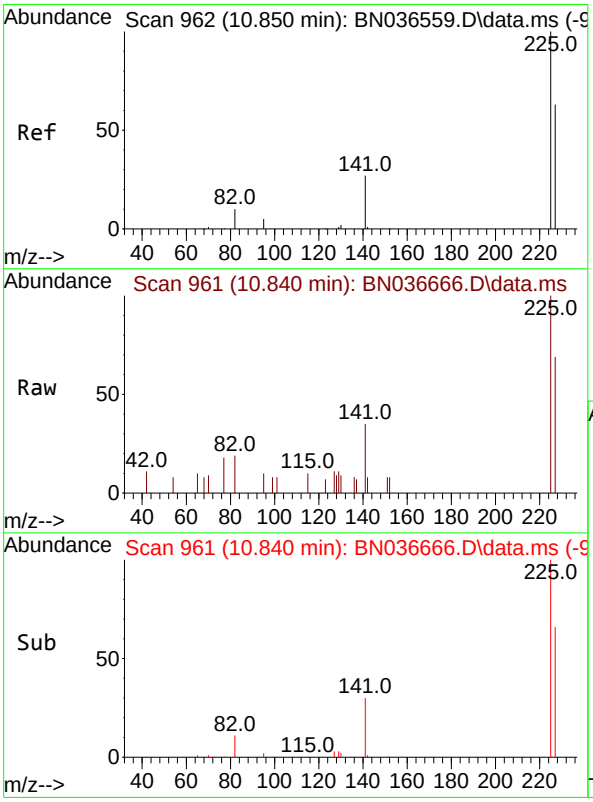
Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.8	14.6
127	15.6	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

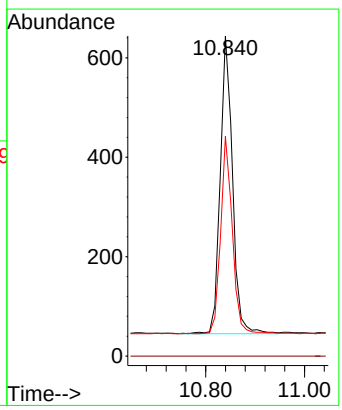
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

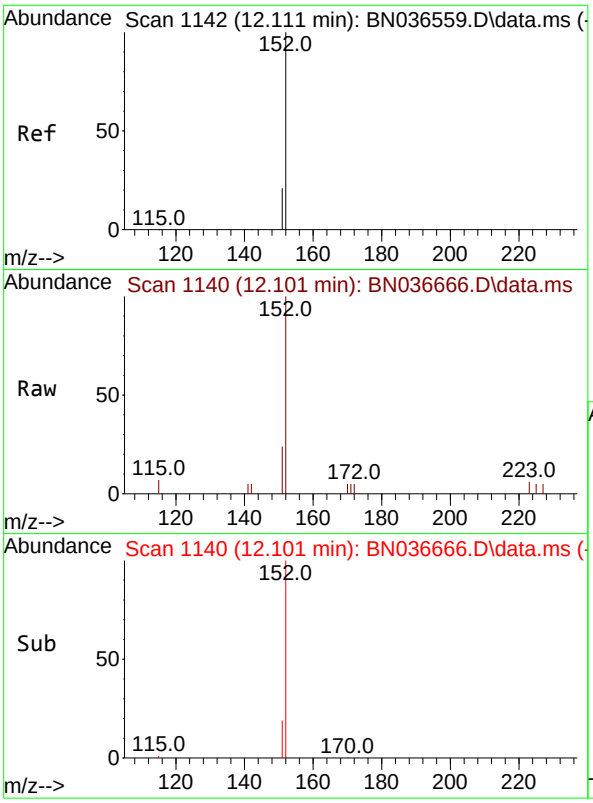


#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:225 Resp: 1029

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8

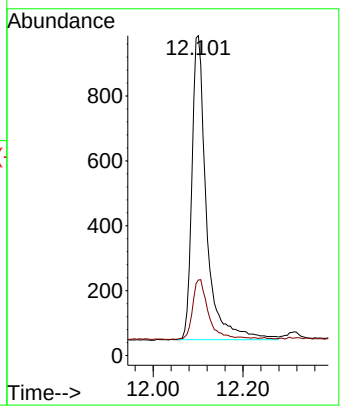




#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:152 Resp: 211

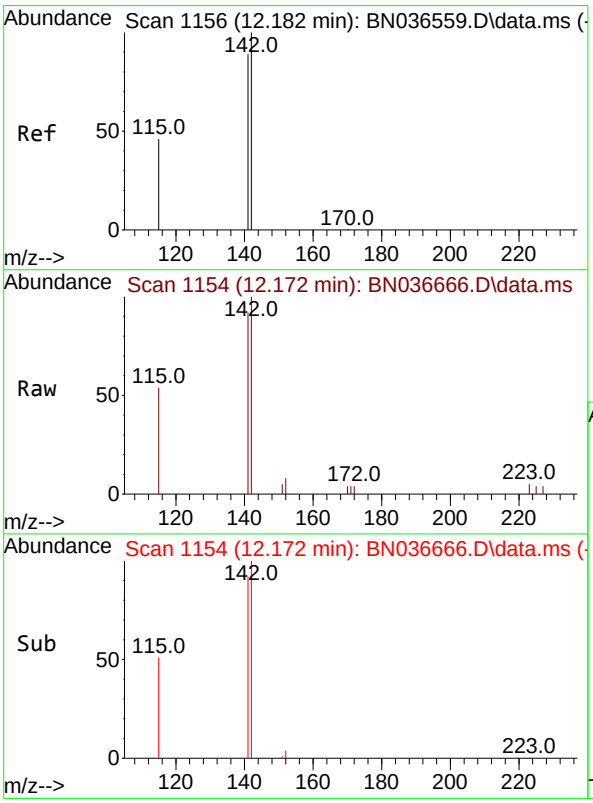
Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

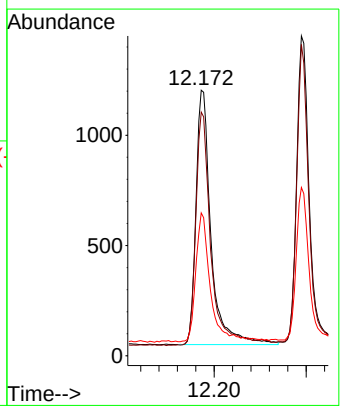
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

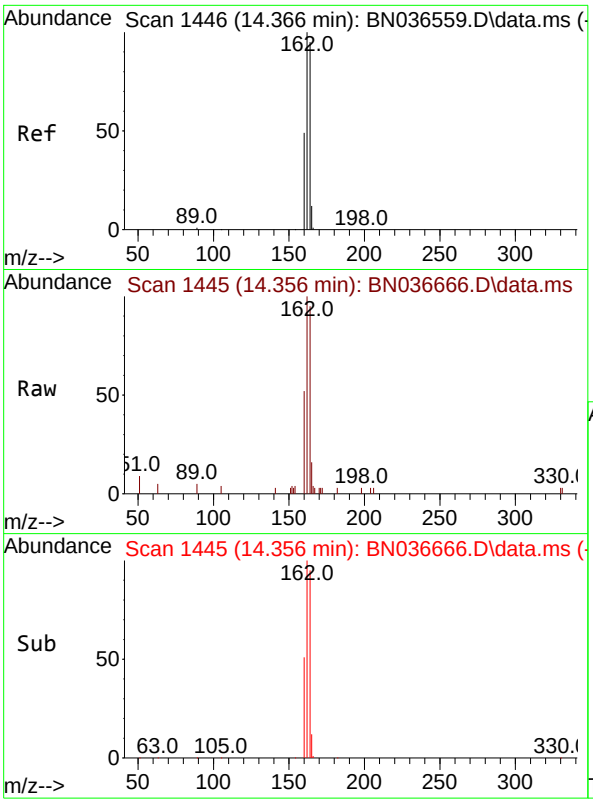


#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:142 Resp: 2633

Ion	Ratio	Lower	Upper
142	100		
141	91.8	71.7	107.5
115	53.8	38.3	57.5

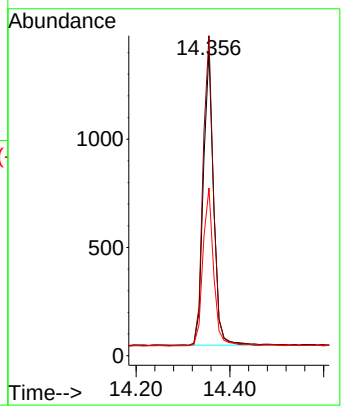




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:164 Resp: 206

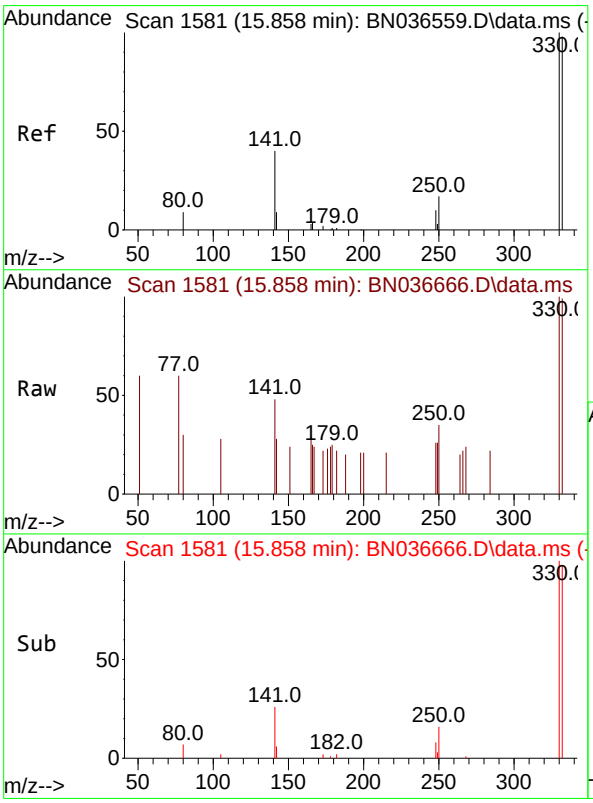
Ion	Ratio	Lower	Upper
164	100		
162	105.1	84.2	126.2
160	55.0	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

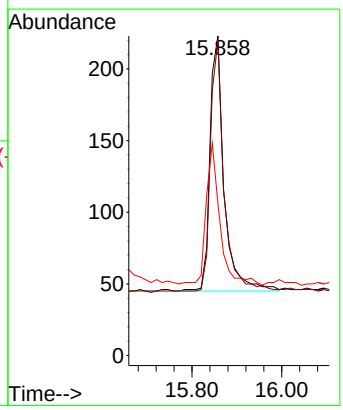
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

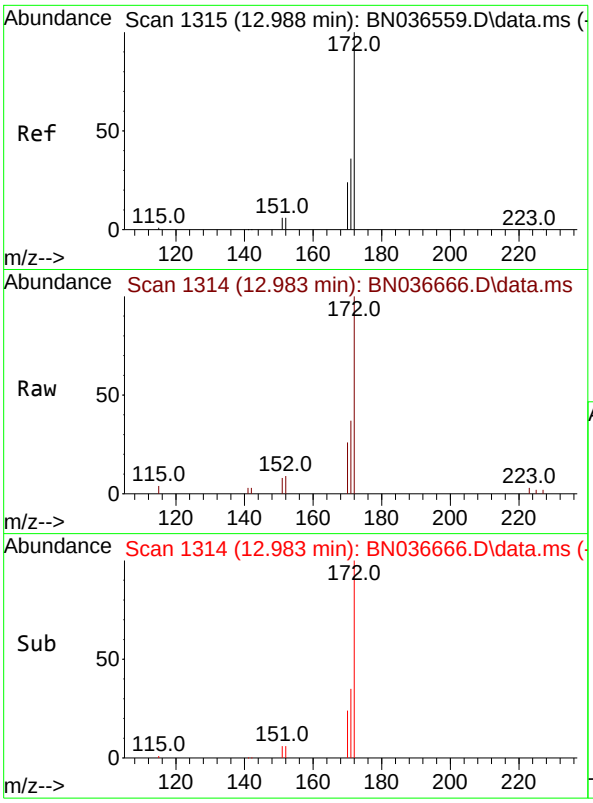


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:330 Resp: 387

Ion	Ratio	Lower	Upper
330	100		
332	94.1	75.2	112.8
141	54.8	43.4	65.2

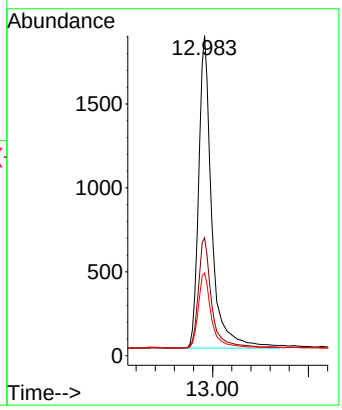




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:172 Resp: 484

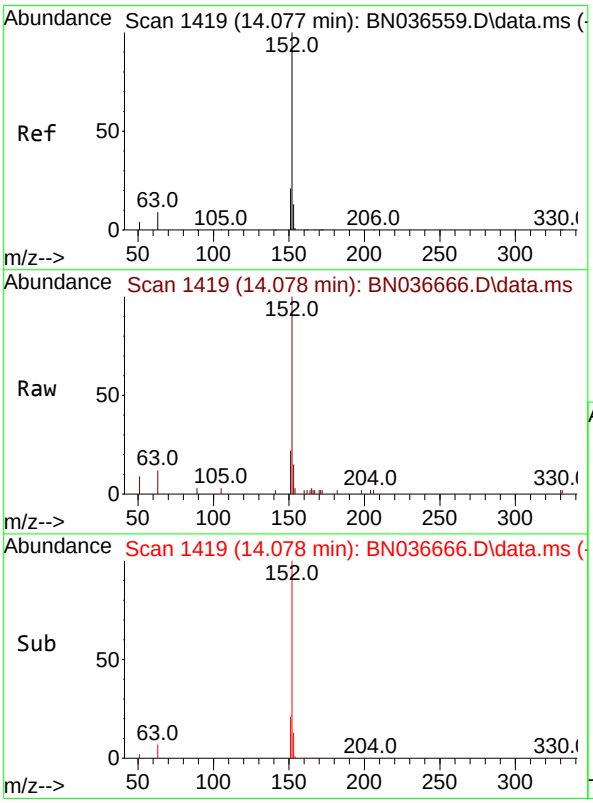
Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.5	44.3
170	25.9	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

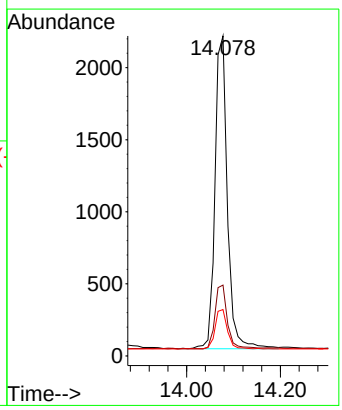
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

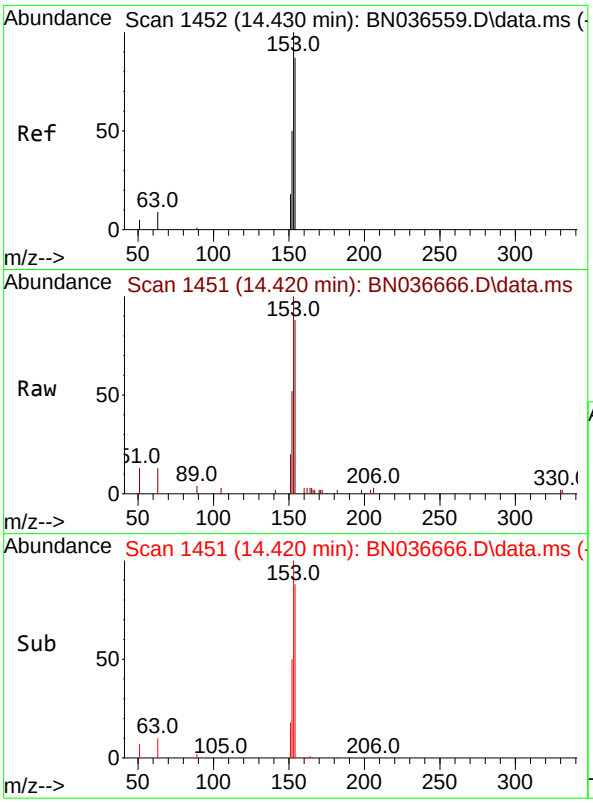


#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:152 Resp: 4009

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.0	10.6	15.8

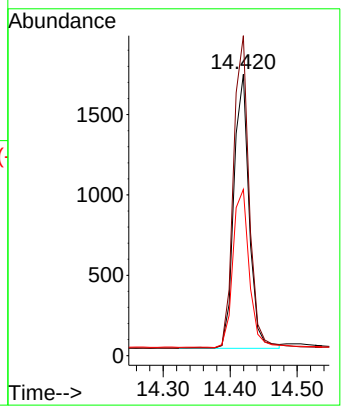




#17
Acenaphthene
Concen: 0.422 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:154 Resp: 269

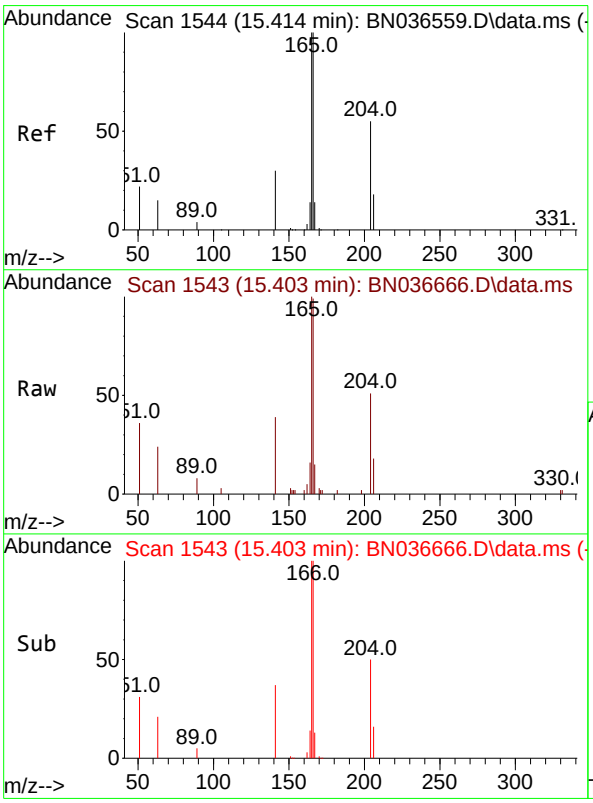
Ion	Ratio	Lower	Upper
154	100		
153	116.7	94.1	141.1
152	61.7	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

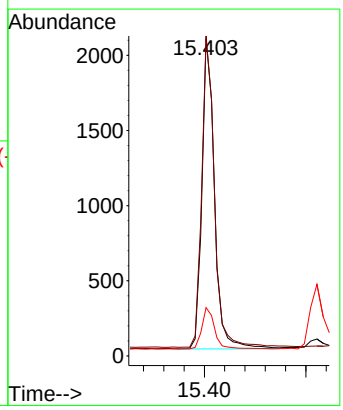
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

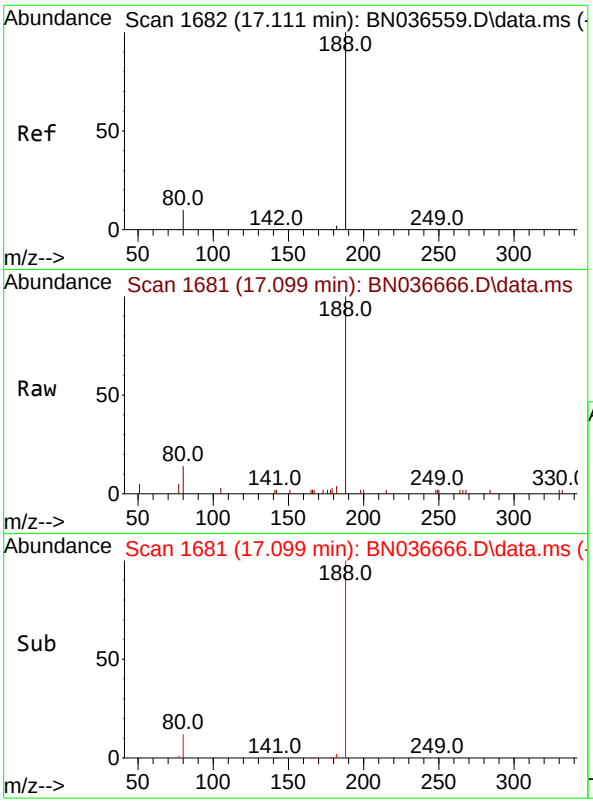


#18
Fluorene
Concen: 0.421 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:166 Resp: 3637

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.4	10.6	15.8

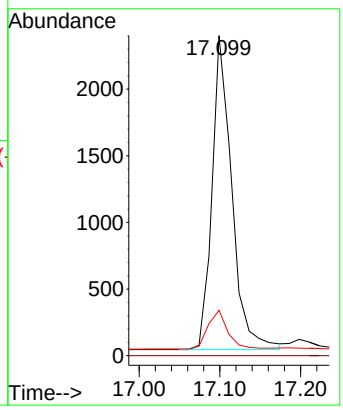




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:188 Resp: 400

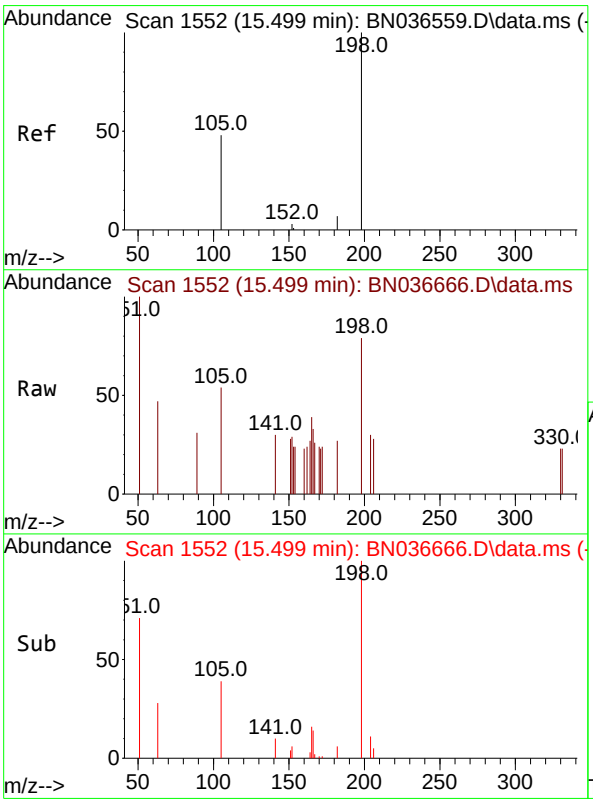
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.2	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

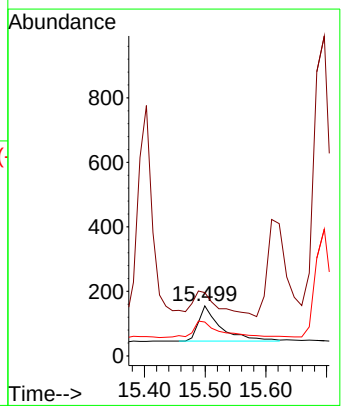
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

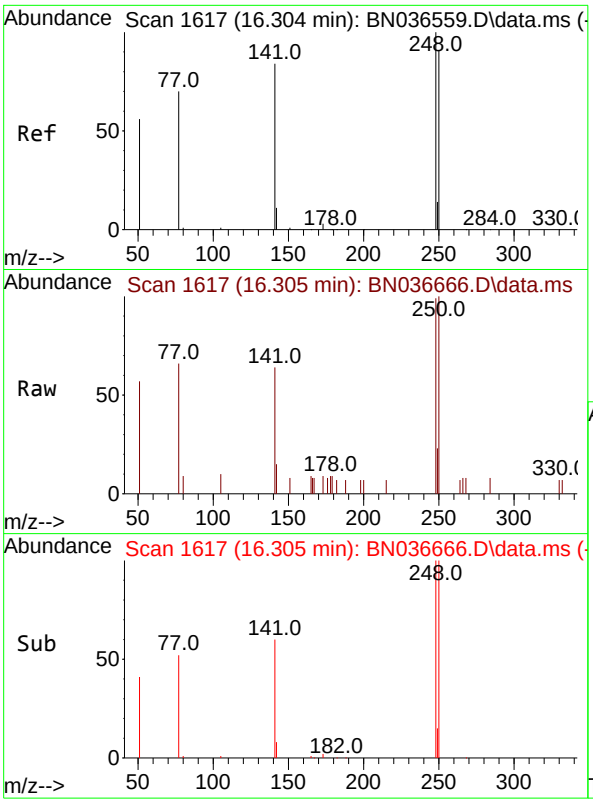


#20
4,6-Dinitro-2-methylphenol
Concen: 0.424 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:198 Resp: 285

Ion	Ratio	Lower	Upper
198	100		
51	126.5	107.9	161.9
105	67.7	56.2	84.2

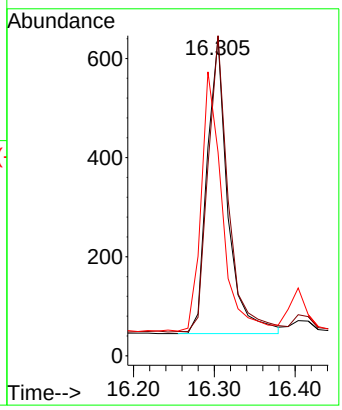




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:248 Resp: 105

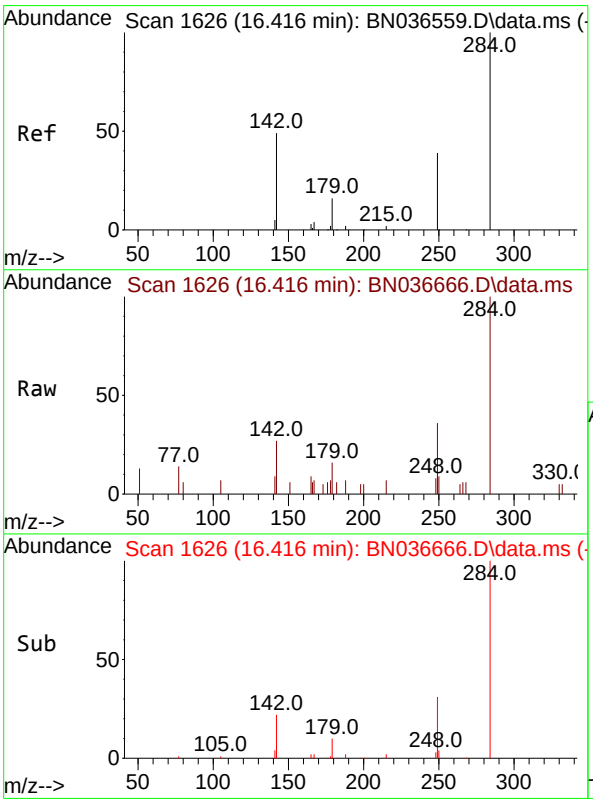
Ion	Ratio	Lower	Upper
248	100		
250	100.6	73.0	109.6
141	64.0	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

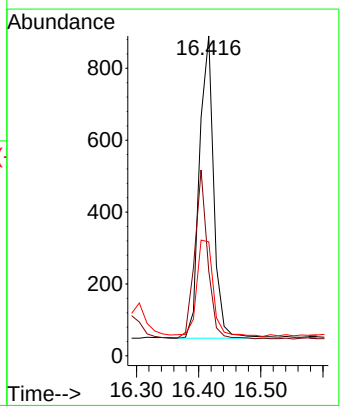
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

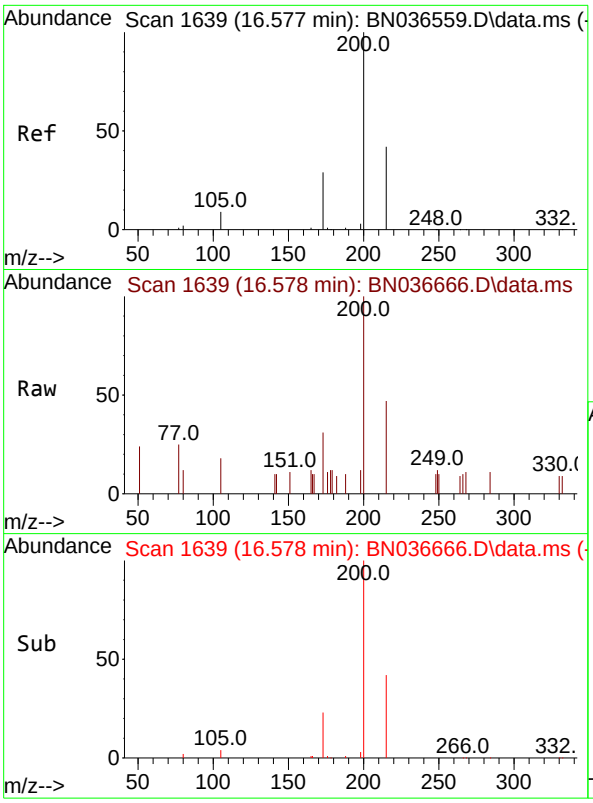


#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:284 Resp: 1345

Ion	Ratio	Lower	Upper
284	100		
142	50.9	37.0	55.4
249	37.2	28.1	42.1

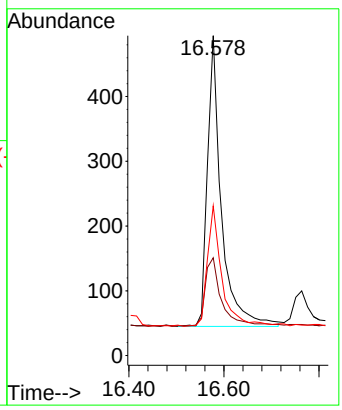




#23
Atrazine
Concen: 0.455 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:200 Resp: 91(

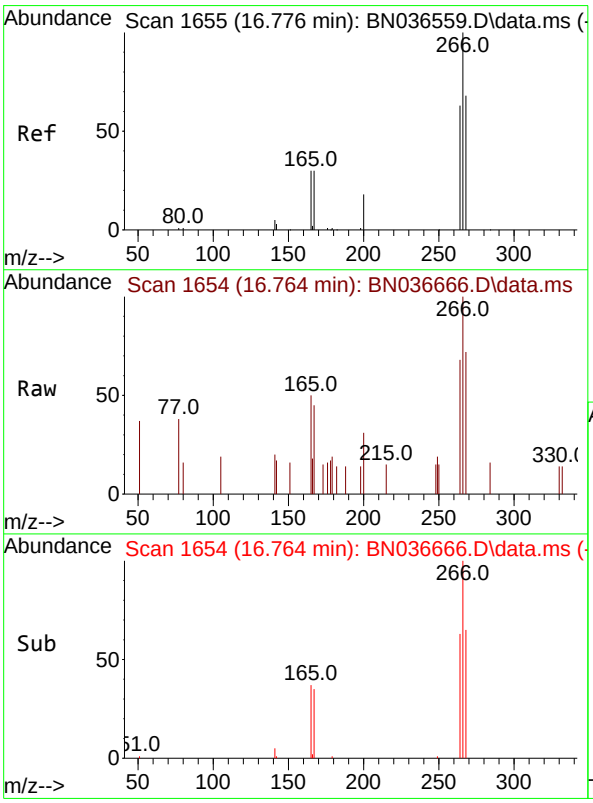
Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	46.8	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

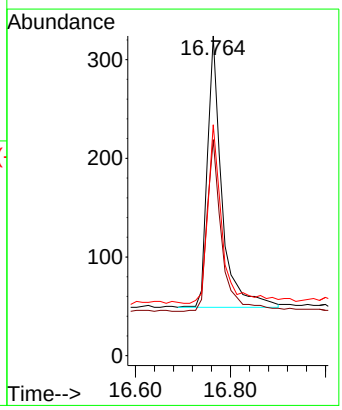
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

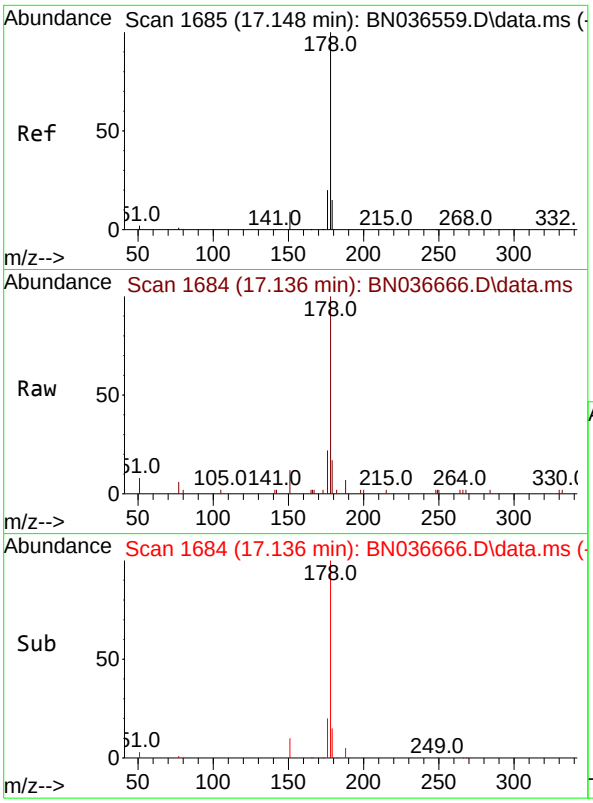


#24
Pentachlorophenol
Concen: 0.421 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:266 Resp: 582

Ion	Ratio	Lower	Upper
266	100		
264	64.6	49.6	74.4
268	65.5	50.9	76.3

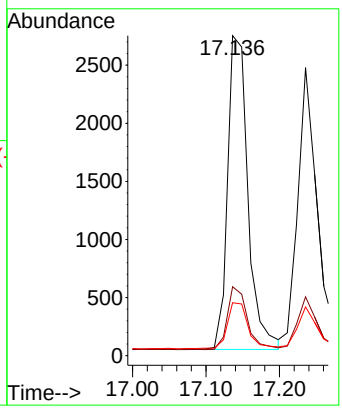




#25
Phenanthrene
Concen: 0.433 ng
RT: 17.136 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:178 Resp: 520

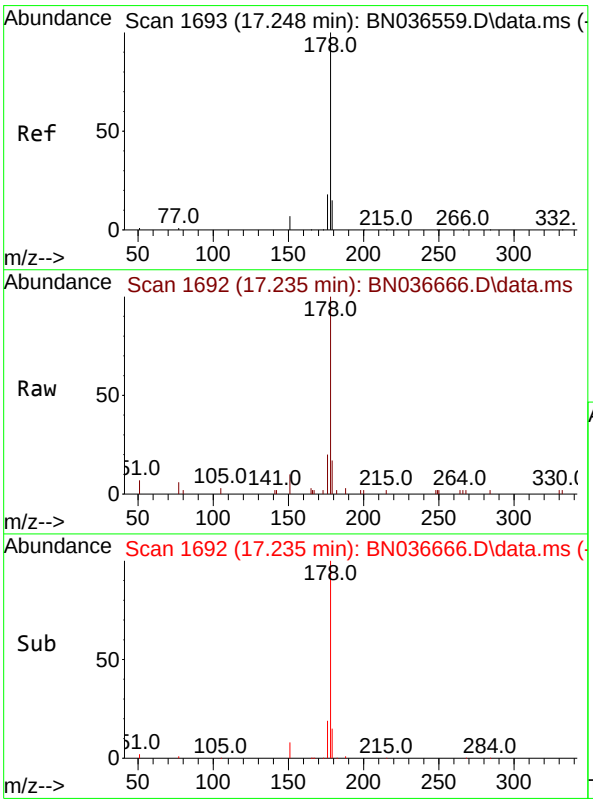
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	15.2	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

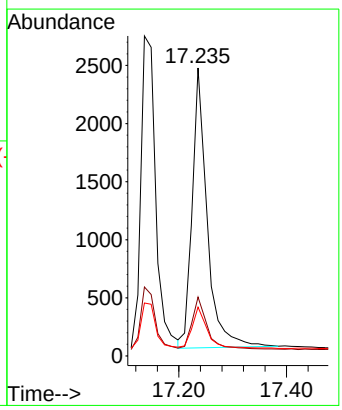
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

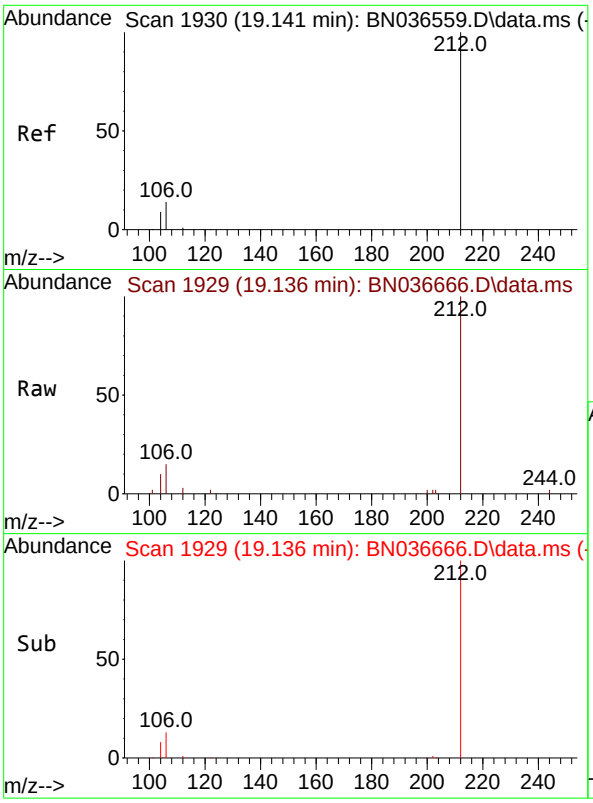


#26
Anthracene
Concen: 0.430 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:178 Resp: 4660

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.5	12.6	18.8

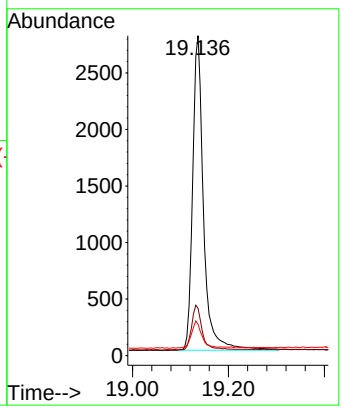




#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:212 Resp: 441

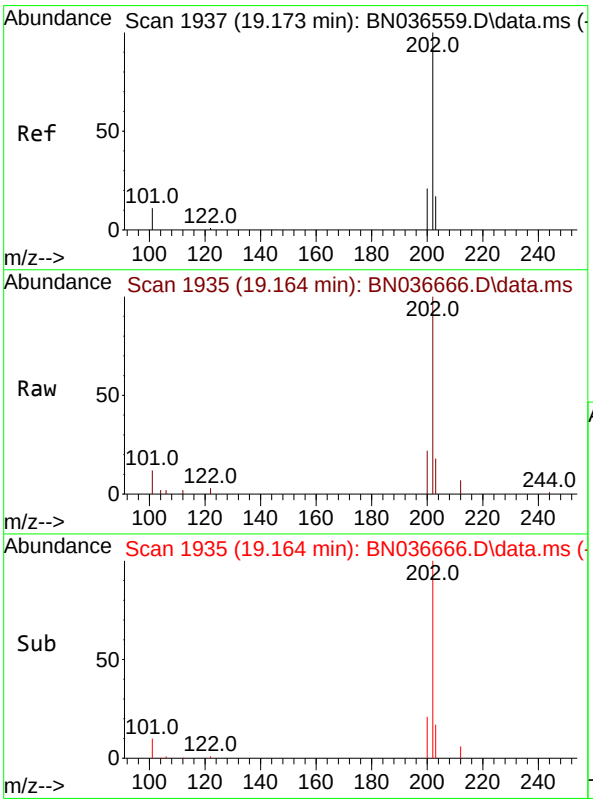
Ion	Ratio	Lower	Upper
212	100		
106	13.7	11.8	17.6
104	8.0	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

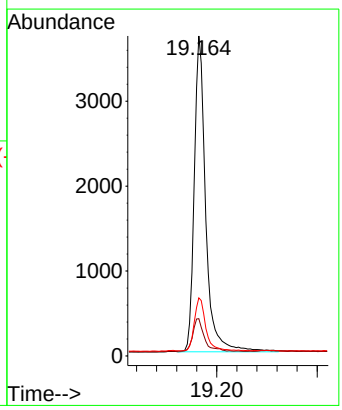
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

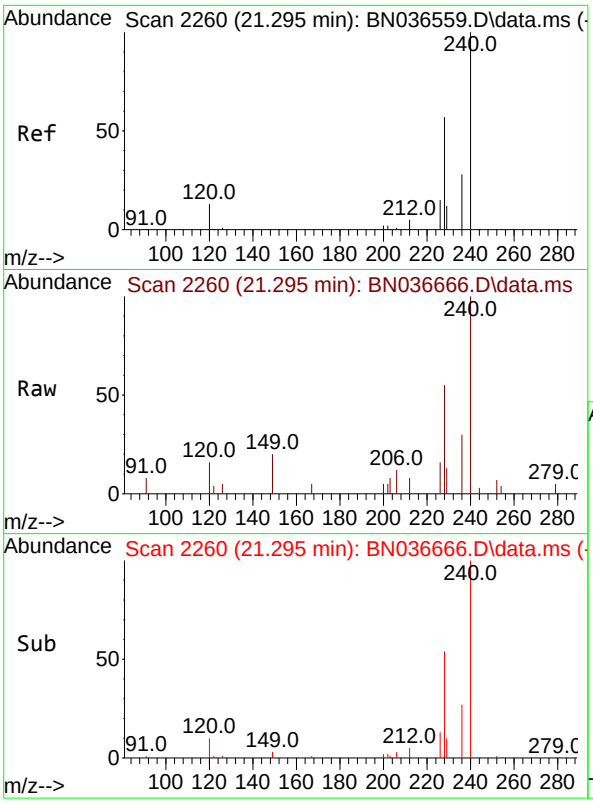


#28
Fluoranthene
Concen: 0.436 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:202 Resp: 5887

Ion	Ratio	Lower	Upper
202	100		
101	10.5	9.4	14.0
203	16.6	13.5	20.3

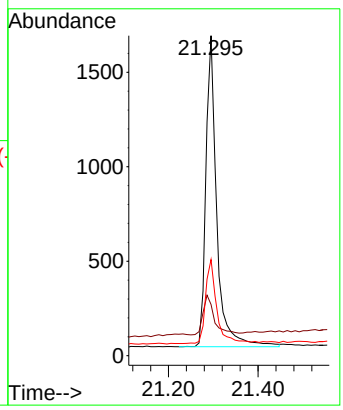




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:240 Resp: 278

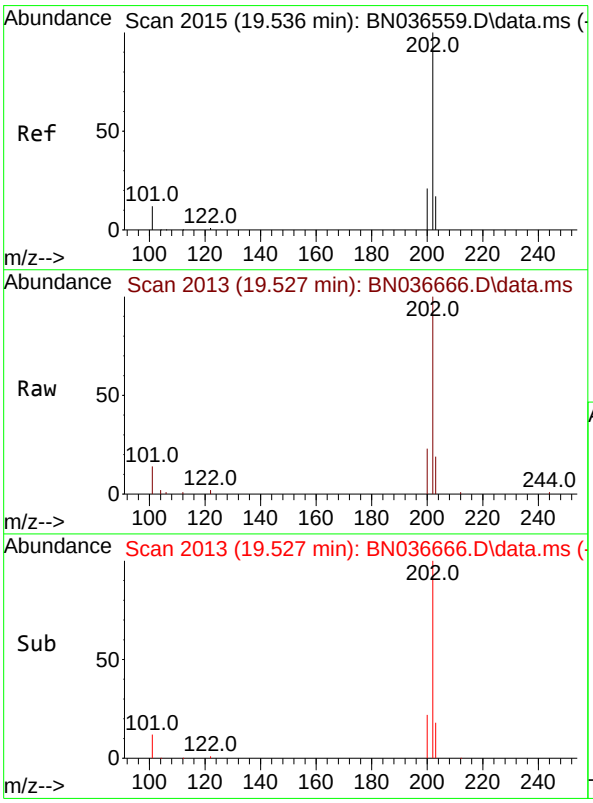
Ion	Ratio	Lower	Upper
240	100		
120	16.0	14.6	22.0
236	30.0	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

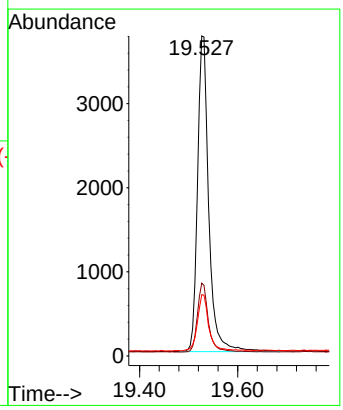
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

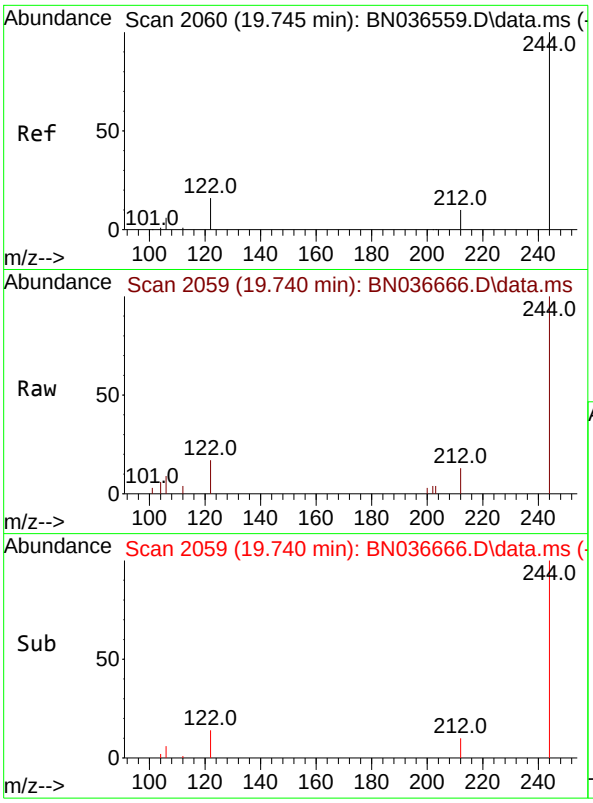


#30
Pyrene
Concen: 0.438 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:202 Resp: 5967

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.8	14.1	21.1

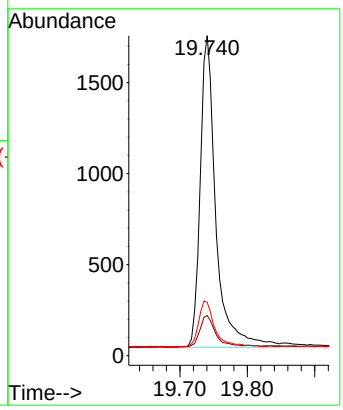




#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:244 Resp: 276

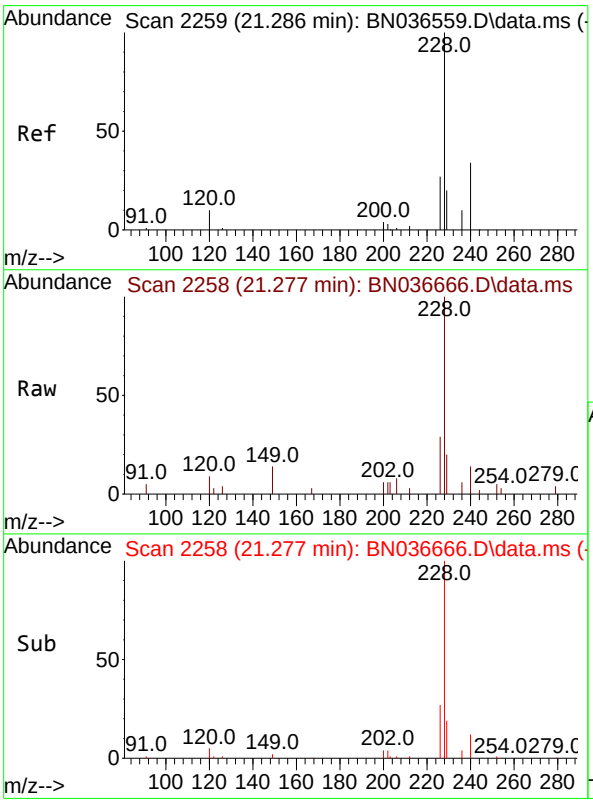
Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.6	14.4
122	16.7	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

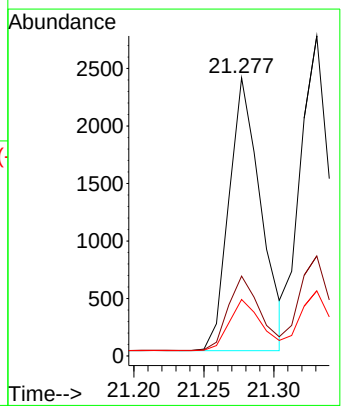
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

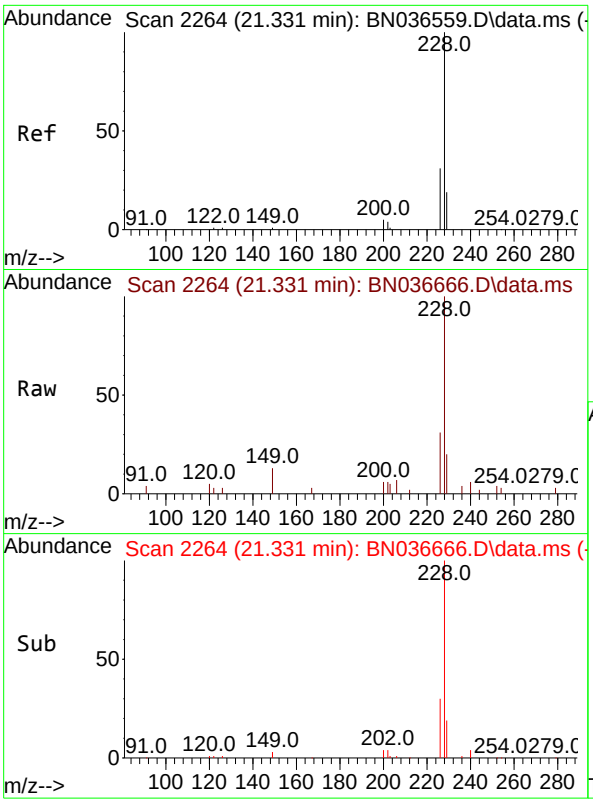


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:228 Resp: 3762

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	20.3	16.6	25.0

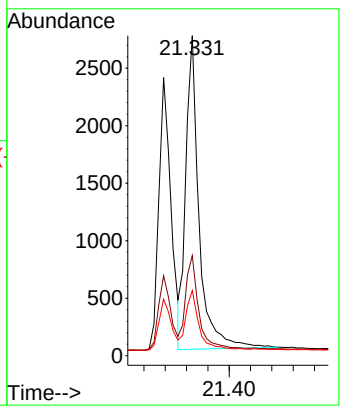




#33
Chrysene
Concen: 0.445 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:228 Resp: 470

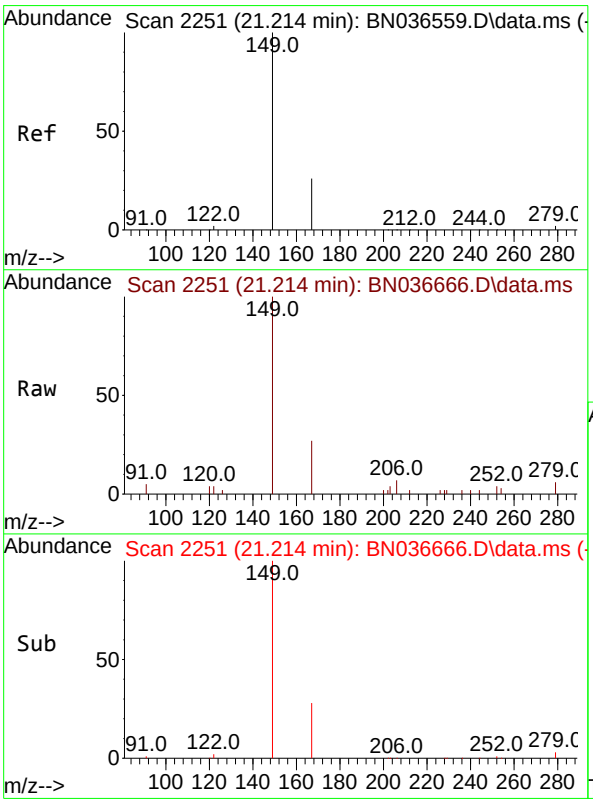
Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.3	37.9
229	20.4	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

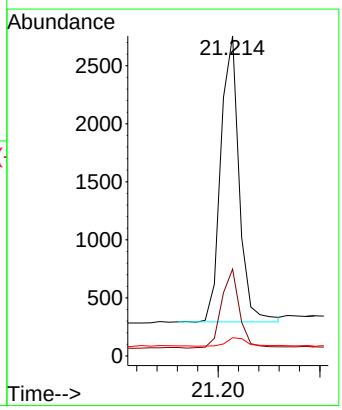
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

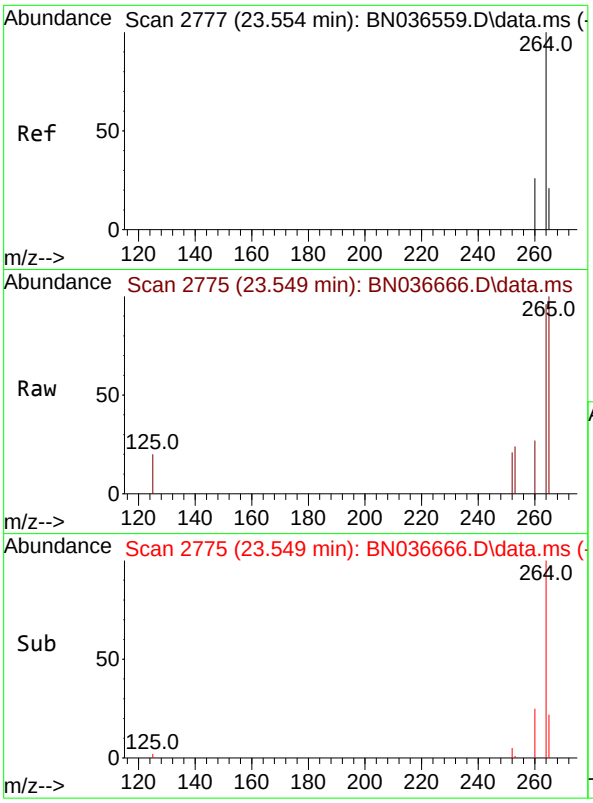


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.447 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:149 Resp: 3084

Ion	Ratio	Lower	Upper
149	100		
167	27.0	20.7	31.1
279	3.5	3.6	5.4#

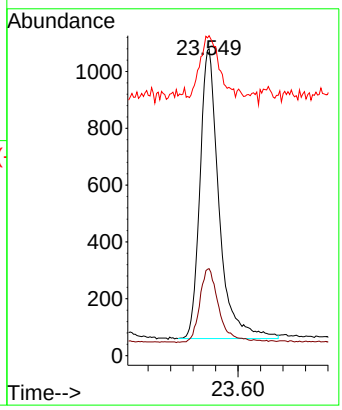




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.549 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:264 Resp: 240

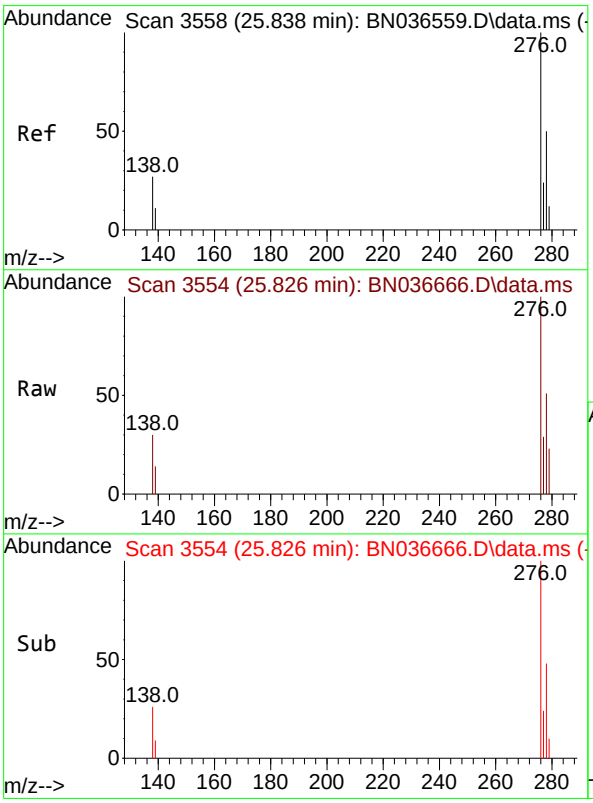
Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.6	33.8
265	104.3	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

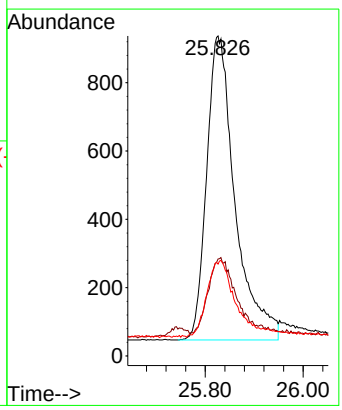
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

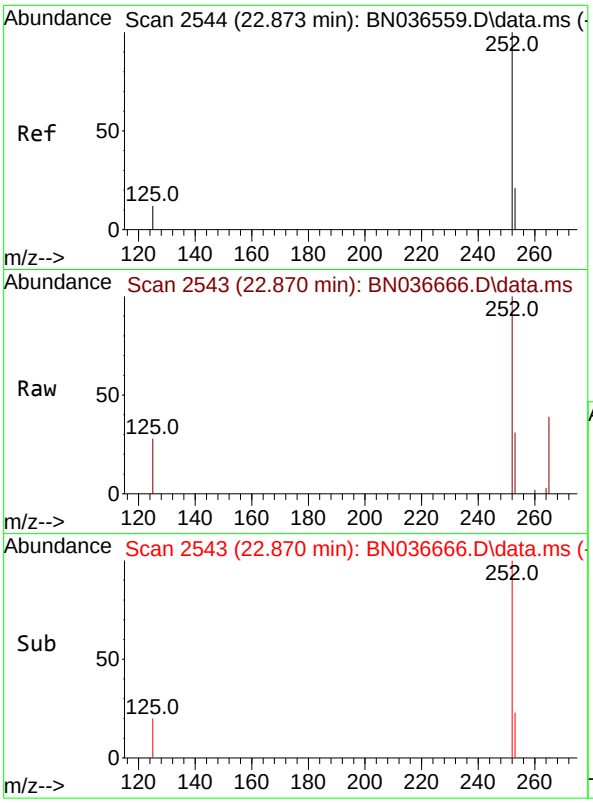


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.413 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:276 Resp: 3581

Ion	Ratio	Lower	Upper
276	100		
138	23.3	23.4	35.2#
277	25.1	20.0	30.0

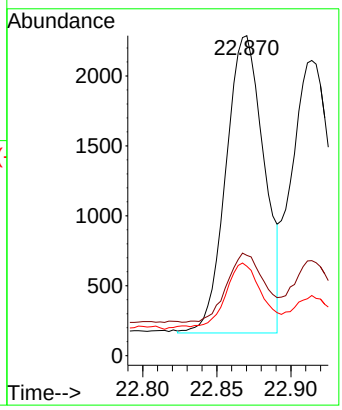




#37
Benzo(b)fluoranthene
Concen: 0.437 ng m
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:252 Resp: 381

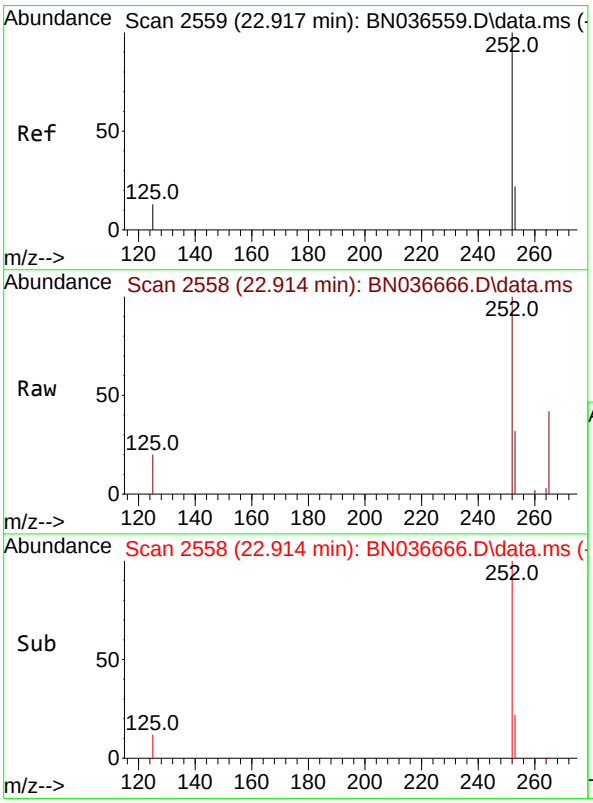
Ion	Ratio	Lower	Upper
252	100		
253	31.3	23.9	35.9
125	27.9	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

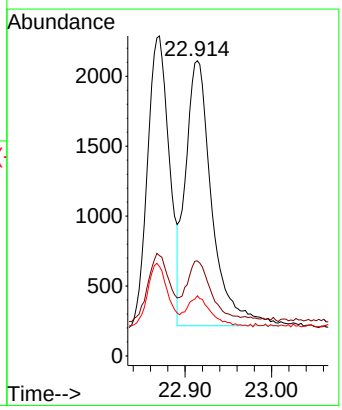
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

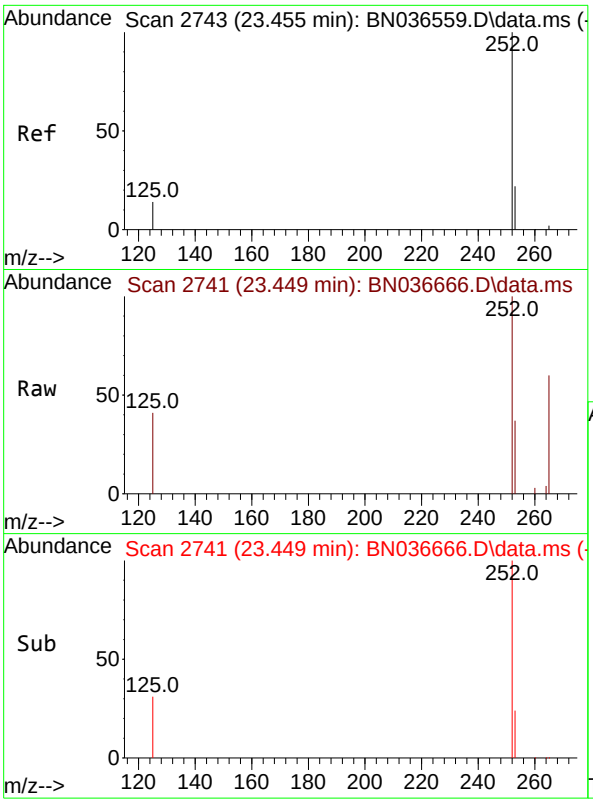


#38
Benzo(k)fluoranthene
Concen: 0.439 ng m
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:252 Resp: 4020

Ion	Ratio	Lower	Upper
252	100		
253	32.2	24.6	36.8
125	20.4	17.8	26.8

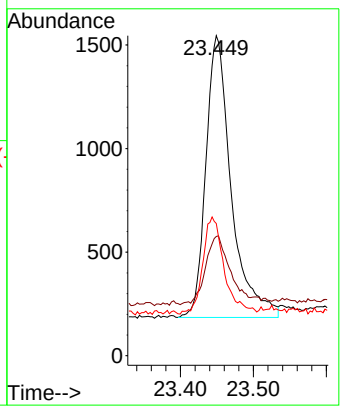




#39
Benzo(a)pyrene
Concen: 0.446 ng
RT: 23.449 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:252 Resp: 328

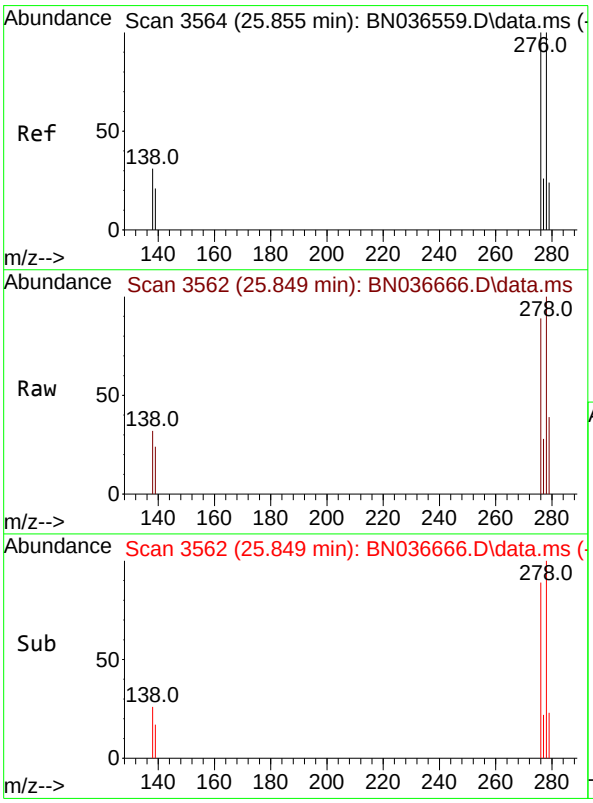
Ion	Ratio	Lower	Upper
252	100		
253	37.3	27.8	41.8
125	41.3	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

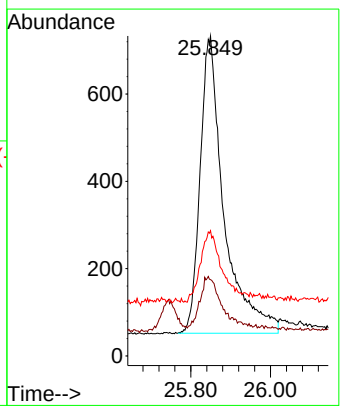
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

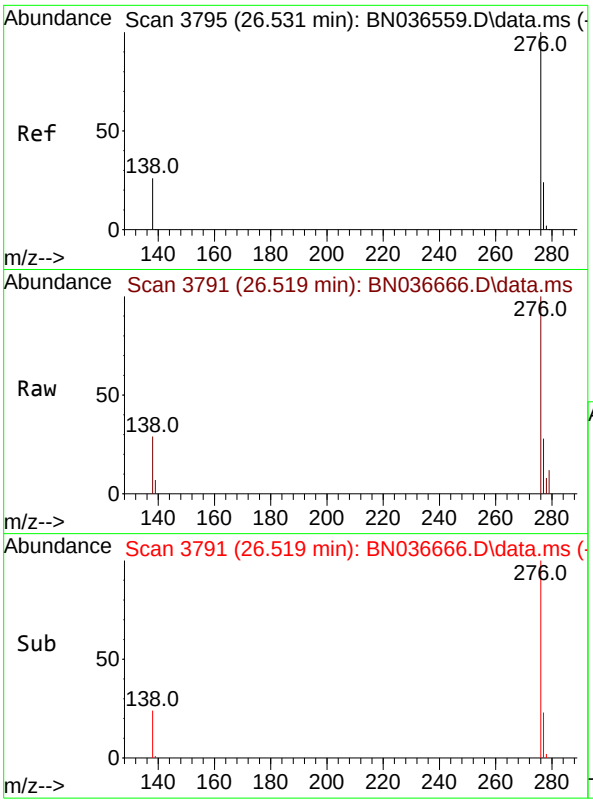


#40
Dibenzo(a,h)anthracene
Concen: 0.419 ng
RT: 25.849 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:278 Resp: 2826

Ion	Ratio	Lower	Upper
278	100		
139	23.9	20.8	31.2
279	39.2	28.8	43.2

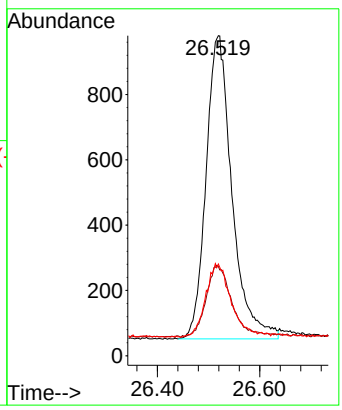




#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 26.519 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:276 Resp: 326

Ion	Ratio	Lower	Upper
276	100		
277	27.9	22.2	33.4
138	28.7	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:25 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	63	0.00
2		1,4-Dioxane	0.444	0.534	-20.3	68	0.00
3		n-Nitrosodimethylamine	0.898	1.071	-19.3	73	0.00
4	S	2-Fluorophenol	0.932	0.954	-2.4	61	0.00
5	S	Phenol-d6	1.152	1.135	1.5	64	-0.01
6		bis(2-Chloroethyl)ether	1.190	1.131	5.0	61	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	70	-0.01
8	S	Nitrobenzene-d5	0.435	0.398	8.5	67	-0.01
9		Naphthalene	1.177	1.165	1.0	67	-0.01
10		Hexachlorobutadiene	0.277	0.290	-4.7	69	-0.01
11	SURR	2-Methylnaphthalene-d10	0.595	0.595	0.0	68	-0.01
12		2-Methylnaphthalene	0.749	0.742	0.9	68	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	68	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.187	-2.7	68	0.00
15	S	2-Fluorobiphenyl	2.327	2.343	-0.7	67	0.00
16		Acenaphthylene	1.888	1.940	-2.8	68	0.00
17		Acenaphthene	1.236	1.305	-5.6	70	-0.01
18		Fluorene	1.672	1.760	-5.3	68	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	67	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.071	17.4	62	0.00
21		4-Bromophenyl-phenylether	0.251	0.264	-5.2	64	0.00
22		Hexachlorobenzene	0.303	0.336	-10.9	67	0.00
23		Atrazine	0.201	0.229	-13.9	72	0.00
24		Pentachlorophenol	0.138	0.145	-5.1	71	-0.01
25		Phenanthrene	1.200	1.300	-8.3	67	-0.01
26		Anthracene	1.083	1.164	-7.5	68	-0.01
27	SURR	Fluoranthene-d10	1.025	1.103	-7.6	66	0.00
28		Fluoranthene	1.348	1.470	-9.1	68	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	68	0.00
30		Pyrene	1.956	2.143	-9.6	68	0.00
31	S	Terphenyl-d14	0.958	0.991	-3.4	65	0.00
32		Benzo(a)anthracene	1.391	1.351	2.9	64	0.00
33		Chrysene	1.520	1.690	-11.2	71	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	1.108	-11.9	72	0.00
35	I	Perylene-d12	1.000	1.000	0.0	68	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.491	-3.3	65	-0.01
37		Benzo(b)fluoranthene	1.456	1.590	-9.2	70	0.00
38		Benzo(k)fluoranthene	1.527	1.674	-9.6	70	0.00
39	C	Benzo(a)pyrene	1.226	1.366	-11.4	71	0.00
40		Dibenzo(a,h)anthracene	1.124	1.177	-4.7	69	0.00
41		Benzo(g,h,i)perylene	1.286	1.359	-5.7	67	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:25 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	63	0.00
2		1,4-Dioxane	0.400	0.481	-20.2	68	0.00
3		n-Nitrosodimethylamine	0.400	0.477	-19.2	73	0.00
4	S	2-Fluorophenol	0.400	0.409	-2.2	61	0.00
5	S	Phenol-d6	0.400	0.394	1.5	64	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.380	5.0	61	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	70	-0.01
8	S	Nitrobenzene-d5	0.400	0.366	8.5	67	-0.01
9		Naphthalene	0.400	0.396	1.0	67	-0.01
10		Hexachlorobutadiene	0.400	0.419	-4.7	69	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.400	0.0	68	-0.01
12		2-Methylnaphthalene	0.400	0.396	1.0	68	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	68	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.413	-3.2	68	0.00
15	S	2-Fluorobiphenyl	0.400	0.403	-0.8	67	0.00
16		Acenaphthylene	0.400	0.411	-2.7	68	0.00
17		Acenaphthene	0.400	0.422	-5.5	70	-0.01
18		Fluorene	0.400	0.421	-5.2	68	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	67	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.424	-6.0	62	0.00
21		4-Bromophenyl-phenylether	0.400	0.421	-5.2	64	0.00
22		Hexachlorobenzene	0.400	0.444	-11.0	67	0.00
23		Atrazine	0.400	0.455	-13.7	72	0.00
24		Pentachlorophenol	0.400	0.421	-5.2	71	-0.01
25		Phenanthrene	0.400	0.433	-8.2	67	-0.01
26		Anthracene	0.400	0.430	-7.5	68	-0.01
27	SURR	Fluoranthene-d10	0.400	0.430	-7.5	66	0.00
28		Fluoranthene	0.400	0.436	-9.0	68	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	68	0.00
30		Pyrene	0.400	0.438	-9.5	68	0.00
31	S	Terphenyl-d14	0.400	0.414	-3.5	65	0.00
32		Benzo(a)anthracene	0.400	0.389	2.8	64	0.00
33		Chrysene	0.400	0.445	-11.2	71	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.447	-11.7	72	0.00
35	I	Perylene-d12	0.400	0.400	0.0	68	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.413	-3.2	65	-0.01
37		Benzo(b)fluoranthene	0.400	0.437	-9.2	70	0.00
38		Benzo(k)fluoranthene	0.400	0.439	-9.7	70	0.00
39	C	Benzo(a)pyrene	0.400	0.446	-11.5	71	0.00
40		Dibenzo(a,h)anthracene	0.400	0.419	-4.7	69	0.00
41		Benzo(g,h,i)perylene	0.400	0.423	-5.7	67	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 21:02

Lab File ID: BN036668.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	0.600		0.8	20.0
Fluoranthene-d10	1.025	1.125		9.8	20.0
2-Fluorophenol	0.932	0.932		0.0	20.0
Phenol-d6	1.152	1.154		0.2	20.0
Nitrobenzene-d5	0.435	0.426		-2.1	20.0
2-Fluorobiphenyl	2.327	2.408		3.5	20.0
2,4,6-Tribromophenol	0.182	0.192		5.5	20.0
Terphenyl-d14	0.958	0.968		1.0	20.0
1,4-Dioxane	0.444	0.488		9.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Quant Time: Mar 18 00:55:46 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	7.717	152	1326	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	3375	0.400	ng		-0.01
13) Acenaphthene-d10	14.356	164	1969	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	3924	0.400	ng		-0.01
29) Chrysene-d12	21.295	240	2929	0.400	ng		0.00
35) Perylene-d12	23.543	264	2659	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	1236	0.400	ng		0.00
5) Phenol-d6	6.887	99	1530	0.401	ng		-0.01
8) Nitrobenzene-d5	8.865	82	1438	0.392	ng		-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2025	0.403	ng		-0.02
14) 2,4,6-Tribromophenol	15.845	330	378	0.423	ng		-0.01
15) 2-Fluorobiphenyl	12.978	172	4741	0.414	ng		0.00
27) Fluoranthene-d10	19.132	212	4416	0.439	ng		0.00
31) Terphenyl-d14	19.740	244	2835	0.404	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	647	0.440	ng		92
3) n-Nitrosodimethylamine	3.550	42	1474	0.495	ng	#	85
6) bis(2-Chloroethyl)ether	7.139	93	1549	0.393	ng		98
9) Naphthalene	10.552	128	4011	0.404	ng		98
10) Hexachlorobutadiene	10.840	225	968	0.414	ng	#	97
12) 2-Methylnaphthalene	12.172	142	2540	0.402	ng		95
16) Acenaphthylene	14.067	152	3862	0.416	ng		99
17) Acenaphthene	14.420	154	2516	0.414	ng		98
18) Fluorene	15.403	166	3484	0.423	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	313	0.458	ng		86
21) 4-Bromophenyl-phenylether	16.305	248	1052	0.428	ng	#	77
22) Hexachlorobenzene	16.416	284	1271	0.428	ng		94
23) Atrazine	16.578	200	865	0.439	ng		95
24) Pentachlorophenol	16.764	266	643	0.475	ng		98
25) Phenanthrene	17.136	178	5152	0.438	ng		100
26) Anthracene	17.235	178	4534	0.427	ng		99
28) Fluoranthene	19.164	202	5895	0.446	ng		99
30) Pyrene	19.527	202	6066	0.424	ng		100
32) Benzo(a)anthracene	21.277	228	4223	0.415	ng		99
33) Chrysene	21.331	228	4938	0.444	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3370	0.465	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.826	276	3878	0.404	ng	#	93
37) Benzo(b)fluoranthene	22.867	252	4455m	0.460	ng		
38) Benzo(k)fluoranthene	22.911	252	4385	0.432	ng		96
39) Benzo(a)pyrene	23.446	252	3730	0.458	ng	#	91
40) Dibenzo(a,h)anthracene	25.844	278	2967	0.397	ng		96
41) Benzo(g,h,i)perylene	26.513	276	3542	0.414	ng		99

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

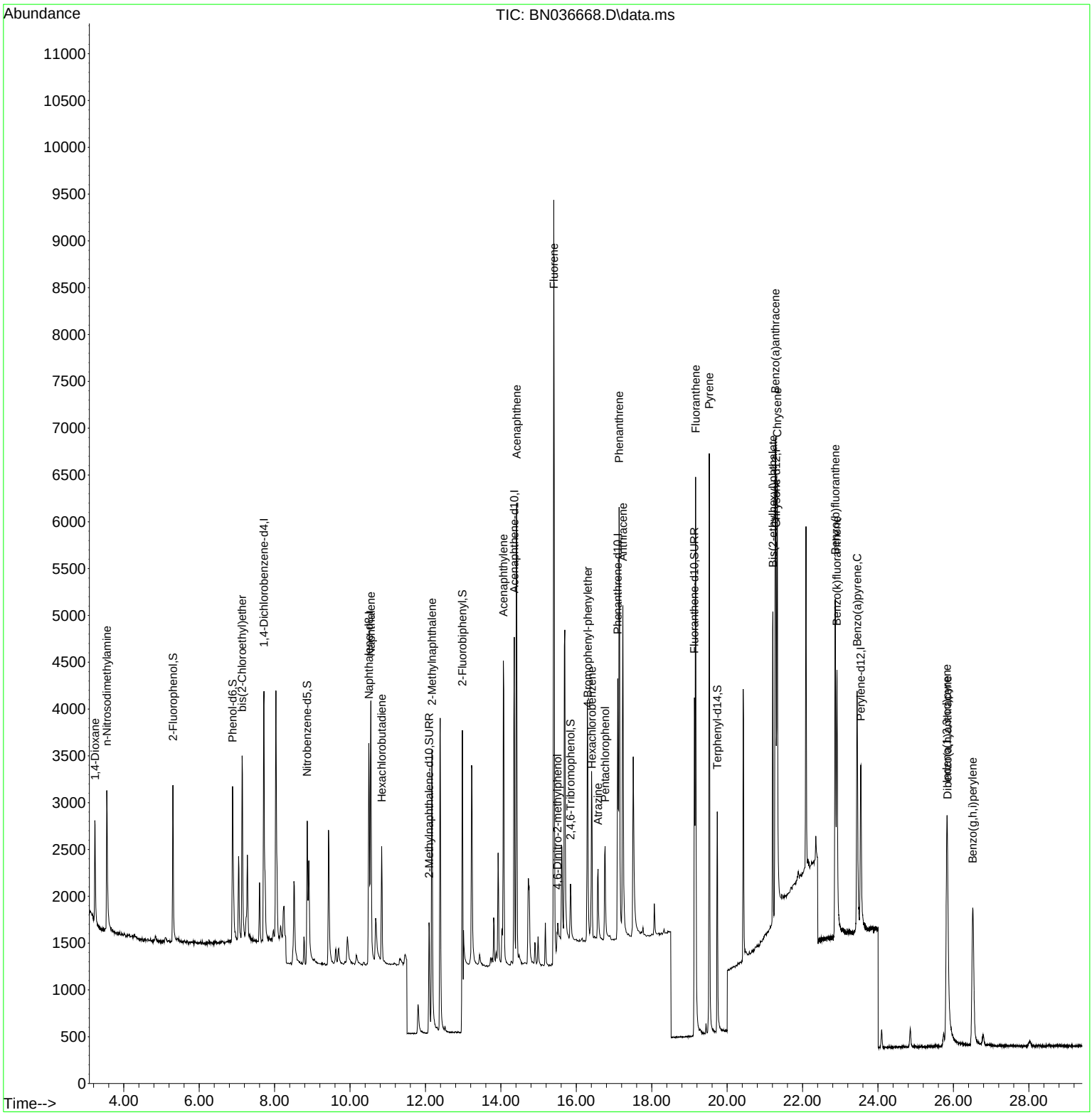
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

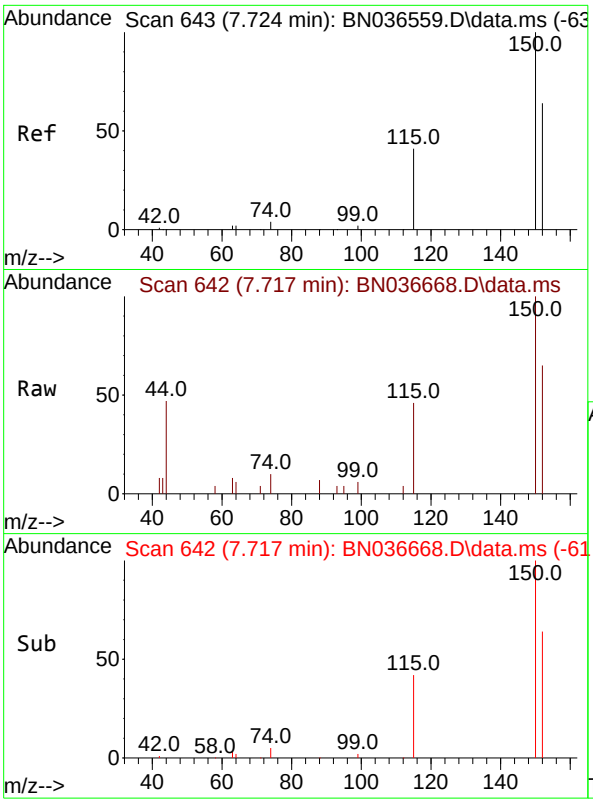
Quant Time: Mar 18 00:55:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

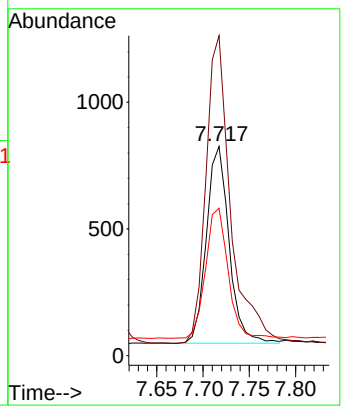




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:152 Resp: 132

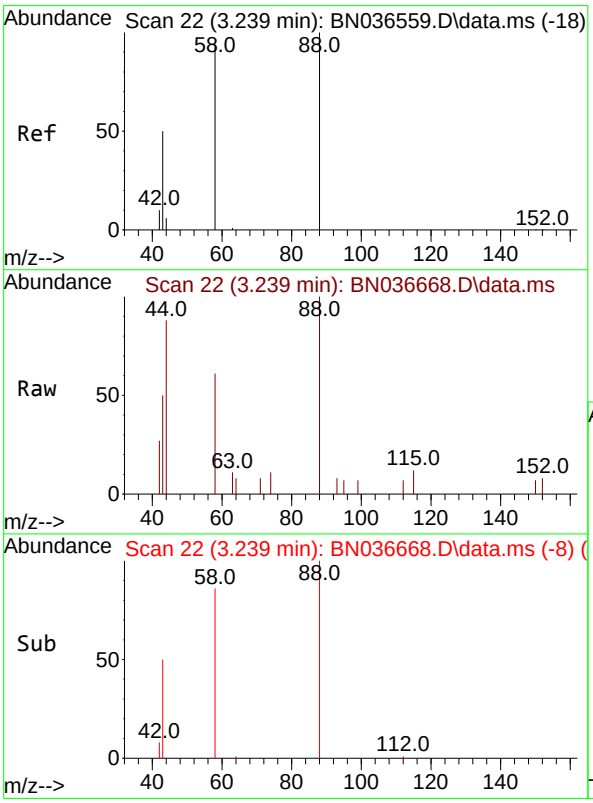
Ion	Ratio	Lower	Upper
152	100		
150	152.9	123.7	185.5
115	70.5	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

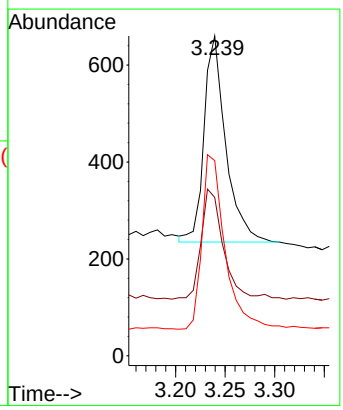
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

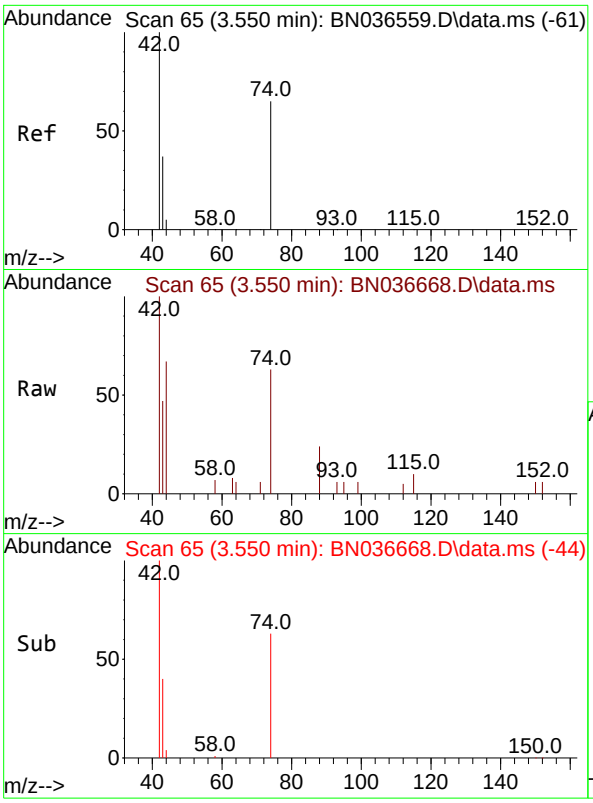


#2
1,4-Dioxane
Concen: 0.440 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 88 Resp: 647

Ion	Ratio	Lower	Upper
88	100		
43	54.7	37.8	56.8
58	89.8	67.4	101.2

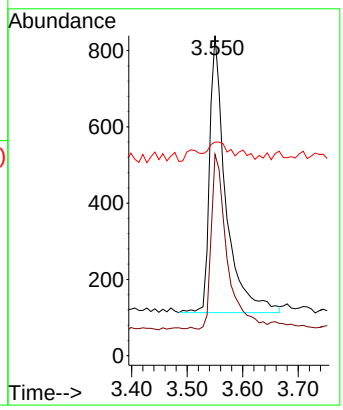




#3
n-Nitrosodimethylamine
Concen: 0.495 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 42 Resp: 147

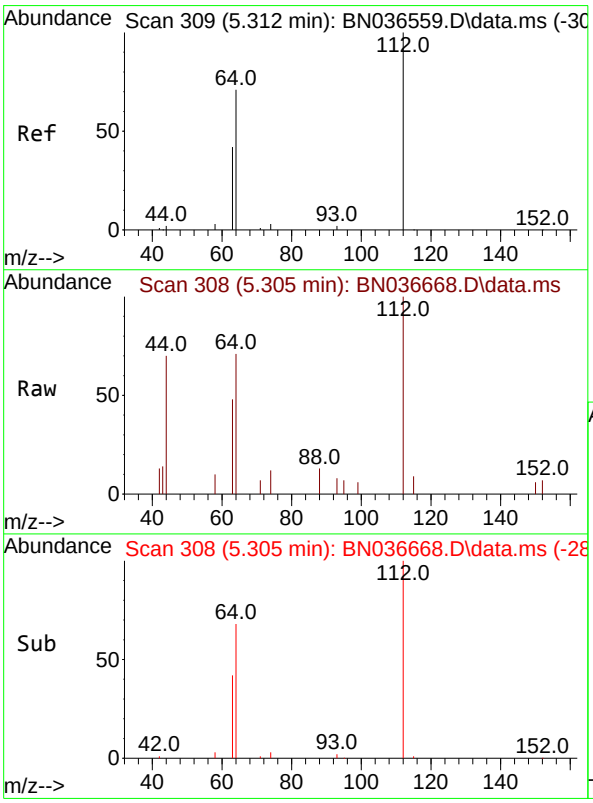
Ion	Ratio	Lower	Upper
42	100		
74	61.7	60.6	90.8
44	5.8	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

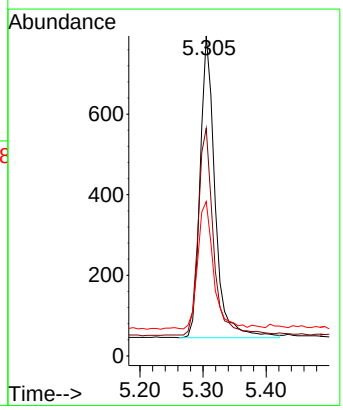
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

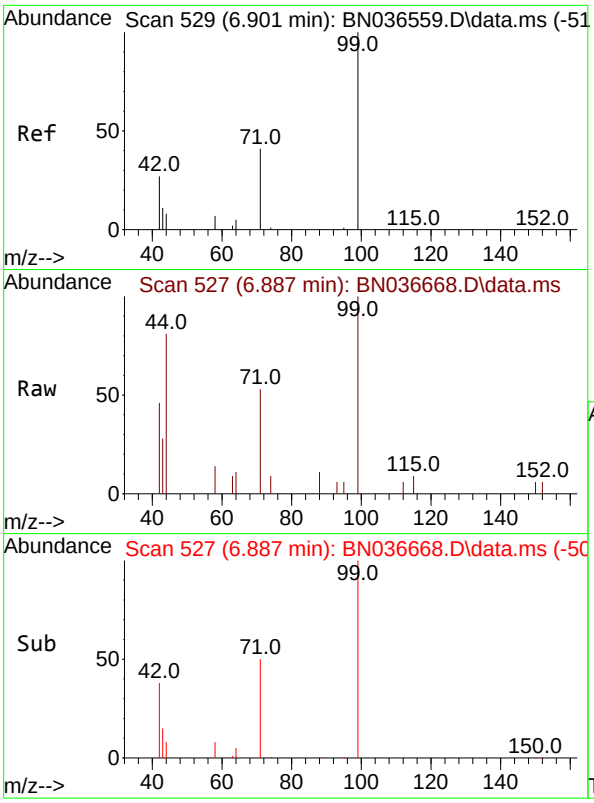


#4
2-Fluorophenol
Concen: 0.400 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:112 Resp: 1236

Ion	Ratio	Lower	Upper
112	100		
64	69.2	53.1	79.7
63	43.9	31.8	47.8





#5
Phenol-d6
Concen: 0.401 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

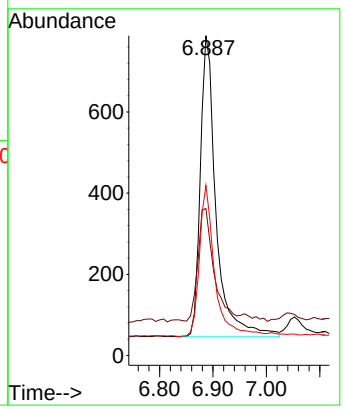
Tgt Ion: 99 Resp: 153

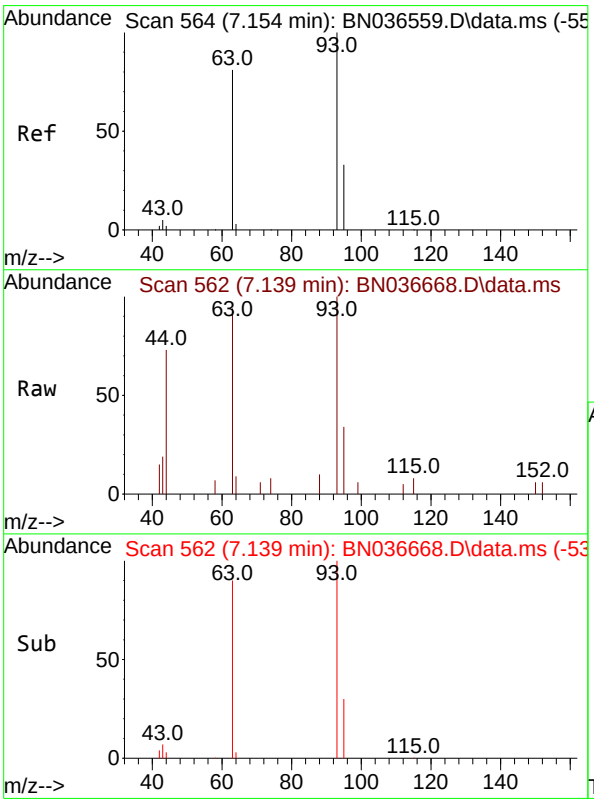
Ion	Ratio	Lower	Upper
99	100		
42	37.6	26.5	39.7
71	48.5	34.1	51.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

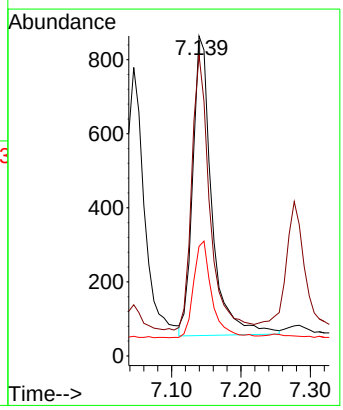


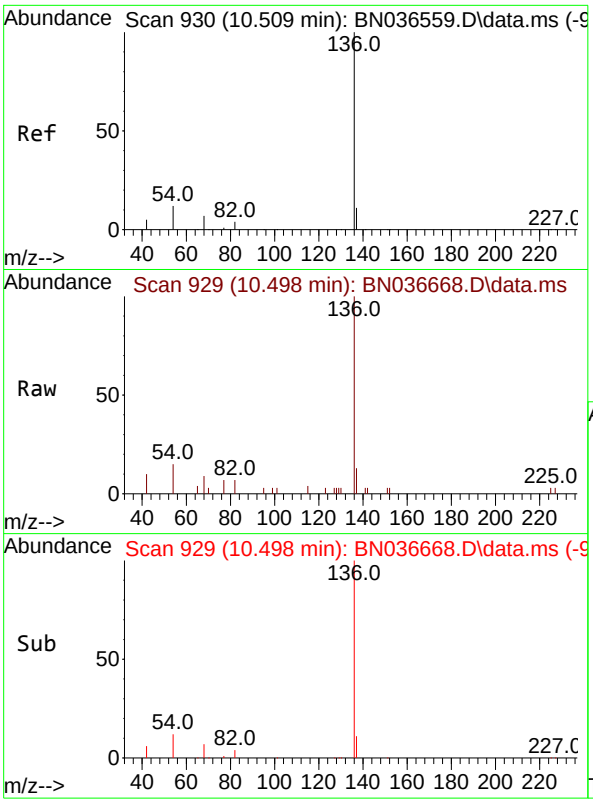


#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 93 Resp: 1549

Ion	Ratio	Lower	Upper
93	100		
63	85.9	67.7	101.5
95	31.0	25.6	38.4

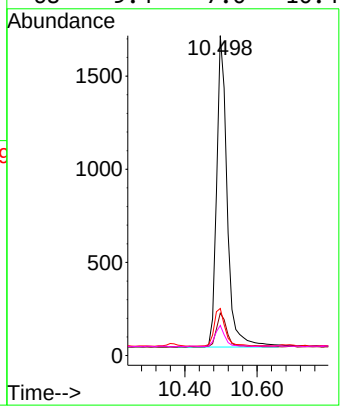




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:136 Resp: 337

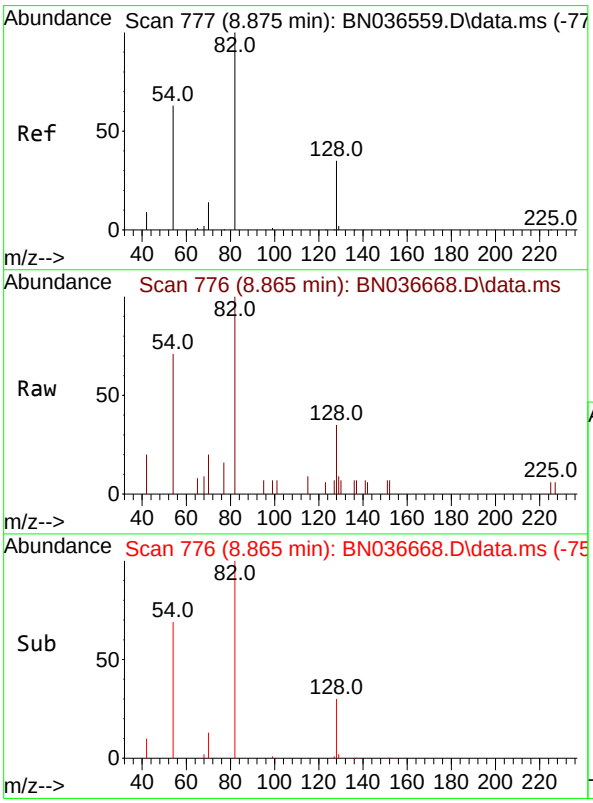
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.3	15.5
54	14.7	11.5	17.3
68	9.4	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

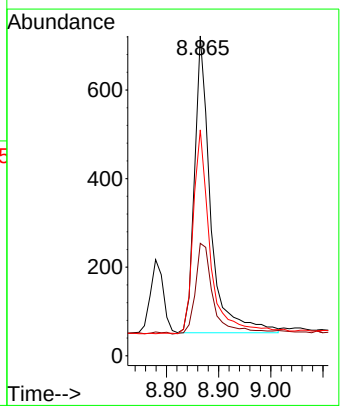
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

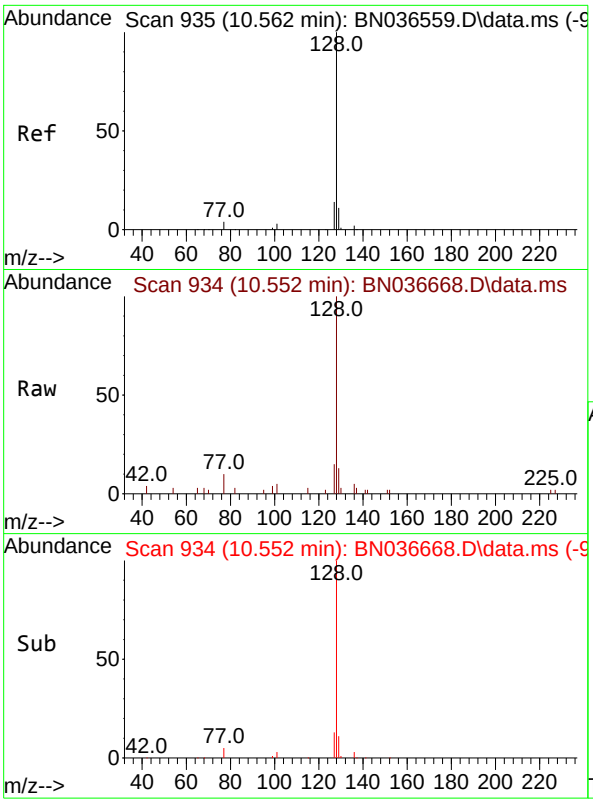


#8
Nitrobenzene-d5
Concen: 0.392 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 82 Resp: 1438

Ion	Ratio	Lower	Upper
82	100		
128	35.2	30.6	45.8
54	70.6	52.2	78.4

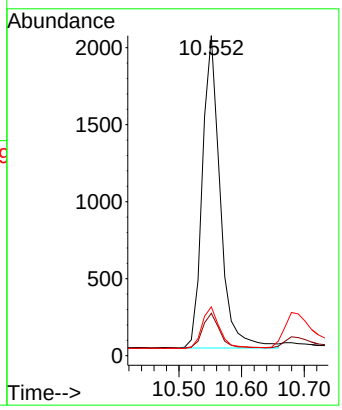




#9
Naphthalene
Concen: 0.404 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:128 Resp: 401

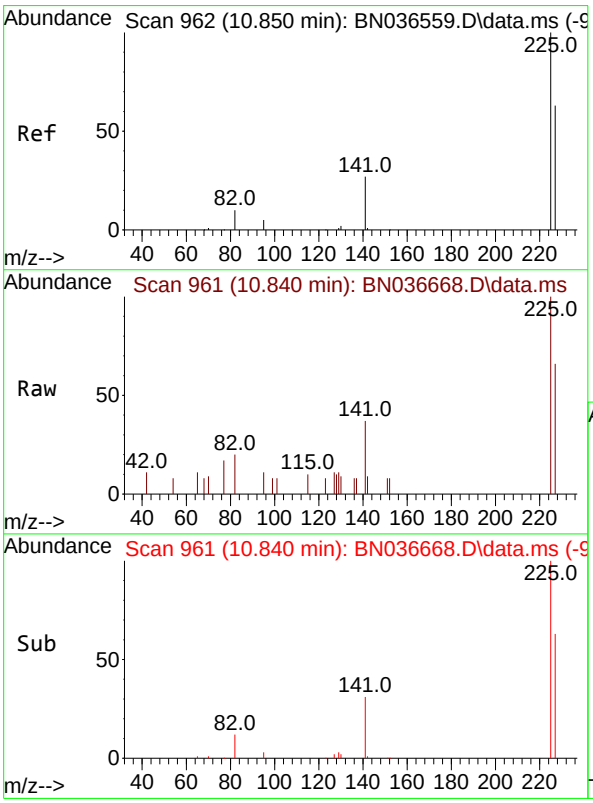
Ion	Ratio	Lower	Upper
128	100		
129	13.3	9.8	14.6
127	15.3	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

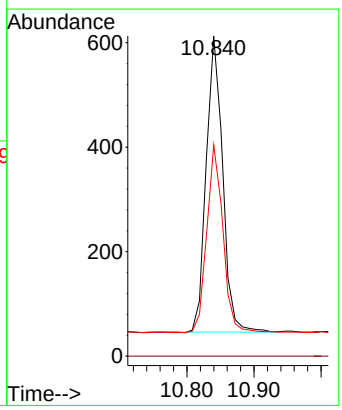
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

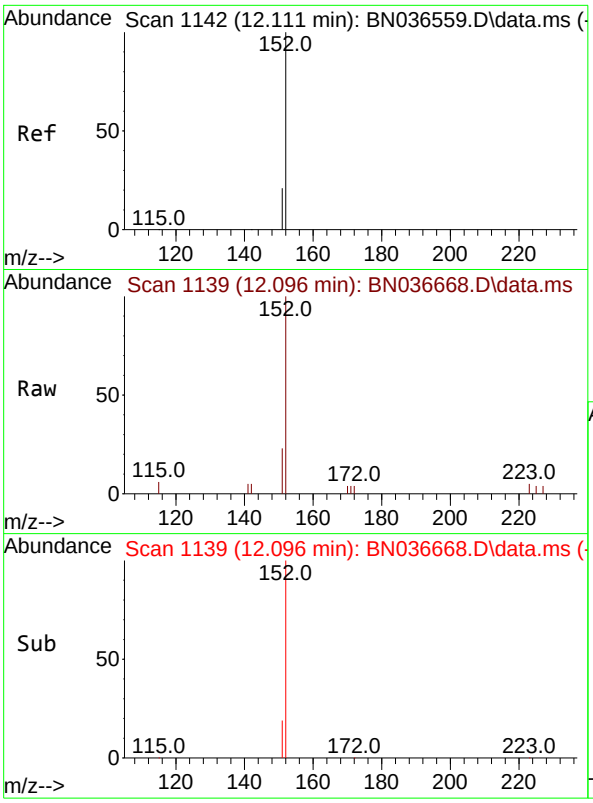


#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:225 Resp: 968

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: 0.403 ng
RT: 12.096 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

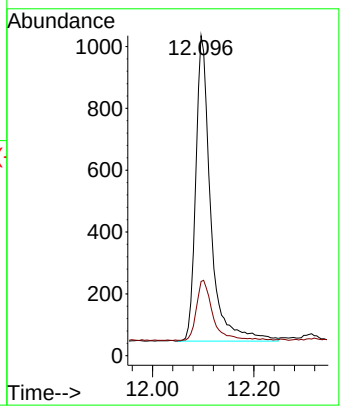
Tgt Ion:152 Resp: 202

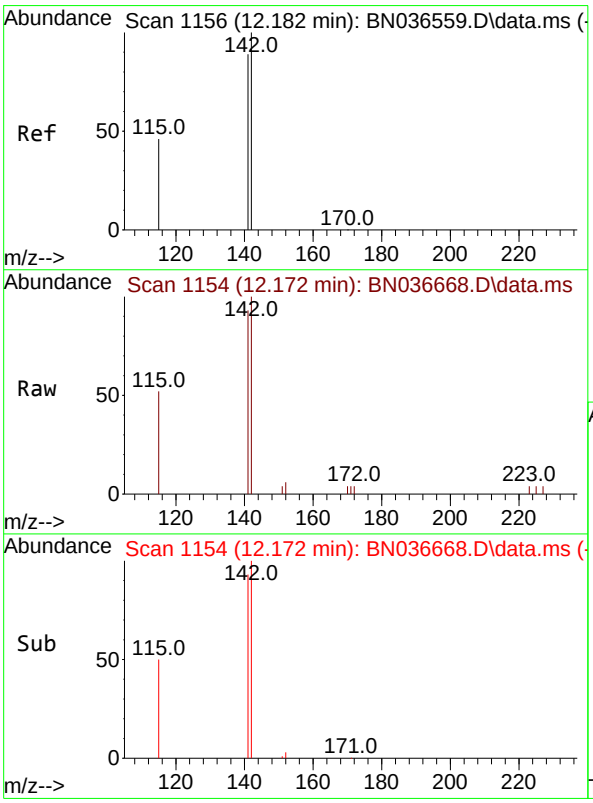
Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

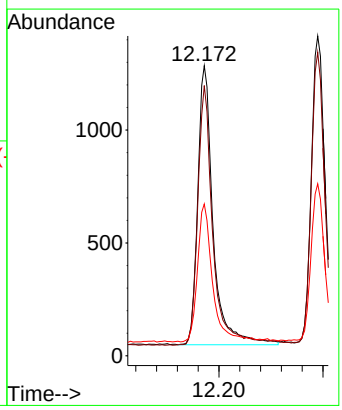


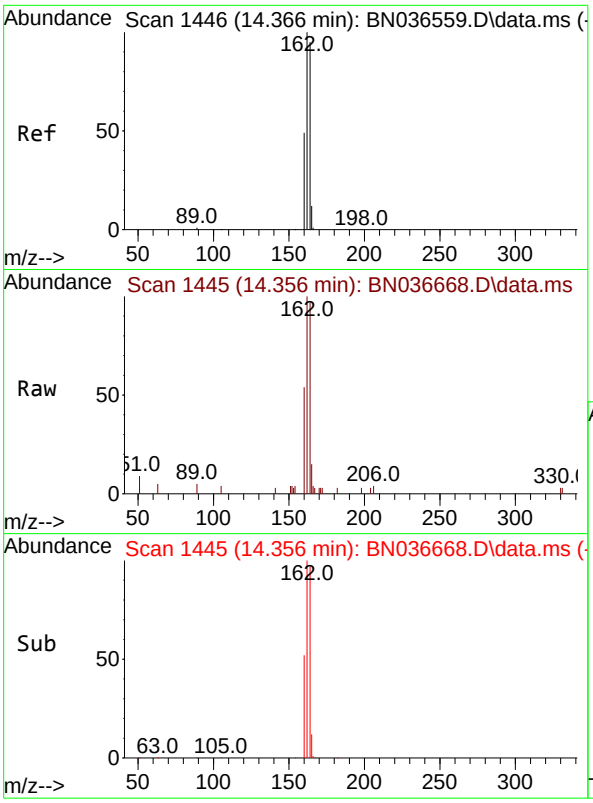


#12
2-Methylnaphthalene
Concen: 0.402 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:142 Resp: 2540

Ion	Ratio	Lower	Upper
142	100		
141	93.2	71.7	107.5
115	52.4	38.3	57.5

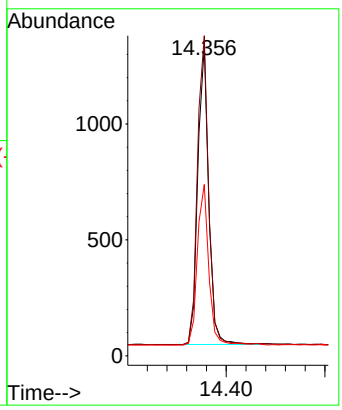




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:164 Resp: 196

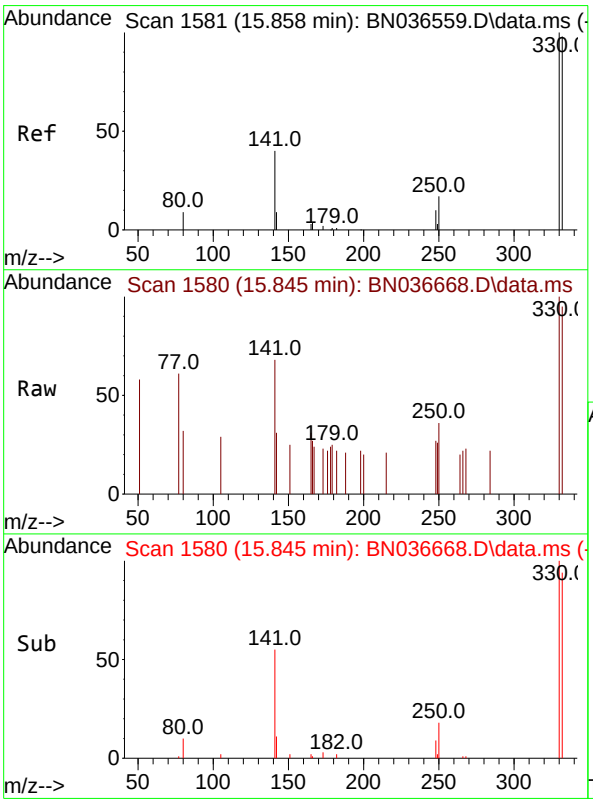
Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	55.3	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

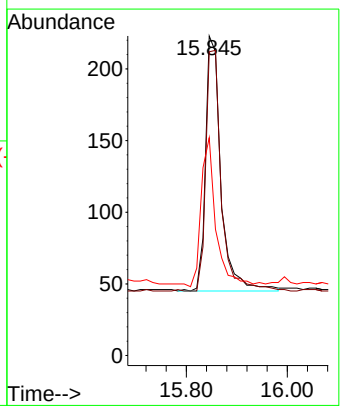
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

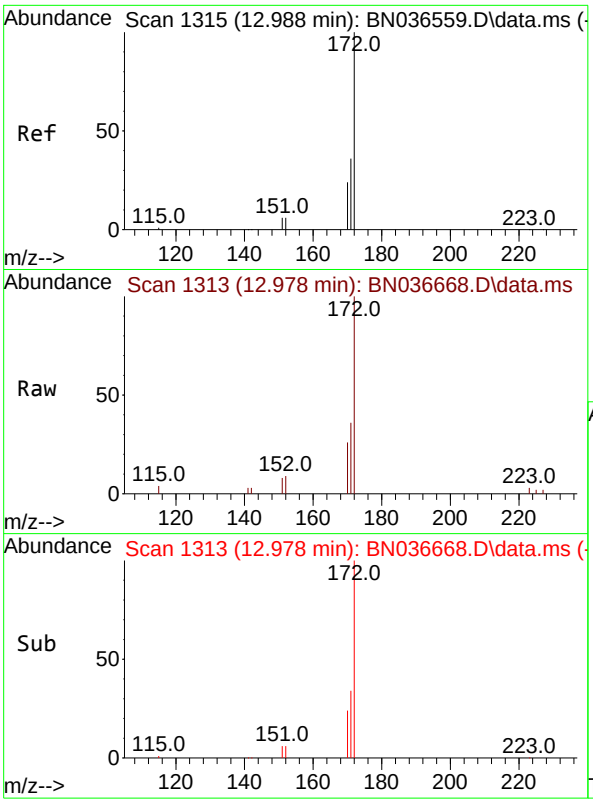


#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:330 Resp: 378

Ion	Ratio	Lower	Upper
330	100		
332	94.7	75.2	112.8
141	52.1	43.4	65.2





#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

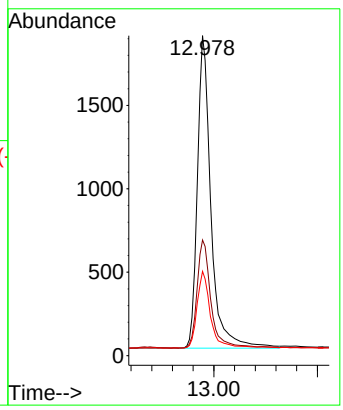
Tgt Ion:172 Resp: 474

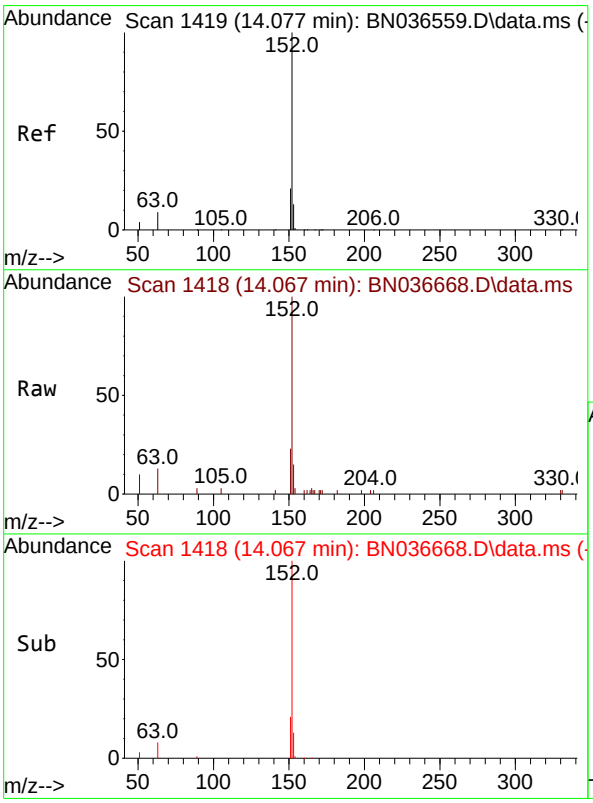
Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.5	44.3
170	26.3	20.2	30.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

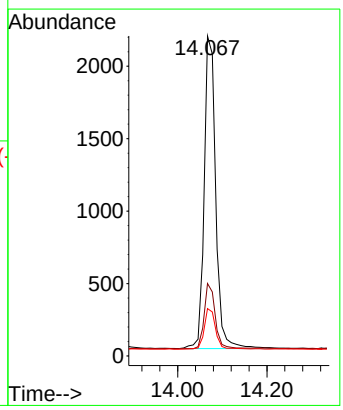


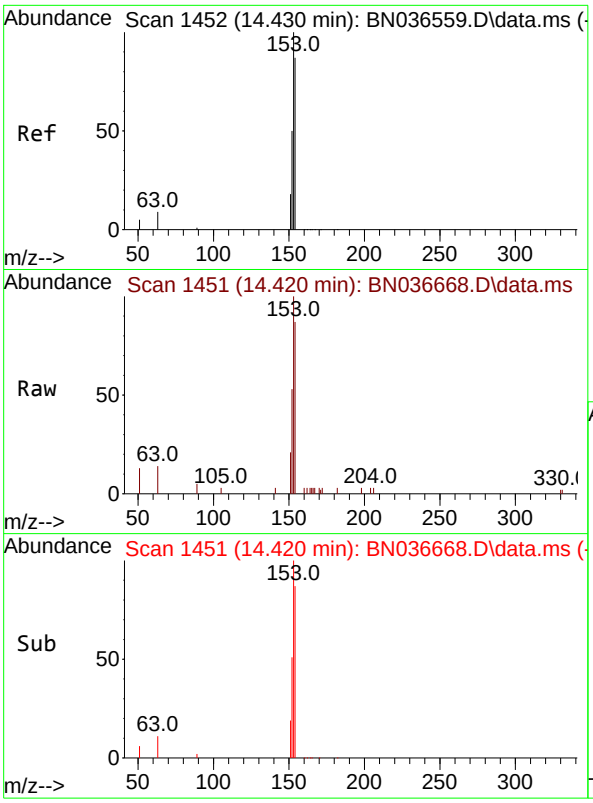


#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:152 Resp: 3862

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.8	10.6	15.8





#17
Acenaphthene
Concen: 0.414 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

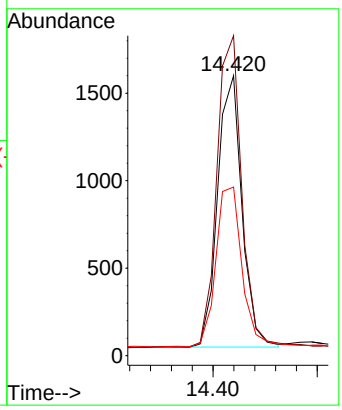
Tgt Ion:154 Resp: 251(

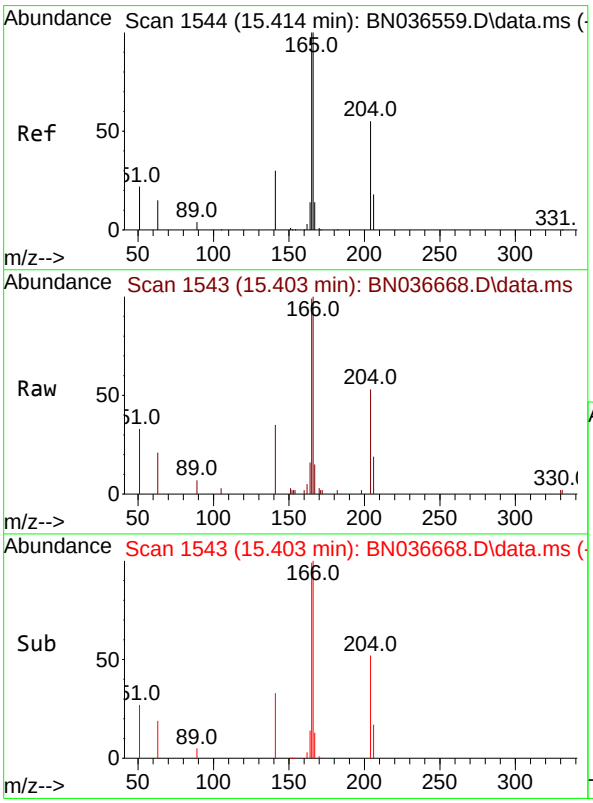
Ion	Ratio	Lower	Upper
154	100		
153	119.2	94.1	141.1
152	65.2	49.8	74.6

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

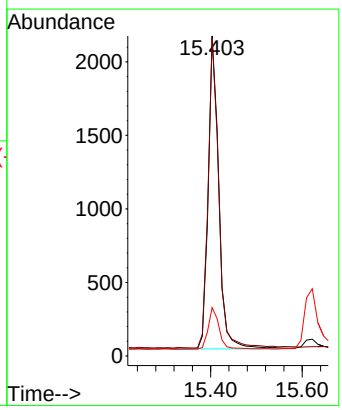


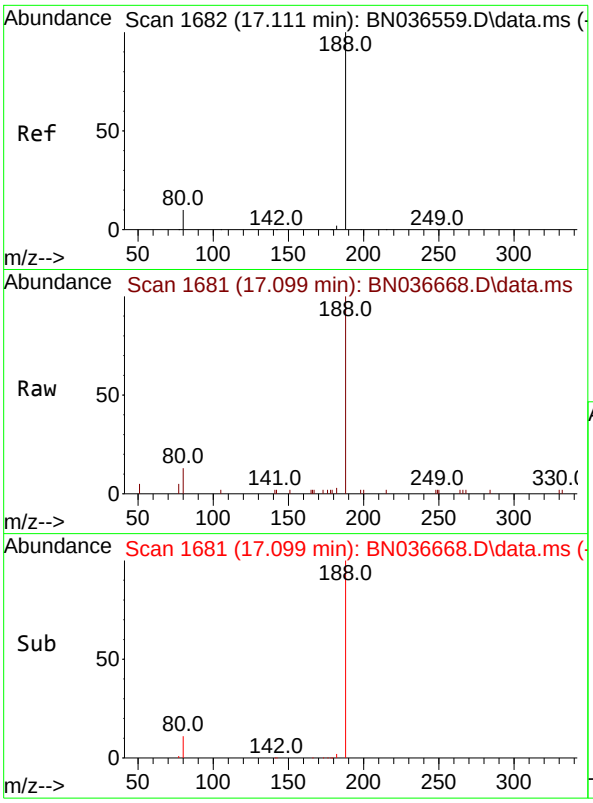


#18
Fluorene
Concen: 0.423 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:166 Resp: 3484

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.8
167	13.3	10.6	15.8

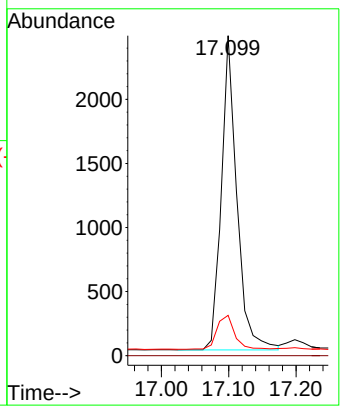




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:188 Resp: 392

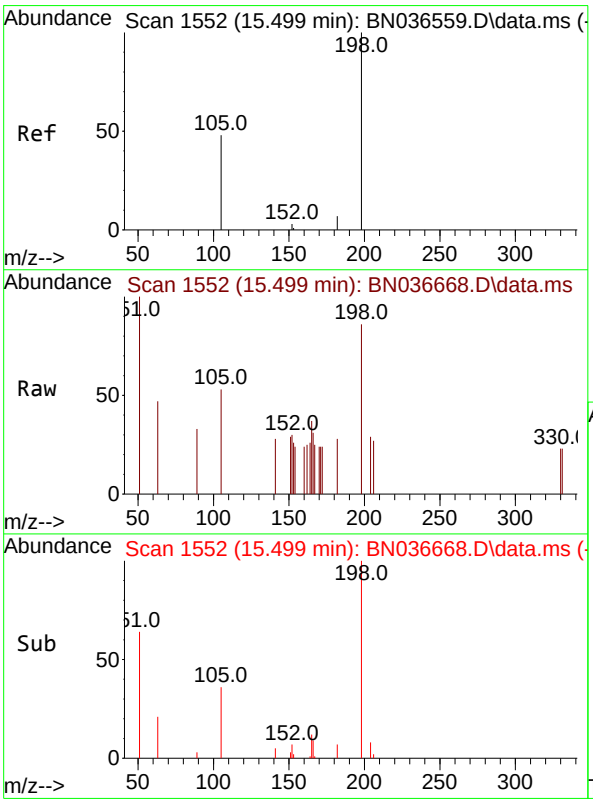
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	8.8	13.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

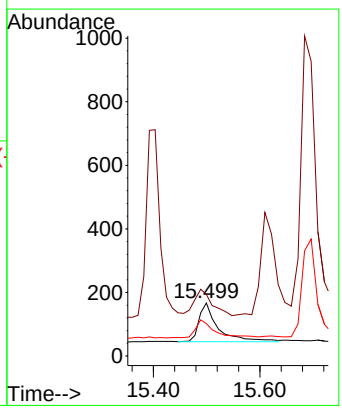
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

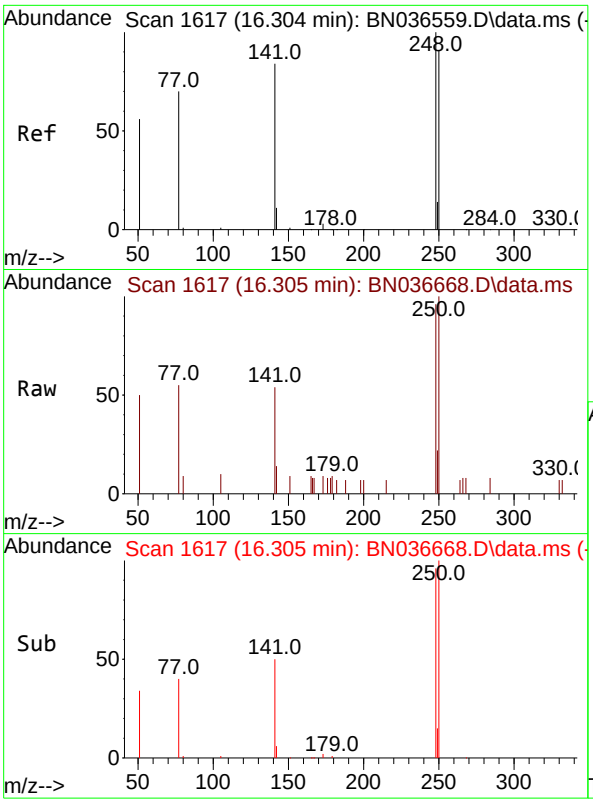


#20
4,6-Dinitro-2-methylphenol
Concen: 0.458 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:198 Resp: 313

Ion	Ratio	Lower	Upper
198	100		
51	116.2	107.9	161.9
105	61.1	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.305 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

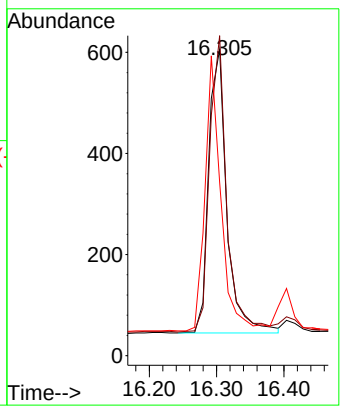
Tgt Ion:248 Resp: 105

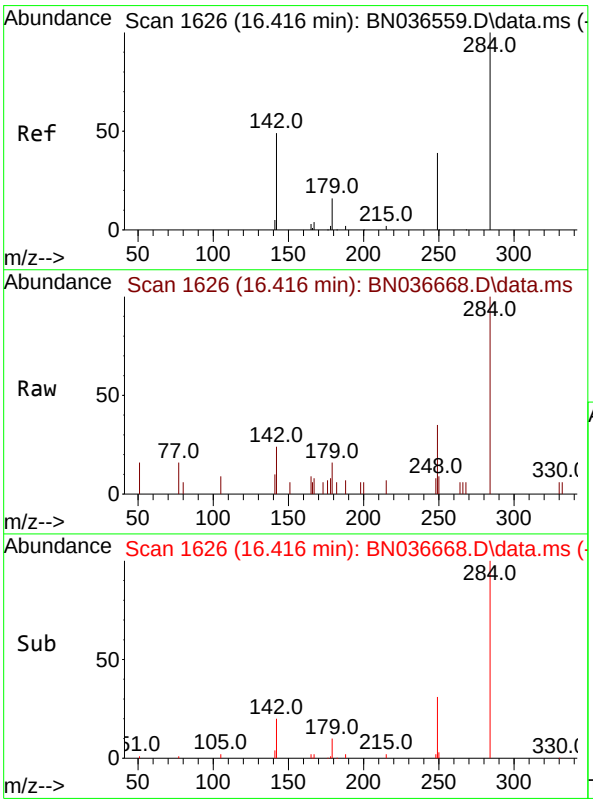
Ion	Ratio	Lower	Upper
248	100		
250	104.5	73.0	109.6
141	56.6	68.6	103.0#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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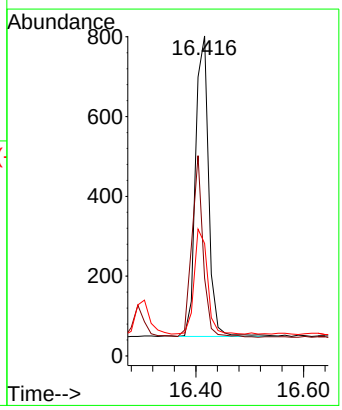


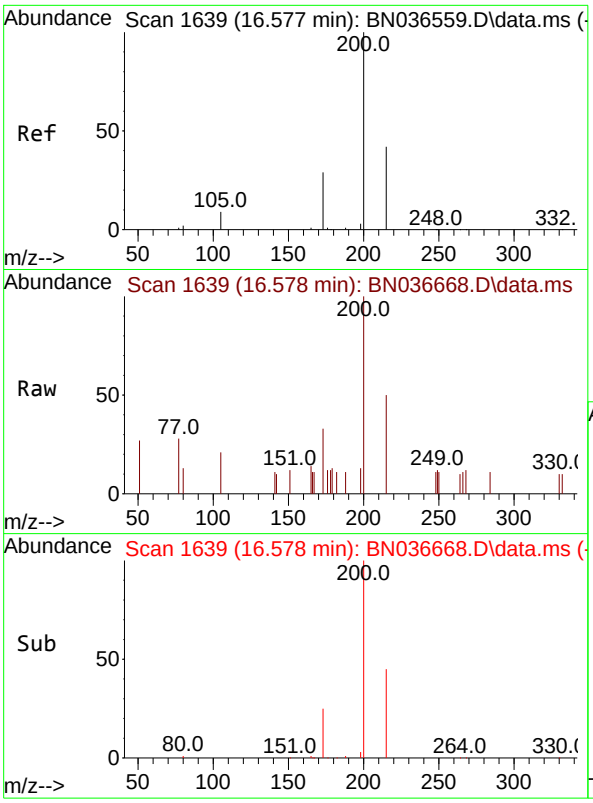


#22
Hexachlorobenzene
Concen: 0.428 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:284 Resp: 1271

Ion	Ratio	Lower	Upper
284	100		
142	52.7	37.0	55.4
249	35.7	28.1	42.1

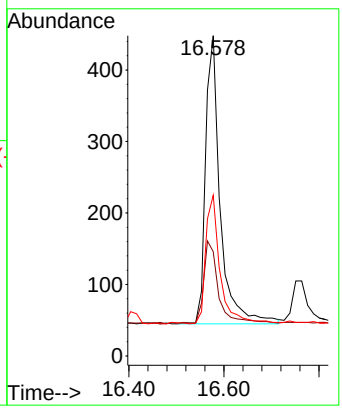




#23
Atrazine
Concen: 0.439 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:200 Resp: 86

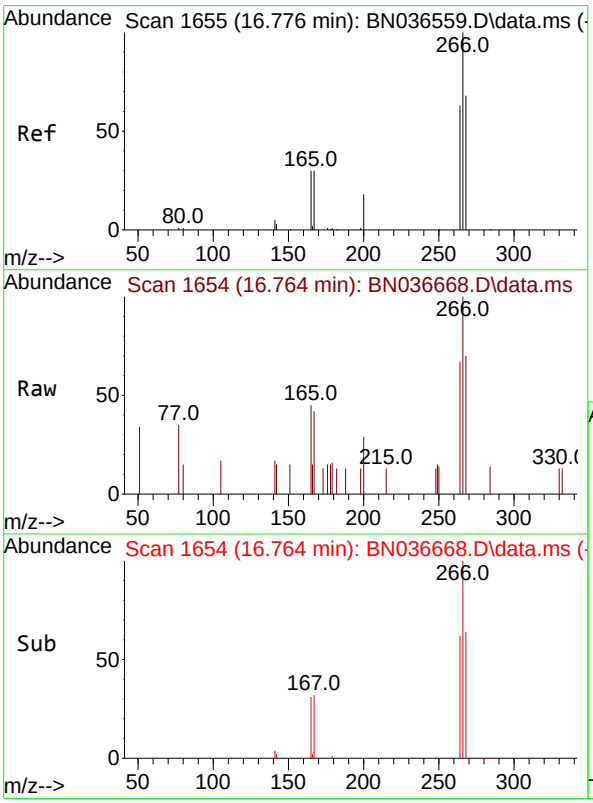
Ion	Ratio	Lower	Upper
200	100		
173	32.6	27.3	40.9
215	50.2	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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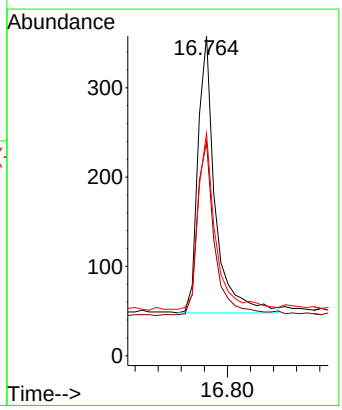
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

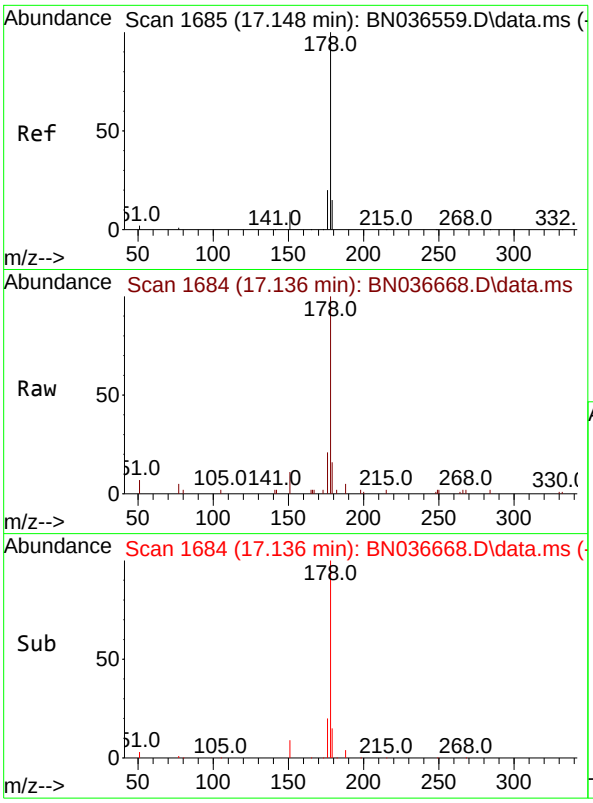


#24
Pentachlorophenol
Concen: 0.475 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:266 Resp: 643

Ion	Ratio	Lower	Upper
266	100		
264	64.7	49.6	74.4
268	63.9	50.9	76.3

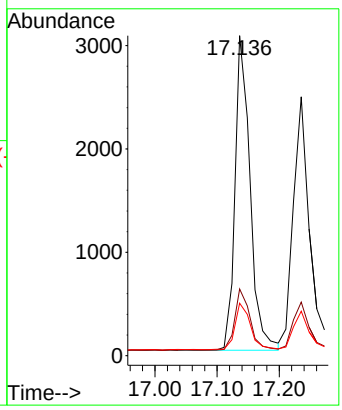




#25
Phenanthrene
Concen: 0.438 ng
RT: 17.136 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:178 Resp: 515

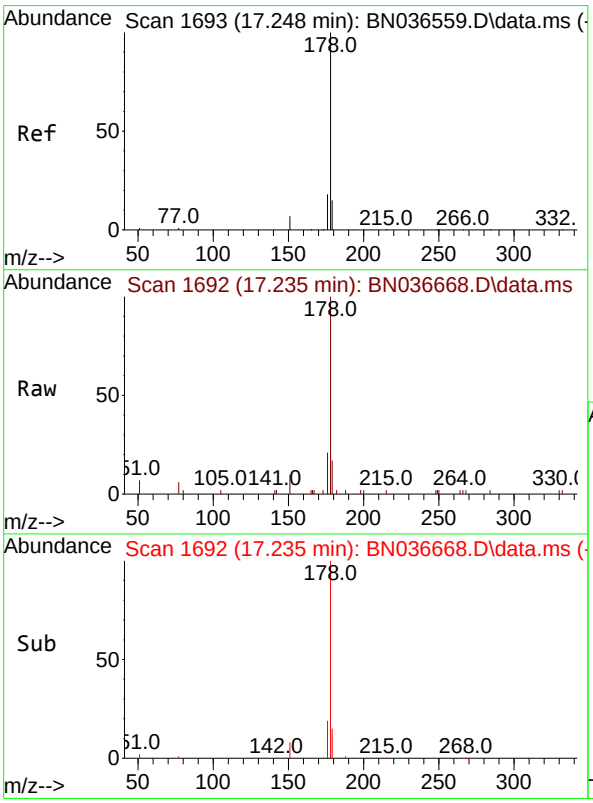
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.0	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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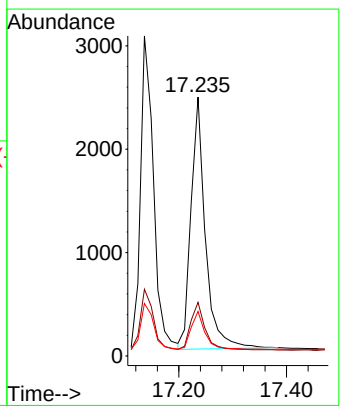
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

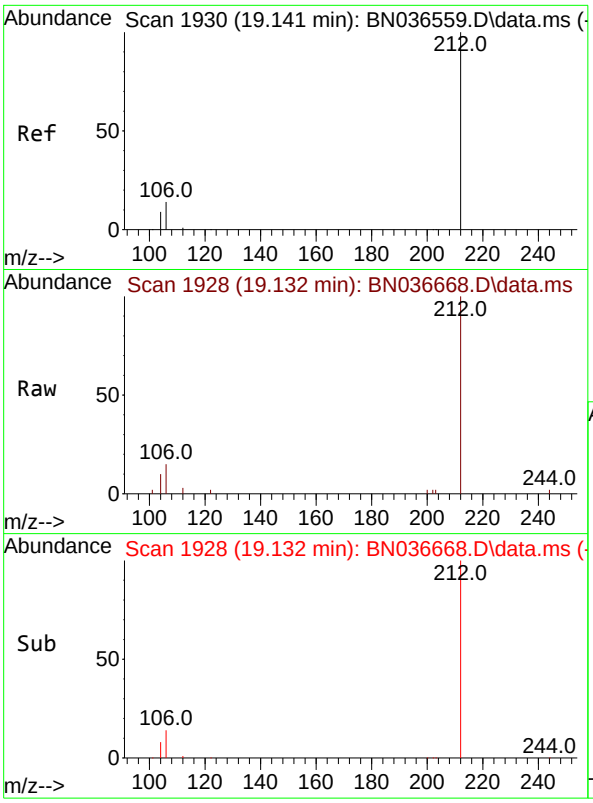


#26
Anthracene
Concen: 0.427 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:178 Resp: 4534

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	14.9	12.6	18.8





#27
Fluoranthene-d10
Concen: 0.439 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

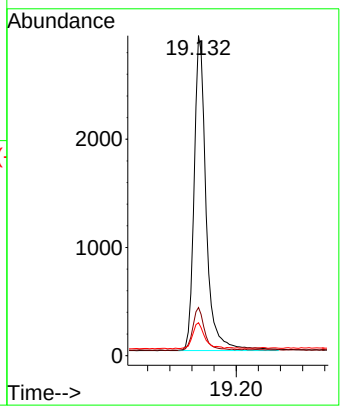
Tgt Ion:212 Resp: 441

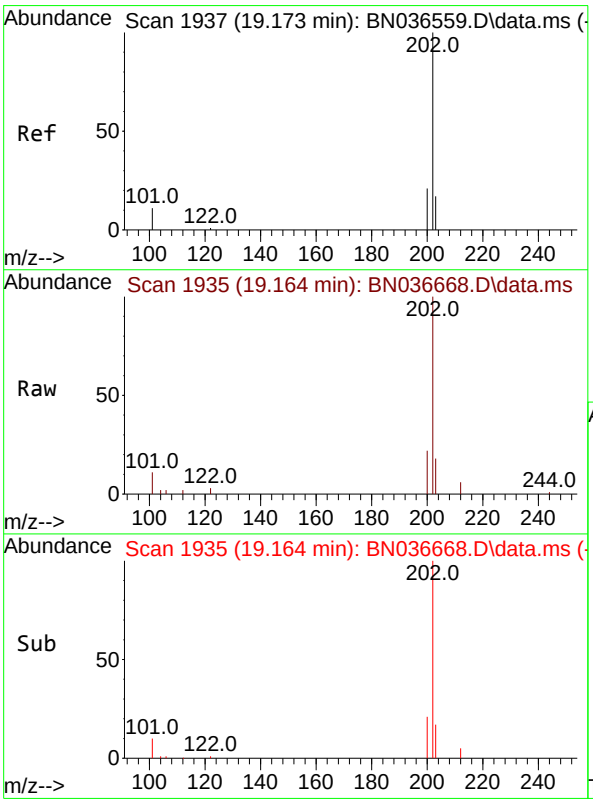
Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.8	17.6
104	8.0	7.3	10.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Supervised By :Jagrut Upadhyay 03/18/2025

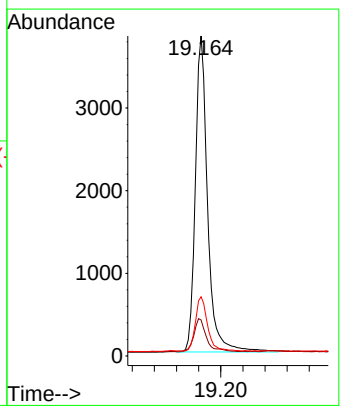


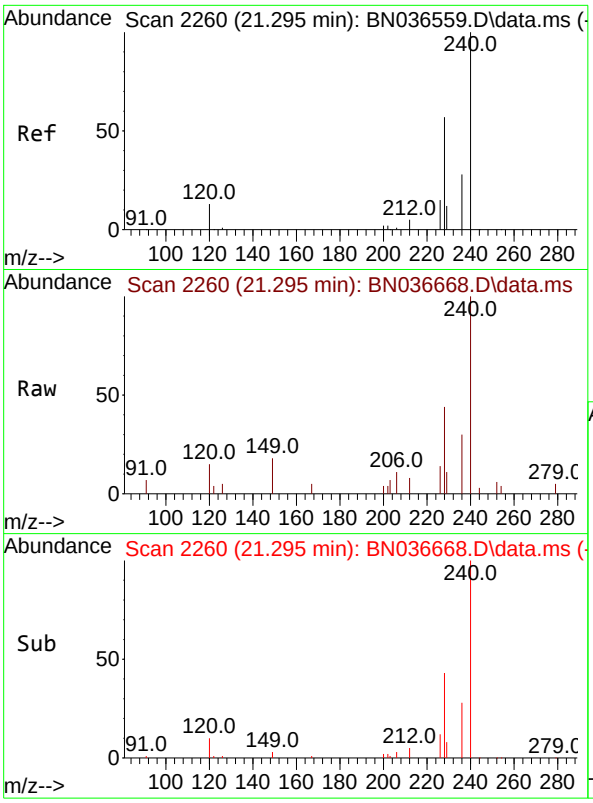


#28
Fluoranthene
Concen: 0.446 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:202 Resp: 5895

Ion	Ratio	Lower	Upper
202	100		
101	10.6	9.4	14.0
203	16.9	13.5	20.3

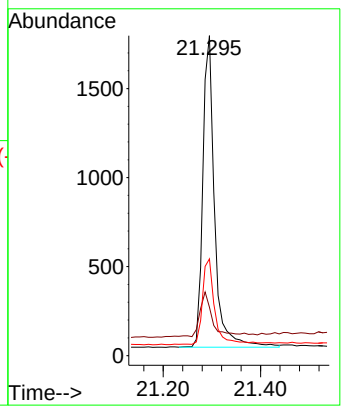




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:240 Resp: 292

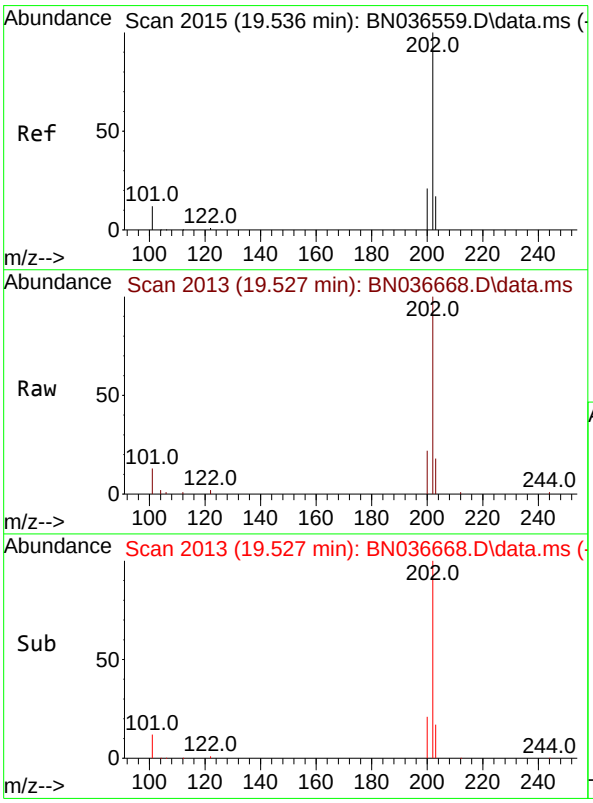
Ion	Ratio	Lower	Upper
240	100		
120	15.1	14.6	22.0
236	30.3	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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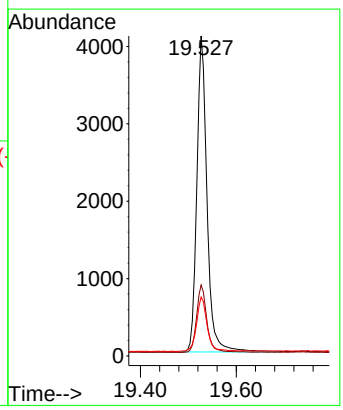
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

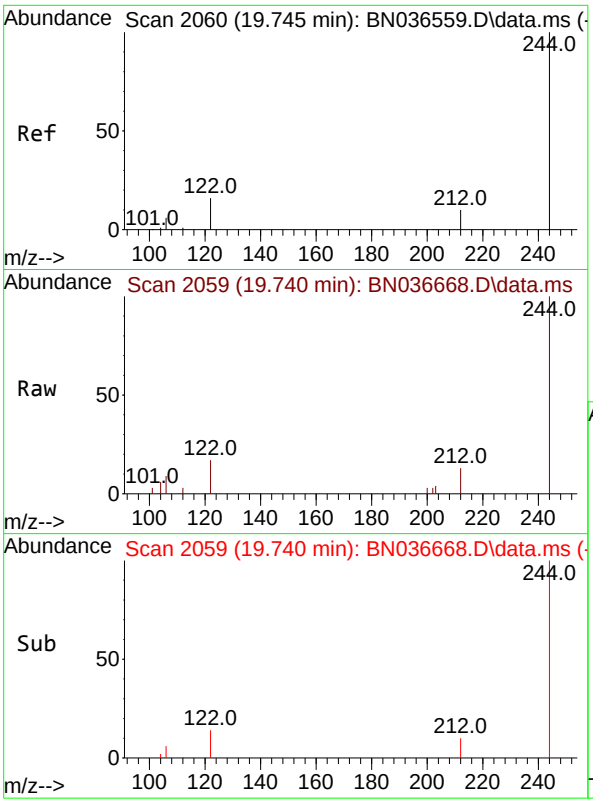


#30
Pyrene
Concen: 0.424 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:202 Resp: 6066

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.9	14.1	21.1

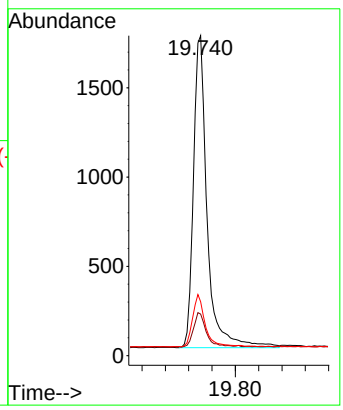




#31
Terphenyl-d14
Concen: 0.404 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:244 Resp: 283

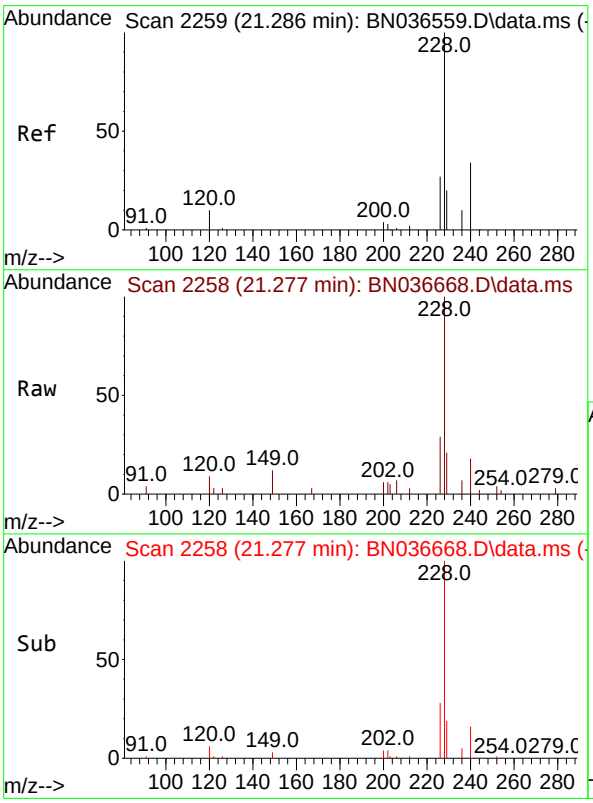
Ion	Ratio	Lower	Upper
244	100		
212	13.0	9.6	14.4
122	16.9	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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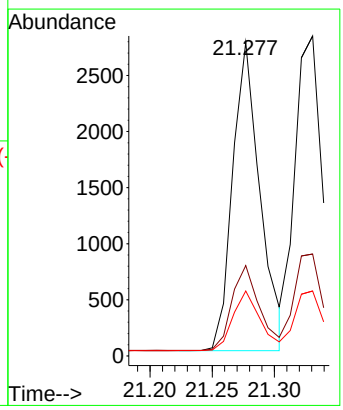
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

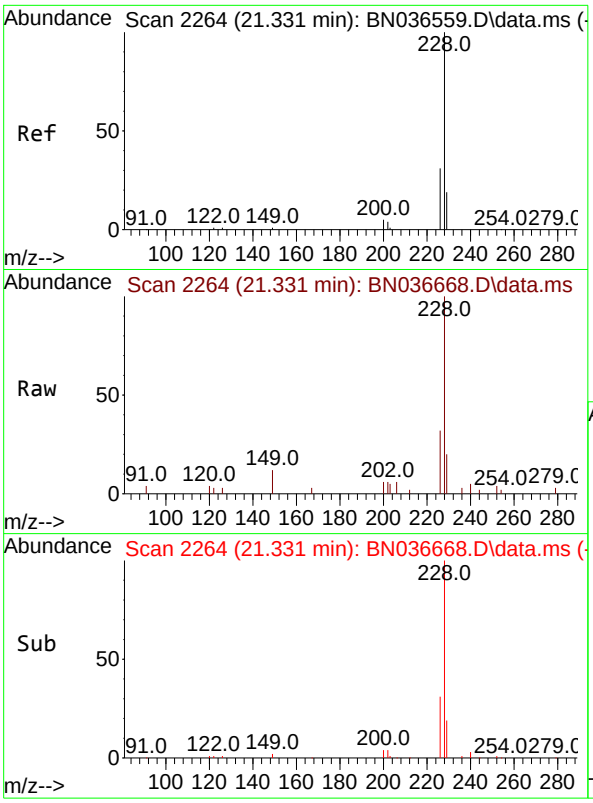


#32
Benzo(a)anthracene
Concen: 0.415 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:228 Resp: 4223

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.7	16.6	25.0





#33
Chrysene
Concen: 0.444 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

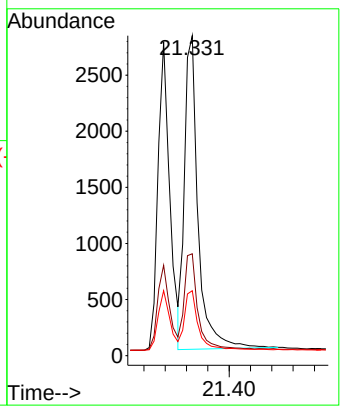
Tgt Ion:228 Resp: 493

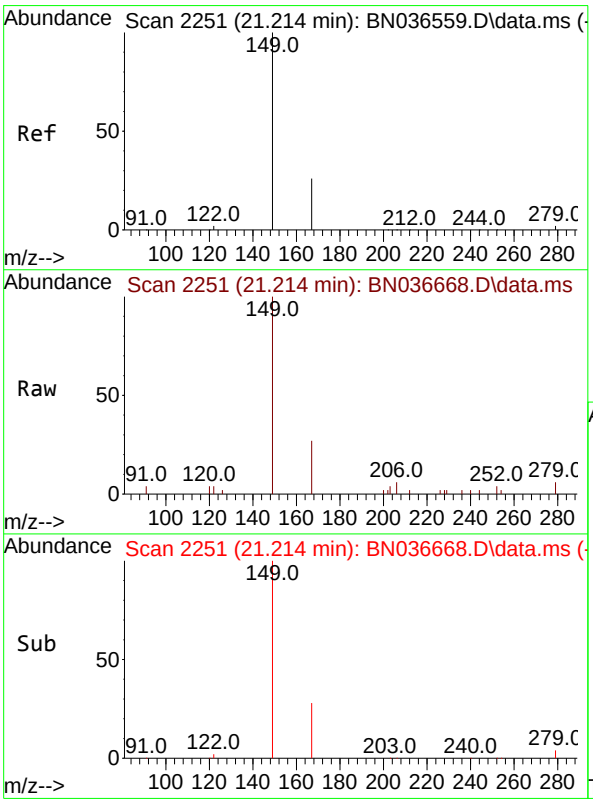
Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.3	37.9
229	20.3	15.8	23.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

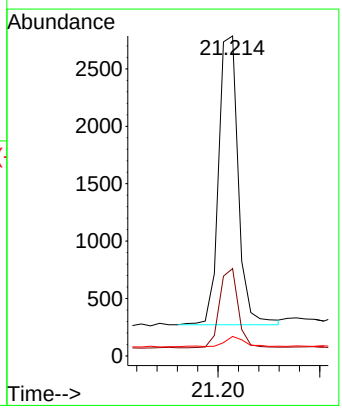


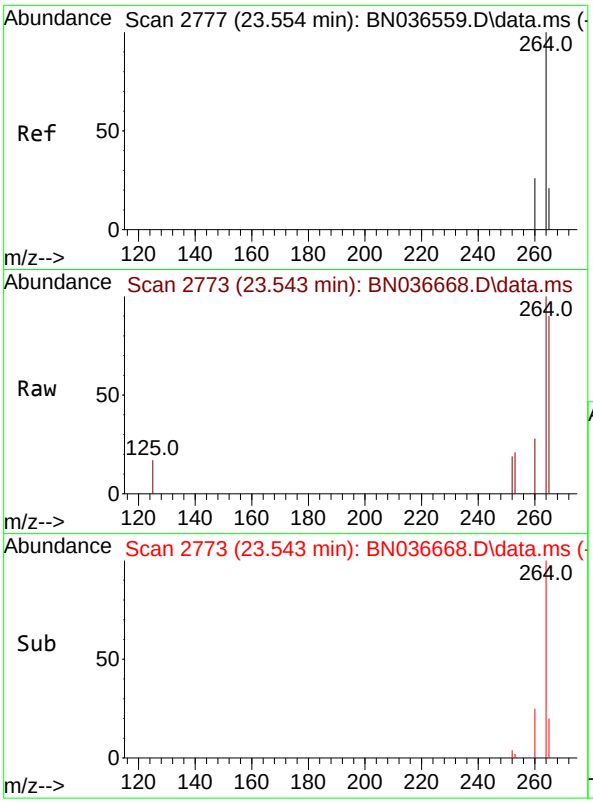


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.465 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:149 Resp: 3370

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.5	3.6	5.4#

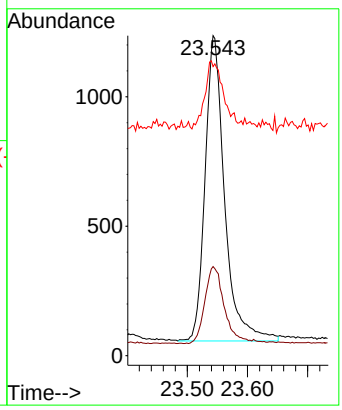




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:264 Resp: 265

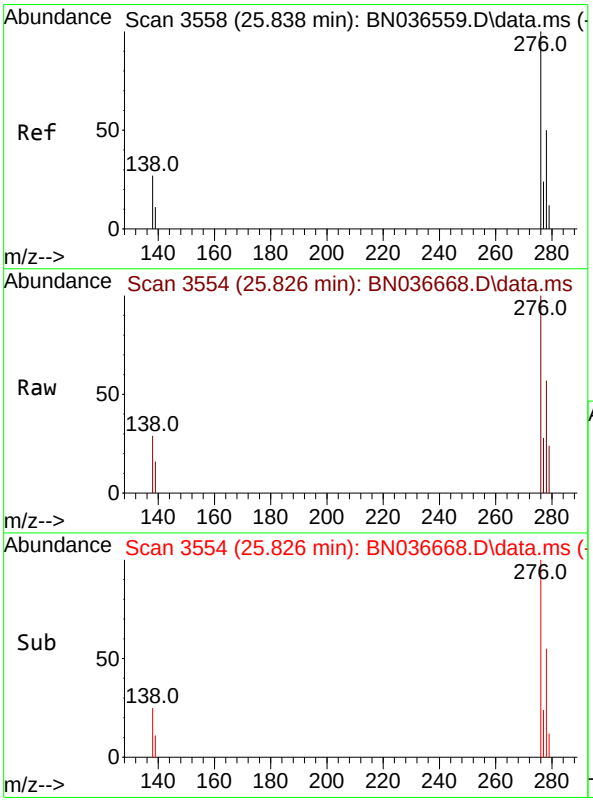
Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	90.4	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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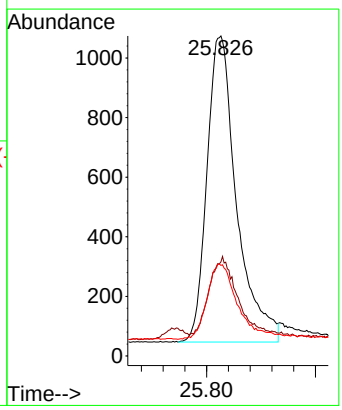
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

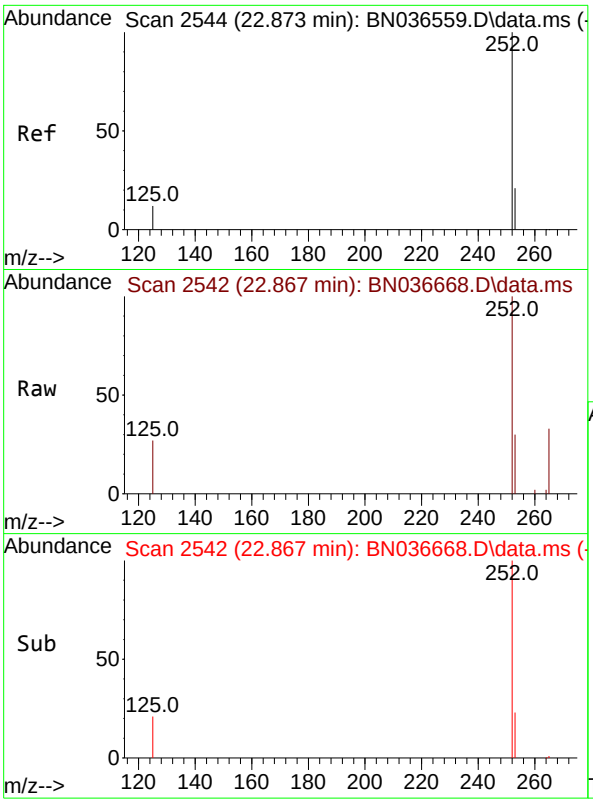


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:276 Resp: 3878

Ion	Ratio	Lower	Upper
276	100		
138	22.7	23.4	35.2#
277	25.7	20.0	30.0

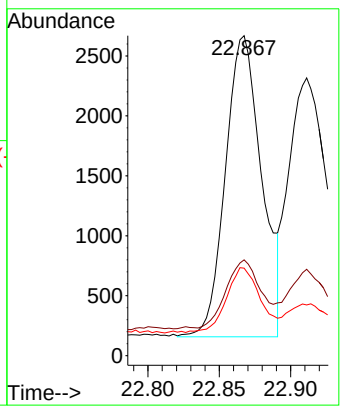




#37
Benzo(b)fluoranthene
Concen: 0.460 ng m
RT: 22.867 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:252 Resp: 445

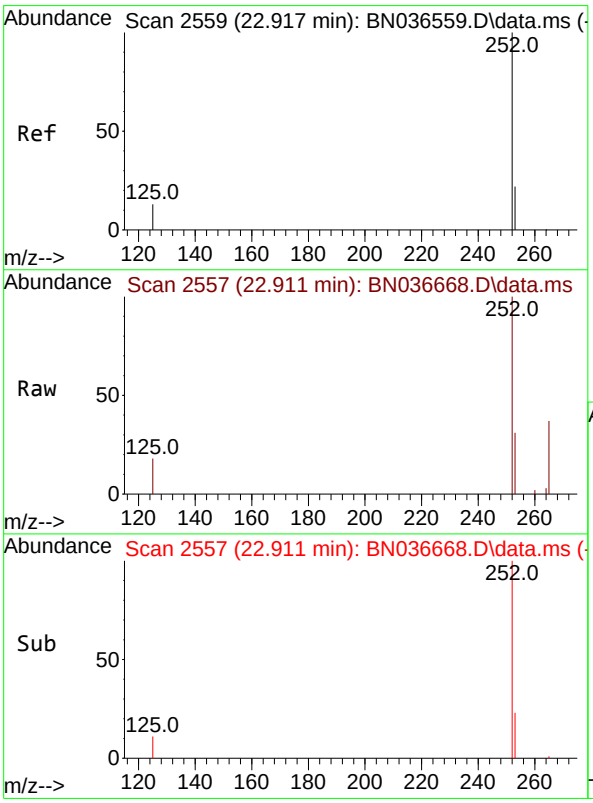
Ion	Ratio	Lower	Upper
252	100		
253	29.9	23.9	35.9
125	27.4	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

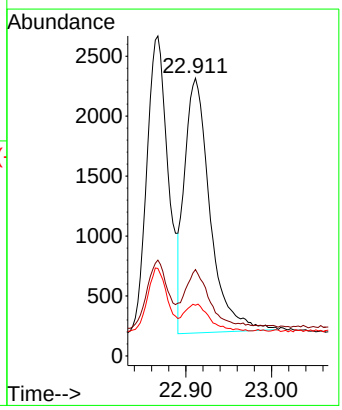
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

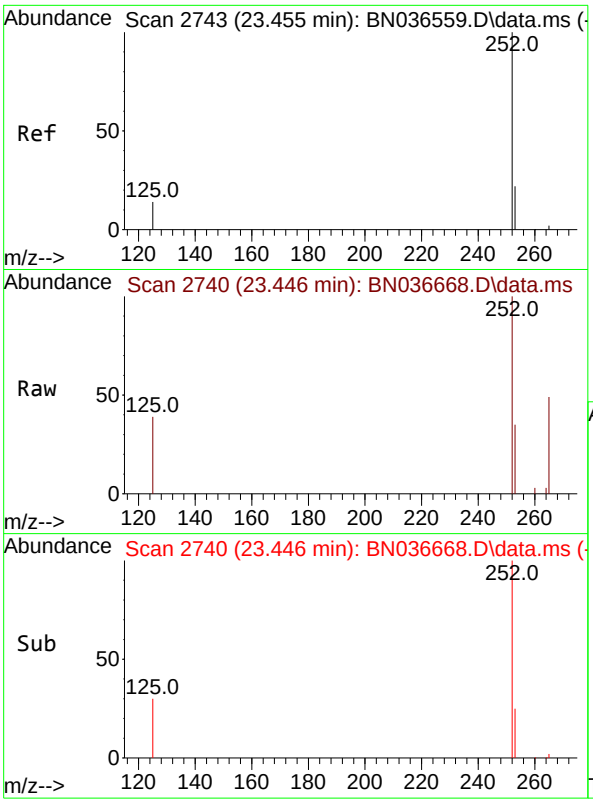


#38
Benzo(k)fluoranthene
Concen: 0.432 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:252 Resp: 4385

Ion	Ratio	Lower	Upper
252	100		
253	31.1	24.6	36.8
125	18.3	17.8	26.8

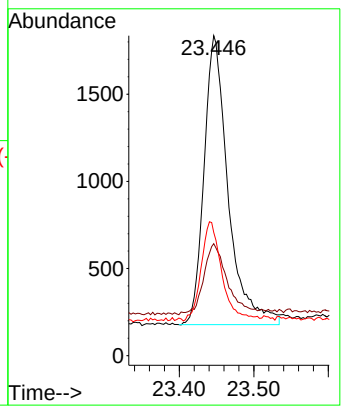




#39
Benzo(a)pyrene
Concen: 0.458 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:252 Resp: 373

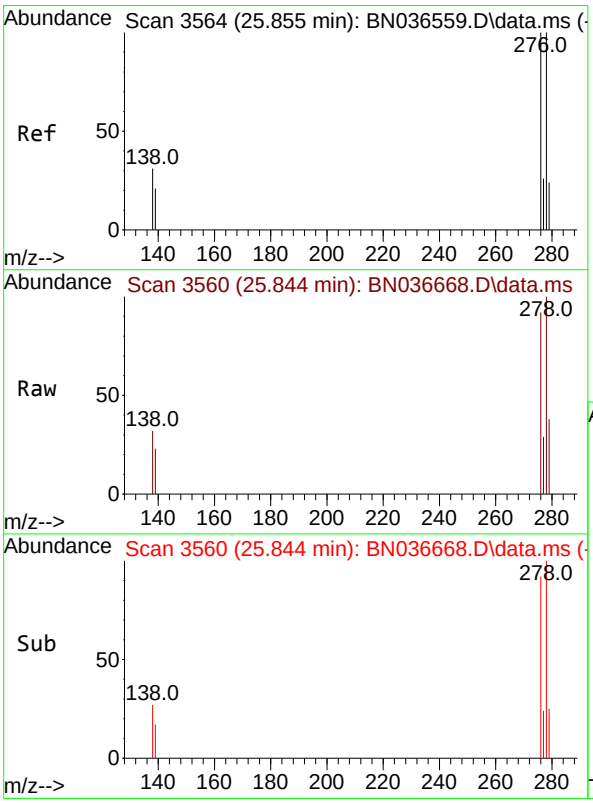
Ion	Ratio	Lower	Upper
252	100		
253	35.0	27.8	41.8
125	38.5	22.7	34.1#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

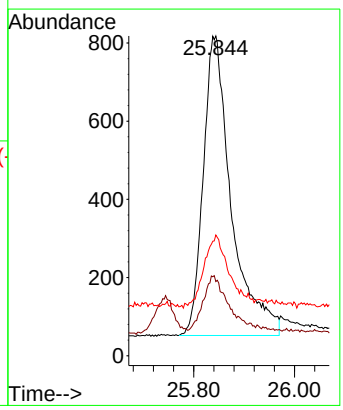
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

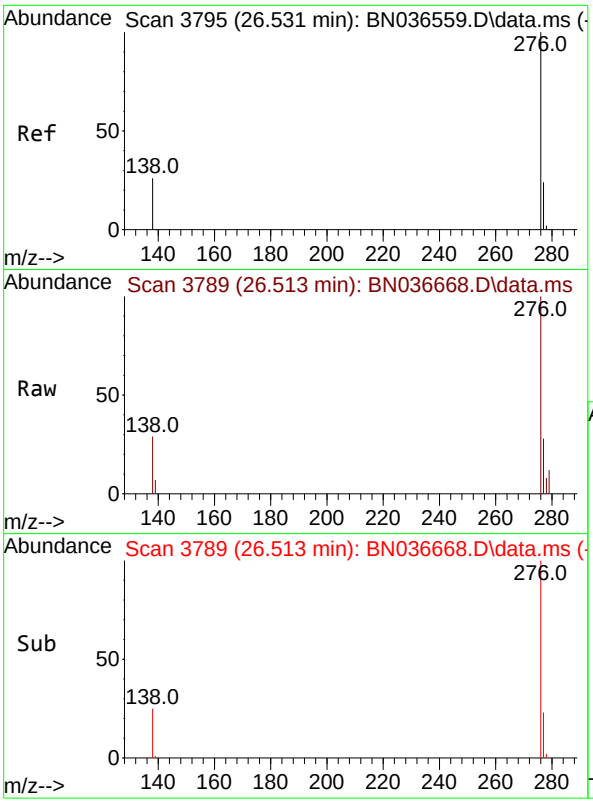


#40
Dibenzo(a,h)anthracene
Concen: 0.397 ng
RT: 25.844 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:278 Resp: 2967

Ion	Ratio	Lower	Upper
278	100		
139	23.2	20.8	31.2
279	37.8	28.8	43.2

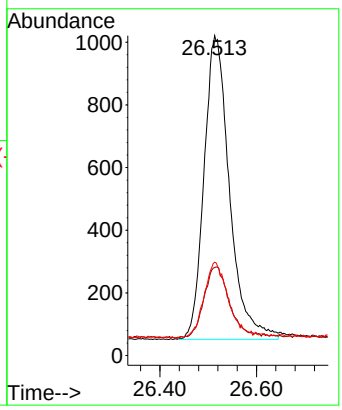




#41
Benzo(g,h,i)perylene
Concen: 0.414 ng
RT: 26.513 min Scan# 3
Delta R.T. -0.017 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:276 Resp: 354

Ion	Ratio	Lower	Upper
276	100		
277	27.5	22.2	33.4
138	29.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:46 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

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	60	0.00
2		1,4-Dioxane	0.444	0.488	-9.9	59	0.00
3		n-Nitrosodimethylamine	0.898	1.112	-23.8	71	0.00
4	S	2-Fluorophenol	0.932	0.932	0.0	57	0.00
5	S	Phenol-d6	1.152	1.154	-0.2	61	-0.01
6		bis(2-Chloroethyl)ether	1.190	1.168	1.8	59	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	66	-0.01
8	S	Nitrobenzene-d5	0.435	0.426	2.1	68	-0.01
9		Naphthalene	1.177	1.188	-0.9	65	-0.01
10		Hexachlorobutadiene	0.277	0.287	-3.6	65	-0.01
11	SURR	2-Methylnaphthalene-d10	0.595	0.600	-0.8	66	-0.02
12		2-Methylnaphthalene	0.749	0.753	-0.5	65	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	65	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.192	-5.5	67	-0.01
15	S	2-Fluorobiphenyl	2.327	2.408	-3.5	65	0.00
16		Acenaphthylene	1.888	1.961	-3.9	66	-0.01
17		Acenaphthene	1.236	1.278	-3.4	65	-0.01
18		Fluorene	1.672	1.769	-5.8	65	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	65	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.080	7.0	68	0.00
21		4-Bromophenyl-phenylether	0.251	0.268	-6.8	64	0.00
22		Hexachlorobenzene	0.303	0.324	-6.9	63	0.00
23		Atrazine	0.201	0.220	-9.5	68	0.00
24		Pentachlorophenol	0.138	0.164	-18.8	78	-0.01
25		Phenanthrene	1.200	1.313	-9.4	66	-0.01
26		Anthracene	1.083	1.155	-6.6	66	-0.01
27	SURR	Fluoranthene-d10	1.025	1.125	-9.8	66	0.00
28		Fluoranthene	1.348	1.502	-11.4	68	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	71	0.00
30		Pyrene	1.956	2.071	-5.9	69	0.00
31	S	Terphenyl-d14	0.958	0.968	-1.0	67	0.00
32		Benzo(a)anthracene	1.391	1.442	-3.7	71	0.00
33		Chrysene	1.520	1.686	-10.9	75	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	1.151	-16.3	79	0.00
35	I	Perylene-d12	1.000	1.000	0.0	75	-0.01
36		Indeno(1,2,3-cd)pyrene	1.444	1.458	-1.0	71	-0.01
37		Benzo(b)fluoranthene	1.456	1.675	-15.0	81	0.00
38		Benzo(k)fluoranthene	1.527	1.649	-8.0	77	0.00
39	C	Benzo(a)pyrene	1.226	1.403	-14.4	81	0.00
40		Dibenzo(a,h)anthracene	1.124	1.116	0.7	72	-0.01
41		Benzo(g,h,i)perylene	1.286	1.332	-3.6	72	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:46 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

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	60	0.00
2		1,4-Dioxane	0.400	0.440	-10.0	59	0.00
3		n-Nitrosodimethylamine	0.400	0.495	-23.7	71	0.00
4	S	2-Fluorophenol	0.400	0.400	0.0	57	0.00
5	S	Phenol-d6	0.400	0.401	-0.3	61	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.393	1.8	59	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	66	-0.01
8	S	Nitrobenzene-d5	0.400	0.392	2.0	68	-0.01
9		Naphthalene	0.400	0.404	-1.0	65	-0.01
10		Hexachlorobutadiene	0.400	0.414	-3.5	65	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.403	-0.8	66	-0.02
12		2-Methylnaphthalene	0.400	0.402	-0.5	65	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	65	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.423	-5.7	67	-0.01
15	S	2-Fluorobiphenyl	0.400	0.414	-3.5	65	0.00
16		Acenaphthylene	0.400	0.416	-4.0	66	-0.01
17		Acenaphthene	0.400	0.414	-3.5	65	-0.01
18		Fluorene	0.400	0.423	-5.7	65	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	65	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.458	-14.5	68	0.00
21		4-Bromophenyl-phenylether	0.400	0.428	-7.0	64	0.00
22		Hexachlorobenzene	0.400	0.428	-7.0	63	0.00
23		Atrazine	0.400	0.439	-9.7	68	0.00
24		Pentachlorophenol	0.400	0.475	-18.7	78	-0.01
25		Phenanthrene	0.400	0.438	-9.5	66	-0.01
26		Anthracene	0.400	0.427	-6.7	66	-0.01
27	SURR	Fluoranthene-d10	0.400	0.439	-9.7	66	0.00
28		Fluoranthene	0.400	0.446	-11.5	68	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	71	0.00
30		Pyrene	0.400	0.424	-6.0	69	0.00
31	S	Terphenyl-d14	0.400	0.404	-1.0	67	0.00
32		Benzo(a)anthracene	0.400	0.415	-3.7	71	0.00
33		Chrysene	0.400	0.444	-11.0	75	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.465	-16.3	79	0.00
35	I	Perylene-d12	0.400	0.400	0.0	75	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.404	-1.0	71	-0.01
37		Benzo(b)fluoranthene	0.400	0.460	-15.0	81	0.00
38		Benzo(k)fluoranthene	0.400	0.432	-8.0	77	0.00
39	C	Benzo(a)pyrene	0.400	0.458	-14.5	81	0.00
40		Dibenzo(a,h)anthracene	0.400	0.397	0.8	72	-0.01
41		Benzo(g,h,i)perylene	0.400	0.414	-3.5	72	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 04:52

Lab File ID: BN036681.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	0.521		-12.4	50.0
Fluoranthene-d10	1.025	0.920		-10.2	50.0
2-Fluorophenol	0.932	0.847		-9.1	50.0
Phenol-d6	1.152	0.989		-14.1	50.0
Nitrobenzene-d5	0.435	0.371		-14.7	50.0
2-Fluorobiphenyl	2.327	2.156		-7.3	50.0
2,4,6-Tribromophenol	0.182	0.158		-13.2	50.0
Terphenyl-d14	0.958	0.864		-9.8	50.0
1,4-Dioxane	0.444	0.465		4.7	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\BN031725\
Data File : BN036681.D
Acq On : 18 Mar 2025 04:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 06:01:22 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

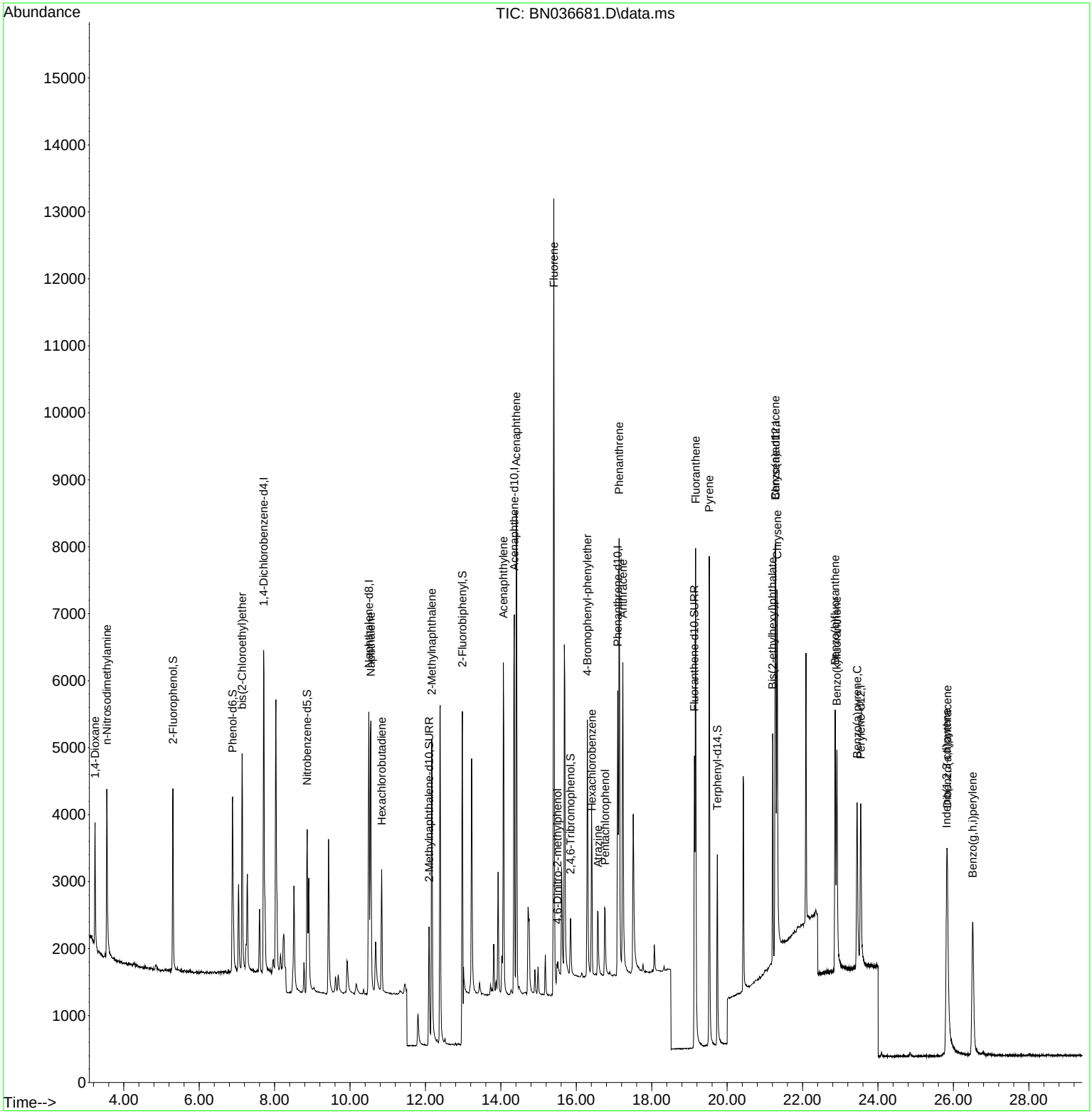
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.710	152	2370	0.400	ng		-0.01
7) Naphthalene-d8	10.498	136	5736	0.400	ng		#-0.01
13) Acenaphthene-d10	14.356	164	3310	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	6088	0.400	ng		-0.01
29) Chrysene-d12	21.286	240	4030	0.400	ng		0.00
35) Perylene-d12	23.543	264	3645	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	2007	0.363	ng		0.00
5) Phenol-d6	6.887	99	2343	0.343	ng		-0.01
8) Nitrobenzene-d5	8.865	82	2129	0.341	ng		-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2986	0.350	ng		-0.02
14) 2,4,6-Tribromophenol	15.845	330	524	0.349	ng		-0.01
15) 2-Fluorobiphenyl	12.978	172	7136	0.371	ng		0.00
27) Fluoranthene-d10	19.132	212	5604	0.359	ng		0.00
31) Terphenyl-d14	19.740	244	3480	0.360	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	1101	0.419	ng		96
3) n-Nitrosodimethylamine	3.550	42	2150	0.404	ng		93
6) bis(2-Chloroethyl)ether	7.139	93	2370	0.336	ng		99
9) Naphthalene	10.552	128	5983	0.355	ng		99
10) Hexachlorobutadiene	10.840	225	1441	0.363	ng	#	98
12) 2-Methylnaphthalene	12.167	142	3784	0.352	ng		98
16) Acenaphthylene	14.067	152	5557	0.356	ng		100
17) Acenaphthene	14.409	154	3696	0.361	ng		99
18) Fluorene	15.403	166	4936	0.357	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	413	0.411	ng	#	76
21) 4-Bromophenyl-phenylether	16.292	248	1467	0.385	ng	#	87
22) Hexachlorobenzene	16.416	284	1807	0.392	ng		96
23) Atrazine	16.578	200	1154	0.377	ng		91
24) Pentachlorophenol	16.764	266	705	0.336	ng		100
25) Phenanthrene	17.136	178	6954	0.381	ng		100
26) Anthracene	17.235	178	6199	0.376	ng		99
28) Fluoranthene	19.164	202	7526	0.367	ng		98
30) Pyrene	19.527	202	7489	0.380	ng		100
32) Benzo(a)anthracene	21.277	228	4888	0.349	ng		98
33) Chrysene	21.331	228	5847	0.382	ng		99
34) Bis(2-ethylhexyl)phtha...	21.205	149	3635	0.364	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.820	276	5036	0.383	ng		96
37) Benzo(b)fluoranthene	22.864	252	4884	0.368	ng		98
38) Benzo(k)fluoranthene	22.908	252	5003	0.359	ng		94
39) Benzo(a)pyrene	23.446	252	4250	0.380	ng		94
40) Dibenzo(a,h)anthracene	25.838	278	3996	0.390	ng		94
41) Benzo(g,h,i)perylene	26.510	276	4592	0.392	ng		95

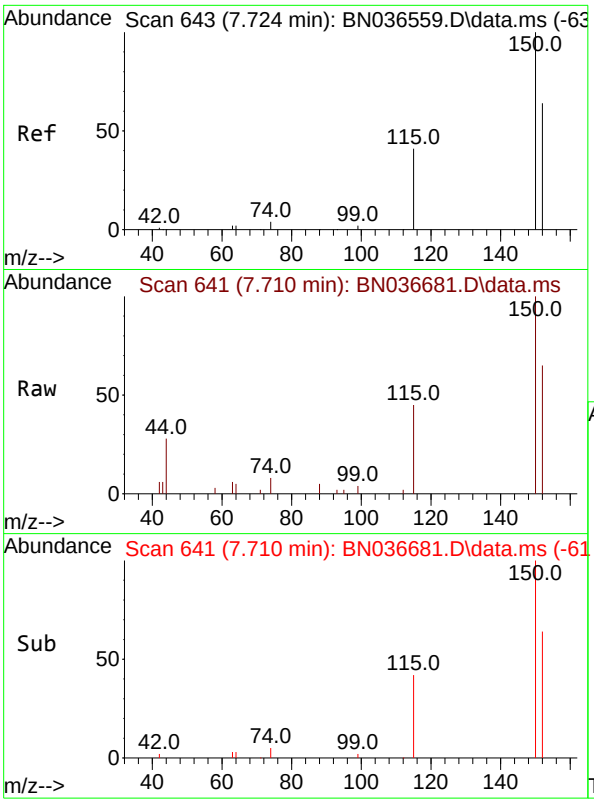
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036681.D
Acq On : 18 Mar 2025 04:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 06:01:22 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



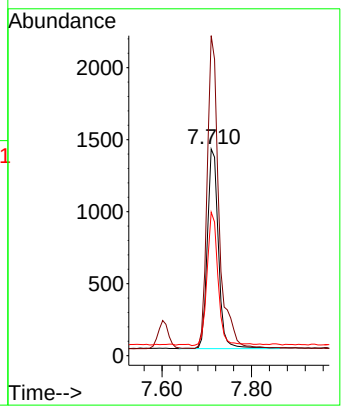


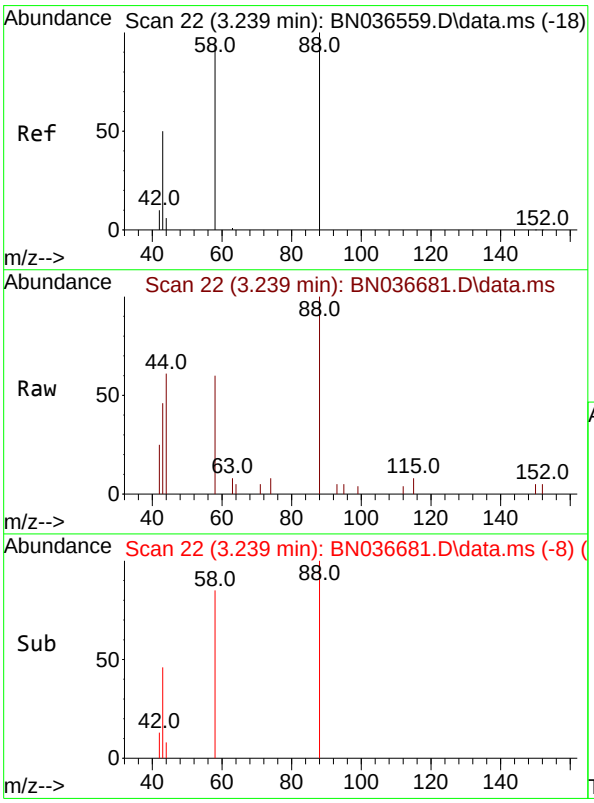
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2370

Ion	Ratio	Lower	Upper
152	100		
150	154.8	123.7	185.5
115	69.4	54.3	81.5

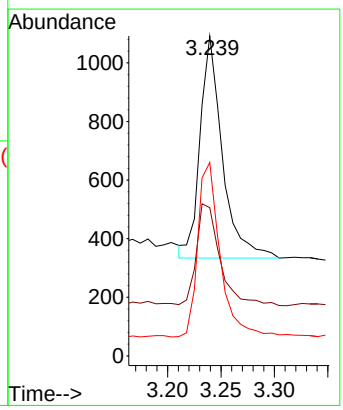


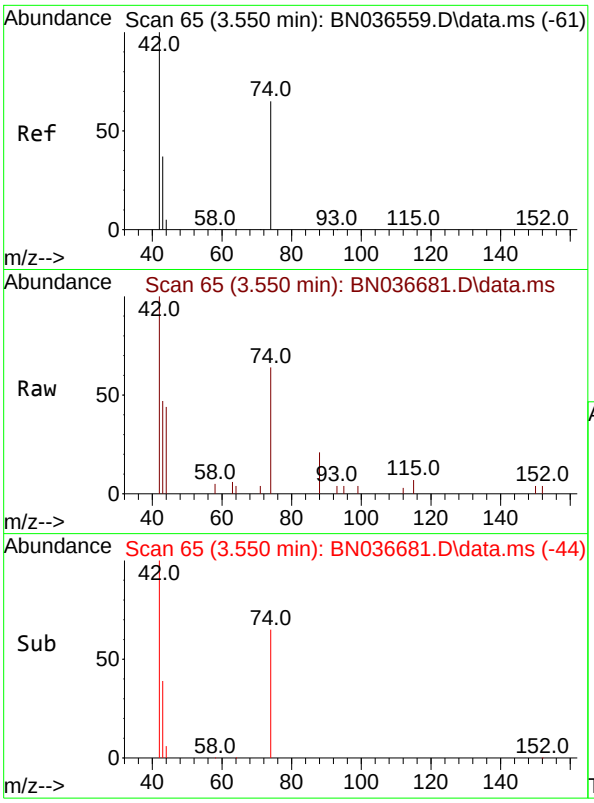


#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion: 88 Resp: 1101

Ion	Ratio	Lower	Upper
88	100		
43	48.5	37.8	56.8
58	79.0	67.4	101.2



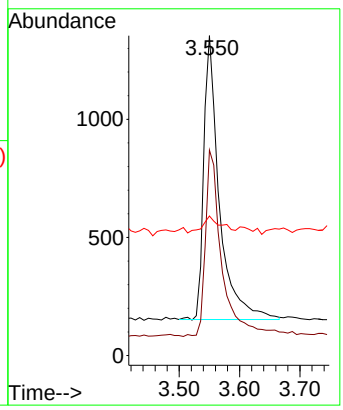


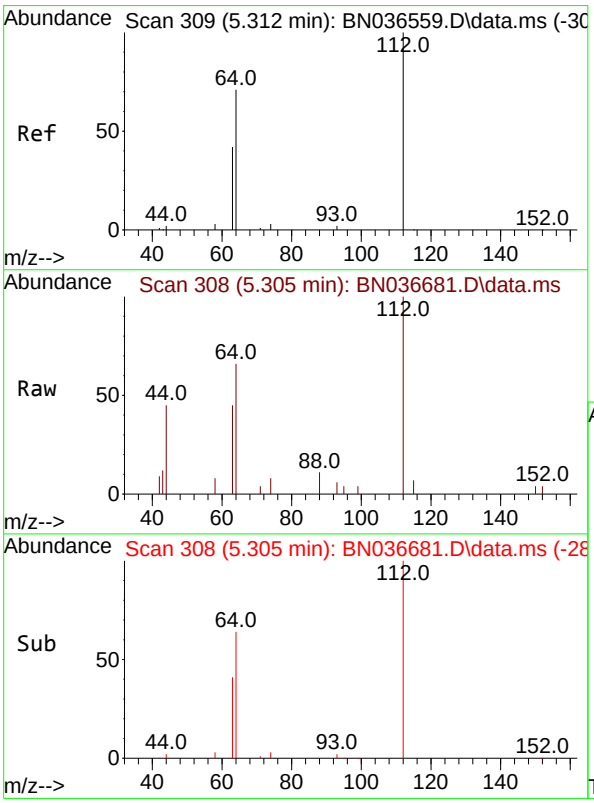
#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2150

Ion	Ratio	Lower	Upper
42	100		
74	69.4	60.6	90.8
44	8.2	6.3	9.5

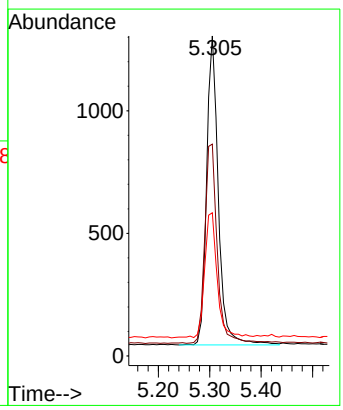


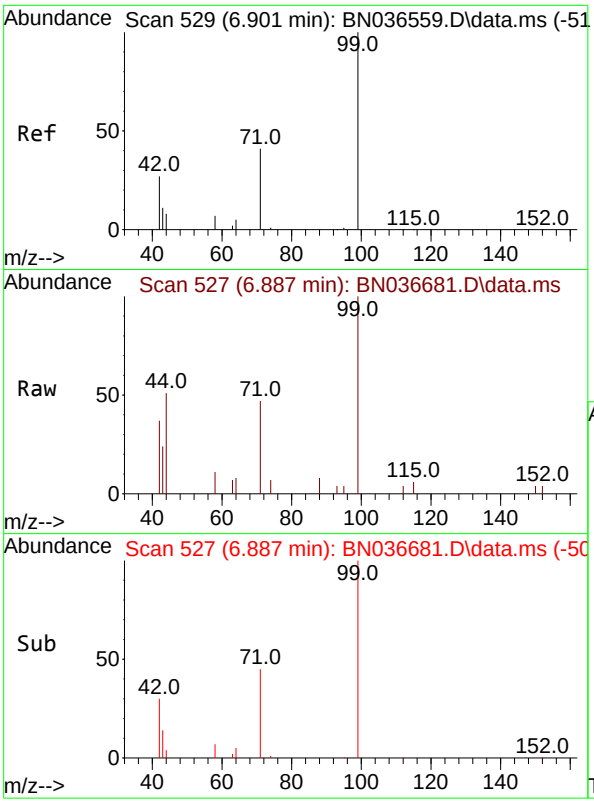


#4
2-Fluorophenol
Concen: 0.363 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:112 Resp: 2007

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.1	79.7
63	43.7	31.8	47.8



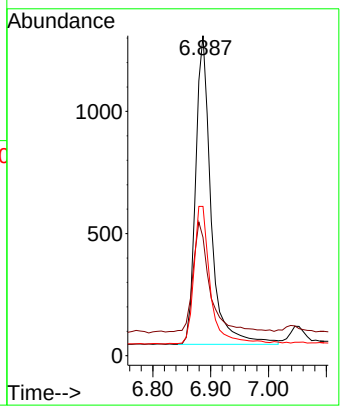


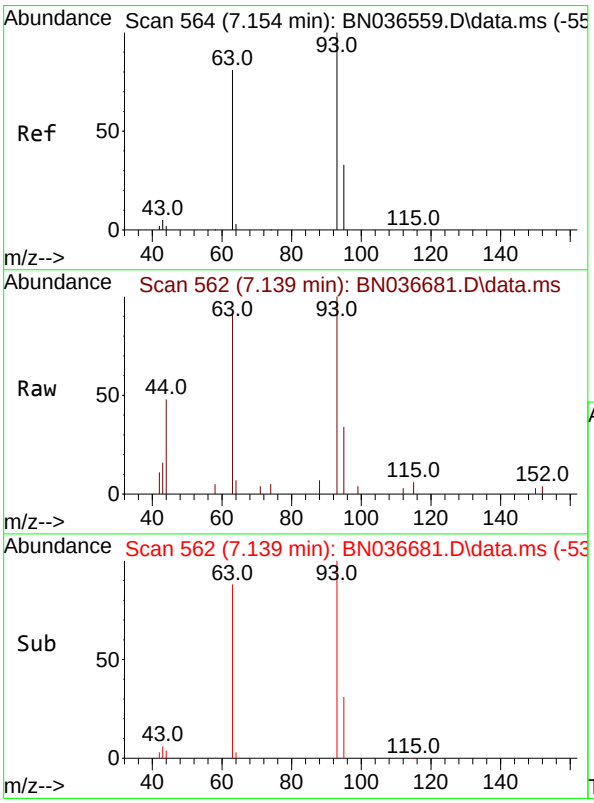
#5
Phenol-d6
Concen: 0.343 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 2343

Ion	Ratio	Lower	Upper
99	100		
42	38.8	26.5	39.7
71	46.9	34.1	51.1

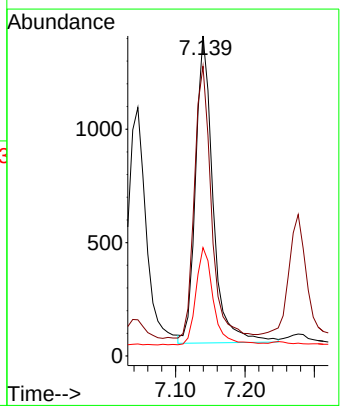


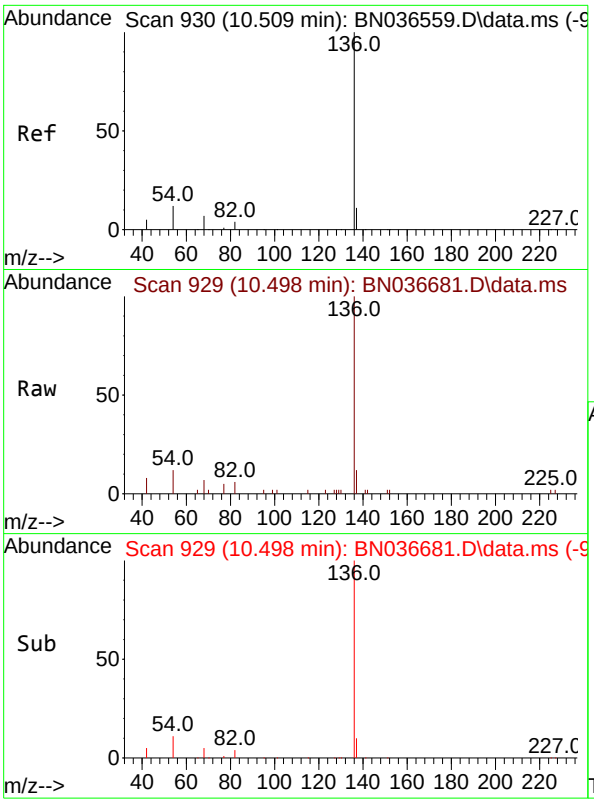


#6
bis(2-Chloroethyl)ether
Concen: 0.336 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion: 93 Resp: 2370

Ion	Ratio	Lower	Upper
93	100		
63	85.8	67.7	101.5
95	31.1	25.6	38.4



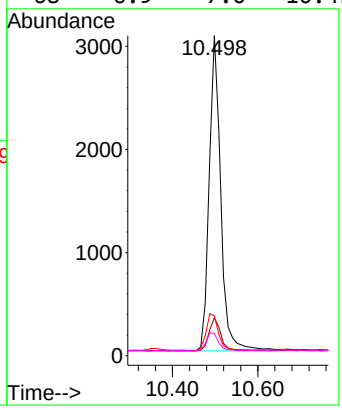


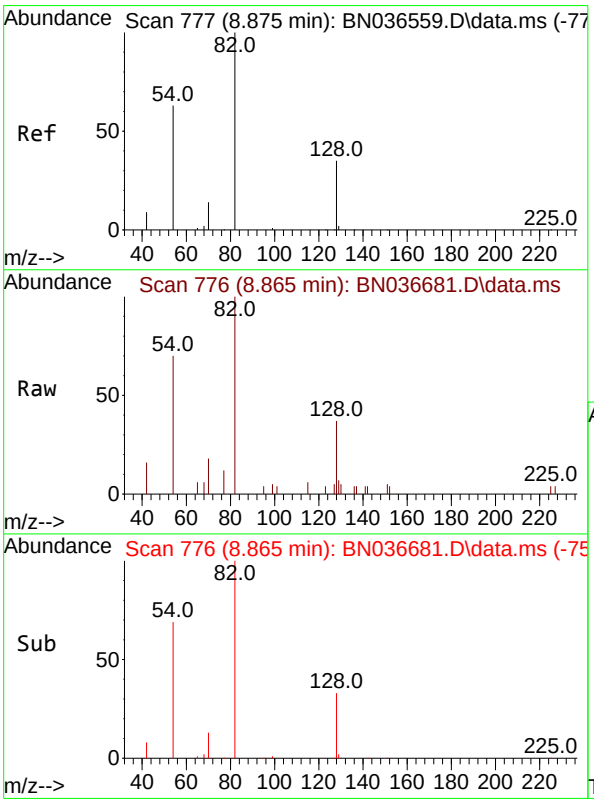
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 5736

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	6.9	7.0	10.4#

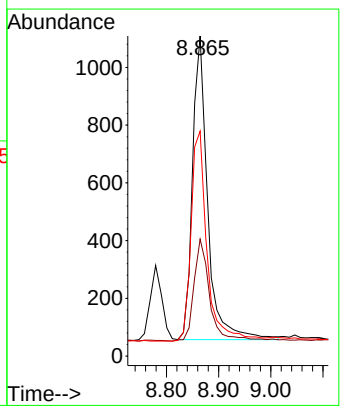


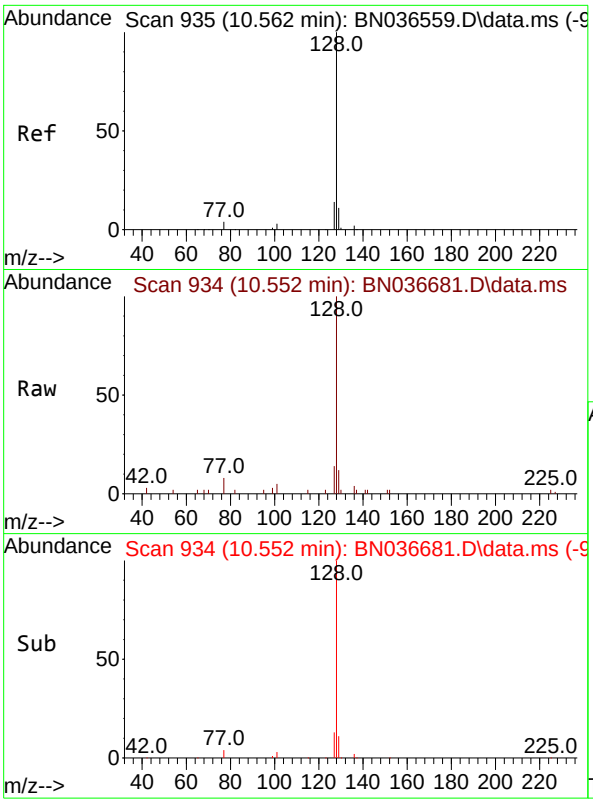


#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion: 82 Resp: 2129

Ion	Ratio	Lower	Upper
82	100		
128	36.5	30.6	45.8
54	70.2	52.2	78.4



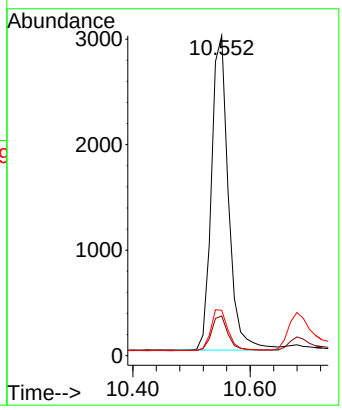


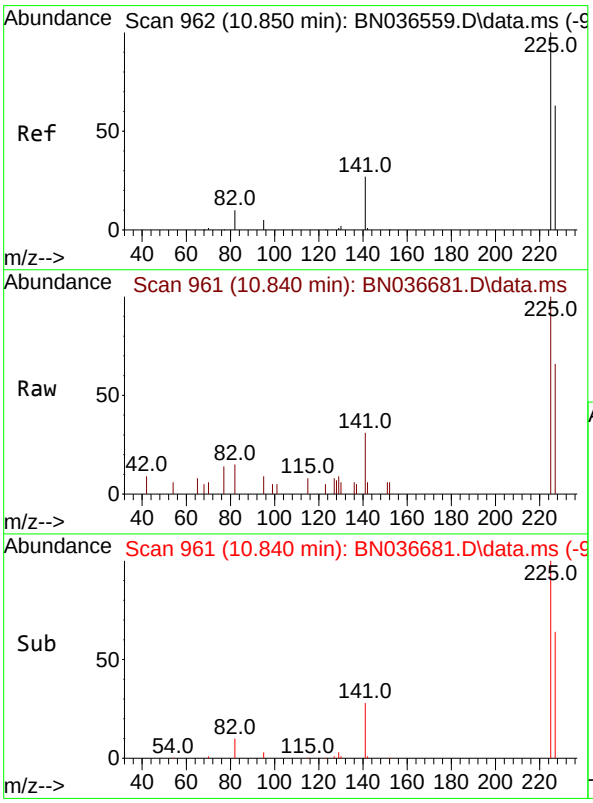
#9
Naphthalene
Concen: 0.355 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 5983

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.2	11.8	17.8

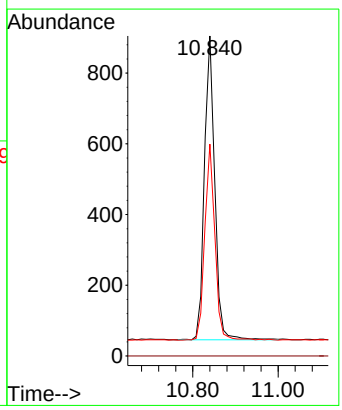


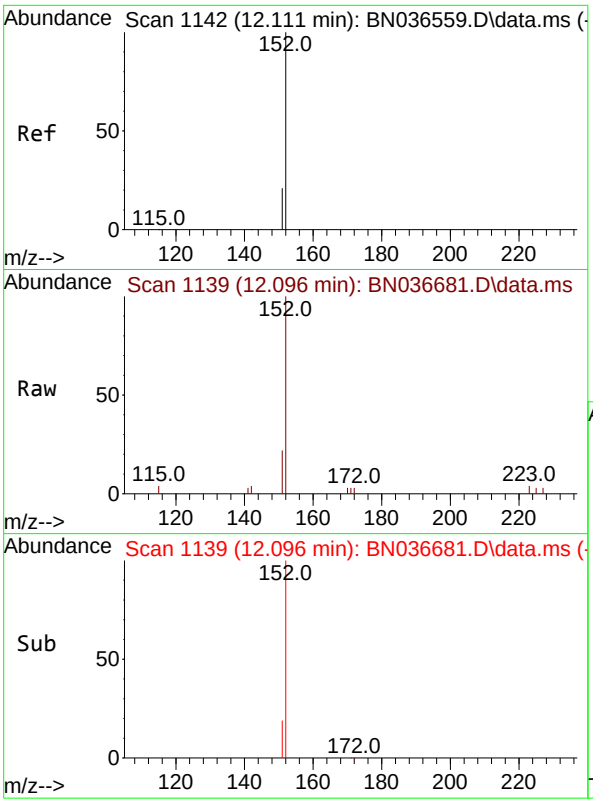


#10
Hexachlorobutadiene
Concen: 0.363 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:225 Resp: 1441

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8



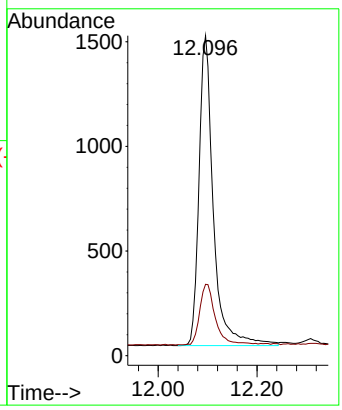


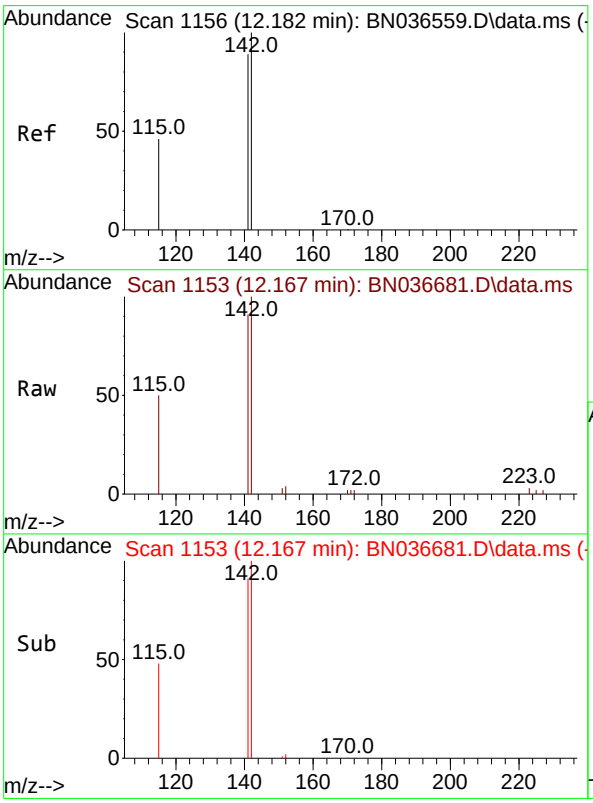
#11
2-Methylnaphthalene-d10
Concen: 0.350 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2986

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

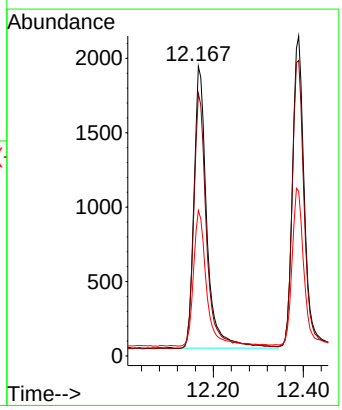


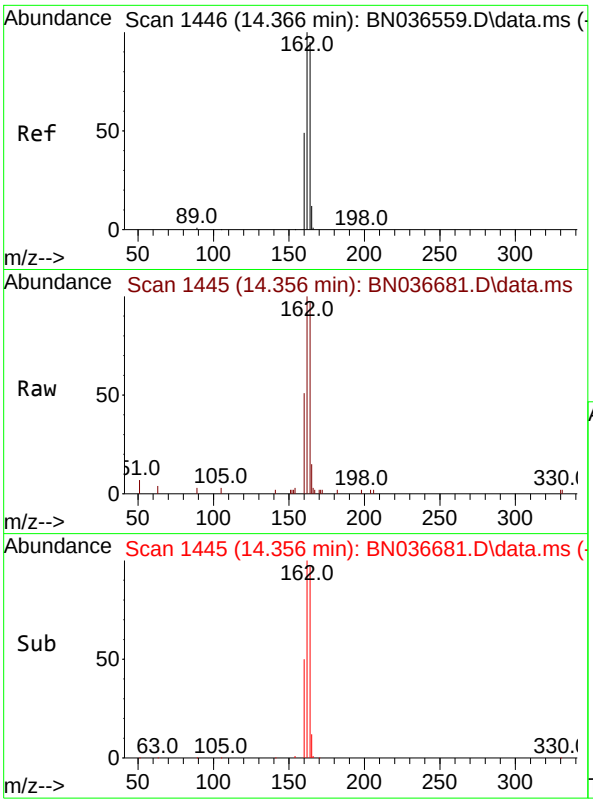


#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.015 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:142 Resp: 3784

Ion	Ratio	Lower	Upper
142	100		
141	90.6	71.7	107.5
115	50.2	38.3	57.5



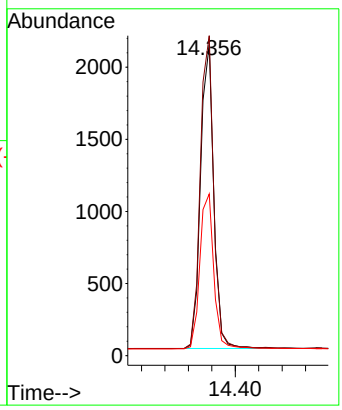


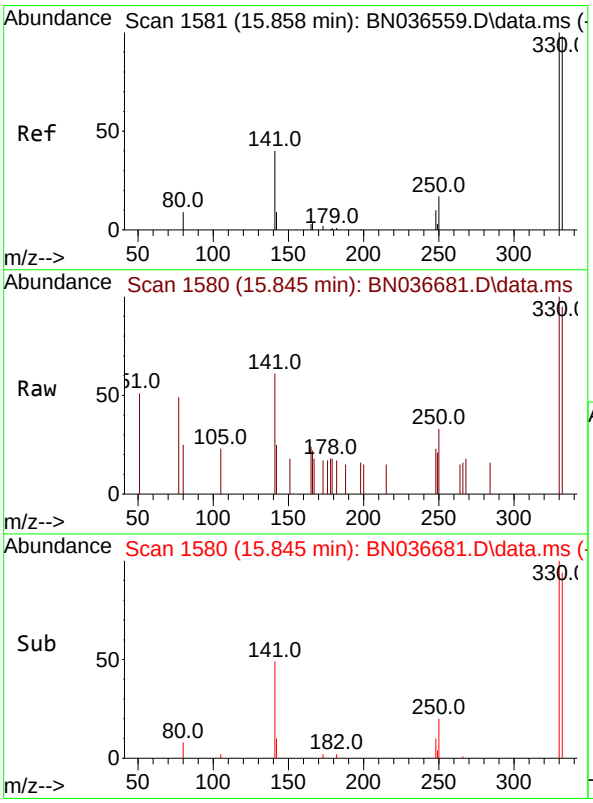
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3310

Ion	Ratio	Lower	Upper
164	100		
162	102.8	84.2	126.2
160	52.0	42.2	63.2

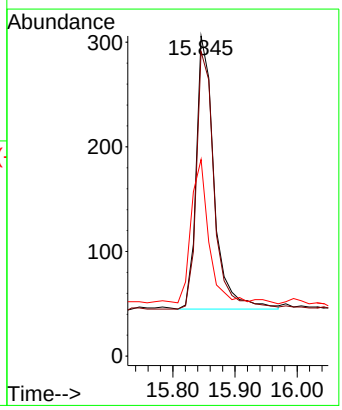


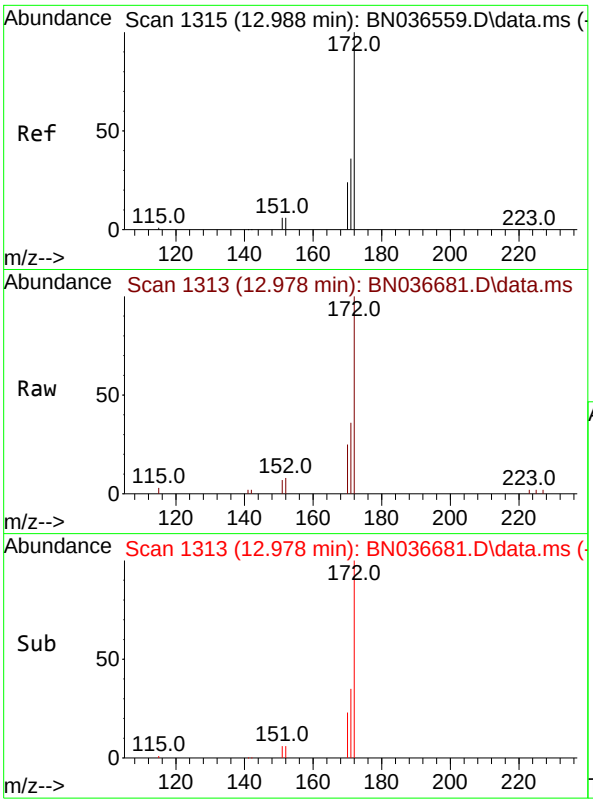


#14
2,4,6-Tribromophenol
Concen: 0.349 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:330 Resp: 524

Ion	Ratio	Lower	Upper
330	100		
332	95.0	75.2	112.8
141	54.6	43.4	65.2



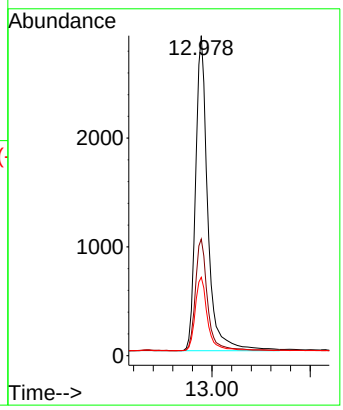


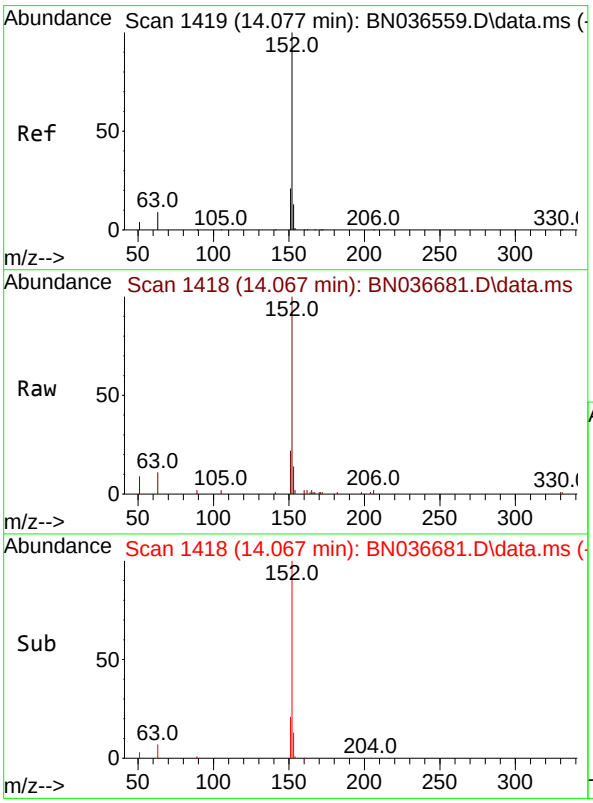
#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 7136

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.5	44.3
170	24.5	20.2	30.4

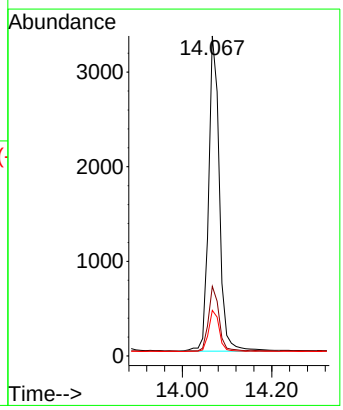


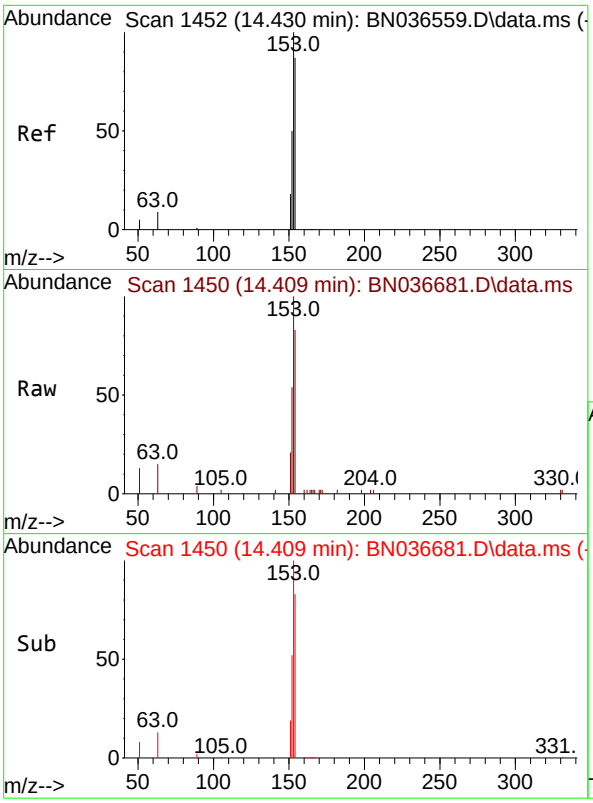


#16
Acenaphthylene
Concen: 0.356 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:152 Resp: 5557

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.3	10.6	15.8



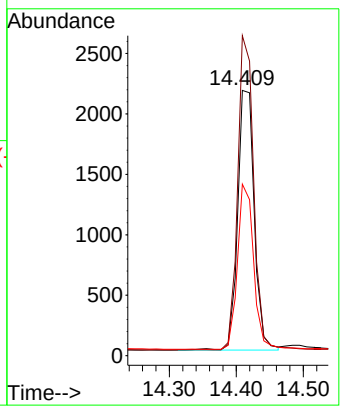


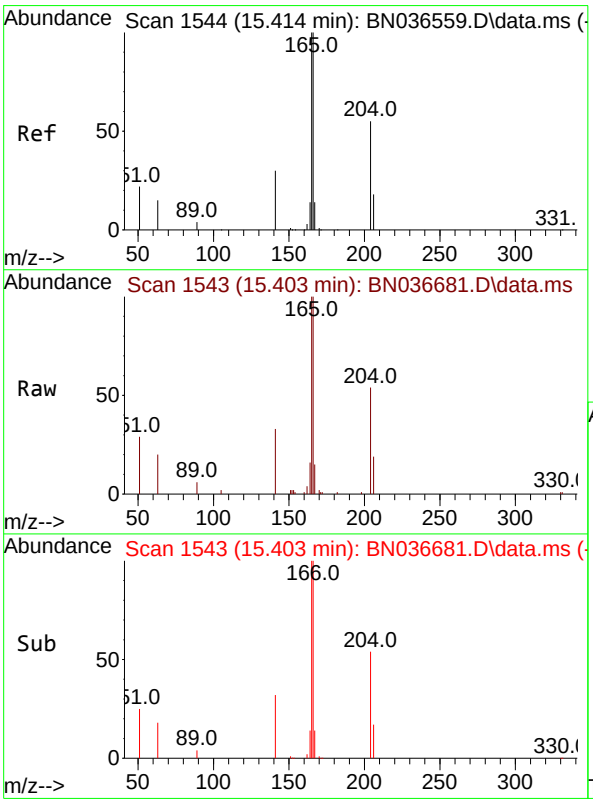
#17
Acenaphthene
Concen: 0.361 ng
RT: 14.409 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3696

Ion	Ratio	Lower	Upper
154	100		
153	117.2	94.1	141.1
152	63.1	49.8	74.6

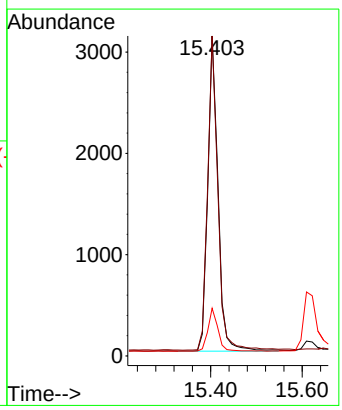


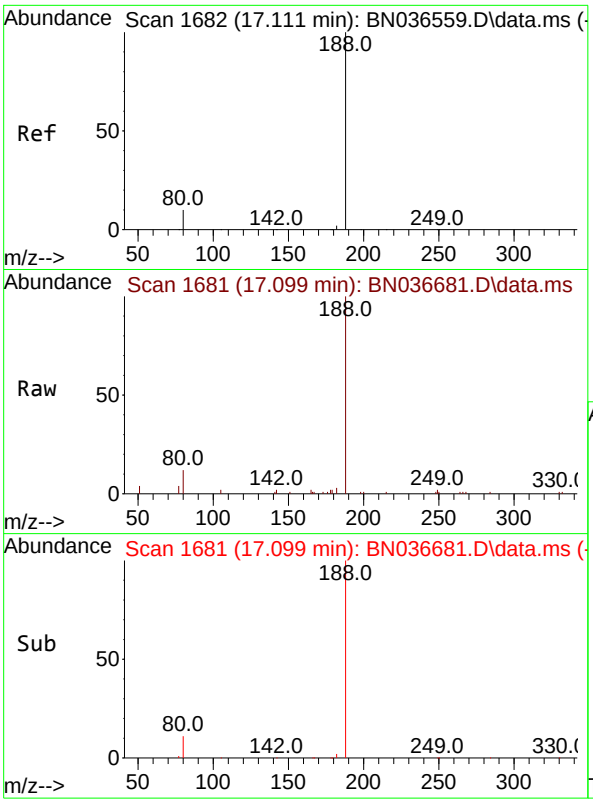


#18
Fluorene
Concen: 0.357 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:166 Resp: 4936

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.8	119.8
167	13.1	10.6	15.8



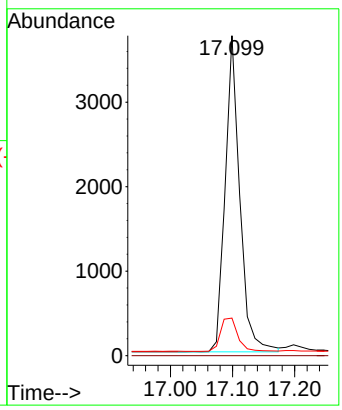


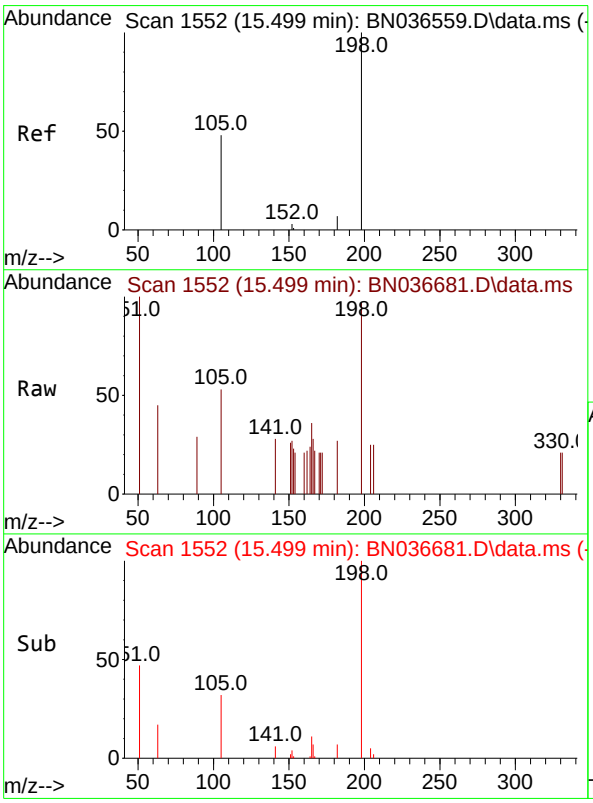
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 6088

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

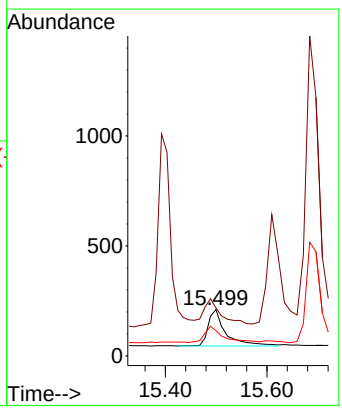


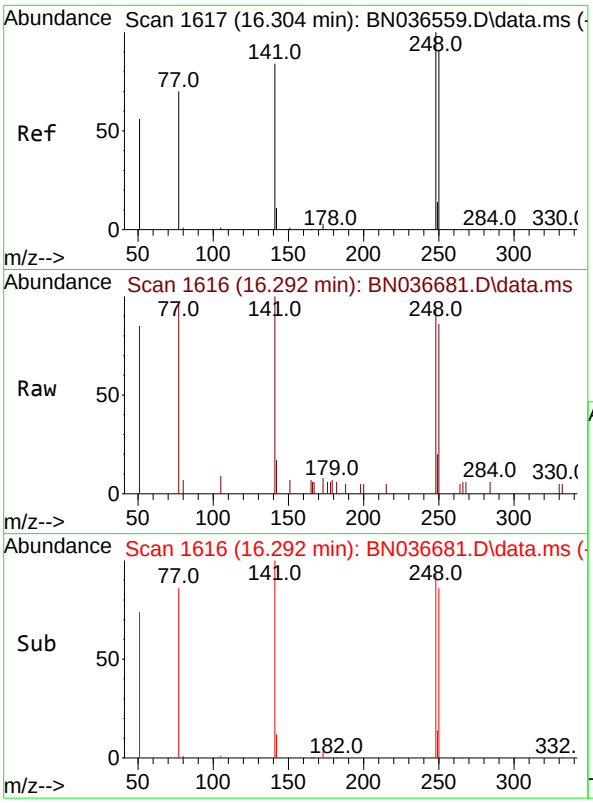


#20
4,6-Dinitro-2-methylphenol
Concen: 0.411 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:198 Resp: 413

Ion	Ratio	Lower	Upper
198	100		
51	103.3	107.9	161.9#
105	54.5	56.2	84.2#



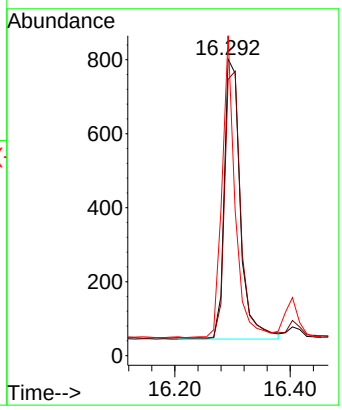


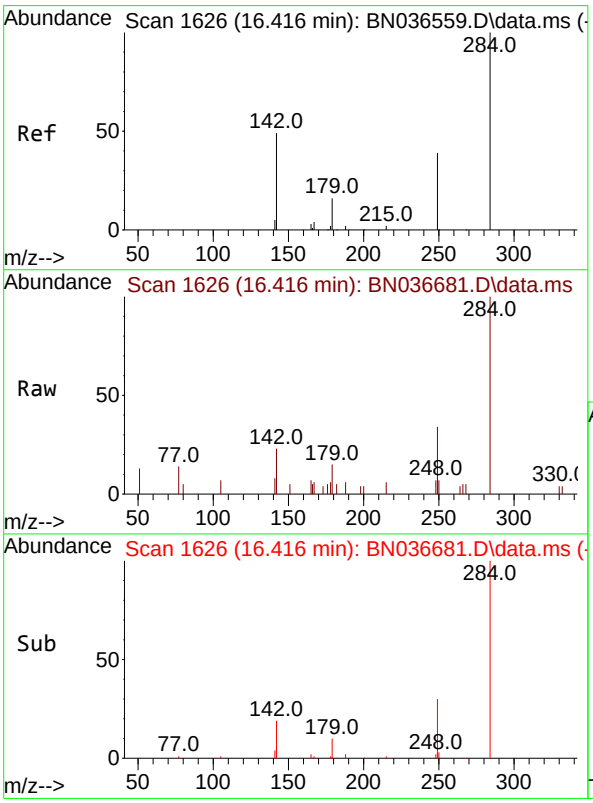
#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.292 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1467

Ion	Ratio	Lower	Upper
248	100		
250	93.1	73.0	109.6
141	107.9	68.6	103.0#

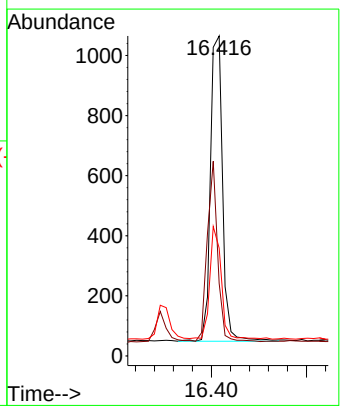


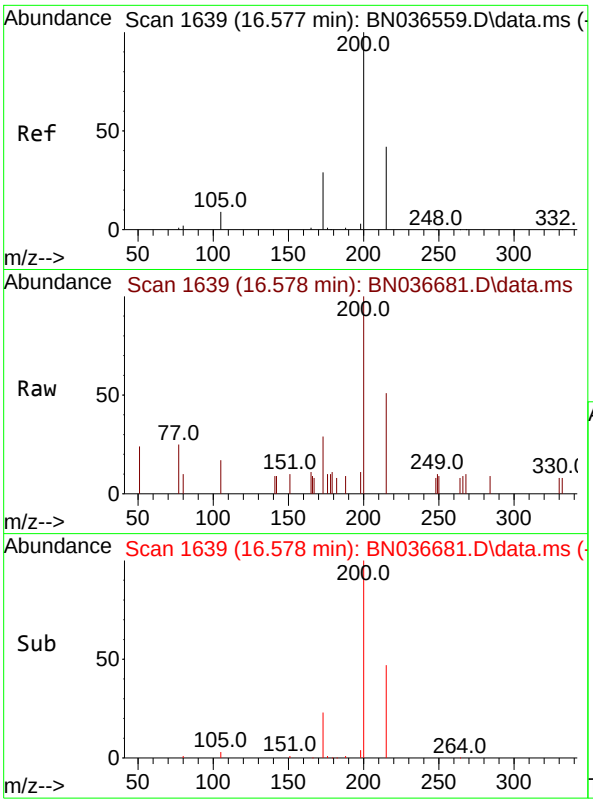


#22
Hexachlorobenzene
Concen: 0.392 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:284 Resp: 1807

Ion	Ratio	Lower	Upper
284	100		
142	50.7	37.0	55.4
249	34.9	28.1	42.1



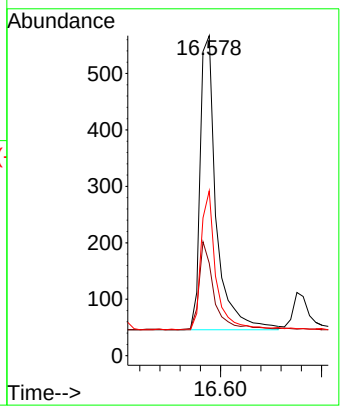


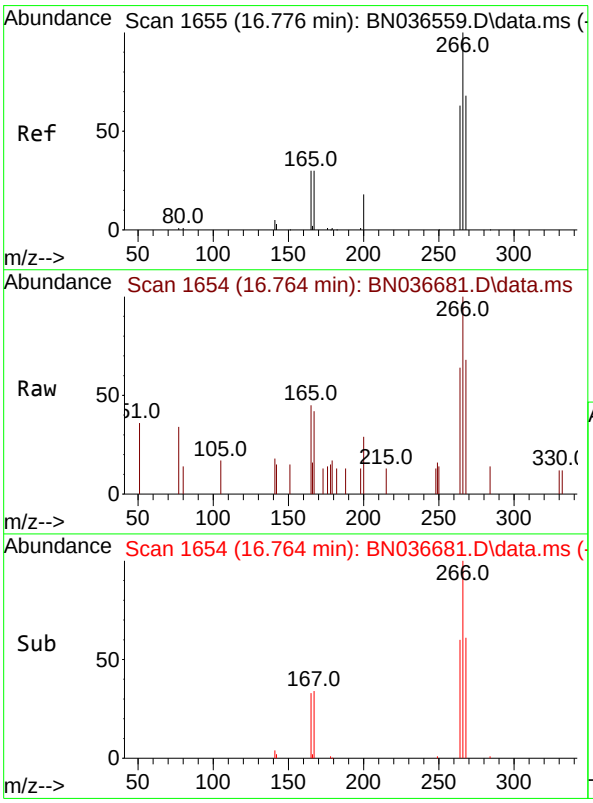
#23
Atrazine
Concen: 0.377 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1154

Ion	Ratio	Lower	Upper
200	100		
173	28.9	27.3	40.9
215	51.5	36.8	55.2

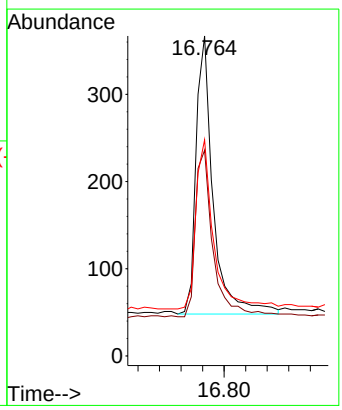


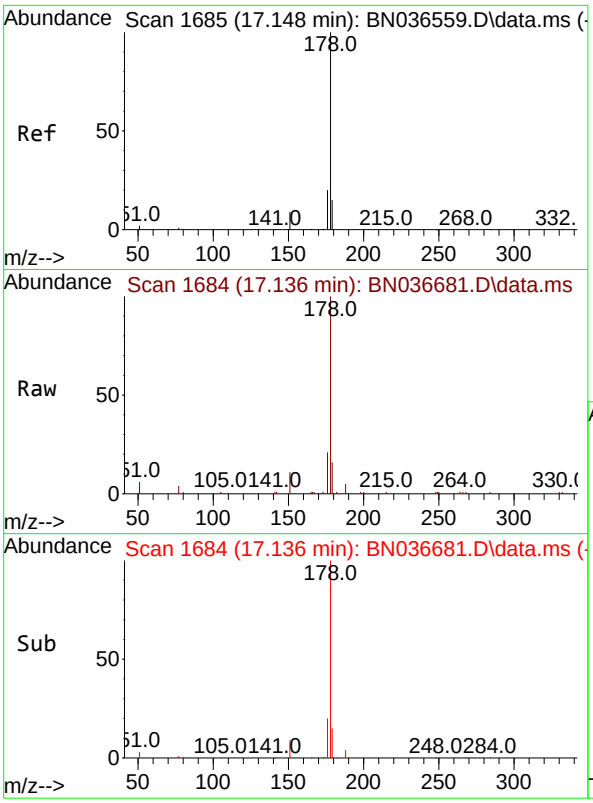


#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:266 Resp: 705

Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.6	74.4
268	63.4	50.9	76.3



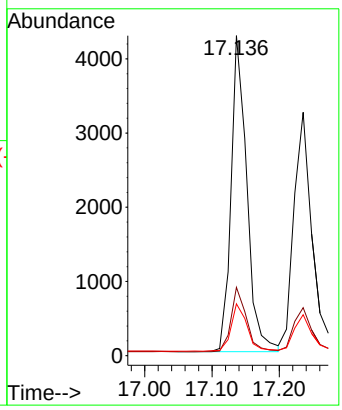


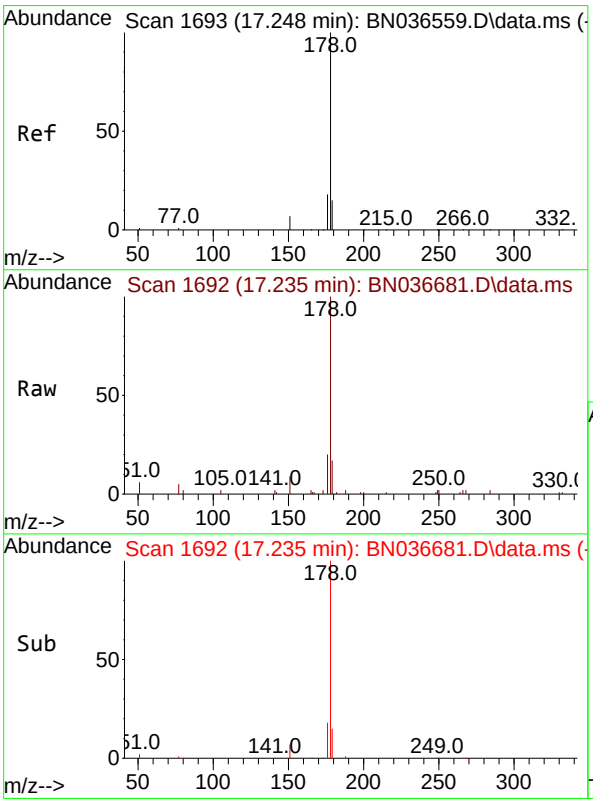
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.136 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6954

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.3	12.2	18.4

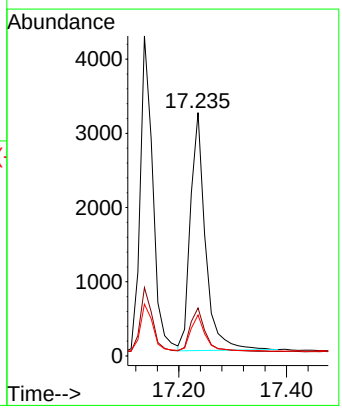


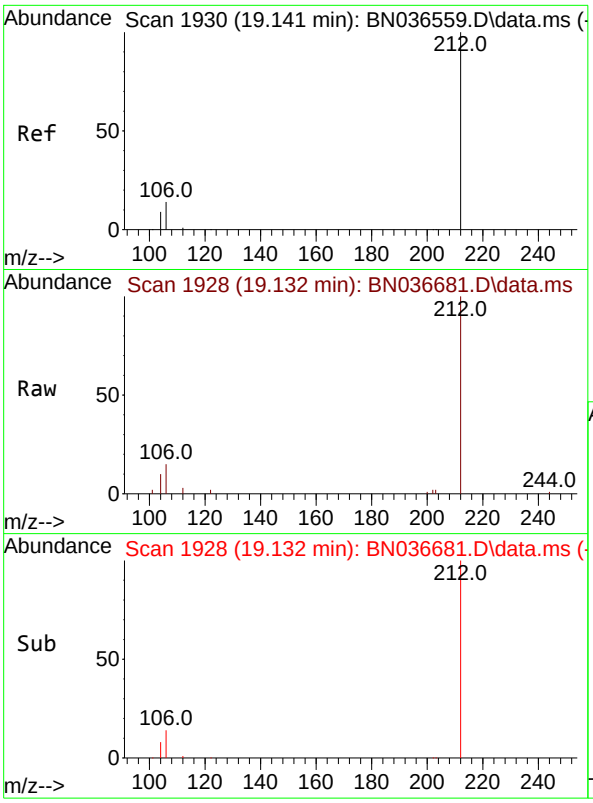


#26
Anthracene
Concen: 0.376 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:178 Resp: 6199

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.3	12.6	18.8



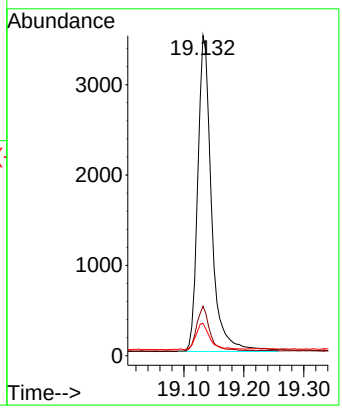


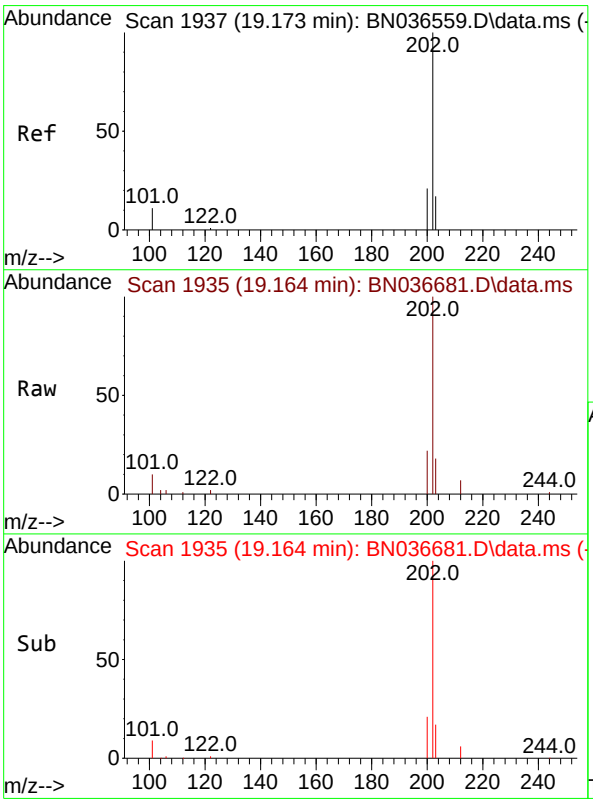
#27
Fluoranthene-d10
Concen: 0.359 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 5604

Ion	Ratio	Lower	Upper
212	100		
106	13.7	11.8	17.6
104	8.8	7.3	10.9

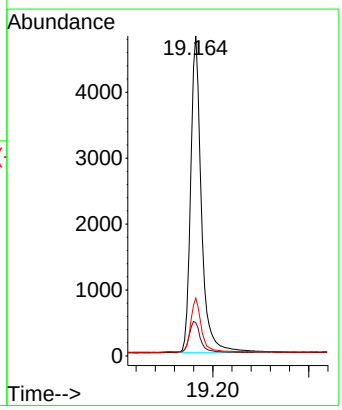


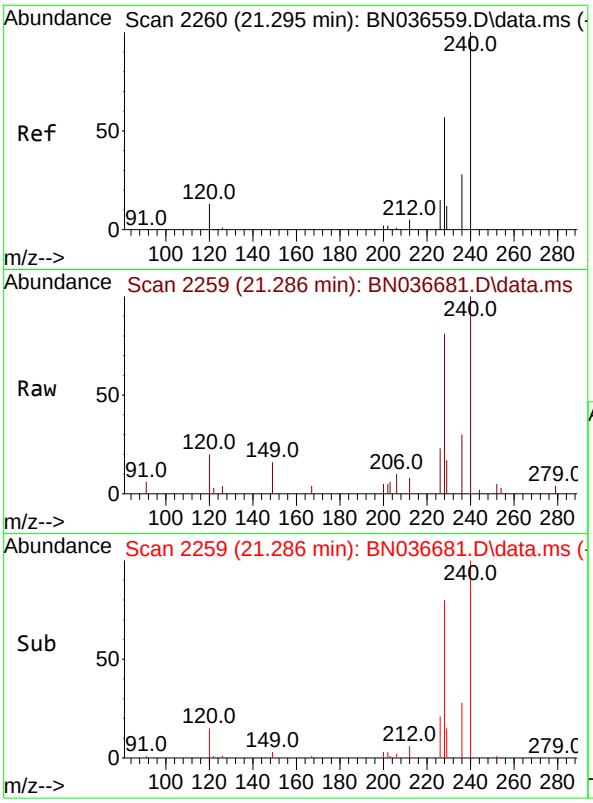


#28
Fluoranthene
Concen: 0.367 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:202 Resp: 7526

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.5	13.5	20.3



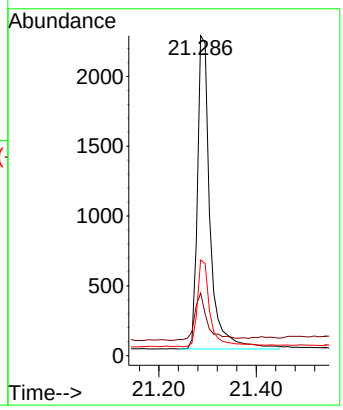


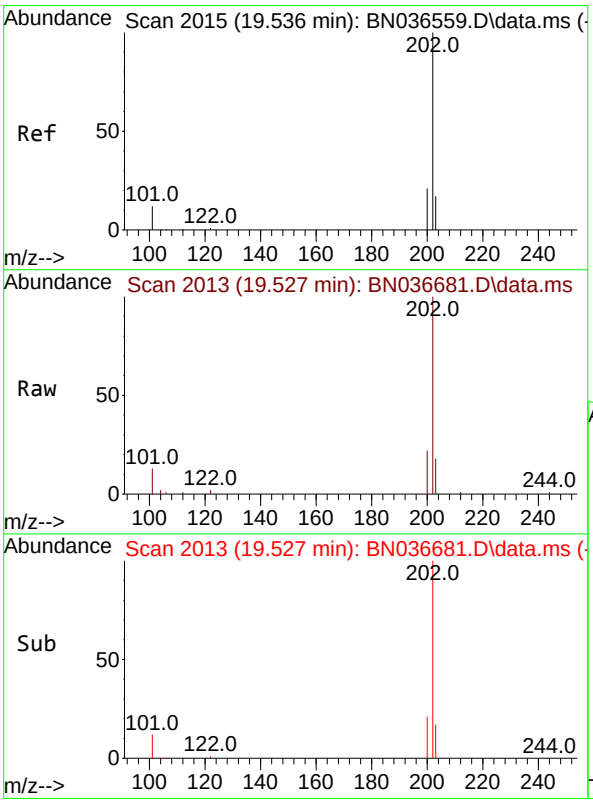
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 4030

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

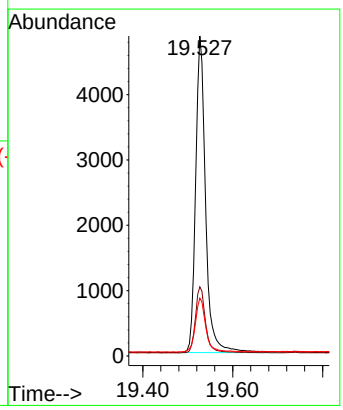


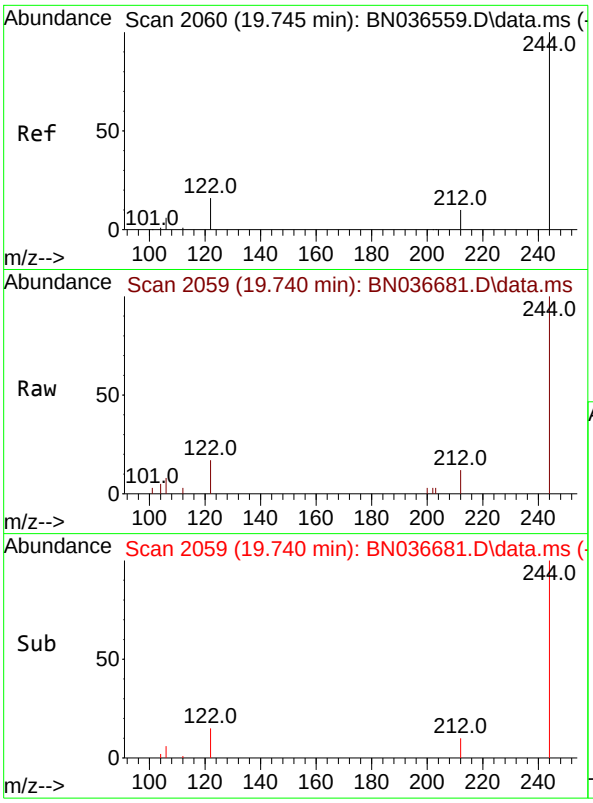


#30
Pyrene
Concen: 0.380 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:202 Resp: 7489

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.6	14.1	21.1



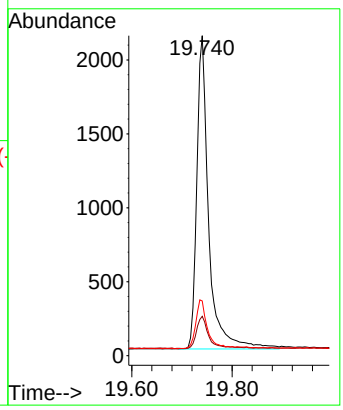


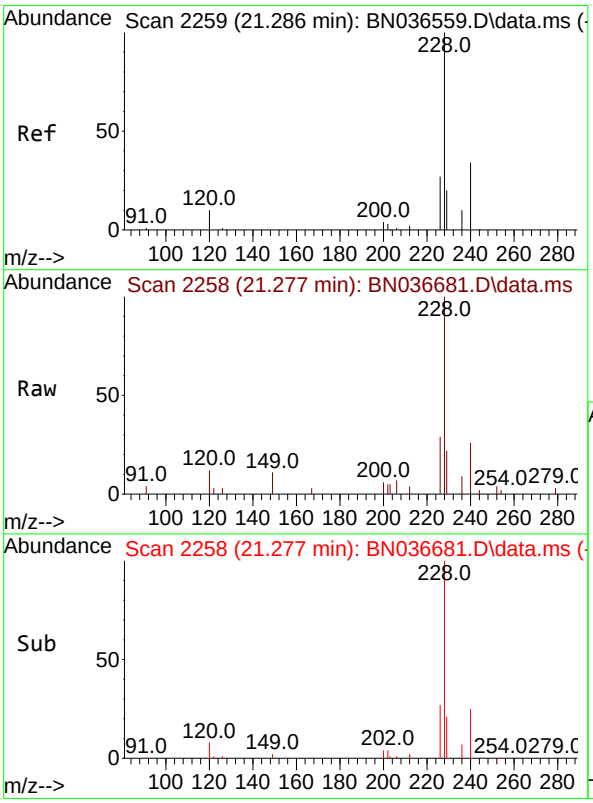
#31
Terphenyl-d14
Concen: 0.360 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3480

Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.6	14.4
122	17.1	13.9	20.9

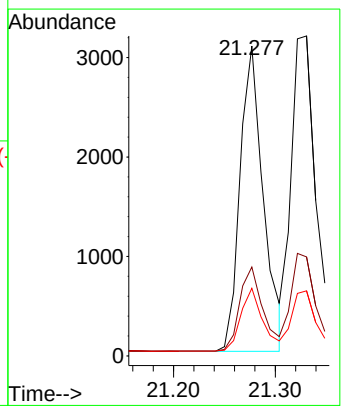


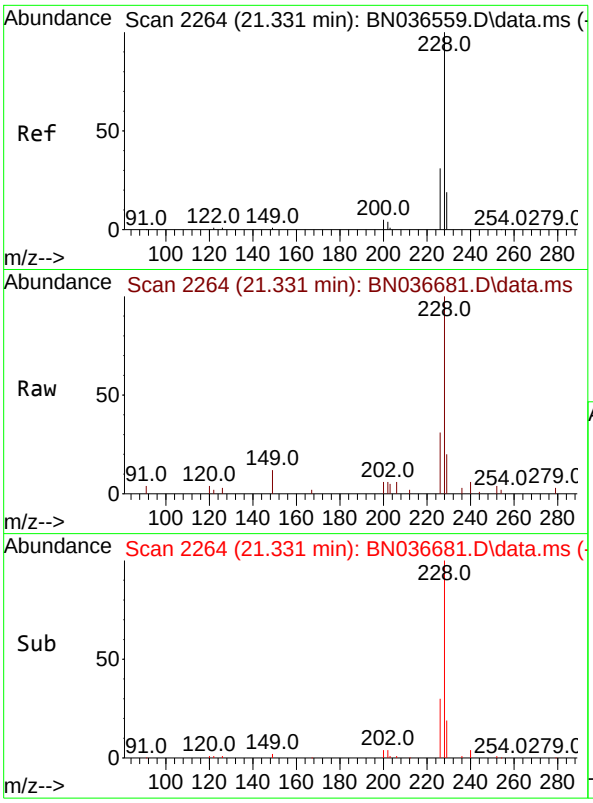


#32
Benzo(a)anthracene
Concen: 0.349 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:228 Resp: 4888

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	21.8	16.6	25.0



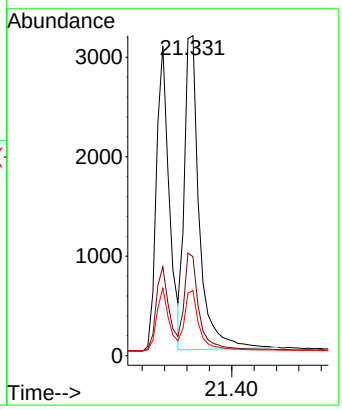


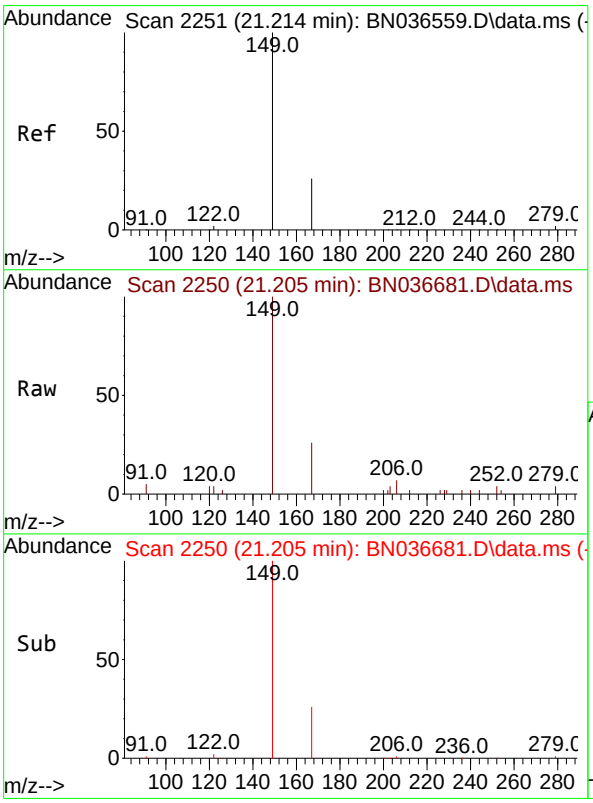
#33
Chrysene
Concen: 0.382 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 5847

Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.3	37.9
229	20.3	15.8	23.8

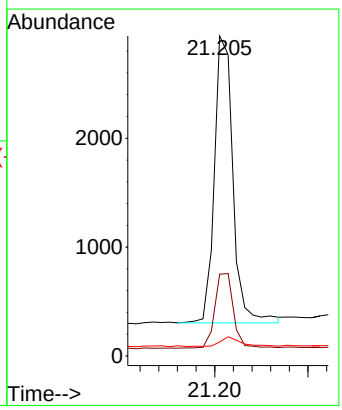


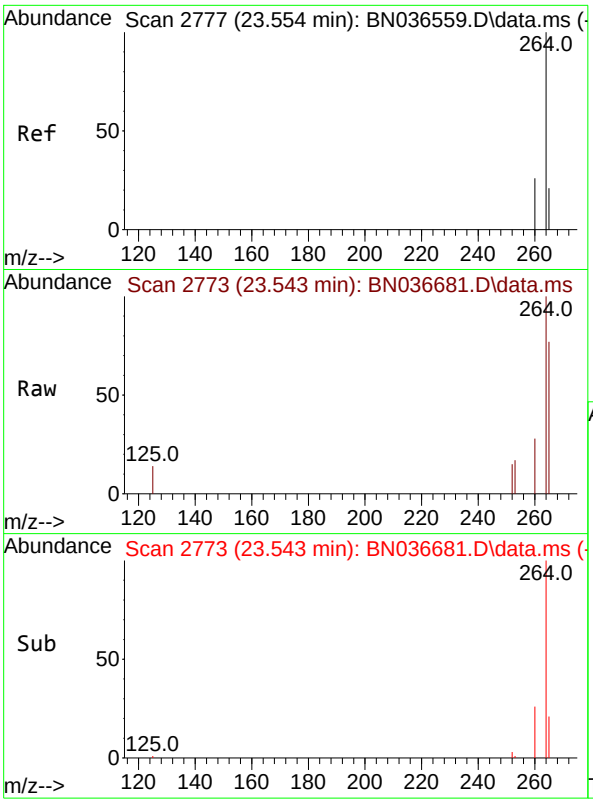


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.364 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:149 Resp: 3635

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	3.4	3.6	5.4#



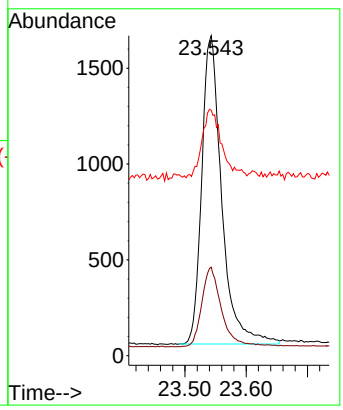


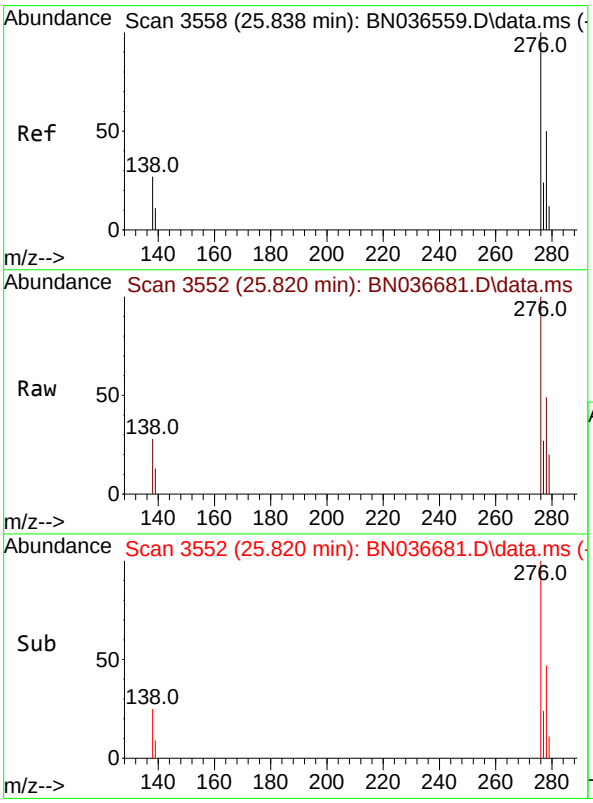
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 3645

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.6	33.8
265	76.7	88.1	132.1#

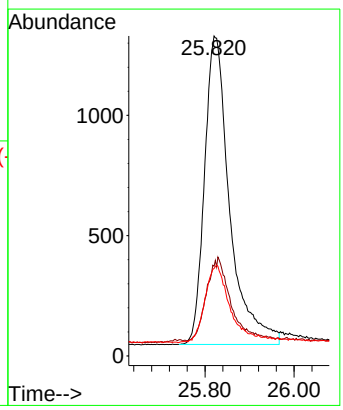


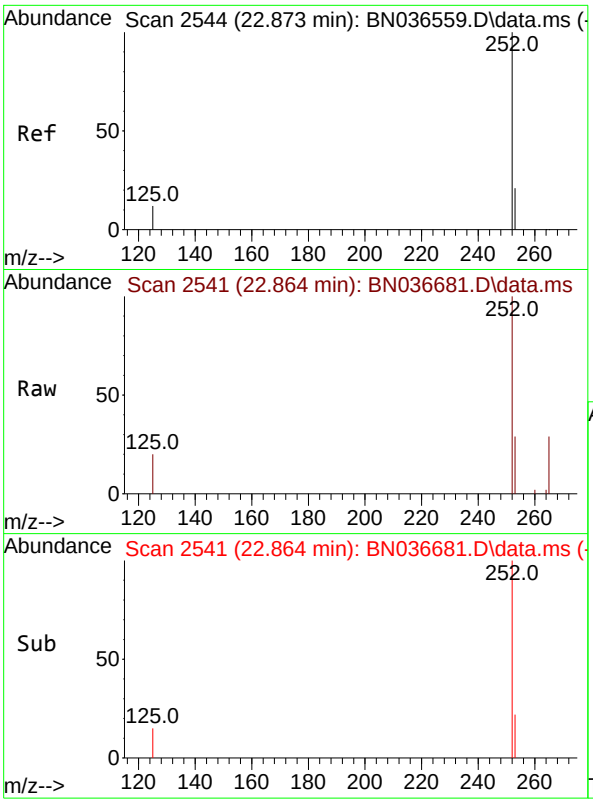


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.383 ng
RT: 25.820 min Scan# 3552
Delta R.T. -0.017 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:276 Resp: 5036

Ion	Ratio	Lower	Upper
276	100		
138	25.8	23.4	35.2
277	24.3	20.0	30.0



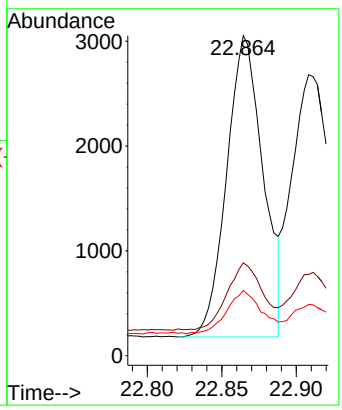


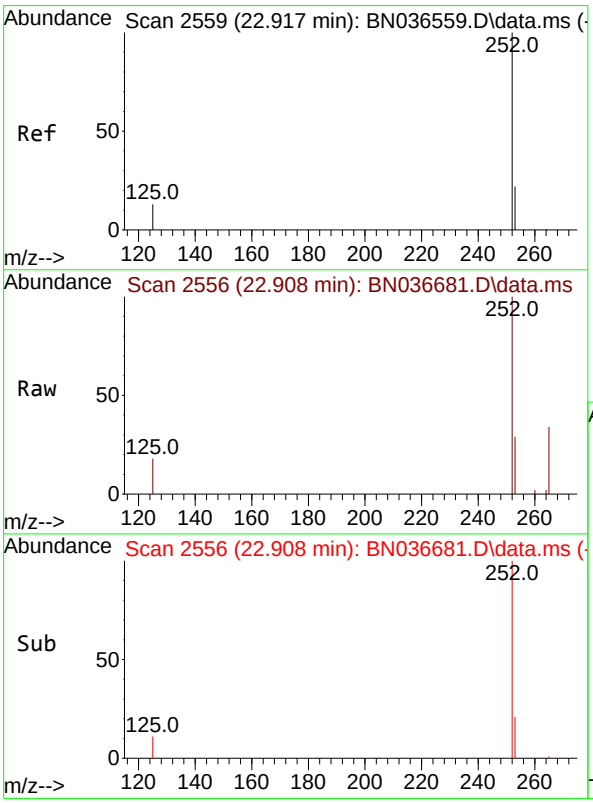
#37
Benzo(b)fluoranthene
Concen: 0.368 ng
RT: 22.864 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4884

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.9	35.9
125	20.4	17.4	26.2

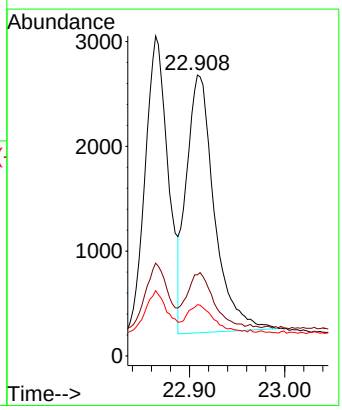


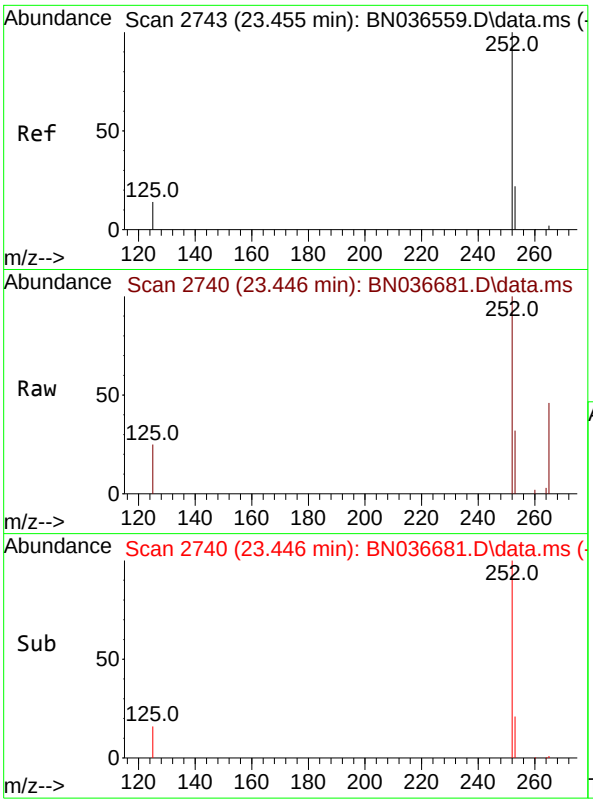


#38
Benzo(k)fluoranthene
Concen: 0.359 ng
RT: 22.908 min Scan# 2556
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:252 Resp: 5003

Ion	Ratio	Lower	Upper
252	100		
253	28.9	24.6	36.8
125	18.2	17.8	26.8



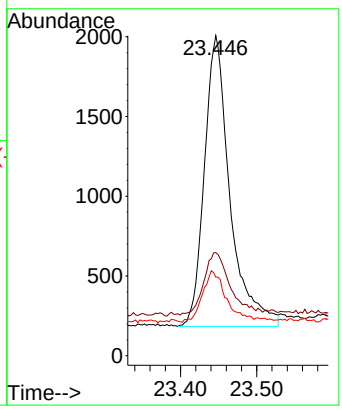


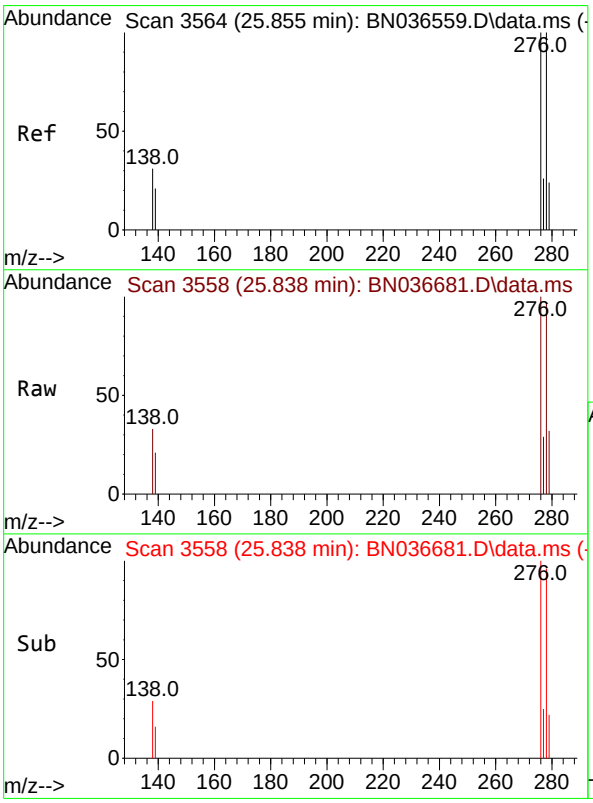
#39
Benzo(a)pyrene
Concen: 0.380 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4250

Ion	Ratio	Lower	Upper
252	100		
253	32.2	27.8	41.8
125	24.6	22.7	34.1

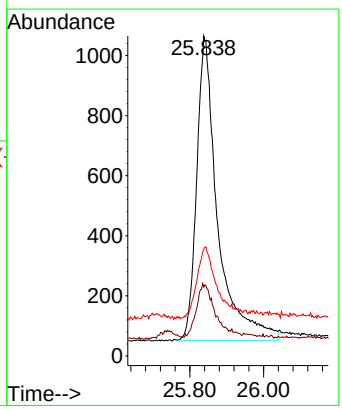


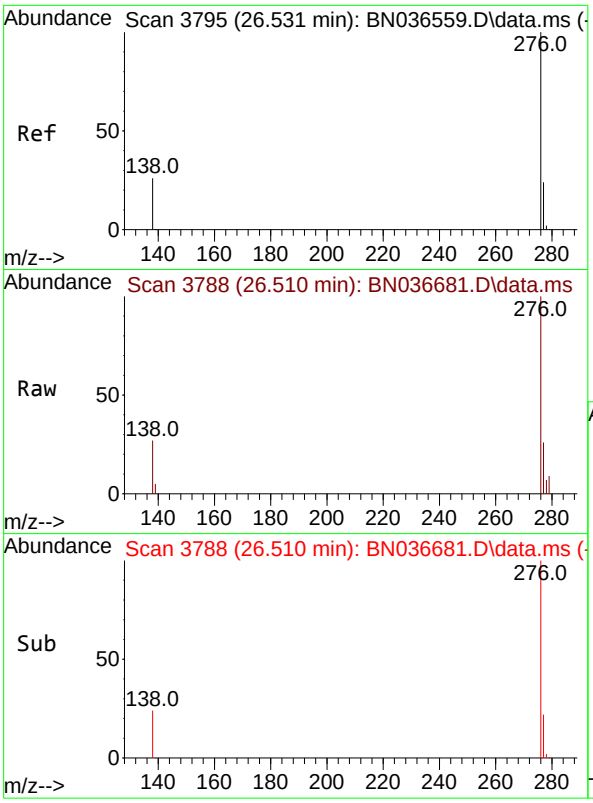


#40
Dibenzo(a,h)anthracene
Concen: 0.390 ng
RT: 25.838 min Scan# 3558
Delta R.T. -0.017 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Tgt Ion:278 Resp: 3996

Ion	Ratio	Lower	Upper
278	100		
139	21.5	20.8	31.2
279	33.4	28.8	43.2



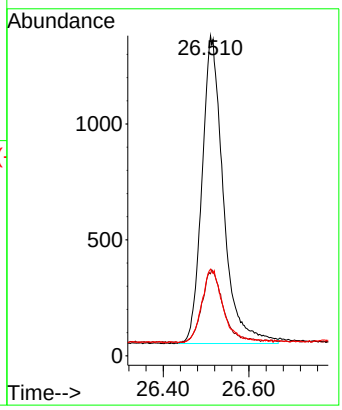


#41
Benzo(g,h,i)perylene
Concen: 0.392 ng
RT: 26.510 min Scan# 3
Delta R.T. -0.020 min
Lab File: BN036681.D
Acq: 18 Mar 2025 04:52

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4592

Ion	Ratio	Lower	Upper
276	100		
277	25.6	22.2	33.4
138	27.1	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036681.D
Acq On : 18 Mar 2025 04:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 06:01:22 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	107	-0.01
2		1,4-Dioxane	0.444	0.465	-4.7	100	0.00
3		n-Nitrosodimethylamine	0.898	0.907	-1.0	104	0.00
4	S	2-Fluorophenol	0.932	0.847	9.1	92	0.00
5	S	Phenol-d6	1.152	0.989	14.1	94	-0.01
6		bis(2-Chloroethyl)ether	1.190	1.000	16.0	91	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	113	-0.01
8	S	Nitrobenzene-d5	0.435	0.371	14.7	101	-0.01
9		Naphthalene	1.177	1.043	11.4	97	-0.01
10		Hexachlorobutadiene	0.277	0.251	9.4	96	-0.01
11	SURR	2-Methylnaphthalene-d10	0.595	0.521	12.4	97	-0.02
12		2-Methylnaphthalene	0.749	0.660	11.9	97	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	109	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.158	13.2	92	-0.01
15	S	2-Fluorobiphenyl	2.327	2.156	7.3	98	0.00
16		Acenaphthylene	1.888	1.679	11.1	95	-0.01
17		Acenaphthene	1.236	1.117	9.6	95	-0.02
18		Fluorene	1.672	1.491	10.8	92	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	101	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.068	20.9	89	0.00
21		4-Bromophenyl-phenylether	0.251	0.241	4.0	89	-0.01
22		Hexachlorobenzene	0.303	0.297	2.0	90	0.00
23		Atrazine	0.201	0.190	5.5	90	0.00
24		Pentachlorophenol	0.138	0.116	15.9	86	-0.01
25		Phenanthrene	1.200	1.142	4.8	89	-0.01
26		Anthracene	1.083	1.018	6.0	90	-0.01
27	SURR	Fluoranthene-d10	1.025	0.920	10.2	84	0.00
28		Fluoranthene	1.348	1.236	8.3	86	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	98	0.00
30		Pyrene	1.956	1.858	5.0	86	0.00
31	S	Terphenyl-d14	0.958	0.864	9.8	82	0.00
32		Benzo(a)anthracene	1.391	1.213	12.8	83	0.00
33		Chrysene	1.520	1.451	4.5	88	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.902	8.9	85	0.00
35	I	Perylene-d12	1.000	1.000	0.0	103	-0.01
36		Indeno(1,2,3-cd)pyrene	1.444	1.382	4.3	92	-0.02
37		Benzo(b)fluoranthene	1.456	1.340	8.0	89	0.00
38		Benzo(k)fluoranthene	1.527	1.373	10.1	87	0.00
39	C	Benzo(a)pyrene	1.226	1.166	4.9	92	0.00
40		Dibenzo(a,h)anthracene	1.124	1.096	2.5	97	-0.02
41		Benzo(g,h,i)perylene	1.286	1.260	2.0	94	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036681.D
Acq On : 18 Mar 2025 04:52
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 06:01:22 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	107	-0.01
2		1,4-Dioxane	0.400	0.419	-4.7	100	0.00
3		n-Nitrosodimethylamine	0.400	0.404	-1.0	104	0.00
4	S	2-Fluorophenol	0.400	0.363	9.3	92	0.00
5	S	Phenol-d6	0.400	0.343	14.2	94	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.336	16.0	91	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	113	-0.01
8	S	Nitrobenzene-d5	0.400	0.341	14.8	101	-0.01
9		Naphthalene	0.400	0.355	11.3	97	-0.01
10		Hexachlorobutadiene	0.400	0.363	9.3	96	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.350	12.5	97	-0.02
12		2-Methylnaphthalene	0.400	0.352	12.0	97	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	109	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.349	12.8	92	-0.01
15	S	2-Fluorobiphenyl	0.400	0.371	7.3	98	0.00
16		Acenaphthylene	0.400	0.356	11.0	95	-0.01
17		Acenaphthene	0.400	0.361	9.8	95	-0.02
18		Fluorene	0.400	0.357	10.8	92	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	101	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.411	-2.7	89	0.00
21		4-Bromophenyl-phenylether	0.400	0.385	3.8	89	-0.01
22		Hexachlorobenzene	0.400	0.392	2.0	90	0.00
23		Atrazine	0.400	0.377	5.8	90	0.00
24		Pentachlorophenol	0.400	0.336	16.0	86	-0.01
25		Phenanthrene	0.400	0.381	4.8	89	-0.01
26		Anthracene	0.400	0.376	6.0	90	-0.01
27	SURR	Fluoranthene-d10	0.400	0.359	10.3	84	0.00
28		Fluoranthene	0.400	0.367	8.3	86	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	98	0.00
30		Pyrene	0.400	0.380	5.0	86	0.00
31	S	Terphenyl-d14	0.400	0.360	10.0	82	0.00
32		Benzo(a)anthracene	0.400	0.349	12.8	83	0.00
33		Chrysene	0.400	0.382	4.5	88	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.364	9.0	85	0.00
35	I	Perylene-d12	0.400	0.400	0.0	103	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.383	4.3	92	-0.02
37		Benzo(b)fluoranthene	0.400	0.368	8.0	89	0.00
38		Benzo(k)fluoranthene	0.400	0.359	10.3	87	0.00
39	C	Benzo(a)pyrene	0.400	0.380	5.0	92	0.00
40		Dibenzo(a,h)anthracene	0.400	0.390	2.5	97	-0.02
41		Benzo(g,h,i)perylene	0.400	0.392	2.0	94	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 09:21

Lab File ID: BN036683.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	0.523		-12.1	20.0
Fluoranthene-d10	1.025	0.969		-5.5	20.0
2-Fluorophenol	0.932	0.812		-12.9	20.0
Phenol-d6	1.152	1.004		-12.8	20.0
Nitrobenzene-d5	0.435	0.380		-12.6	20.0
2-Fluorobiphenyl	2.327	2.136		-8.2	20.0
2,4,6-Tribromophenol	0.182	0.172		-5.5	20.0
Terphenyl-d14	0.958	0.834		-12.9	20.0
1,4-Dioxane	0.444	0.465		4.7	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036683.D
Acq On : 18 Mar 2025 09:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 18 10:42:23 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

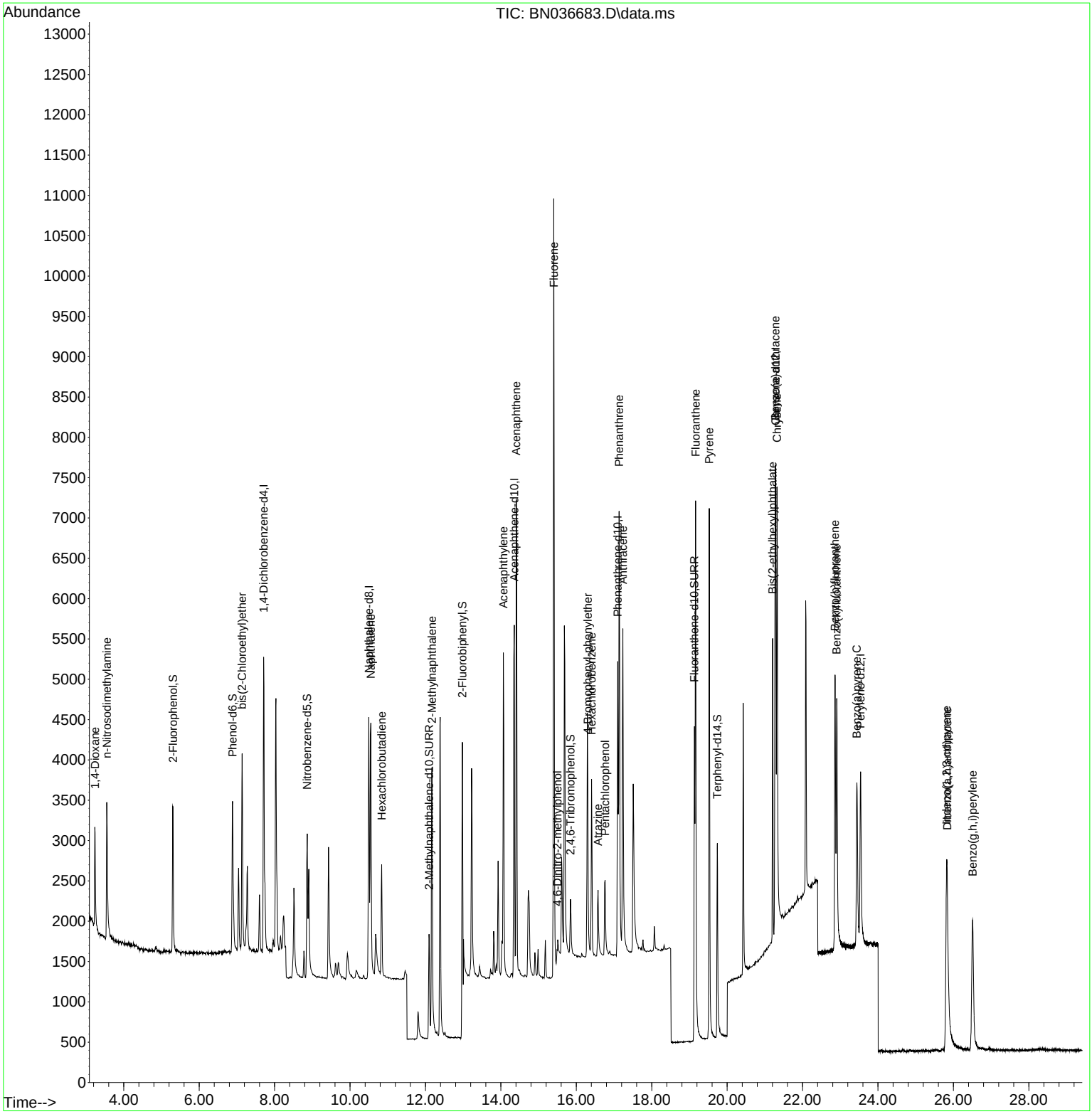
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.710	152	1819	0.400	ng		-0.01
7) Naphthalene-d8	10.498	136	4524	0.400	ng		-0.01
13) Acenaphthene-d10	14.355	164	2641	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	5270	0.400	ng		-0.01
29) Chrysene-d12	21.286	240	3871	0.400	ng		0.00
35) Perylene-d12	23.537	264	3319	0.400	ng		#-0.02
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	1477	0.348	ng		0.00
5) Phenol-d6	6.886	99	1826	0.349	ng		-0.01
8) Nitrobenzene-d5	8.864	82	1719	0.349	ng		-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2368	0.352	ng		-0.02
14) 2,4,6-Tribromophenol	15.845	330	453	0.378	ng		-0.01
15) 2-Fluorobiphenyl	12.978	172	5641	0.367	ng		-0.01
27) Fluoranthene-d10	19.132	212	5107	0.378	ng		0.00
31) Terphenyl-d14	19.740	244	3227	0.348	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	845	0.419	ng		97
3) n-Nitrosodimethylamine	3.550	42	1629	0.399	ng		90
6) bis(2-Chloroethyl)ether	7.139	93	1789	0.330	ng		95
9) Naphthalene	10.551	128	4773	0.359	ng		99
10) Hexachlorobutadiene	10.840	225	1126	0.359	ng	#	98
12) 2-Methylnaphthalene	12.172	142	3000	0.354	ng		98
16) Acenaphthylene	14.067	152	4550	0.365	ng		100
17) Acenaphthene	14.409	154	2968	0.364	ng		100
18) Fluorene	15.403	166	4104	0.372	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	334	0.394	ng		94
21) 4-Bromophenyl-phenylether	16.304	248	1254	0.380	ng	#	78
22) Hexachlorobenzene	16.404	284	1466	0.368	ng		94
23) Atrazine	16.577	200	977	0.369	ng		95
24) Pentachlorophenol	16.764	266	643	0.354	ng		99
25) Phenanthrene	17.136	178	6044	0.382	ng		99
26) Anthracene	17.235	178	5428	0.381	ng		99
28) Fluoranthene	19.164	202	6897	0.388	ng		99
30) Pyrene	19.527	202	6775	0.358	ng		99
32) Benzo(a)anthracene	21.277	228	4798	0.356	ng		99
33) Chrysene	21.322	228	5558	0.378	ng		99
34) Bis(2-ethylhexyl)phtha...	21.205	149	3479	0.363	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.817	276	4216	0.352	ng		95
37) Benzo(b)fluoranthene	22.861	252	4509	0.373	ng		97
38) Benzo(k)fluoranthene	22.905	252	4672	0.369	ng		96
39) Benzo(a)pyrene	23.440	252	3758	0.369	ng		97
40) Dibenzo(a,h)anthracene	25.838	278	3134	0.336	ng		98
41) Benzo(g,h,i)perylene	26.513	276	3819	0.358	ng		98

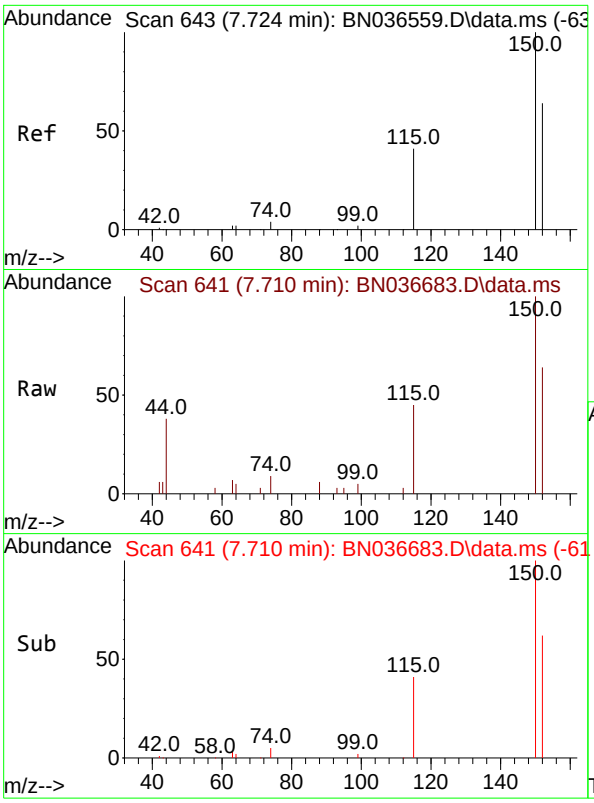
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036683.D
Acq On : 18 Mar 2025 09:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 18 10:42:23 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



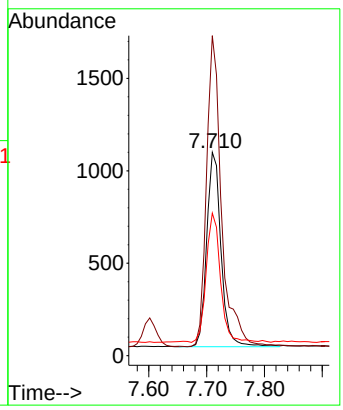


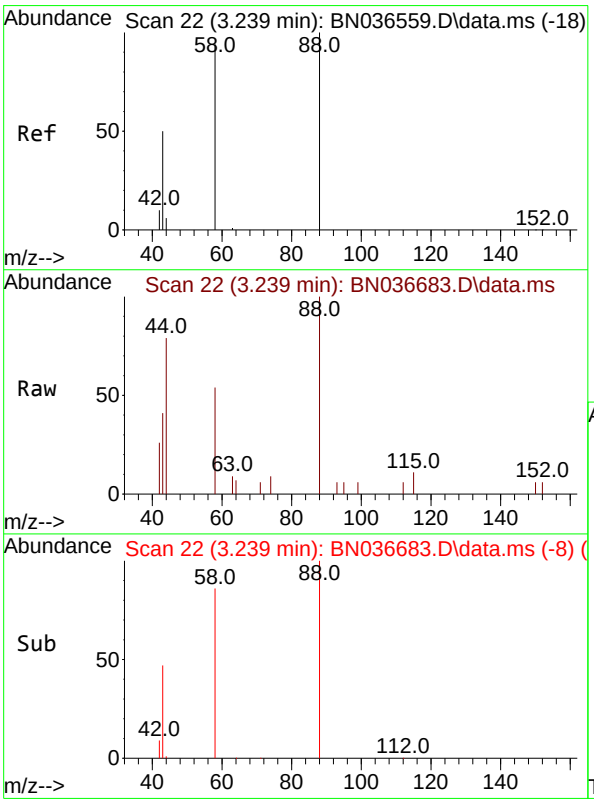
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1819

Ion	Ratio	Lower	Upper
152	100		
150	157.4	123.7	185.5
115	70.1	54.3	81.5

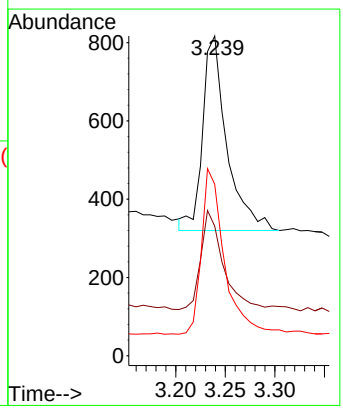


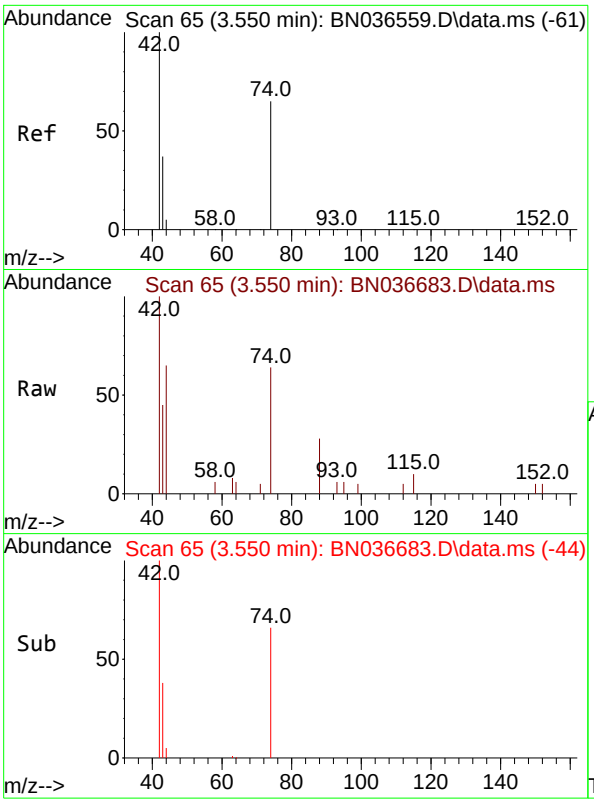


#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion: 88 Resp: 845

Ion	Ratio	Lower	Upper
88	100		
43	47.8	37.8	56.8
58	79.9	67.4	101.2



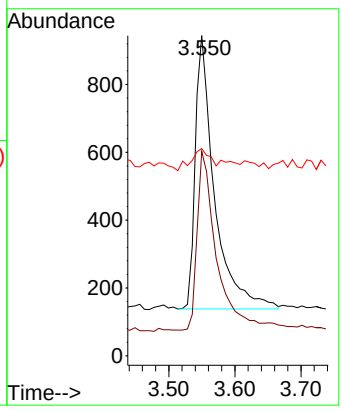


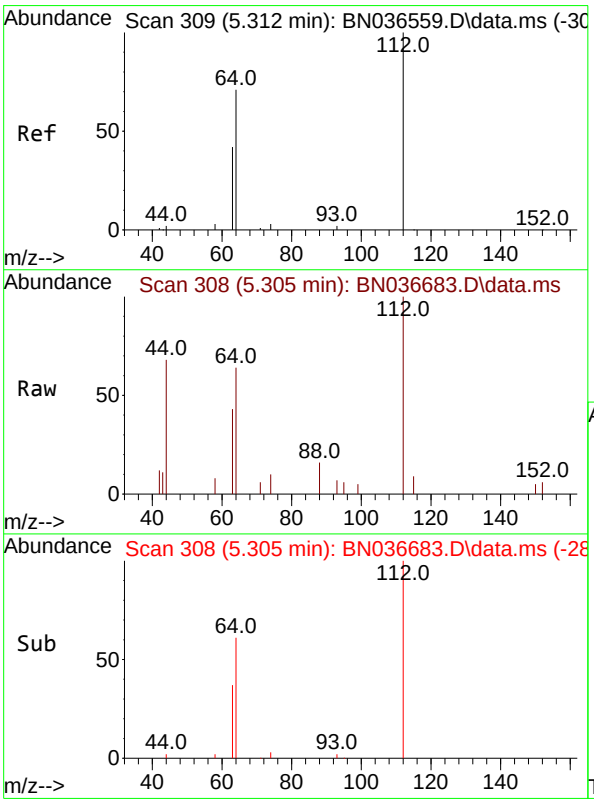
#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1629

Ion	Ratio	Lower	Upper
42	100		
74	66.4	60.6	90.8
44	7.8	6.3	9.5

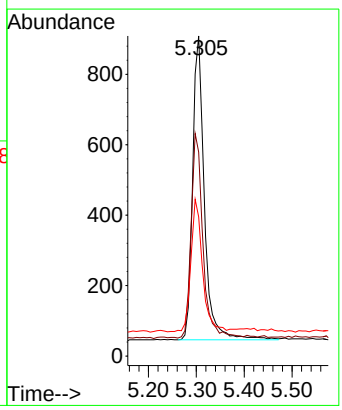


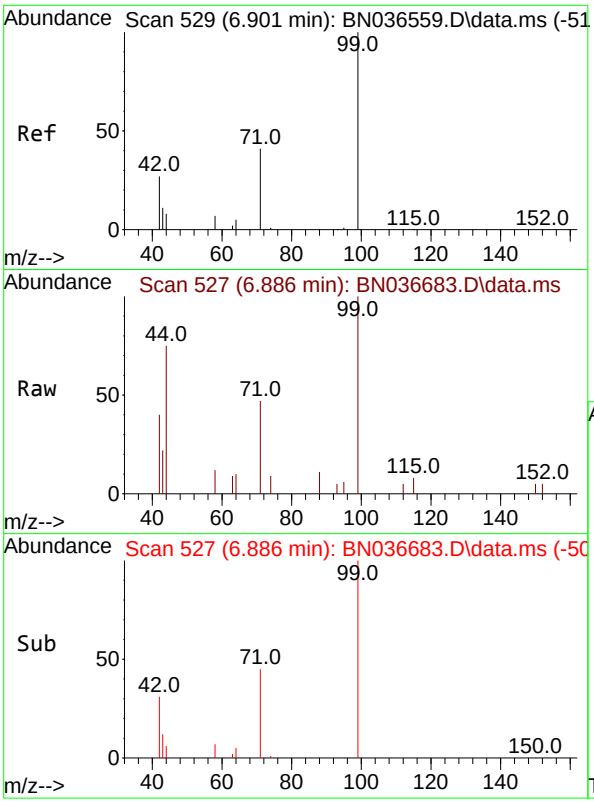


#4
2-Fluorophenol
Concen: 0.348 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:112 Resp: 1477

Ion	Ratio	Lower	Upper
112	100		
64	67.8	53.1	79.7
63	43.1	31.8	47.8



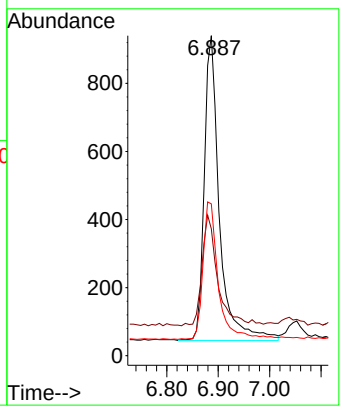


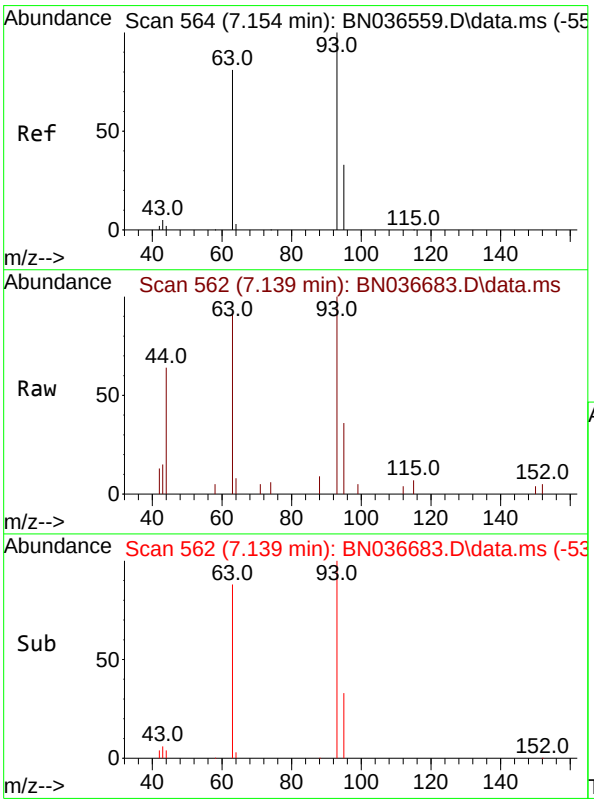
#5
Phenol-d6
Concen: 0.349 ng
RT: 6.886 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1826

Ion	Ratio	Lower	Upper
99	100		
42	37.1	26.5	39.7
71	46.3	34.1	51.1

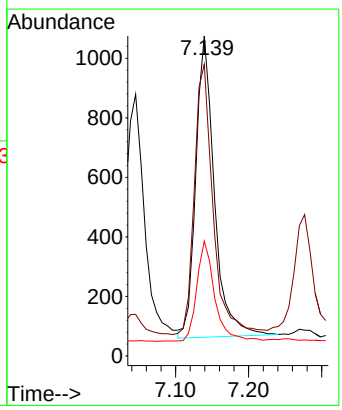


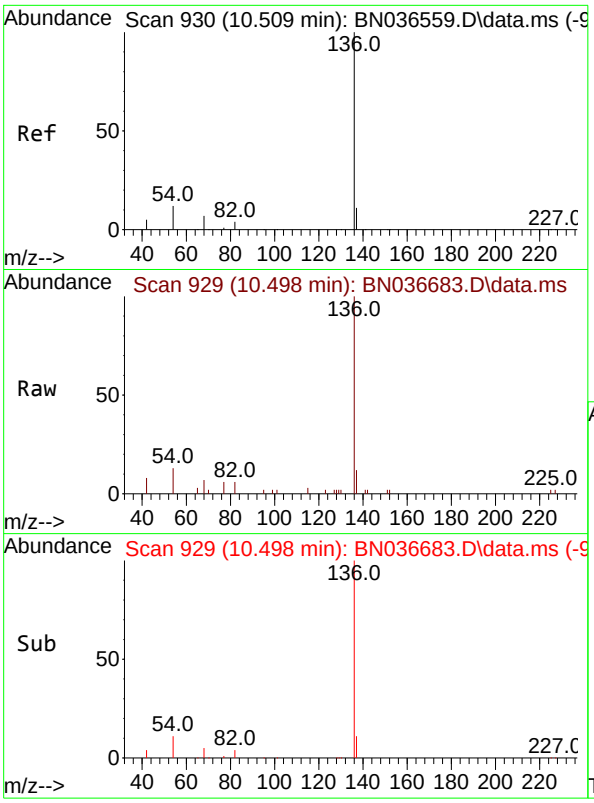


#6
bis(2-Chloroethyl)ether
Concen: 0.330 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion: 93 Resp: 1789

Ion	Ratio	Lower	Upper
93	100		
63	90.4	67.7	101.5
95	32.4	25.6	38.4



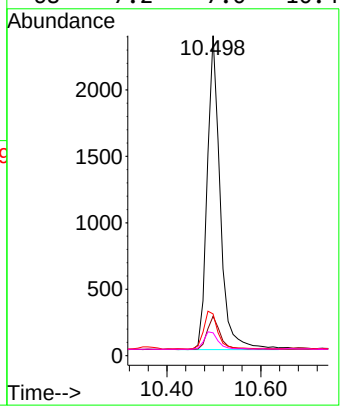


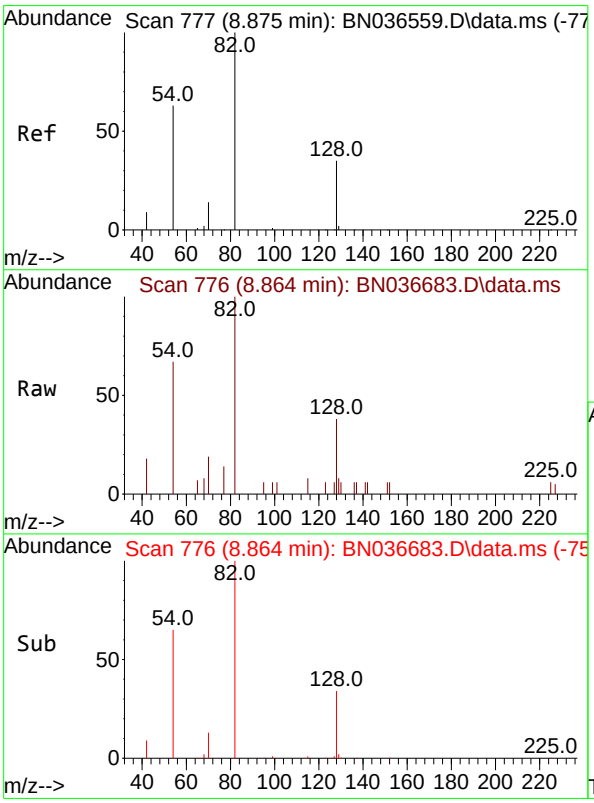
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 4524

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.3	15.5
54	13.0	11.5	17.3
68	7.2	7.0	10.4

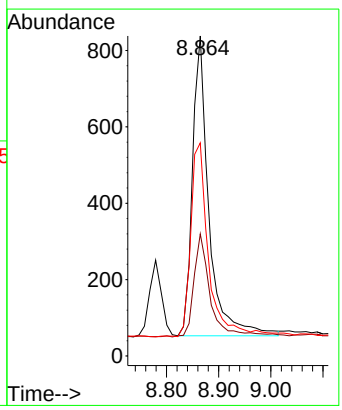


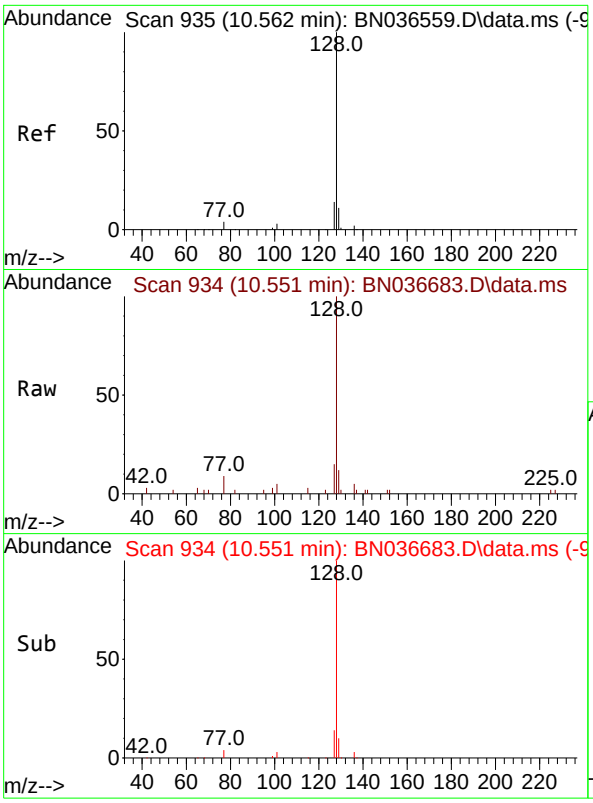


#8
Nitrobenzene-d5
Concen: 0.349 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion: 82 Resp: 1719

Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	66.6	52.2	78.4



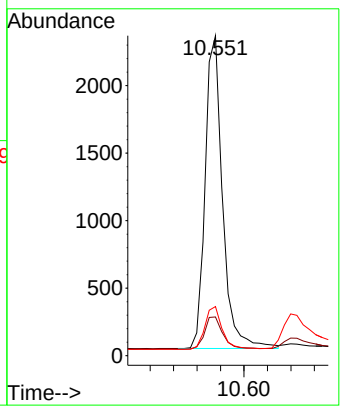


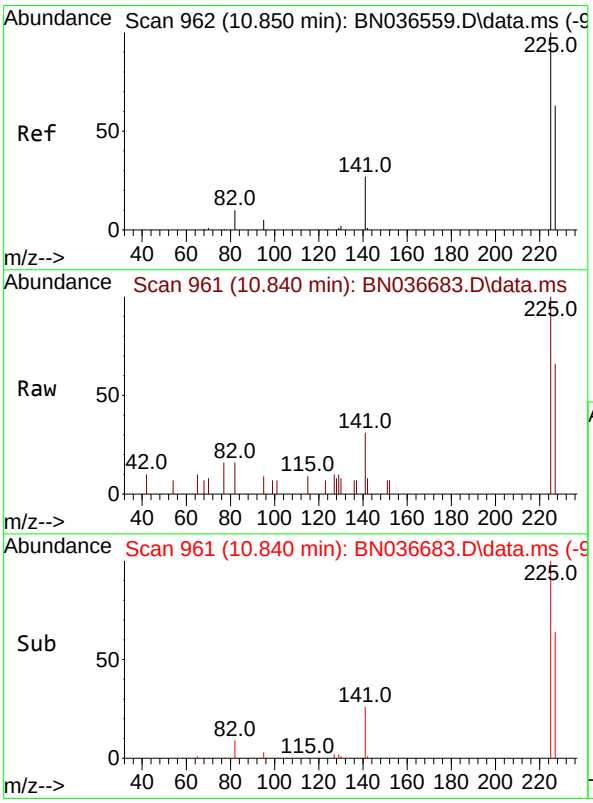
#9
Naphthalene
Concen: 0.359 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4773

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	15.4	11.8	17.8

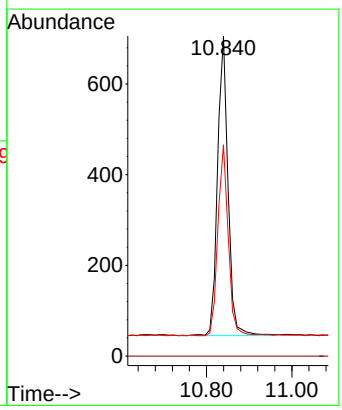


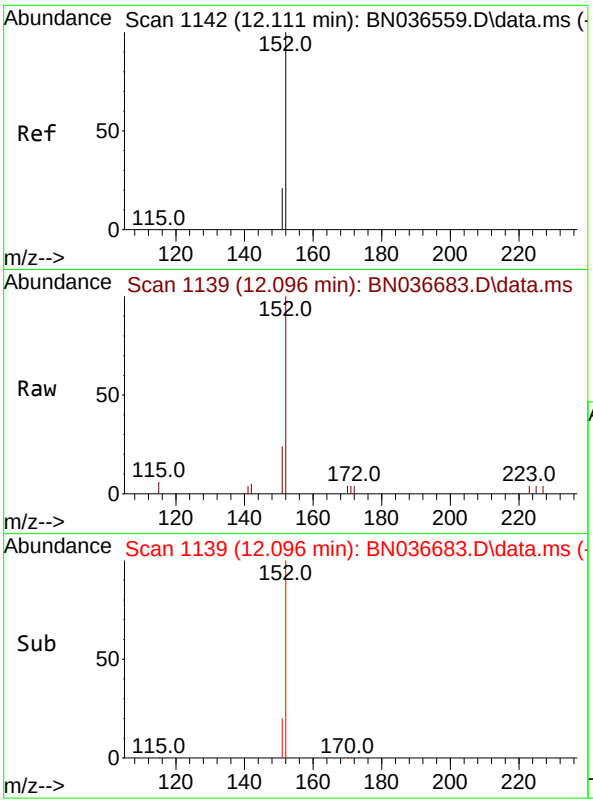


#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:225 Resp: 1126

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



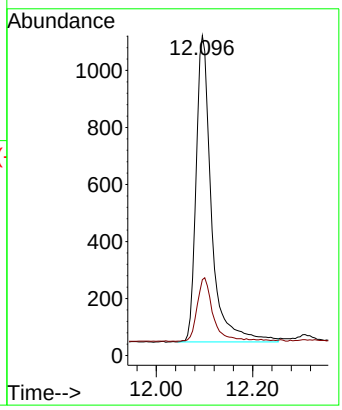


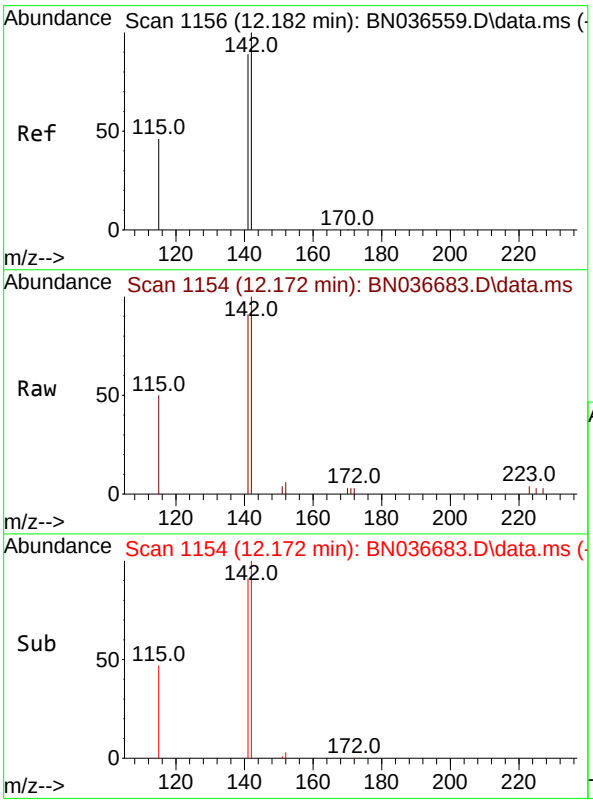
#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2368

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.0	25.6

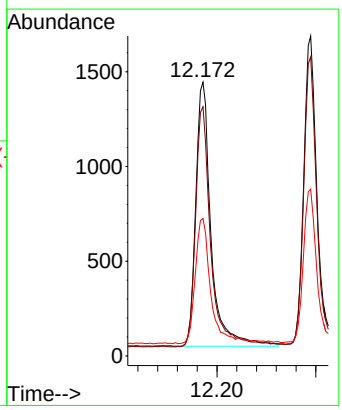


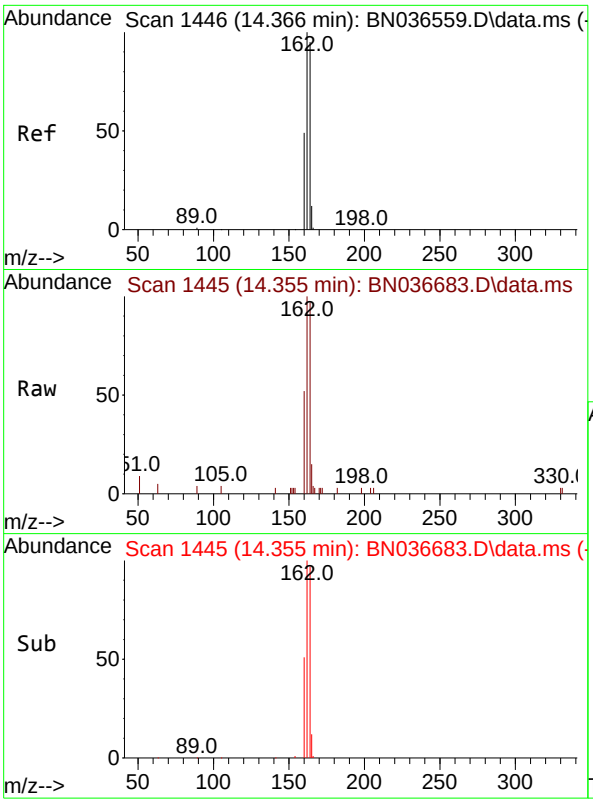


#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:142 Resp: 3000

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.7	107.5
115	50.2	38.3	57.5



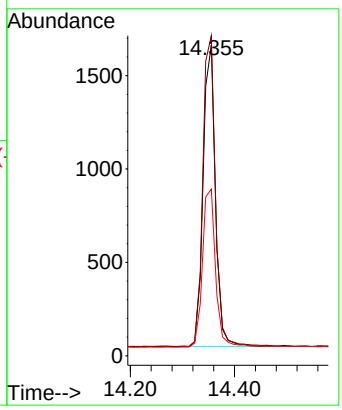


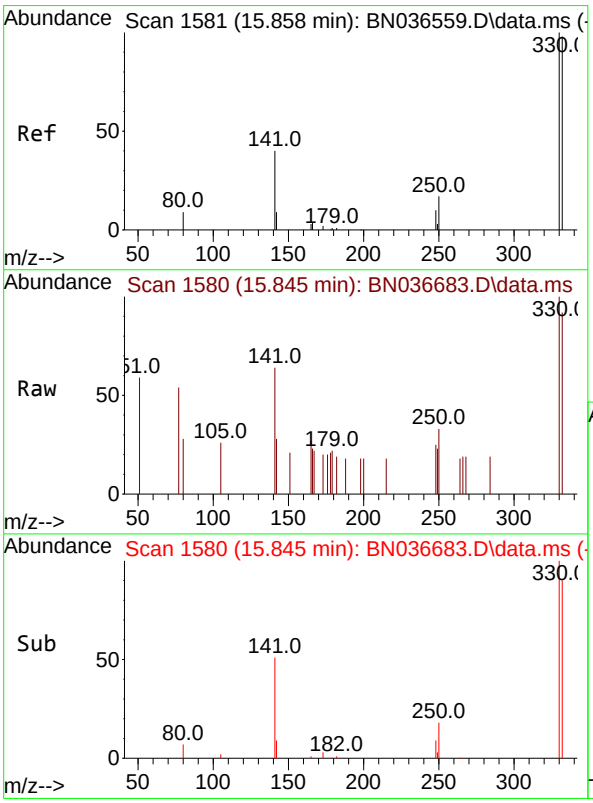
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2641

Ion	Ratio	Lower	Upper
164	100		
162	103.0	84.2	126.2
160	53.6	42.2	63.2

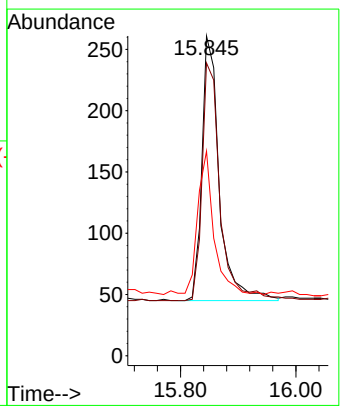


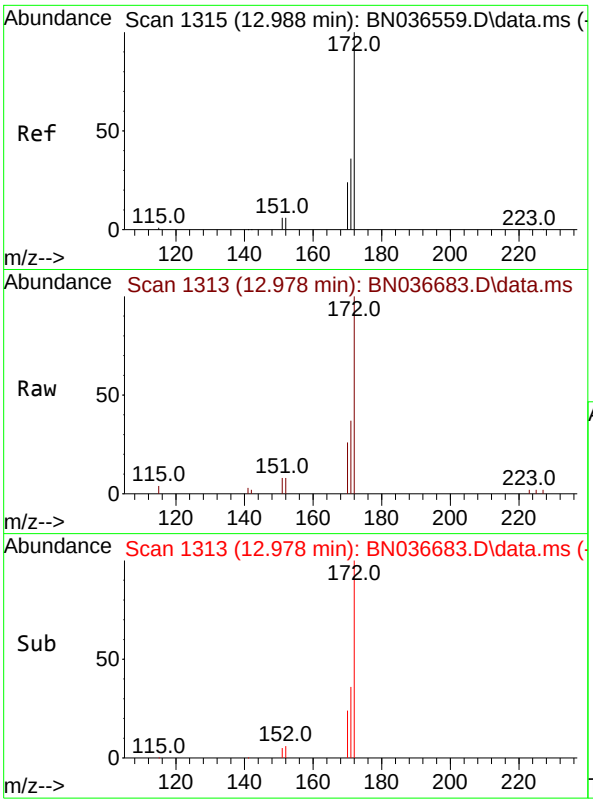


#14
2,4,6-Tribromophenol
Concen: 0.378 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:330 Resp: 453

Ion	Ratio	Lower	Upper
330	100		
332	93.2	75.2	112.8
141	51.2	43.4	65.2



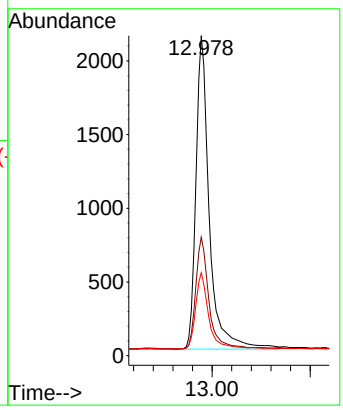


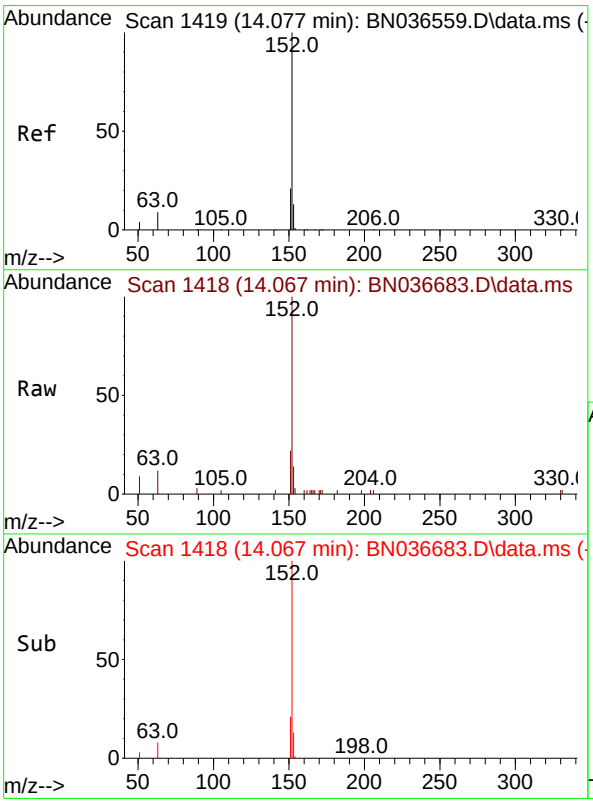
#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 5641

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.5	44.3
170	25.9	20.2	30.4

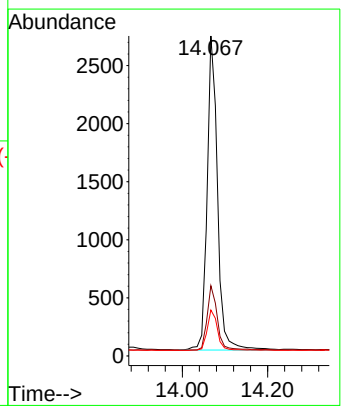


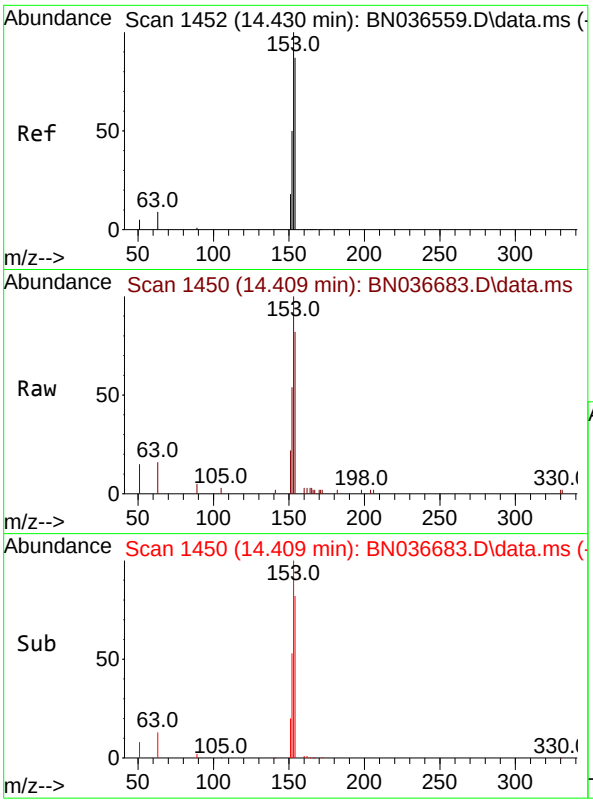


#16
Acenaphthylene
Concen: 0.365 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:152 Resp: 4550

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.9	10.6	15.8



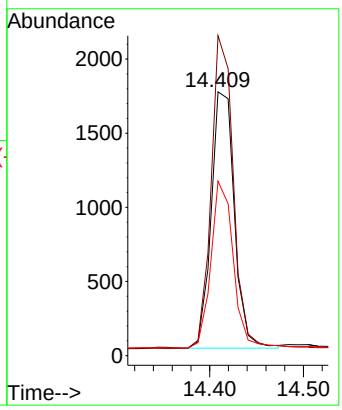


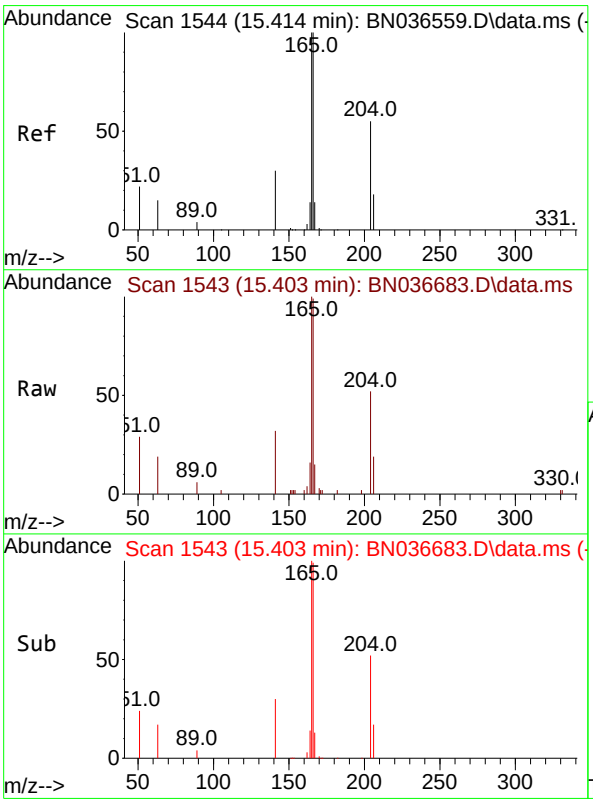
#17
Acenaphthene
Concen: 0.364 ng
RT: 14.409 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 2968

Ion	Ratio	Lower	Upper
154	100		
153	117.6	94.1	141.1
152	63.2	49.8	74.6

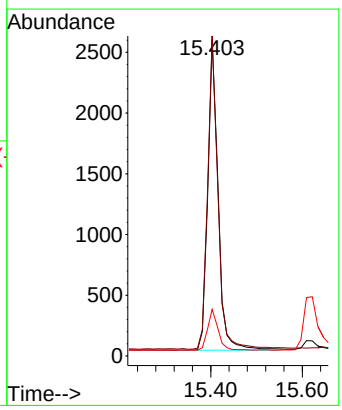


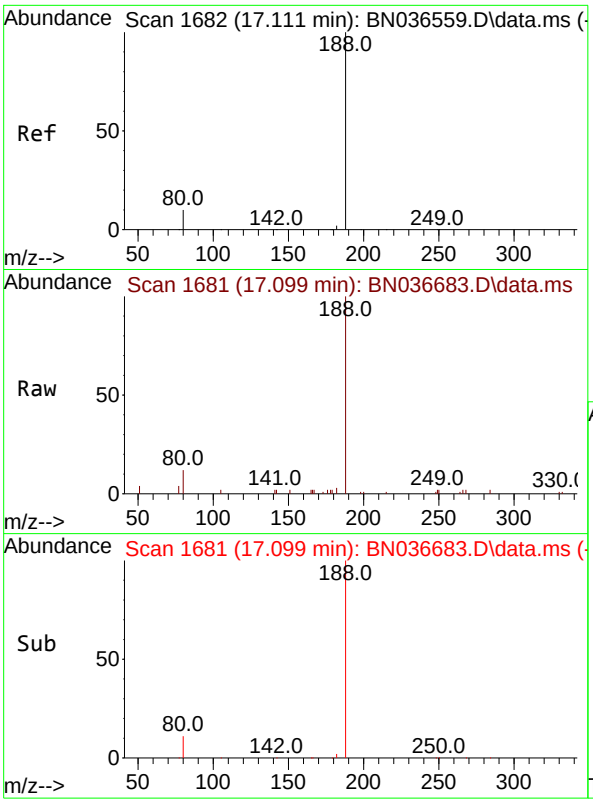


#18
Fluorene
Concen: 0.372 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:166 Resp: 4104

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.8	119.8
167	13.1	10.6	15.8



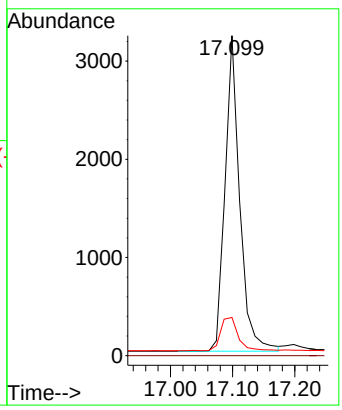


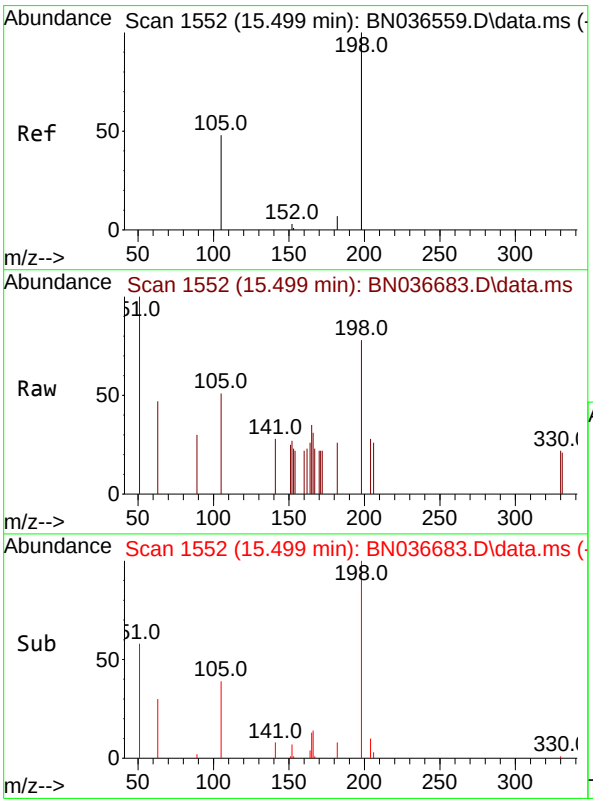
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 5270

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	8.8	13.2

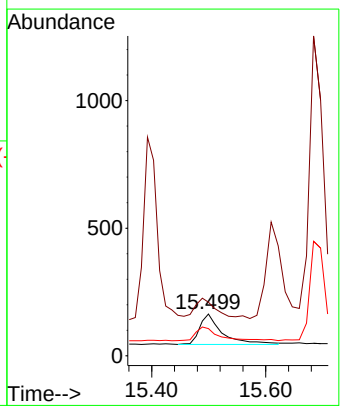


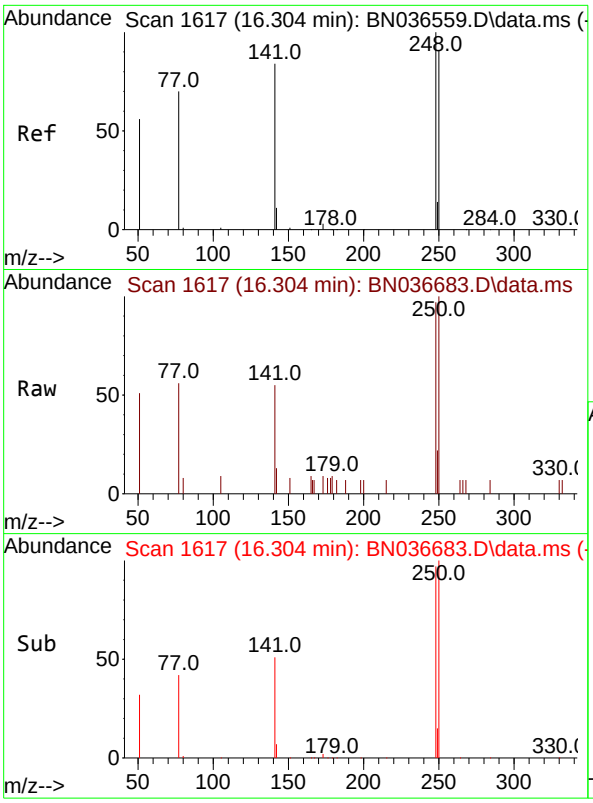


#20
4,6-Dinitro-2-methylphenol
Concen: 0.394 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:198 Resp: 334

Ion	Ratio	Lower	Upper
198	100		
51	128.0	107.9	161.9
105	65.2	56.2	84.2



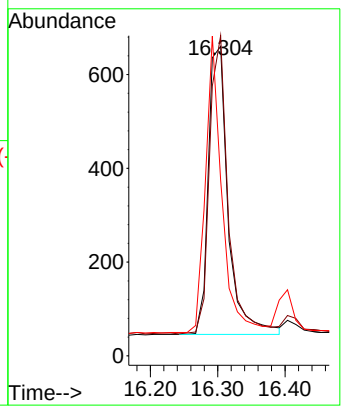


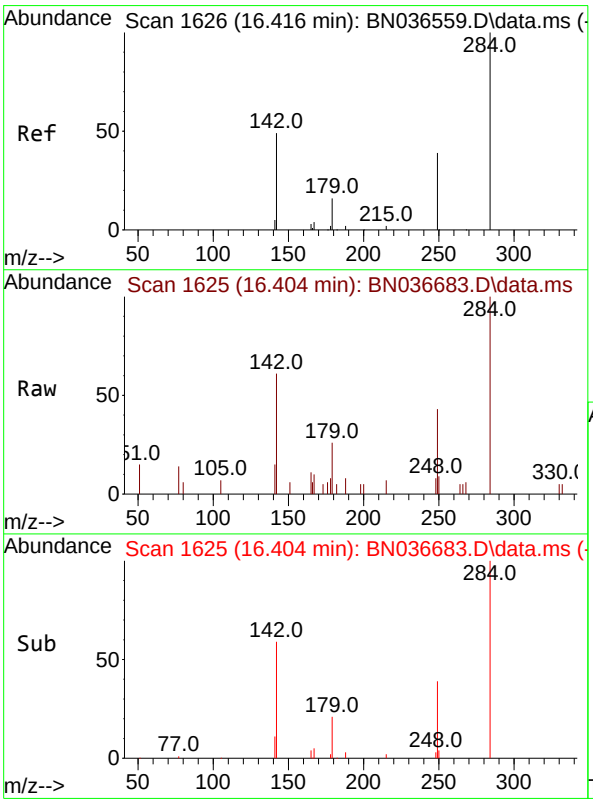
#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1254

Ion	Ratio	Lower	Upper
248	100		
250	103.5	73.0	109.6
141	56.8	68.6	103.0#

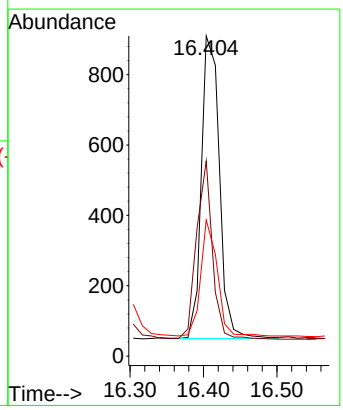


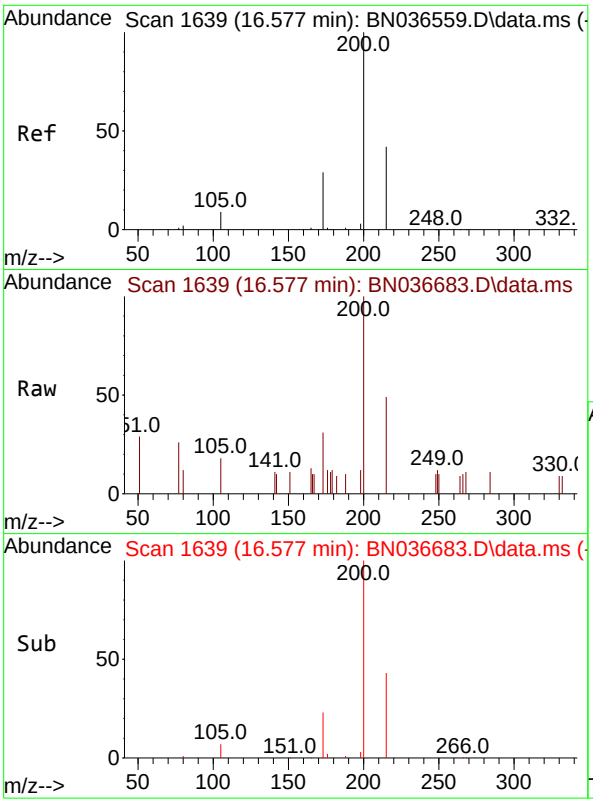


#22
Hexachlorobenzene
Concen: 0.368 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:284 Resp: 1466

Ion	Ratio	Lower	Upper
284	100		
142	52.3	37.0	55.4
249	36.4	28.1	42.1



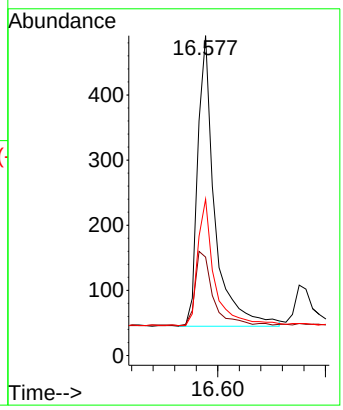


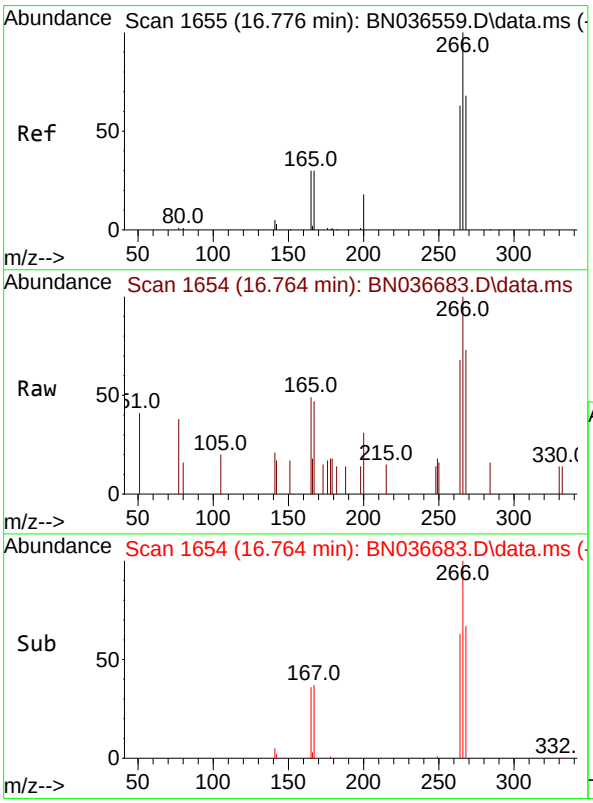
#23
Atrazine
Concen: 0.369 ng
RT: 16.577 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 977

Ion	Ratio	Lower	Upper
200	100		
173	30.8	27.3	40.9
215	48.9	36.8	55.2

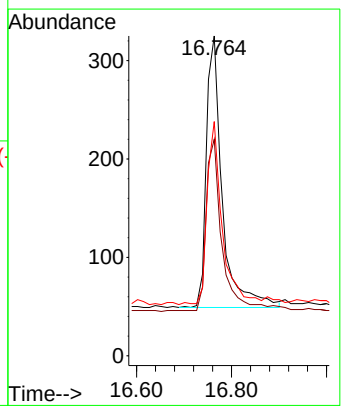


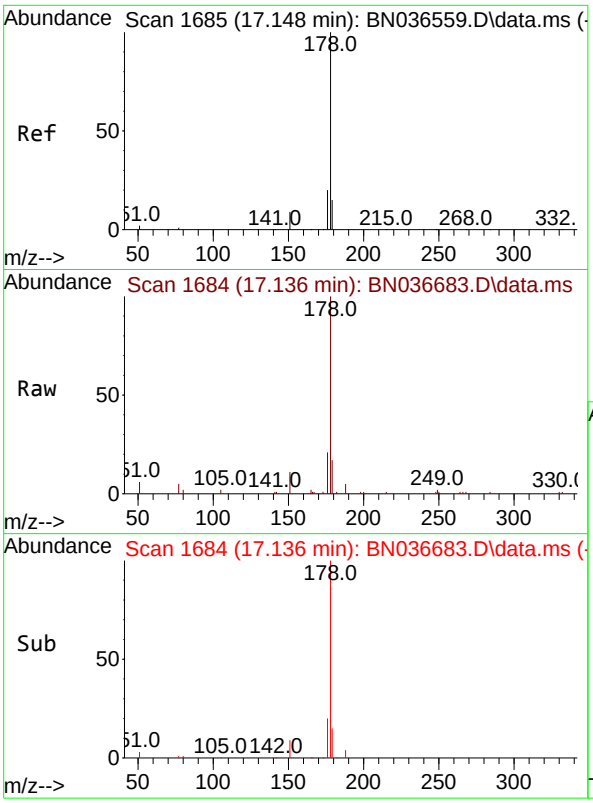


#24
Pentachlorophenol
Concen: 0.354 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:266 Resp: 643

Ion	Ratio	Lower	Upper
266	100		
264	62.7	49.6	74.4
268	64.1	50.9	76.3



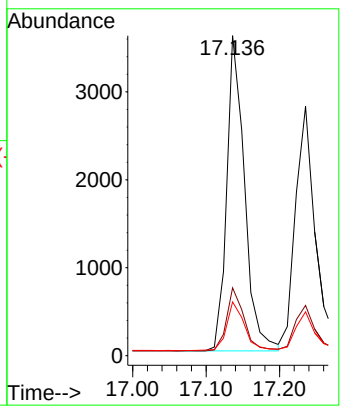


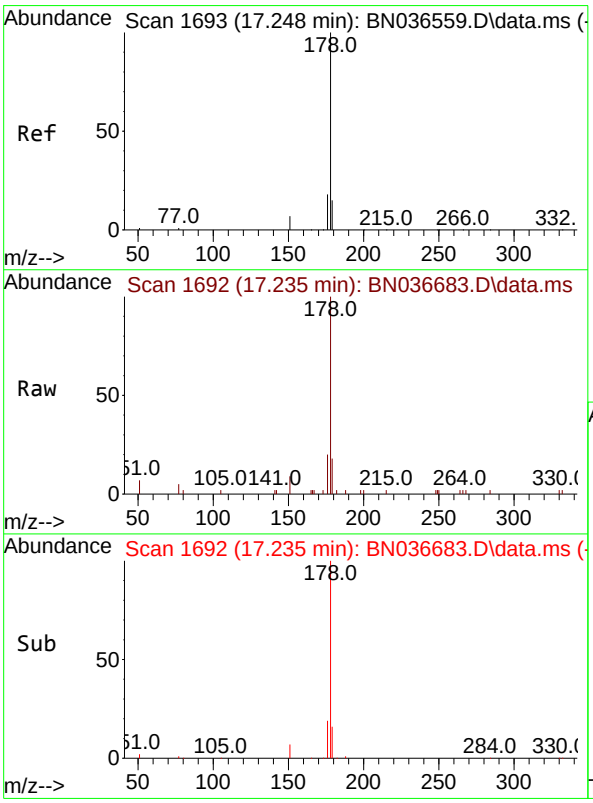
#25
Phenanthrene
Concen: 0.382 ng
RT: 17.136 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 6044

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.8	12.2	18.4

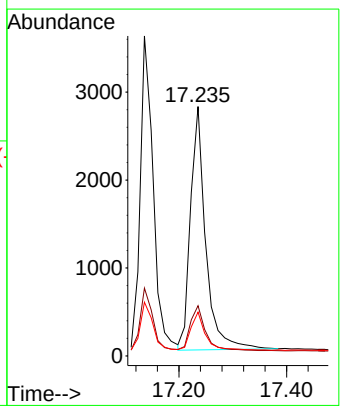


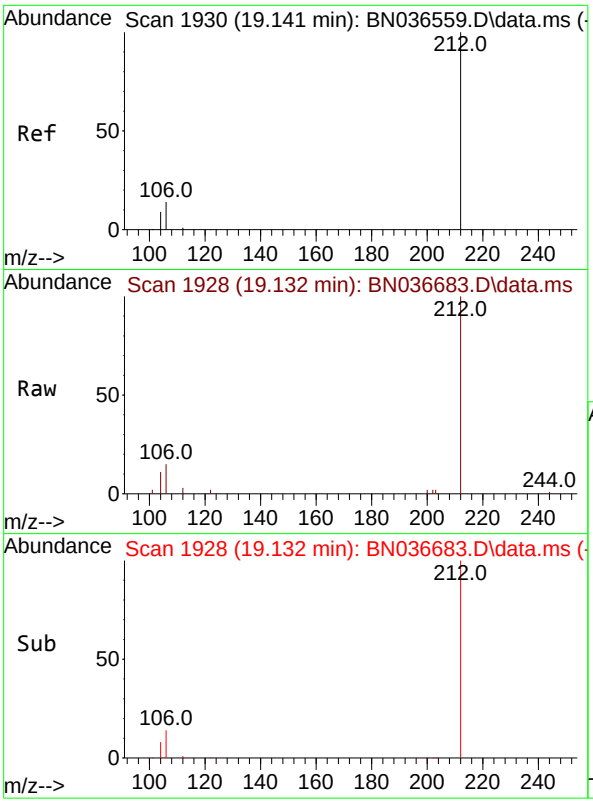


#26
Anthracene
Concen: 0.381 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:178 Resp: 5428

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.5	12.6	18.8



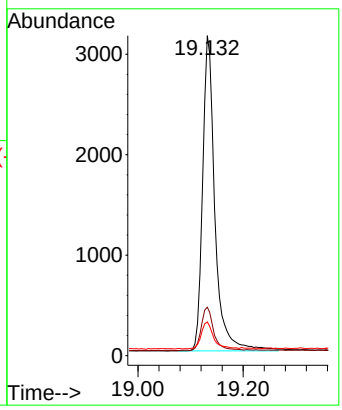


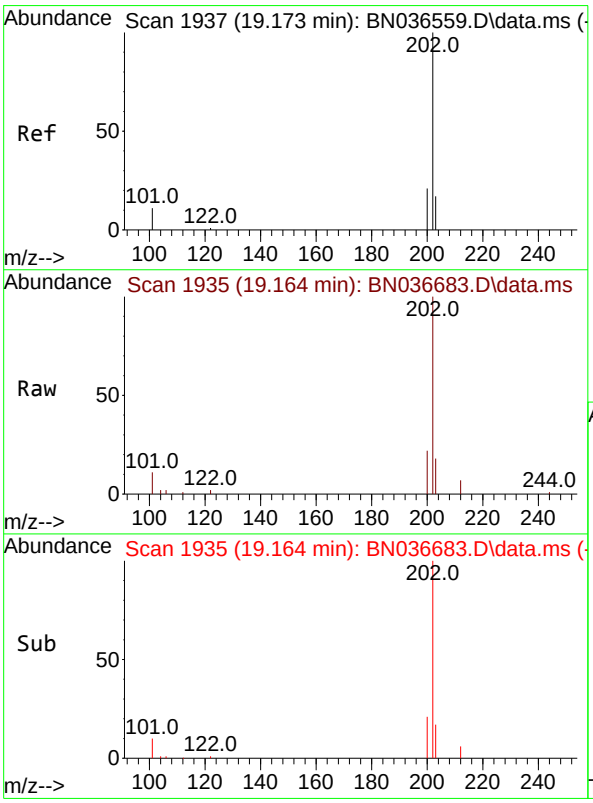
#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 5107

Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.6	7.3	10.9

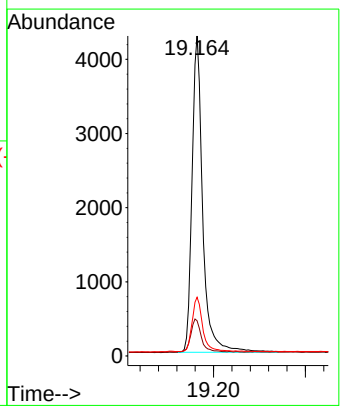


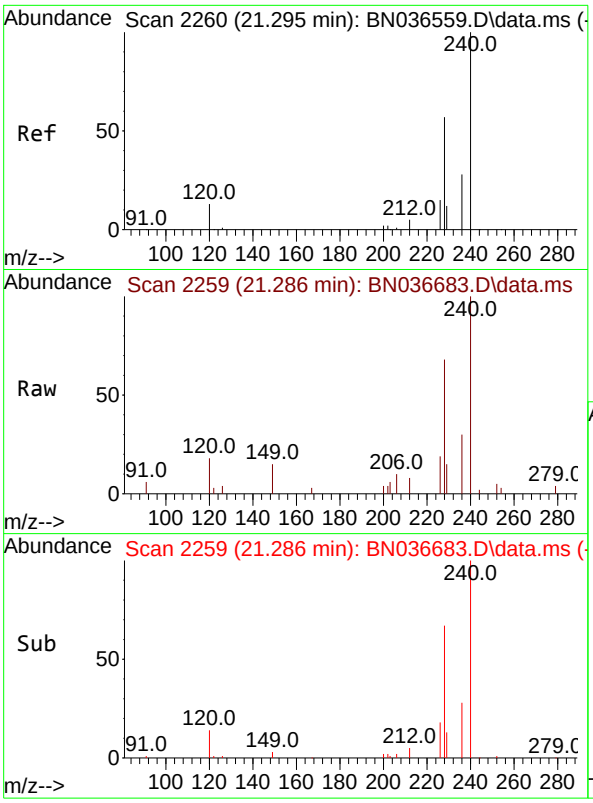


#28
Fluoranthene
Concen: 0.388 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:202 Resp: 6897

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.9	13.5	20.3



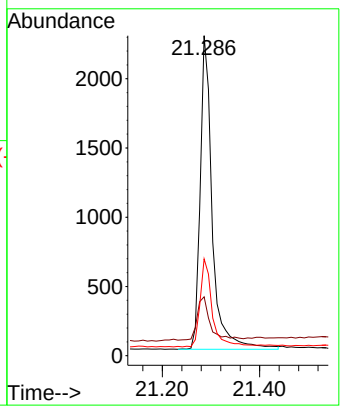


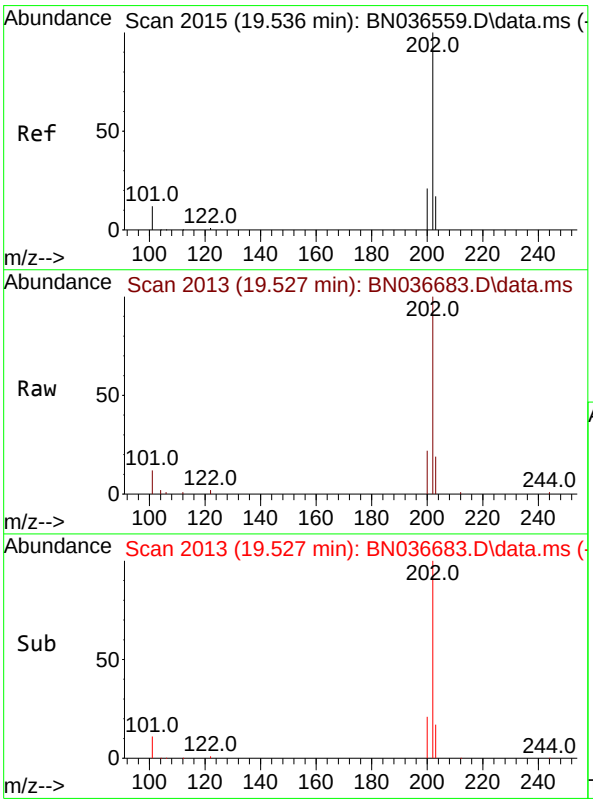
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 3871

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

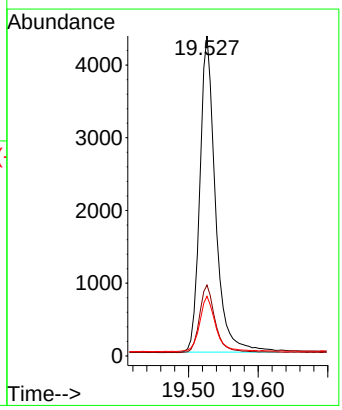


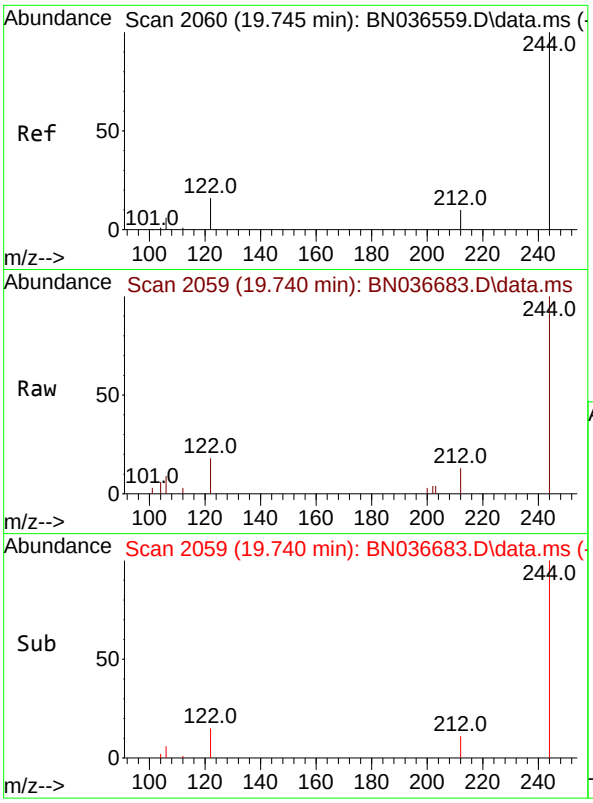


#30
Pyrene
Concen: 0.358 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:202 Resp: 6775

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.1	25.7
203	17.9	14.1	21.1



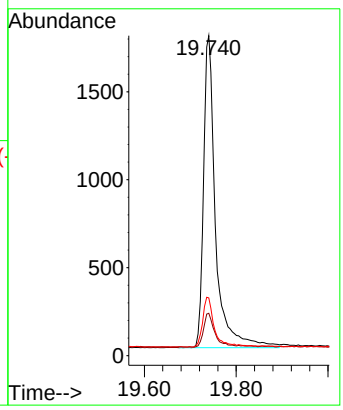


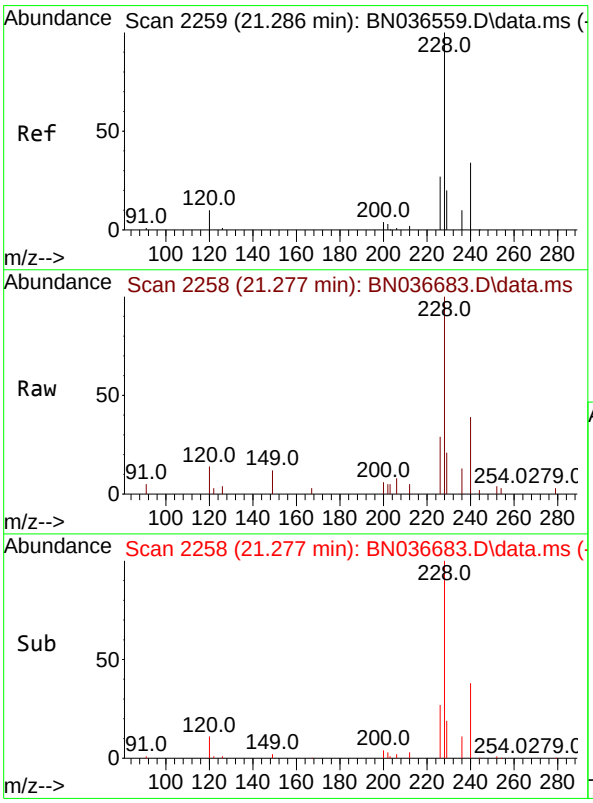
#31
Terphenyl-d14
Concen: 0.348 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3227

Ion	Ratio	Lower	Upper
244	100		
212	13.2	9.6	14.4
122	18.0	13.9	20.9

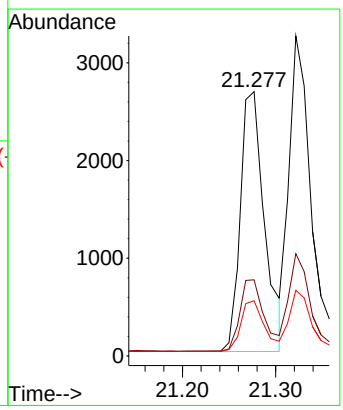


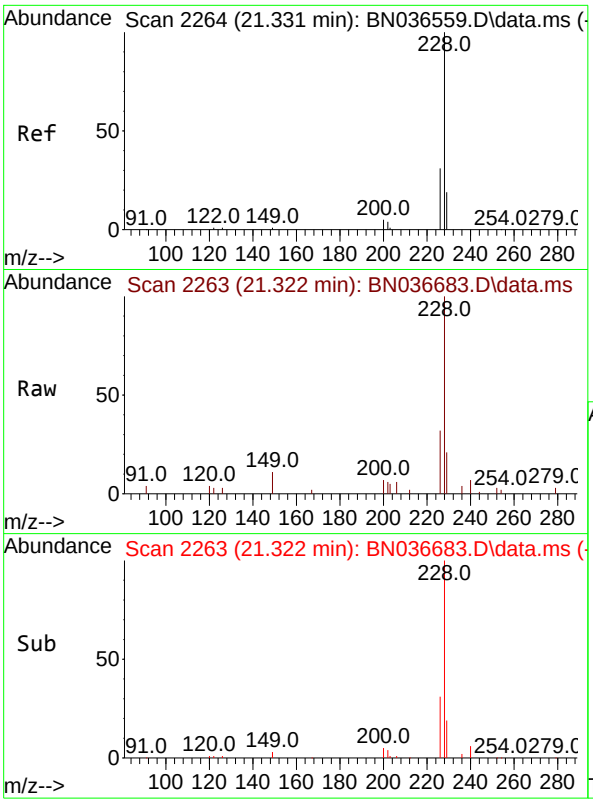


#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:228 Resp: 4798

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.9	16.6	25.0



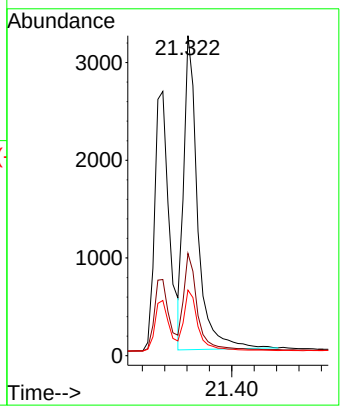


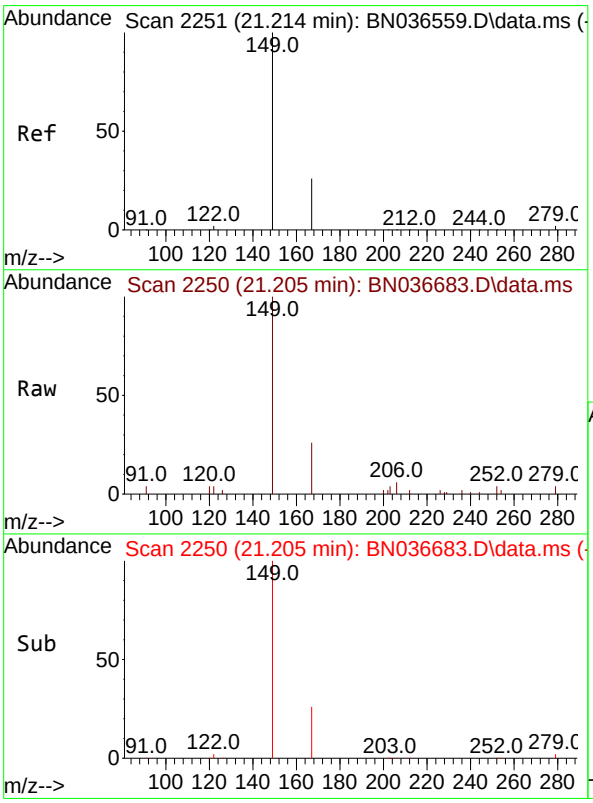
#33
Chrysene
Concen: 0.378 ng
RT: 21.322 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 5558

Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.3	37.9
229	20.5	15.8	23.8

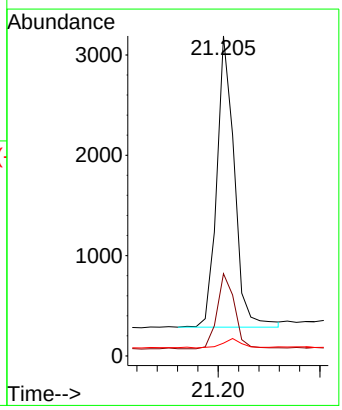


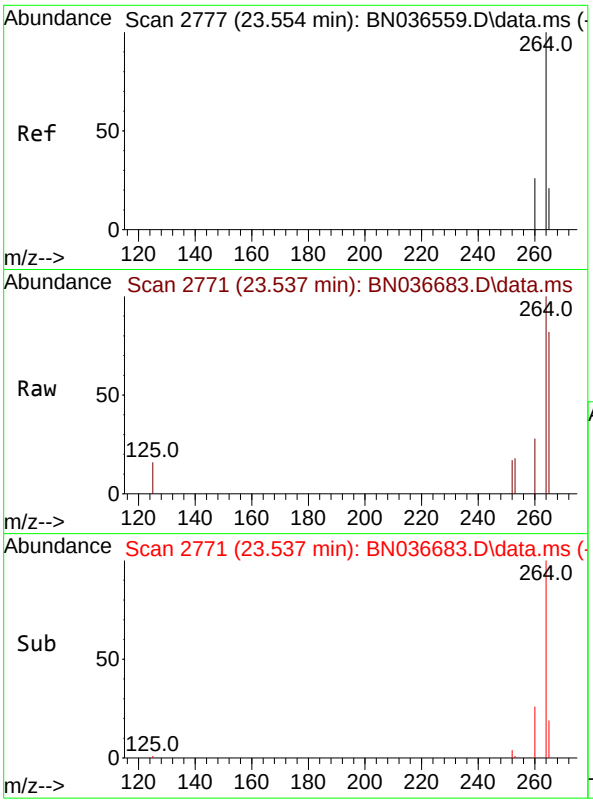


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.363 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:149 Resp: 3479

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.7	31.1
279	3.2	3.6	5.4#



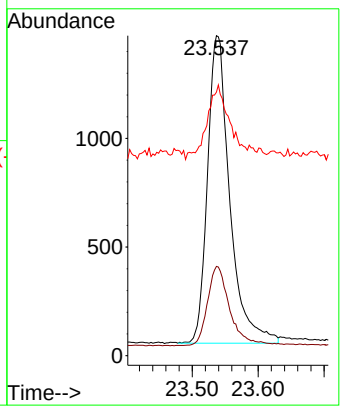


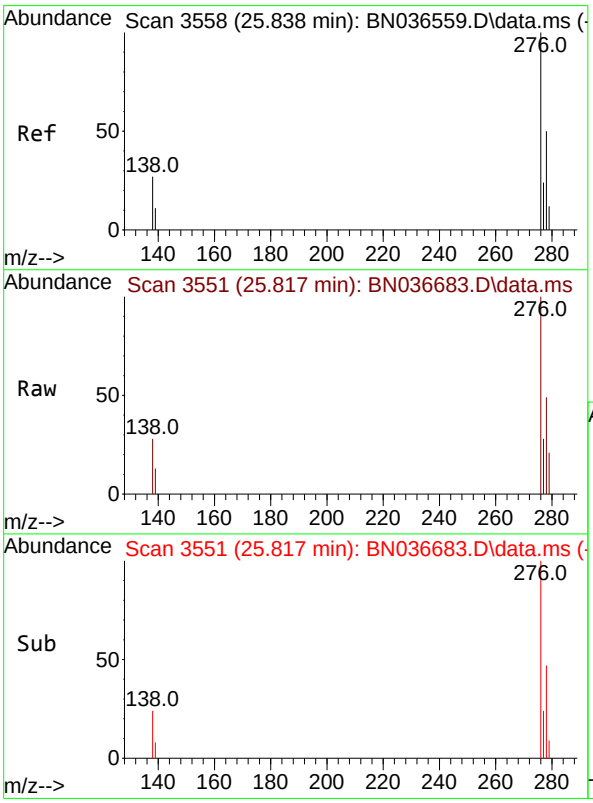
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.537 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3319

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.6	33.8
265	82.3	88.1	132.1#

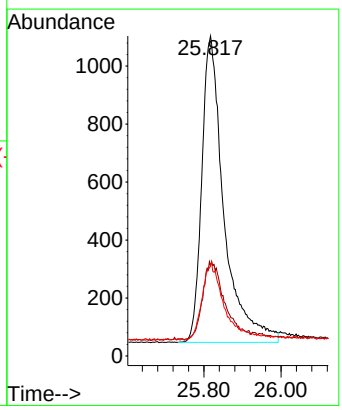


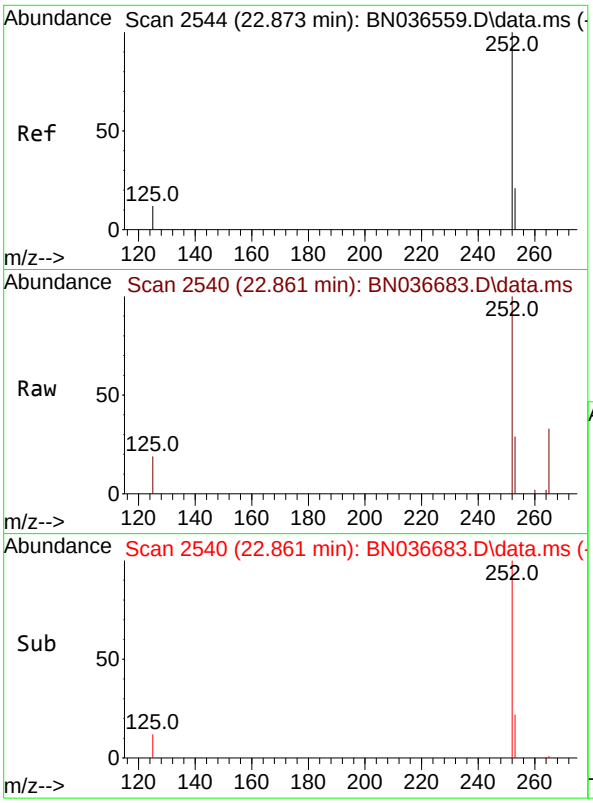


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.817 min Scan# 3551
Delta R.T. -0.020 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:276 Resp: 4216

Ion	Ratio	Lower	Upper
276	100		
138	25.2	23.4	35.2
277	23.5	20.0	30.0



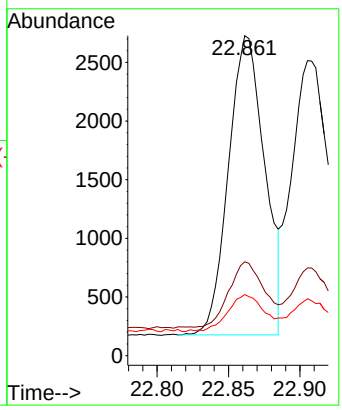


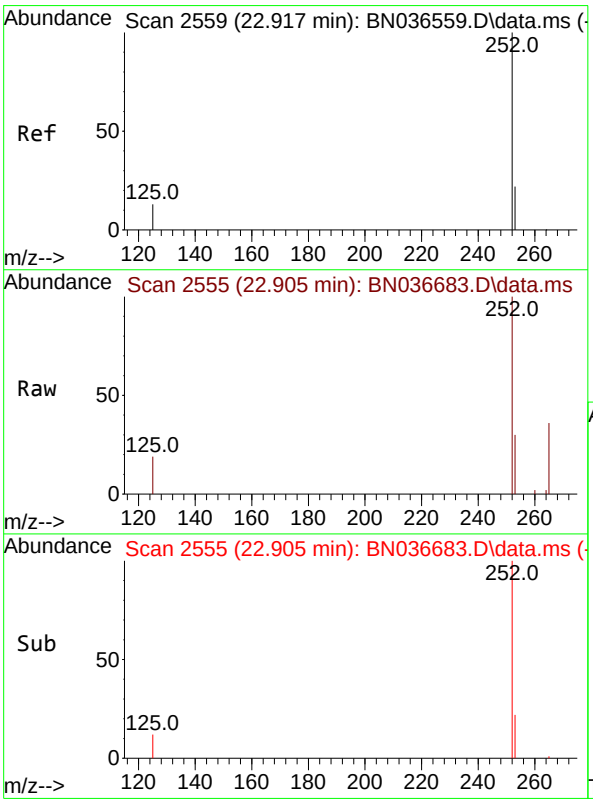
#37
Benzo(b)fluoranthene
Concen: 0.373 ng
RT: 22.861 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4509

Ion	Ratio	Lower	Upper
252	100		
253	29.3	23.9	35.9
125	19.1	17.4	26.2

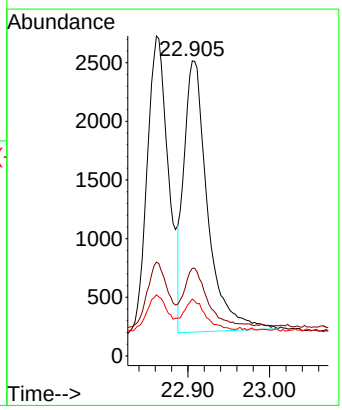


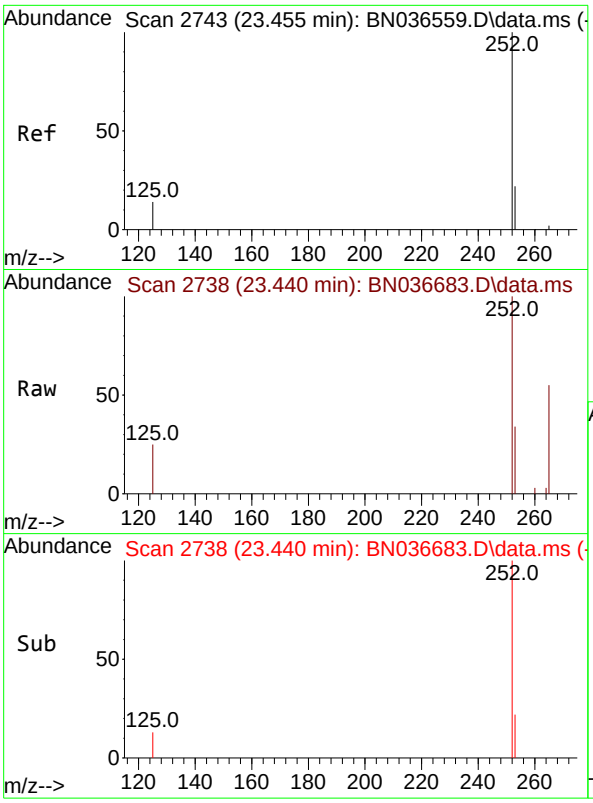


#38
Benzo(k)fluoranthene
Concen: 0.369 ng
RT: 22.905 min Scan# 2555
Delta R.T. -0.012 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:252 Resp: 4672

Ion	Ratio	Lower	Upper
252	100		
253	29.7	24.6	36.8
125	19.3	17.8	26.8



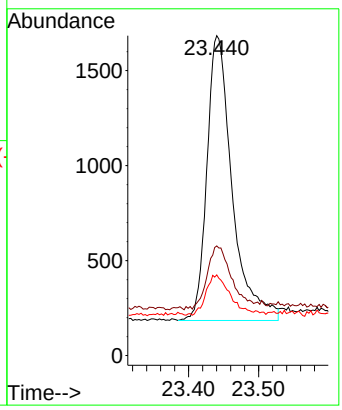


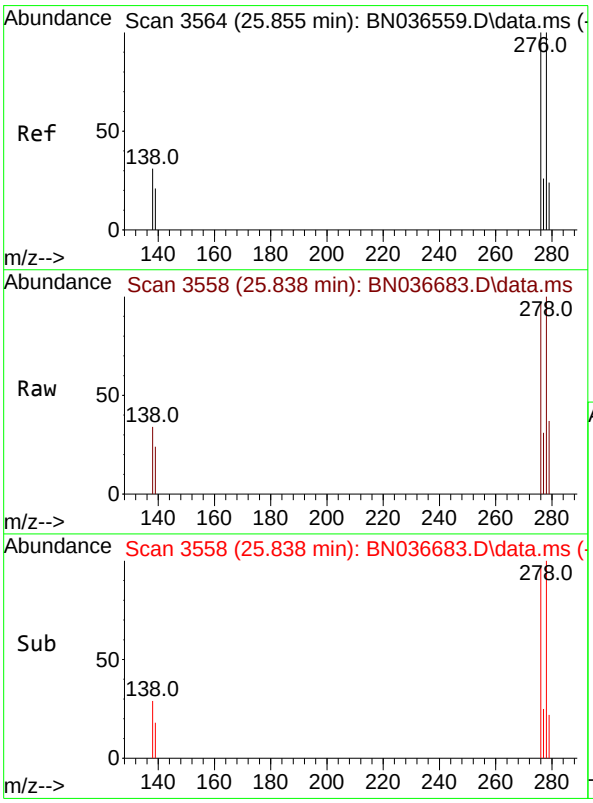
#39
Benzo(a)pyrene
Concen: 0.369 ng
RT: 23.440 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 3758

Ion	Ratio	Lower	Upper
252	100		
253	34.3	27.8	41.8
125	25.2	22.7	34.1

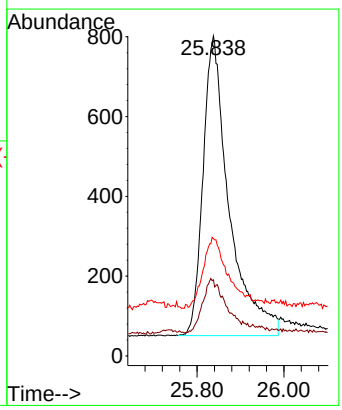


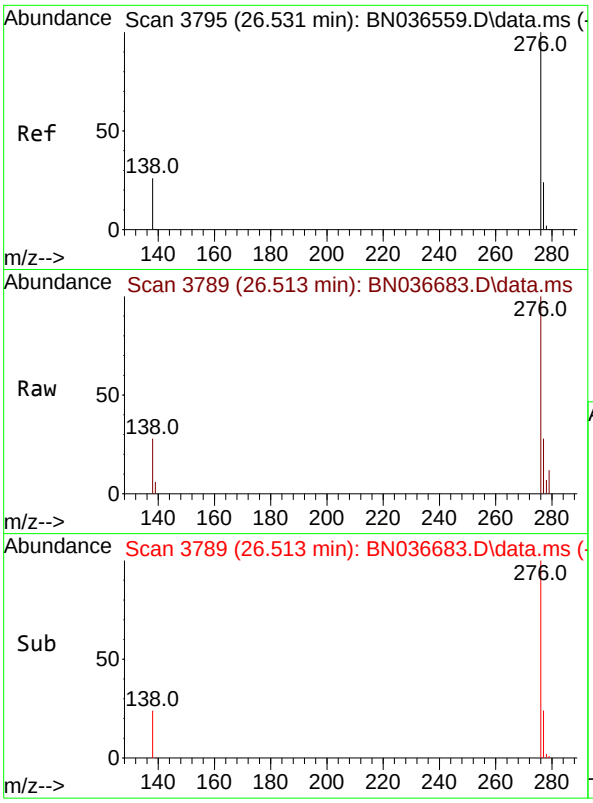


#40
Dibenzo(a,h)anthracene
Concen: 0.336 ng
RT: 25.838 min Scan# 3558
Delta R.T. -0.018 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Tgt Ion:278 Resp: 3134

Ion	Ratio	Lower	Upper
278	100		
139	23.8	20.8	31.2
279	36.7	28.8	43.2



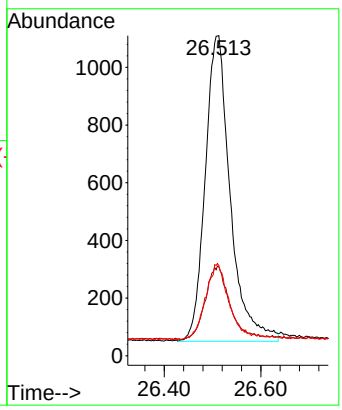


#41
Benzo(g,h,i)perylene
Concen: 0.358 ng
RT: 26.513 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN036683.D
Acq: 18 Mar 2025 09:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 3819

Ion	Ratio	Lower	Upper
276	100		
277	27.7	22.2	33.4
138	28.2	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036683.D
Acq On : 18 Mar 2025 09:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 10:42:23 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	82	-0.01
2		1,4-Dioxane	0.444	0.465	-4.7	77	0.00
3		n-Nitrosodimethylamine	0.898	0.896	0.2	79	0.00
4	S	2-Fluorophenol	0.932	0.812	12.9	68	0.00
5	S	Phenol-d6	1.152	1.004	12.8	73	-0.01
6		bis(2-Chloroethyl)ether	1.190	0.984	17.3	69	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	89	-0.01
8	S	Nitrobenzene-d5	0.435	0.380	12.6	81	-0.01
9		Naphthalene	1.177	1.055	10.4	78	-0.01
10		Hexachlorobutadiene	0.277	0.249	10.1	75	-0.01
11	SURR	2-Methylnaphthalene-d10	0.595	0.523	12.1	77	-0.02
12		2-Methylnaphthalene	0.749	0.663	11.5	77	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.172	5.5	80	-0.01
15	S	2-Fluorobiphenyl	2.327	2.136	8.2	78	-0.01
16		Acenaphthylene	1.888	1.723	8.7	78	-0.01
17		Acenaphthene	1.236	1.124	9.1	77	-0.02
18		Fluorene	1.672	1.554	7.1	77	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	88	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.063	26.7#	72	0.00
21		4-Bromophenyl-phenylether	0.251	0.238	5.2	76	0.00
22		Hexachlorobenzene	0.303	0.278	8.3	73	-0.01
23		Atrazine	0.201	0.185	8.0	76	0.00
24		Pentachlorophenol	0.138	0.122	11.6	78	-0.01
25		Phenanthrene	1.200	1.147	4.4	78	-0.01
26		Anthracene	1.083	1.030	4.9	79	-0.01
27	SURR	Fluoranthene-d10	1.025	0.969	5.5	76	0.00
28		Fluoranthene	1.348	1.309	2.9	79	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	94	0.00
30		Pyrene	1.956	1.750	10.5	77	0.00
31	S	Terphenyl-d14	0.958	0.834	12.9	76	0.00
32		Benzo(a)anthracene	1.391	1.239	10.9	81	0.00
33		Chrysene	1.520	1.436	5.5	84	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.899	9.2	81	0.00
35	I	Perylene-d12	1.000	1.000	0.0	94	-0.02
36		Indeno(1,2,3-cd)pyrene	1.444	1.270	12.0	77	-0.02
37		Benzo(b)fluoranthene	1.456	1.359	6.7	82	-0.01
38		Benzo(k)fluoranthene	1.527	1.408	7.8	82	-0.01
39	C	Benzo(a)pyrene	1.226	1.132	7.7	81	-0.01
40		Dibenzo(a,h)anthracene	1.124	0.944	16.0	76	-0.02
41		Benzo(g,h,i)perylene	1.286	1.151	10.5	78	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036683.D
Acq On : 18 Mar 2025 09:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 10:42:23 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	82	-0.01
2		1,4-Dioxane	0.400	0.419	-4.7	77	0.00
3		n-Nitrosodimethylamine	0.400	0.399	0.3	79	0.00
4	S	2-Fluorophenol	0.400	0.348	13.0	68	0.00
5	S	Phenol-d6	0.400	0.349	12.8	73	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.330	17.5	69	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	89	-0.01
8	S	Nitrobenzene-d5	0.400	0.349	12.8	81	-0.01
9		Naphthalene	0.400	0.359	10.3	78	-0.01
10		Hexachlorobutadiene	0.400	0.359	10.3	75	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	77	-0.02
12		2-Methylnaphthalene	0.400	0.354	11.5	77	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	87	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.378	5.5	80	-0.01
15	S	2-Fluorobiphenyl	0.400	0.367	8.3	78	-0.01
16		Acenaphthylene	0.400	0.365	8.8	78	-0.01
17		Acenaphthene	0.400	0.364	9.0	77	-0.02
18		Fluorene	0.400	0.372	7.0	77	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	88	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.394	1.5	72	0.00
21		4-Bromophenyl-phenylether	0.400	0.380	5.0	76	0.00
22		Hexachlorobenzene	0.400	0.368	8.0	73	-0.01
23		Atrazine	0.400	0.369	7.8	76	0.00
24		Pentachlorophenol	0.400	0.354	11.5	78	-0.01
25		Phenanthrene	0.400	0.382	4.5	78	-0.01
26		Anthracene	0.400	0.381	4.8	79	-0.01
27	SURR	Fluoranthene-d10	0.400	0.378	5.5	76	0.00
28		Fluoranthene	0.400	0.388	3.0	79	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	94	0.00
30		Pyrene	0.400	0.358	10.5	77	0.00
31	S	Terphenyl-d14	0.400	0.348	13.0	76	0.00
32		Benzo(a)anthracene	0.400	0.356	11.0	81	0.00
33		Chrysene	0.400	0.378	5.5	84	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.363	9.3	81	0.00
35	I	Perylene-d12	0.400	0.400	0.0	94	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.352	12.0	77	-0.02
37		Benzo(b)fluoranthene	0.400	0.373	6.8	82	-0.01
38		Benzo(k)fluoranthene	0.400	0.369	7.8	82	-0.01
39	C	Benzo(a)pyrene	0.400	0.369	7.8	81	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.336	16.0	76	-0.02
41		Benzo(g,h,i)perylene	0.400	0.358	10.5	78	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 12:35

Lab File ID: BN036687.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	0.532		-10.6	50.0
Fluoranthene-d10	1.025	0.964		-6.0	50.0
2-Fluorophenol	0.932	0.829		-11.1	50.0
Phenol-d6	1.152	1.015		-11.9	50.0
Nitrobenzene-d5	0.435	0.372		-14.5	50.0
2-Fluorobiphenyl	2.327	2.097		-9.9	50.0
2,4,6-Tribromophenol	0.182	0.166		-8.8	50.0
Terphenyl-d14	0.958	0.858		-10.4	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\BN031825\
Data File : BN036687.D
Acq On : 18 Mar 2025 12:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 12:58:38 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

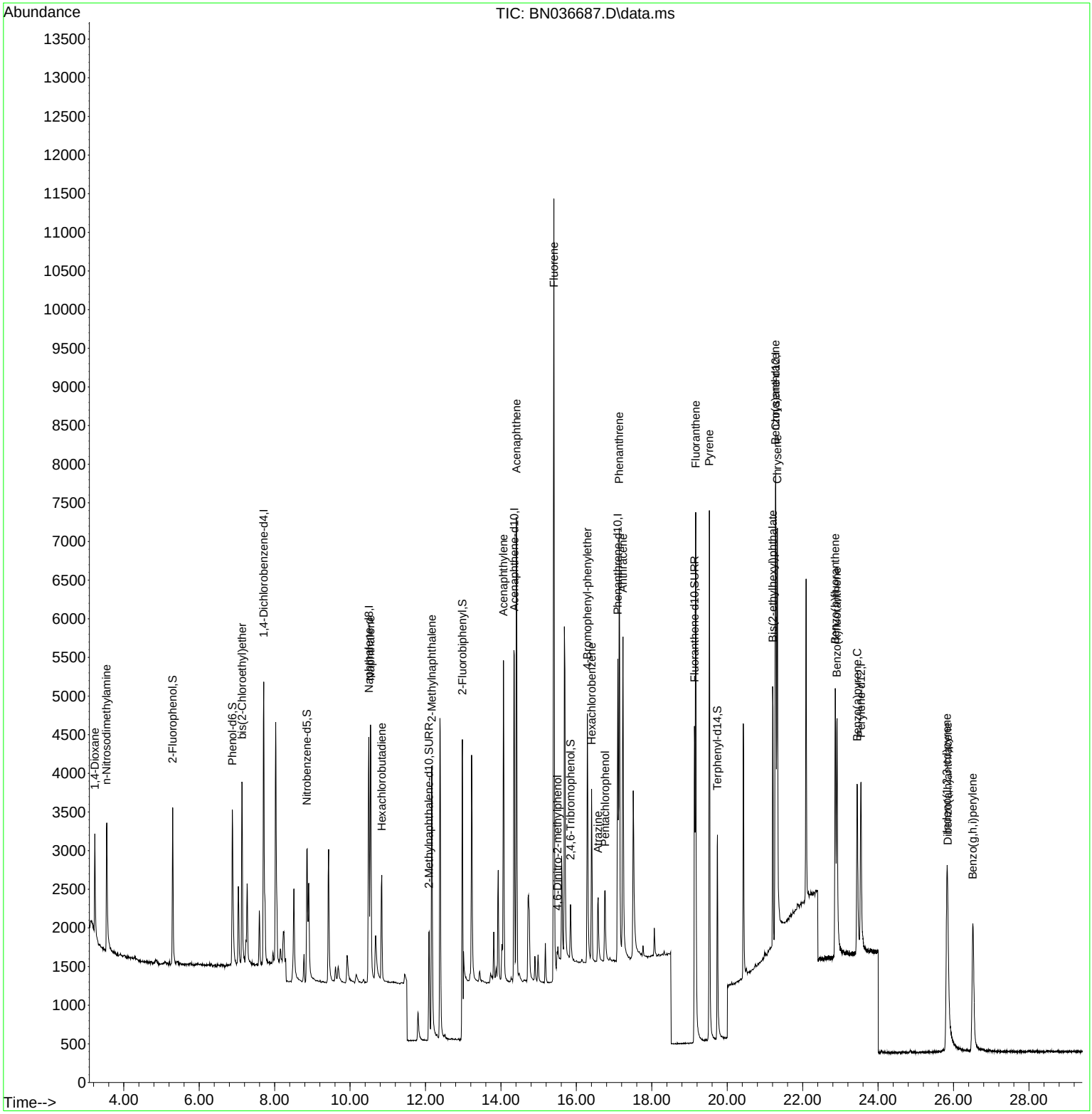
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.710	152	1764	0.400	ng		-0.01
7) Naphthalene-d8	10.498	136	4529	0.400	ng		-0.01
13) Acenaphthene-d10	14.356	164	2699	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	5496	0.400	ng		-0.01
29) Chrysene-d12	21.286	240	3915	0.400	ng		0.00
35) Perylene-d12	23.546	264	3408	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.298	112	1463	0.356	ng		-0.01
5) Phenol-d6	6.879	99	1790	0.352	ng		-0.02
8) Nitrobenzene-d5	8.854	82	1684	0.342	ng		-0.02
11) 2-Methylnaphthalene-d10	12.091	152	2408	0.357	ng		-0.02
14) 2,4,6-Tribromophenol	15.845	330	449	0.367	ng		-0.01
15) 2-Fluorobiphenyl	12.978	172	5661	0.361	ng		0.00
27) Fluoranthene-d10	19.132	212	5300	0.376	ng		0.00
31) Terphenyl-d14	19.740	244	3360	0.358	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.232	88	765	0.391	ng		97
3) n-Nitrosodimethylamine	3.543	42	1615	0.408	ng	#	87
6) bis(2-Chloroethyl)ether	7.139	93	1823	0.347	ng		99
9) Naphthalene	10.541	128	4784	0.359	ng		100
10) Hexachlorobutadiene	10.840	225	1131	0.361	ng	#	98
12) 2-Methylnaphthalene	12.167	142	3104	0.366	ng		98
16) Acenaphthylene	14.067	152	4629	0.363	ng		100
17) Acenaphthene	14.409	154	3057	0.367	ng		100
18) Fluorene	15.403	166	4183	0.371	ng		99
20) 4,6-Dinitro-2-methylph...	15.499	198	352	0.397	ng		91
21) 4-Bromophenyl-phenylether	16.292	248	1305	0.379	ng		93
22) Hexachlorobenzene	16.404	284	1518	0.365	ng		95
23) Atrazine	16.578	200	1028	0.372	ng		94
24) Pentachlorophenol	16.764	266	634	0.334	ng		95
25) Phenanthrene	17.136	178	6196	0.376	ng		99
26) Anthracene	17.235	178	5487	0.369	ng		100
28) Fluoranthene	19.164	202	7032	0.380	ng		99
30) Pyrene	19.527	202	7070	0.369	ng		100
32) Benzo(a)anthracene	21.277	228	4732	0.348	ng		99
33) Chrysene	21.331	228	5693	0.383	ng		98
34) Bis(2-ethylhexyl)phtha...	21.205	149	3464	0.357	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.823	276	4254	0.346	ng		97
37) Benzo(b)fluoranthene	22.864	252	4593	0.370	ng		96
38) Benzo(k)fluoranthene	22.908	252	4818	0.370	ng		95
39) Benzo(a)pyrene	23.446	252	3841	0.368	ng		95
40) Dibenzo(a,h)anthracene	25.847	278	3233	0.338	ng		97
41) Benzo(g,h,i)perylene	26.513	276	3822	0.349	ng		97

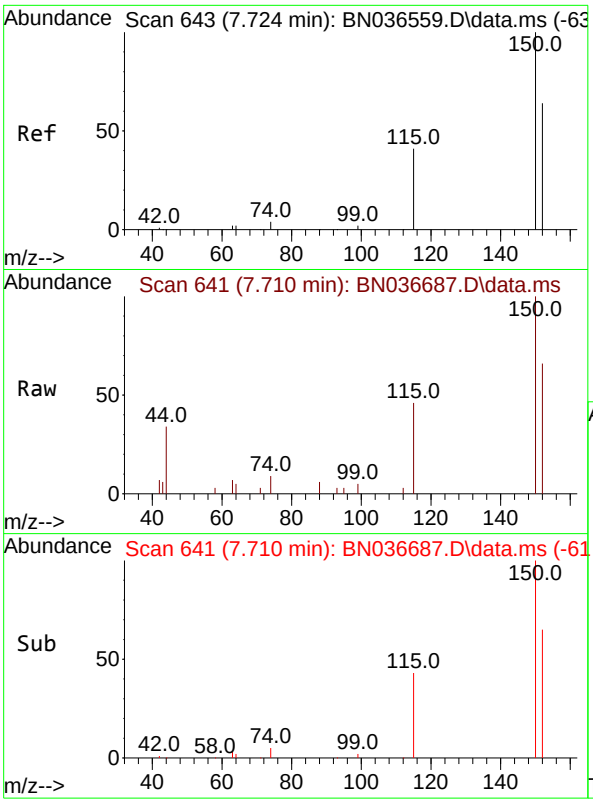
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036687.D
Acq On : 18 Mar 2025 12:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 12:58:38 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



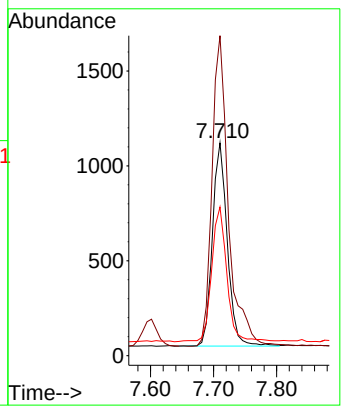


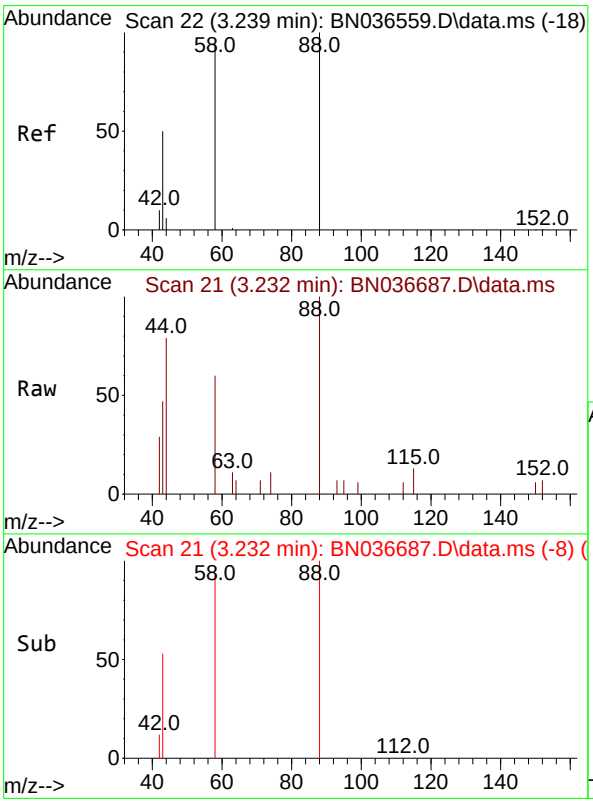
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1764

Ion	Ratio	Lower	Upper
152	100		
150	150.4	123.7	185.5
115	69.8	54.3	81.5

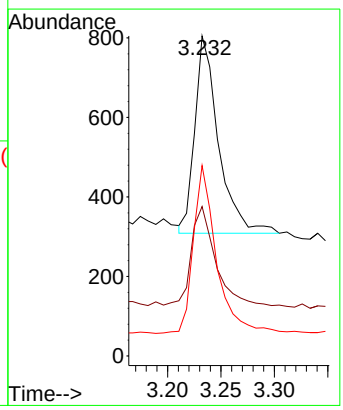


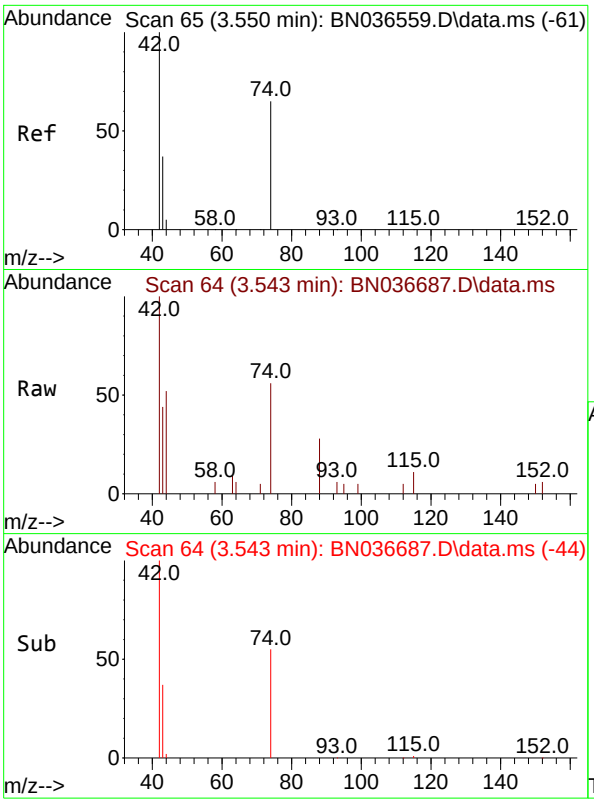


#2
1,4-Dioxane
Concen: 0.391 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion: 88 Resp: 765

Ion	Ratio	Lower	Upper
88	100		
43	51.4	37.8	56.8
58	82.9	67.4	101.2



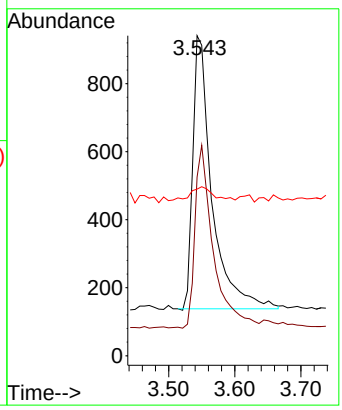


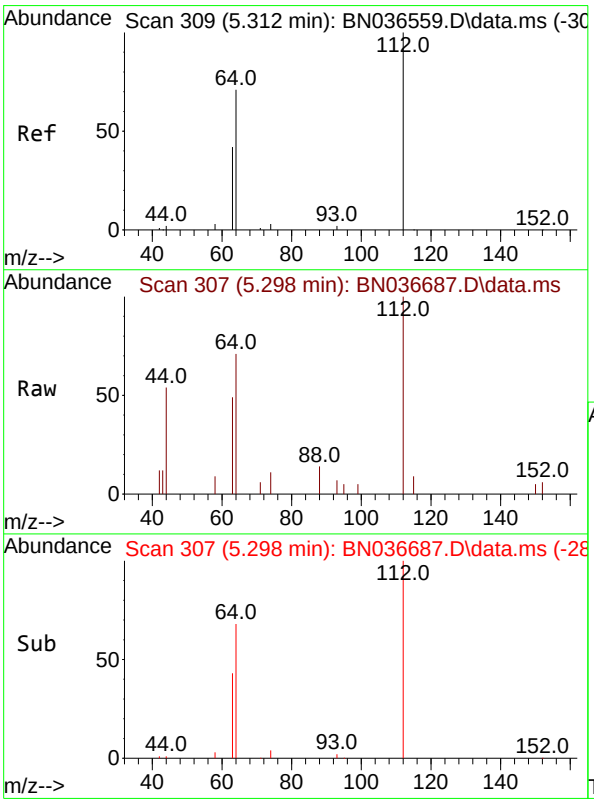
#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1615

Ion	Ratio	Lower	Upper
42	100		
74	63.5	60.6	90.8
44	6.0	6.3	9.5#

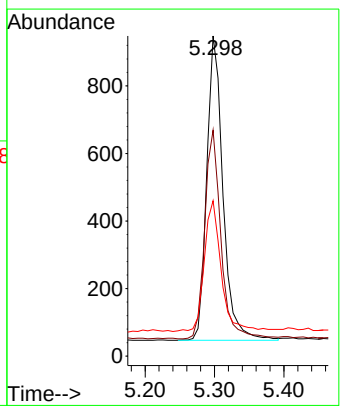


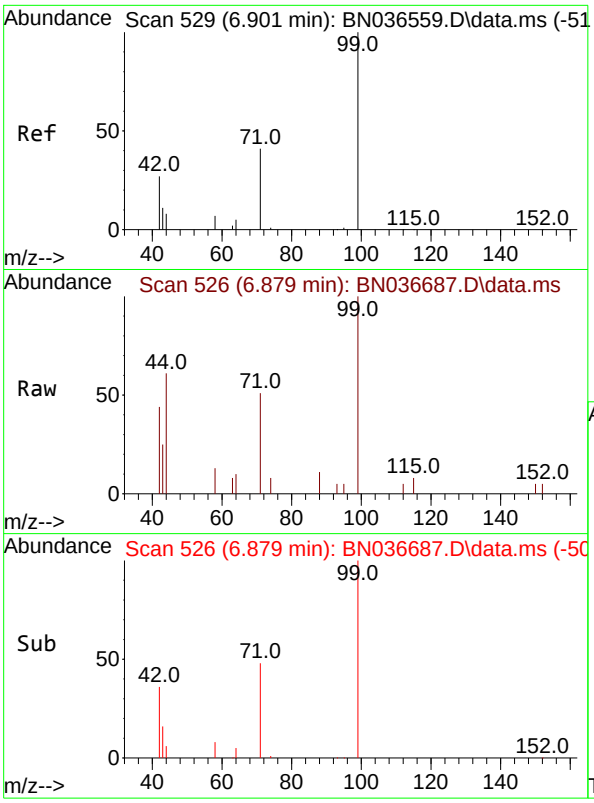


#4
2-Fluorophenol
Concen: 0.356 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.014 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:112 Resp: 1463

Ion	Ratio	Lower	Upper
112	100		
64	68.9	53.1	79.7
63	44.8	31.8	47.8



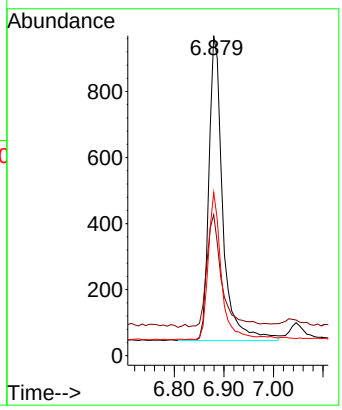


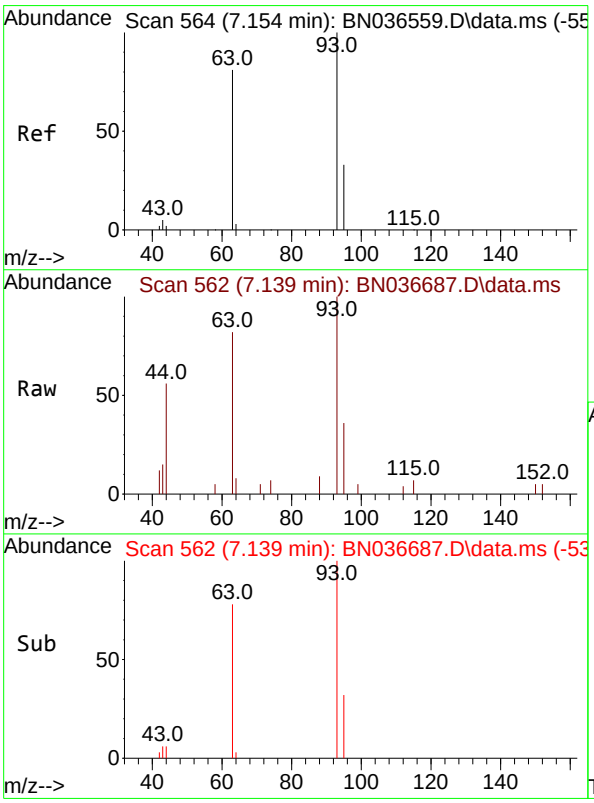
#5
Phenol-d6
Concen: 0.352 ng
RT: 6.879 min Scan# 5
Delta R.T. -0.022 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1790

Ion	Ratio	Lower	Upper
99	100		
42	39.8	26.5	39.7#
71	44.7	34.1	51.1

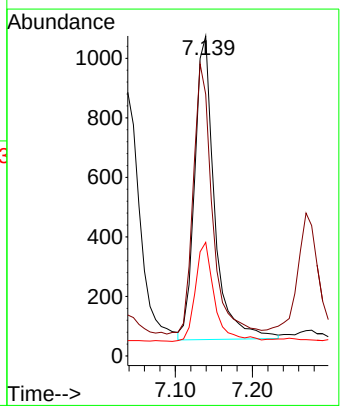


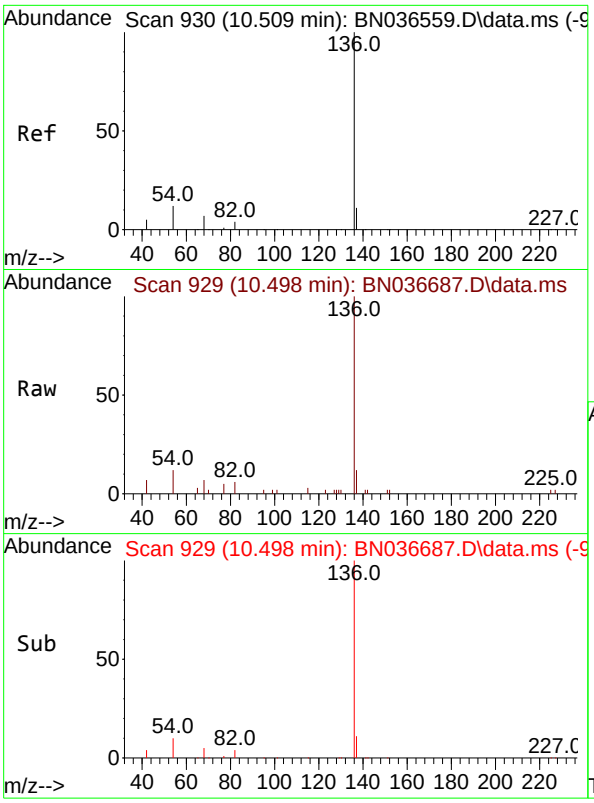


#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion: 93 Resp: 1823

Ion	Ratio	Lower	Upper
93	100		
63	85.2	67.7	101.5
95	31.6	25.6	38.4



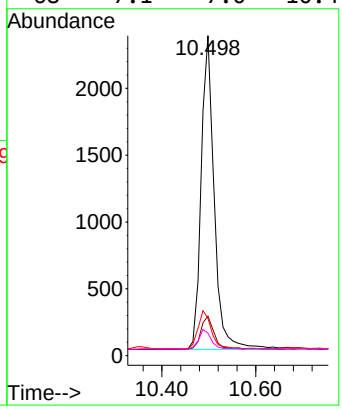


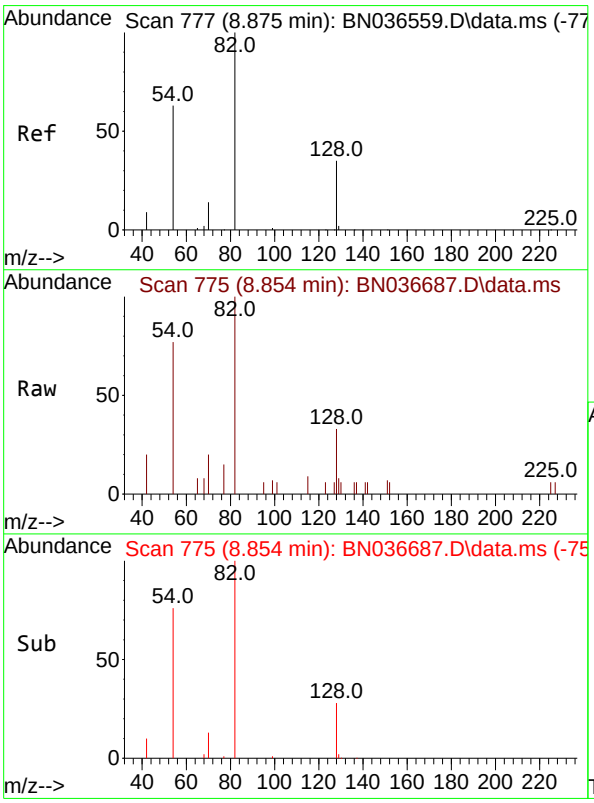
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4529

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.3	15.5
54	11.7	11.5	17.3
68	7.1	7.0	10.4

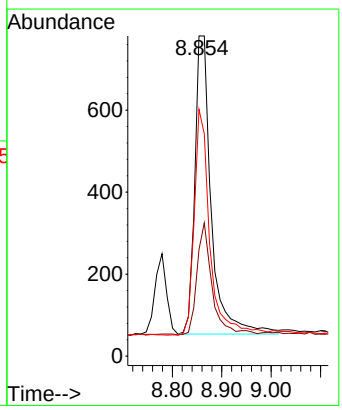


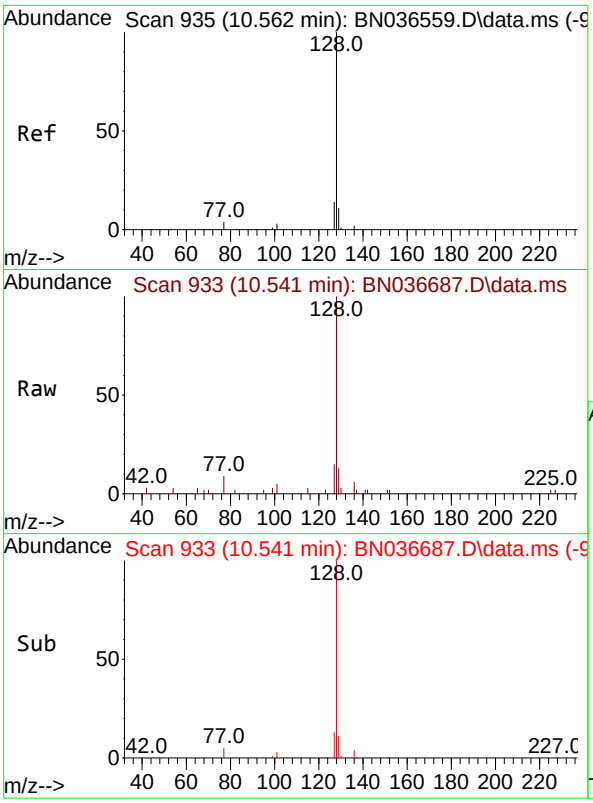


#8
Nitrobenzene-d5
Concen: 0.342 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion: 82 Resp: 1684

Ion	Ratio	Lower	Upper
82	100		
128	33.3	30.6	45.8
54	77.1	52.2	78.4



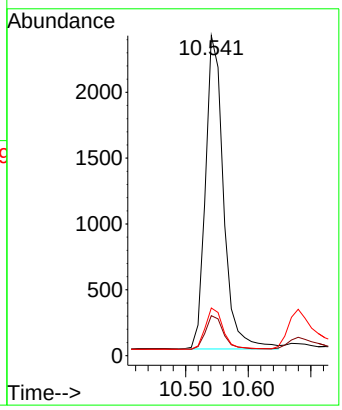


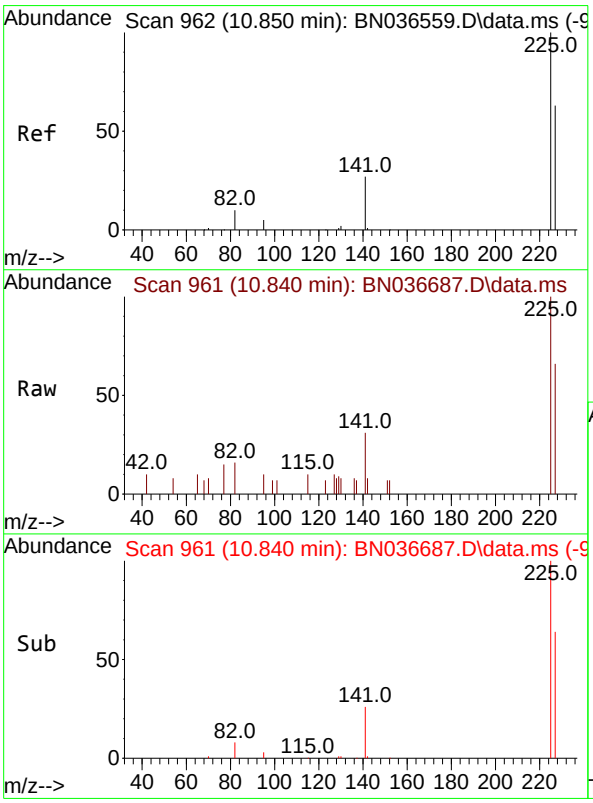
#9
Naphthalene
Concen: 0.359 ng
RT: 10.541 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4784

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.9	11.8	17.8

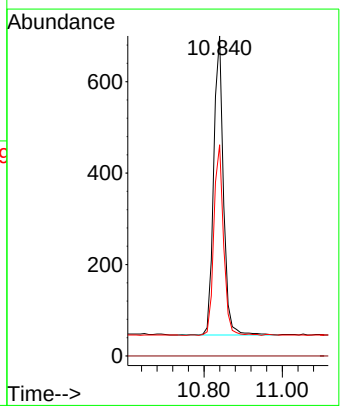


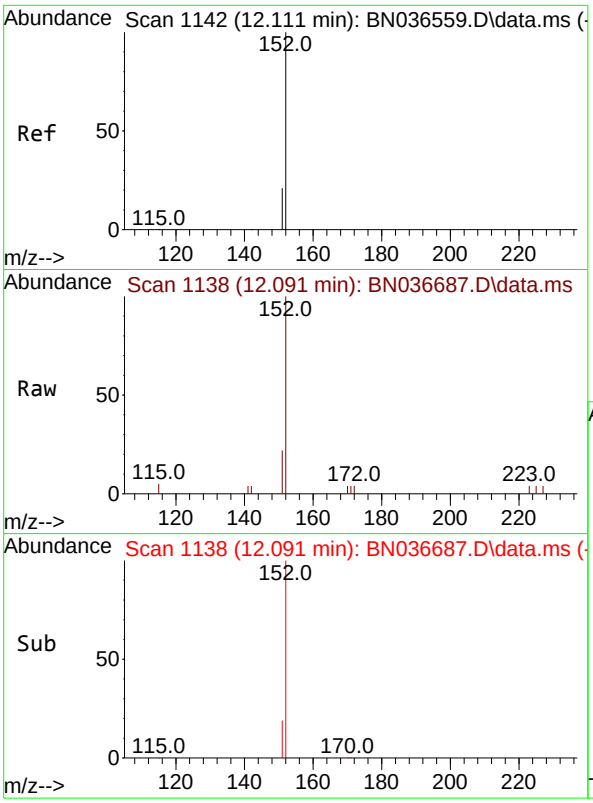


#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:225 Resp: 1131

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



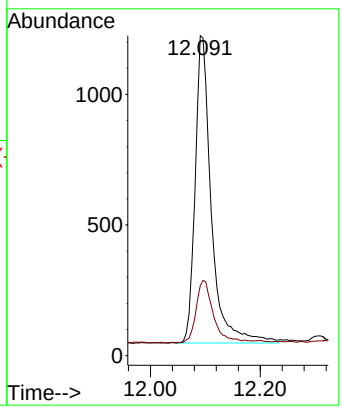


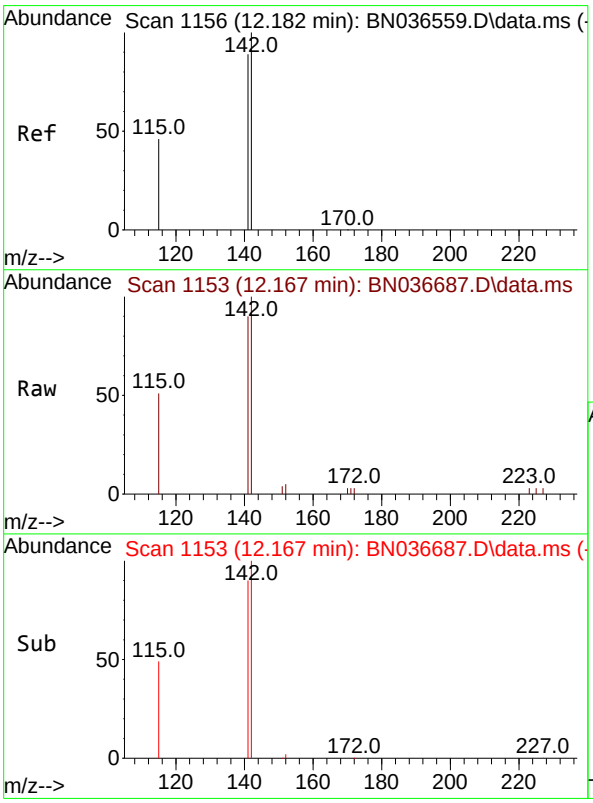
#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.091 min Scan# 11
Delta R.T. -0.020 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2408

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

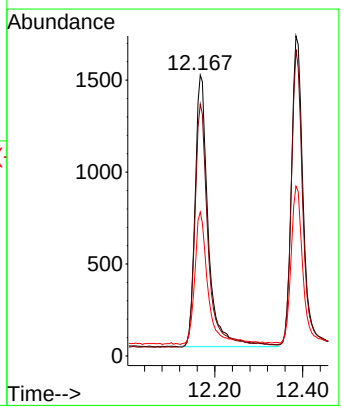


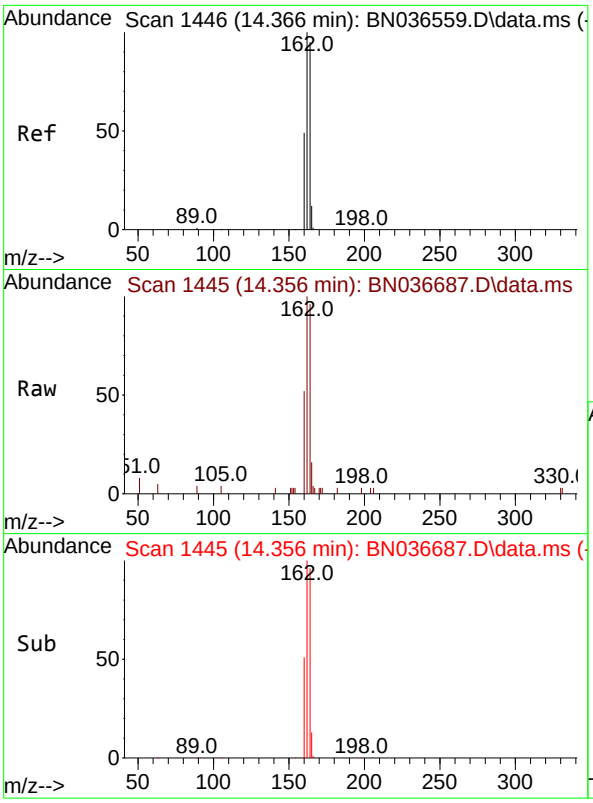


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.015 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:142 Resp: 3104

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.7	107.5
115	51.2	38.3	57.5



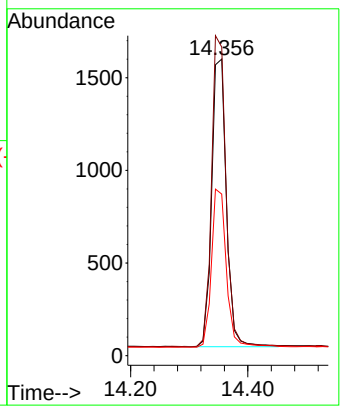


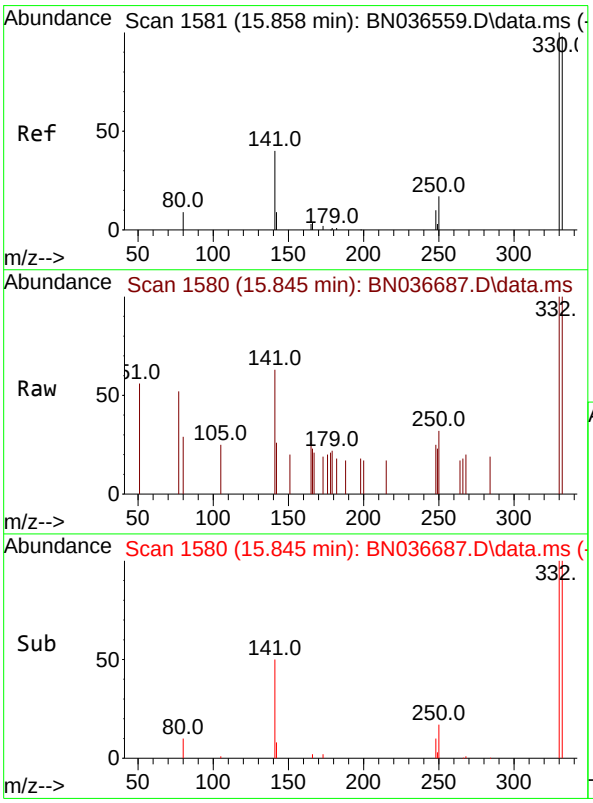
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2699

Ion	Ratio	Lower	Upper
164	100		
162	104.1	84.2	126.2
160	54.5	42.2	63.2

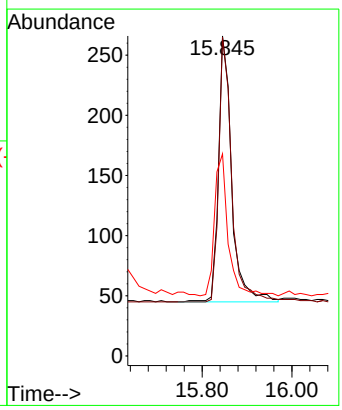


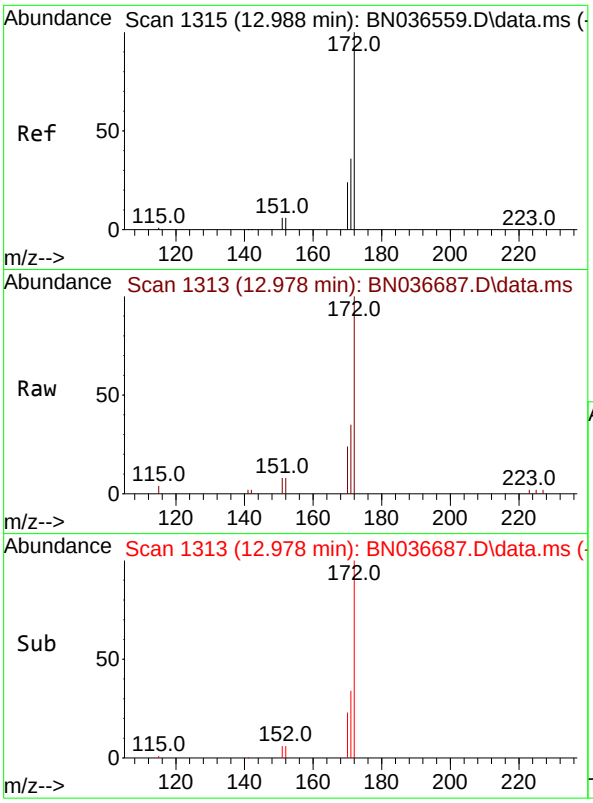


#14
2,4,6-Tribromophenol
Concen: 0.367 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:330 Resp: 449

Ion	Ratio	Lower	Upper
330	100		
332	97.8	75.2	112.8
141	55.0	43.4	65.2



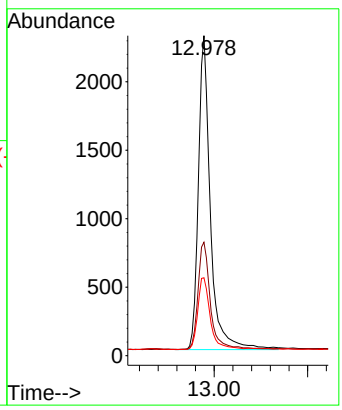


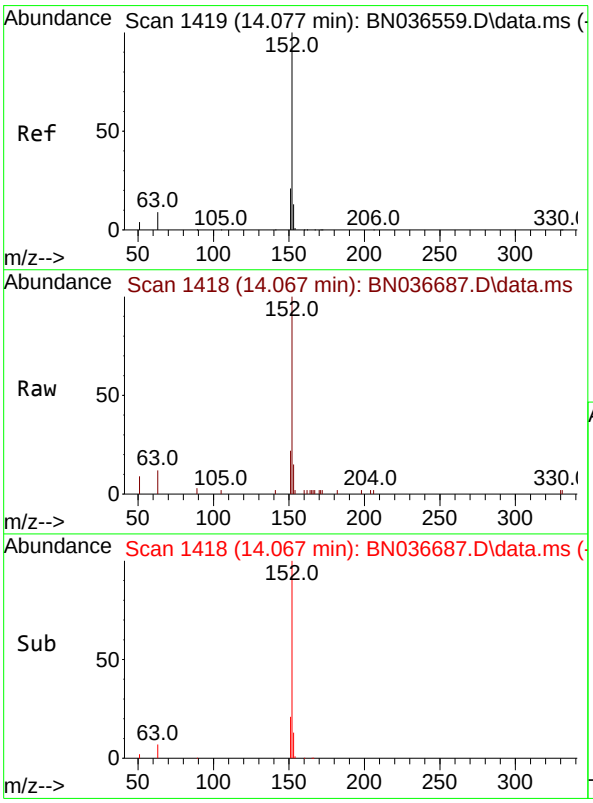
#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5661

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.5	44.3
170	24.3	20.2	30.4

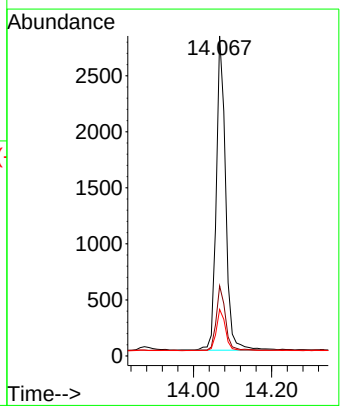


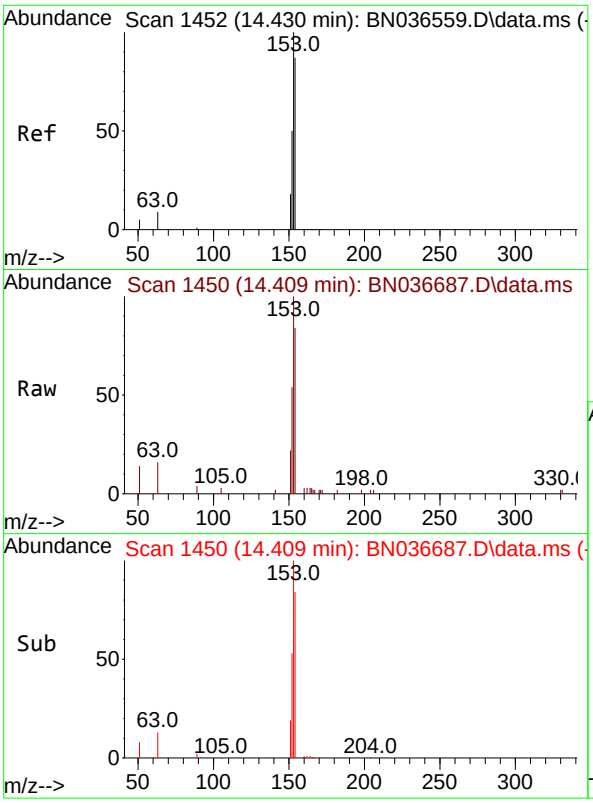


#16
Acenaphthylene
Concen: 0.363 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:152 Resp: 4629

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.3	10.6	15.8



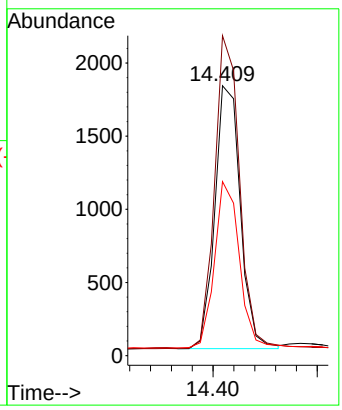


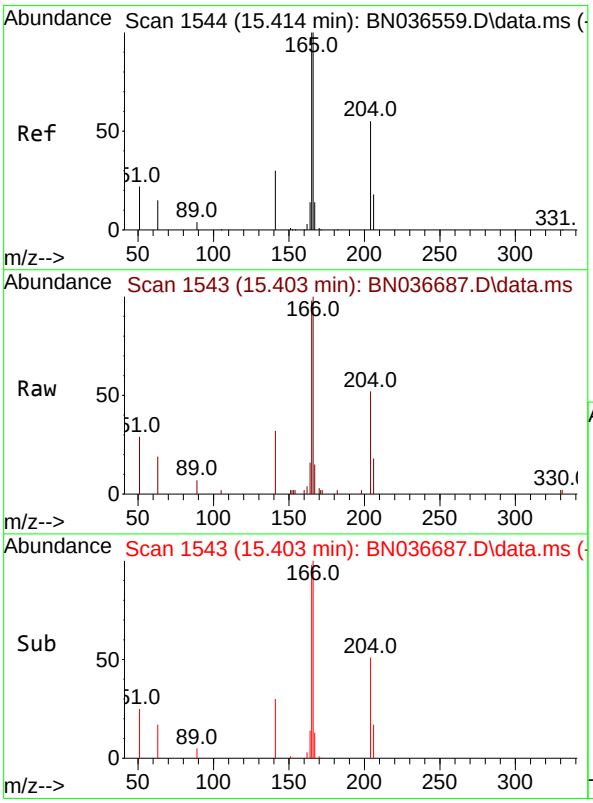
#17
Acenaphthene
Concen: 0.367 ng
RT: 14.409 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3057

Ion	Ratio	Lower	Upper
154	100		
153	117.5	94.1	141.1
152	62.2	49.8	74.6

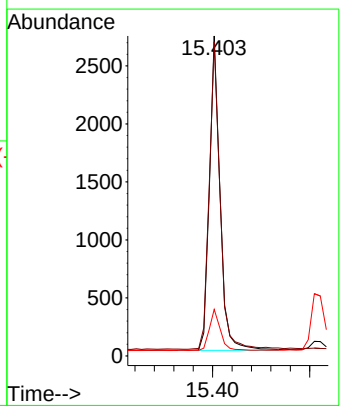


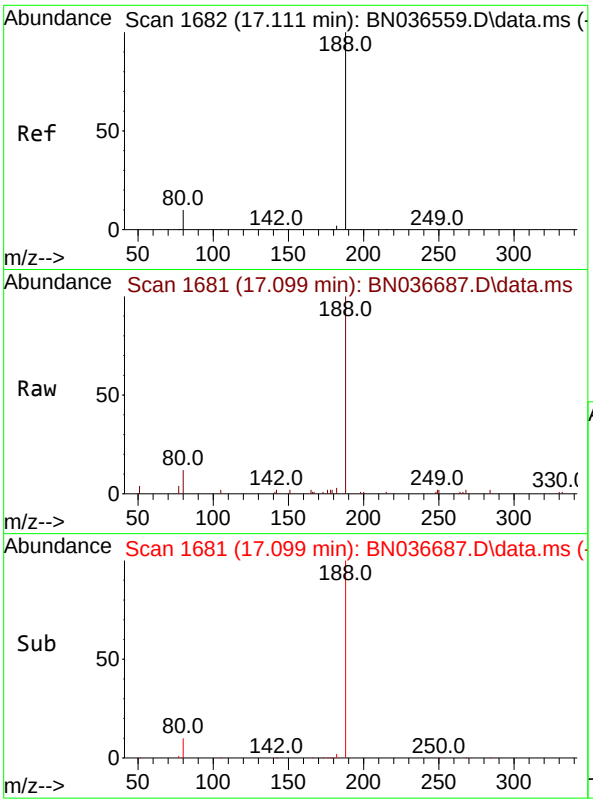


#18
Fluorene
Concen: 0.371 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:166 Resp: 4183

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.2	10.6	15.8



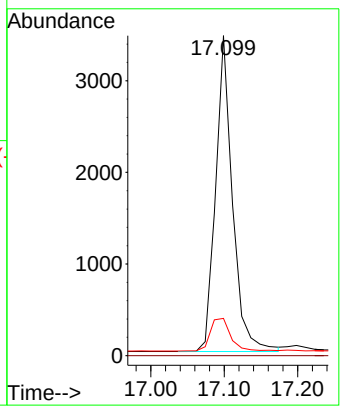


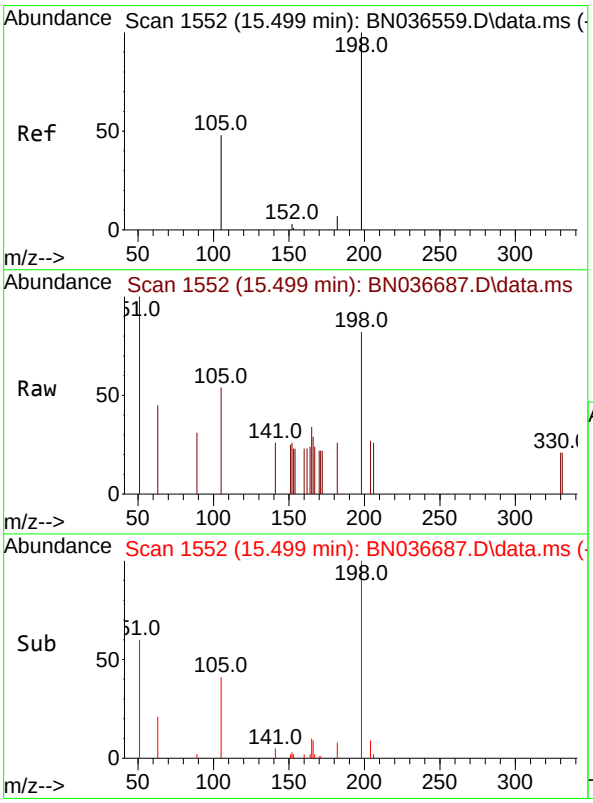
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5496

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

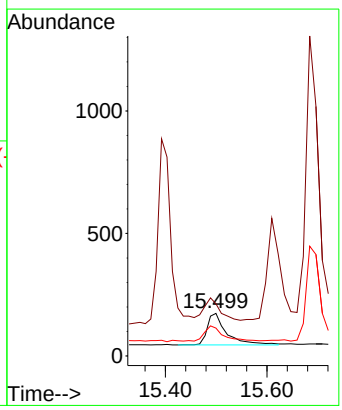


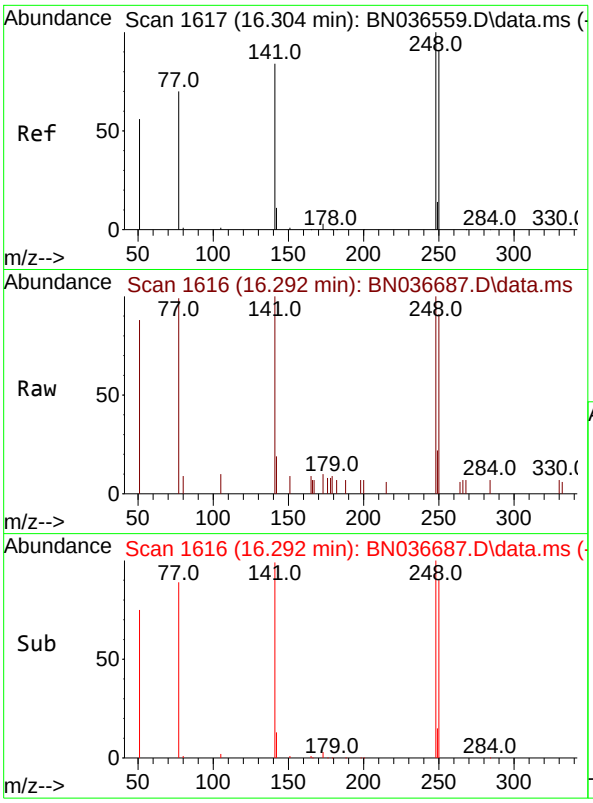


#20
4,6-Dinitro-2-methylphenol
Concen: 0.397 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:198 Resp: 352

Ion	Ratio	Lower	Upper
198	100		
51	122.4	107.9	161.9
105	65.5	56.2	84.2



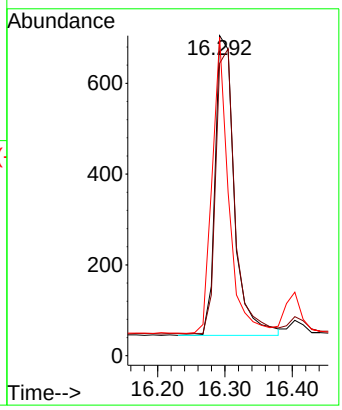


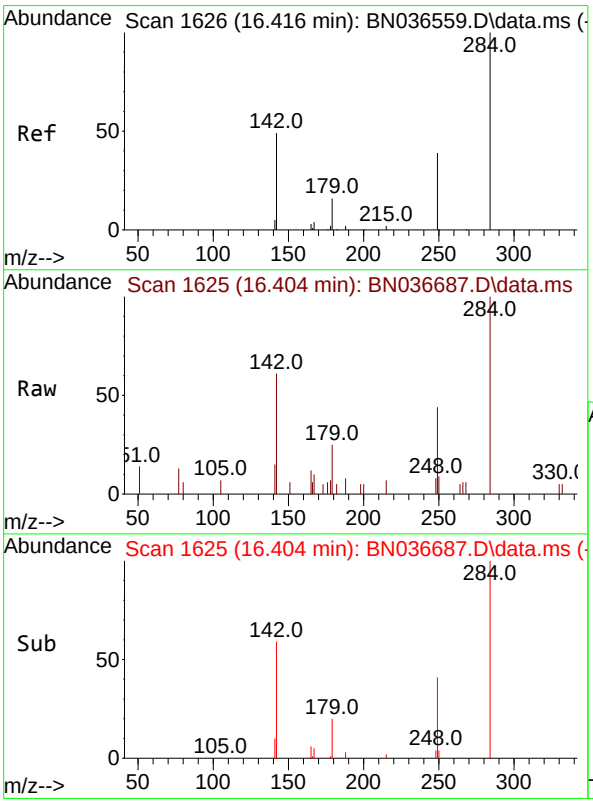
#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1305

Ion	Ratio	Lower	Upper
248	100		
250	91.3	73.0	109.6
141	99.6	68.6	103.0

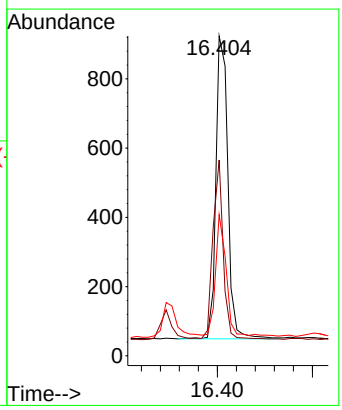


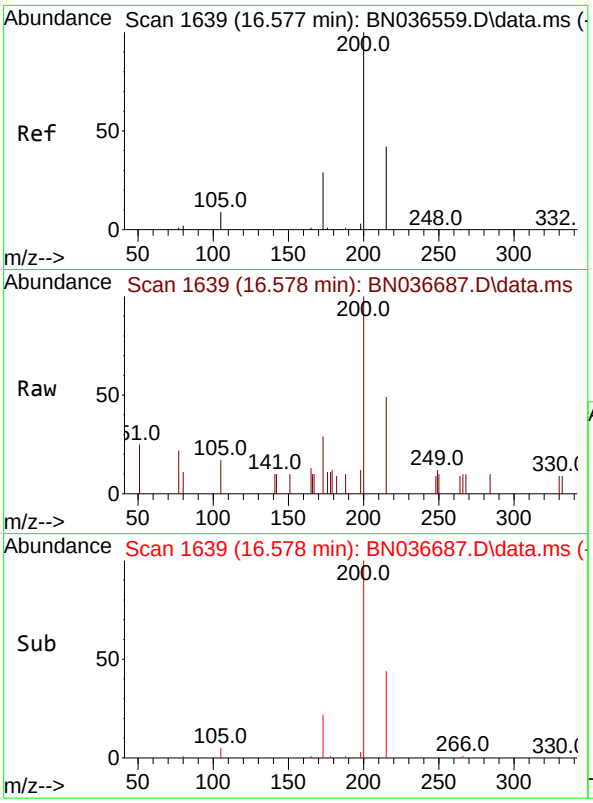


#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:284 Resp: 1518

Ion	Ratio	Lower	Upper
284	100		
142	51.8	37.0	55.4
249	34.8	28.1	42.1



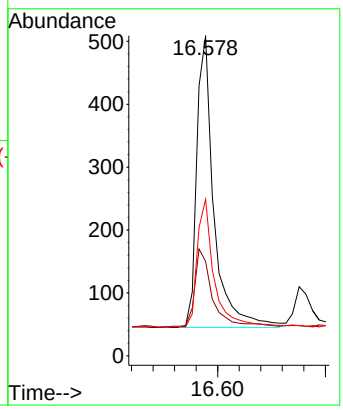


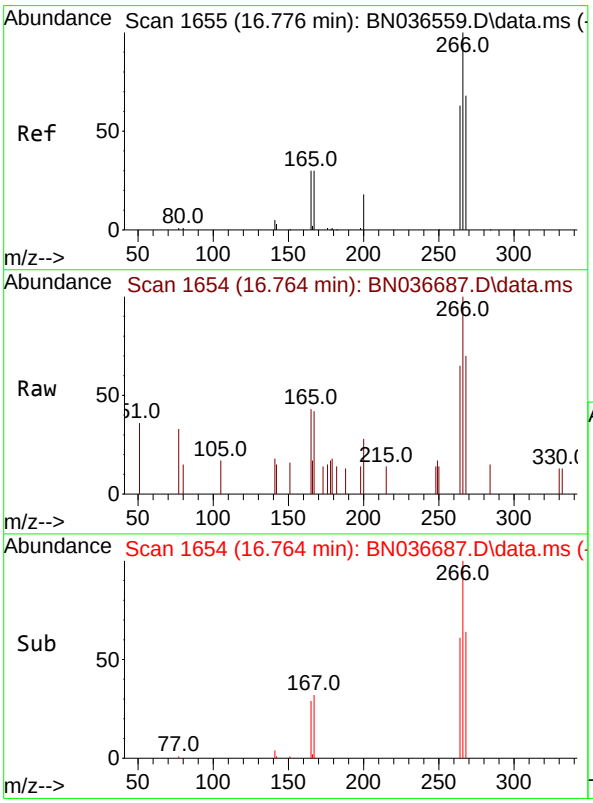
#23
Atrazine
Concen: 0.372 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1028

Ion	Ratio	Lower	Upper
200	100		
173	29.5	27.3	40.9
215	48.9	36.8	55.2

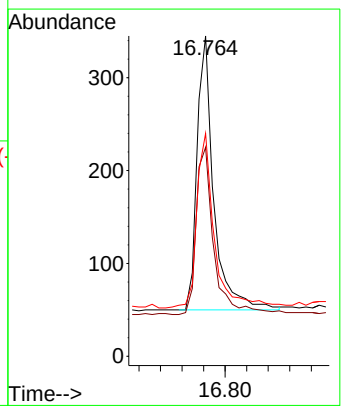


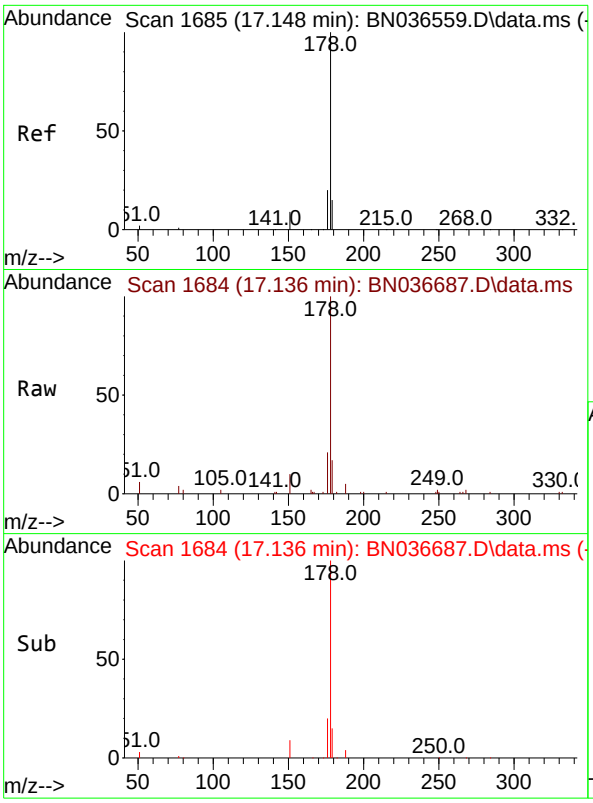


#24
Pentachlorophenol
Concen: 0.334 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:266 Resp: 634

Ion	Ratio	Lower	Upper
266	100		
264	65.1	49.6	74.4
268	68.3	50.9	76.3



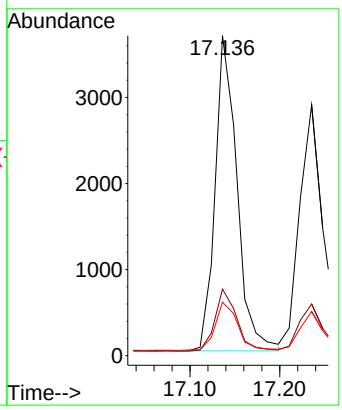


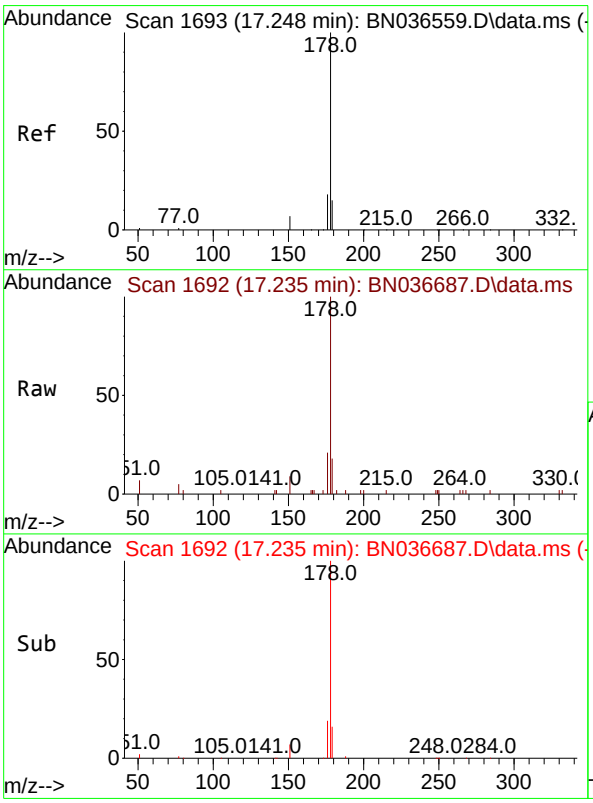
#25
Phenanthrene
Concen: 0.376 ng
RT: 17.136 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6196

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.7	12.2	18.4

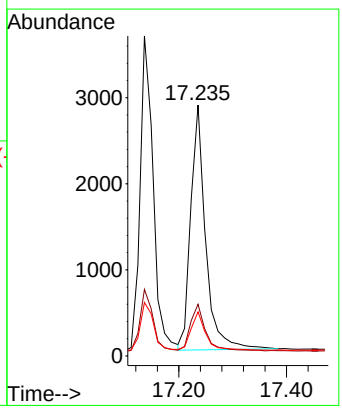


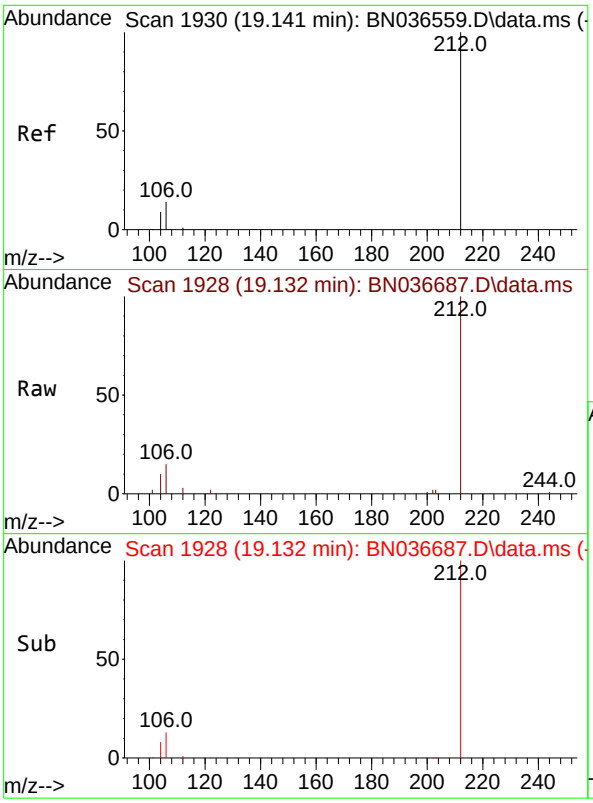


#26
Anthracene
Concen: 0.369 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:178 Resp: 5487

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.6	18.8



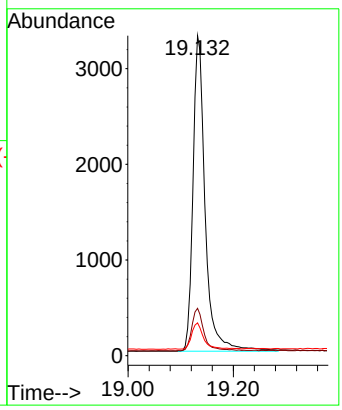


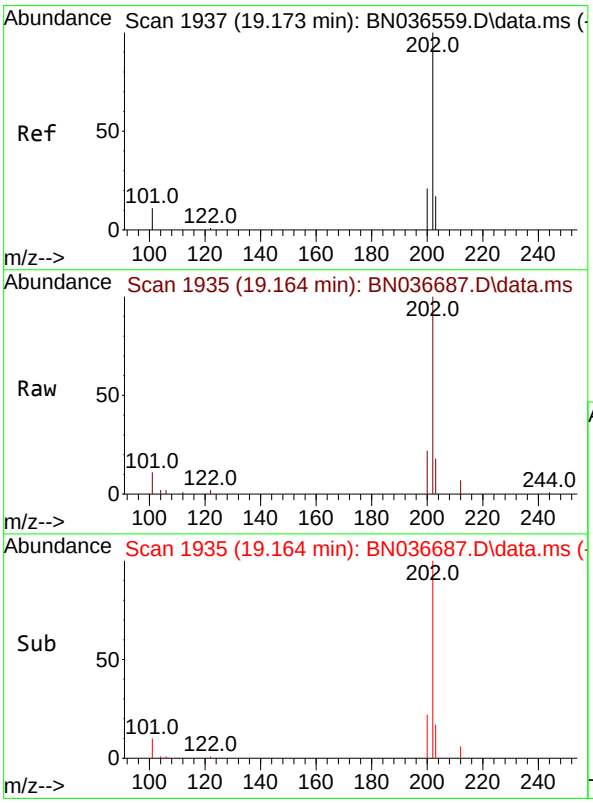
#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 5300

Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.8	17.6
104	8.2	7.3	10.9

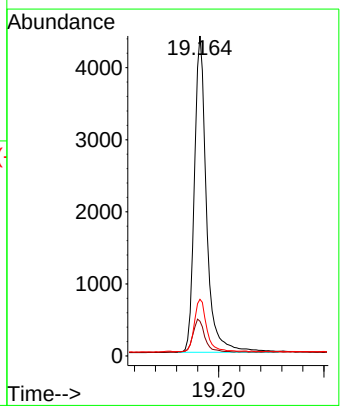


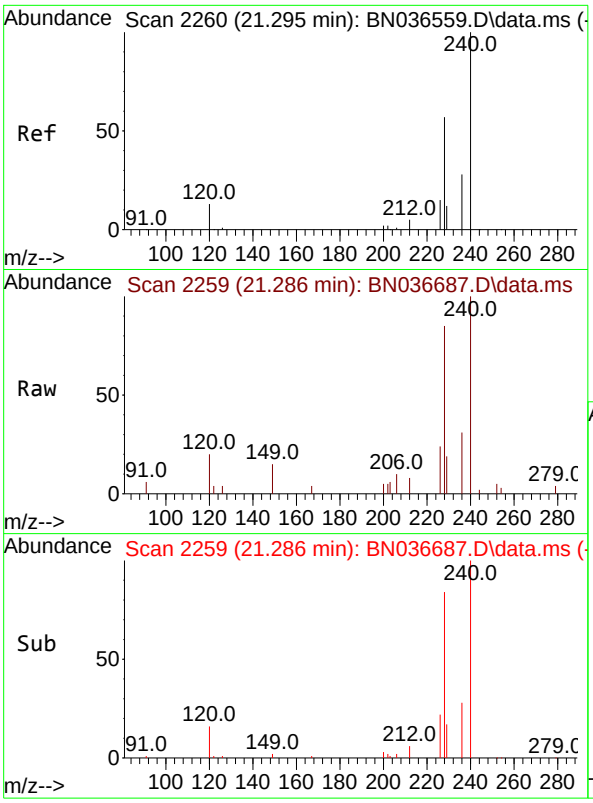


#28
Fluoranthene
Concen: 0.380 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:202 Resp: 7032

Ion	Ratio	Lower	Upper
202	100		
101	10.5	9.4	14.0
203	16.8	13.5	20.3



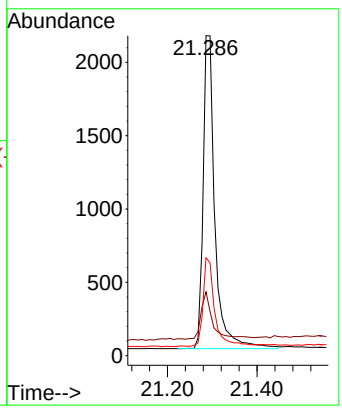


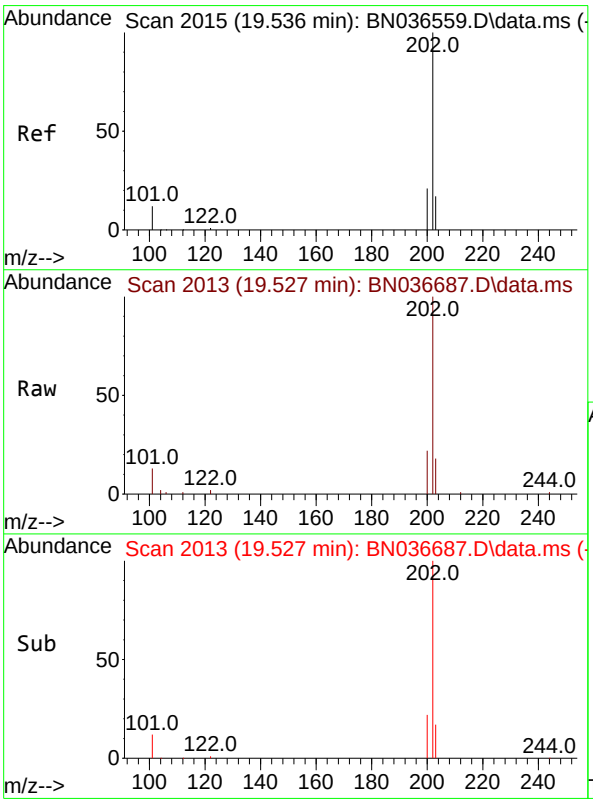
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.286 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 3915

Ion	Ratio	Lower	Upper
240	100		
120	20.0	14.6	22.0
236	30.6	24.1	36.1

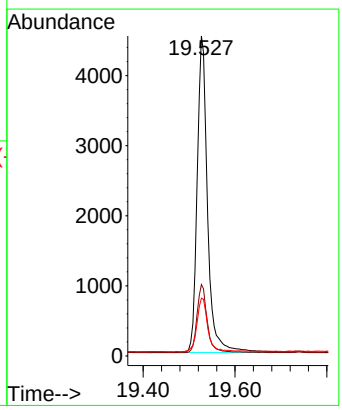


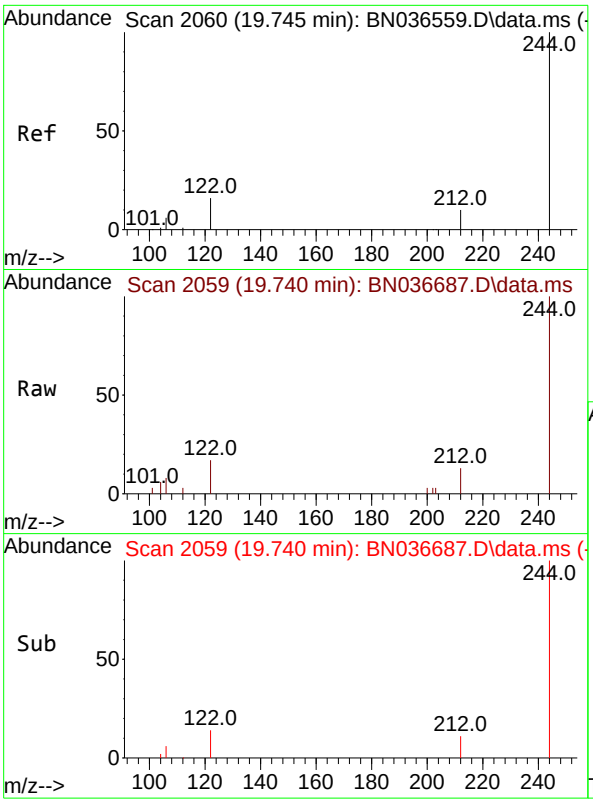


#30
Pyrene
Concen: 0.369 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:202 Resp: 7070

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



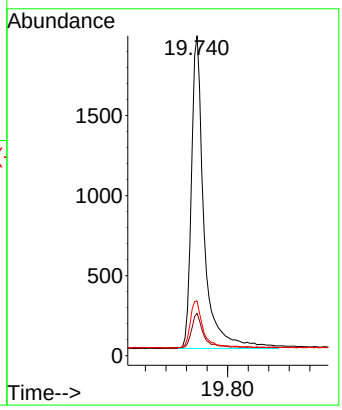


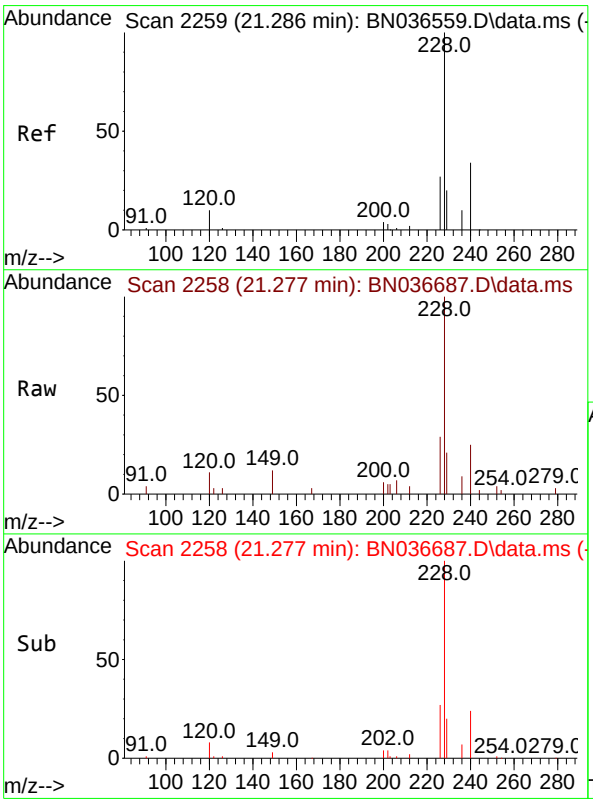
#31
Terphenyl-d14
Concen: 0.358 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3360

Ion	Ratio	Lower	Upper
244	100		
212	13.2	9.6	14.4
122	17.1	13.9	20.9

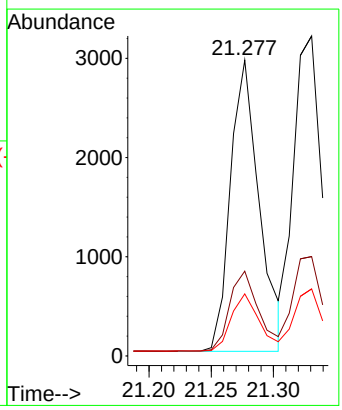


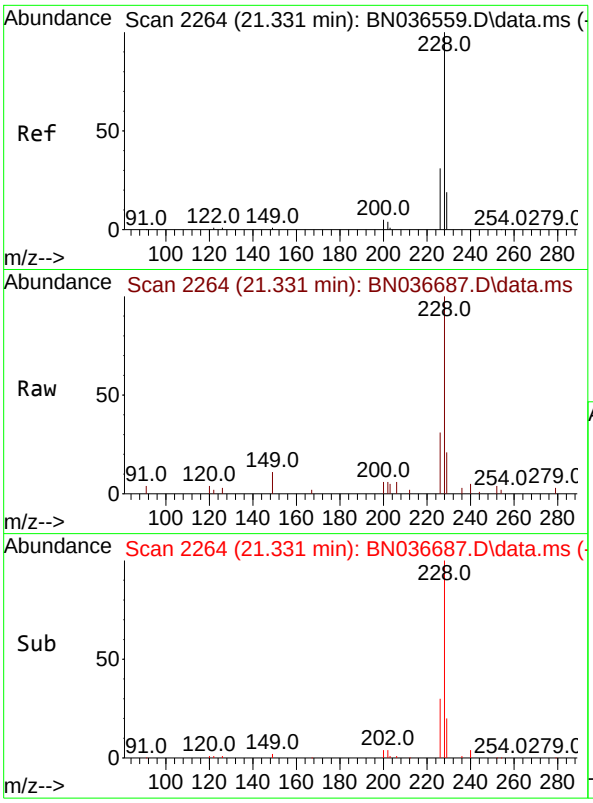


#32
Benzo(a)anthracene
Concen: 0.348 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:228 Resp: 4732

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.5	33.7
229	21.0	16.6	25.0



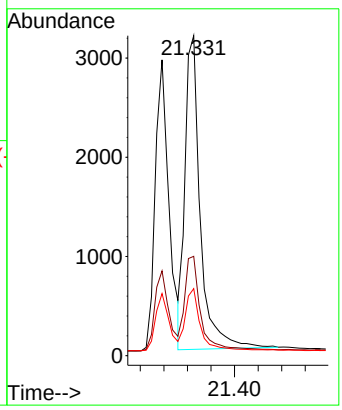


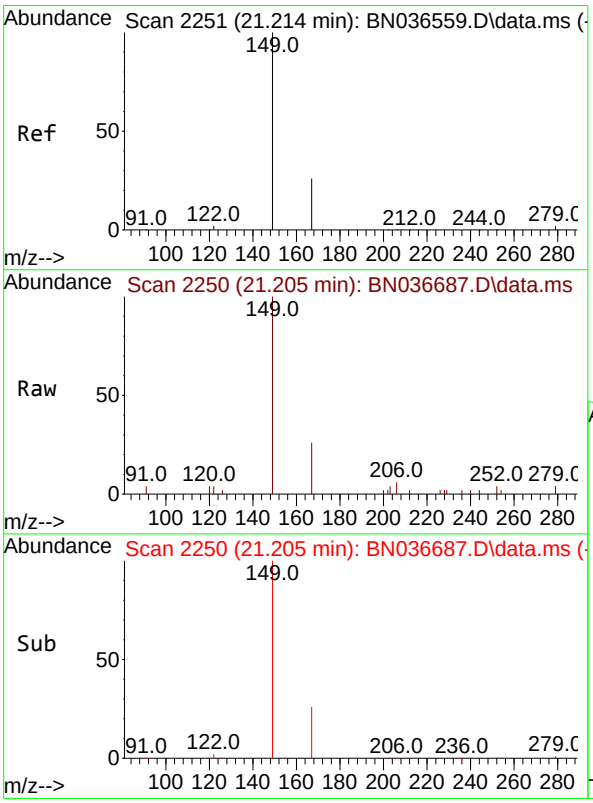
#33
Chrysene
Concen: 0.383 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 5693

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.3	37.9
229	21.0	15.8	23.8

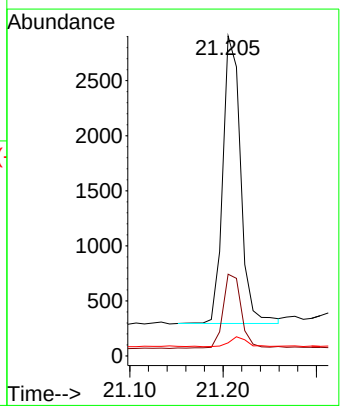


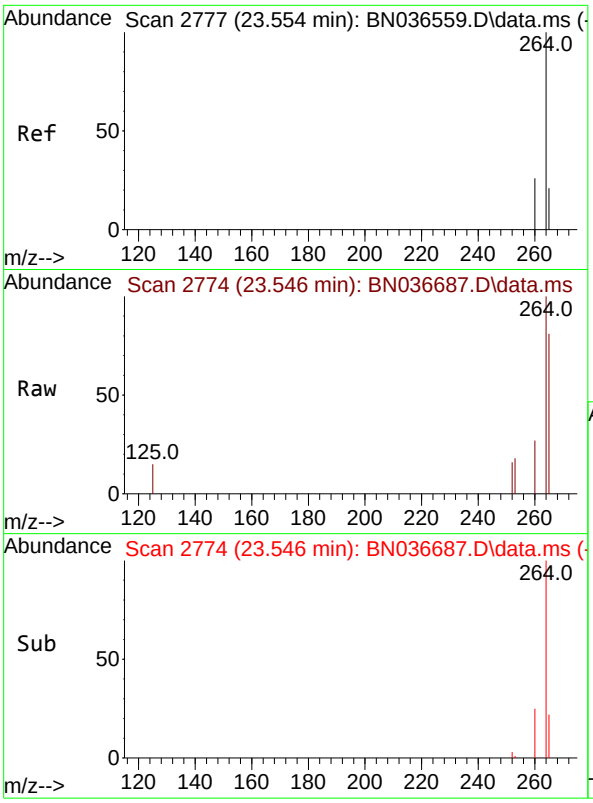


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.357 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:149 Resp: 3464

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.4	3.6	5.4#



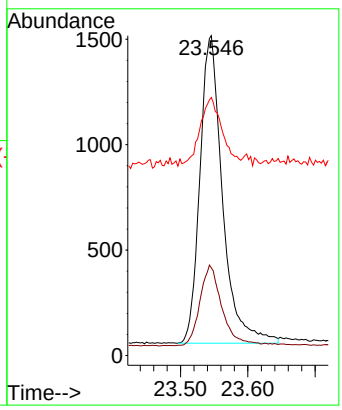


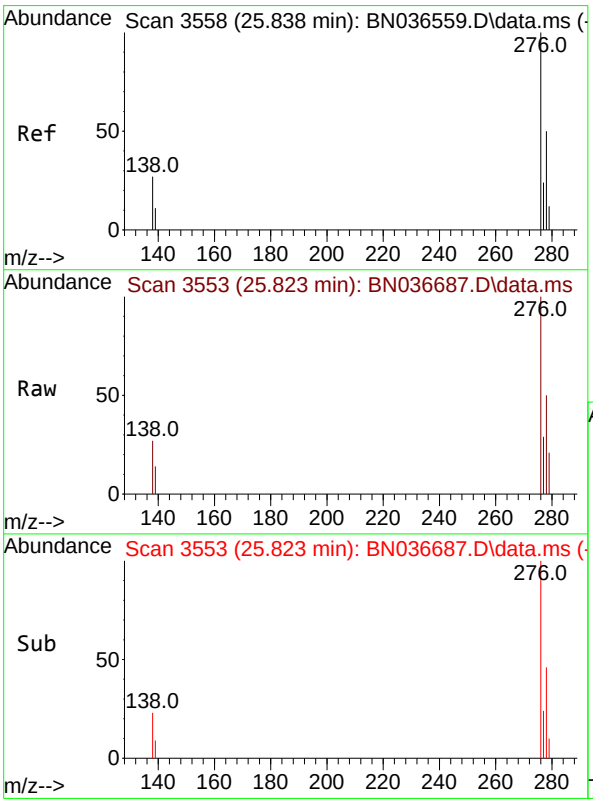
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 3408

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.6	33.8
265	80.7	88.1	132.1#

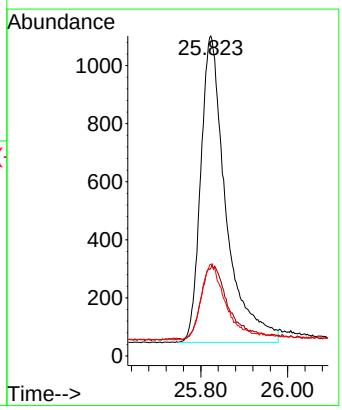


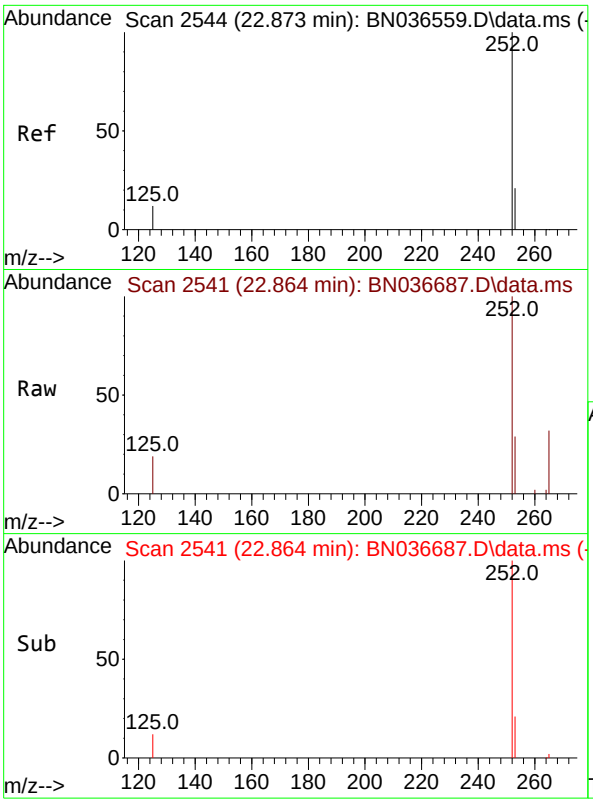


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.346 ng
RT: 25.823 min Scan# 3553
Delta R.T. -0.014 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:276 Resp: 4254

Ion	Ratio	Lower	Upper
276	100		
138	26.1	23.4	35.2
277	24.7	20.0	30.0



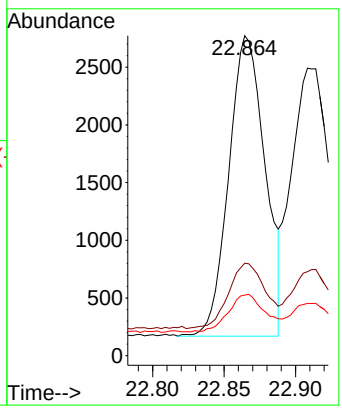


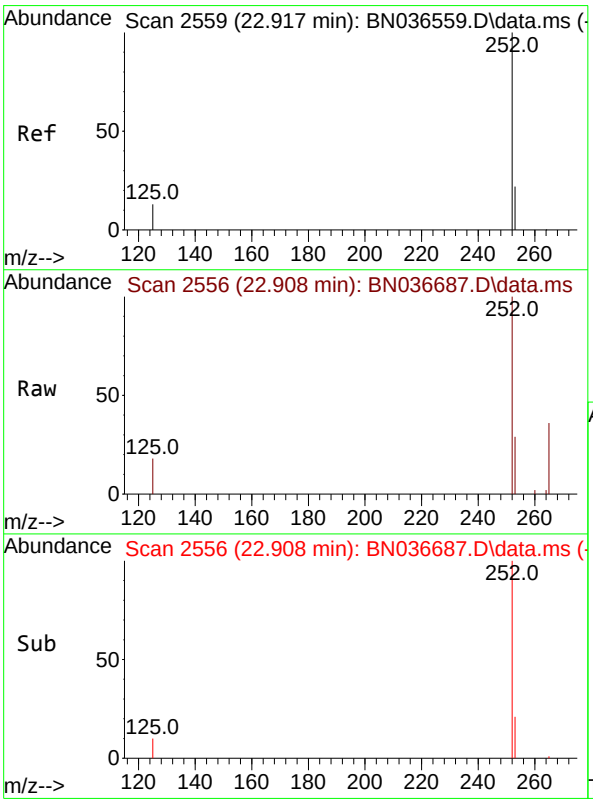
#37
Benzo(b)fluoranthene
Concen: 0.370 ng
RT: 22.864 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4593

Ion	Ratio	Lower	Upper
252	100		
253	28.9	23.9	35.9
125	19.0	17.4	26.2

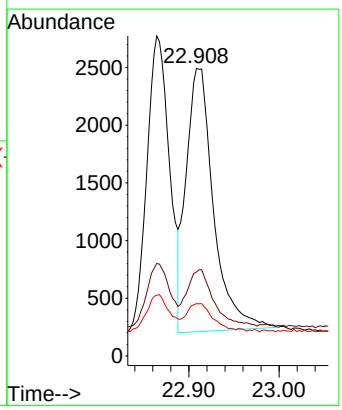


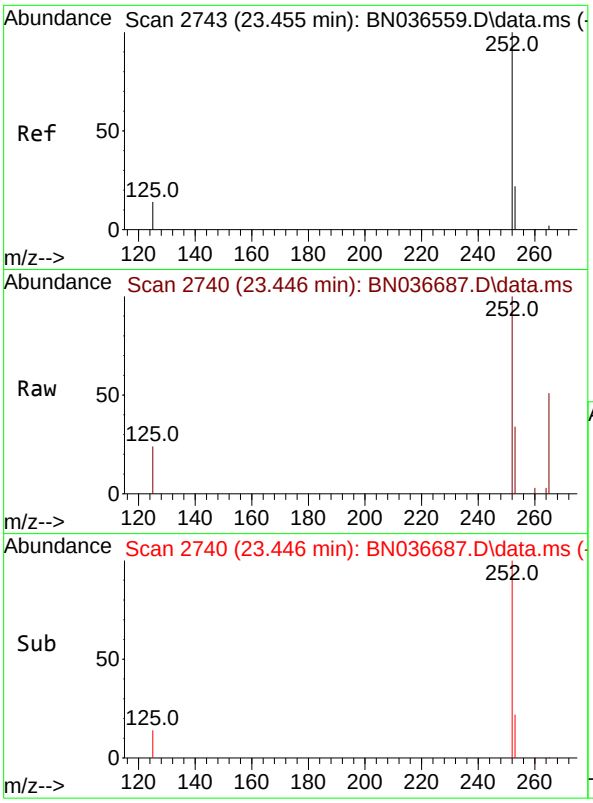


#38
Benzo(k)fluoranthene
Concen: 0.370 ng
RT: 22.908 min Scan# 2556
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:252 Resp: 4818

Ion	Ratio	Lower	Upper
252	100		
253	29.2	24.6	36.8
125	18.2	17.8	26.8



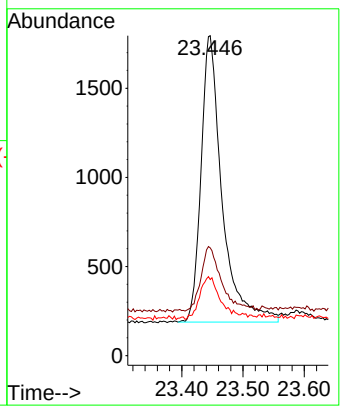


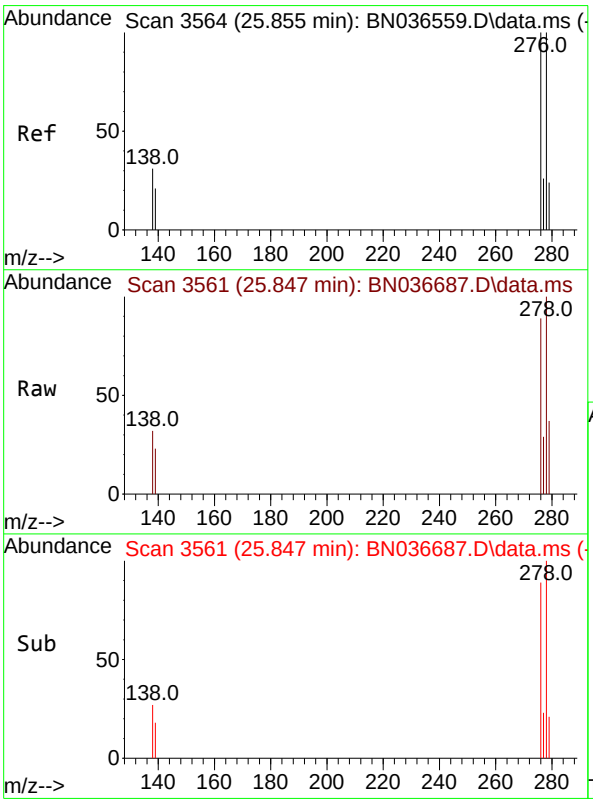
#39
Benzo(a)pyrene
Concen: 0.368 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 3841

Ion	Ratio	Lower	Upper
252	100		
253	33.7	27.8	41.8
125	23.8	22.7	34.1

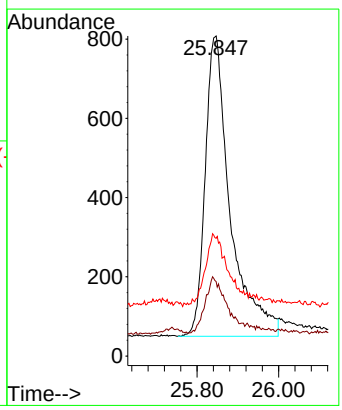


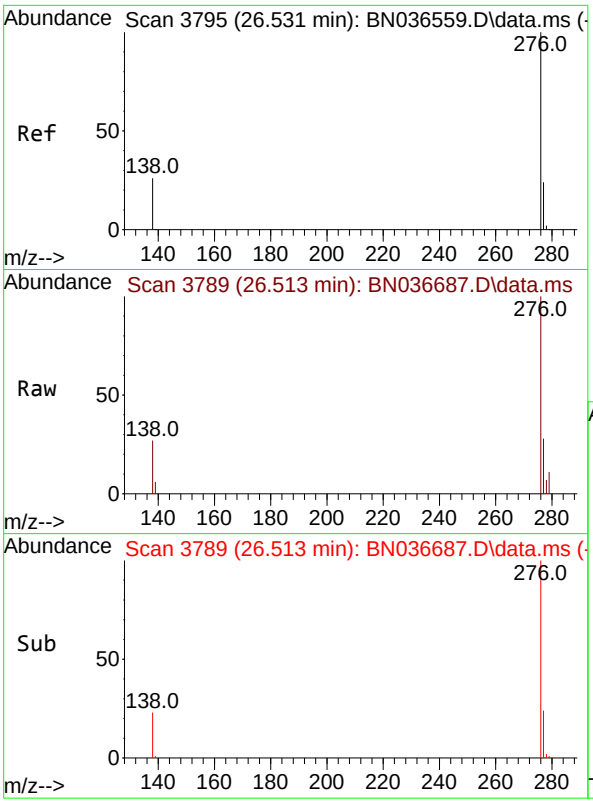


#40
Dibenzo(a,h)anthracene
Concen: 0.338 ng
RT: 25.847 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Tgt Ion:278 Resp: 3233

Ion	Ratio	Lower	Upper
278	100		
139	23.3	20.8	31.2
279	36.8	28.8	43.2



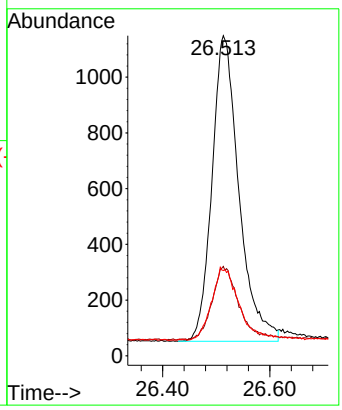


#41
Benzo(g,h,i)perylene
Concen: 0.349 ng
RT: 26.513 min Scan# 3
Delta R.T. -0.017 min
Lab File: BN036687.D
Acq: 18 Mar 2025 12:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 3822

Ion	Ratio	Lower	Upper
276	100		
277	27.9	22.2	33.4
138	26.6	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036687.D
Acq On : 18 Mar 2025 12:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 12:58:38 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	80	-0.01
2		1,4-Dioxane	0.444	0.434	2.3	70	0.00
3		n-Nitrosodimethylamine	0.898	0.916	-2.0	78	0.00
4	S	2-Fluorophenol	0.932	0.829	11.1	67	-0.01
5	S	Phenol-d6	1.152	1.015	11.9	72	-0.02
6		bis(2-Chloroethyl)ether	1.190	1.033	13.2	70	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	89	-0.01
8	S	Nitrobenzene-d5	0.435	0.372	14.5	80	-0.02
9		Naphthalene	1.177	1.056	10.3	78	-0.02
10		Hexachlorobutadiene	0.277	0.250	9.7	76	-0.01
11	SURR	2-Methylnaphthalene-d10	0.595	0.532	10.6	78	-0.02
12		2-Methylnaphthalene	0.749	0.685	8.5	80	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	89	-0.01
14	S	2,4,6-Tribromophenol	0.182	0.166	8.8	79	-0.01
15	S	2-Fluorobiphenyl	2.327	2.097	9.9	78	0.00
16		Acenaphthylene	1.888	1.715	9.2	79	-0.01
17		Acenaphthene	1.236	1.133	8.3	79	-0.02
18		Fluorene	1.672	1.550	7.3	78	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	92	-0.01
20		4,6-Dinitro-2-methylphenol	0.086	0.064	25.6#	76	0.00
21		4-Bromophenyl-phenylether	0.251	0.237	5.6	79	-0.01
22		Hexachlorobenzene	0.303	0.276	8.9	75	-0.01
23		Atrazine	0.201	0.187	7.0	80	0.00
24		Pentachlorophenol	0.138	0.115	16.7	77	-0.01
25		Phenanthrene	1.200	1.127	6.1	80	-0.01
26		Anthracene	1.083	0.998	7.8	80	-0.01
27	SURR	Fluoranthene-d10	1.025	0.964	6.0	79	0.00
28		Fluoranthene	1.348	1.279	5.1	81	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
30		Pyrene	1.956	1.806	7.7	81	0.00
31	S	Terphenyl-d14	0.958	0.858	10.4	80	0.00
32		Benzo(a)anthracene	1.391	1.209	13.1	80	0.00
33		Chrysene	1.520	1.454	4.3	86	0.00
34		Bis(2-ethylhexyl)phthalate	0.990	0.885	10.6	81	0.00
35	I	Perylene-d12	1.000	1.000	0.0	96	0.00
36		Indeno(1,2,3-cd)pyrene	1.444	1.248	13.6	78	-0.01
37		Benzo(b)fluoranthene	1.456	1.348	7.4	84	0.00
38		Benzo(k)fluoranthene	1.527	1.414	7.4	84	0.00
39	C	Benzo(a)pyrene	1.226	1.127	8.1	83	0.00
40		Dibenzo(a,h)anthracene	1.124	0.949	15.6	79	0.00
41		Benzo(g,h,i)perylene	1.286	1.121	12.8	78	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036687.D
Acq On : 18 Mar 2025 12:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 18 12:58:38 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	80	-0.01
2		1,4-Dioxane	0.400	0.391	2.3	70	0.00
3		n-Nitrosodimethylamine	0.400	0.408	-2.0	78	0.00
4	S	2-Fluorophenol	0.400	0.356	11.0	67	-0.01
5	S	Phenol-d6	0.400	0.352	12.0	72	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.347	13.3	70	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	89	-0.01
8	S	Nitrobenzene-d5	0.400	0.342	14.5	80	-0.02
9		Naphthalene	0.400	0.359	10.3	78	-0.02
10		Hexachlorobutadiene	0.400	0.361	9.8	76	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	78	-0.02
12		2-Methylnaphthalene	0.400	0.366	8.5	80	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	89	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.367	8.3	79	-0.01
15	S	2-Fluorobiphenyl	0.400	0.361	9.8	78	0.00
16		Acenaphthylene	0.400	0.363	9.3	79	-0.01
17		Acenaphthene	0.400	0.367	8.3	79	-0.02
18		Fluorene	0.400	0.371	7.3	78	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	92	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.397	0.8	76	0.00
21		4-Bromophenyl-phenylether	0.400	0.379	5.3	79	-0.01
22		Hexachlorobenzene	0.400	0.365	8.8	75	-0.01
23		Atrazine	0.400	0.372	7.0	80	0.00
24		Pentachlorophenol	0.400	0.334	16.5	77	-0.01
25		Phenanthrene	0.400	0.376	6.0	80	-0.01
26		Anthracene	0.400	0.369	7.8	80	-0.01
27	SURR	Fluoranthene-d10	0.400	0.376	6.0	79	0.00
28		Fluoranthene	0.400	0.380	5.0	81	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	95	0.00
30		Pyrene	0.400	0.369	7.8	81	0.00
31	S	Terphenyl-d14	0.400	0.358	10.5	80	0.00
32		Benzo(a)anthracene	0.400	0.348	13.0	80	0.00
33		Chrysene	0.400	0.383	4.3	86	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.357	10.8	81	0.00
35	I	Perylene-d12	0.400	0.400	0.0	96	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.346	13.5	78	-0.01
37		Benzo(b)fluoranthene	0.400	0.370	7.5	84	0.00
38		Benzo(k)fluoranthene	0.400	0.370	7.5	84	0.00
39	C	Benzo(a)pyrene	0.400	0.368	8.0	83	0.00
40		Dibenzo(a,h)anthracene	0.400	0.338	15.5	79	0.00
41		Benzo(g,h,i)perylene	0.400	0.349	12.8	78	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

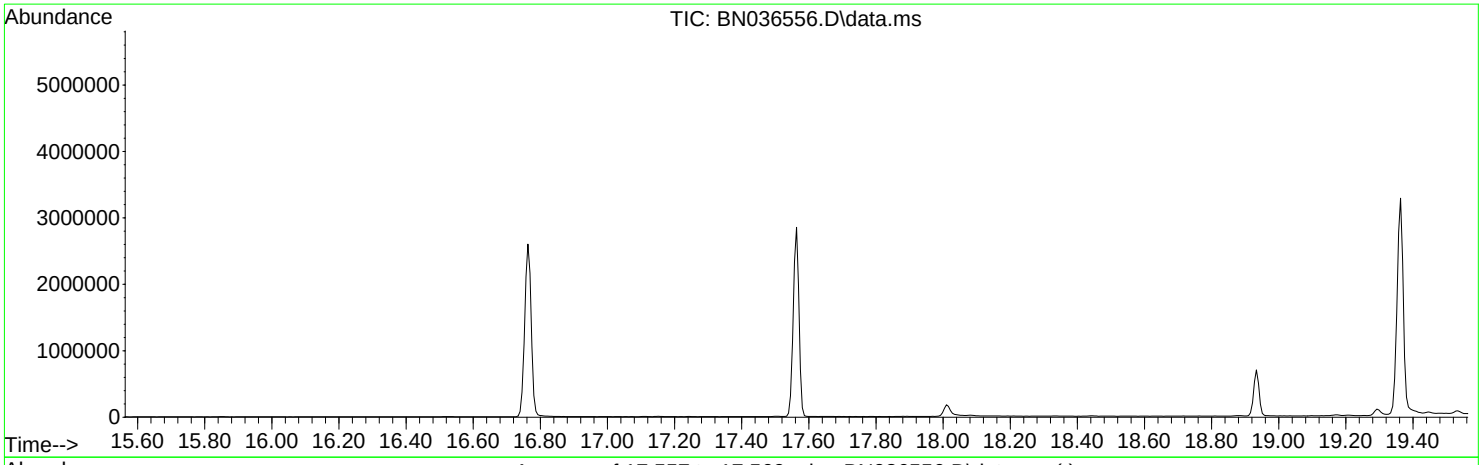
QC SAMPLE DATA

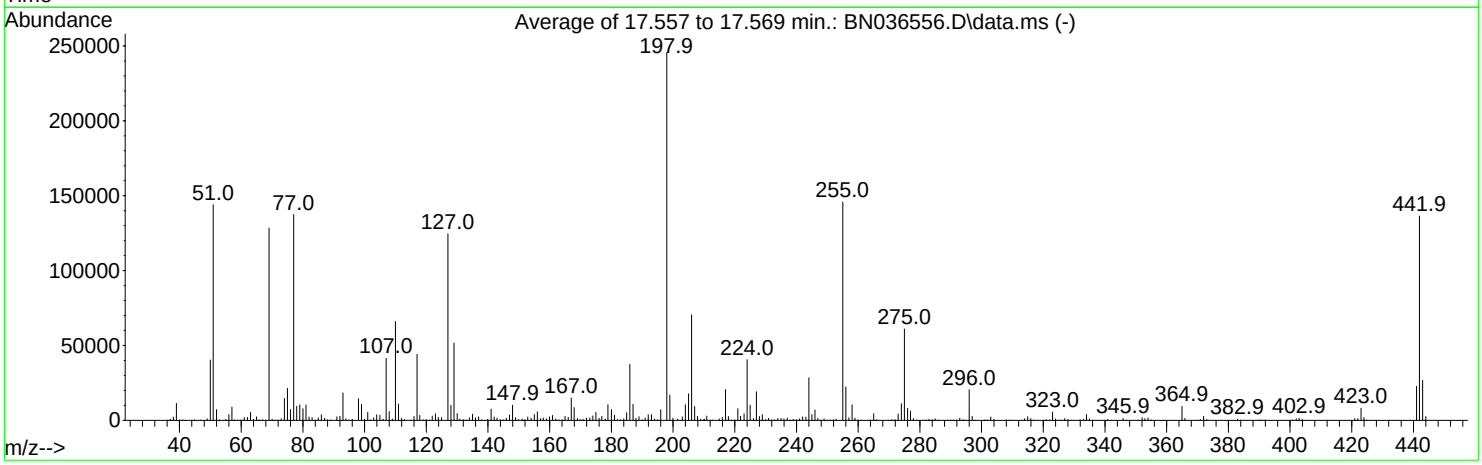
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

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





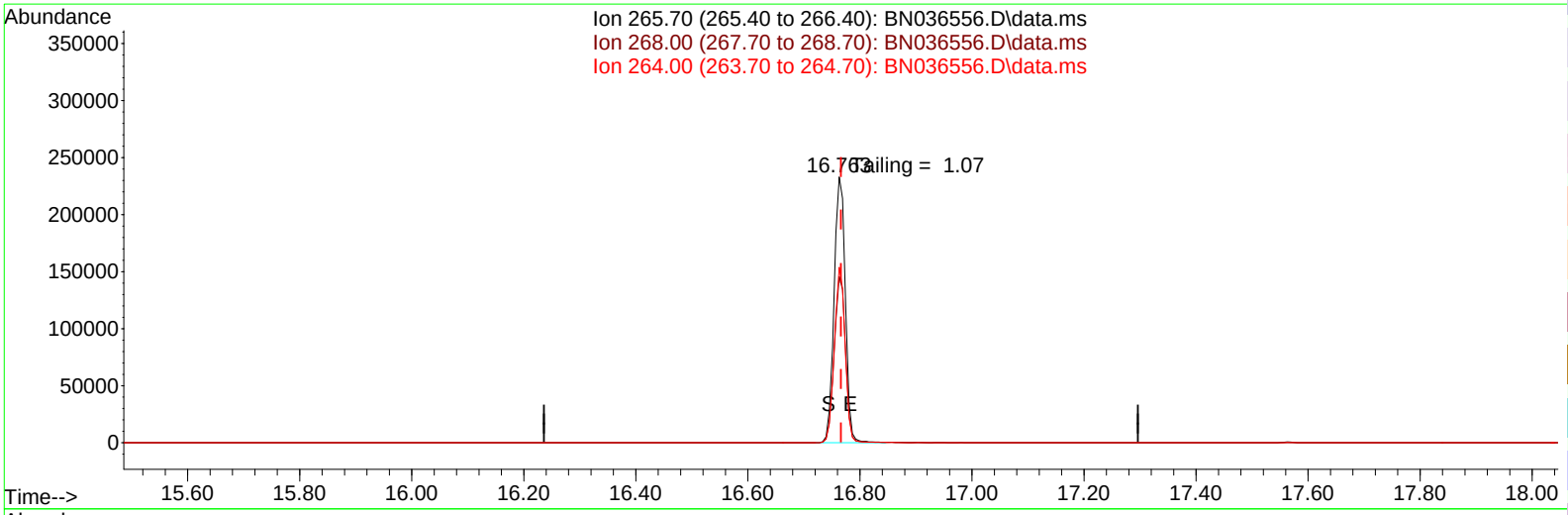
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

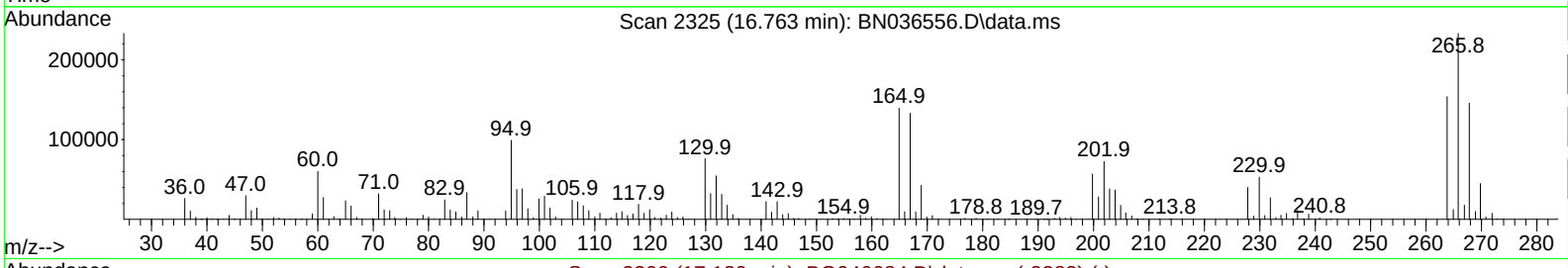
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	6.9	16887	PASS
275	198	10	60	24.8	60997	PASS
365	198	1	100	3.8	9349	PASS
441	198	0.01	100	9.3	22761	PASS
442	442	50	100	100.0	136488	PASS
443	442	15	24	19.6	26765	PASS

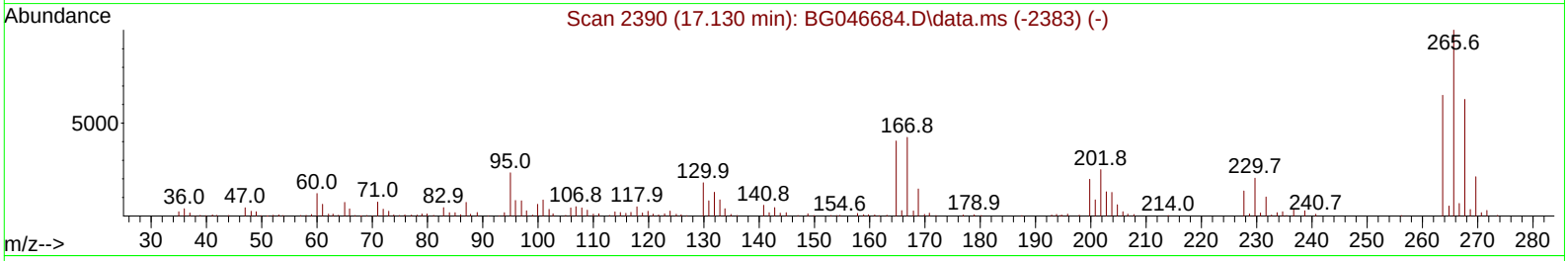
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

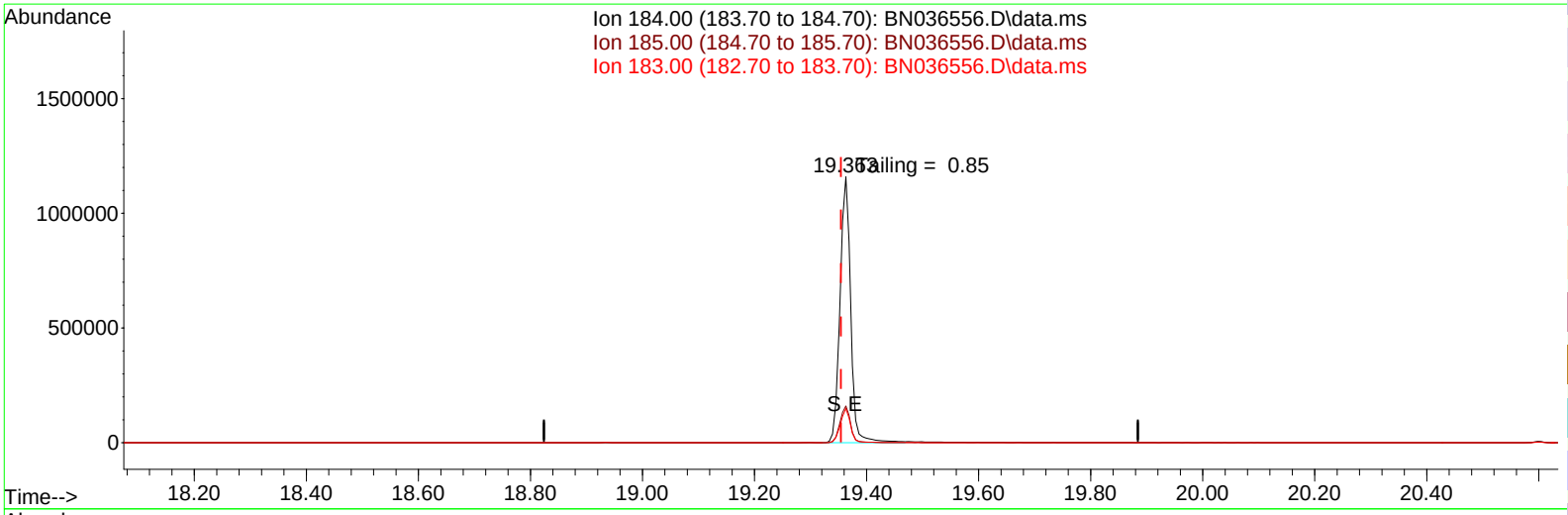
response 323613

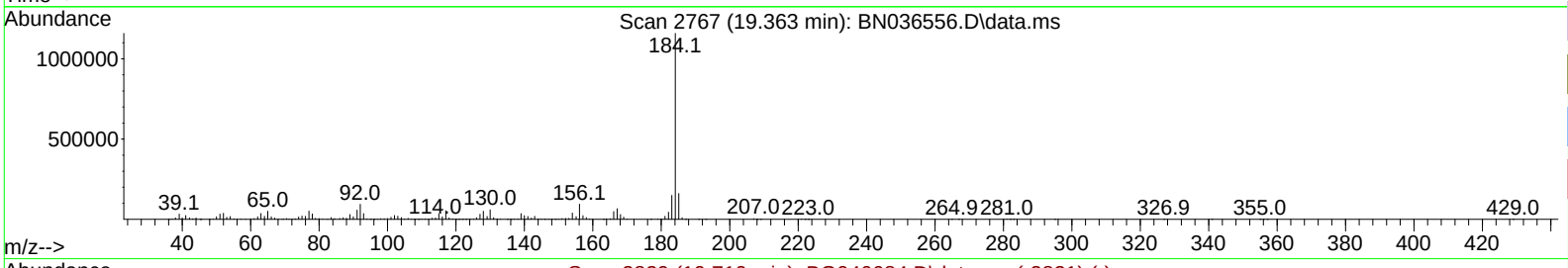
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

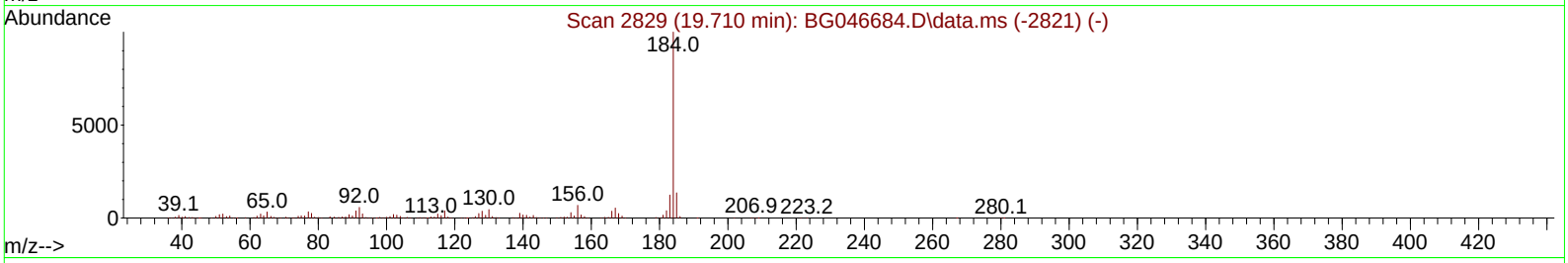
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

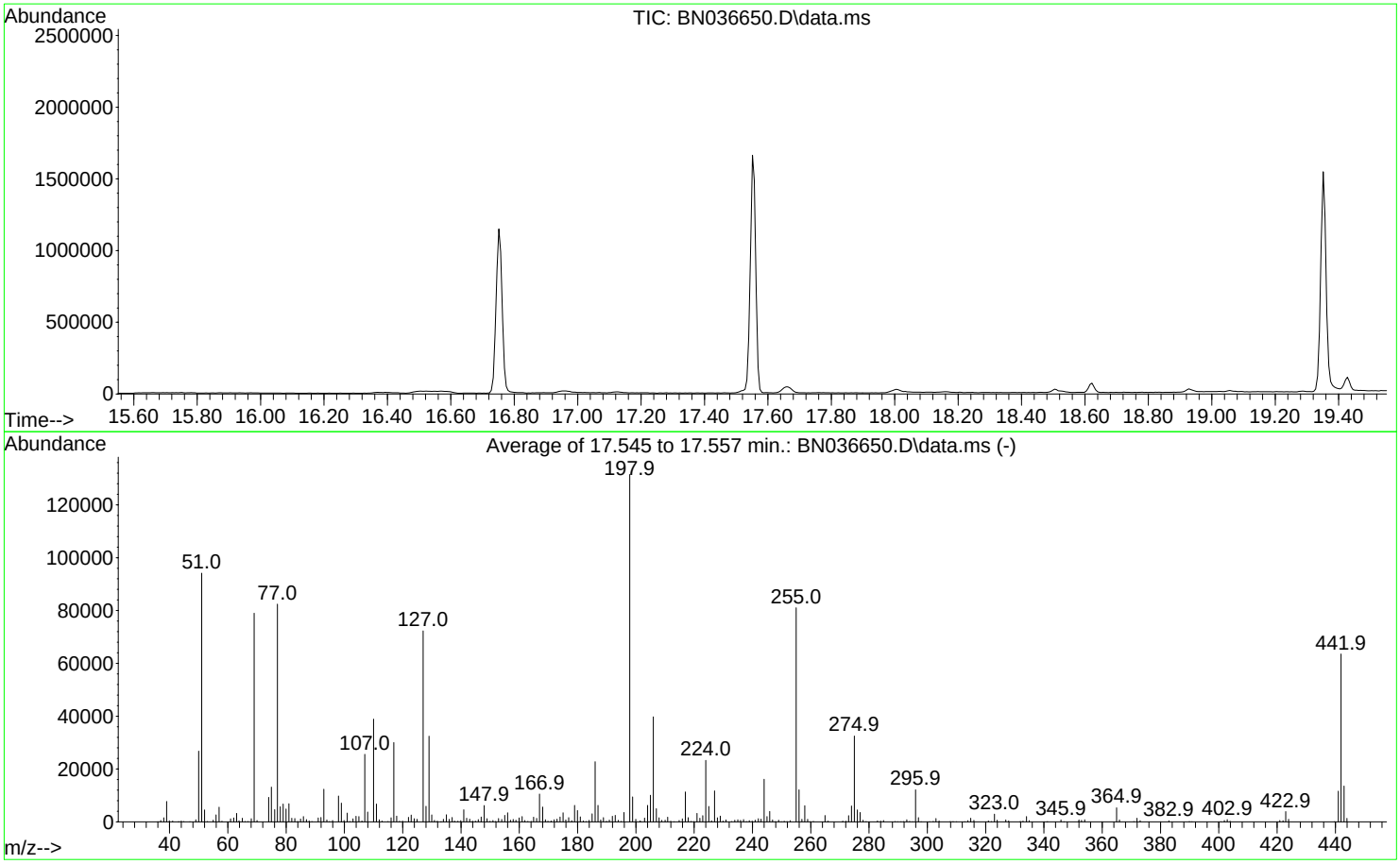
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	BN036556.D
Compound Name	**Response**	**Retention Time**
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12126	1122532	1.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036650.D
Acq On : 17 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



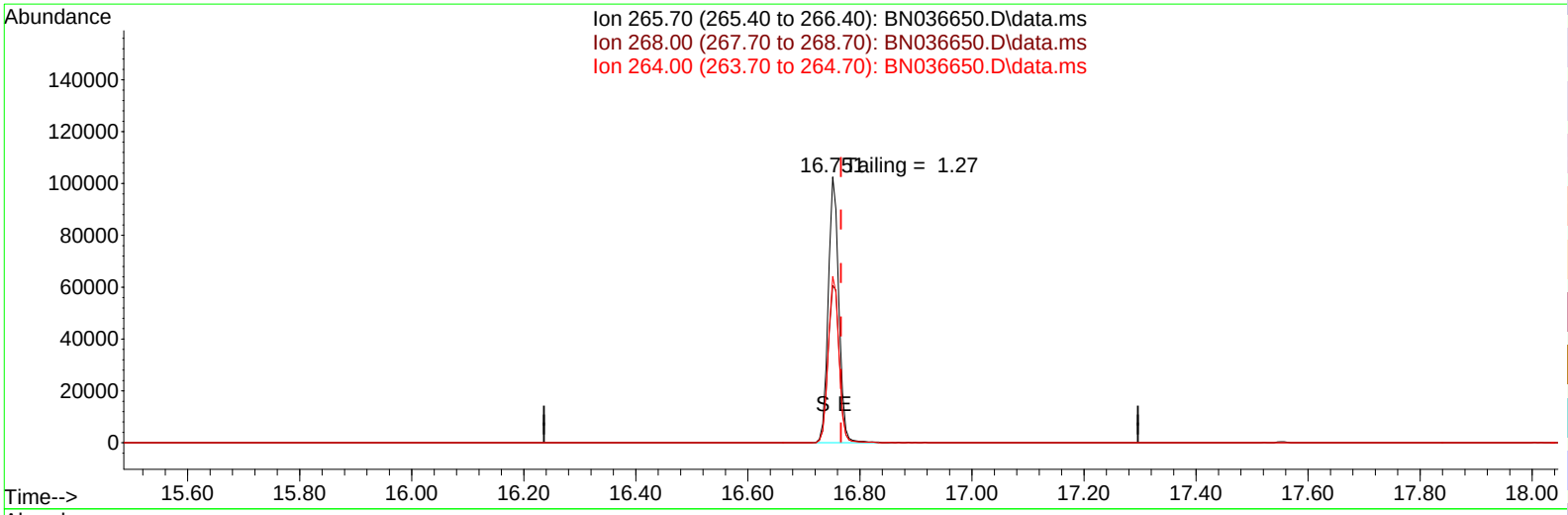
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2452

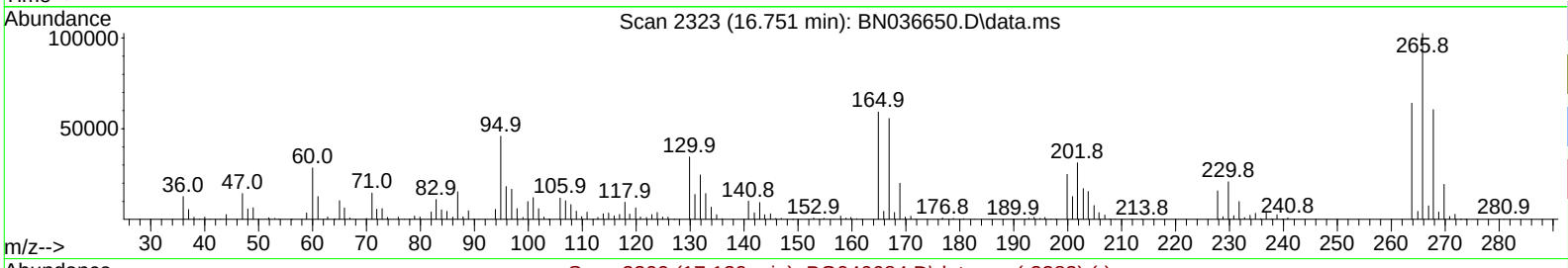
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	71.6	94163	PASS
68	69	0.00	2	1.5	1192	PASS
69	198	0.00	100	60.1	78976	PASS
70	69	0.00	2	0.6	490	PASS
127	198	10	80	55.0	72275	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	131491	PASS
199	198	5	9	7.2	9462	PASS
275	198	10	60	24.7	32496	PASS
365	198	1	100	4.1	5350	PASS
441	198	0.01	100	8.8	11603	PASS
442	442	50	100	100.0	63571	PASS
443	442	15	24	21.3	13557	PASS

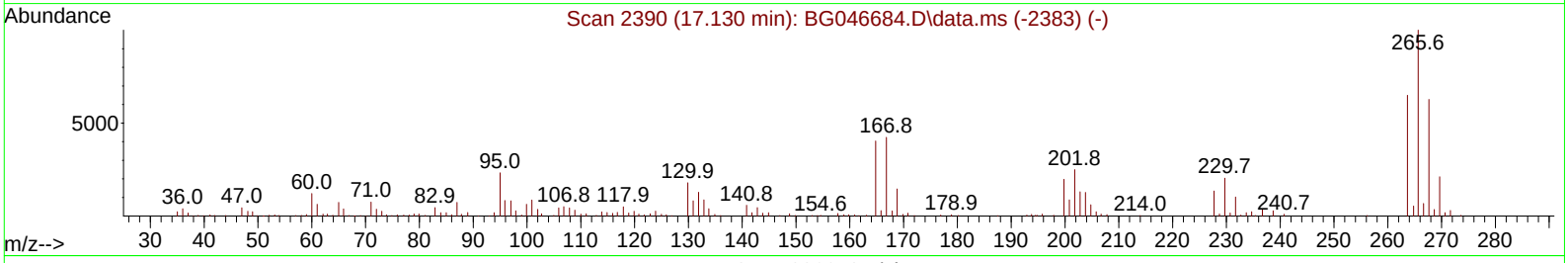
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036650.D
Acq On : 17 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 17 18:55:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 17 01:20:13 2025
Response via : Initial Calibration







TIC: BN036650.D\data.ms

(70) Pentachlorophenol (C)

16.751min (-0.015) 17170.72 ng

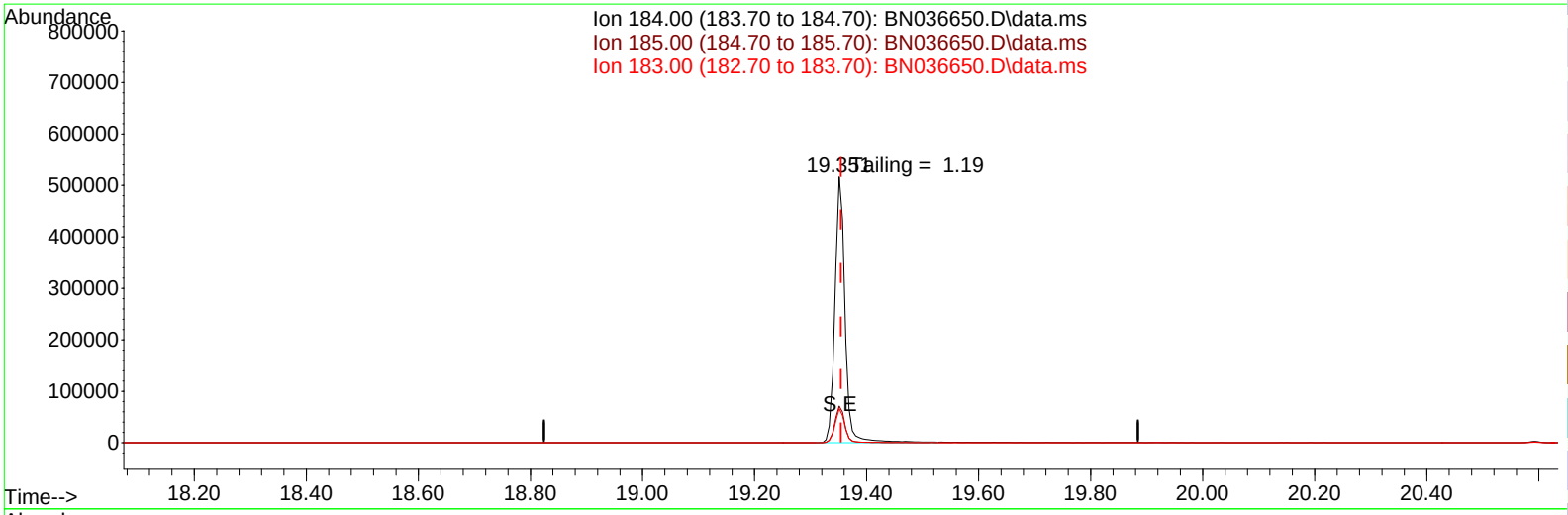
response 134482

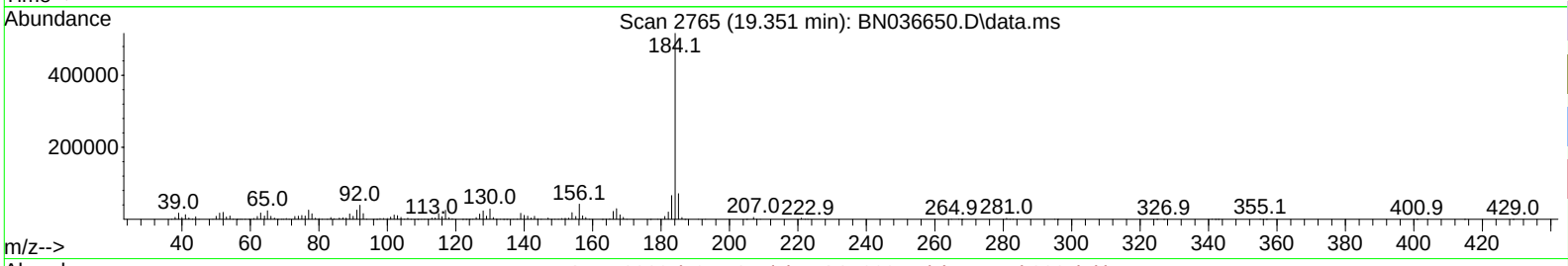
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.07
264.00	61.60	62.53
0.00	0.00	0.00

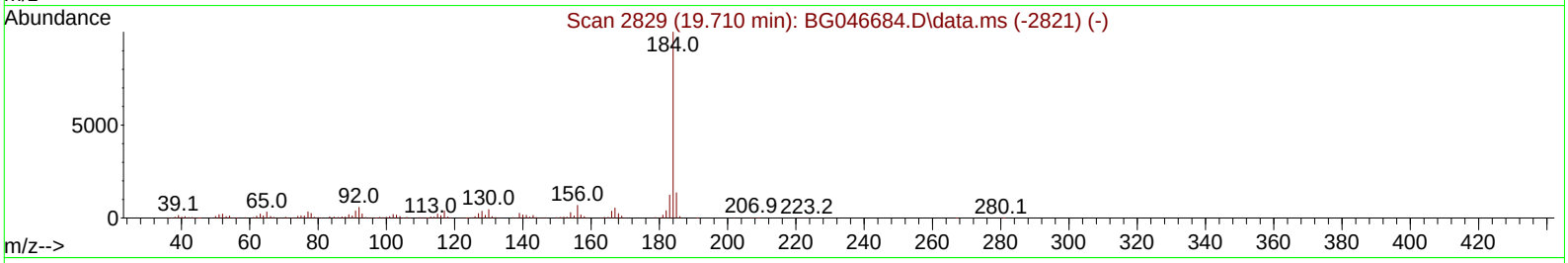
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036650.D
Acq On : 17 Mar 2025 09:10
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 17 18:55:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 17 01:20:13 2025
Response via : Initial Calibration







TIC: BN036650.D\data.ms

(77) Benzidine

19.351min (-0.003) 0.00 ng

response 648586

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.79
183.00	13.20	12.82
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

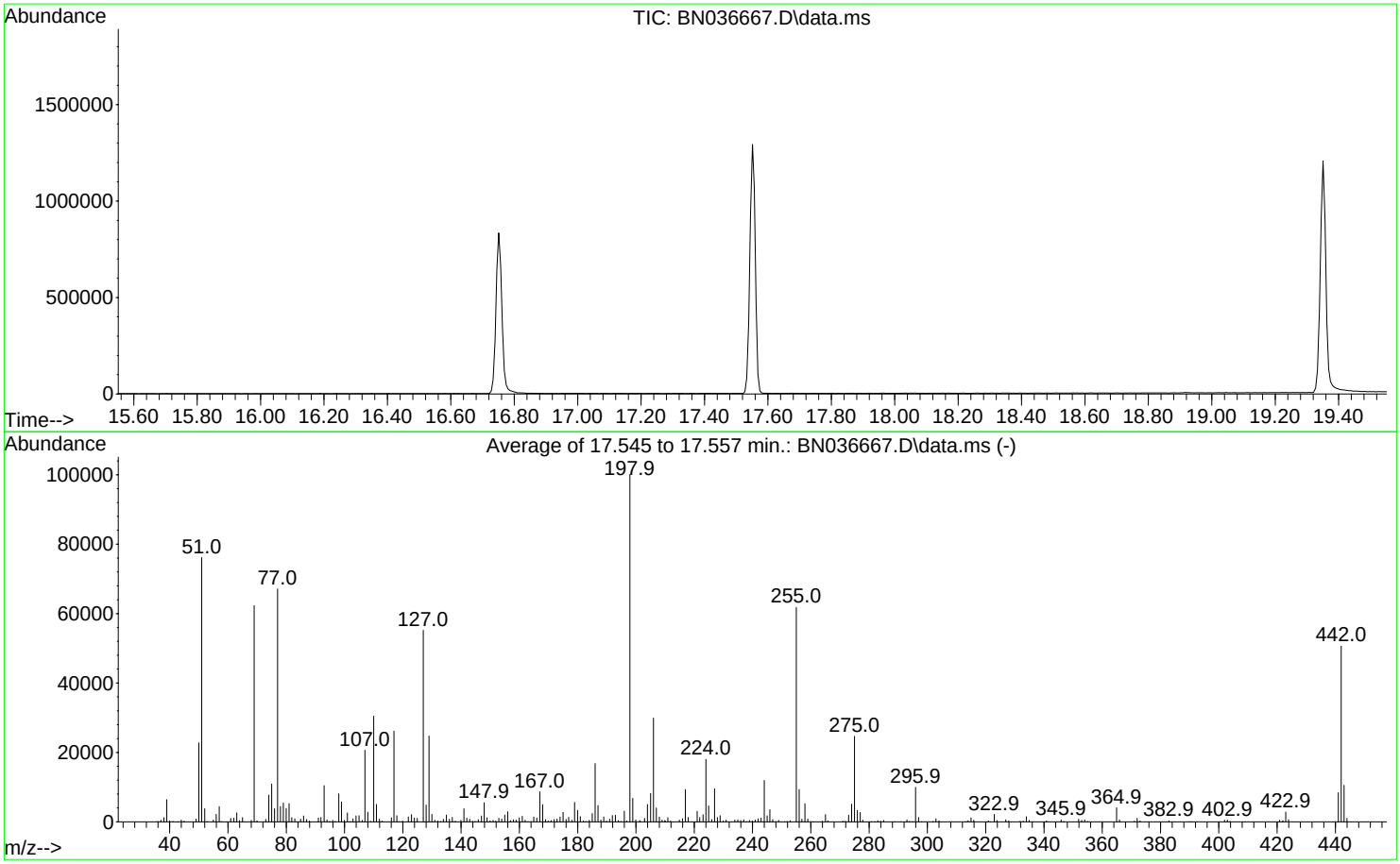
Date	Instrument Name	DFTPP Data File
3/17/2025	BNA_N	BN036650.D
Compound Name	**Response**	**Retention Time**
DDT	427402	20.592
DDD	7023	20.151
DDE	629	19.645
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7652	435054	1.76

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036667.D
Acq On : 17 Mar 2025 20:23
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



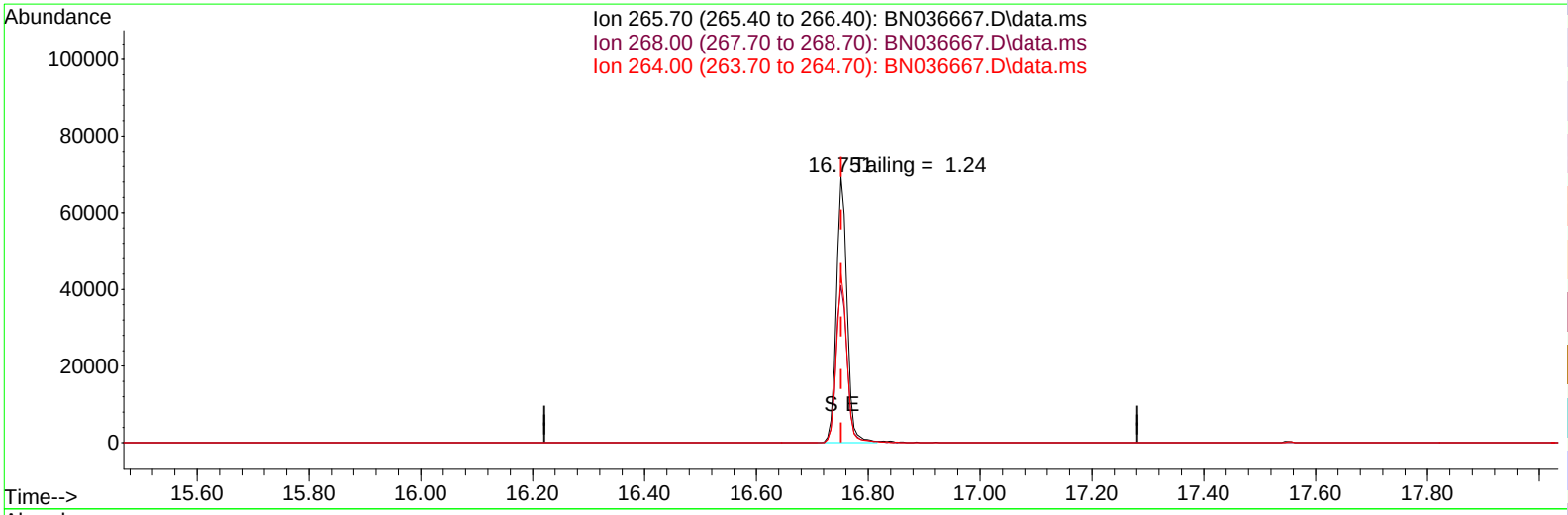
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2452

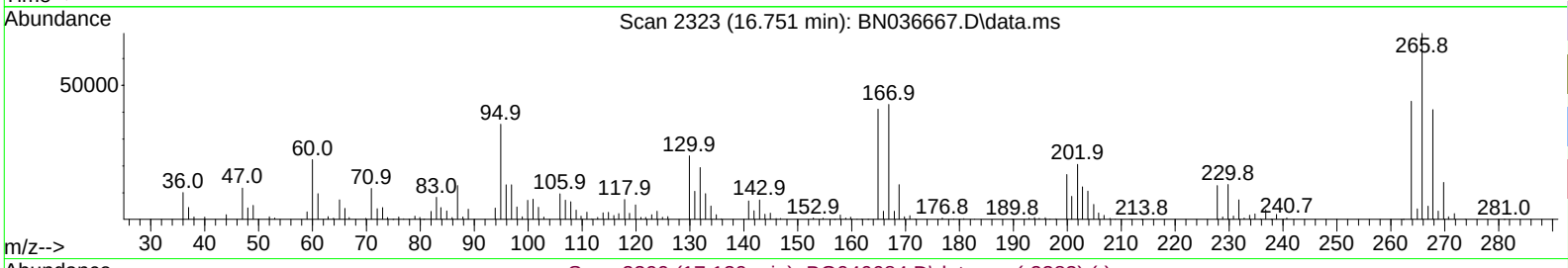
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	76.1	76120	PASS
68	69	0.00	2	0.7	429	PASS
69	198	0.00	100	62.3	62344	PASS
70	69	0.00	2	0.3	205	PASS
127	198	10	80	55.2	55208	PASS
197	198	0.00	2	0.2	248	PASS
198	198	100	100	100.0	100083	PASS
199	198	5	9	6.8	6805	PASS
275	198	10	60	24.6	24659	PASS
365	198	1	100	4.1	4079	PASS
441	198	0.01	100	8.4	8421	PASS
442	442	50	100	100.0	50624	PASS
443	442	15	24	20.8	10520	PASS

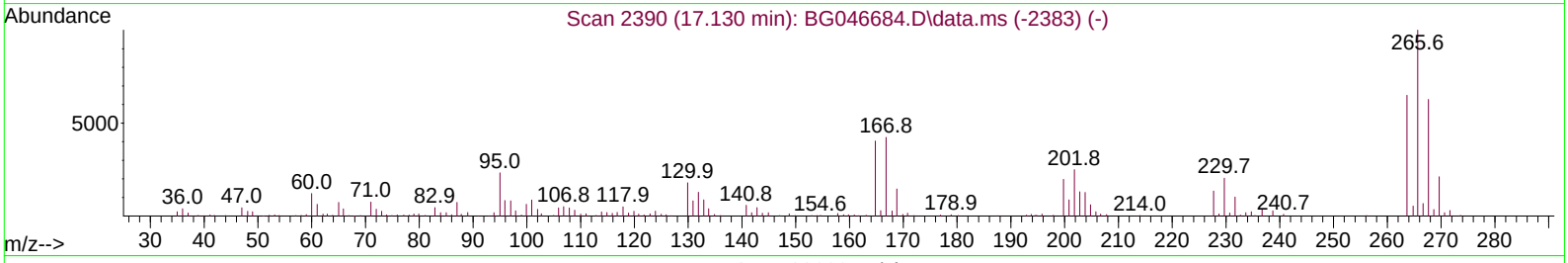
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036667.D
Acq On : 17 Mar 2025 20:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 18 01:27:33 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: BN036667.D\data.ms

(70) Pentachlorophenol (C)

16.751min (0.000) 16844.36 ng

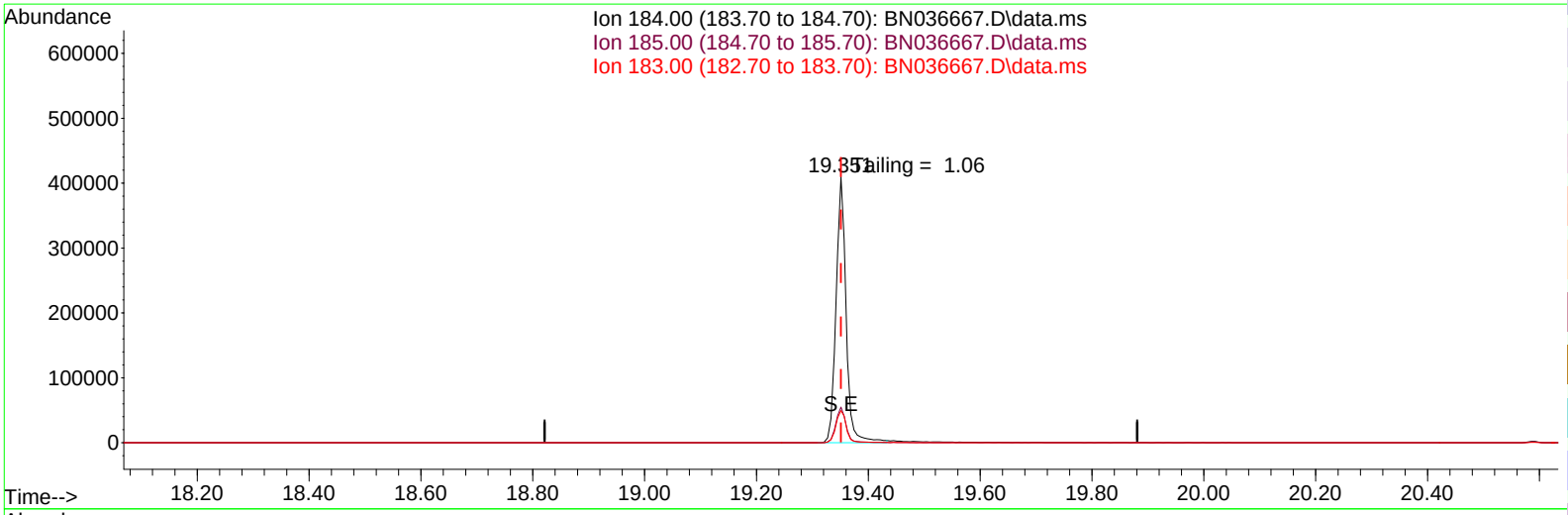
response 92401

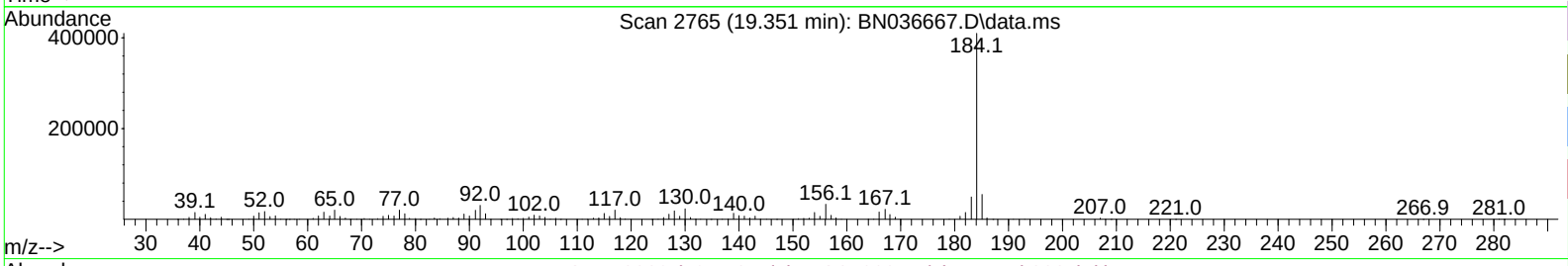
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.06
264.00	61.60	63.56
0.00	0.00	0.00

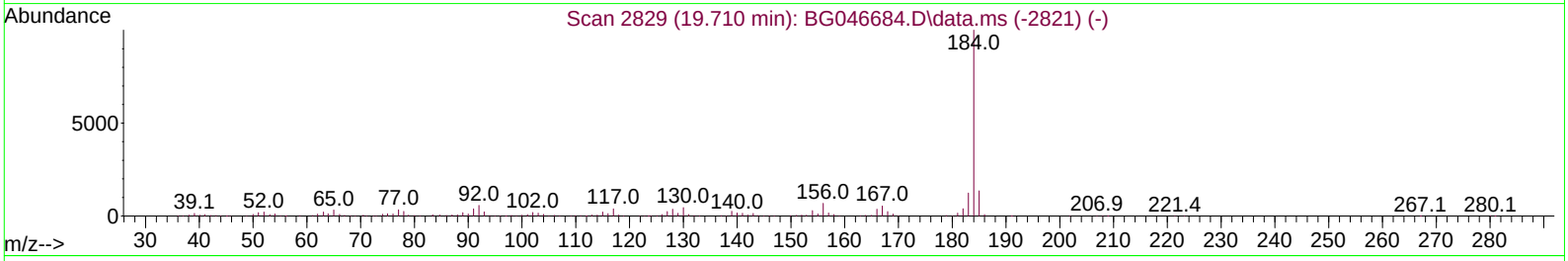
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036667.D
Acq On : 17 Mar 2025 20:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 18 01:27:33 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: BN036667.D\data.ms

(77) Benzidine

19.351min (0.000) 0.00 ng

response 518588

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.44
183.00	13.20	12.05
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

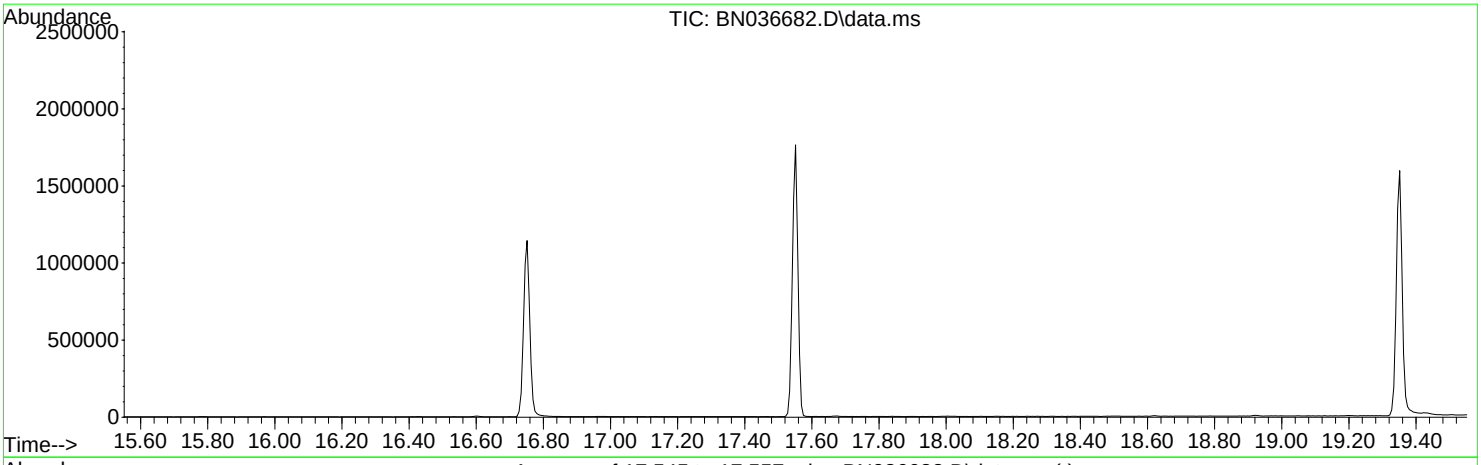
Date	Instrument Name	DFTPP Data File
3/17/2025	BNA_N	BN036667.D
Compound Name	**Response**	**Retention Time**
DDT	323246	20.592
DDD	4464	20.151
DDE	248	19.645
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
4712	327958	1.44

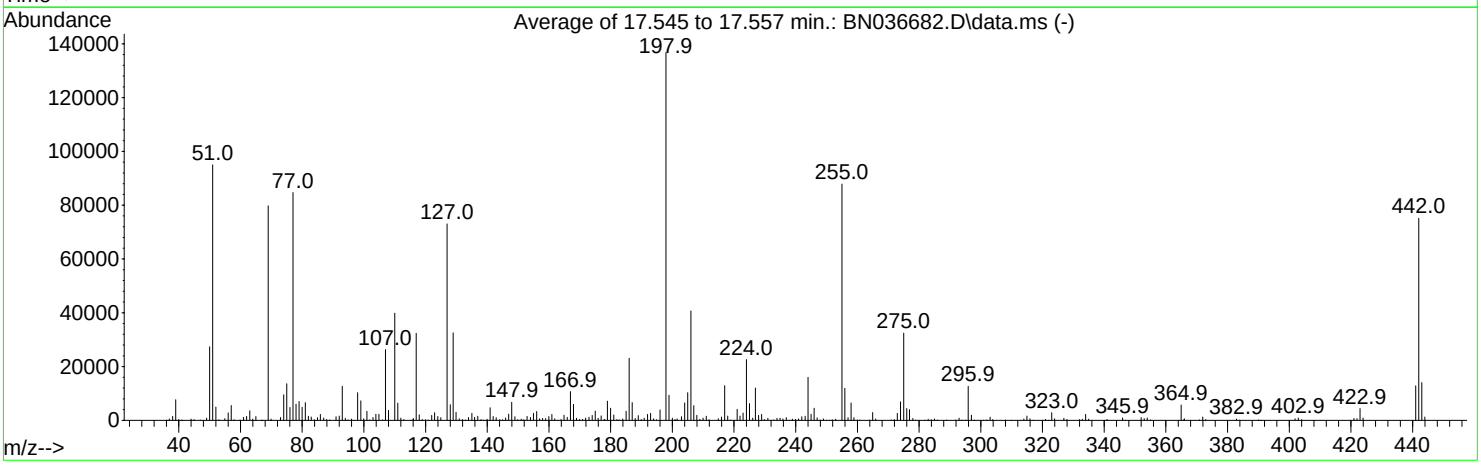
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036682.D
Acq On : 18 Mar 2025 08:42
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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





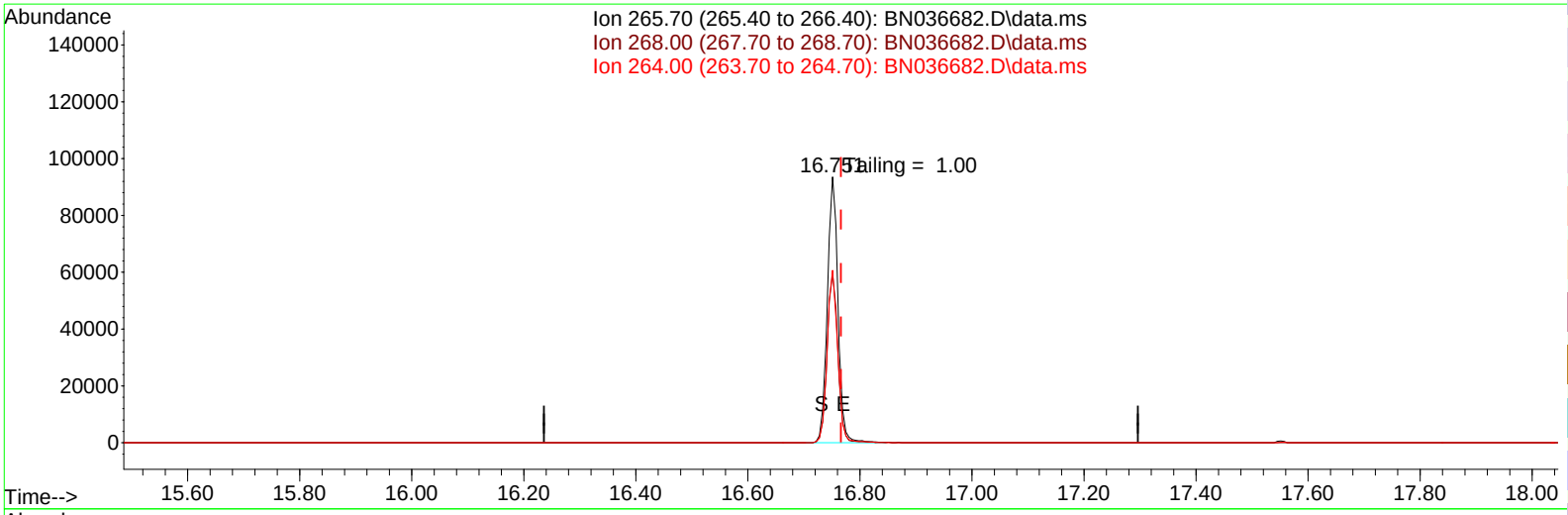
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2451

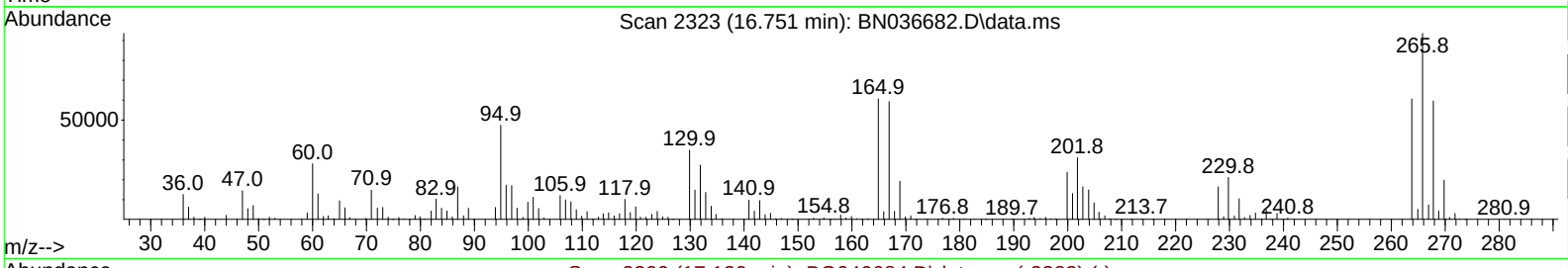
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	69.5	95037	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	58.3	79763	PASS
70	69	0.00	2	0.6	478	PASS
127	198	10	80	53.4	73040	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	136773	PASS
199	198	5	9	6.8	9344	PASS
275	198	10	60	23.7	32411	PASS
365	198	1	100	4.2	5709	PASS
441	198	0.01	100	9.4	12840	PASS
442	442	50	100	100.0	75131	PASS
443	442	15	24	18.7	14045	PASS

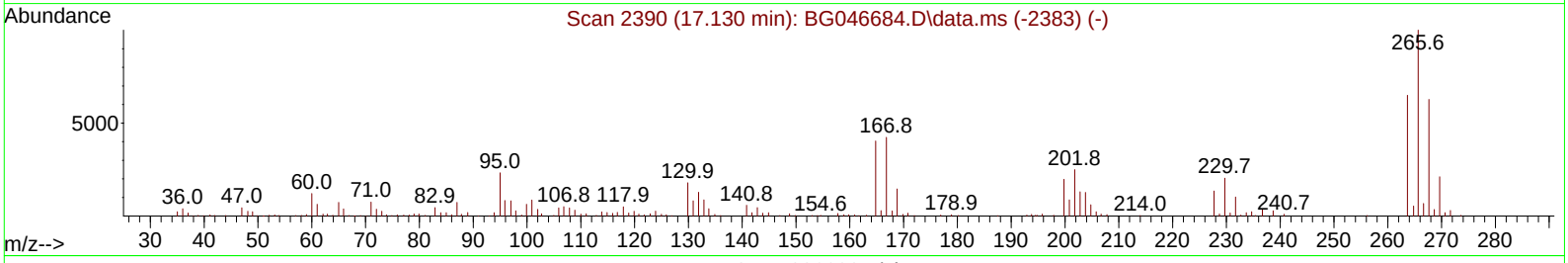
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036682.D
Acq On : 18 Mar 2025 08:42
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 18 13:19:40 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: BN036682.D\data.ms

(70) Pentachlorophenol (C)

16.751min (-0.015) 15755.93 ng

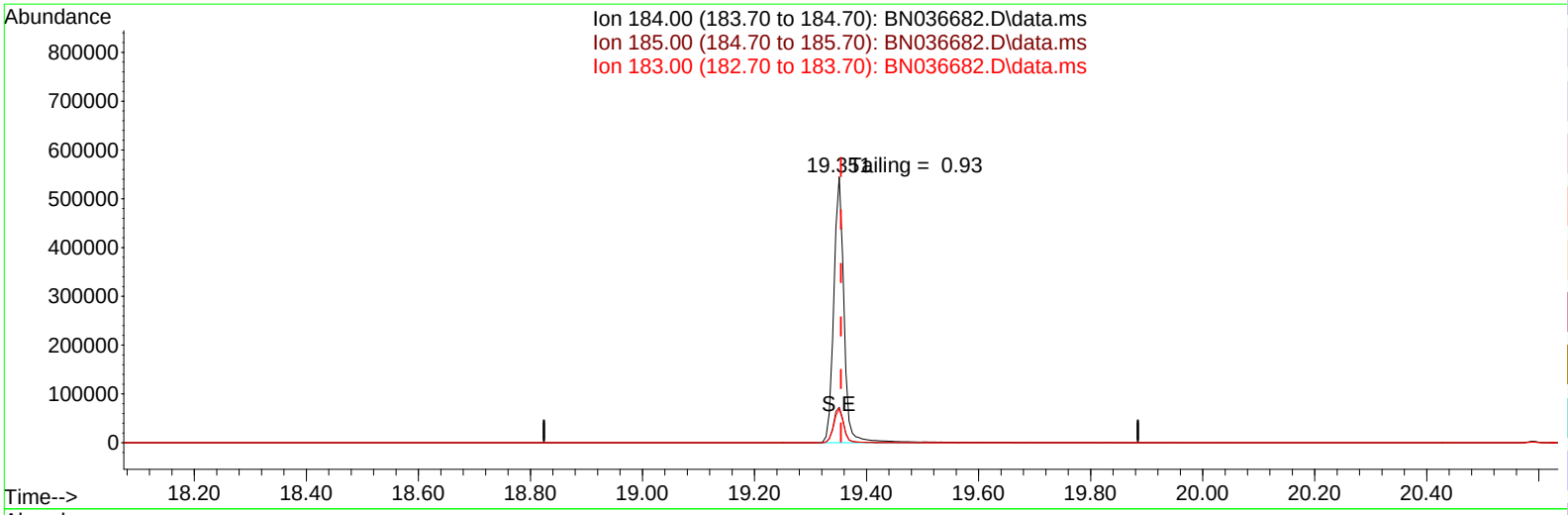
response 123154

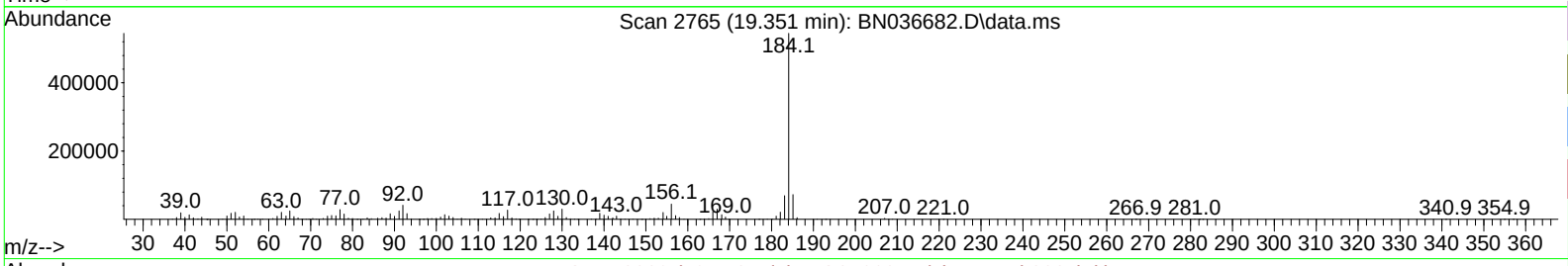
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.71
264.00	61.60	64.87
0.00	0.00	0.00

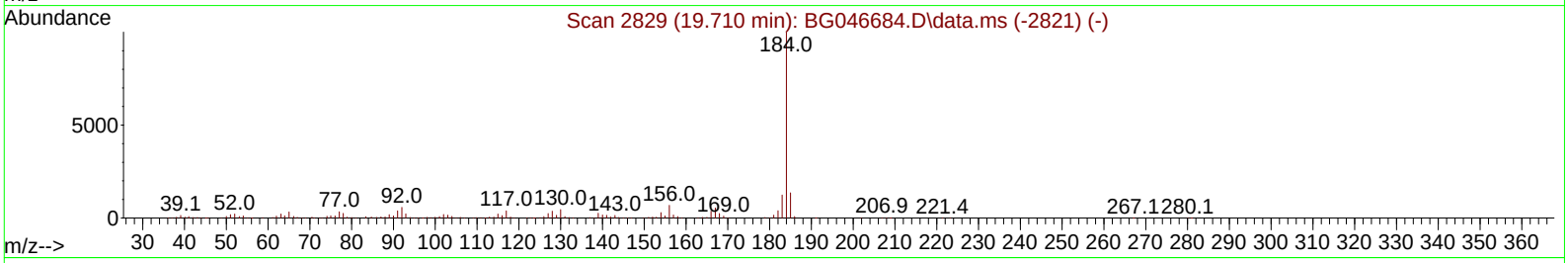
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036682.D
Acq On : 18 Mar 2025 08:42
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 18 13:19:40 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: BN036682.D\data.ms

(77) Benzidine

19.351min (-0.003) 0.00 ng

response 688778

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.35
183.00	13.20	12.70
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/18/2025	BNA_N	BN036682.D
Compound Name	**Response**	**Retention Time**
DDT	424064	20.592
DDD	5924	20.151
DDE	402	19.639
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6326	430390	1.47

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:	PB167159BL	SDG No.:	Q1582
Lab Sample ID:	PB167159BL	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
BN036684.D	1	03/17/25 08:48	03/18/25 09:57	PB167159

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		86%	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	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.717				
1146-65-2	Naphthalene-d8	3700	10.52				
15067-26-2	Acenaphthene-d10	2060	14.366				
1517-22-2	Phenanthrene-d10	3780	17.124				
1719-03-5	Chrysene-d12	2640	21.304				
1520-96-3	Perylene-d12	2440	23.549				

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\BN031825\
Data File : BN036684.D
Acq On : 18 Mar 2025 09:57
Operator : RC/JU
Sample : PB167159BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Quant Time: Mar 18 10:42:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

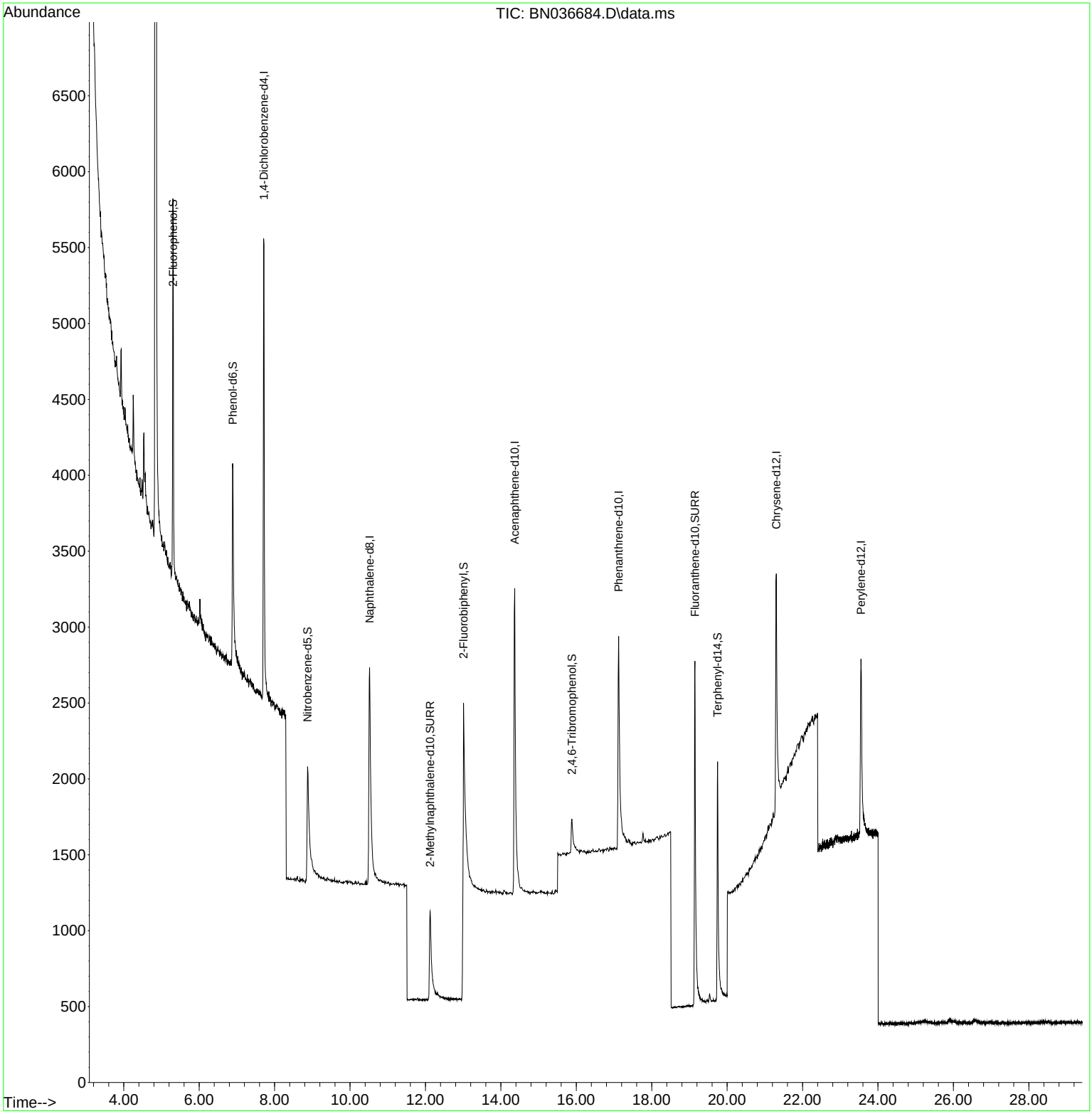
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1698	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	3698	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2056	0.400	ng	0.00
19) Phenanthrene-d10	17.124	188	3776	0.400	ng	# 0.01
29) Chrysene-d12	21.304	240	2642	0.400	ng	0.00
35) Perylene-d12	23.549	264	2442	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1752	0.443	ng	0.00
5) Phenol-d6	6.894	99	1764	0.361	ng	0.00
8) Nitrobenzene-d5	8.875	82	1459	0.363	ng	0.00
11) 2-Methylnaphthalene-d10	12.126	152	1897	0.345	ng	0.02
14) 2,4,6-Tribromophenol	15.883	330	280	0.300	ng	0.03
15) 2-Fluorobiphenyl	13.009	172	3010	0.252	ng	0.02
27) Fluoranthene-d10	19.146	212	4054	0.419	ng	0.00
31) Terphenyl-d14	19.745	244	2710	0.428	ng	0.00
Target Compounds						Qvalue

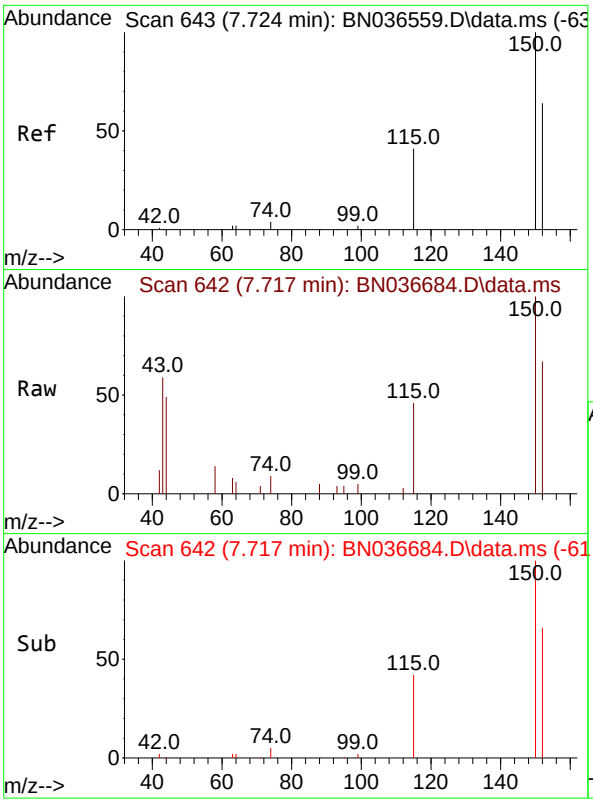
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031825\
Data File : BN036684.D
Acq On : 18 Mar 2025 09:57
Operator : RC/JU
Sample : PB167159BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Quant Time: Mar 18 10:42:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



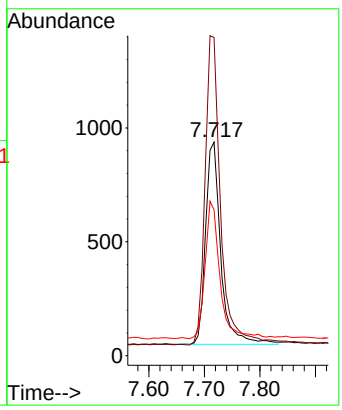


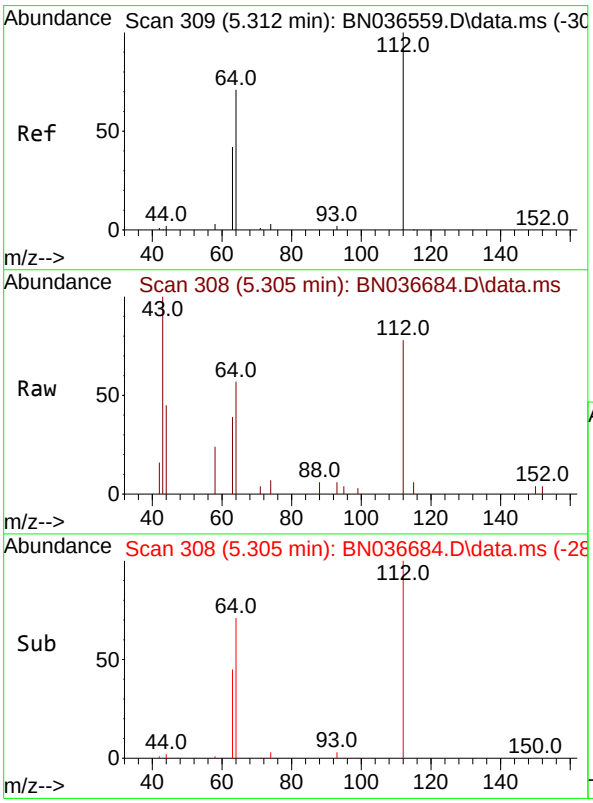
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Tgt Ion:152 Resp: 1698

Ion	Ratio	Lower	Upper
152	100		
150	149.1	123.7	185.5
115	68.4	54.3	81.5

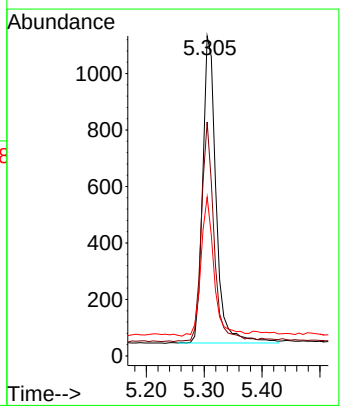


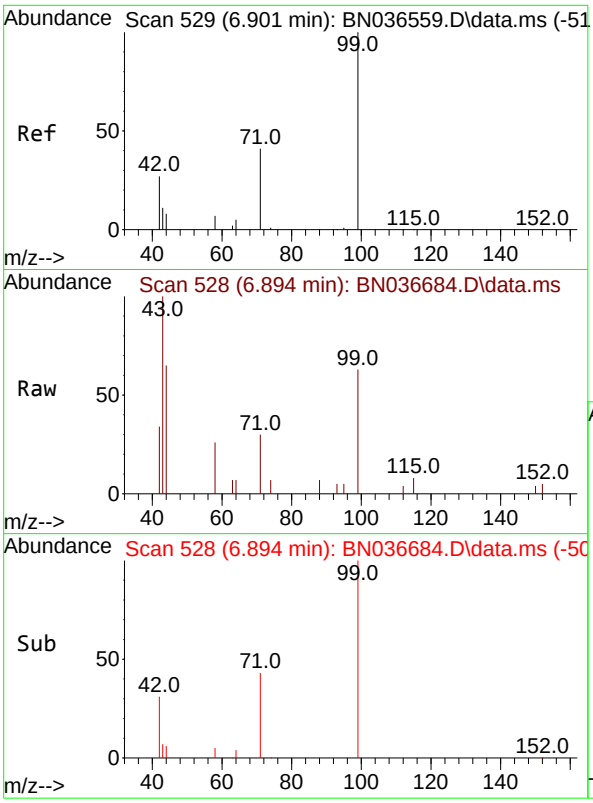


#4
2-Fluorophenol
Concen: 0.443 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:112 Resp: 1752

Ion	Ratio	Lower	Upper
112	100		
64	67.7	53.1	79.7
63	44.2	31.8	47.8



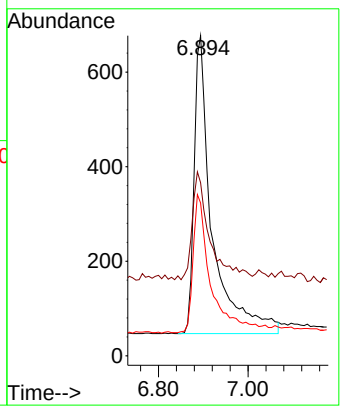


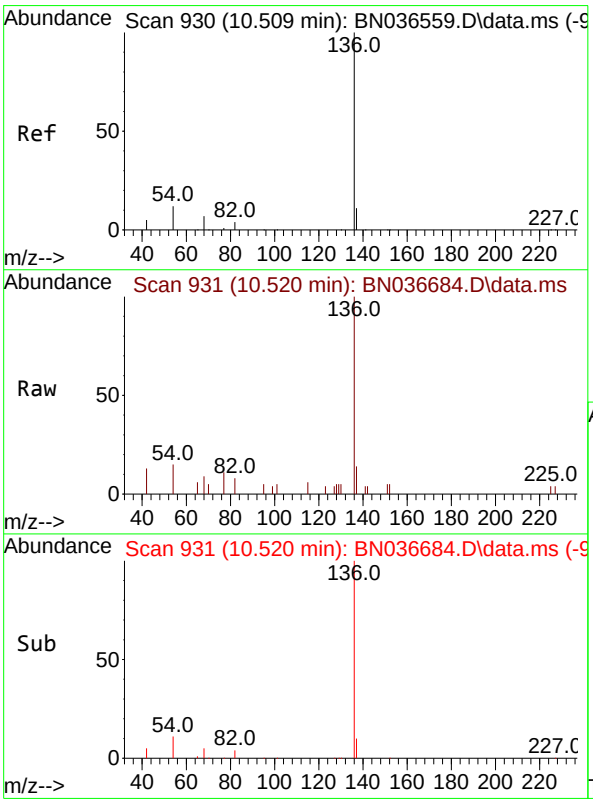
#5
Phenol-d6
Concen: 0.361 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Tgt Ion: 99 Resp: 1764

Ion	Ratio	Lower	Upper
99	100		
42	35.0	26.5	39.7
71	46.0	34.1	51.1

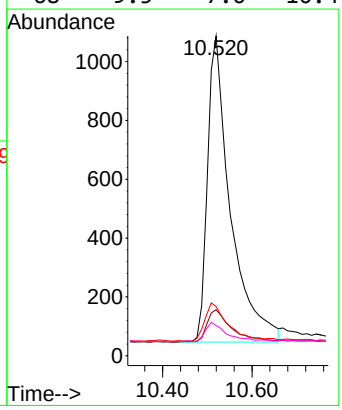


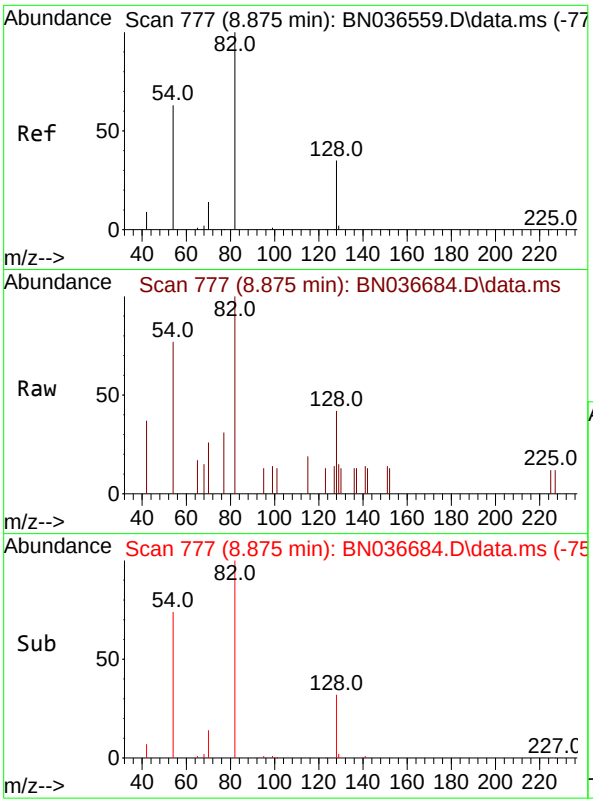


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 931
Delta R.T. 0.011 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:136 Resp: 3698

Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.3	15.5
54	15.4	11.5	17.3
68	9.5	7.0	10.4



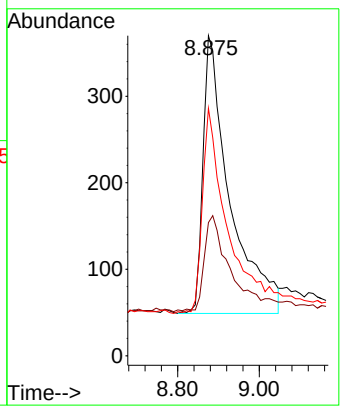


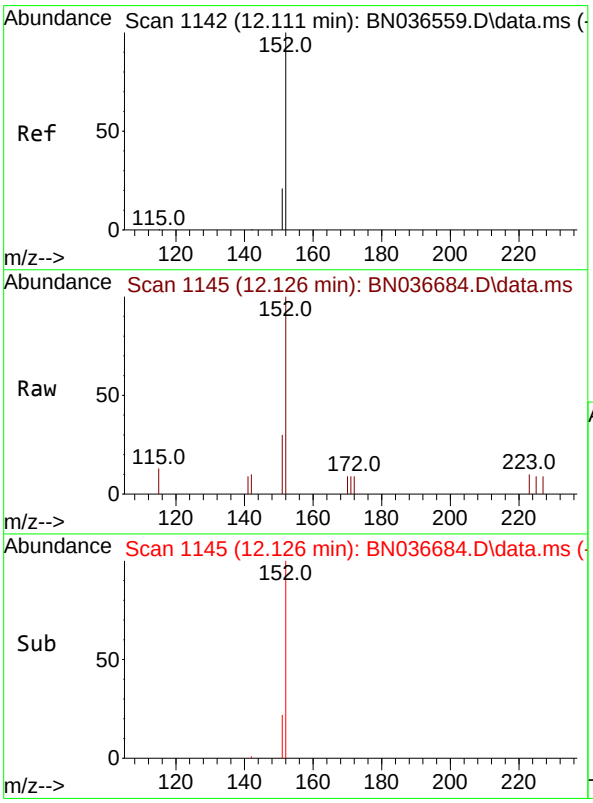
#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.875 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Tgt Ion: 82 Resp: 1459

Ion	Ratio	Lower	Upper
82	100		
128	41.6	30.6	45.8
54	77.3	52.2	78.4

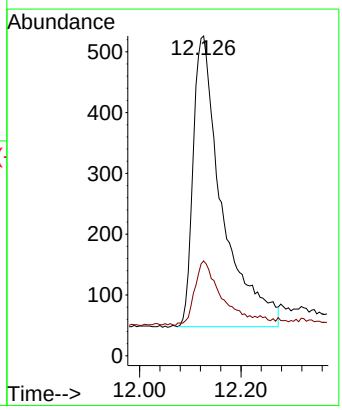


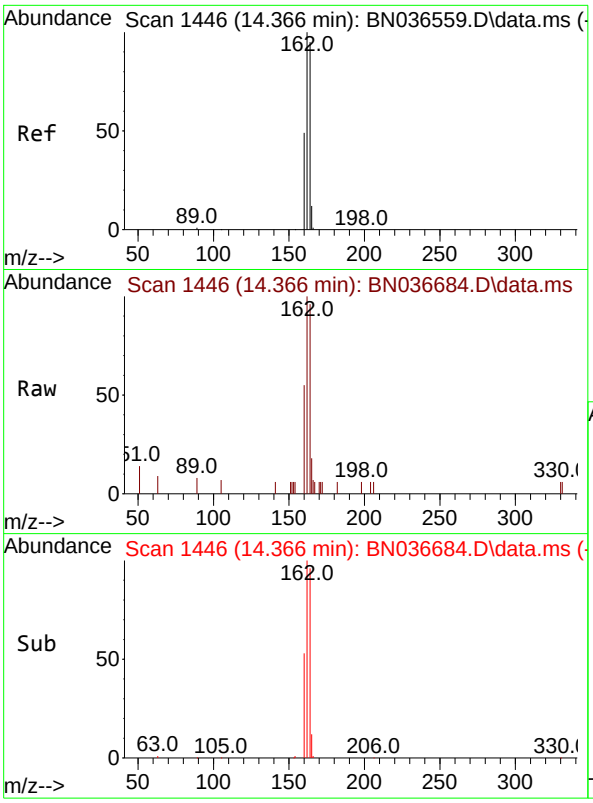


#11
2-Methylnaphthalene-d10
Concen: 0.345 ng
RT: 12.126 min Scan# 1145
Delta R.T. 0.015 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:152 Resp: 1897

Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.0	25.6



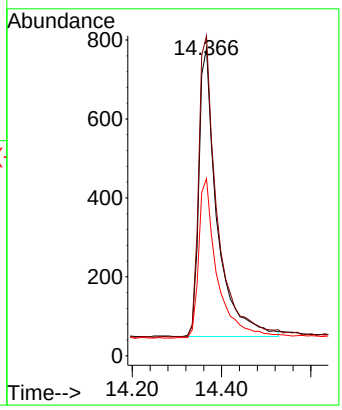


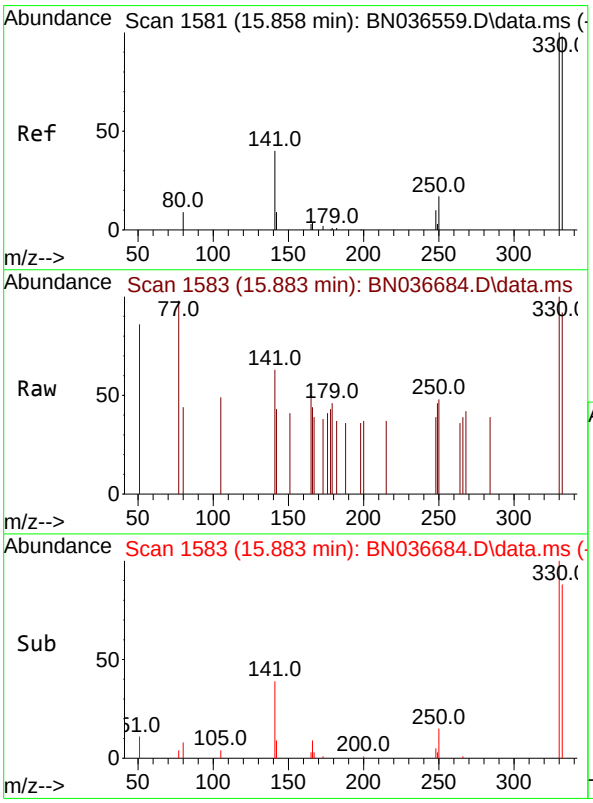
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Tgt Ion:164 Resp: 2056

Ion	Ratio	Lower	Upper
164	100		
162	104.0	84.2	126.2
160	57.6	42.2	63.2

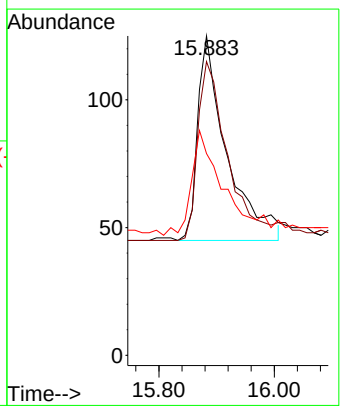


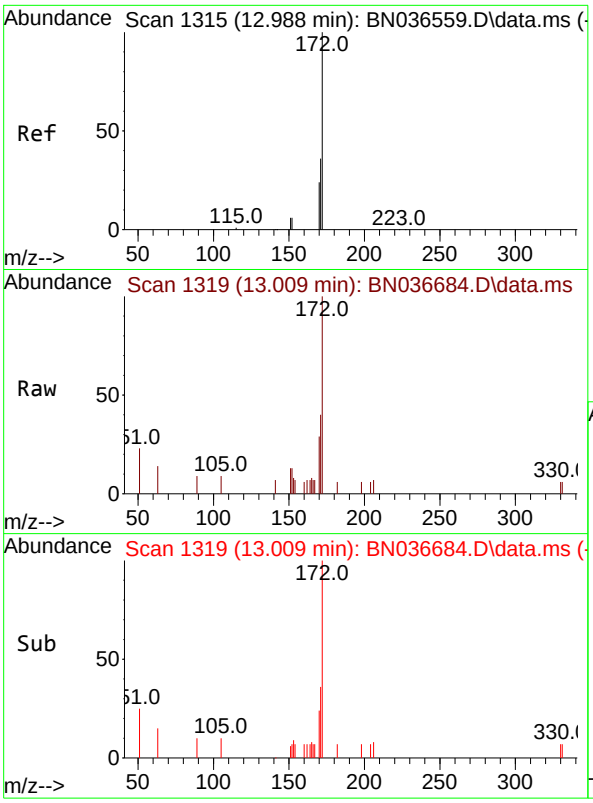


#14
2,4,6-Tribromophenol
Concen: 0.300 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.025 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:330 Resp: 280

Ion	Ratio	Lower	Upper
330	100		
332	90.0	75.2	112.8
141	56.8	43.4	65.2



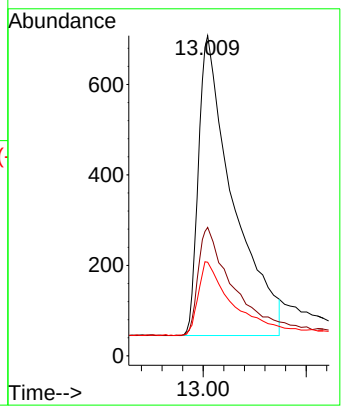


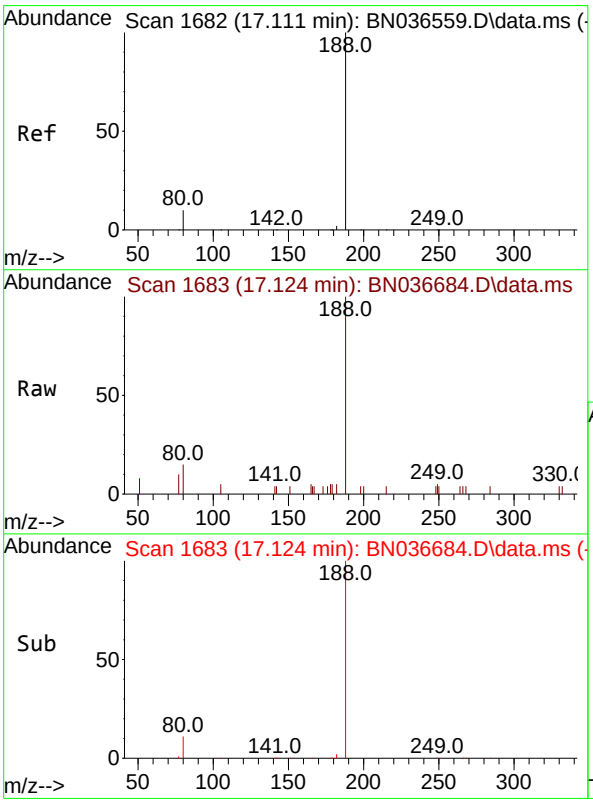
#15
2-Fluorobiphenyl
Concen: 0.252 ng
RT: 13.009 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Tgt Ion:172 Resp: 3010

Ion	Ratio	Lower	Upper
172	100		
171	40.1	29.5	44.3
170	29.2	20.2	30.4

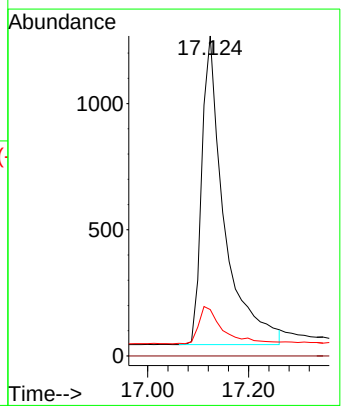


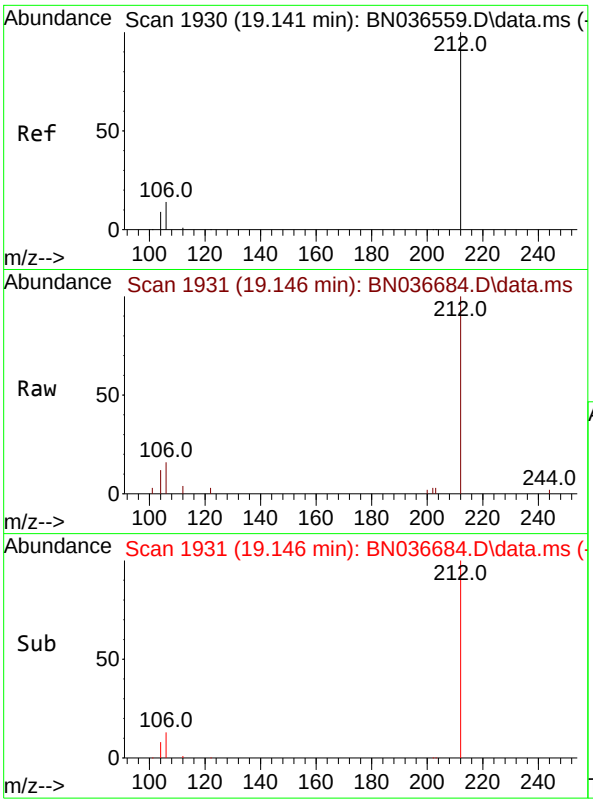


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.013 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:188 Resp: 3776

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



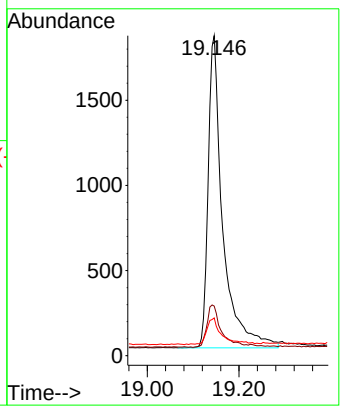


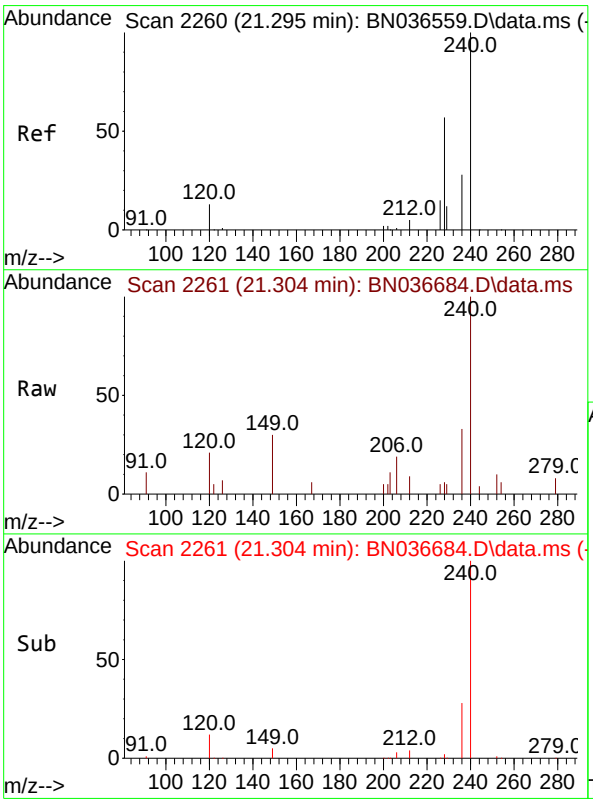
#27
Fluoranthene-d10
Concen: 0.419 ng
RT: 19.146 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Tgt Ion:212 Resp: 4054

Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.8	17.6
104	9.0	7.3	10.9

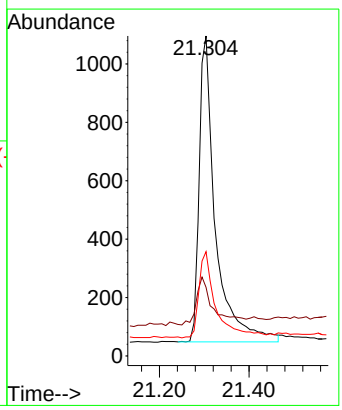


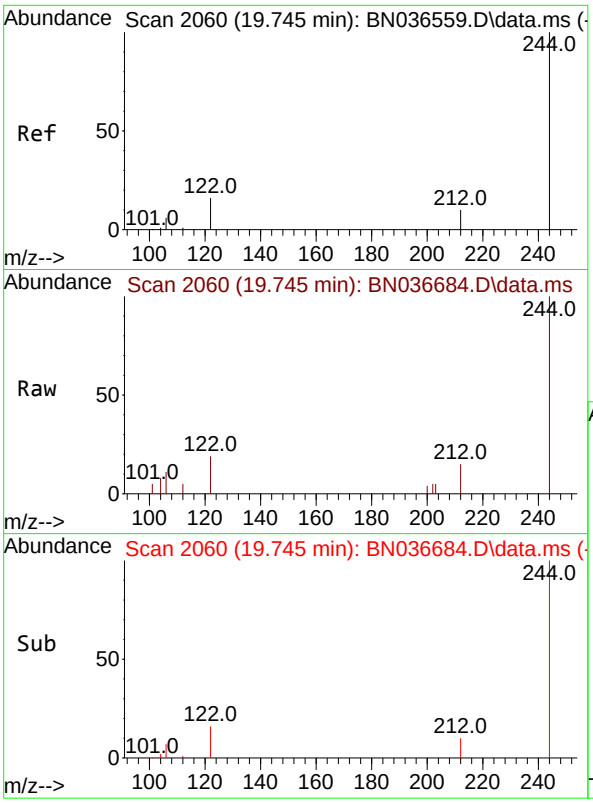


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:240 Resp: 2642

Ion	Ratio	Lower	Upper
240	100		
120	21.4	14.6	22.0
236	32.6	24.1	36.1



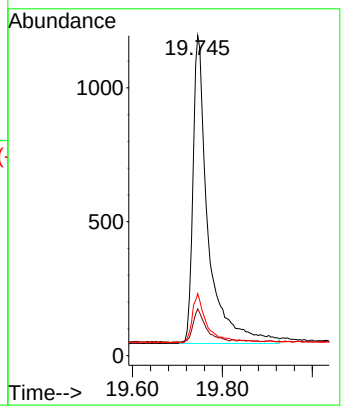


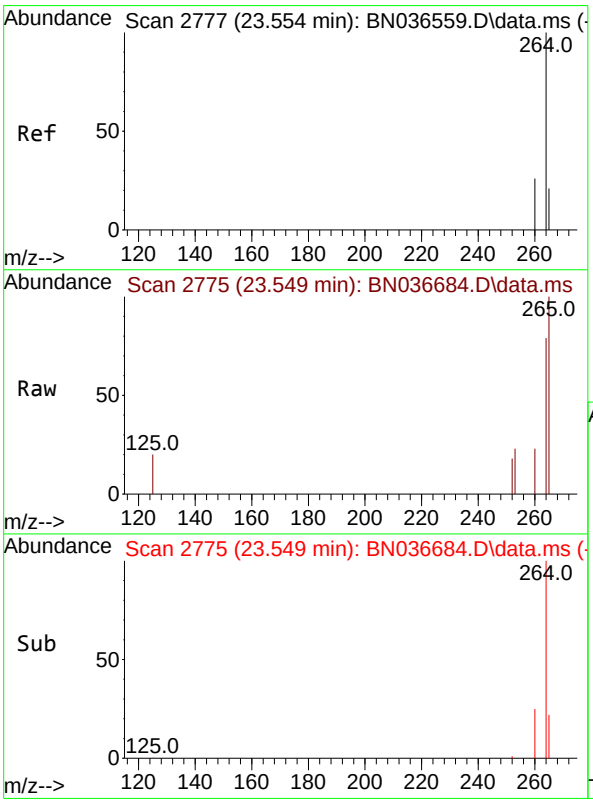
#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Instrument :
BNA_N
ClientSampleId :
PB167159BL

Tgt Ion:244 Resp: 2710

Ion	Ratio	Lower	Upper
244	100		
212	14.6	9.6	14.4#
122	19.4	13.9	20.9

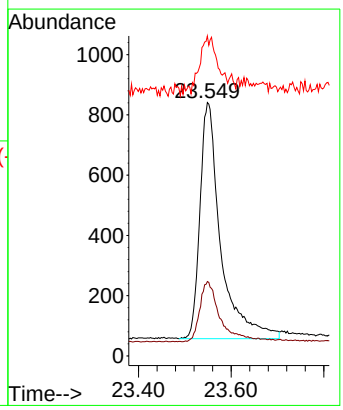




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.549 min Scan# 2775
Delta R.T. -0.006 min
Lab File: BN036684.D
Acq: 18 Mar 2025 09:57

Tgt Ion:264 Resp: 2442

Ion	Ratio	Lower	Upper
264	100		
260	29.4	22.6	33.8
265	126.3	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:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB167159BS	SDG No.:	Q1582
Lab Sample ID:	PB167159BS	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
BN036665.D	1	03/17/25 08:48	03/17/25 18:31	PB167159

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		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		103%	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	1650	7.717				
1146-65-2	Naphthalene-d8	3860	10.498				
15067-26-2	Acenaphthene-d10	1950	14.356				
1517-22-2	Phenanthrene-d10	3290	17.099				
1719-03-5	Chrysene-d12	1970	21.295				
1520-96-3	Perylene-d12	1880	23.552				

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\BN031725\
Data File : BN036665.D
Acq On : 17 Mar 2025 18:31
Operator : RC/JU
Sample : PB167159BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 18 00:55:04 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 :
PB167159BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1650	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3863	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	1951	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3290	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	1972	0.400	ng	0.00
35) Perylene-d12	23.552	264	1878	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1561	0.406	ng	0.00
5) Phenol-d6	6.894	99	1791	0.377	ng	0.00
8) Nitrobenzene-d5	8.865	82	1547	0.368	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2492m	0.434	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	287	0.324	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4691	0.413	ng	0.00
27) Fluoranthene-d10	19.137	212	2860	0.339	ng	0.00
31) Terphenyl-d14	19.745	244	1935	0.410	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	682	0.373	ng	# 23
3) n-Nitrosodimethylamine	3.550	42	1682	0.454	ng	93
6) bis(2-Chloroethyl)ether	7.147	93	1884	0.384	ng	97
9) Naphthalene	10.552	128	4632	0.408	ng	99
10) Hexachlorobutadiene	10.840	225	1141	0.427	ng	# 98
12) 2-Methylnaphthalene	12.172	142	2867	0.397	ng	98
16) Acenaphthylene	14.078	152	4194	0.456	ng	99
17) Acenaphthene	14.420	154	2595	0.431	ng	99
18) Fluorene	15.403	166	3260	0.400	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	204	0.389	ng	91
21) 4-Bromophenyl-phenylether	16.305	248	921	0.447	ng	89
22) Hexachlorobenzene	16.416	284	1125	0.452	ng	93
23) Atrazine	16.578	200	729	0.441	ng	# 89
24) Pentachlorophenol	16.764	266	690	0.608	ng	99
25) Phenanthrene	17.149	178	4250	0.431	ng	100
26) Anthracene	17.236	178	3990	0.448	ng	99
28) Fluoranthene	19.169	202	4249	0.383	ng	98
30) Pyrene	19.531	202	4301	0.446	ng	99
32) Benzo(a)anthracene	21.277	228	2770	0.404	ng	98
33) Chrysene	21.331	228	3606	0.481	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	1852	0.379	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.829	276	3428	0.506	ng	# 91
37) Benzo(b)fluoranthene	22.870	252	2702	0.395	ng	96
38) Benzo(k)fluoranthene	22.914	252	3373m	0.470	ng	
39) Benzo(a)pyrene	23.452	252	2835	0.493	ng	96
40) Dibenzo(a,h)anthracene	25.850	278	2578	0.489	ng	93
41) Benzo(g,h,i)perylene	26.519	276	2857	0.473	ng	97

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

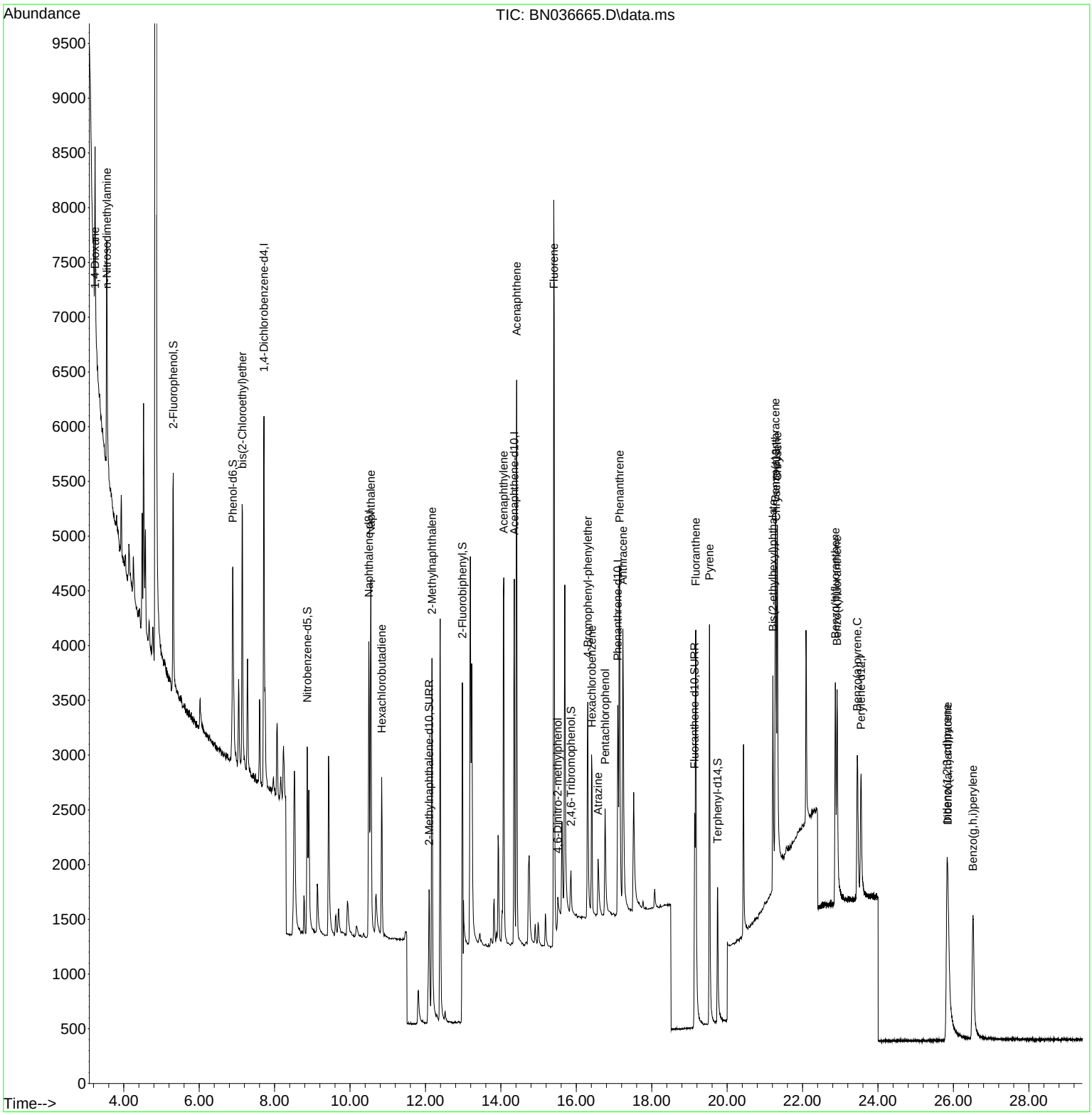
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Data File : BN036665.D
Acq On : 17 Mar 2025 18:31
Operator : RC/JU
Sample : PB167159BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

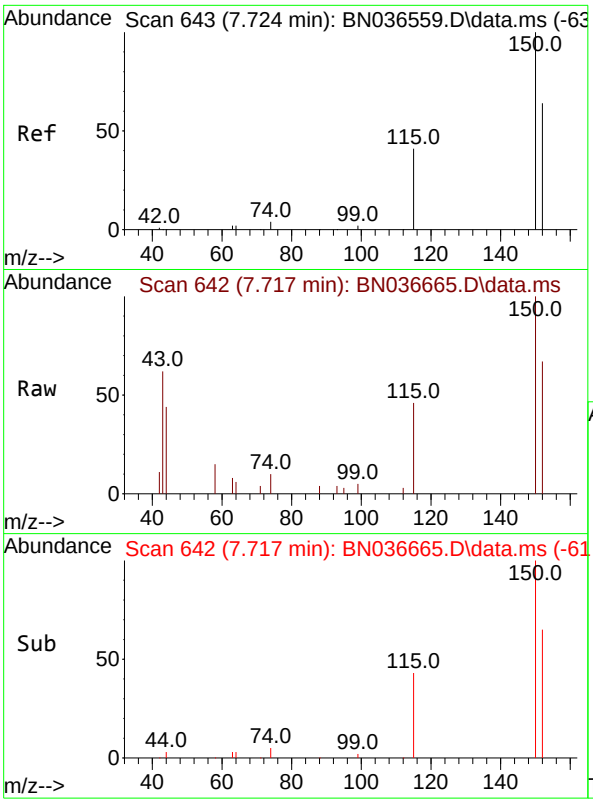
Quant Time: Mar 18 00:55:04 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

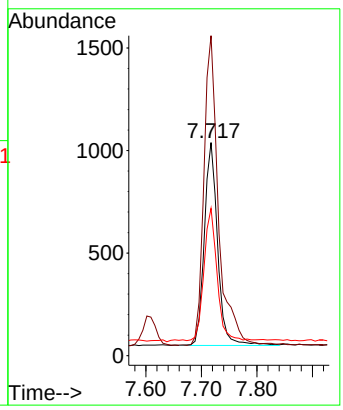




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:152 Resp: 165

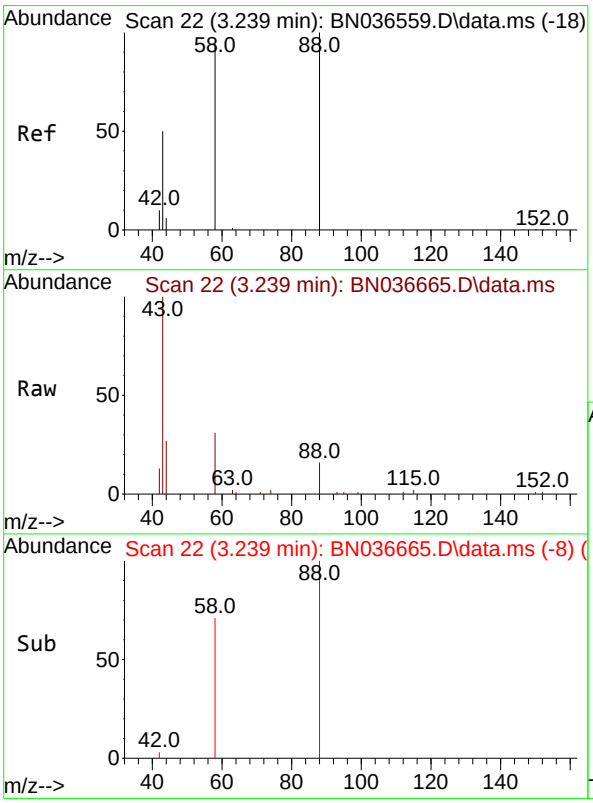
Ion	Ratio	Lower	Upper
152	100		
150	150.1	123.7	185.5
115	69.1	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

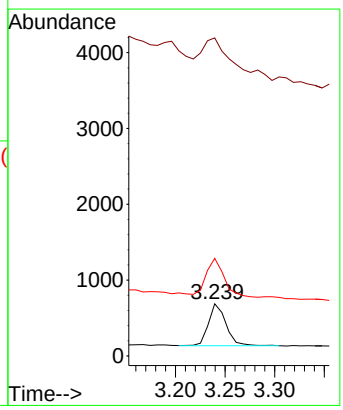
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

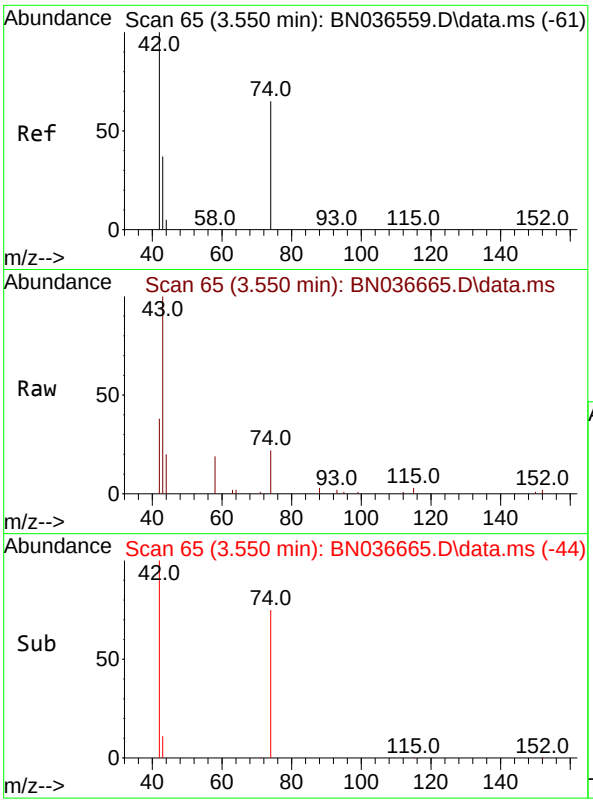


#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 88 Resp: 682

Ion	Ratio	Lower	Upper
88	100		
43	177.0	37.8	56.8#
58	94.6	67.4	101.2

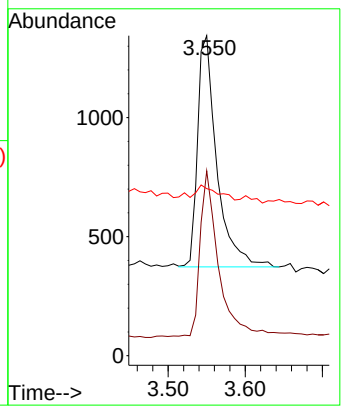




#3
n-Nitrosodimethylamine
Concen: 0.454 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 42 Resp: 168

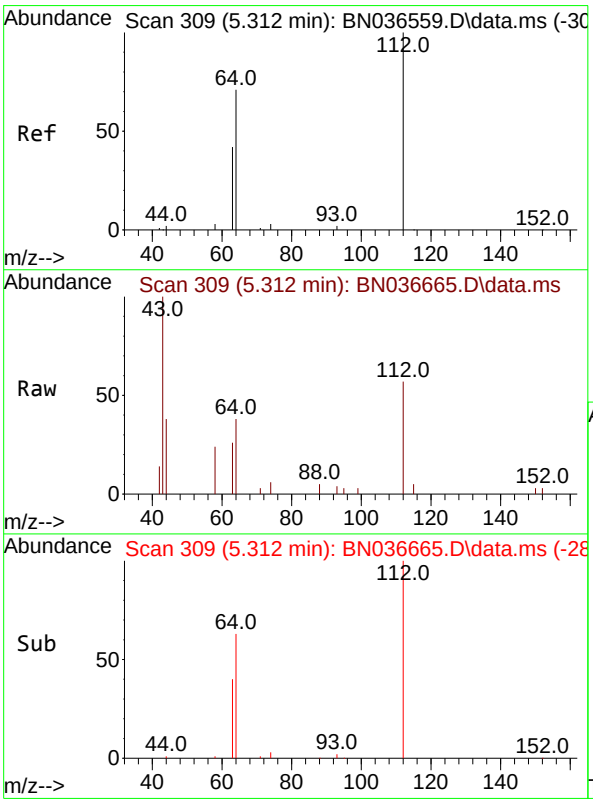
Ion	Ratio	Lower	Upper
42	100		
74	69.5	60.6	90.8
44	7.4	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

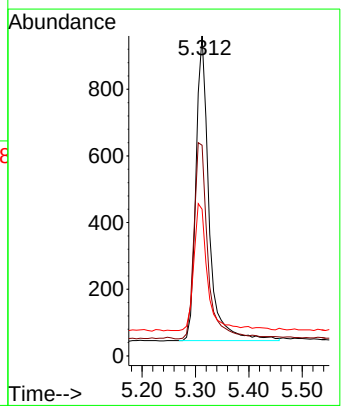
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

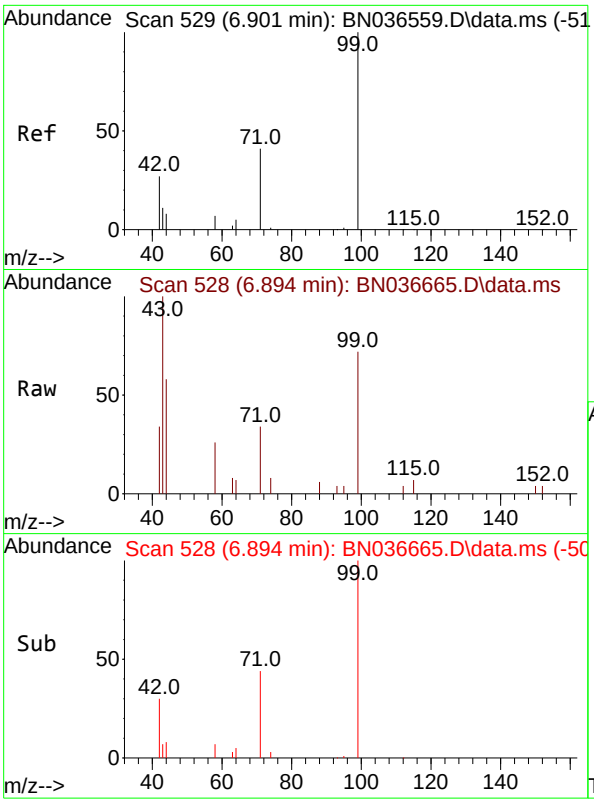


#4
2-Fluorophenol
Concen: 0.406 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:112 Resp: 1561

Ion	Ratio	Lower	Upper
112	100		
64	68.9	53.1	79.7
63	42.5	31.8	47.8

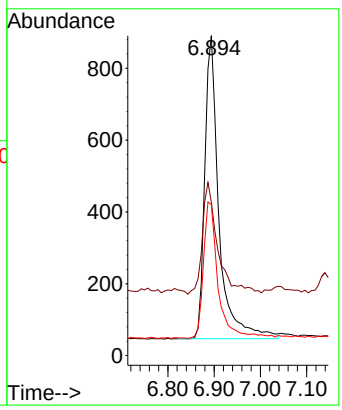




#5
Phenol-d6
Concen: 0.377 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 99 Resp: 179

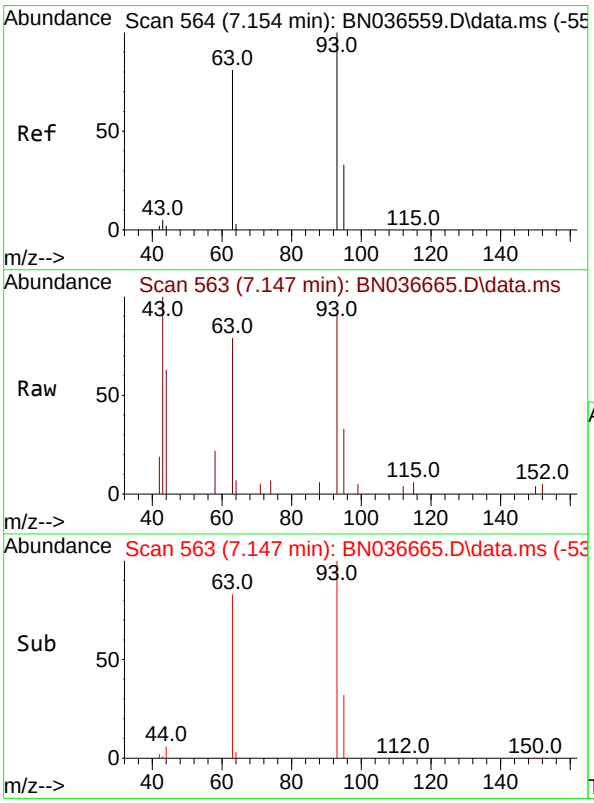
Ion	Ratio	Lower	Upper
99	100		
42	40.4	26.5	39.7#
71	46.6	34.1	51.1



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

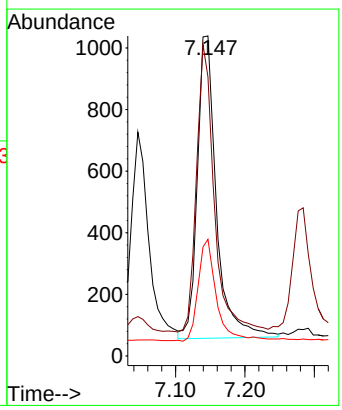
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

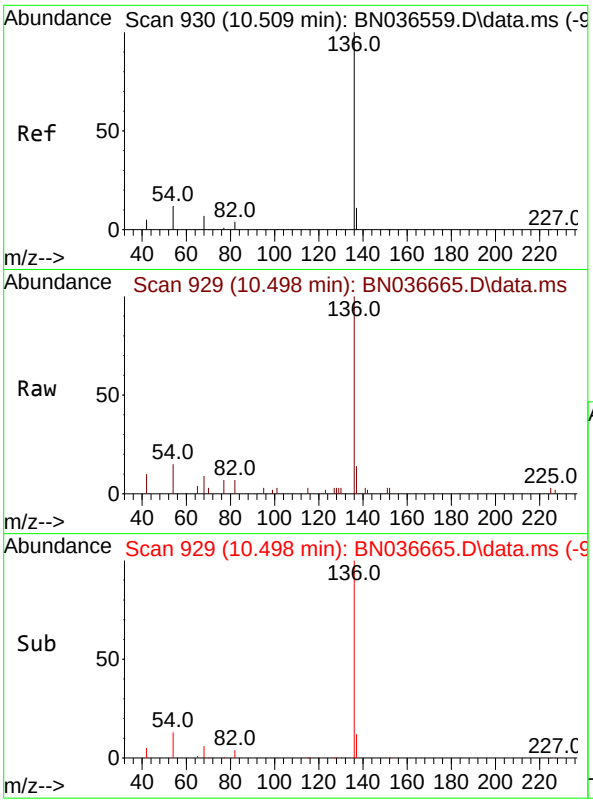


#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 93 Resp: 1884

Ion	Ratio	Lower	Upper
93	100		
63	88.0	67.7	101.5
95	31.6	25.6	38.4

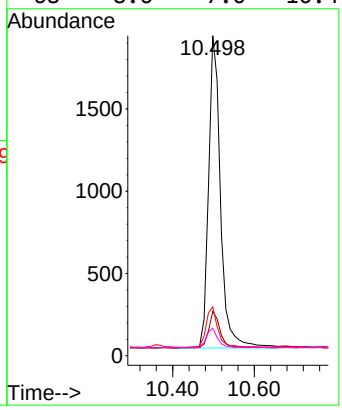




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:136 Resp: 386

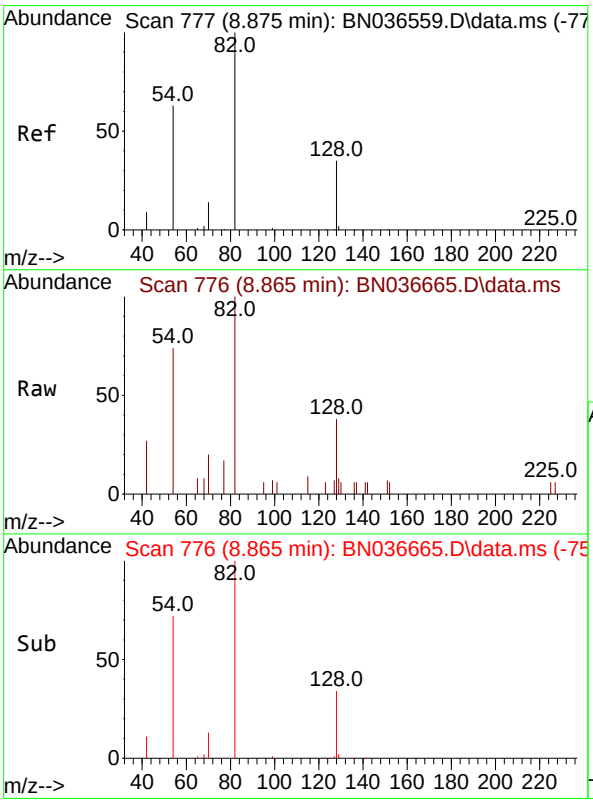
Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.3	11.5	17.3
68	8.6	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

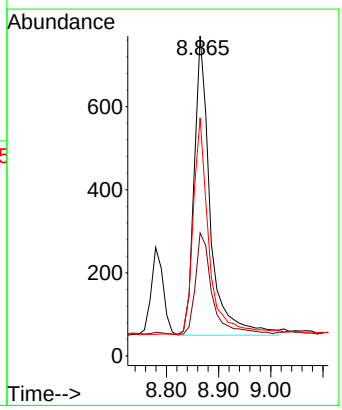
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

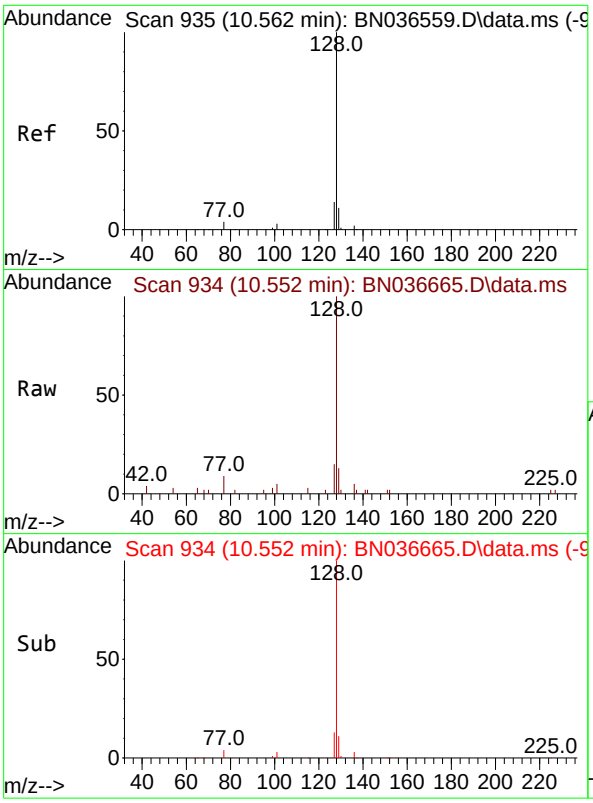


#8
Nitrobenzene-d5
Concen: 0.368 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 82 Resp: 1547

Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.6	45.8
54	74.4	52.2	78.4

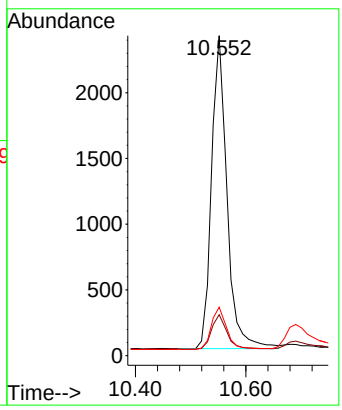




#9
Naphthalene
Concen: 0.408 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:128 Resp: 463

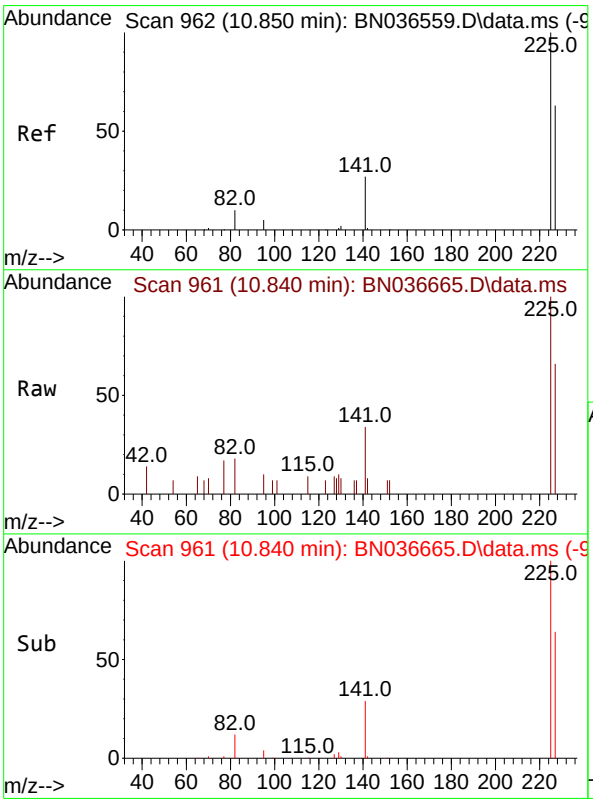
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.2	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

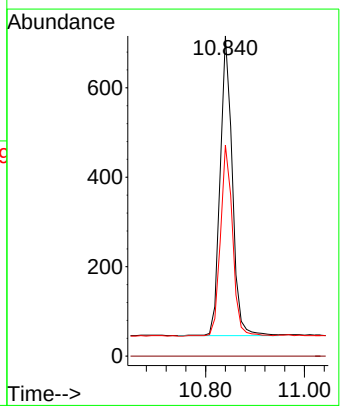
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

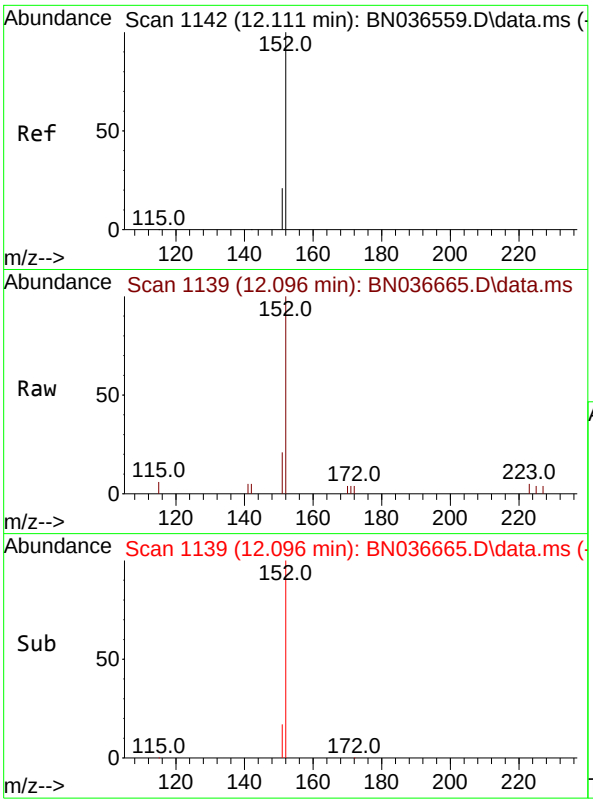


#10
Hexachlorobutadiene
Concen: 0.427 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:225 Resp: 1141

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8

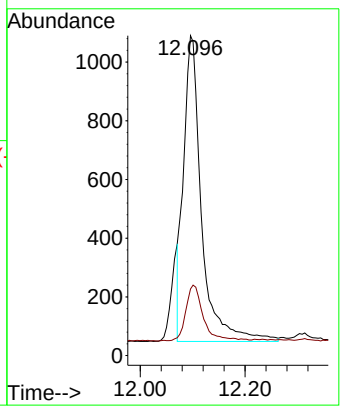




#11
2-Methylnaphthalene-d10
Concen: 0.434 ng m
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:152 Resp: 249

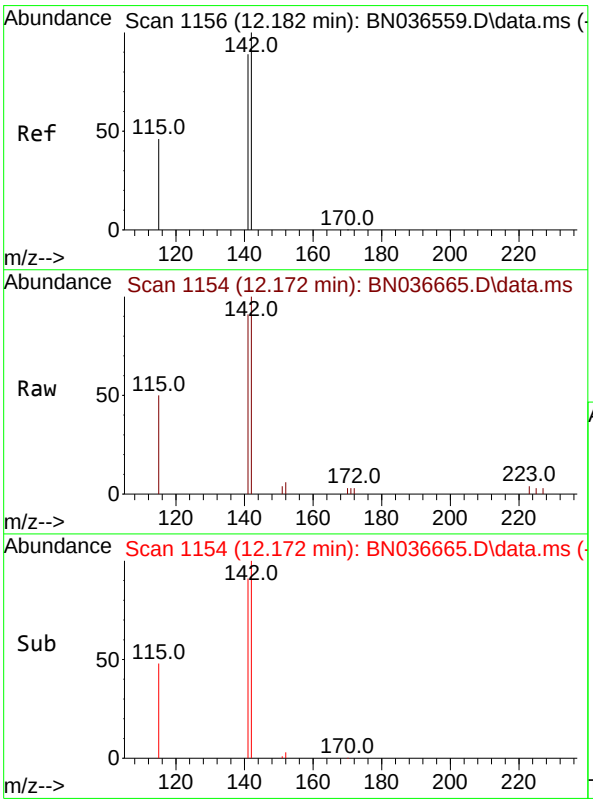
Ion	Ratio	Lower	Upper
152	100		
151	17.1	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

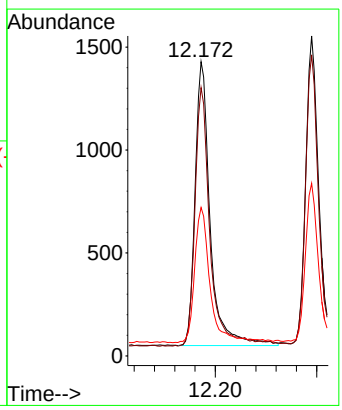
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

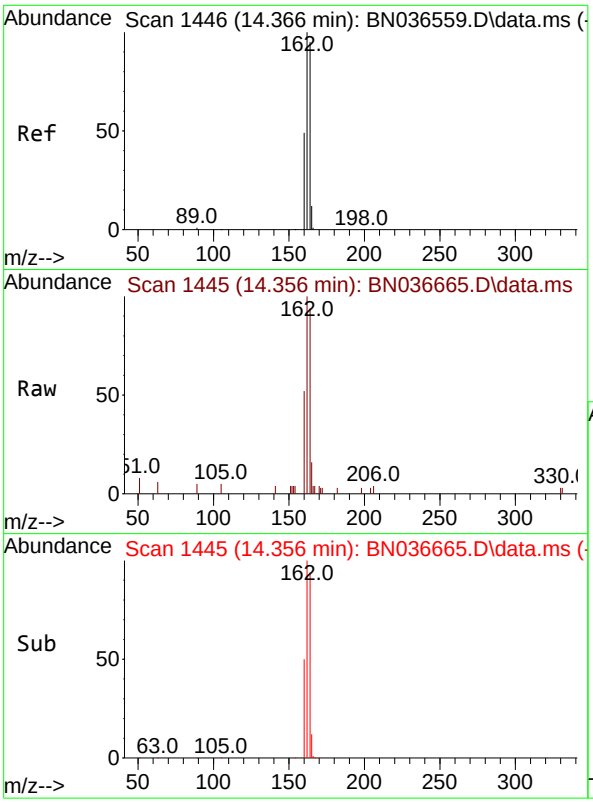


#12
2-Methylnaphthalene
Concen: 0.397 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:142 Resp: 2867

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.7	107.5
115	50.5	38.3	57.5

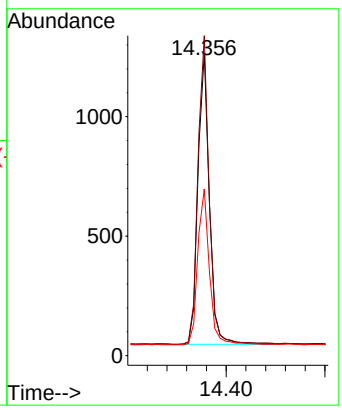




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:164 Resp: 195

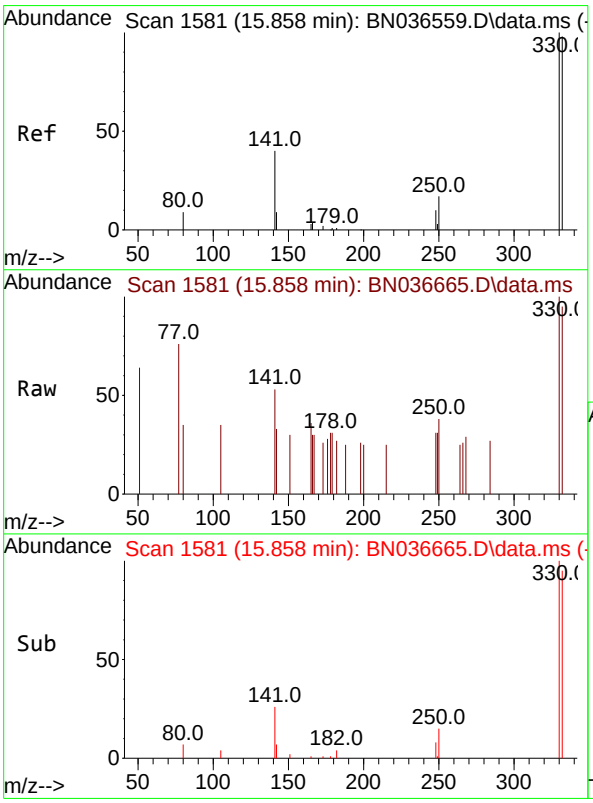
Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.2	126.2
160	55.2	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

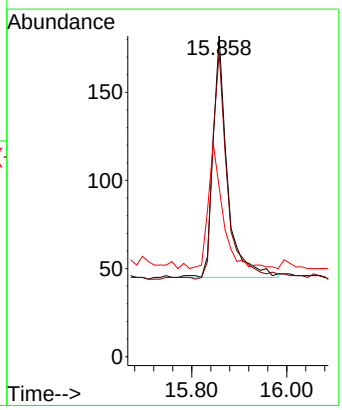
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

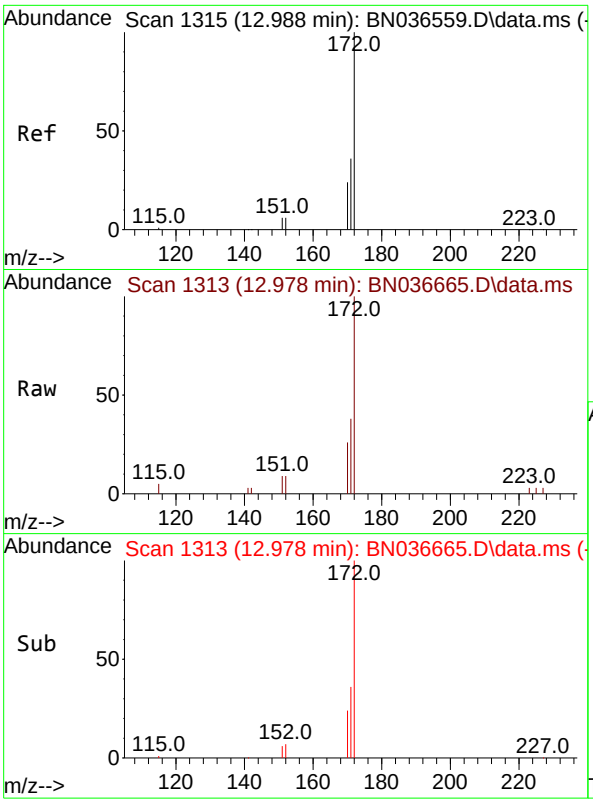


#14
2,4,6-Tribromophenol
Concen: 0.324 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:330 Resp: 287

Ion	Ratio	Lower	Upper
330	100		
332	97.9	75.2	112.8
141	52.3	43.4	65.2

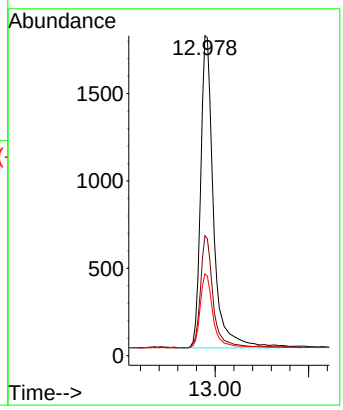




#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:172 Resp: 469

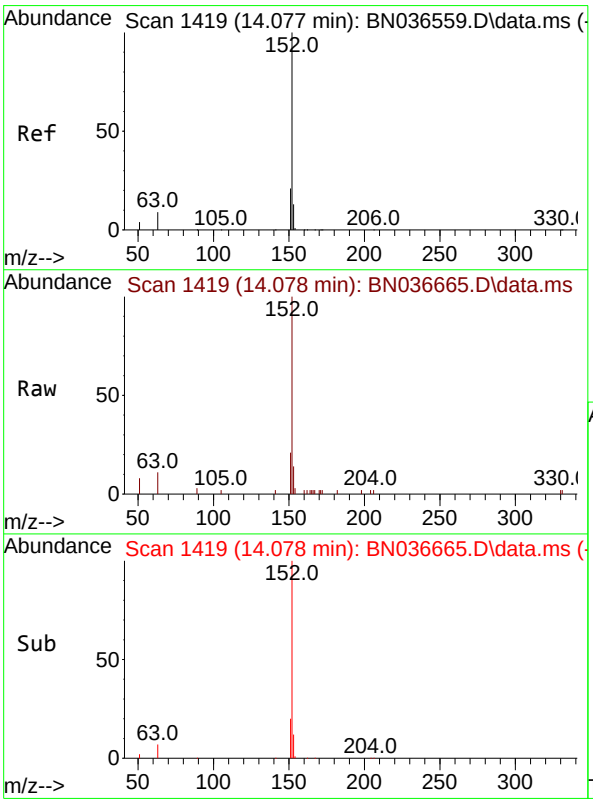
Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.5	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

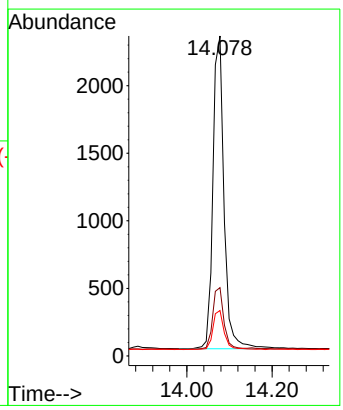
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

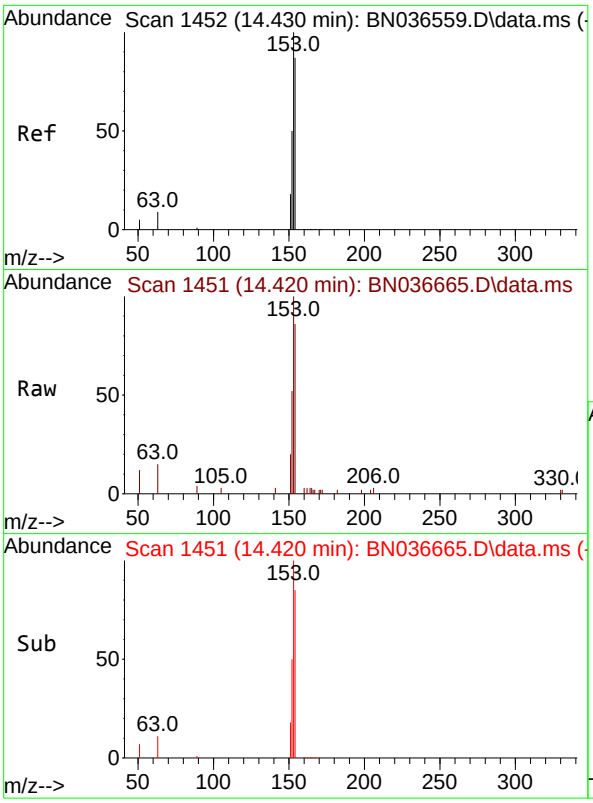


#16
Acenaphthylene
Concen: 0.456 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:152 Resp: 4194

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.9	10.6	15.8

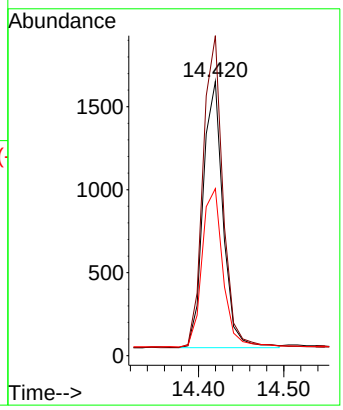




#17
Acenaphthene
Concen: 0.431 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:154 Resp: 259

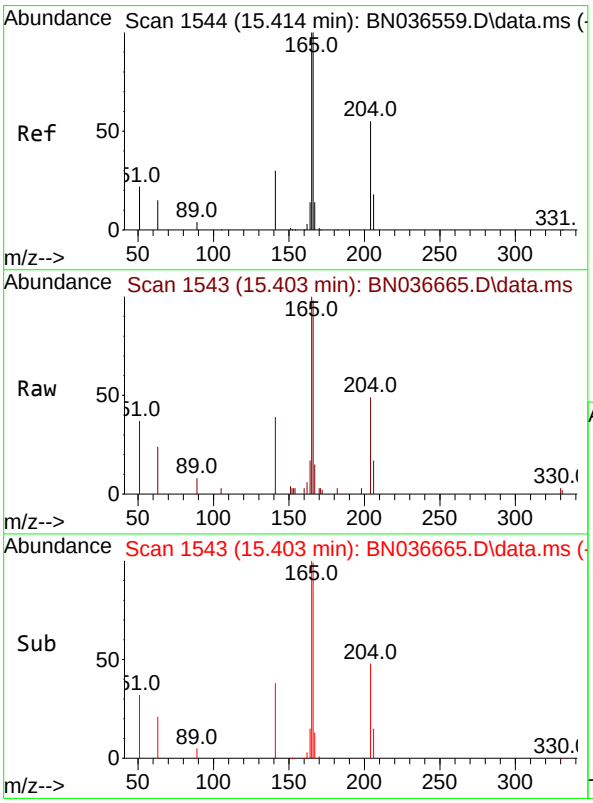
Ion	Ratio	Lower	Upper
154	100		
153	118.7	94.1	141.1
152	63.4	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
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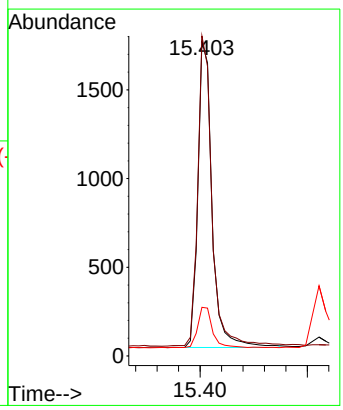
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

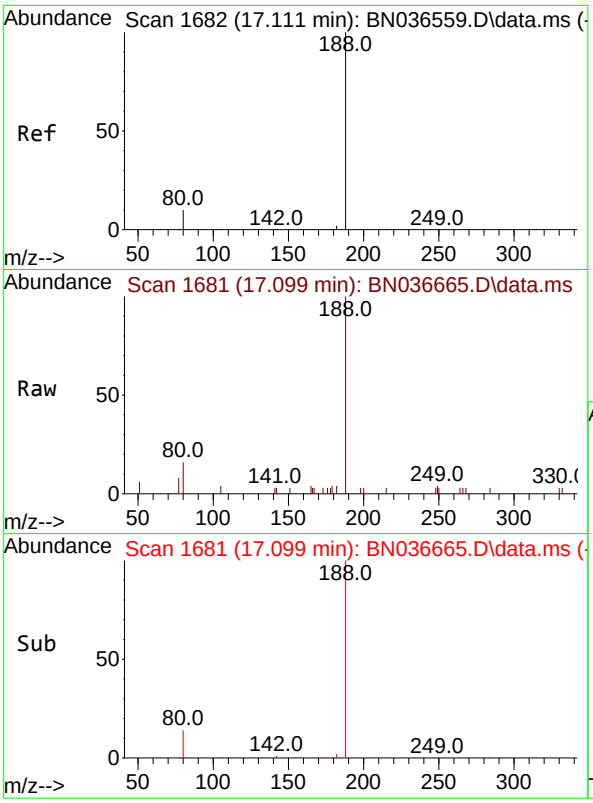


#18
Fluorene
Concen: 0.400 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:166 Resp: 3260

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.8	119.8
167	14.0	10.6	15.8

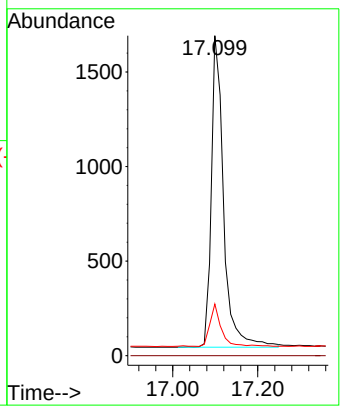




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:188 Resp: 329(

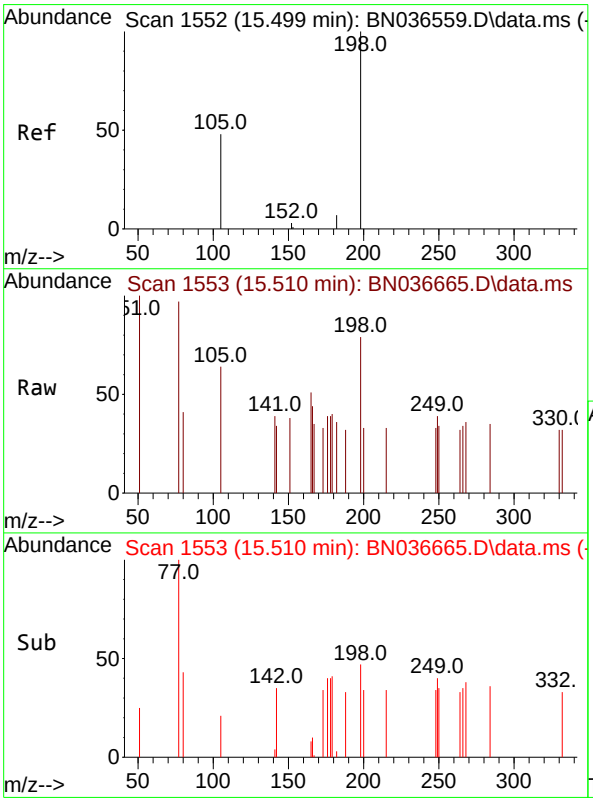
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.1	8.8	13.2#



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

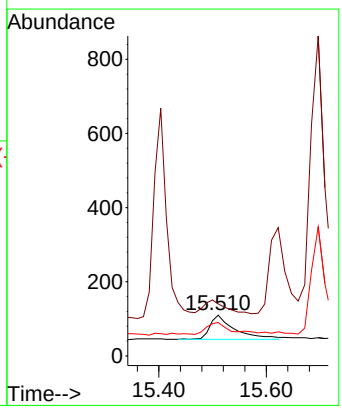
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

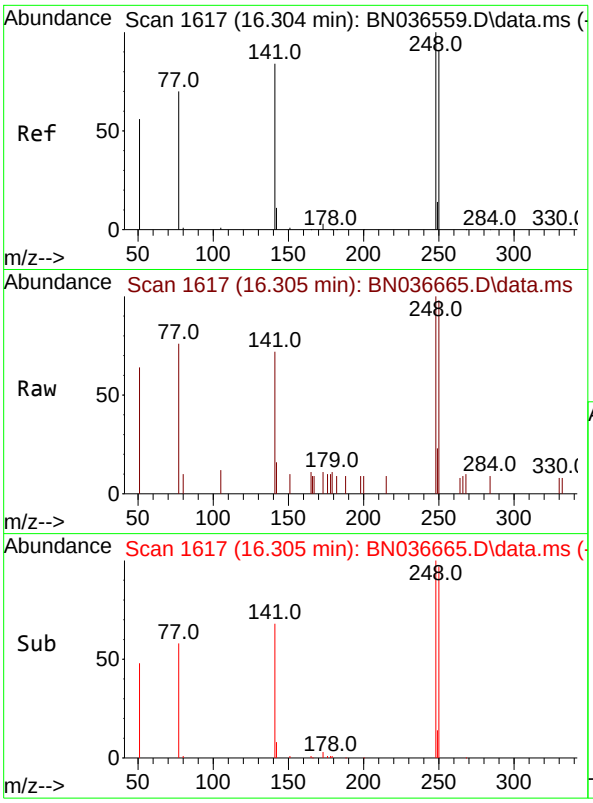


#20
4,6-Dinitro-2-methylphenol
Concen: 0.389 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:198 Resp: 204

Ion	Ratio	Lower	Upper
198	100		
51	127.3	107.9	161.9
105	81.8	56.2	84.2

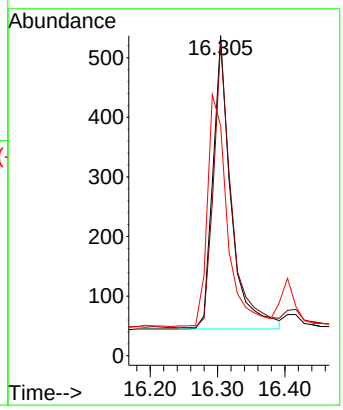




#21
4-Bromophenyl-phenylether
Concen: 0.447 ng
RT: 16.305 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:248 Resp: 92

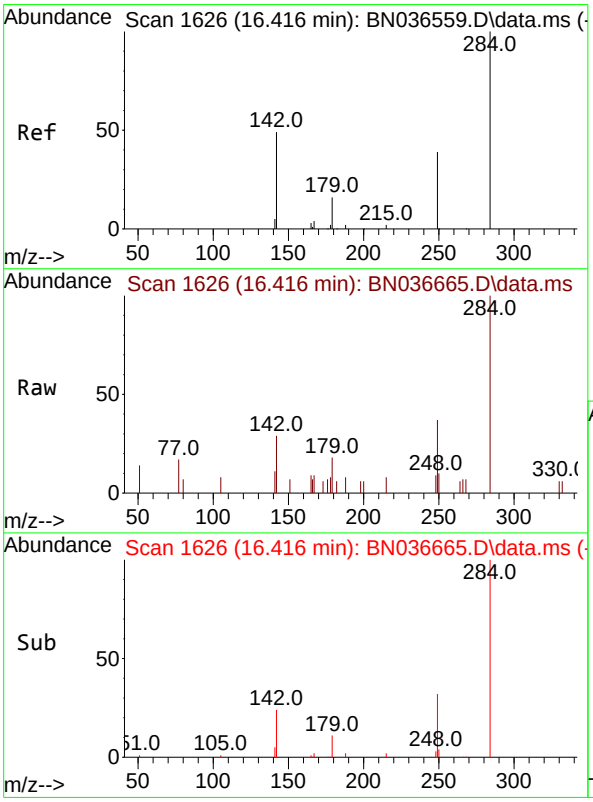
Ion	Ratio	Lower	Upper
248	100		
250	97.8	73.0	109.6
141	71.9	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

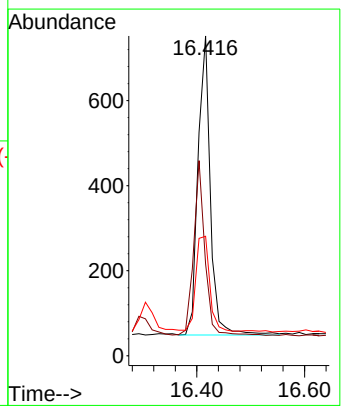
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

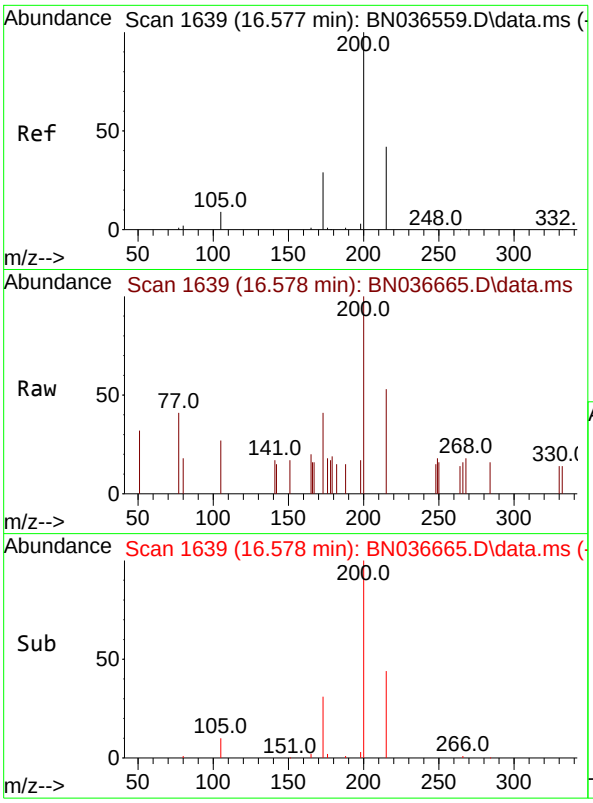


#22
Hexachlorobenzene
Concen: 0.452 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:284 Resp: 1125

Ion	Ratio	Lower	Upper
284	100		
142	53.7	37.0	55.4
249	35.8	28.1	42.1

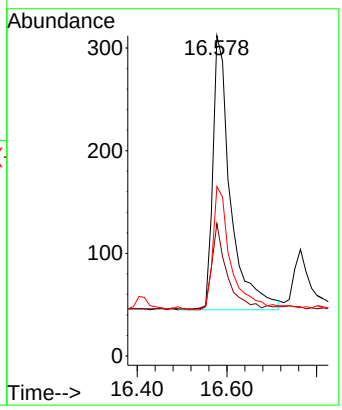




#23
Atrazine
Concen: 0.441 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:200 Resp: 72(

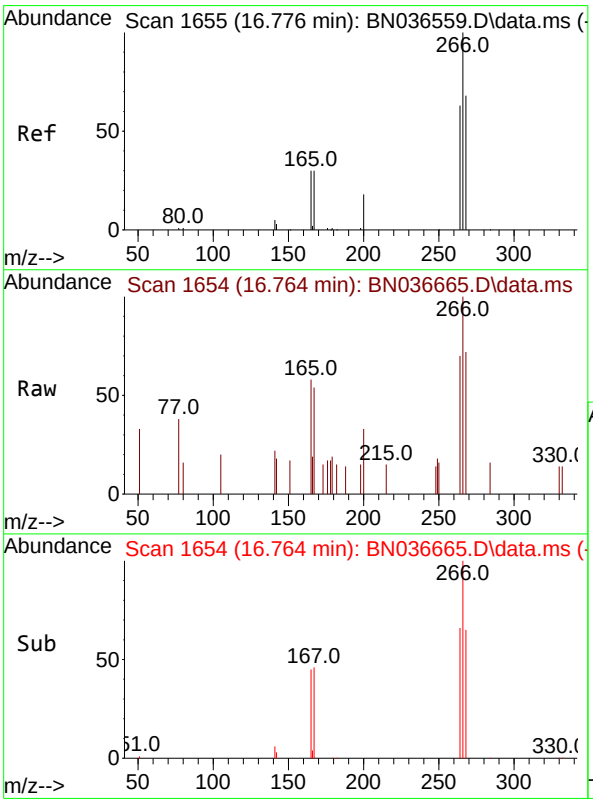
Ion	Ratio	Lower	Upper
200	100		
173	41.3	27.3	40.9#
215	52.9	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

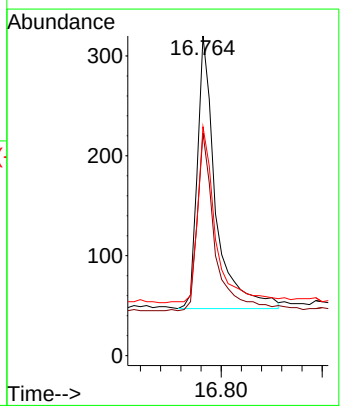
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

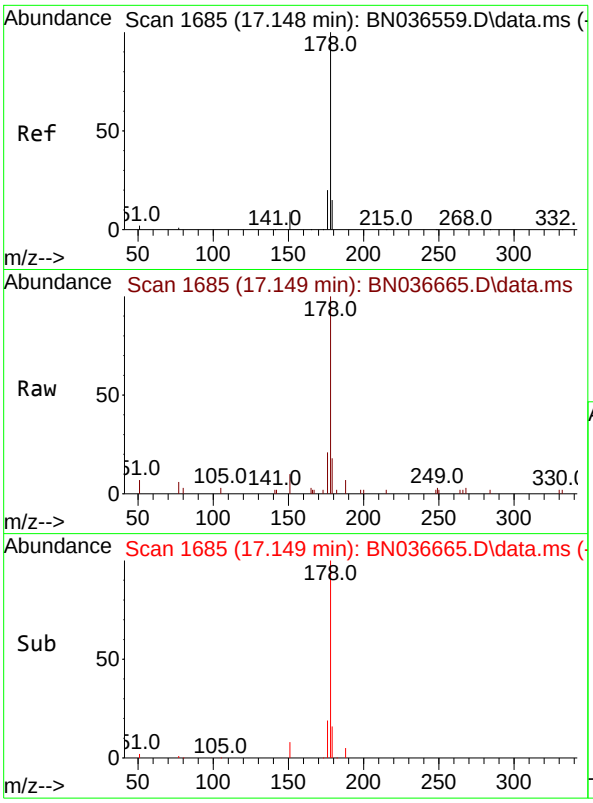


#24
Pentachlorophenol
Concen: 0.608 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:266 Resp: 690

Ion	Ratio	Lower	Upper
266	100		
264	61.6	49.6	74.4
268	62.8	50.9	76.3

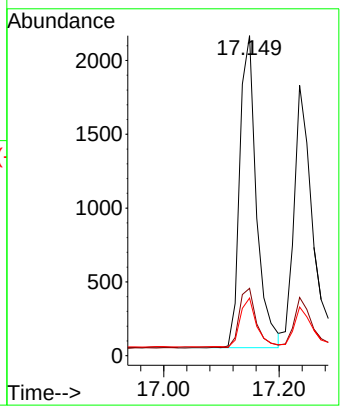




#25
Phenanthrene
Concen: 0.431 ng
RT: 17.149 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:178 Resp: 425(

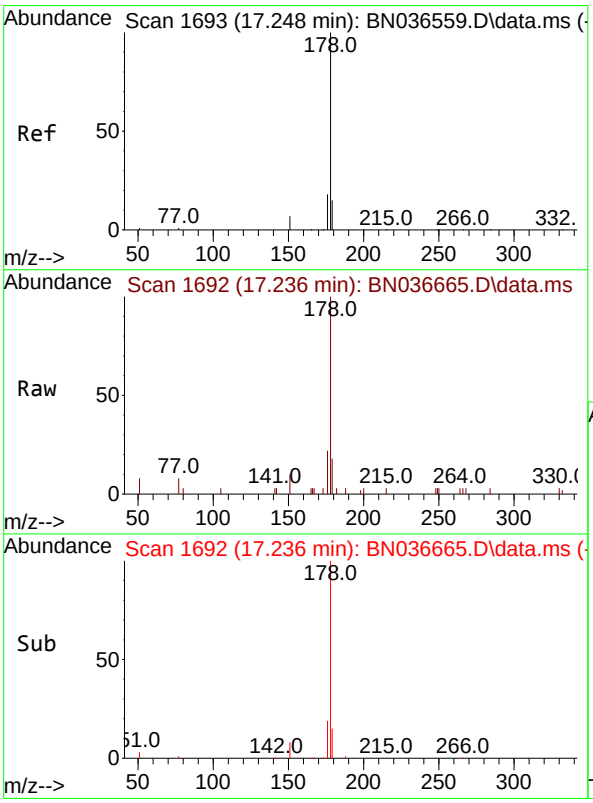
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.3	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
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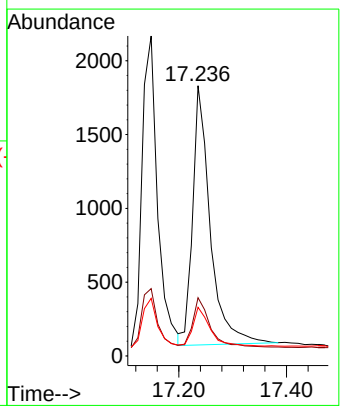
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

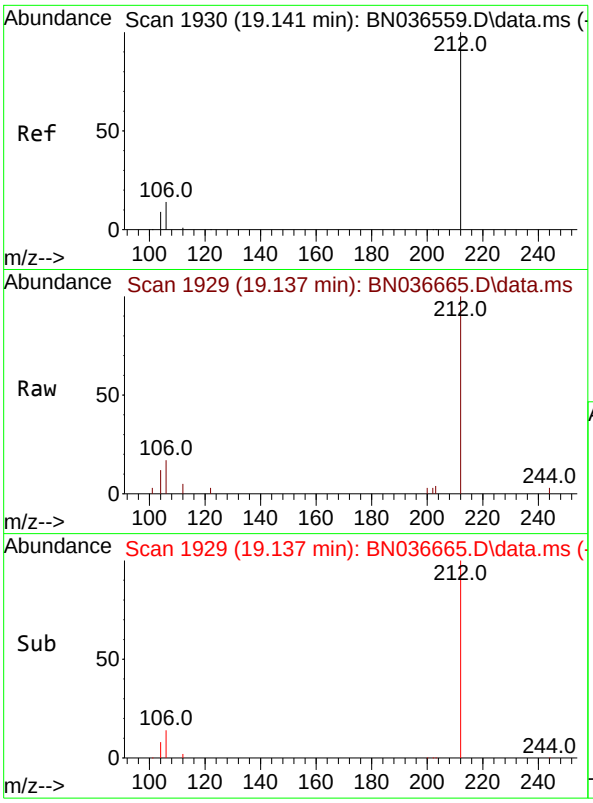


#26
Anthracene
Concen: 0.448 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:178 Resp: 3990

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	14.9	12.6	18.8

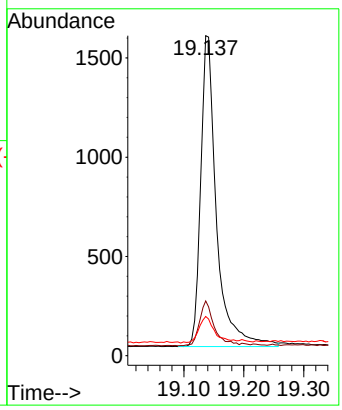




#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 19.137 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:212 Resp: 286

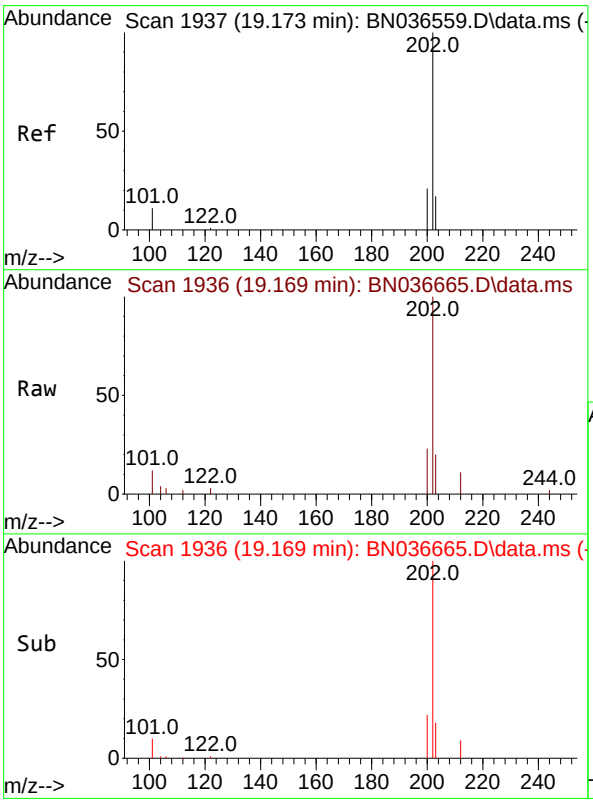
Ion	Ratio	Lower	Upper
212	100		
106	13.3	11.8	17.6
104	8.7	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

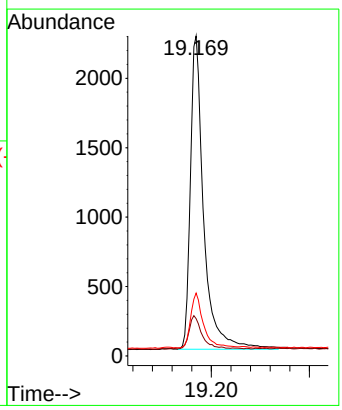
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

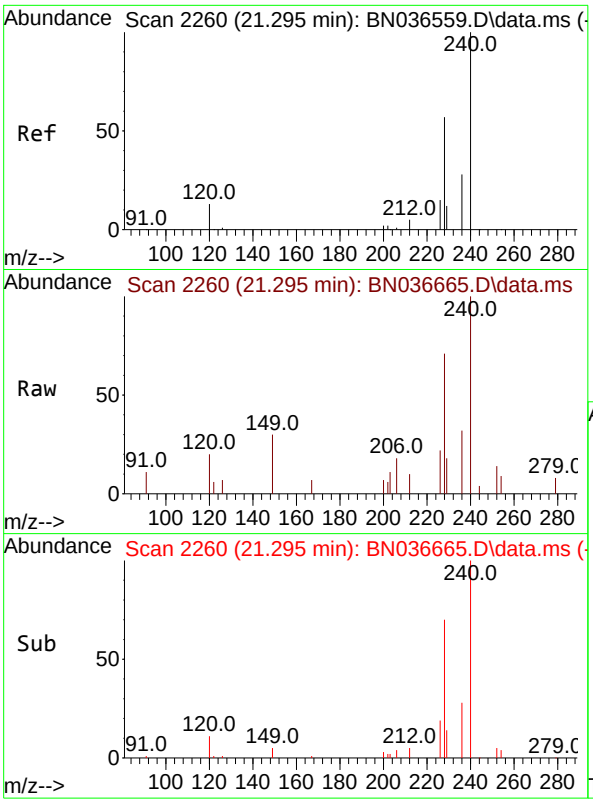


#28
Fluoranthene
Concen: 0.383 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:202 Resp: 4249

Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.4	14.0
203	16.8	13.5	20.3

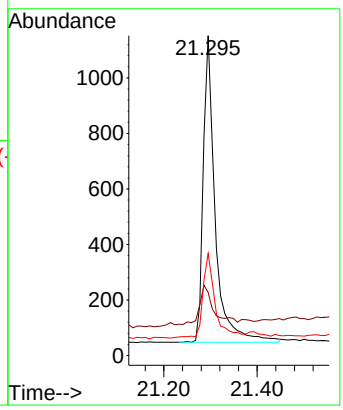




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:240 Resp: 197

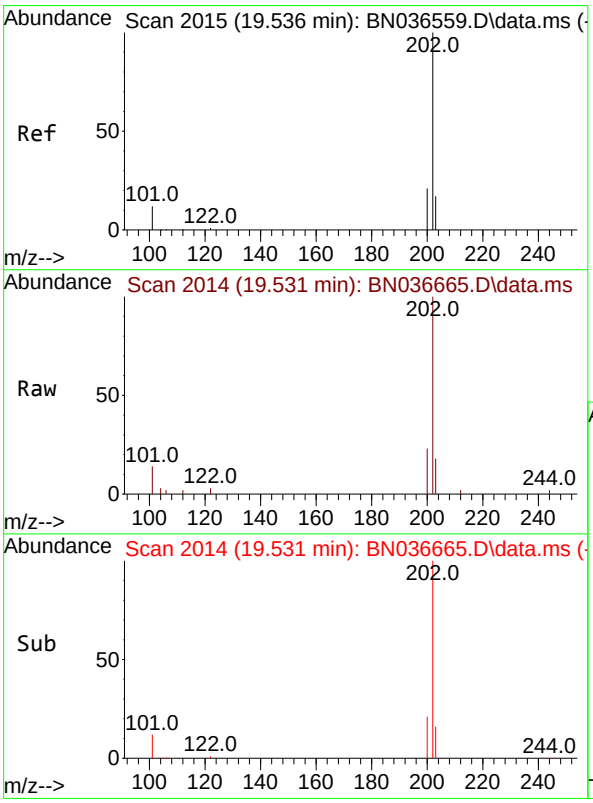
Ion	Ratio	Lower	Upper
240	100		
120	19.7	14.6	22.0
236	31.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

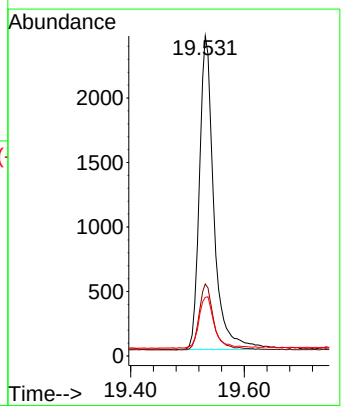
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

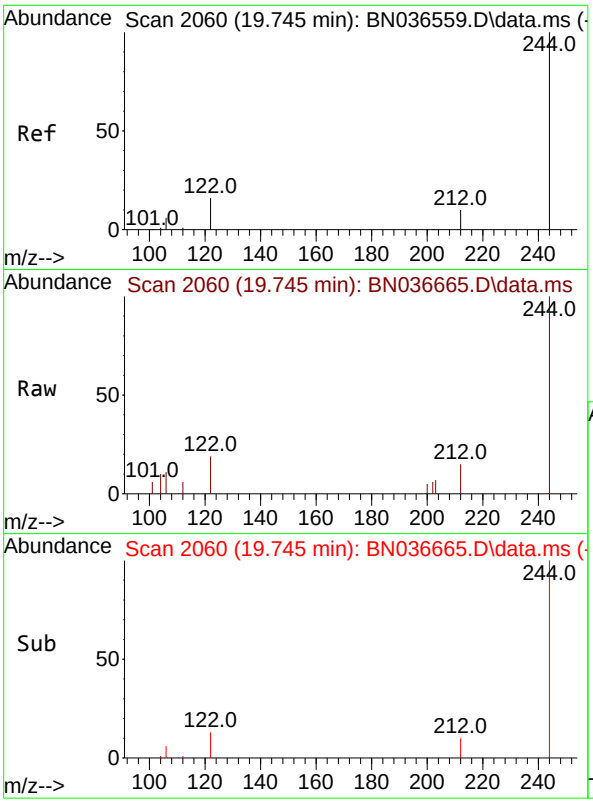


#30
Pyrene
Concen: 0.446 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:202 Resp: 4301

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.1	25.7
203	17.3	14.1	21.1

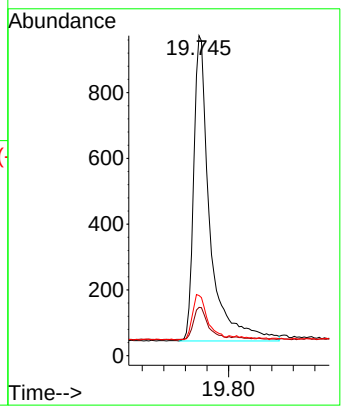




#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:244 Resp: 193

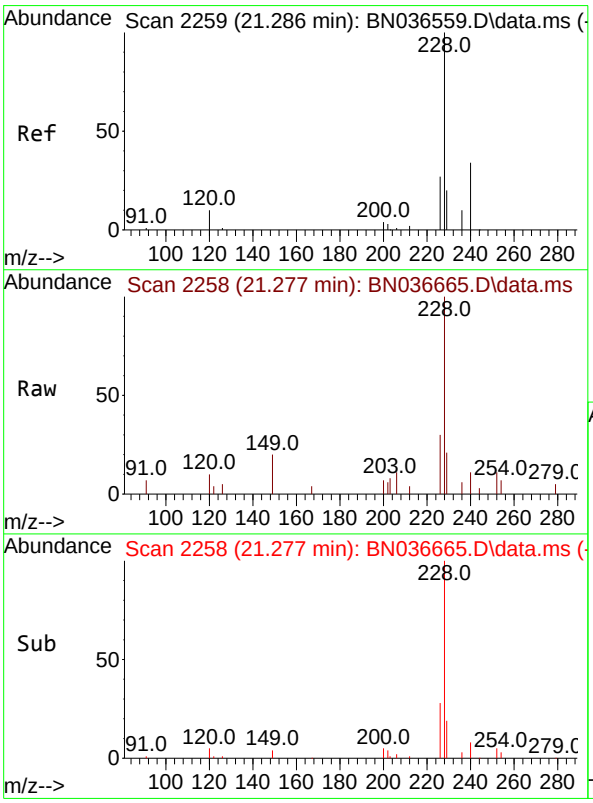
Ion	Ratio	Lower	Upper
244	100		
212	15.1	9.6	14.4
122	18.8	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

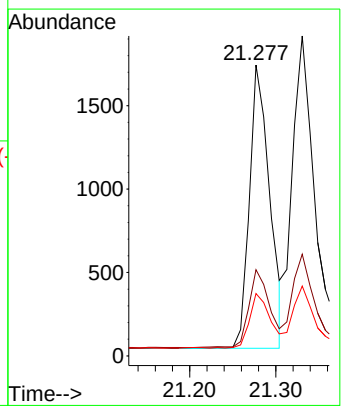
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

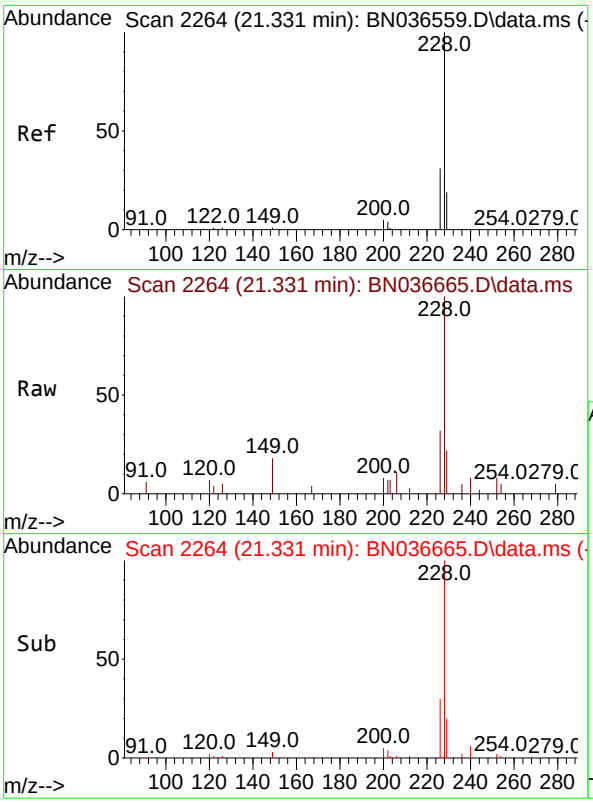


#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:228 Resp: 2770

Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.5	33.7
229	21.5	16.6	25.0

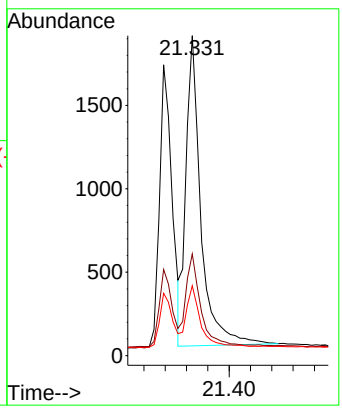




#33
Chrysene
Concen: 0.481 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:228 Resp: 360

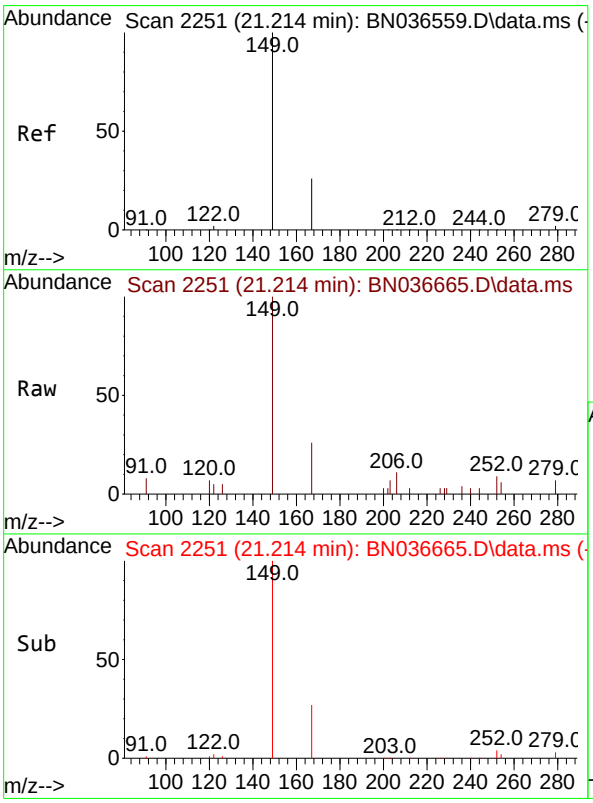
Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.3	37.9
229	21.8	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

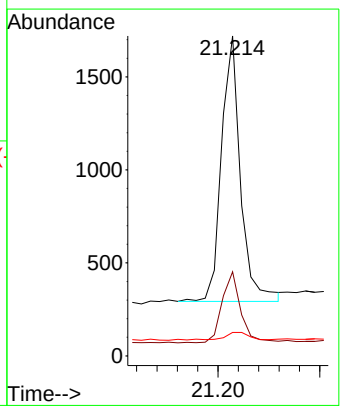
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

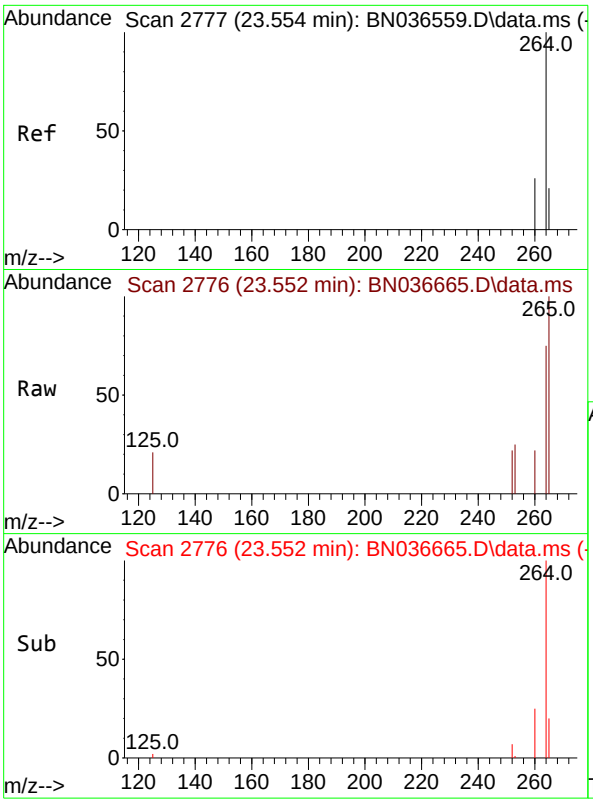


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:149 Resp: 1852

Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.7	31.1
279	3.4	3.6	5.4#

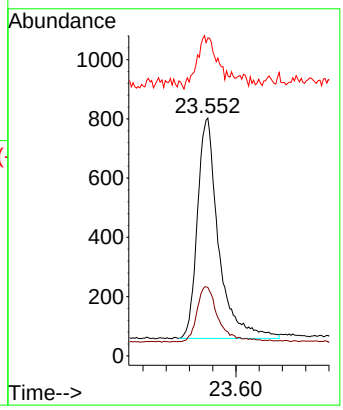




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:264 Resp: 187

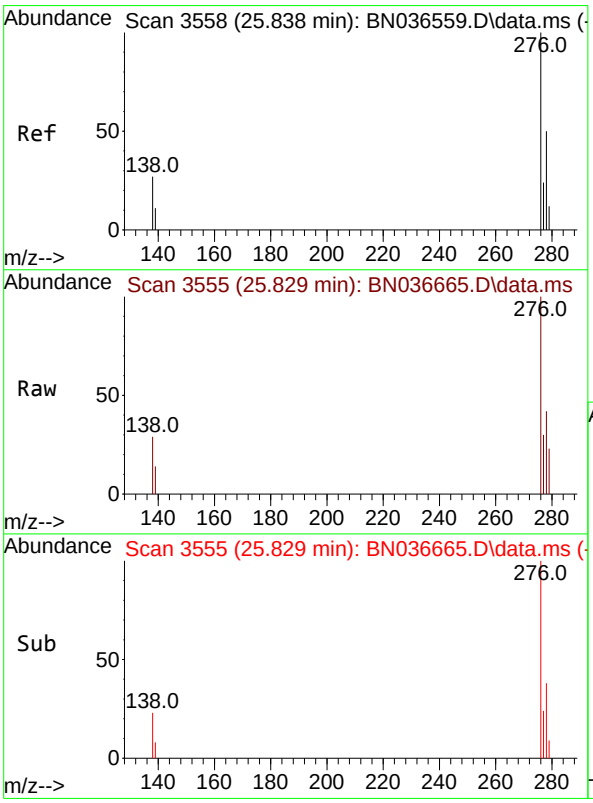
Ion	Ratio	Lower	Upper
264	100		
260	28.8	22.6	33.8
265	133.6	88.1	132.1#



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
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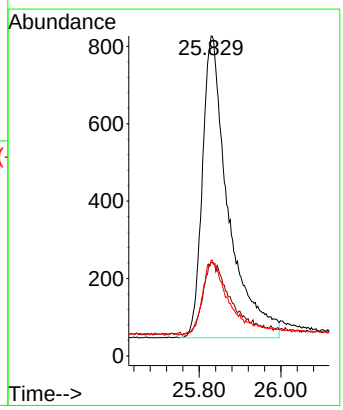
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

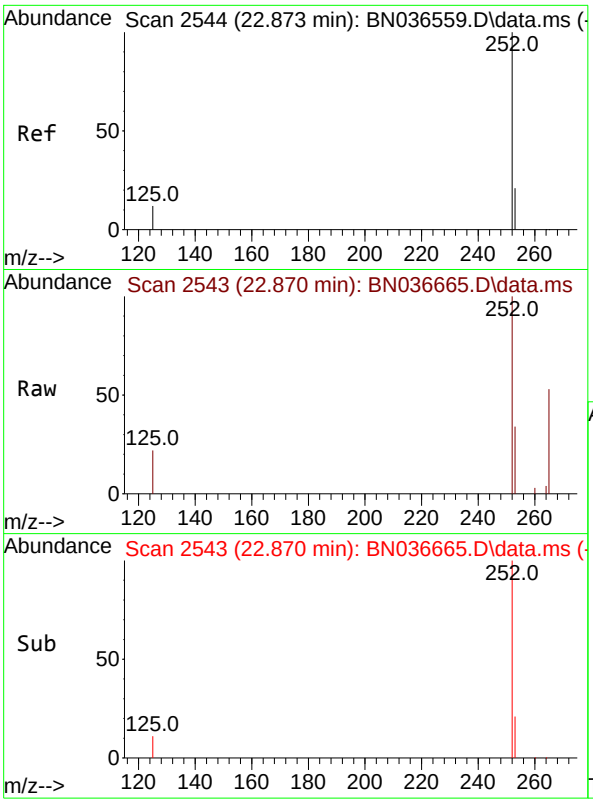


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.506 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:276 Resp: 3428

Ion	Ratio	Lower	Upper
276	100		
138	22.7	23.4	35.2#
277	22.8	20.0	30.0

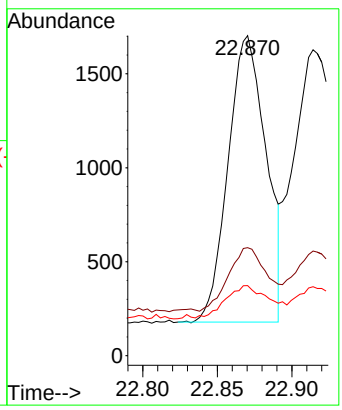




#37
Benzo(b)fluoranthene
Concen: 0.395 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:252 Resp: 270

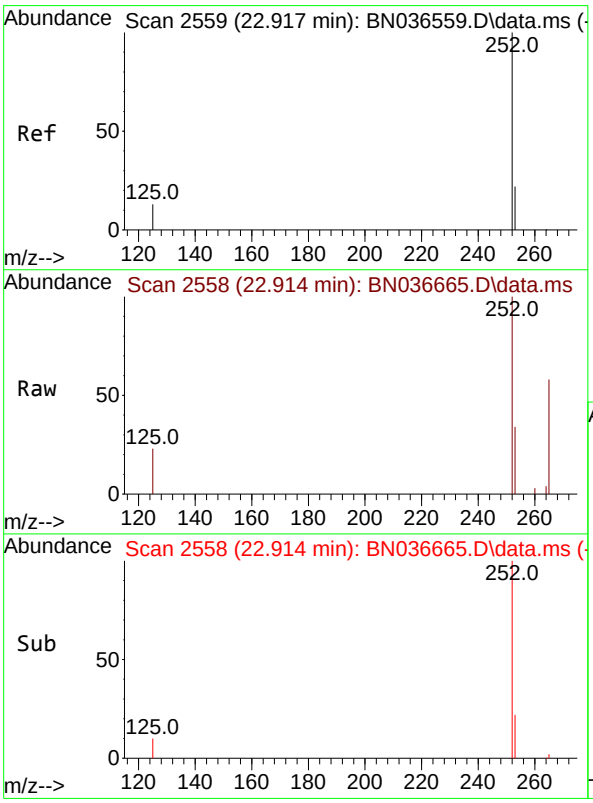
Ion	Ratio	Lower	Upper
252	100		
253	33.8	23.9	35.9
125	21.9	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
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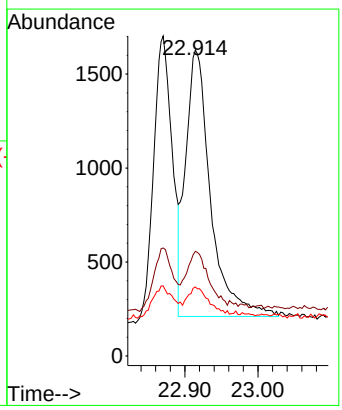
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

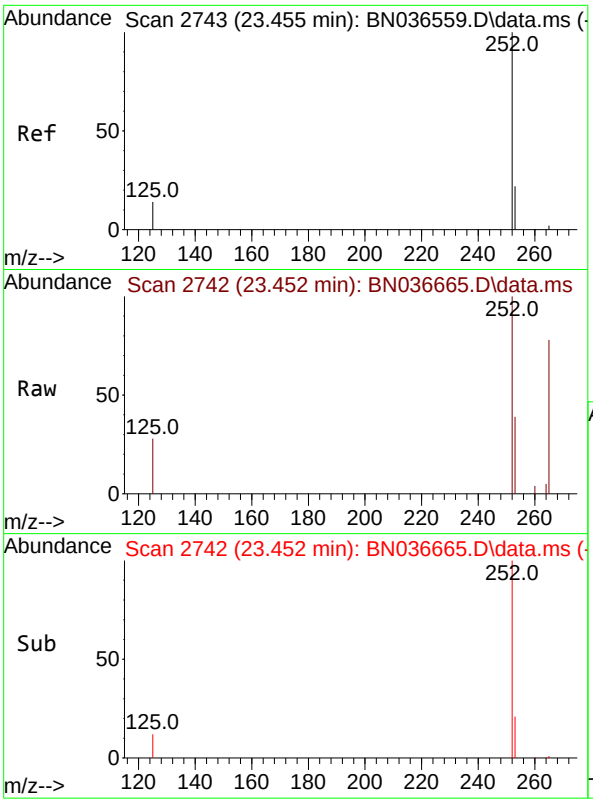


#38
Benzo(k)fluoranthene
Concen: 0.470 ng m
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:252 Resp: 3373

Ion	Ratio	Lower	Upper
252	100		
253	34.2	24.6	36.8
125	22.5	17.8	26.8

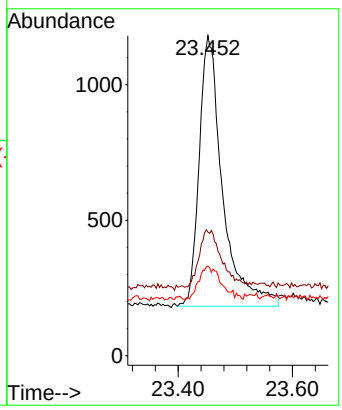




#39
Benzo(a)pyrene
Concen: 0.493 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:252 Resp: 283

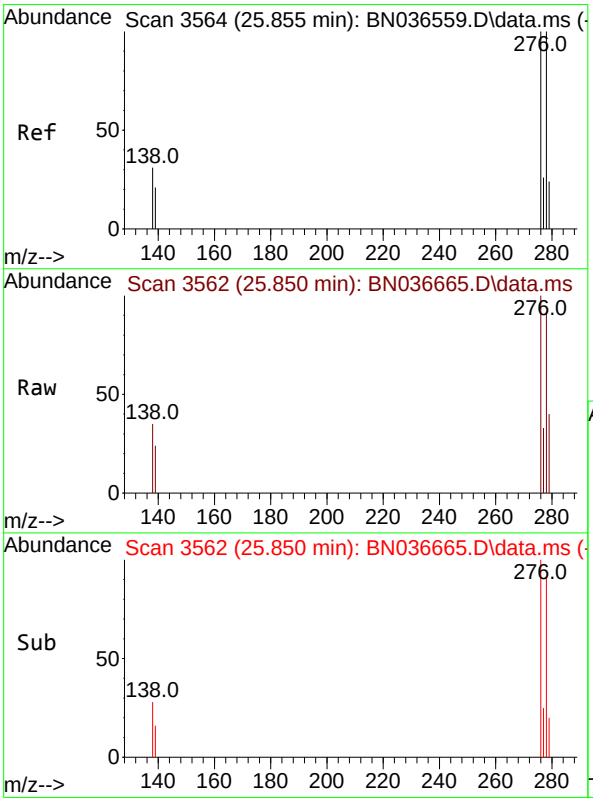
Ion	Ratio	Lower	Upper
252	100		
253	38.6	27.8	41.8
125	28.0	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
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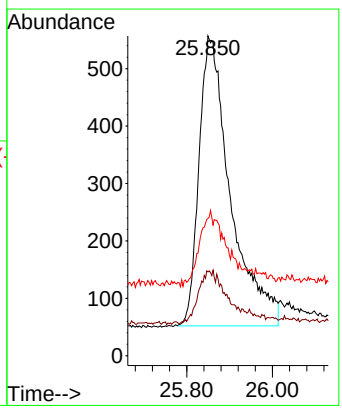
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

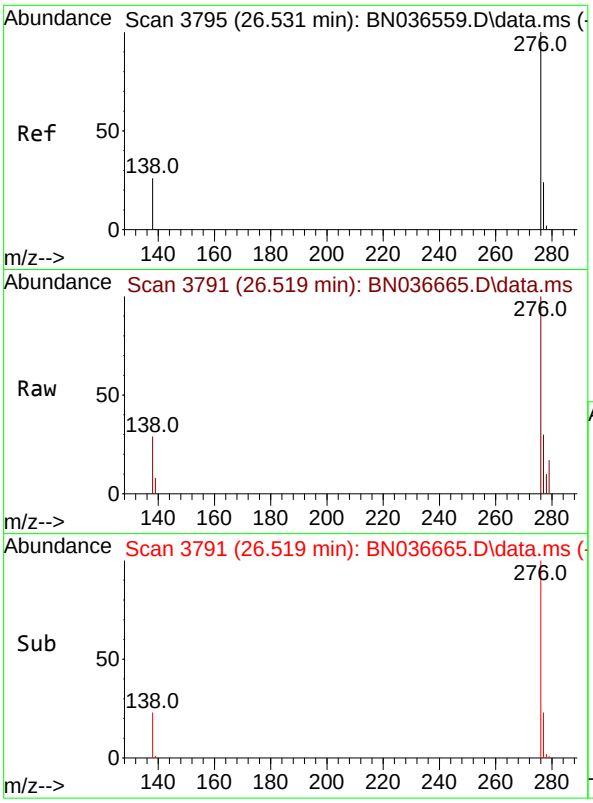


#40
Dibenzo(a,h)anthracene
Concen: 0.489 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:278 Resp: 2578

Ion	Ratio	Lower	Upper
278	100		
139	26.2	20.8	31.2
279	42.9	28.8	43.2

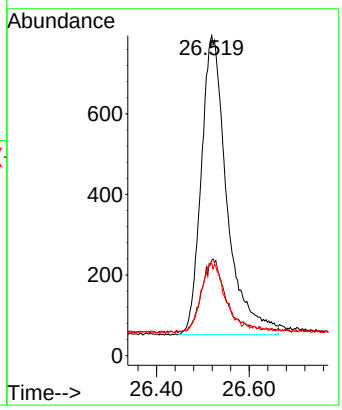




#41
Benzo(g,h,i)perylene
Concen: 0.473 ng
RT: 26.519 min Scan# 3
Delta R.T. -0.011 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:276 Resp: 285

Ion	Ratio	Lower	Upper
276	100		
277	29.8	22.2	33.4
138	28.8	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167159BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

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:	PB167159BSD	SDG No.:	Q1582
Lab Sample ID:	PB167159BSD	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
BN036680.D	1	03/17/25 08:48	03/18/25 04:16	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1800	7.717				
1146-65-2	Naphthalene-d8	4270	10.498				
15067-26-2	Acenaphthene-d10	2250	14.355				
1517-22-2	Phenanthrene-d10	4160	17.099				
1719-03-5	Chrysene-d12	2620	21.295				
1520-96-3	Perylene-d12	2260	23.543				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036680.D
Acq On : 18 Mar 2025 04:16
Operator : RC/JU
Sample : PB167159BSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 18 05:22:27 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 :
PB167159BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1799	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4271	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2251	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	4157	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	2623	0.400	ng	0.00
35) Perylene-d12	23.543	264	2261	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1820	0.434	ng	0.00
5) Phenol-d6	6.886	99	2092	0.404	ng	-0.01
8) Nitrobenzene-d5	8.864	82	1743	0.375	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2512m	0.395	ng	-0.02
14) 2,4,6-Tribromophenol	15.858	330	376	0.368	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	5679	0.434	ng	-0.01
27) Fluoranthene-d10	19.136	212	4030	0.378	ng	0.00
31) Terphenyl-d14	19.740	244	2694	0.429	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	760	0.381	ng	# 30
3) n-Nitrosodimethylamine	3.543	42	1942	0.481	ng	# 87
6) bis(2-Chloroethyl)ether	7.139	93	2145	0.401	ng	98
9) Naphthalene	10.551	128	5272	0.420	ng	100
10) Hexachlorobutadiene	10.840	225	1272	0.430	ng	# 97
12) 2-Methylnaphthalene	12.172	142	3367	0.421	ng	99
16) Acenaphthylene	14.067	152	4978	0.469	ng	99
17) Acenaphthene	14.420	154	3108	0.447	ng	99
18) Fluorene	15.403	166	4054	0.431	ng	99
20) 4,6-Dinitro-2-methylph...	15.499	198	311	0.439	ng	85
21) 4-Bromophenyl-phenylether	16.304	248	1135	0.436	ng	# 82
22) Hexachlorobenzene	16.416	284	1408	0.448	ng	94
23) Atrazine	16.577	200	1005	0.481	ng	95
24) Pentachlorophenol	16.764	266	942	0.657	ng	98
25) Phenanthrene	17.136	178	5745	0.461	ng	100
26) Anthracene	17.235	178	5301	0.471	ng	99
28) Fluoranthene	19.164	202	5883	0.420	ng	98
30) Pyrene	19.527	202	6026	0.470	ng	100
32) Benzo(a)anthracene	21.277	228	3958	0.434	ng	99
33) Chrysene	21.331	228	4801	0.482	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	2813	0.433	ng	97
36) Indeno(1,2,3-cd)pyrene	25.826	276	3886	0.476	ng	96
37) Benzo(b)fluoranthene	22.864	252	3639	0.442	ng	97
38) Benzo(k)fluoranthene	22.908	252	4167m	0.483	ng	
39) Benzo(a)pyrene	23.446	252	3391	0.489	ng	96
40) Dibenzo(a,h)anthracene	25.846	278	3209	0.505	ng	95
41) Benzo(g,h,i)perylene	26.516	276	3330	0.458	ng	98

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

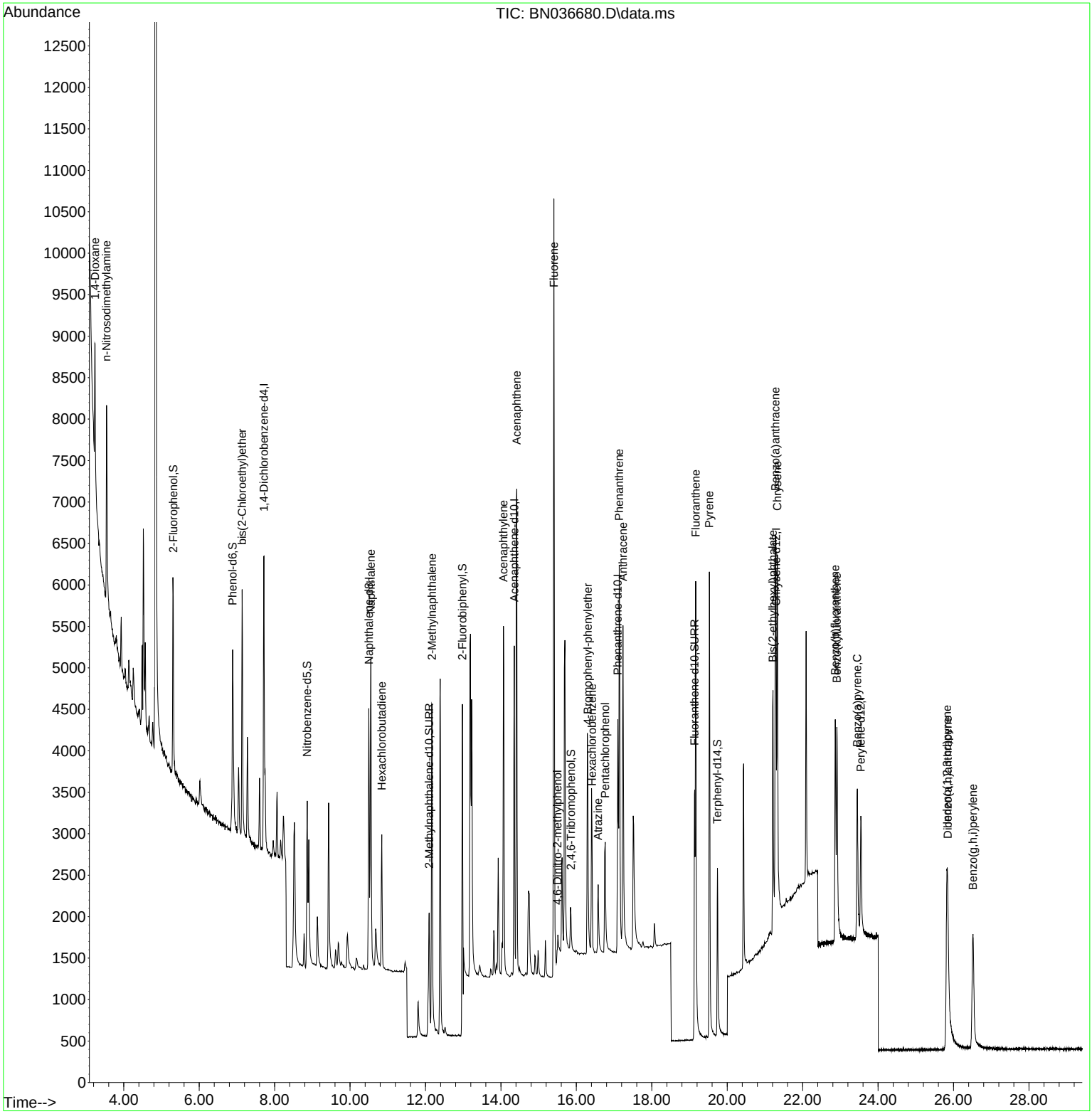
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Data File : BN036680.D
Acq On : 18 Mar 2025 04:16
Operator : RC/JU
Sample : PB167159BSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

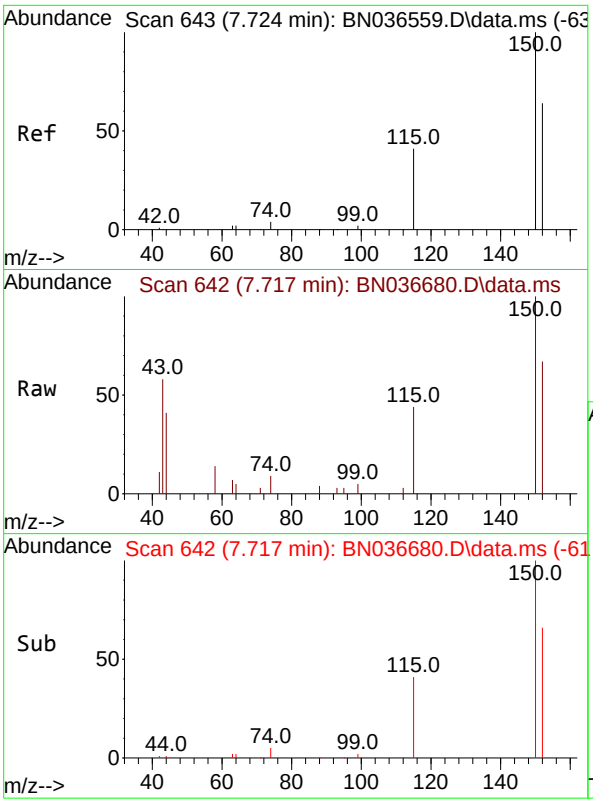
Quant Time: Mar 18 05:22:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
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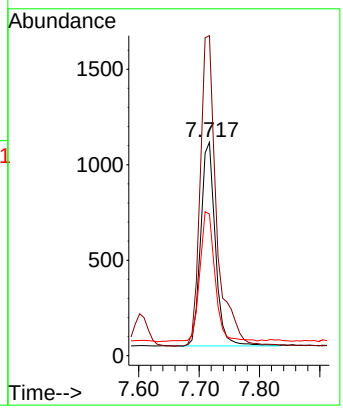




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:152 Resp: 179

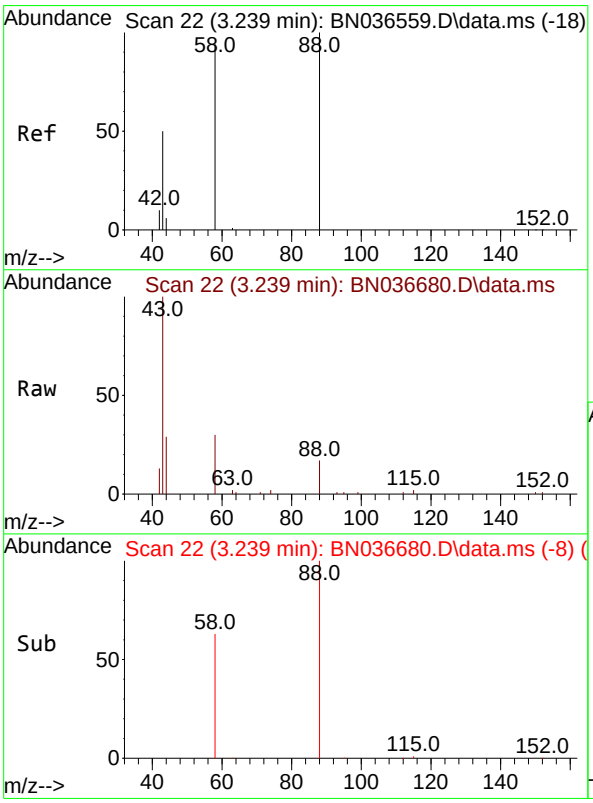
Ion	Ratio	Lower	Upper
152	100		
150	149.9	123.7	185.5
115	66.4	54.3	81.5



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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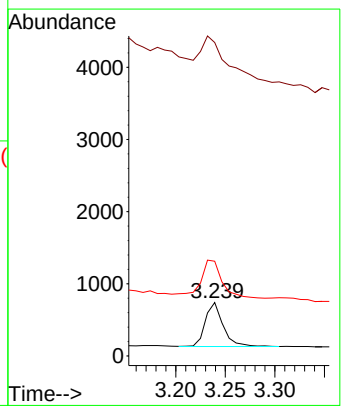
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

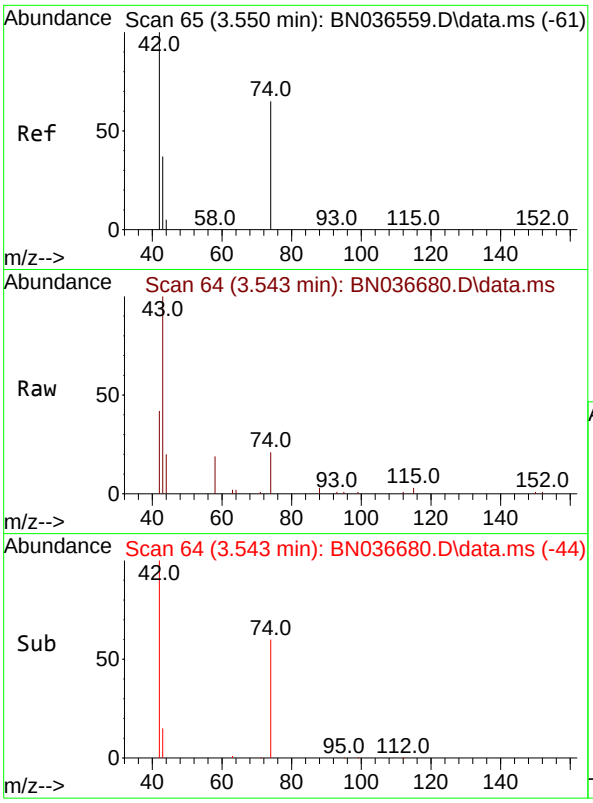


#2
1,4-Dioxane
Concen: 0.381 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 88 Resp: 760

Ion	Ratio	Lower	Upper
88	100		
43	153.4	37.8	56.8#
58	102.4	67.4	101.2#

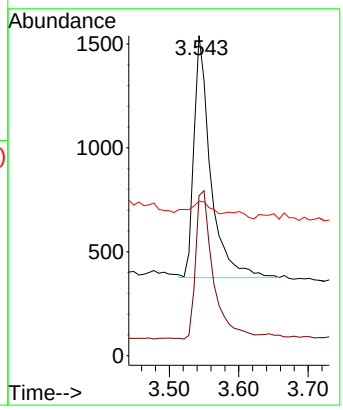




#3
n-Nitrosodimethylamine
Concen: 0.481 ng
RT: 3.543 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 42 Resp: 194

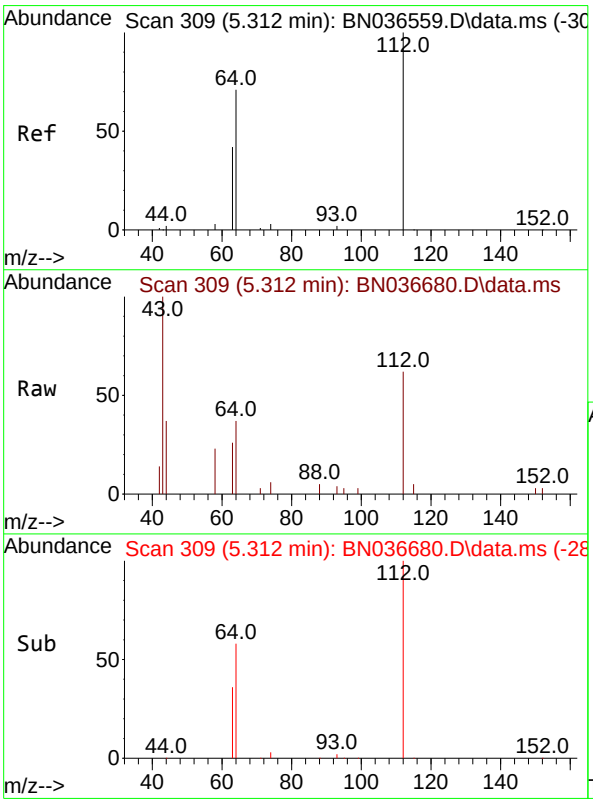
Ion	Ratio	Lower	Upper
42	100		
74	64.5	60.6	90.8
44	5.4	6.3	9.5



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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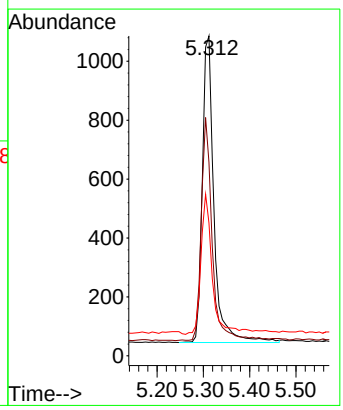
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

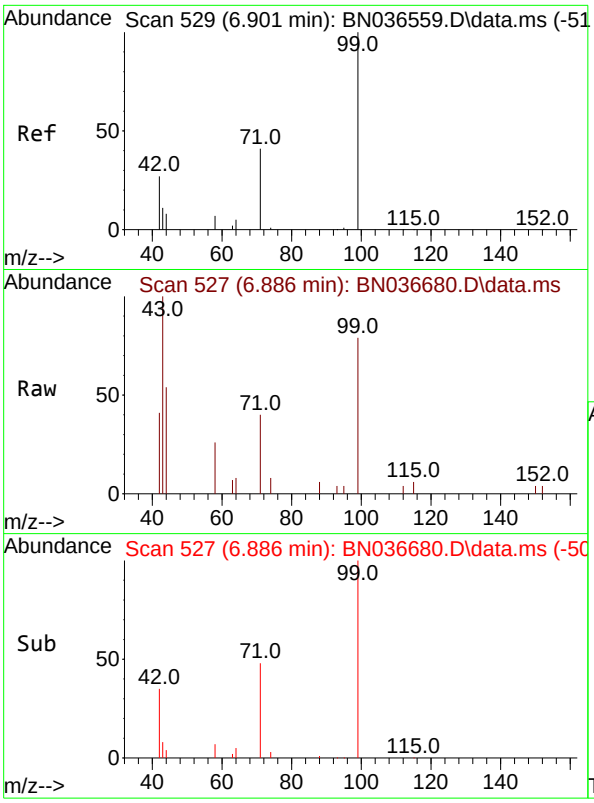


#4
2-Fluorophenol
Concen: 0.434 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:112 Resp: 1820

Ion	Ratio	Lower	Upper
112	100		
64	67.6	53.1	79.7
63	43.4	31.8	47.8





#5
Phenol-d6
Concen: 0.404 ng
RT: 6.886 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

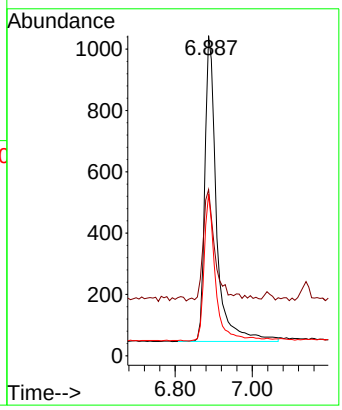
Tgt Ion: 99 Resp: 209

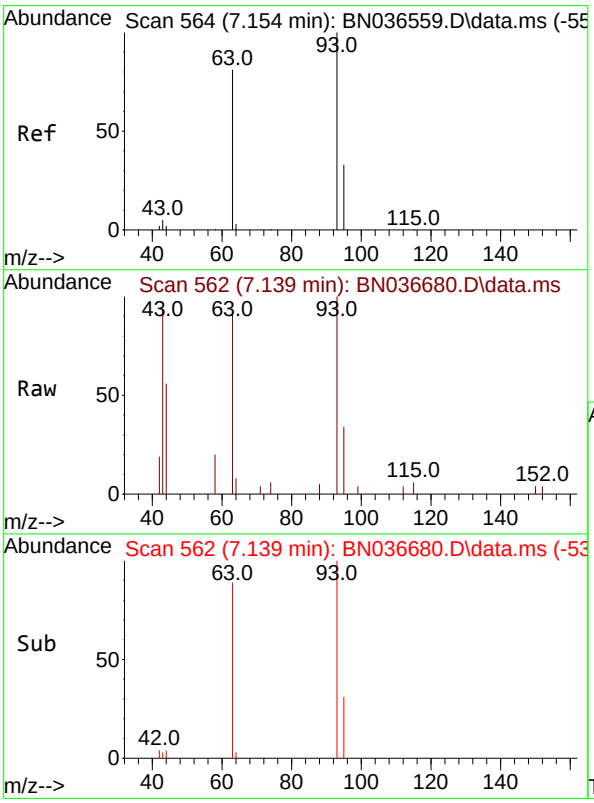
Ion	Ratio	Lower	Upper
99	100		
42	36.4	26.5	39.7
71	45.5	34.1	51.1

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

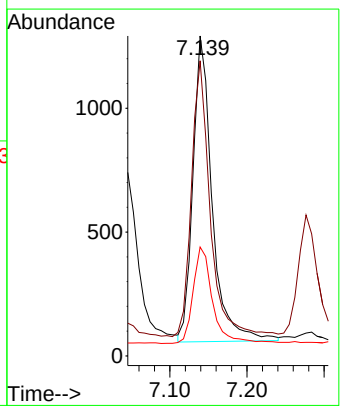


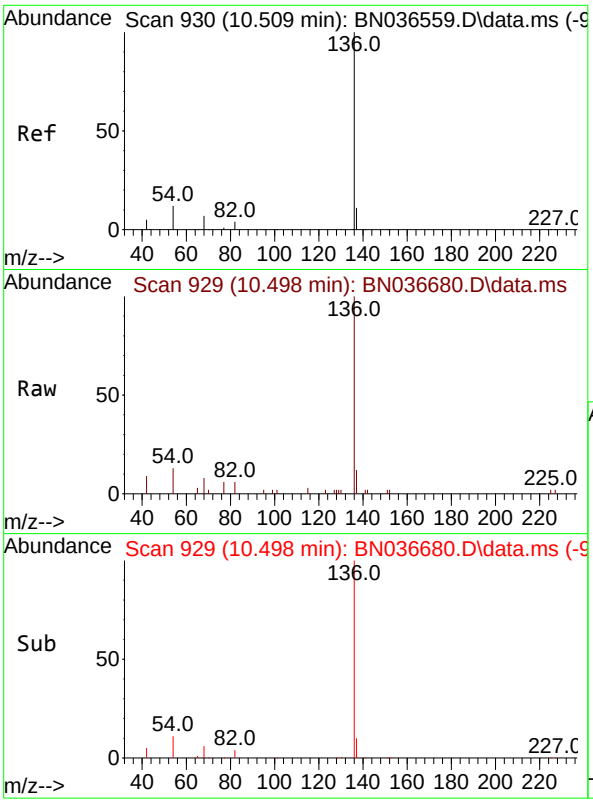


#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 93 Resp: 2145

Ion	Ratio	Lower	Upper
93	100		
63	87.1	67.7	101.5
95	32.2	25.6	38.4

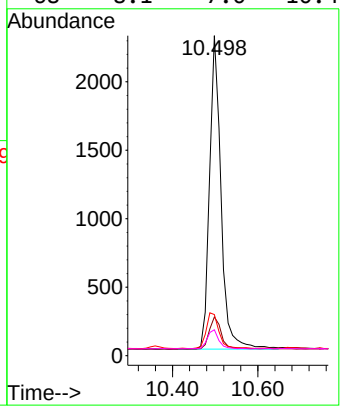




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:136 Resp: 427

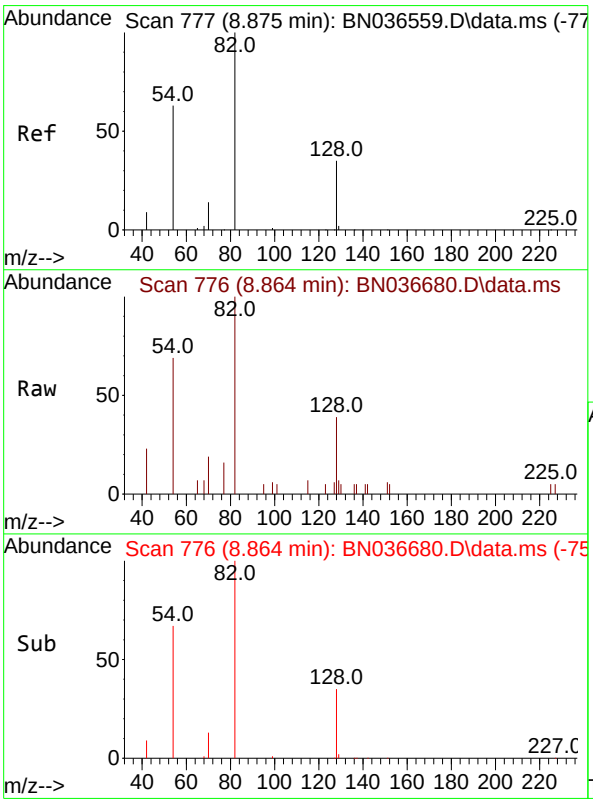
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	12.9	11.5	17.3
68	8.1	7.0	10.4



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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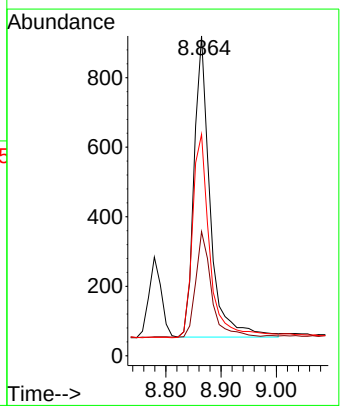
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

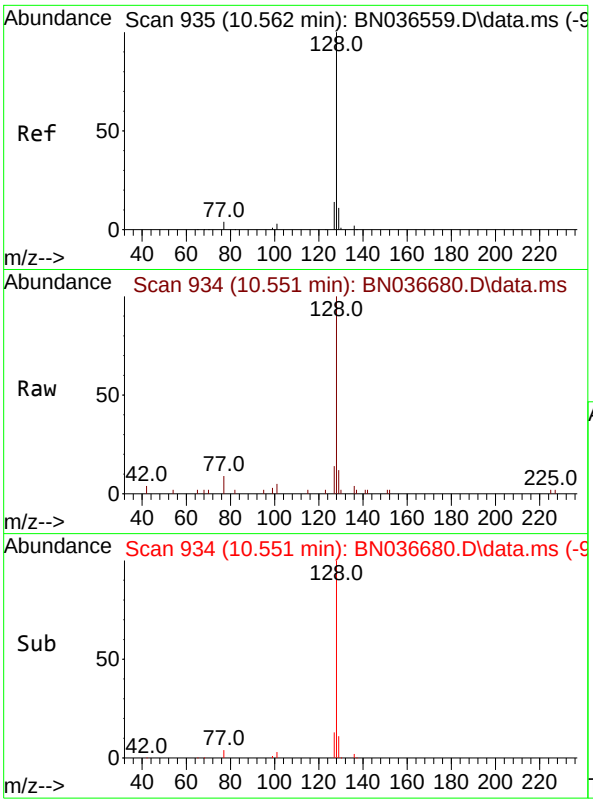


#8
Nitrobenzene-d5
Concen: 0.375 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 82 Resp: 1743

Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.6	45.8
54	69.2	52.2	78.4

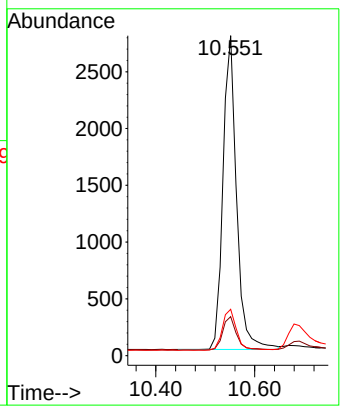




#9
Naphthalene
Concen: 0.420 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:128 Resp: 527

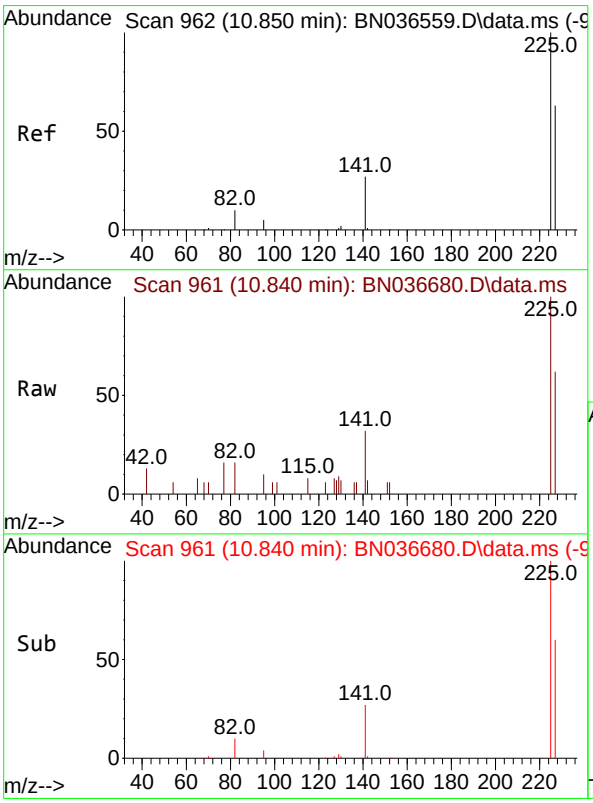
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.5	11.8	17.8



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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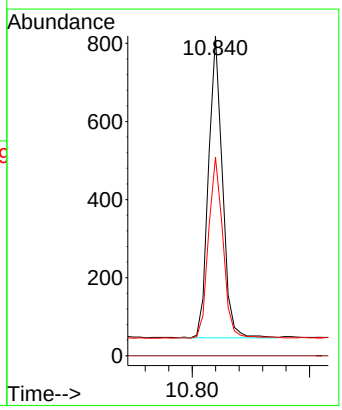
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

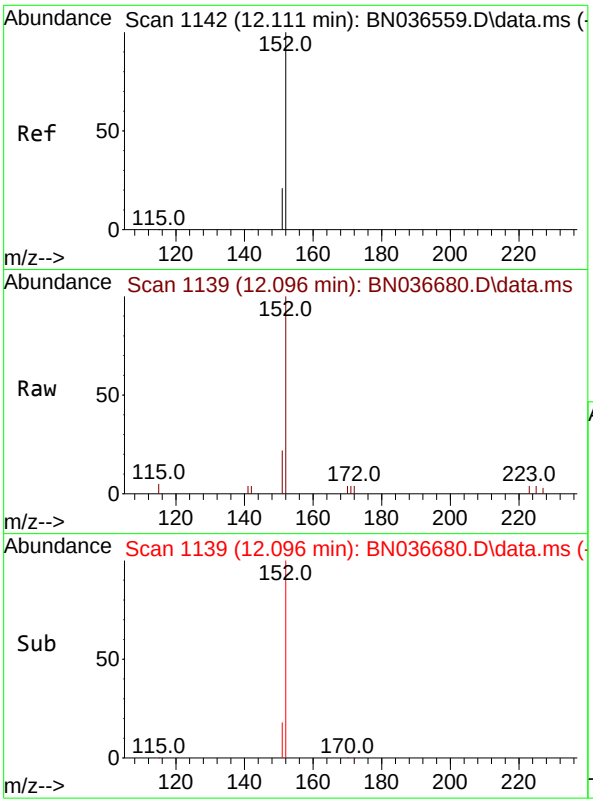


#10
Hexachlorobutadiene
Concen: 0.430 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:225 Resp: 1272

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.7	51.8	77.8

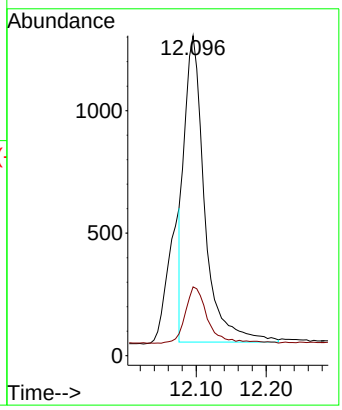




#11
2-Methylnaphthalene-d10
Concen: 0.395 ng m
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:152 Resp: 251

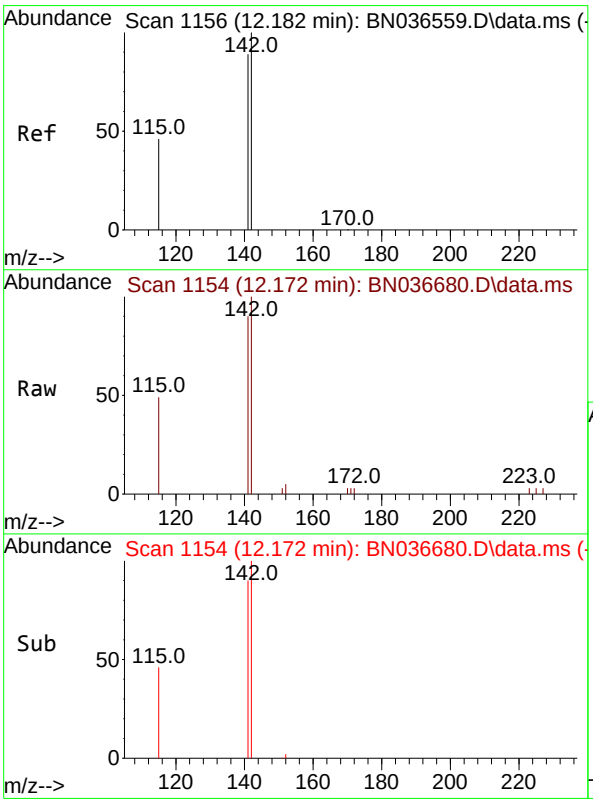
Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

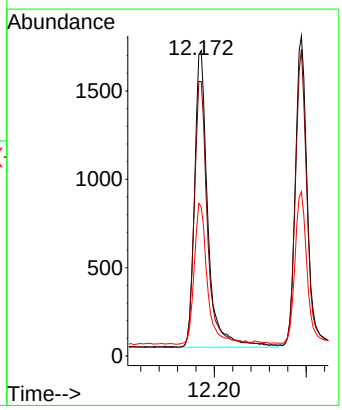
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

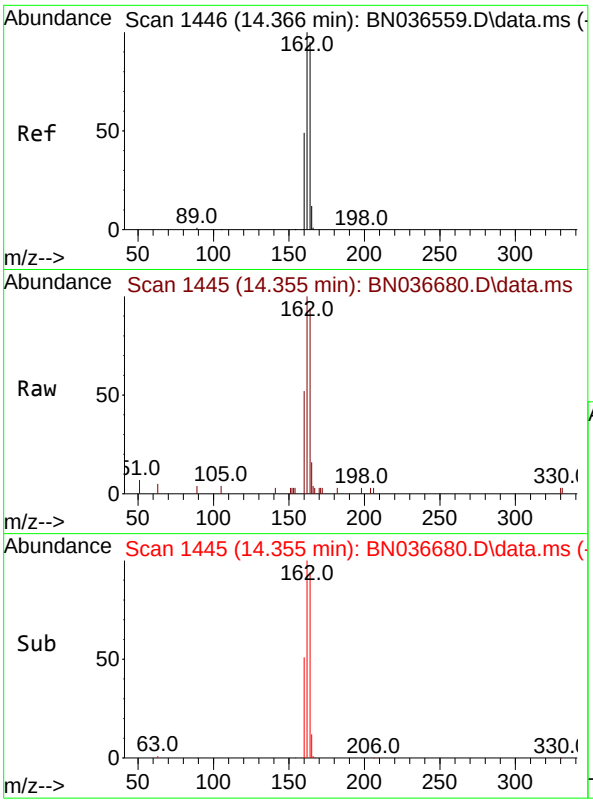


#12
2-Methylnaphthalene
Concen: 0.421 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:142 Resp: 3367

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.7	107.5
115	48.7	38.3	57.5

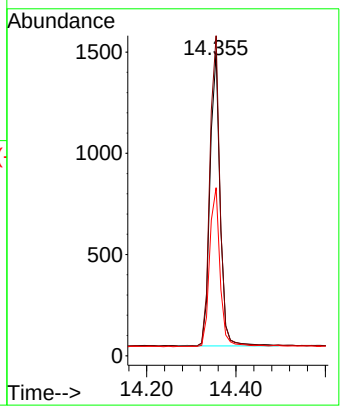




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:164 Resp: 225

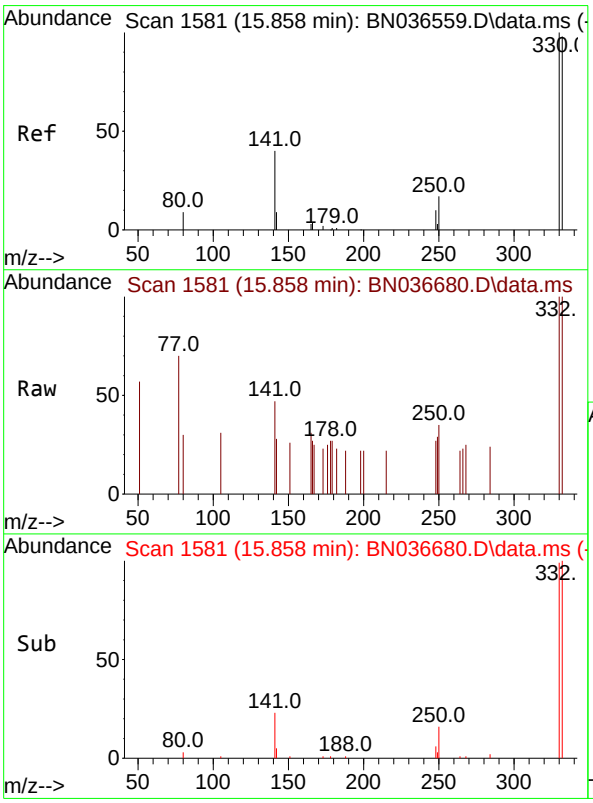
Ion	Ratio	Lower	Upper
164	100		
162	106.0	84.2	126.2
160	55.7	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations APPROVED

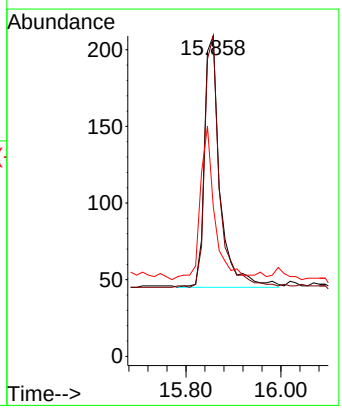
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

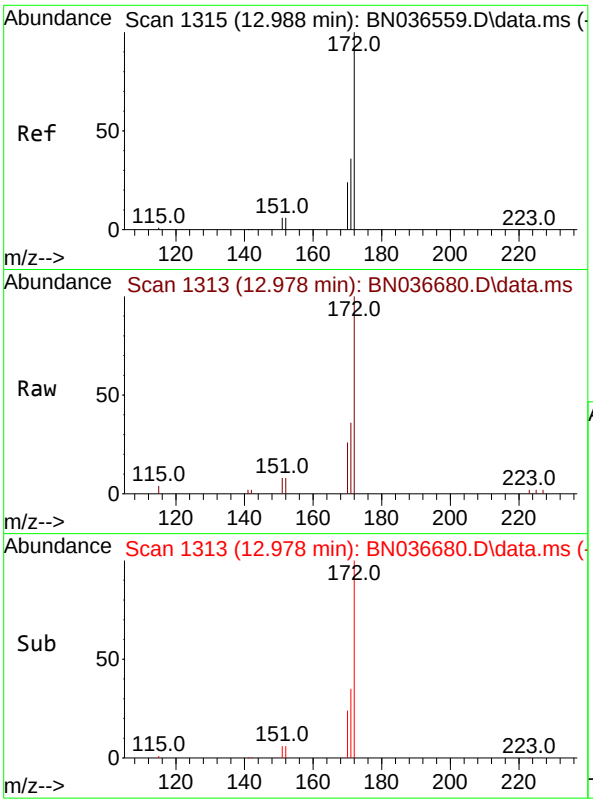


#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:330 Resp: 376

Ion	Ratio	Lower	Upper
330	100		
332	95.7	75.2	112.8
141	56.4	43.4	65.2

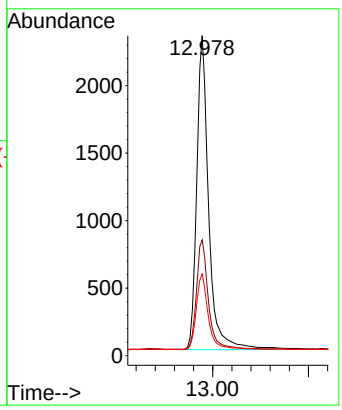




#15
2-Fluorobiphenyl
Concen: 0.434 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:172 Resp: 567

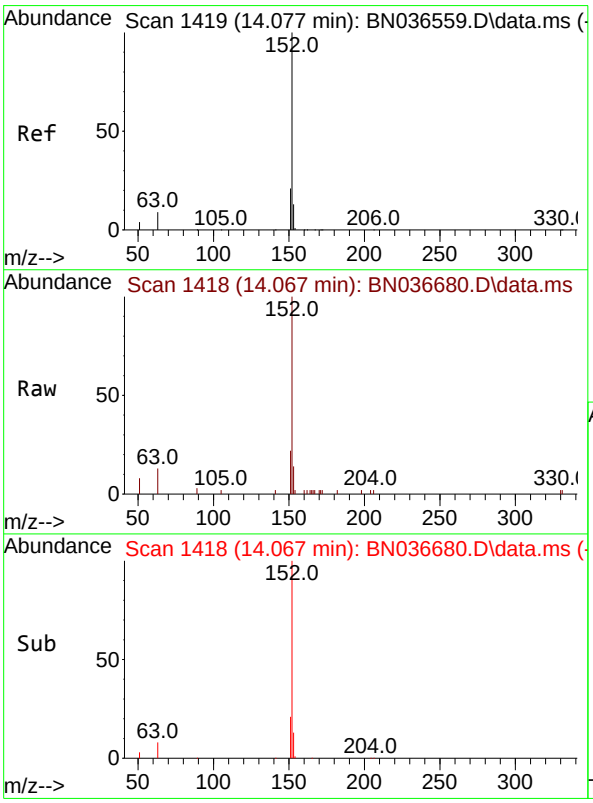
Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	25.5	20.2	30.4



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

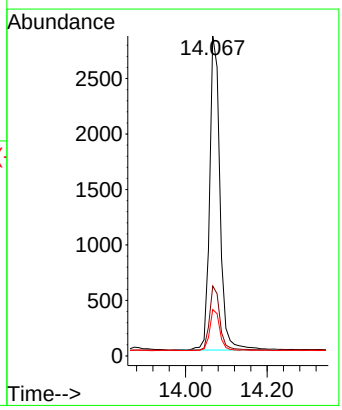
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

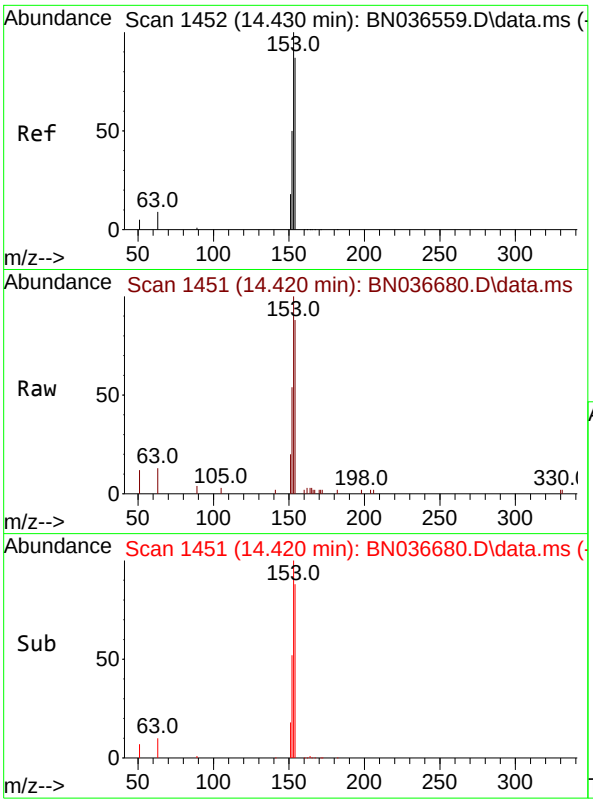


#16
Acenaphthylene
Concen: 0.469 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:152 Resp: 4978

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.4
153	13.2	10.6	15.8

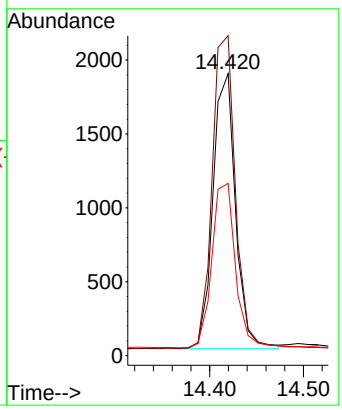




#17
Acenaphthene
Concen: 0.447 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:154 Resp: 310

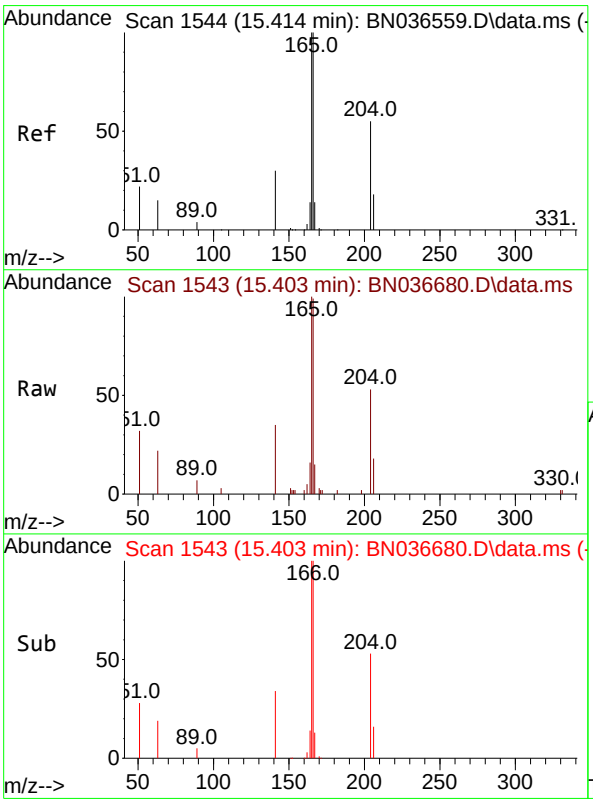
Ion	Ratio	Lower	Upper
154	100		
153	118.5	94.1	141.1
152	62.8	49.8	74.6



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

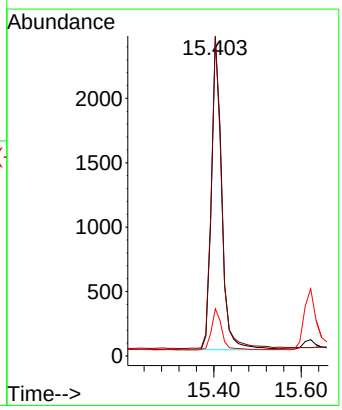
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

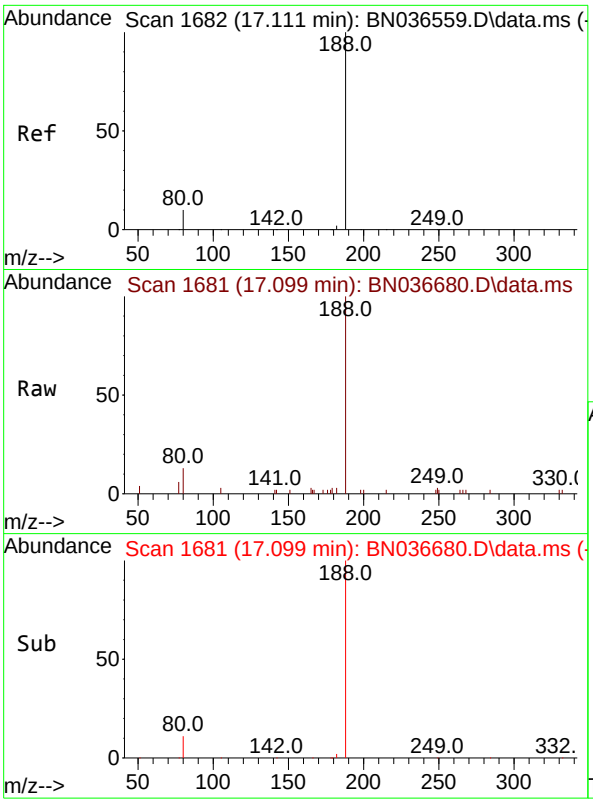


#18
Fluorene
Concen: 0.431 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:166 Resp: 4054

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.8	119.8
167	13.2	10.6	15.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

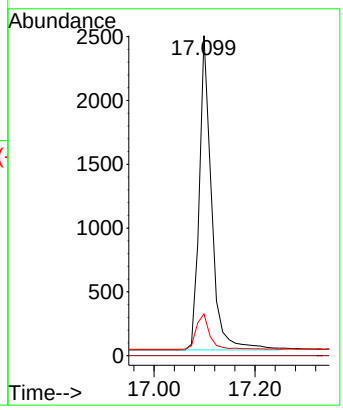
Tgt Ion:188 Resp: 415

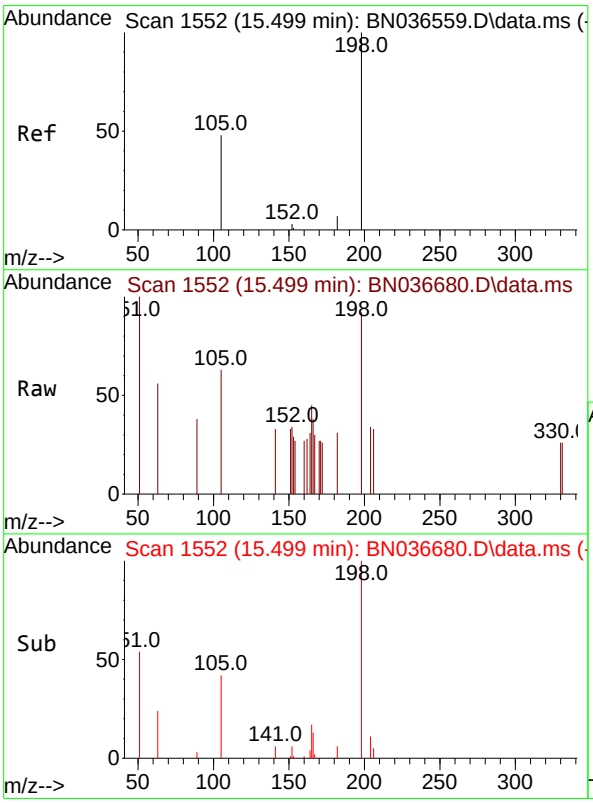
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.0	8.8	13.2

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

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Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

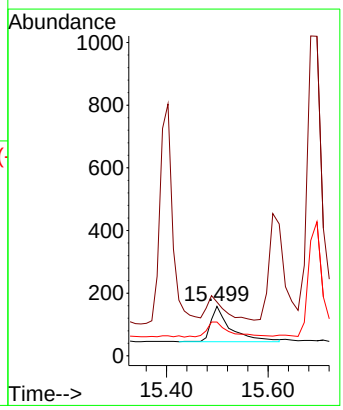


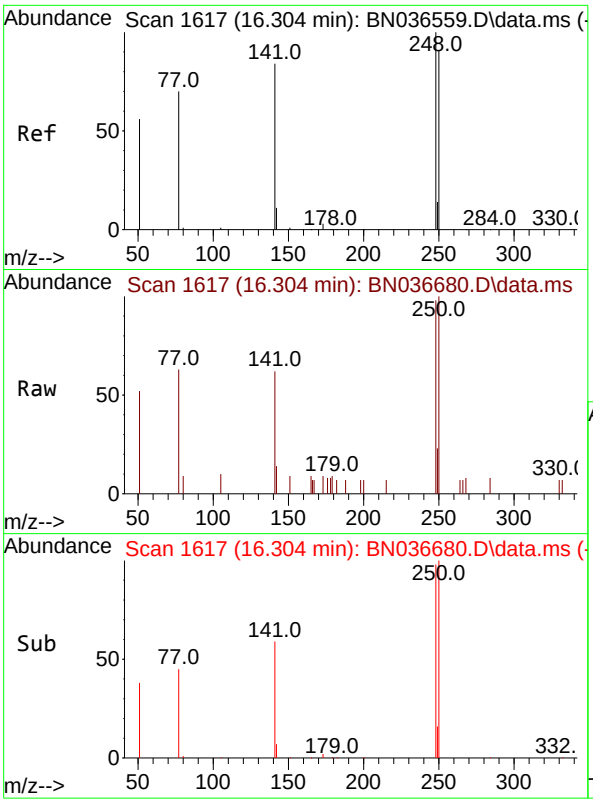


#20
4,6-Dinitro-2-methylphenol
Concen: 0.439 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:198 Resp: 311

Ion	Ratio	Lower	Upper
198	100		
51	108.9	107.9	161.9
105	68.4	56.2	84.2

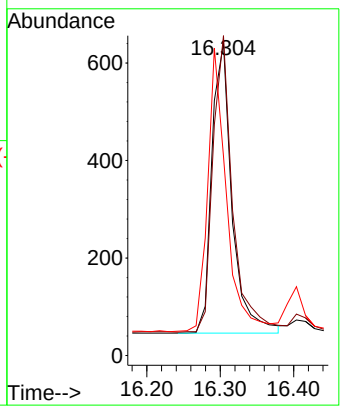




#21
4-Bromophenyl-phenylether
Concen: 0.436 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:248 Resp: 113

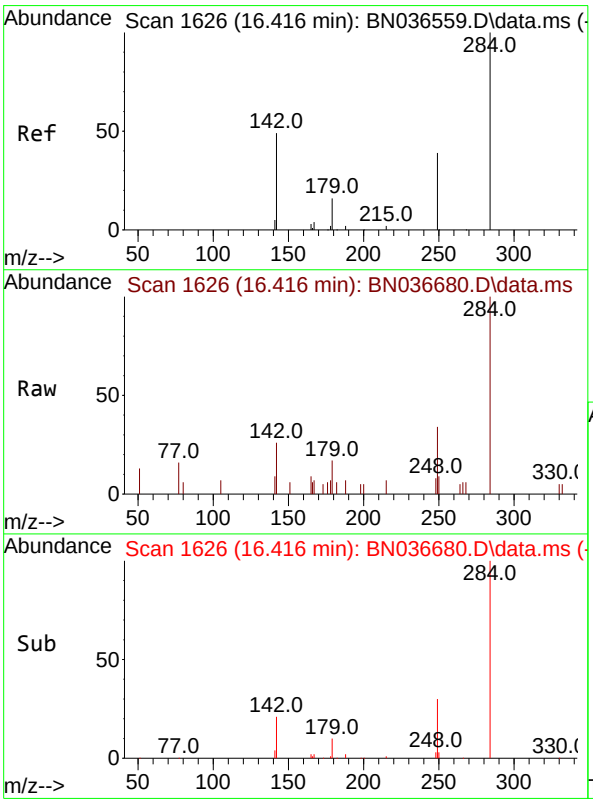
Ion	Ratio	Lower	Upper
248	100		
250	102.3	73.0	109.6
141	63.8	68.6	103.0



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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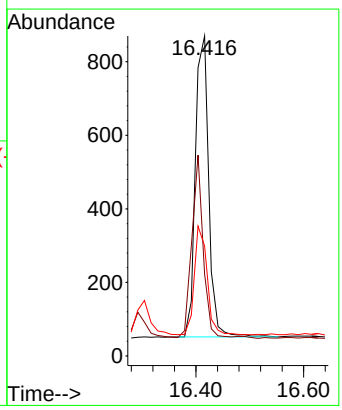
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

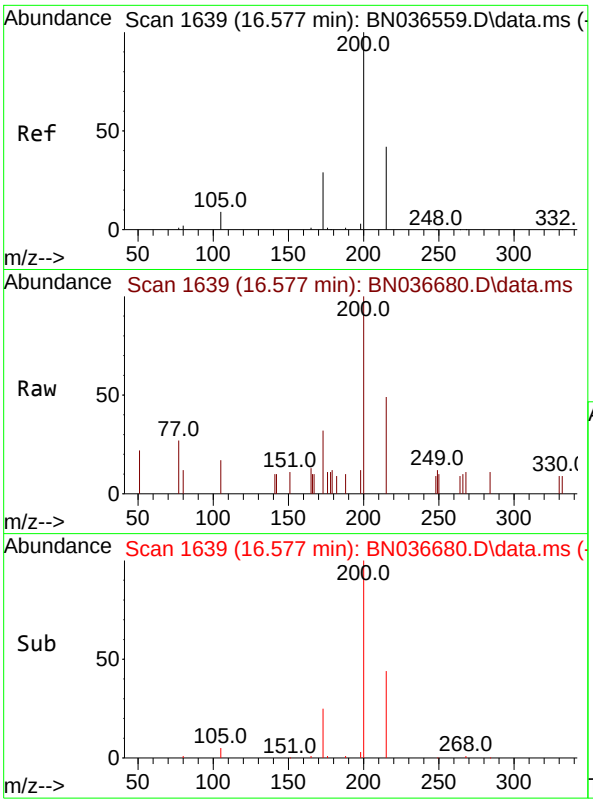


#22
Hexachlorobenzene
Concen: 0.448 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:284 Resp: 1408

Ion	Ratio	Lower	Upper
284	100		
142	52.8	37.0	55.4
249	35.0	28.1	42.1

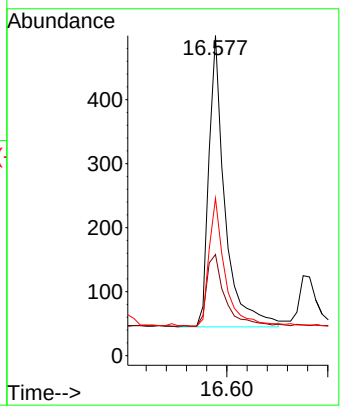




#23
Atrazine
Concen: 0.481 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:200 Resp: 100

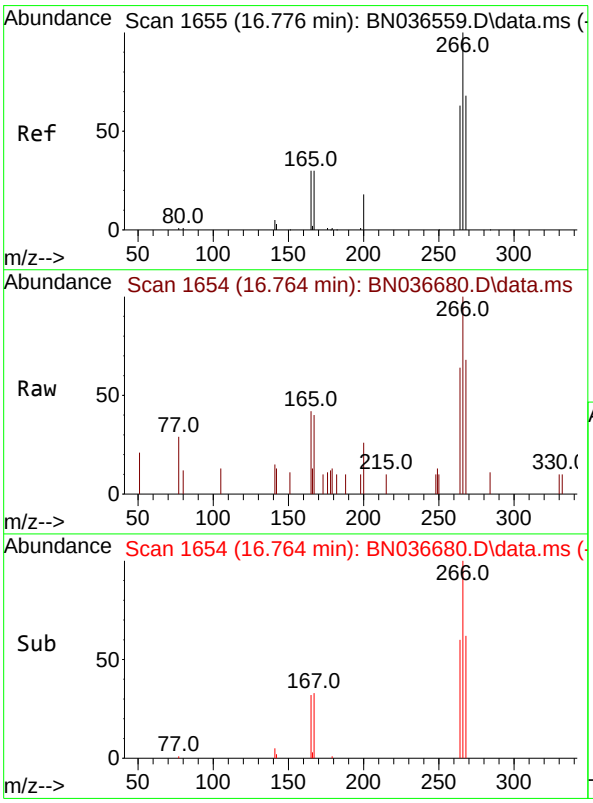
Ion	Ratio	Lower	Upper
200	100		
173	31.6	27.3	40.9
215	49.2	36.8	55.2



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

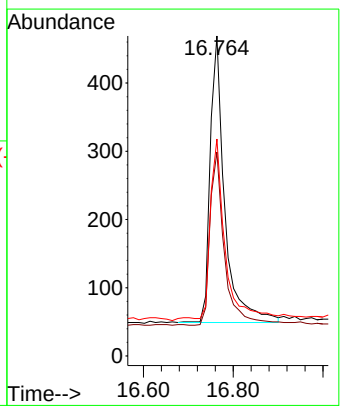
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

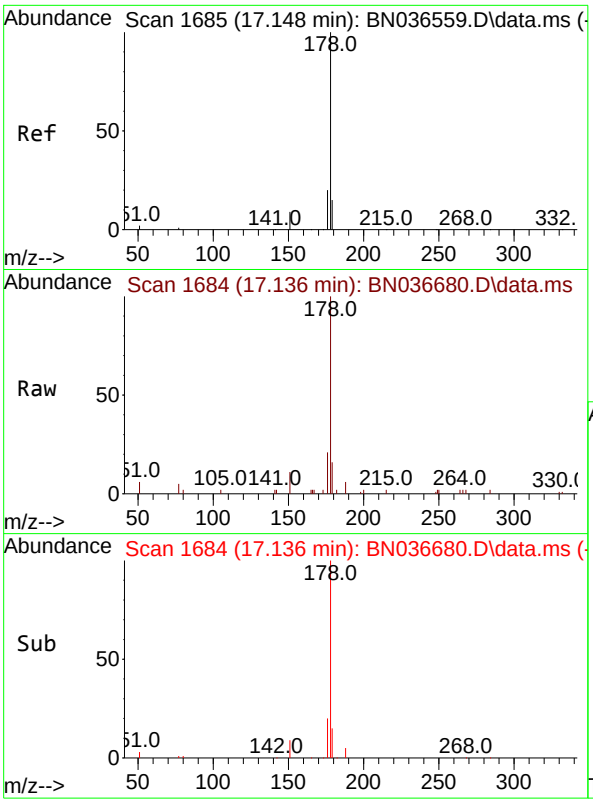


#24
Pentachlorophenol
Concen: 0.657 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:266 Resp: 942

Ion	Ratio	Lower	Upper
266	100		
264	60.7	49.6	74.4
268	61.6	50.9	76.3

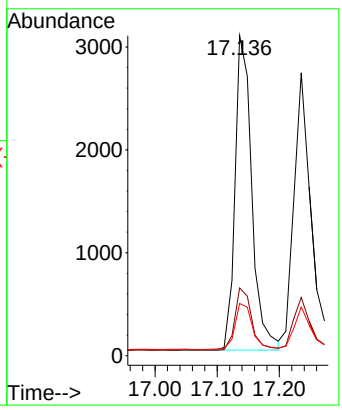




#25
Phenanthrene
Concen: 0.461 ng
RT: 17.136 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:178 Resp: 574

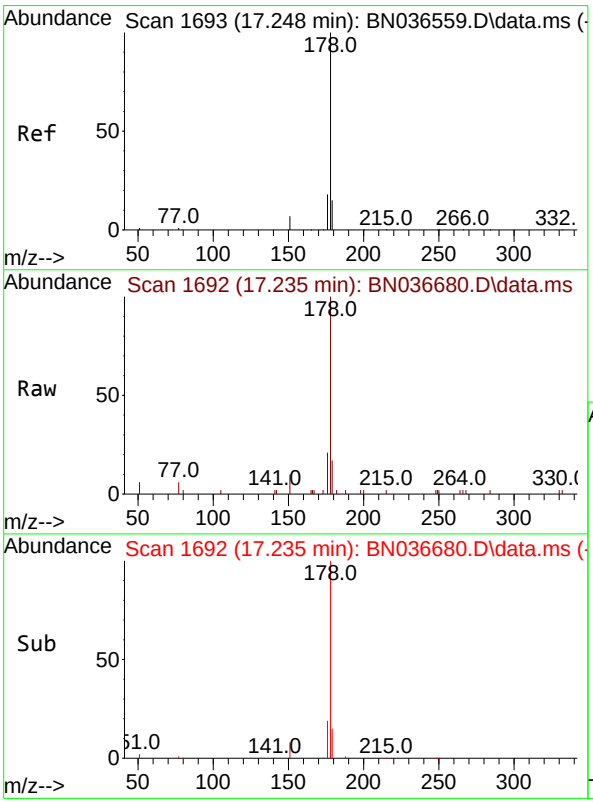
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.2	12.2	18.4



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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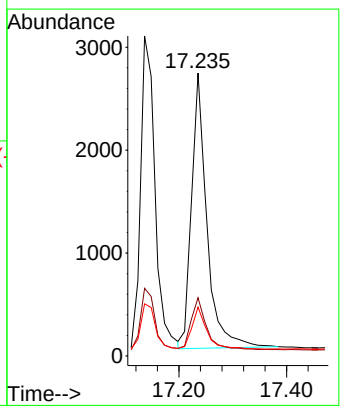
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

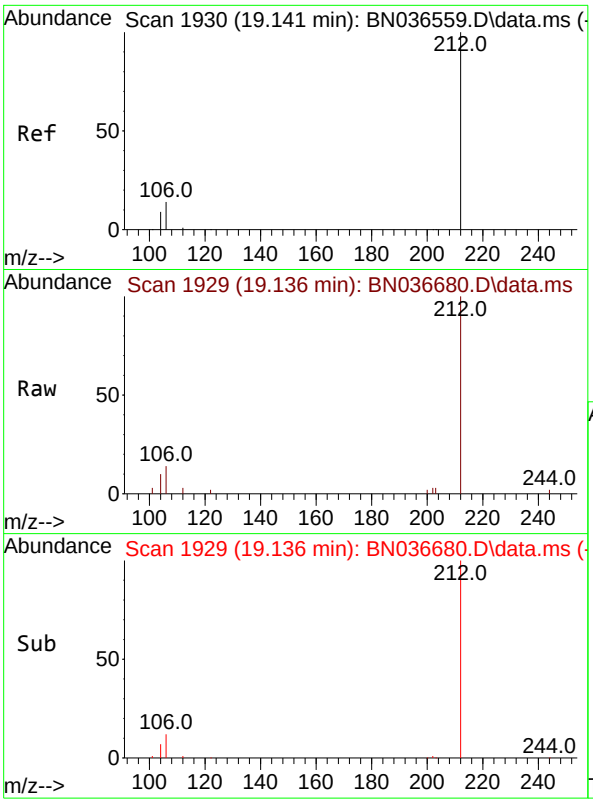


#26
Anthracene
Concen: 0.471 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:178 Resp: 5301

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.1	12.6	18.8

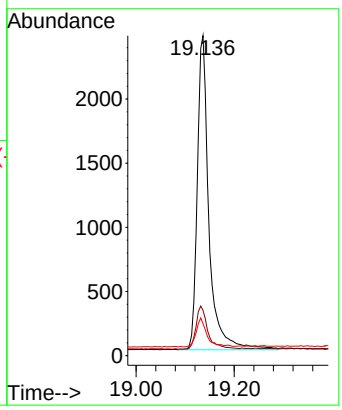




#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:212 Resp: 403

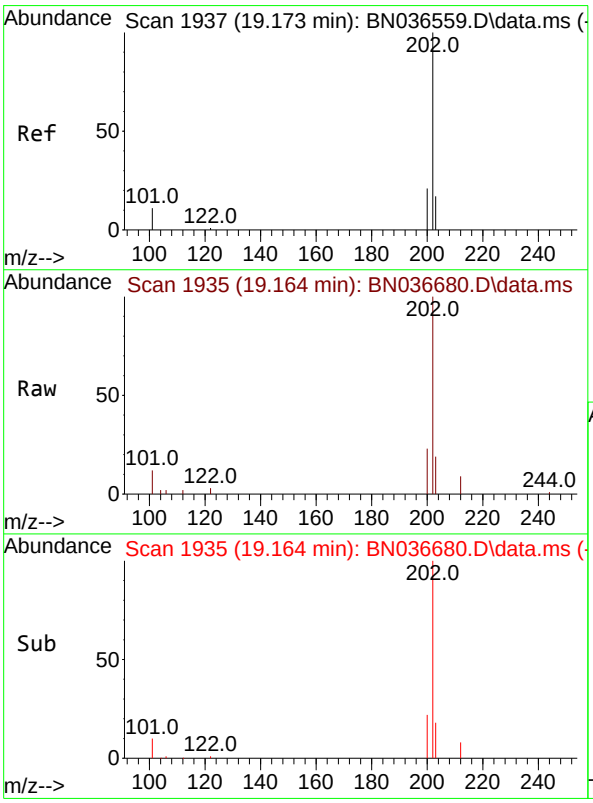
Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.5	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

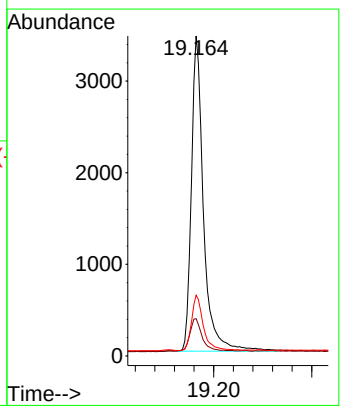
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

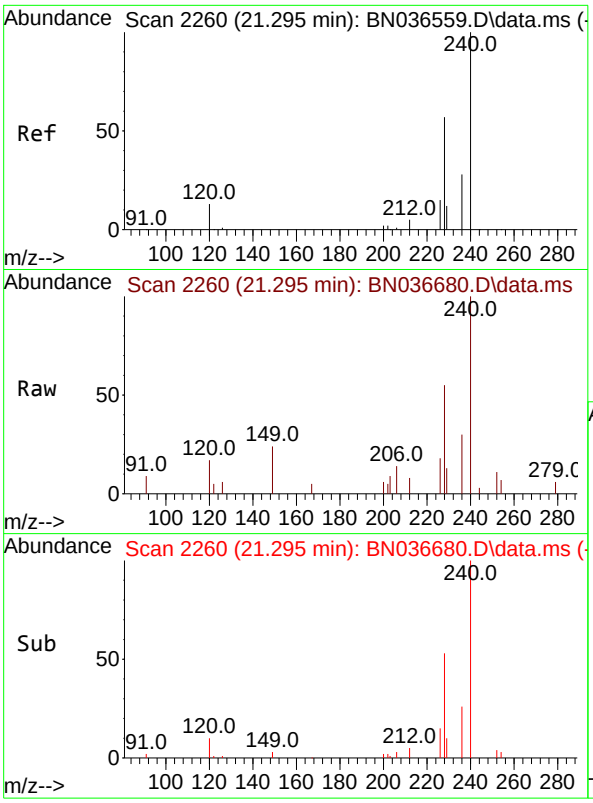


#28
Fluoranthene
Concen: 0.420 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:202 Resp: 5883

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	17.0	13.5	20.3

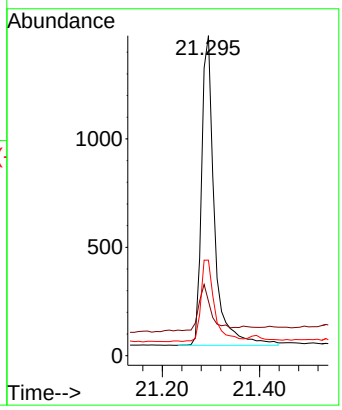




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:240 Resp: 262

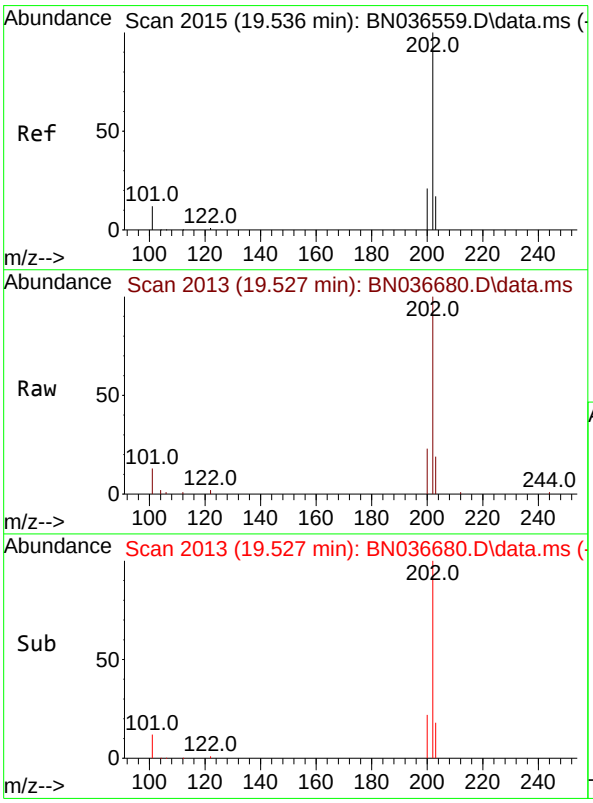
Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.6	22.0
236	29.9	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

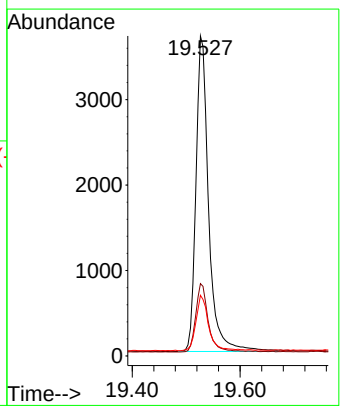
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

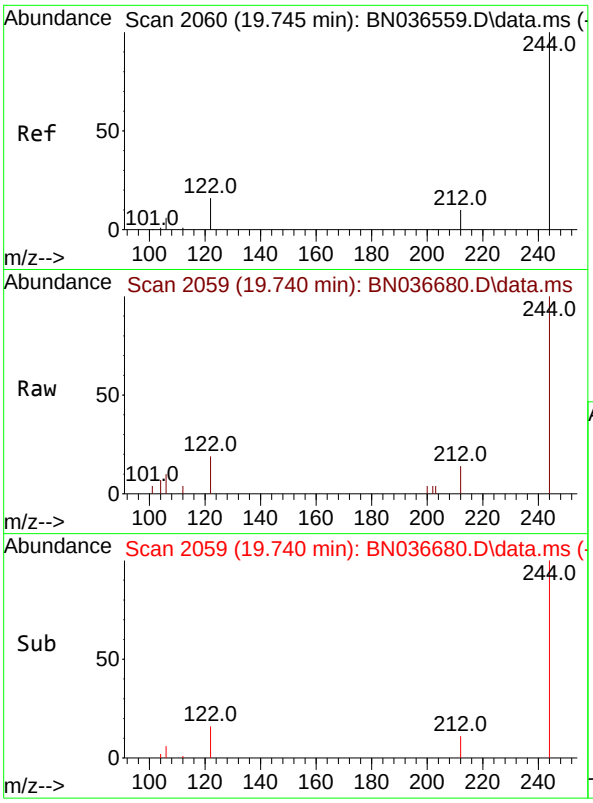


#30
Pyrene
Concen: 0.470 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:202 Resp: 6026

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

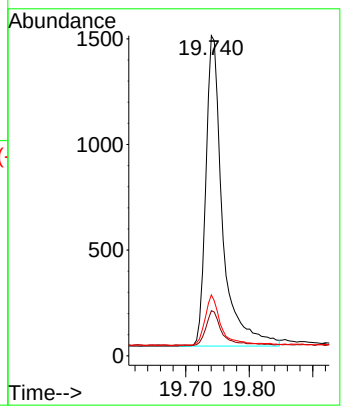




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:244 Resp: 269

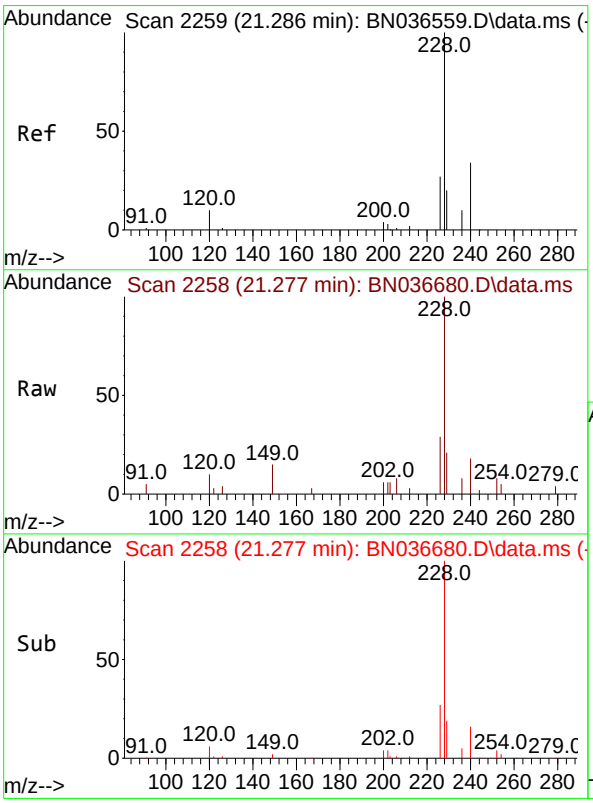
Ion	Ratio	Lower	Upper
244	100		
212	14.1	9.6	14.4
122	19.0	13.9	20.9



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

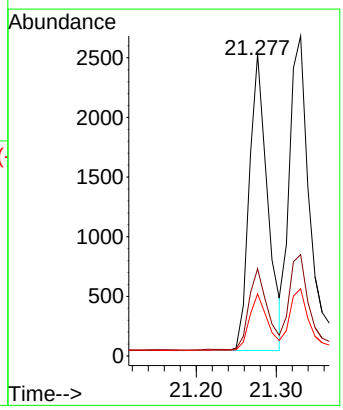
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

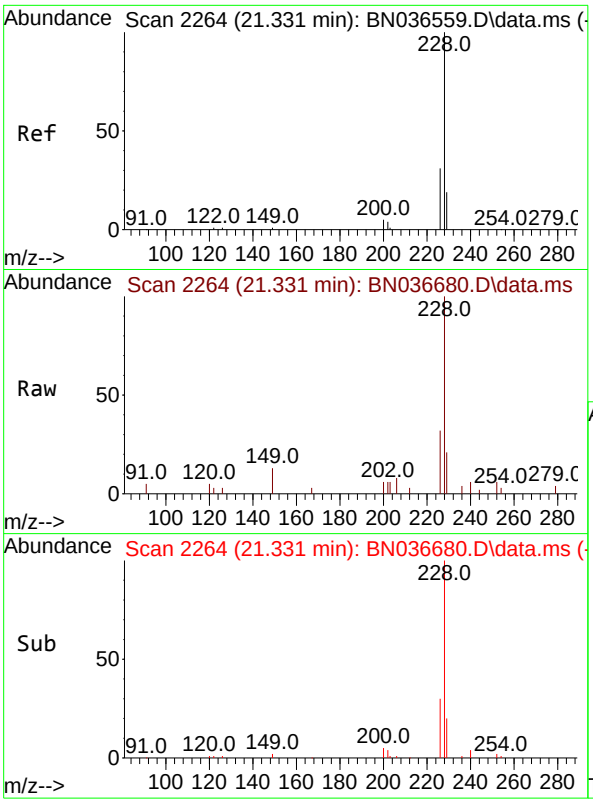


#32
Benzo(a)anthracene
Concen: 0.434 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:228 Resp: 3958

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	20.6	16.6	25.0

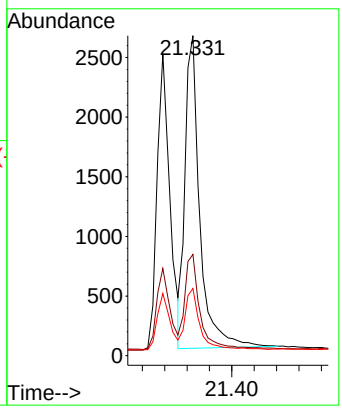




#33
Chrysene
Concen: 0.482 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:228 Resp: 480

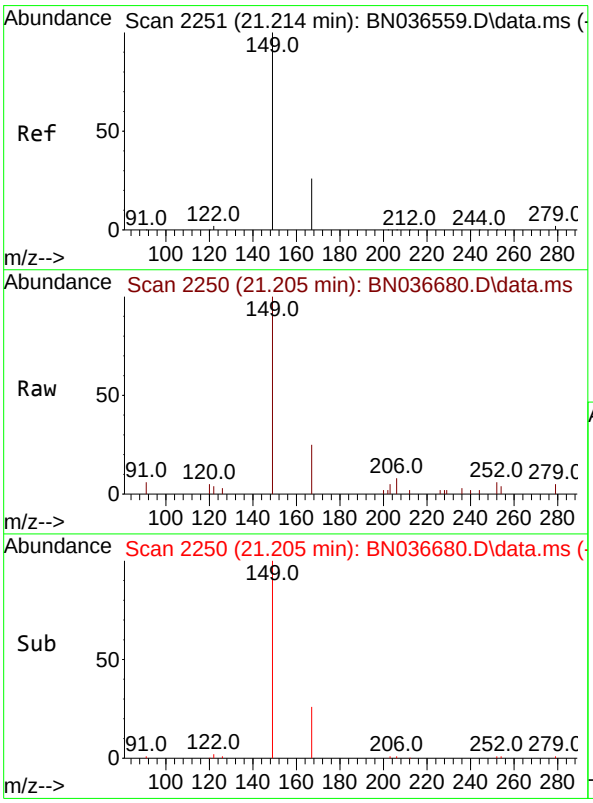
Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.3	37.9
229	21.0	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

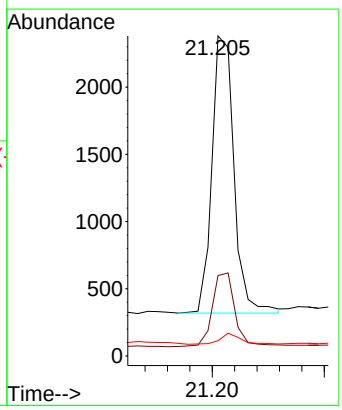
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

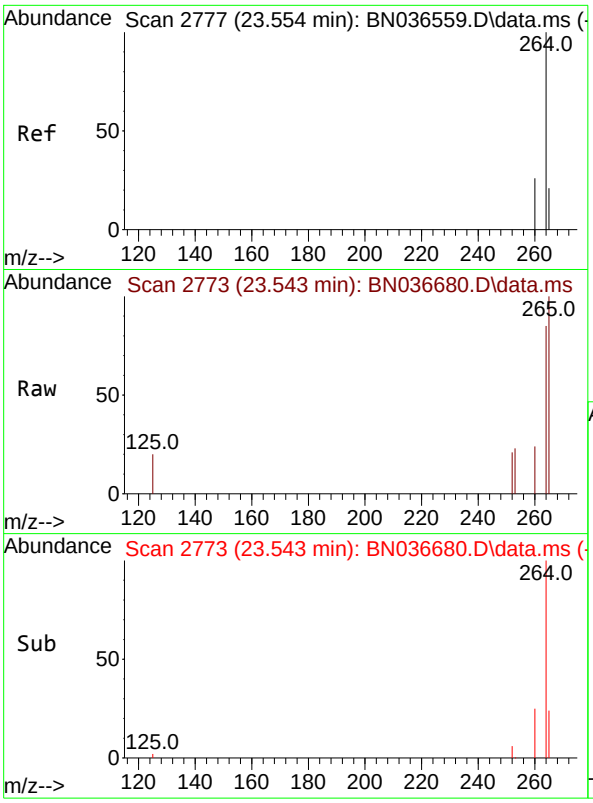


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.433 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:149 Resp: 2813

Ion	Ratio	Lower	Upper
149	100		
167	27.7	20.7	31.1
279	3.8	3.6	5.4

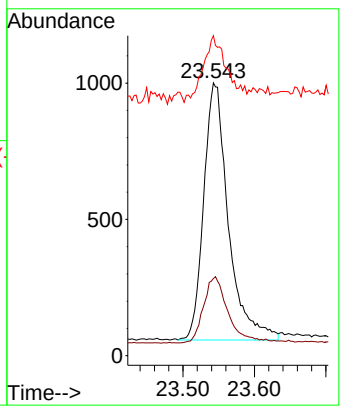




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:264 Resp: 226

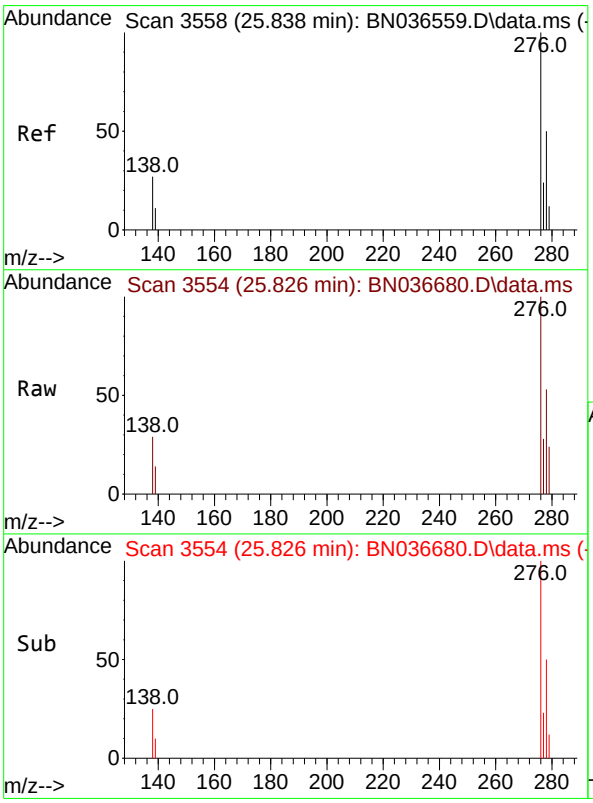
Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.6	33.8
265	117.3	88.1	132.1



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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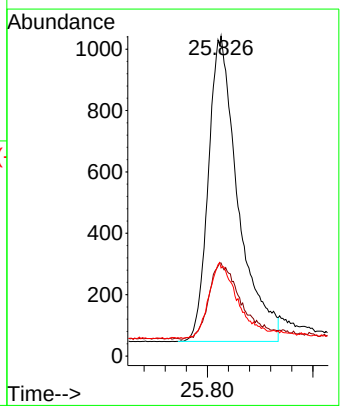
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

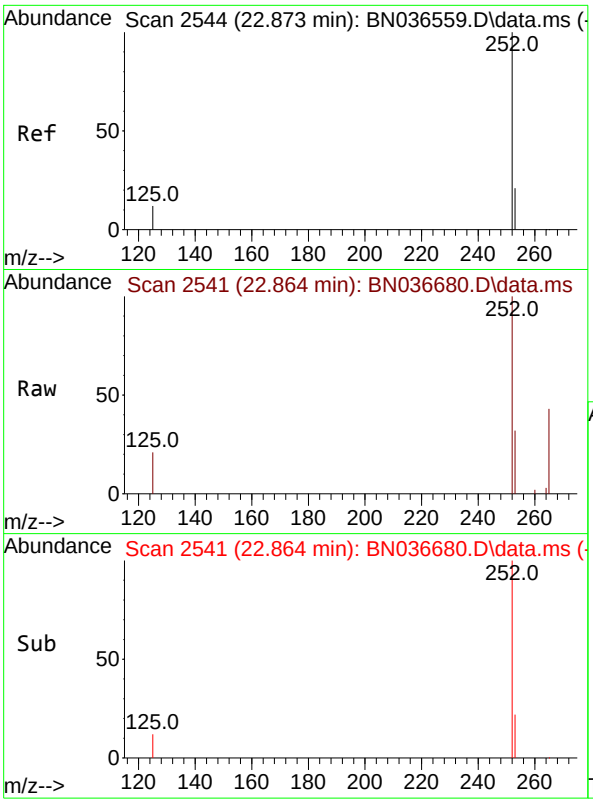


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.476 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:276 Resp: 3886

Ion	Ratio	Lower	Upper
276	100		
138	26.2	23.4	35.2
277	24.2	20.0	30.0

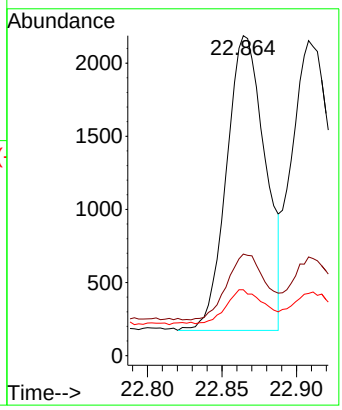




#37
Benzo(b)fluoranthene
Concen: 0.442 ng
RT: 22.864 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:252 Resp: 363

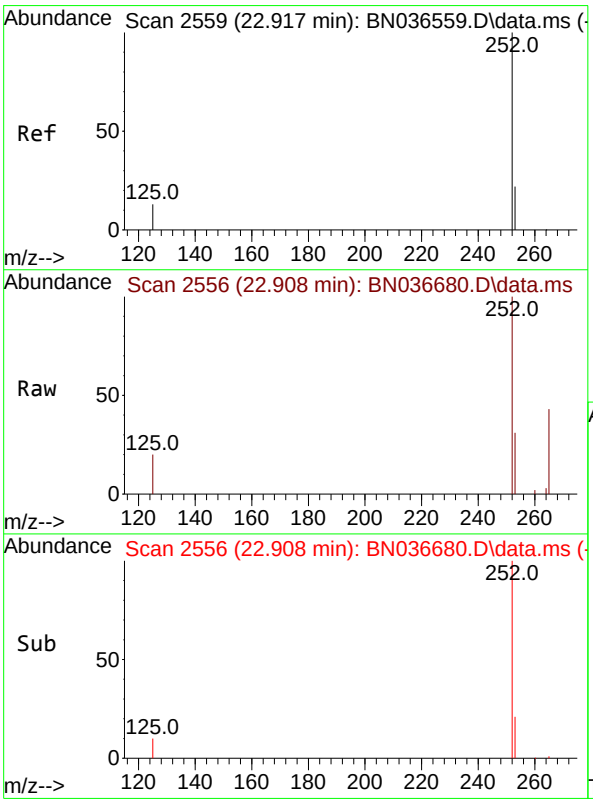
Ion	Ratio	Lower	Upper
252	100		
253	31.7	23.9	35.9
125	20.6	17.4	26.2



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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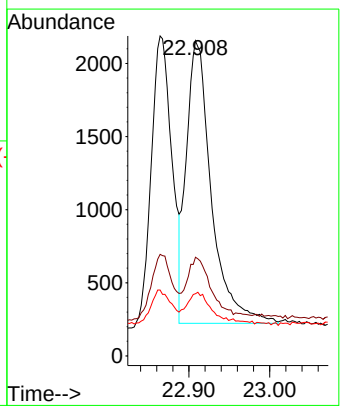
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

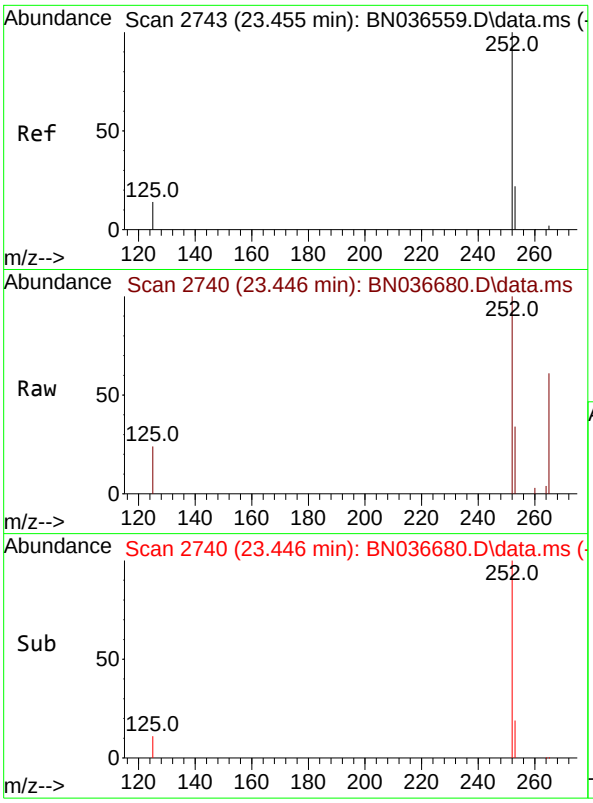


#38
Benzo(k)fluoranthene
Concen: 0.483 ng m
RT: 22.908 min Scan# 2556
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:252 Resp: 4167

Ion	Ratio	Lower	Upper
252	100		
253	31.3	24.6	36.8
125	19.7	17.8	26.8

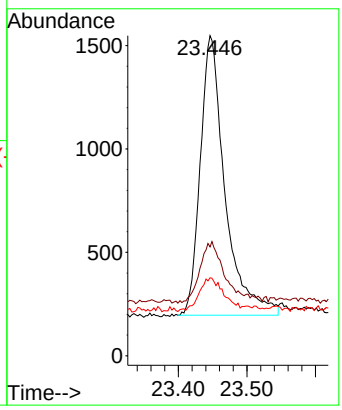




#39
Benzo(a)pyrene
Concen: 0.489 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:252 Resp: 339

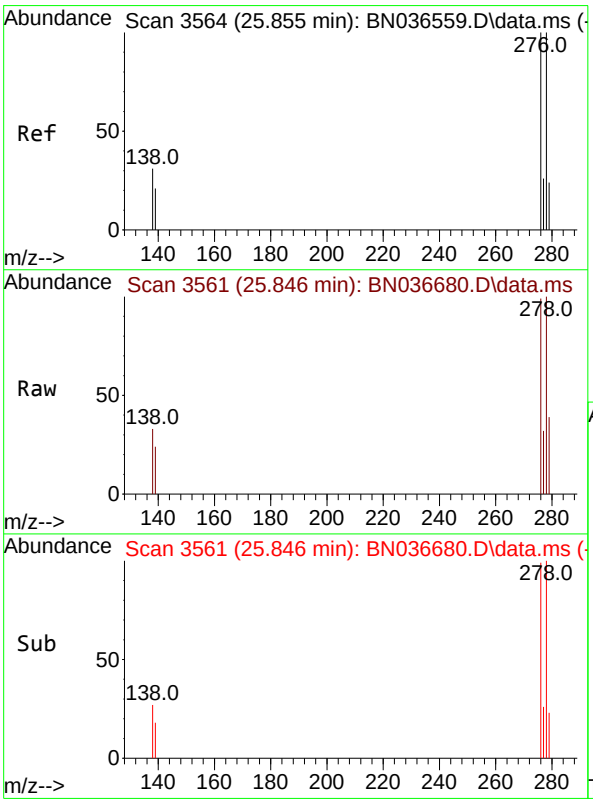
Ion	Ratio	Lower	Upper
252	100		
253	34.0	27.8	41.8
125	24.4	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
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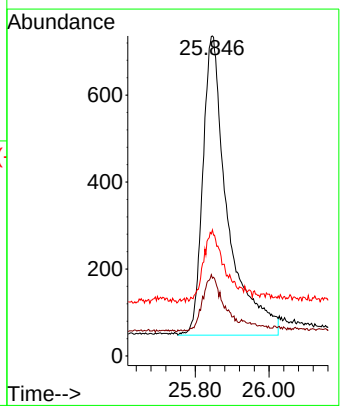
Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

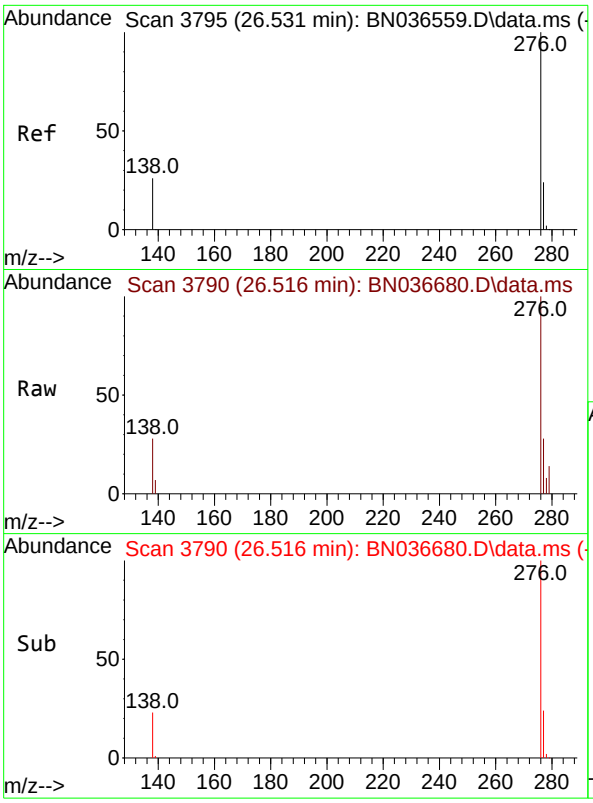


#40
Dibenzo(a,h)anthracene
Concen: 0.505 ng
RT: 25.846 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:278 Resp: 3209

Ion	Ratio	Lower	Upper
278	100		
139	24.3	20.8	31.2
279	39.4	28.8	43.2

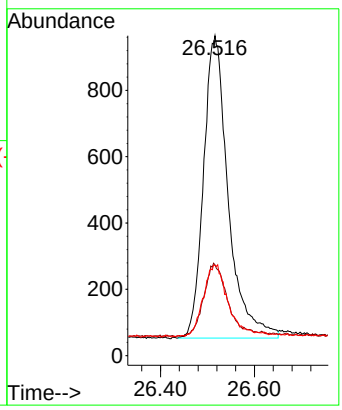




#41
Benzo(g,h,i)perylene
Concen: 0.458 ng
RT: 26.516 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:276 Resp: 333

Ion	Ratio	Lower	Upper
276	100		
277	28.4	22.2	33.4
138	28.2	24.1	36.1



Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/18/2025
Supervised By :Jagrut Upadhyay 03/18/2025

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

Manual Integration Report

Sequence:	BN031025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036557.D	1,4-Dioxane	anahy	3/11/2025 9:18:29 AM	Jagrut	3/11/2025 10:27:49 AM	Peak Integrated by Software
SSTDICC0.2	BN036558.D	1,4-Dioxane	anahy	3/11/2025 9:19:12 AM	Jagrut	3/11/2025 10:27:51 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Benzo(k)fluoranthene	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Chrysene-d12	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN031725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1582-06	BN036664.D	Benzo(g,h,i)perylene	anahy	3/18/2025 9:59:49 AM	Jagrut	3/18/2025 11:57:19 AM	Peak Integrated by Software
PB167159BS	BN036665.D	2-Methylnaphthalene-d10	anahy	3/18/2025 10:00:56 AM	Jagrut	3/18/2025 11:57:22 AM	Peak Integrated by Software
PB167159BS	BN036665.D	Benzo(k)fluoranthene	anahy	3/18/2025 10:00:56 AM	Jagrut	3/18/2025 11:57:22 AM	Peak Integrated by Software
SSTDCCC0.4	BN036666.D	Benzo(b)fluoranthene	anahy	3/18/2025 10:33:50 AM	Jagrut	3/18/2025 11:57:25 AM	Peak Integrated by Software
SSTDCCC0.4	BN036666.D	Benzo(k)fluoranthene	anahy	3/18/2025 10:33:50 AM	Jagrut	3/18/2025 11:57:25 AM	Peak Integrated by Software
SSTDCCC0.4	BN036668.D	Benzo(b)fluoranthene	anahy	3/18/2025 10:34:34 AM	Jagrut	3/18/2025 11:57:30 AM	Peak Integrated by Software
Q1582-11	BN036674.D	Bis(2-ethylhexyl)phthalate	anahy	3/18/2025 11:03:02 AM	Jagrut	3/18/2025 11:57:35 AM	Peak Integrated by Software
Q1582-15	BN036678.D	Bis(2-ethylhexyl)phthalate	anahy	3/18/2025 11:03:43 AM	Jagrut	3/18/2025 11:57:37 AM	Peak Integrated by Software
PB167159BSD	BN036680.D	2-Methylnaphthalene-d10	anahy	3/18/2025 11:04:52 AM	Jagrut	3/18/2025 11:57:39 AM	Peak Integrated by Software
PB167159BSD	BN036680.D	Benzo(k)fluoranthene	anahy	3/18/2025 11:04:52 AM	Jagrut	3/18/2025 11:57:39 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BN031825	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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 # 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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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031725

Review By	anahy	Review On	3/18/2025 11:05:14 AM		
Supervise By	Jagrut	Supervise On	3/18/2025 11:59:32 AM		
SubDirectory	BN031725	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	BN036650.D	17 Mar 2025 09:10	RC/JU	Ok
2	SSTDCCC0.4	BN036651.D	17 Mar 2025 09:49	RC/JU	Ok
3	PB167128BL	BN036652.D	17 Mar 2025 10:25	RC/JU	Not Ok
4	Q1559-09DL	BN036653.D	17 Mar 2025 11:01	RC/JU	Ok
5	Q1559-01DL	BN036654.D	17 Mar 2025 11:38	RC/JU	Ok
6	Q1559-21DL	BN036655.D	17 Mar 2025 12:13	RC/JU	Ok
7	Q1559-02DL	BN036656.D	17 Mar 2025 12:49	RC/JU	Not Ok
8	Q1559-04DL	BN036657.D	17 Mar 2025 13:26	RC/JU	Ok
9	Q1559-02DL	BN036658.D	17 Mar 2025 14:14	RC/JU	Ok
10	Q1582-01	BN036659.D	17 Mar 2025 14:55	RC/JU	Ok
11	Q1582-02	BN036660.D	17 Mar 2025 15:31	RC/JU	Ok
12	Q1582-03	BN036661.D	17 Mar 2025 16:07	RC/JU	Dilution
13	Q1582-04	BN036662.D	17 Mar 2025 16:43	RC/JU	Ok
14	Q1582-05	BN036663.D	17 Mar 2025 17:19	RC/JU	Ok
15	Q1582-06	BN036664.D	17 Mar 2025 17:55	RC/JU	Dilution
16	PB167159BS	BN036665.D	17 Mar 2025 18:31	RC/JU	Ok,M
17	SSTDCCC0.4	BN036666.D	17 Mar 2025 19:08	RC/JU	Ok,M
18	DFTPP	BN036667.D	17 Mar 2025 20:23	RC/JU	Ok
19	SSTDCCC0.4	BN036668.D	17 Mar 2025 21:02	RC/JU	Ok,M
20	PB167159BL	BN036669.D	17 Mar 2025 21:39	RC/JU	Not Ok
21	Q1582-07	BN036670.D	17 Mar 2025 22:15	RC/JU	Dilution

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031725

Review By	anahy	Review On	3/18/2025 11:05:14 AM		
Supervise By	Jagrut	Supervise On	3/18/2025 11:59:32 AM		
SubDirectory	BN031725	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	Q1582-08	BN036671.D	17 Mar 2025 22:51	RC/JU	Ok
23	Q1582-09	BN036672.D	17 Mar 2025 23:27	RC/JU	Ok
24	Q1582-10	BN036673.D	18 Mar 2025 00:03	RC/JU	Ok
25	Q1582-11	BN036674.D	18 Mar 2025 00:39	RC/JU	Ok,M
26	Q1582-12	BN036675.D	18 Mar 2025 01:15	RC/JU	Ok
27	Q1582-13	BN036676.D	18 Mar 2025 01:51	RC/JU	Ok
28	Q1582-14	BN036677.D	18 Mar 2025 02:28	RC/JU	Ok
29	Q1582-15	BN036678.D	18 Mar 2025 03:04	RC/JU	Ok,M
30	Q1582-03DL	BN036679.D	18 Mar 2025 03:40	RC/JU	Ok
31	PB167159BSD	BN036680.D	18 Mar 2025 04:16	RC/JU	Ok,M
32	SSTDCCC0.4	BN036681.D	18 Mar 2025 04:52	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031825

Review By	anahy	Review On	3/19/2025 8:44:41 AM		
Supervise By	Jagrut	Supervise On	3/20/2025 5:02:49 PM		
SubDirectory	BN031825	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	BN036682.D	18 Mar 2025 08:42	RC/JU	Ok
2	SSTDCCC0.4	BN036683.D	18 Mar 2025 09:21	RC/JU	Ok
3	PB167159BL	BN036684.D	18 Mar 2025 09:57	RC/JU	Ok
4	Q1582-06DL	BN036685.D	18 Mar 2025 10:34	RC/JU	Ok
5	Q1582-07DL	BN036686.D	18 Mar 2025 11:10	RC/JU	Ok
6	SSTDCCC0.4	BN036687.D	18 Mar 2025 12:35	RC/JU	Ok

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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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031725

Review By	anahy	Review On	3/18/2025 11:05:14 AM	
Supervise By	Jagrut	Supervise On	3/18/2025 11:59:32 AM	
SubDirectory	BN031725	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	BN036650.D	17 Mar 2025 09:10		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036651.D	17 Mar 2025 09:49		RC/JU	Ok
3	PB167128BL	PB167128BL	BN036652.D	17 Mar 2025 10:25	Not Used	RC/JU	Not Ok
4	Q1559-09DL	DUP03-20250310DL	BN036653.D	17 Mar 2025 11:01		RC/JU	Ok
5	Q1559-01DL	RE115D1-20250310DL	BN036654.D	17 Mar 2025 11:38		RC/JU	Ok
6	Q1559-21DL	RE120D3-20250312DL	BN036655.D	17 Mar 2025 12:13		RC/JU	Ok
7	Q1559-02DL	RE115D2-20250310DL	BN036656.D	17 Mar 2025 12:49	Make a fresh Dilution and run Dilution again	RC/JU	Not Ok
8	Q1559-04DL	RE134D3-20250310DL	BN036657.D	17 Mar 2025 13:26		RC/JU	Ok
9	Q1559-02DL	RE115D2-20250310DL	BN036658.D	17 Mar 2025 14:14		RC/JU	Ok
10	Q1582-01	RE117D1-20250313	BN036659.D	17 Mar 2025 14:55		RC/JU	Ok
11	Q1582-02	TT180D1-20250313	BN036660.D	17 Mar 2025 15:31		RC/JU	Ok
12	Q1582-03	TT180D2-20250313	BN036661.D	17 Mar 2025 16:07	Need 2X dilution	RC/JU	Dilution
13	Q1582-04	TT180D-20250313	BN036662.D	17 Mar 2025 16:43		RC/JU	Ok
14	Q1582-05	FB02-20250313	BN036663.D	17 Mar 2025 17:19		RC/JU	Ok
15	Q1582-06	RE131D1-20250313	BN036664.D	17 Mar 2025 17:55	Need 5X Dilution	RC/JU	Dilution
16	PB167159BS	PB167159BS	BN036665.D	17 Mar 2025 18:31		RC/JU	Ok,M
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036666.D	17 Mar 2025 19:08		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031725

Review By	anahy	Review On	3/18/2025 11:05:14 AM	
Supervise By	Jagrut	Supervise On	3/18/2025 11:59:32 AM	
SubDirectory	BN031725	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	DFTPP	DFTPP	BN036667.D	17 Mar 2025 20:23		RC/JU	Ok
19	SSTDCCC0.4	SSTDCCC0.4	BN036668.D	17 Mar 2025 21:02		RC/JU	Ok,M
20	PB167159BL	PB167159BL	BN036669.D	17 Mar 2025 21:39	Not Used	RC/JU	Not Ok
21	Q1582-07	RE131D2-20250313	BN036670.D	17 Mar 2025 22:15	Need 5X Dilution	RC/JU	Dilution
22	Q1582-08	RE131D3-20250313	BN036671.D	17 Mar 2025 22:51		RC/JU	Ok
23	Q1582-09	TT119S1-20250313	BN036672.D	17 Mar 2025 23:27		RC/JU	Ok
24	Q1582-10	RE114D1-20250313	BN036673.D	18 Mar 2025 00:03		RC/JU	Ok
25	Q1582-11	BPOW1-7-20250314	BN036674.D	18 Mar 2025 00:39		RC/JU	Ok,M
26	Q1582-12	BPOW1-8-20250314	BN036675.D	18 Mar 2025 01:15		RC/JU	Ok
27	Q1582-13	TT191D1-20250314	BN036676.D	18 Mar 2025 01:51		RC/JU	Ok
28	Q1582-14	TT191D2-20250314	BN036677.D	18 Mar 2025 02:28		RC/JU	Ok
29	Q1582-15	DUP06-20250314	BN036678.D	18 Mar 2025 03:04		RC/JU	Ok,M
30	Q1582-03DL	TT180D2-20250313DL	BN036679.D	18 Mar 2025 03:40		RC/JU	Ok
31	PB167159BSD	PB167159BSD	BN036680.D	18 Mar 2025 04:16		RC/JU	Ok,M
32	SSTDCCC0.4	SSTDCCC0.4EC	BN036681.D	18 Mar 2025 04:52		RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN031825

Review By	anahy	Review On	3/19/2025 8:44:41 AM	
Supervise By	Jagrut	Supervise On	3/20/2025 5:02:49 PM	
SubDirectory	BN031825	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	BN036682.D	18 Mar 2025 08:42		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036683.D	18 Mar 2025 09:21		RC/JU	Ok
3	PB167159BL	PB167159BL	BN036684.D	18 Mar 2025 09:57		RC/JU	Ok
4	Q1582-06DL	RE131D1-20250313DL	BN036685.D	18 Mar 2025 10:34		RC/JU	Ok
5	Q1582-07DL	RE131D2-20250313DL	BN036686.D	18 Mar 2025 11:10		RC/JU	Ok
6	SSTDCCC0.4	SSTDCCC0.4EC	BN036687.D	18 Mar 2025 12:35		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167159

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 : 03/17/2025

Extraction Start Time : 08:48

Extraction End Date : 03/17/2025

Extraction End Time : 14:00

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	SP6741
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3904
Baked Na2SO4	N/A	EP2593
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/17/25	RS (EH-lab)	RC/SVOC
14:05	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167159

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/17/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167159BL	SBLK159	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			SEP-1
PB167159BS	SLCS159	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			2
PB167159BSD	SLCSD159	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			3
Q1582-01	RE117D1-20250313	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		4
Q1582-02	TT180D1-20250313	SVOC-SIMGroup1	940	6	RUPESH	ritesh	1	C		5
Q1582-03	TT180D2-20250313	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		6
Q1582-04	TT180D-20250313	SVOC-SIMGroup1	980	6	RUPESH	ritesh	1	C		7
Q1582-05	FB02-20250313	SVOC-SIMGroup1	960	6	RUPESH	ritesh	1	C		8
Q1582-06	RE131D1-20250313	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		9
Q1582-07	RE131D2-20250313	SVOC-SIMGroup1	950	6	RUPESH	ritesh	1	C		10
Q1582-08	RE131D3-20250313	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		11
Q1582-09	TT119S1-20250313	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		12
Q1582-10	RE114D1-20250313	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		13
Q1582-11	BPOW1-7-20250314	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		14
Q1582-12	BPOW1-8-20250314	SVOC-SIMGroup1	960	6	RUPESH	ritesh	1	C		15
Q1582-13	TT191D1-20250314	SVOC-SIMGroup1	950	6	RUPESH	ritesh	1	C		16
Q1582-14	TT191D2-20250314	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		17
Q1582-15	DUP06-20250314	SVOC-SIMGroup1	980	6	RUPESH	ritesh	1	C		18

RS 3/17

*** Extracts relinquished on the same date as received.**

167159 8:48

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1582 **WorkList ID :** 188313 **Department :** Extraction **Date :** 03-17-2025 08:42:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1582-01	RE117D1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-02	TT180D1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-03	TT180D2-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-04	TT180D-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-05	FB02-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-06	RE131D1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-07	RE131D2-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-08	RE131D3-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-09	TT119S1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-10	RE114D1-20250313	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-11	BPOW1-7-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-12	BPOW1-8-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-13	TT191D1-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-14	TT191D2-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified
Q1582-15	DUP06-20250314	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	I42	03/13/2025	8270-Modified

Date/Time 3/17/25 8:42
Raw Sample Received by: RS (Ext-Lab)
Raw Sample Relinquished by:

Date/Time 3/18/25 9:25
Raw Sample Received by:
Raw Sample Relinquished by: RS (Ext-Lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q1582

Test : SVOC-SIMGroup1

Prepbatch ID : PB167159,

Sequence ID/Qc Batch ID: BN031725,BN031825,

Standard ID :
EP2559,EP2565,EP2593,SP6682,SP6683,SP6684,SP6717,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6741,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3828,E3871,E3873,E3874,E3904,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12208,S12270,S12328,S12469,S12478,S12517,S12525,S12651,S12791,S12966,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2593	03/07/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/07/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = Final Quantity: 25.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6741	02/20/2025	04/10/2025	Rahul Chavli	None	None	mohammad ahmed 02/28/2025

FROM 0.00400ml of S12189 + 0.00800ml of S12208 + 0.02000ml of S11832 + 99.96800ml of E3873 = Final Quantity: 100.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 / RUPESH	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 / RUPESH	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

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Santa Rosa, CA 95403

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(800)878-7654 Toll Free
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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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)

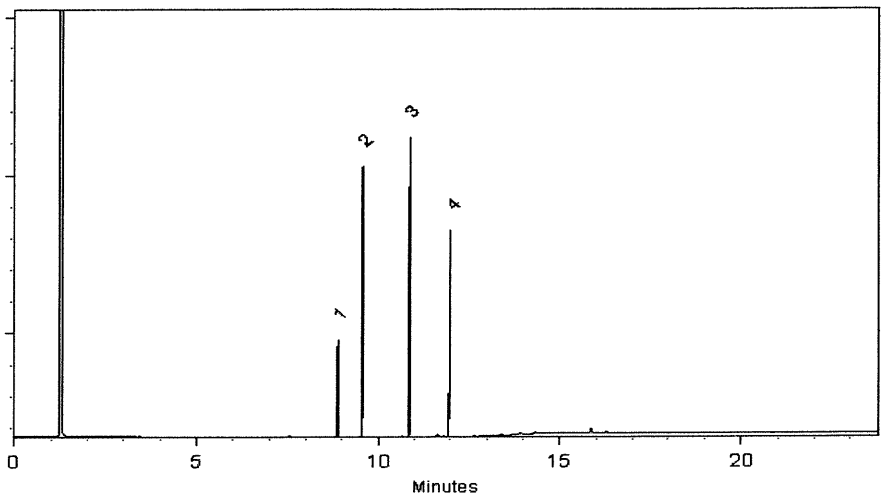
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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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
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Reference Material Producer
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.

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Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

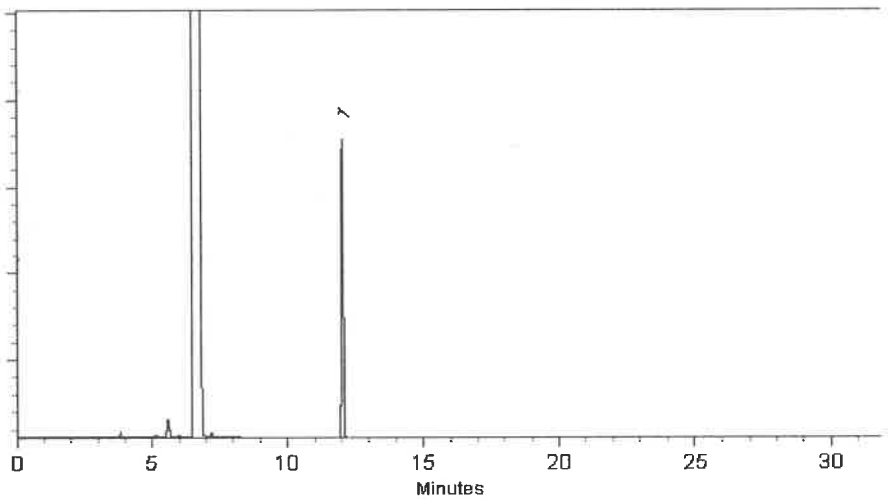
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

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

Page 1 of 1

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

E3904

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

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

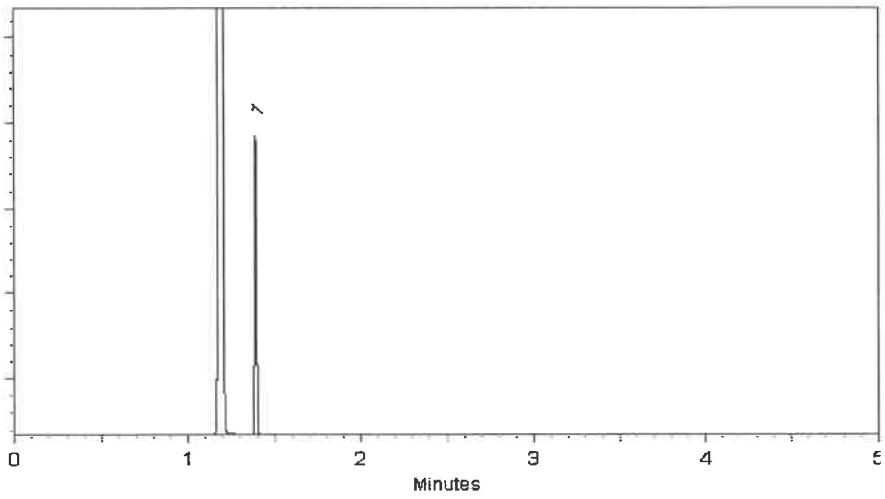
Inj. Temp:
250°C

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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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. : 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.)

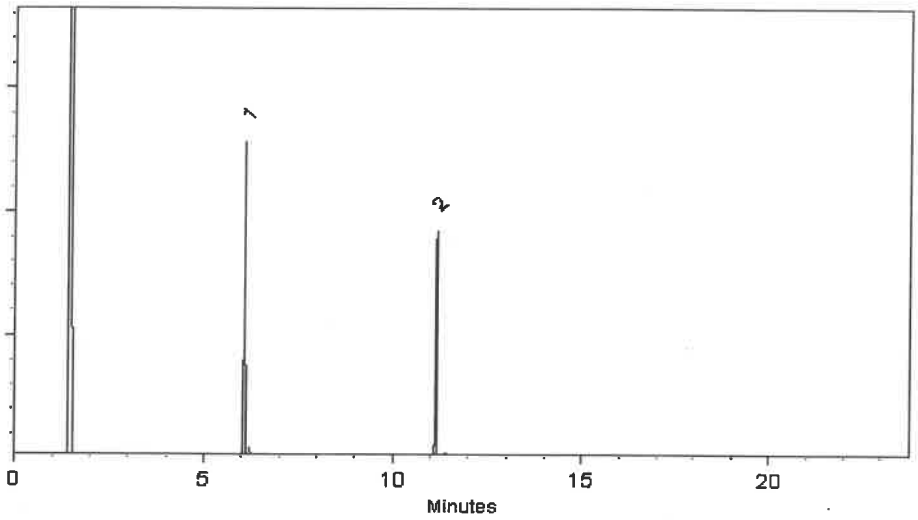
Inj. Temp:
250°C

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.)

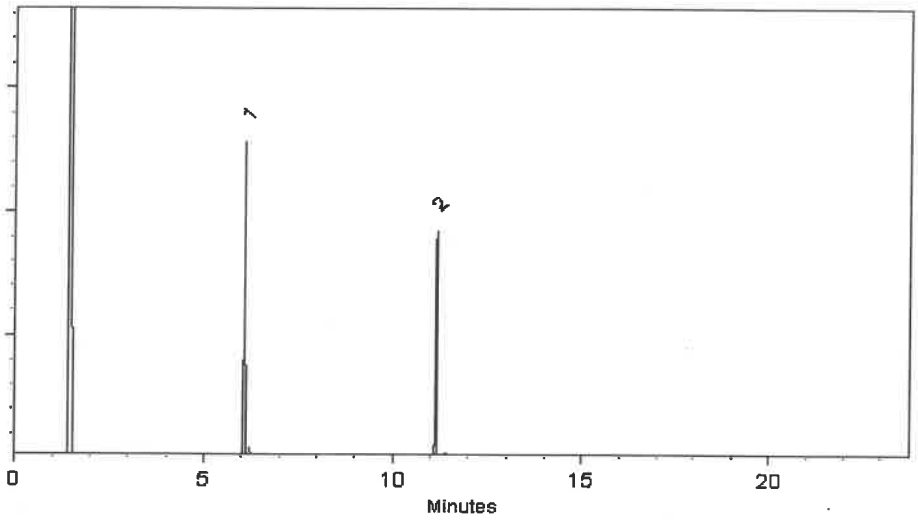
Inj. Temp:
250°C

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:

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- 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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CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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(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-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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.)

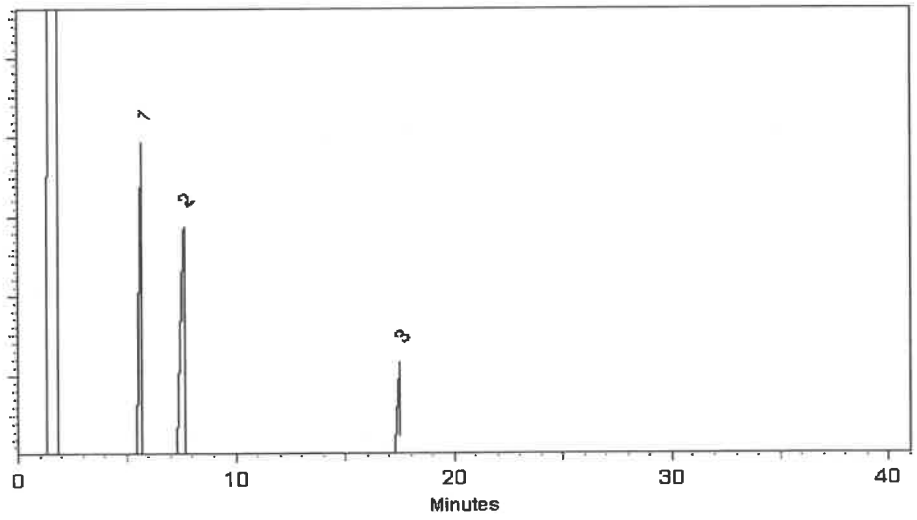
Inj. Temp:
250°C

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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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.)

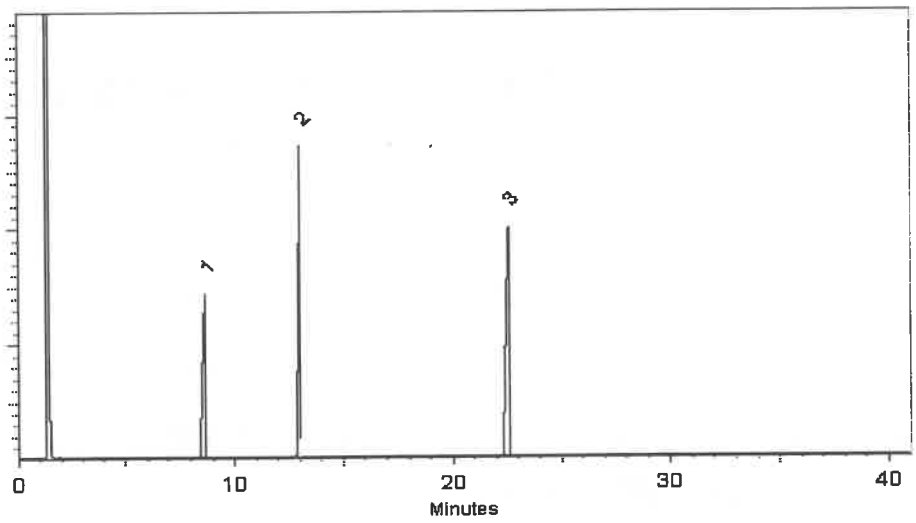
Inj. Temp:
250°C

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

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Santa Rosa, CA 95403

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(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

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S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

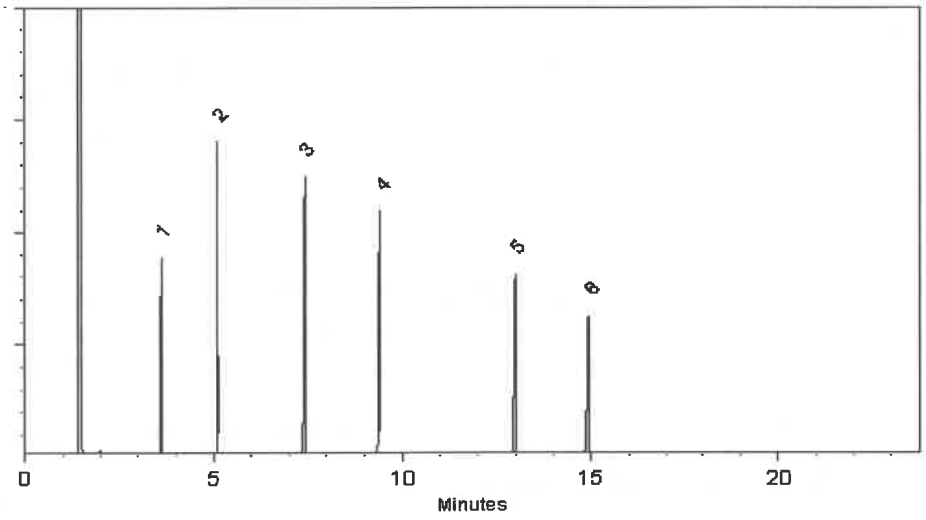
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC/ 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 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

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

gravimetric

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ISO/IEC 17025 Accredited
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
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5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12280 ↓ S12284 RCI 05/24/24

New numbers Generated.

S12790 ↓ S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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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. : 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. QUOTE NO. Q1582
COC Number 2041507

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.: 60738872 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. 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
☒ EDD FORMAT NYSDEC EQD 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 N/E	2 E	3	4	5	6	7	8	9	COMMENTS
1.	RE117D1-20250313	GW		X	3-13-25	0910	3	2	1								
2.	TT180D1-20250313	GW		X		0915	3	2	1								
3.	TT180D2-20250313	GW		X		0915	3	2	1								
4.	TT180D3-20250313	GW		X		0915	3	2	1								
5.	FB02-20250313	DW		X		1130	3	2	1								
6.	RE131D1-20250313	GW		X		1130	3	2	1								
7.	RE131D2-20250313	GW		X		1130	3	2	1								
8.	RE131D3-20250313	GW		X		1115	3	2	1								
9.	TT119S1-20250313	GW		X		1310	3	2	1								
10.	RE114D1-20250313	GW		X		1025	3	2	1								

COMMENTS ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	
RELINQUISHED BY SAMPLER: 1.	3-14-25 1206	RECEIVED BY: 1.
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	3.14.2025 1516	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.1 °C
Comments:

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. Q1582
COC Number 2041508

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.: 60731873 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
☑ EDD FORMAT NYSDEC EDD CAT B

ANALYSIS

1 VOCs 8260
2 1,4 DIOXANE SIM 8270
3
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
								A/E	E								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	BPOW1-7-20250314	GW		X	3-14-25	0910	3	2	1								
2.	BPOW1-8-20250314	GW		X		0915	3	2	1								
3.	TT19D1-20250314	GW		X		1045	3	2	1								
4.	TT19D2-20250314	GW		X		1015	3	2	1								
5.	DUP06-20250314	GW		X		—	3	2	1								
6.	FB	DW		X	11-15-24	—	2	2									
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1.	DATE/TIME: 3.14.25 1206	RECEIVED BY: 1.
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 3.14.2025 1516	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.2c °C
Comments:

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1582 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 3/14/2025 1:09:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 3/14/2025 ~~12:00:00~~ AM 15:16
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
Q1582-01	RE117D1-20250313	Water	03/13/2025	09:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1582-02	TT180D1-20250313	Water	03/13/2025	09:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1582-03	TT180D2-20250313	Water	03/13/2025	09:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1582-04	TT180D-20250313	Water	03/13/2025	09:45					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1582-05	FB02-20250313	Water	03/13/2025	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1582-06	RE131D1-20250313	Water	03/13/2025	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1582-07	RE131D2-20250313	Water	03/13/2025	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1582-08	RE131D3-20250313	Water	03/13/2025	11:15					

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1582 AECO15
Client Name : AECOM Technical Service:
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service:
Invoice Contact : Eleanor Vivadou

Order Date : 3/14/2025 1:09:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 3/14/2025 ~~12:00:00~~ AM 15:16
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	
Q1582-09	TT119S1-20250313	Water	03/13/2025	13:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-10	RE114D1-20250313	Water	03/13/2025	10:25					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-11	BPOW1-7-20250314	Water	~~03/13/2025~~ 03/14/2025	09:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-12	BPOW1-8-20250314	Water	~~03/13/2025~~ 03/14/2025	09:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-13	TT191D1-20250314	Water	~~03/13/2025~~ 03/14/2025	10:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-14	TT191D2-20250314	Water	~~03/13/2025~~ 03/14/2025	10:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1582-15	DUP06-20250314	Water	~~03/13/2025~~ 03/14/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1582 AECO15
Client Name : AECOM Technical Service:
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service:
Invoice Contact : Eleanor Vivadou

Order Date : 3/14/2025 1:09:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 3/14/2025 ~~12:00:00 AM~~ 15:16
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
Q1582-16	FB	Water	~~03/13/2025~~ 03/14/2025	00:00	VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 3.14.2025 1615

Received By : [signature]
Date / Time : 03/14/25 16:15 MH 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

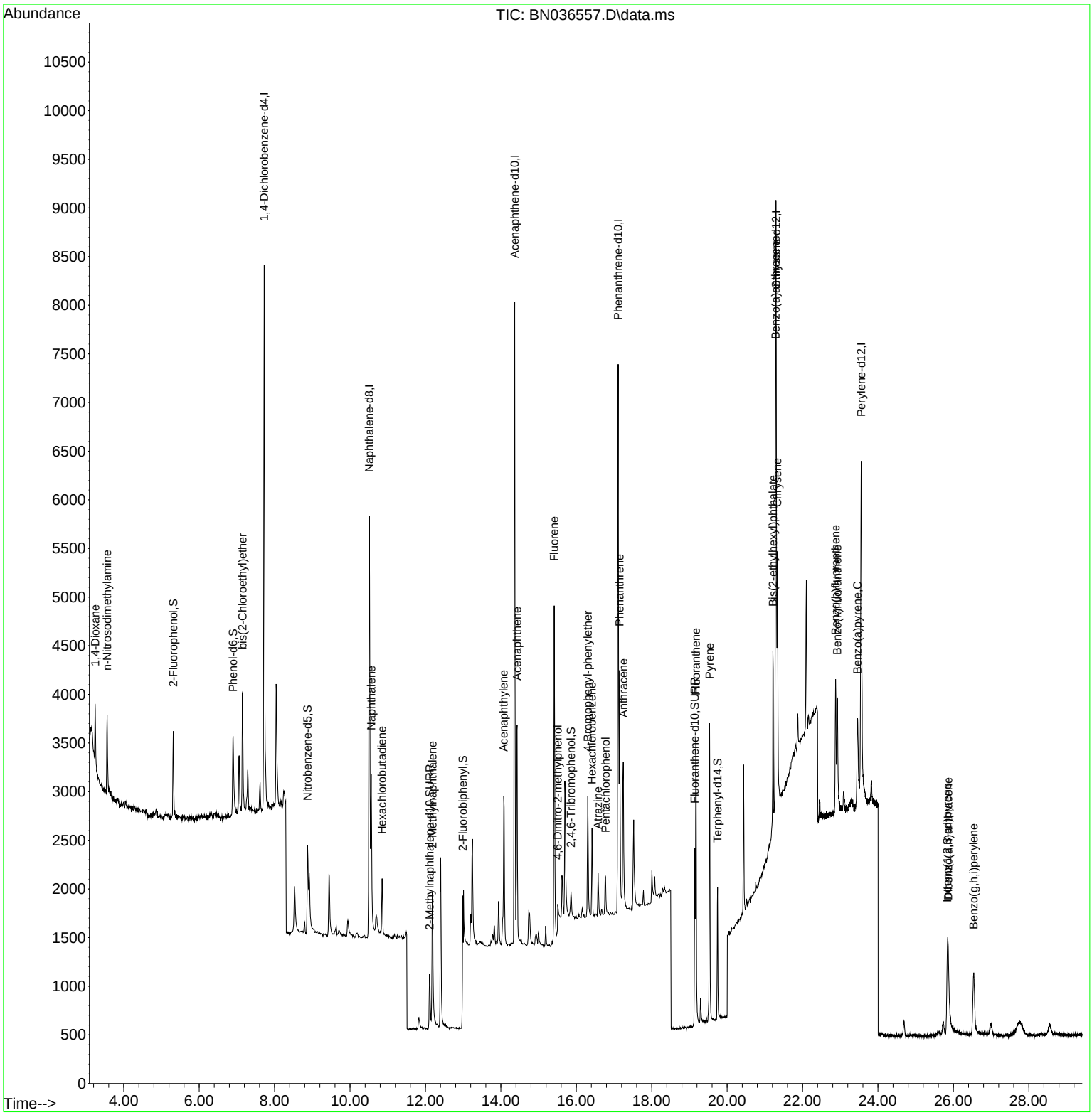
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng		0.00
29) Chrysene-d12	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

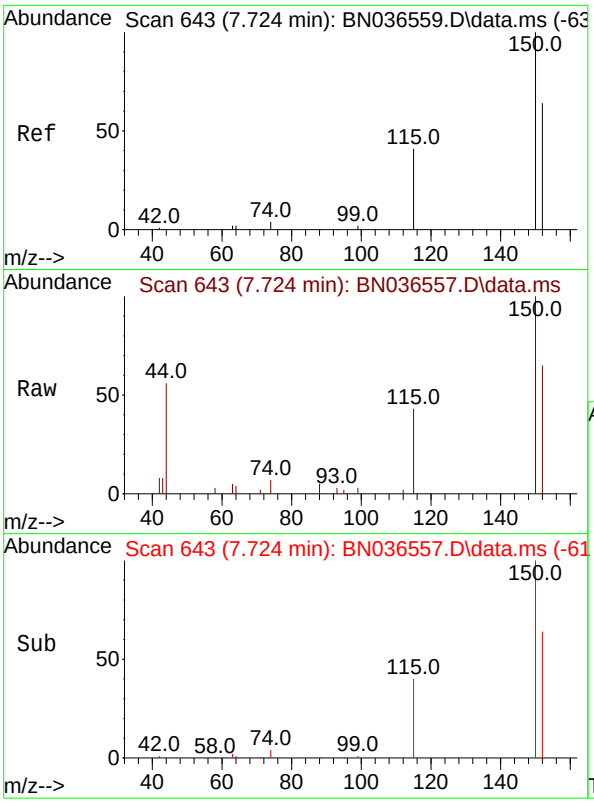
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



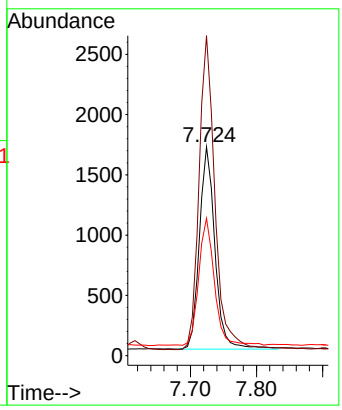


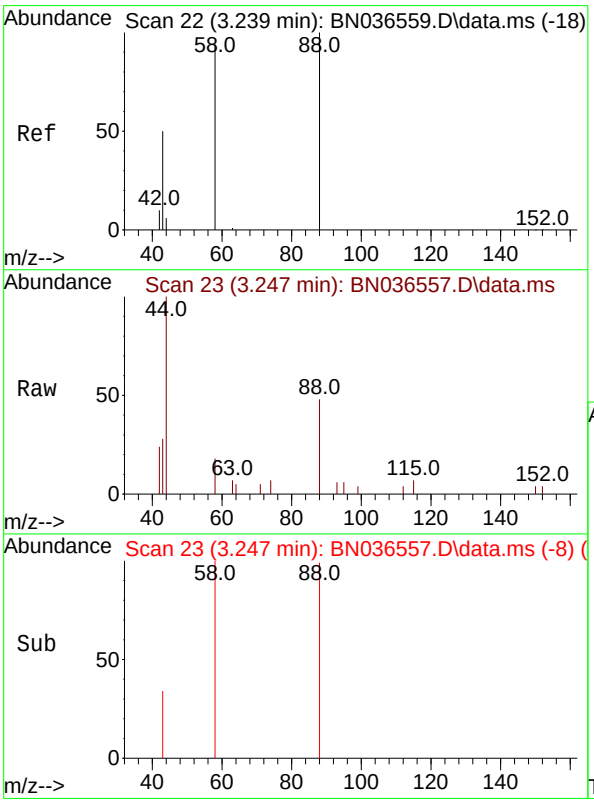
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

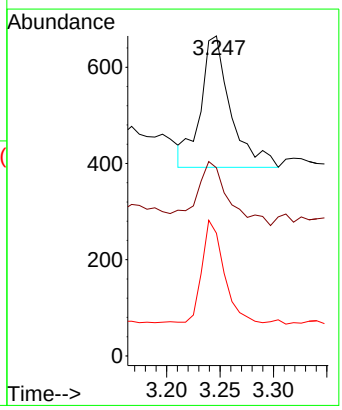


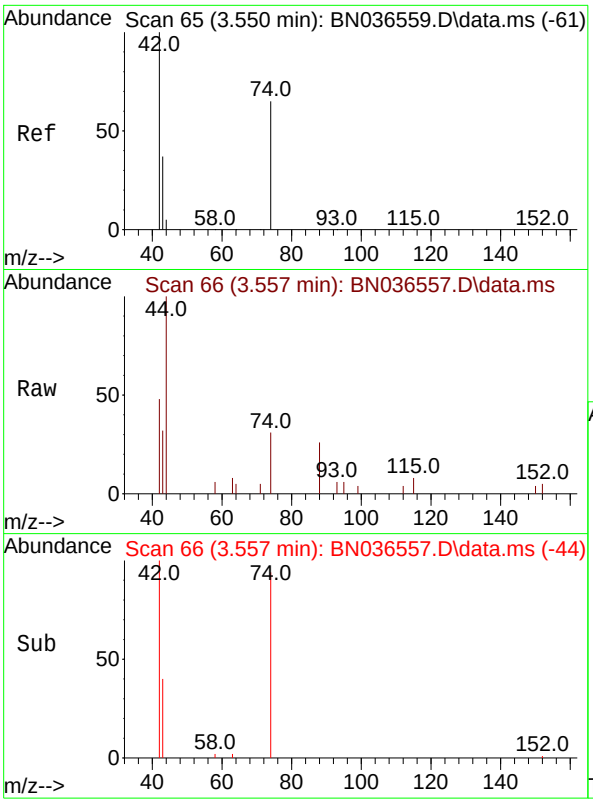


#2
1,4-Dioxane
Concen: 0.175 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#



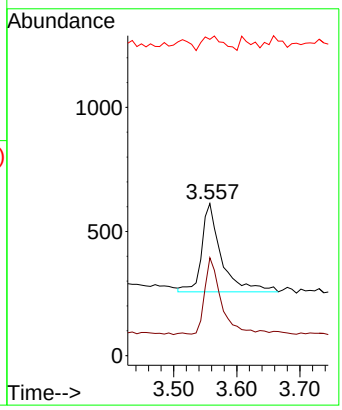


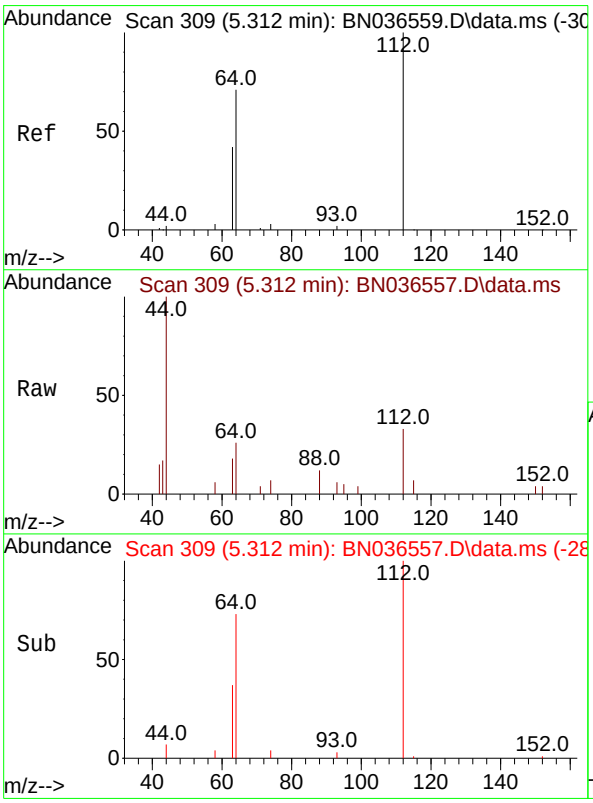
#3
n-Nitrosodimethylamine
Concen: 0.124 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#

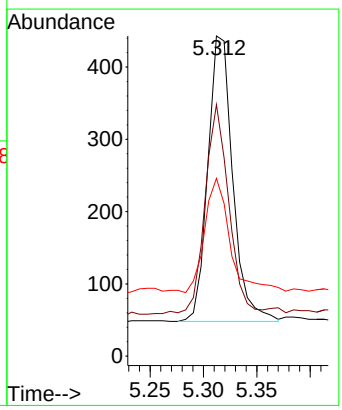


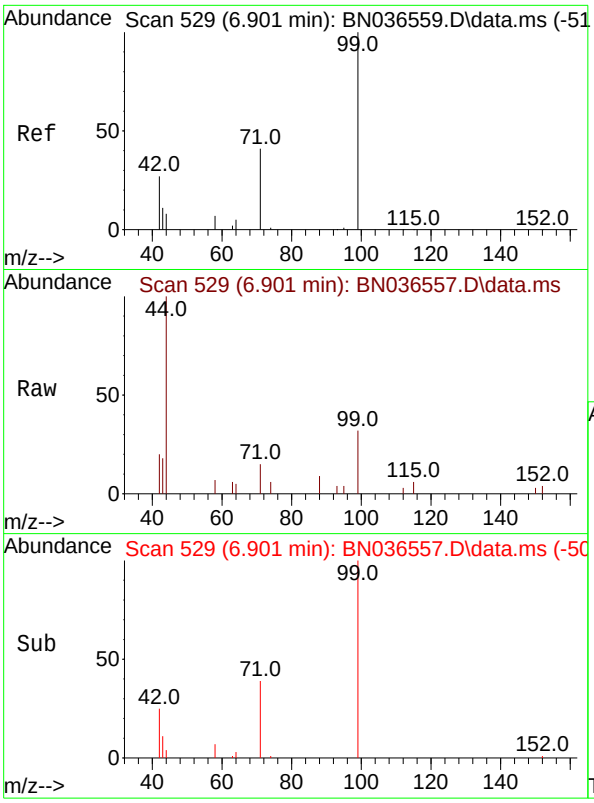


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



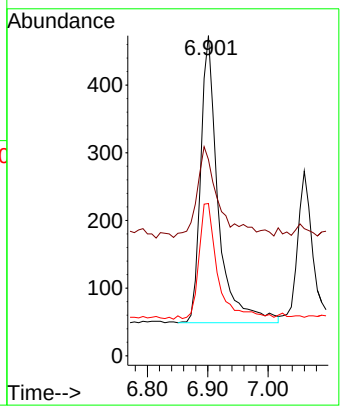


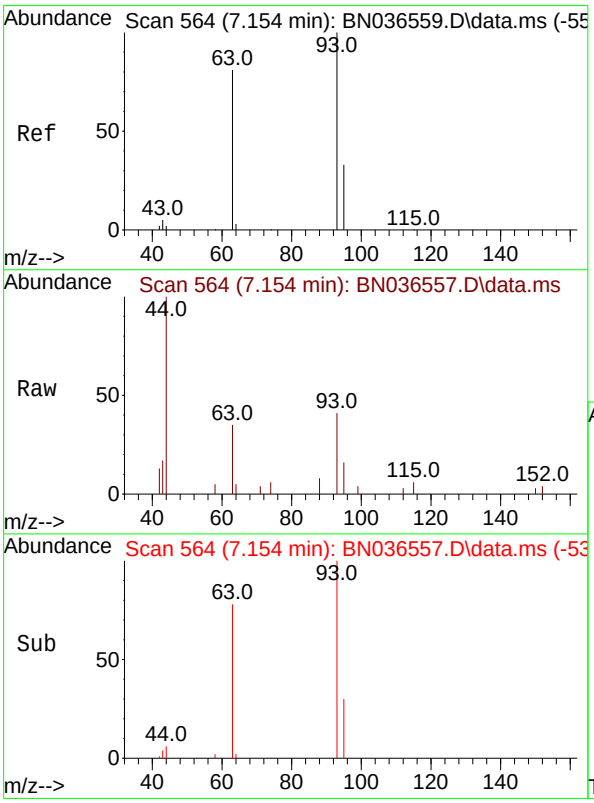
#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

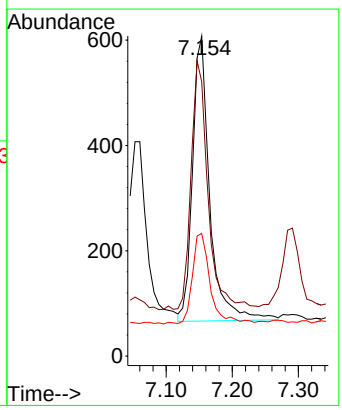


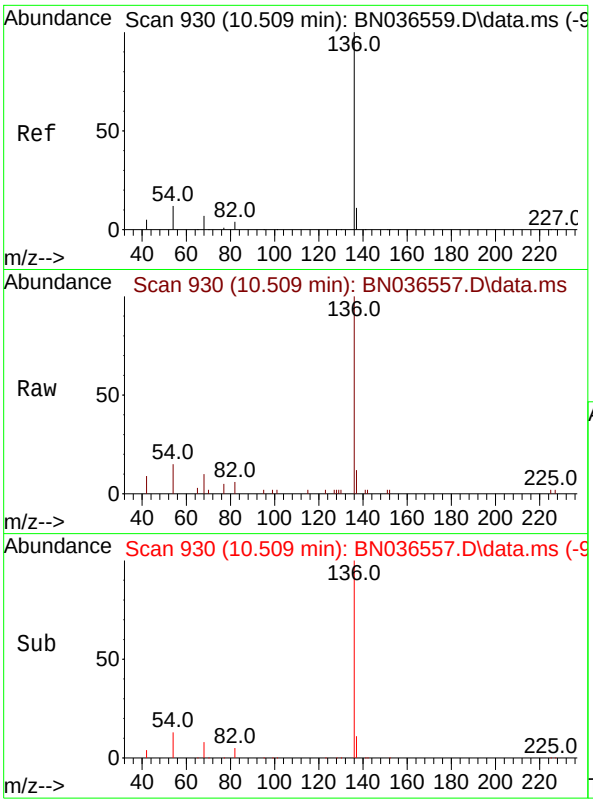


#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



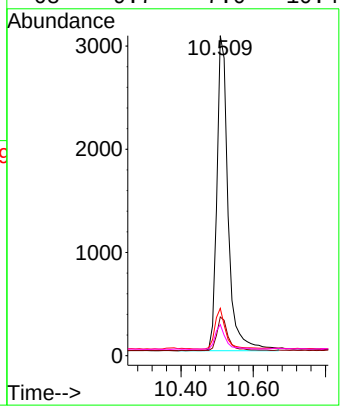


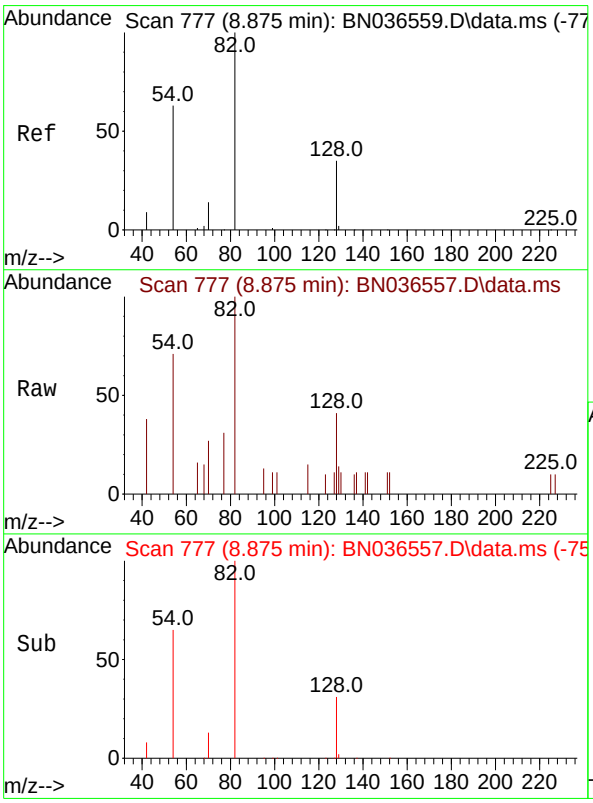
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

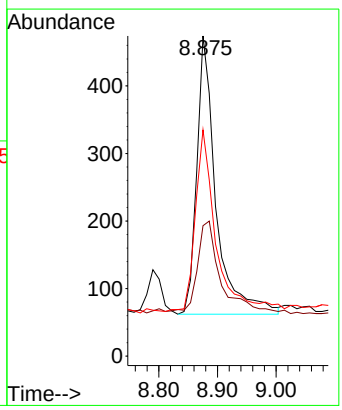


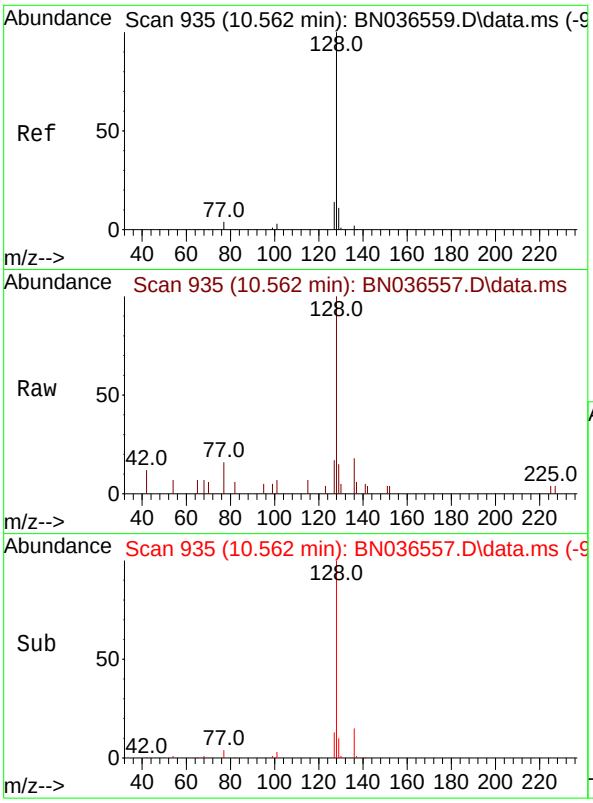


#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



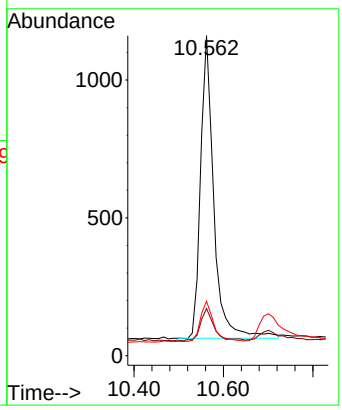


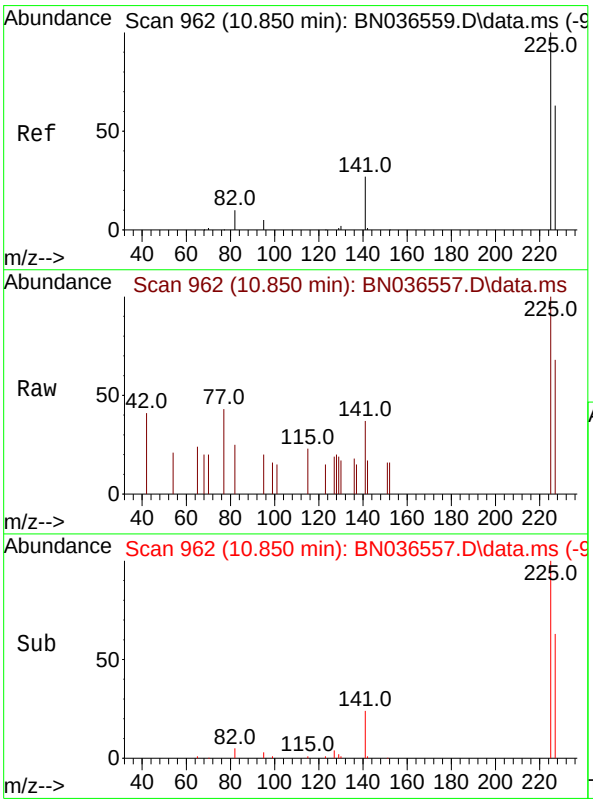
#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

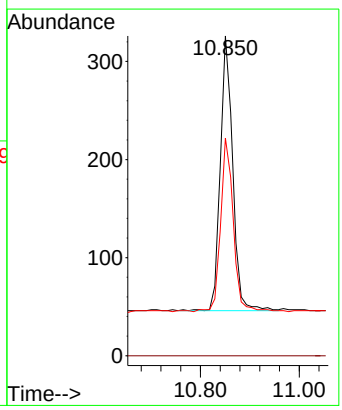


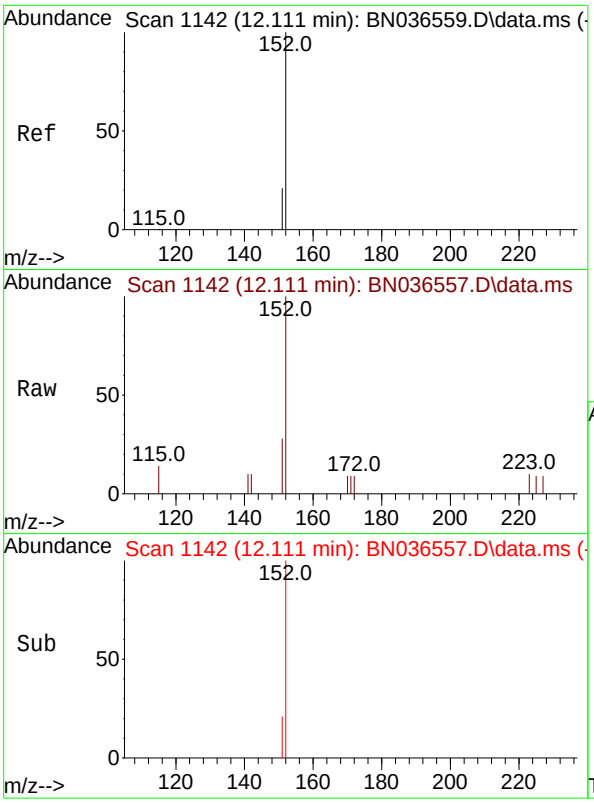


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



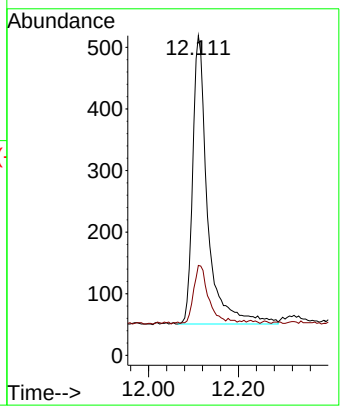


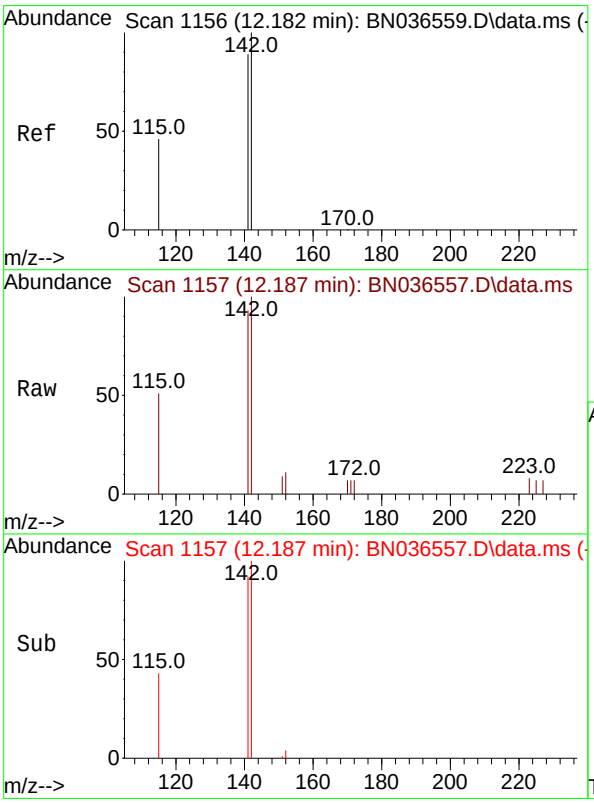
#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 1079

Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.0	25.6

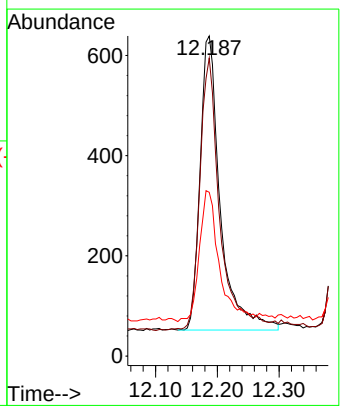


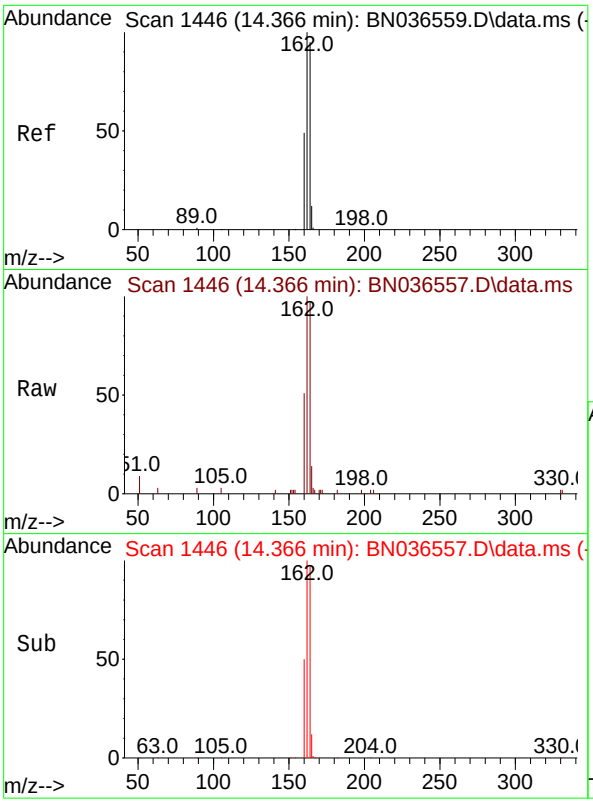


#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



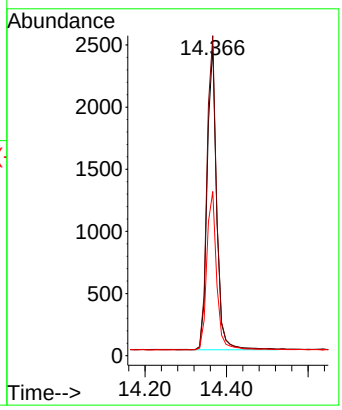


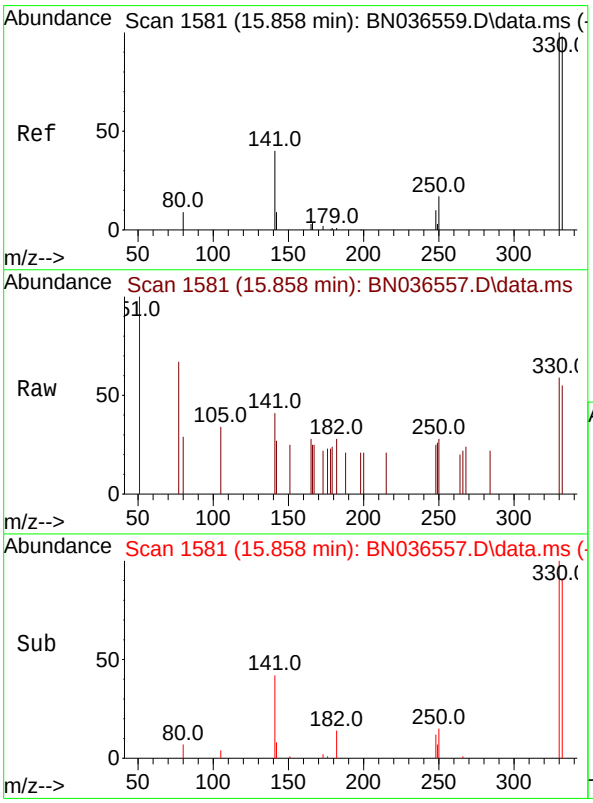
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

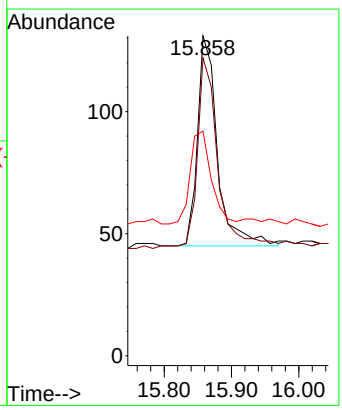


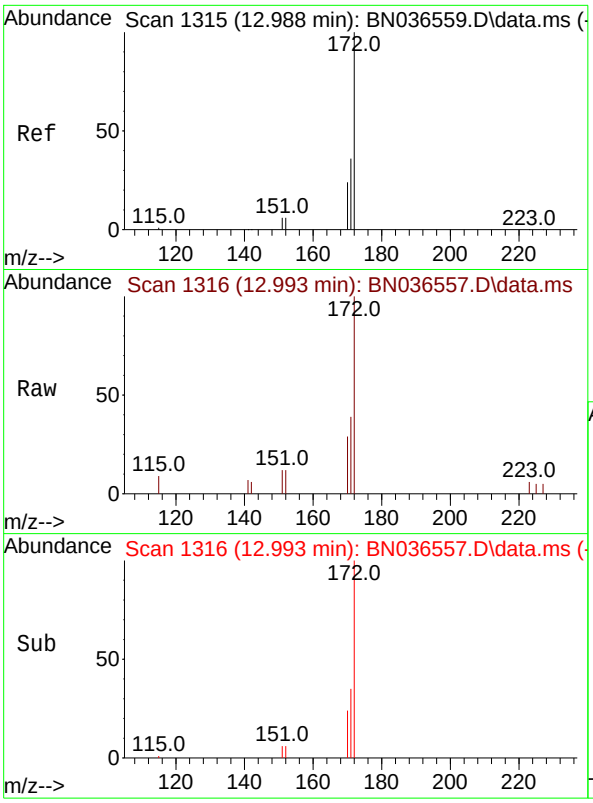


#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



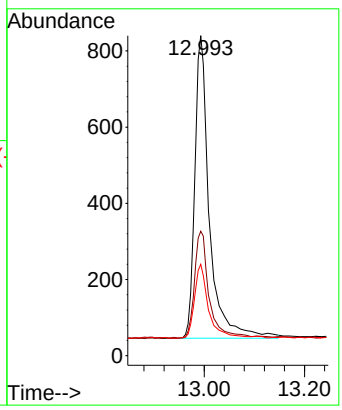


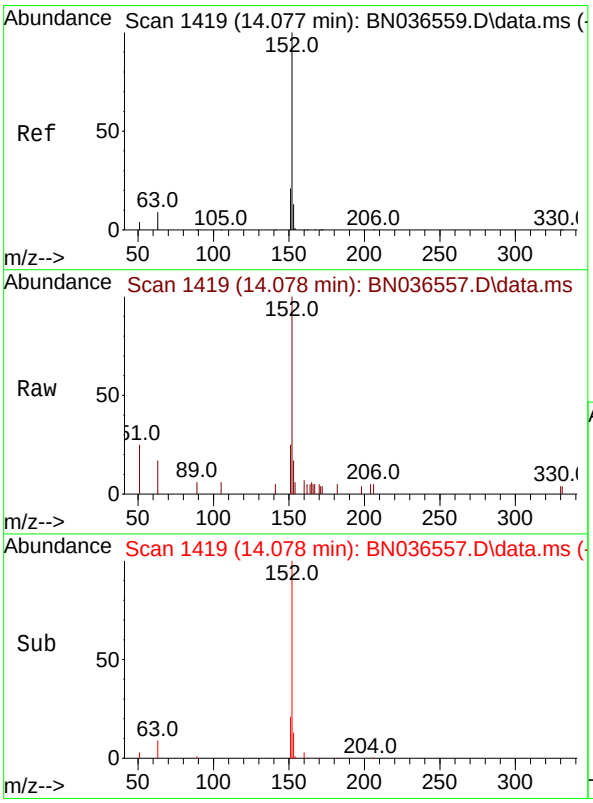
#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

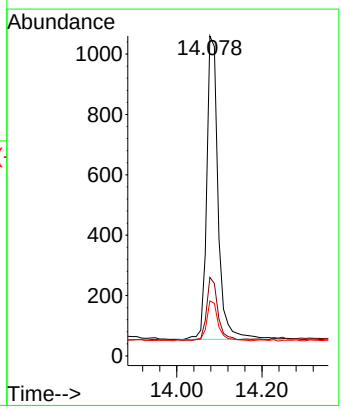


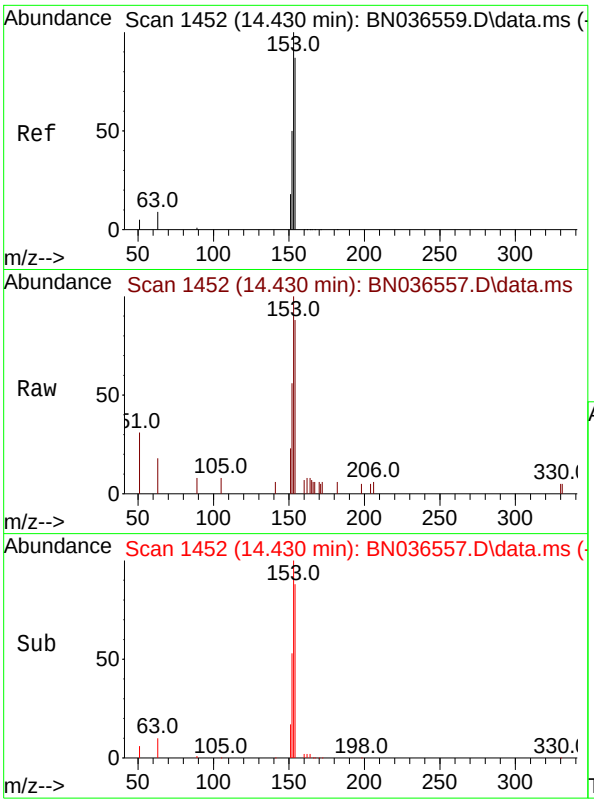


#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



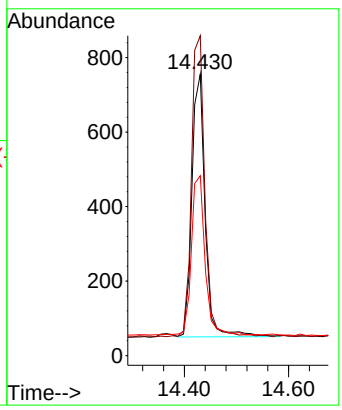


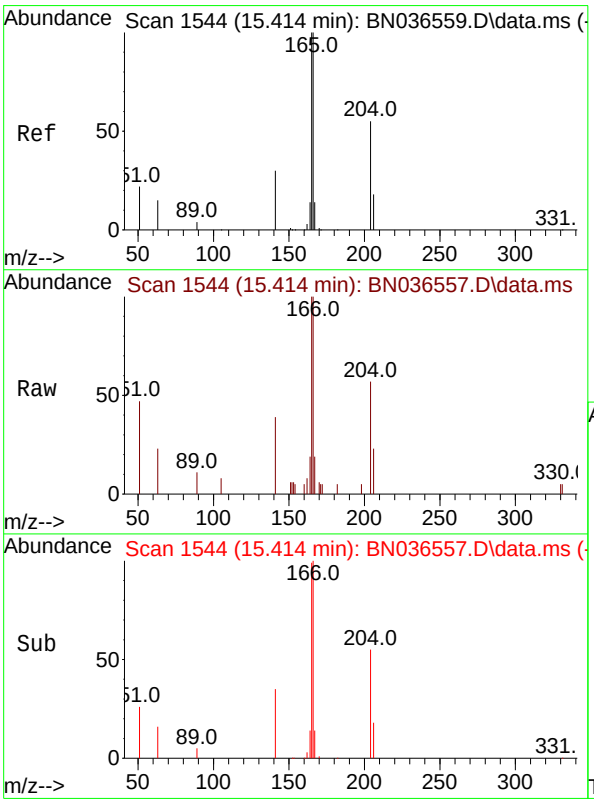
#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

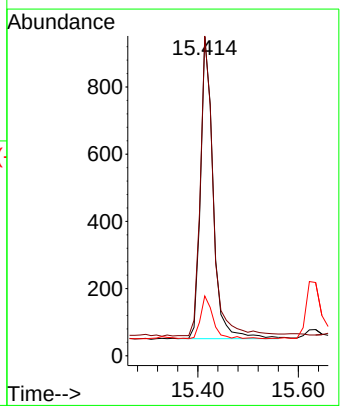


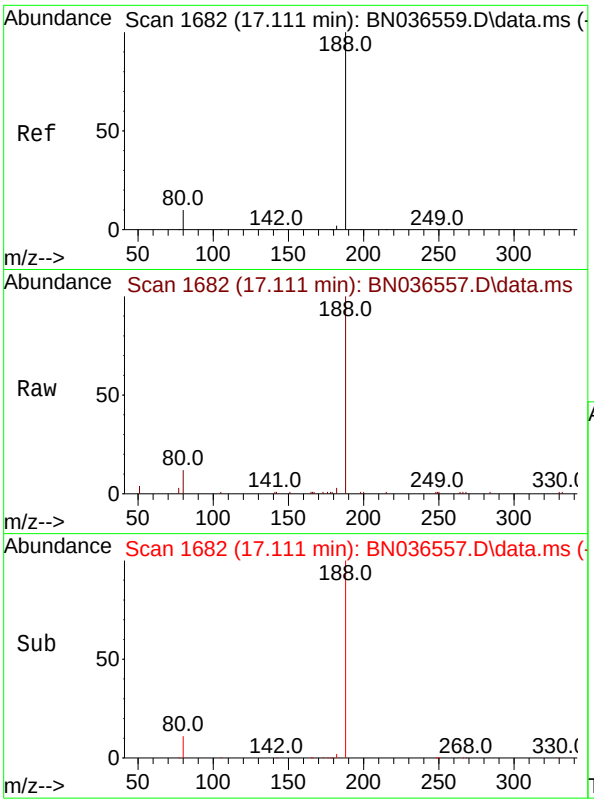


#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



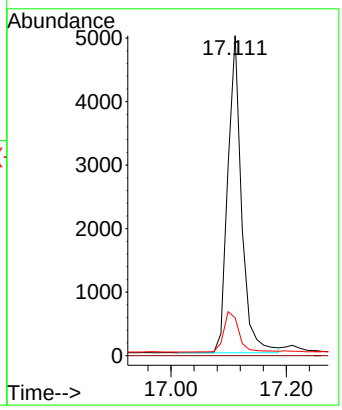


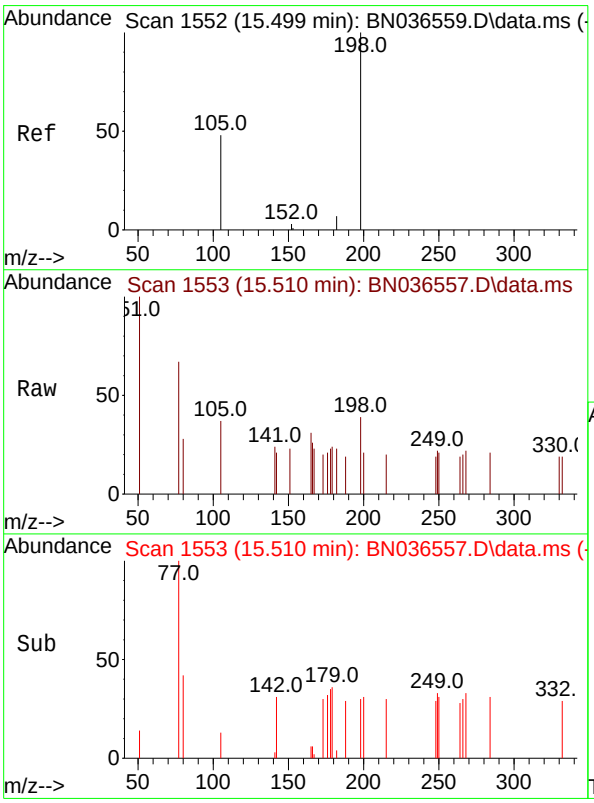
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

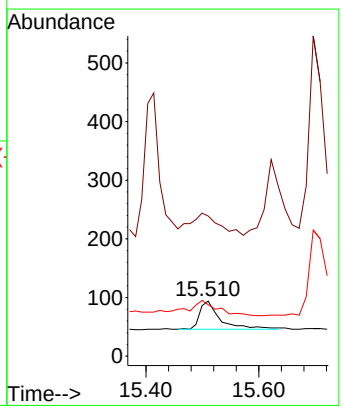


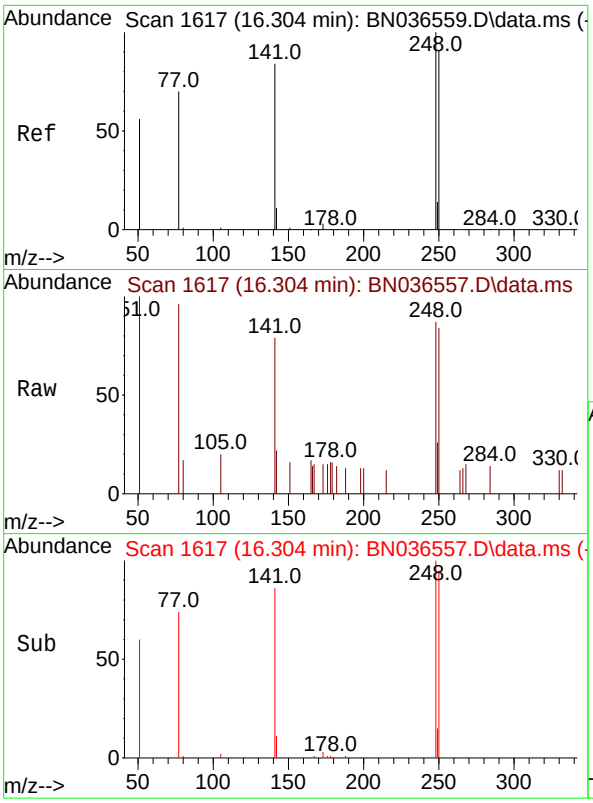


#20
4,6-Dinitro-2-methylphenol
Concen: 0.204 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#



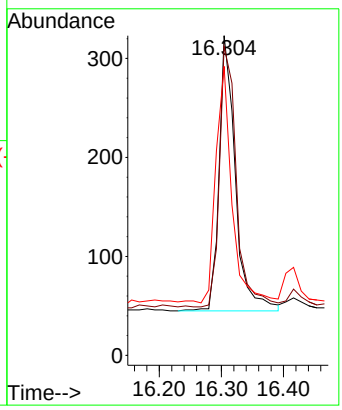


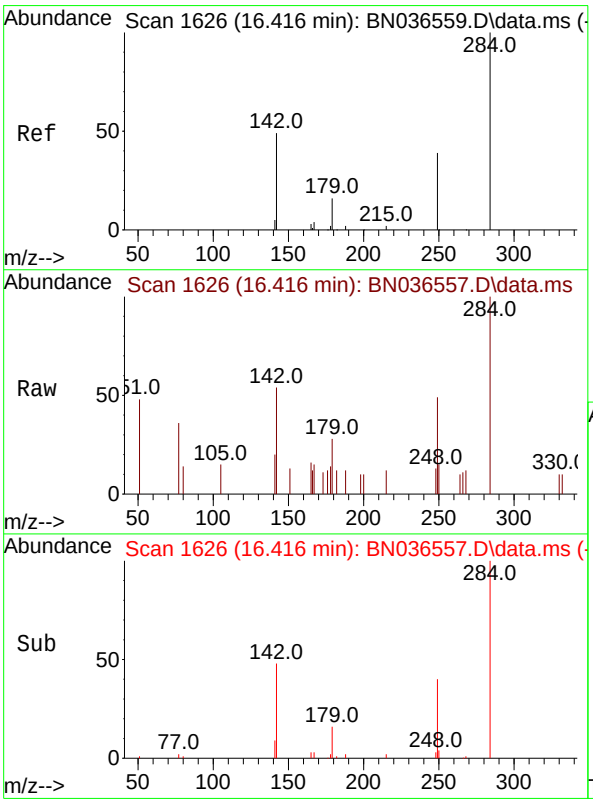
#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

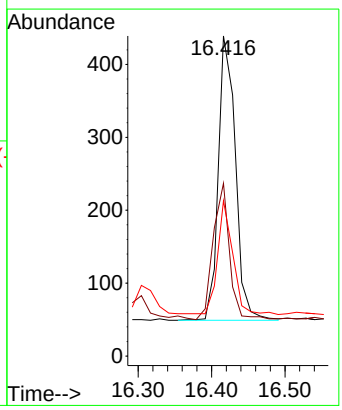


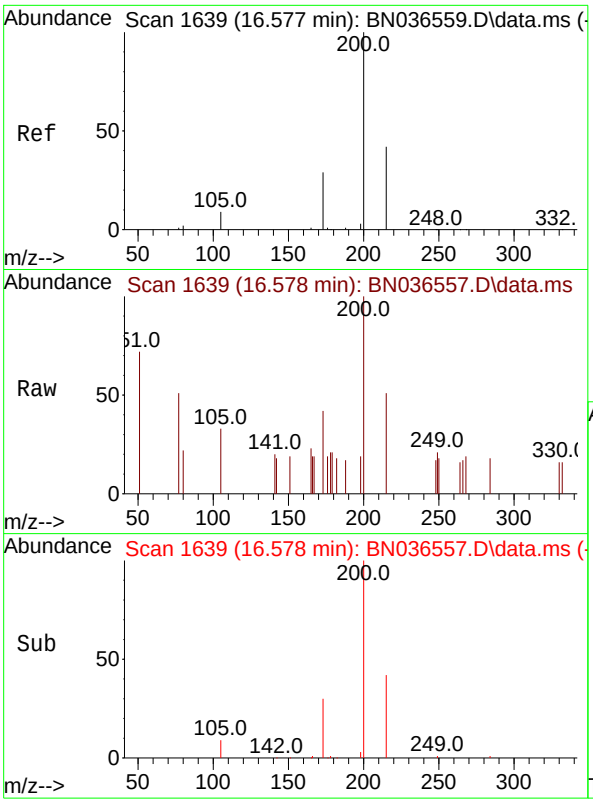


#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



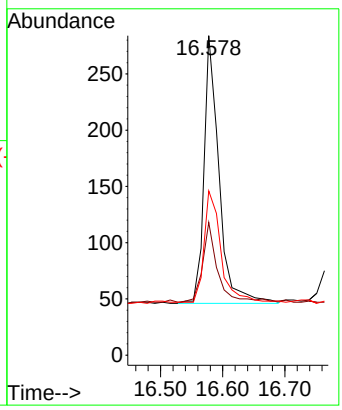


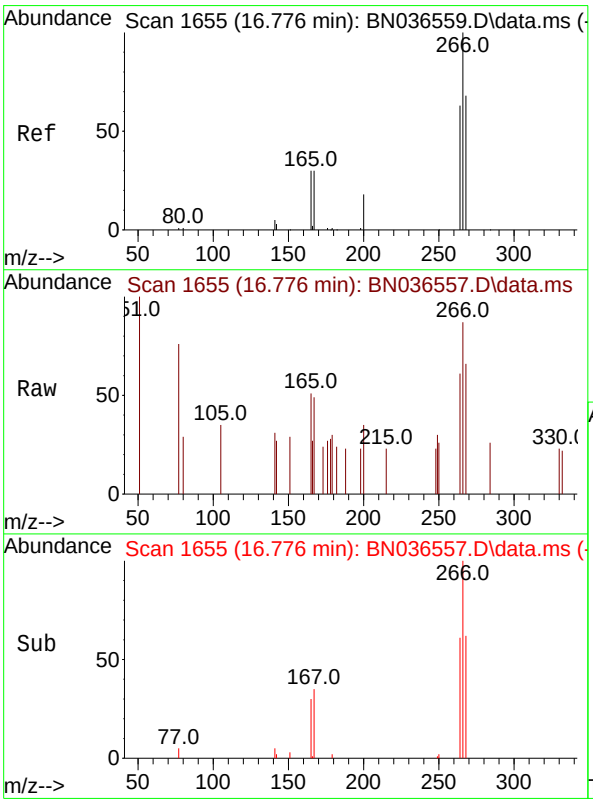
#23
Atrazine
Concen: 0.096 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

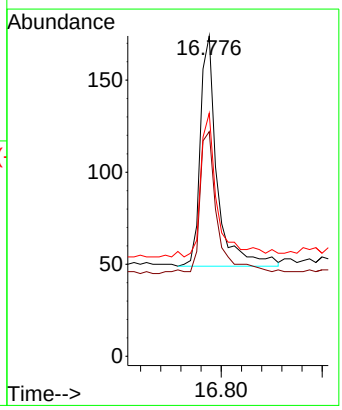


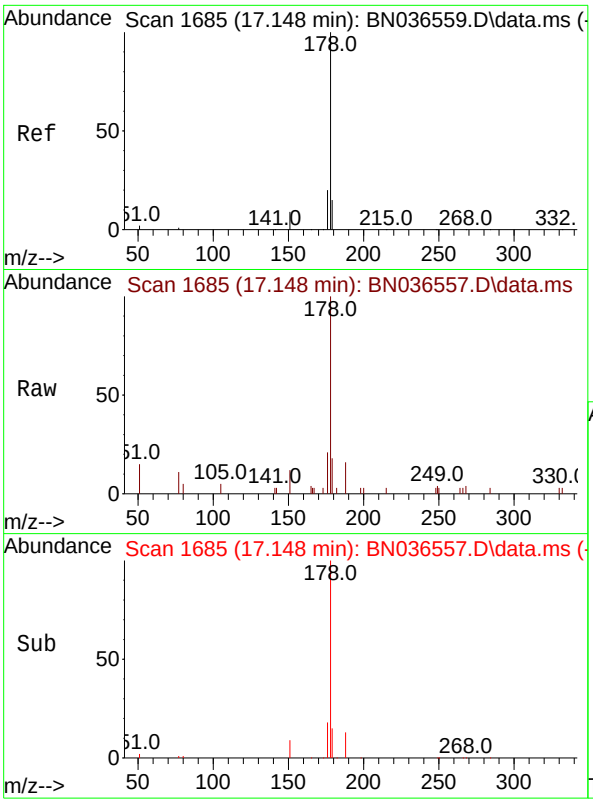


#24
Pentachlorophenol
Concen: 0.102 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



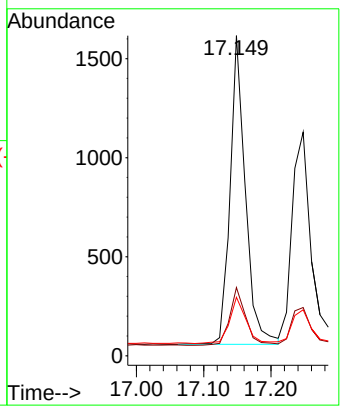


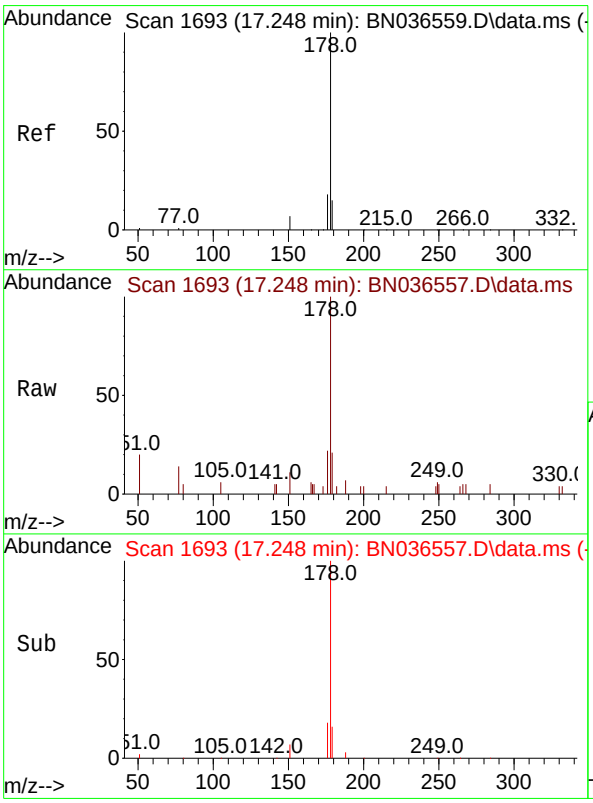
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

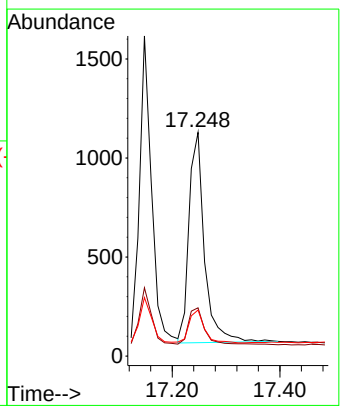


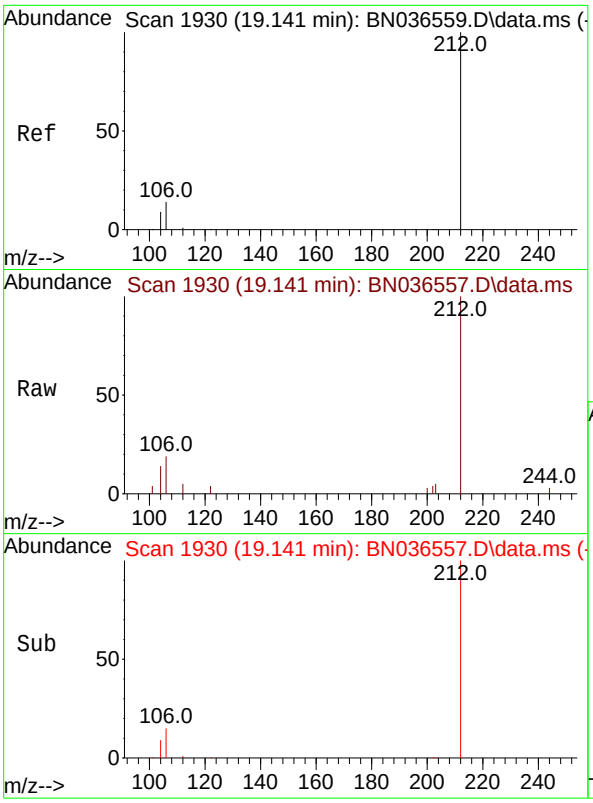


#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



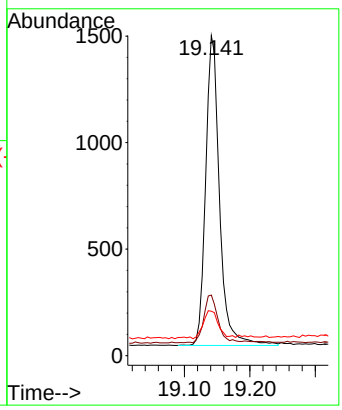


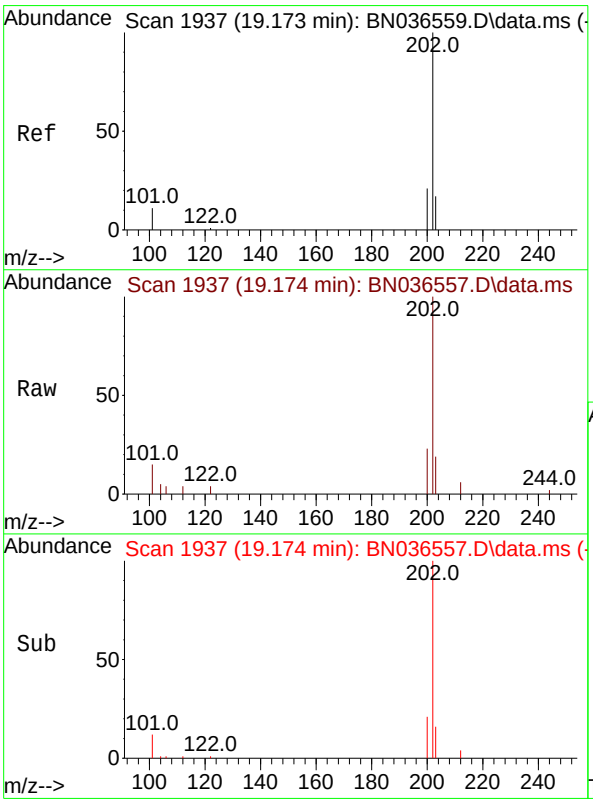
#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

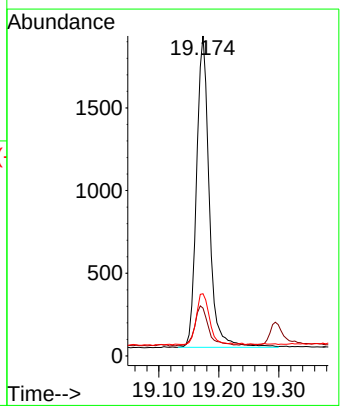


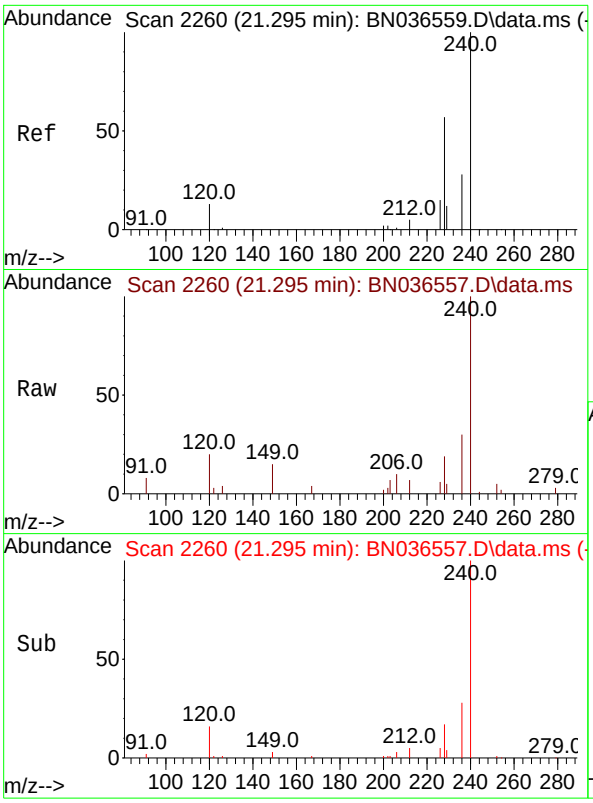


#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



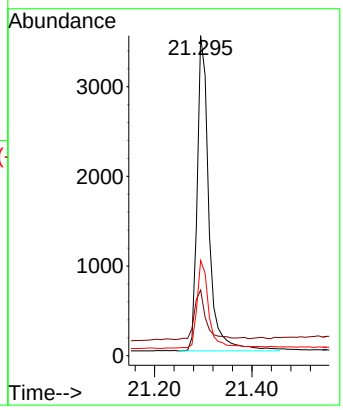


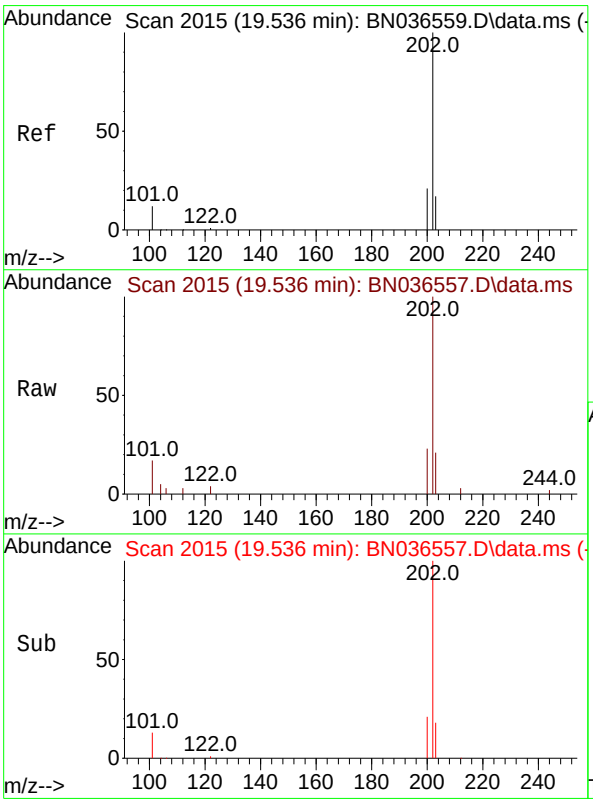
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

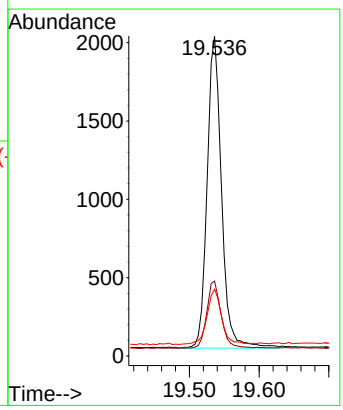


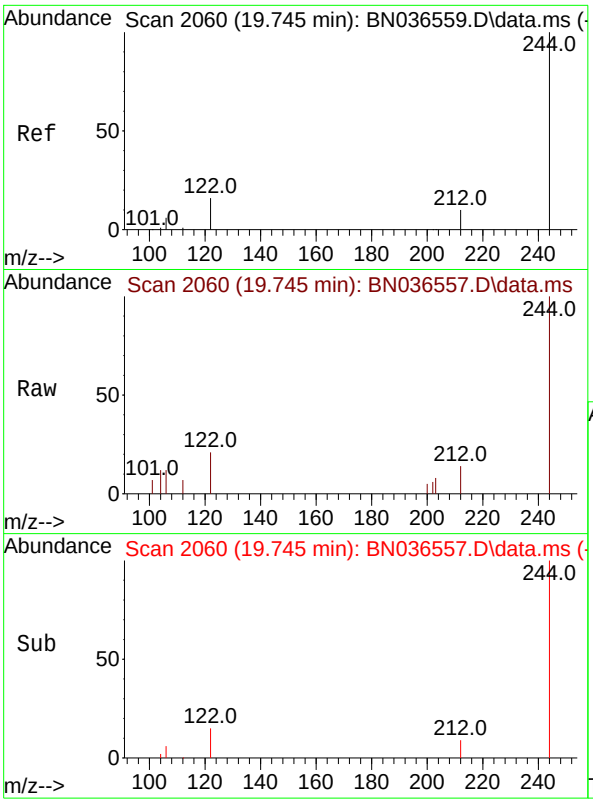


#30
Pyrene
Concen: 0.099 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



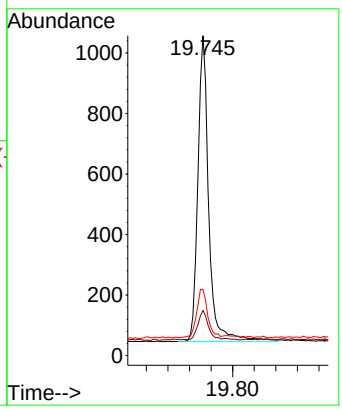


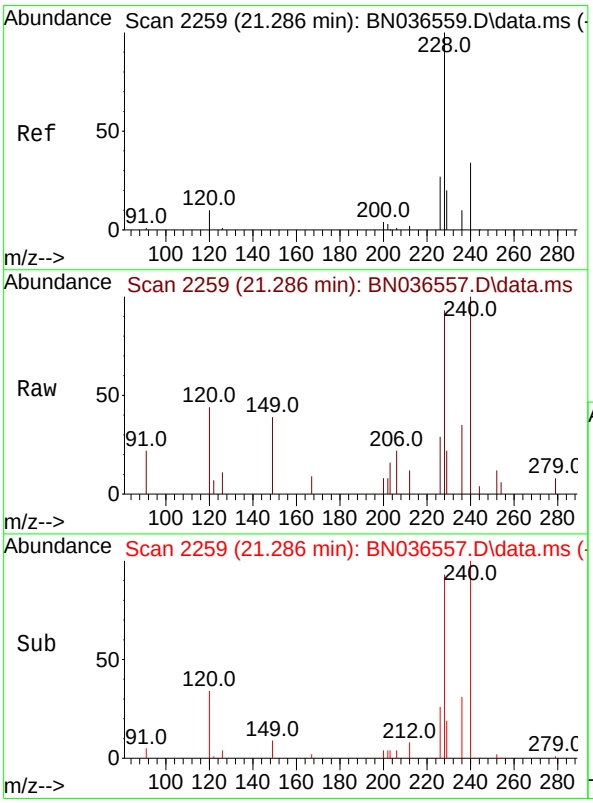
#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

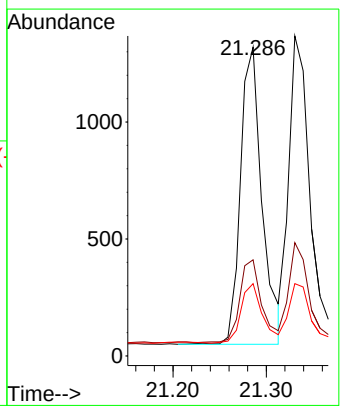


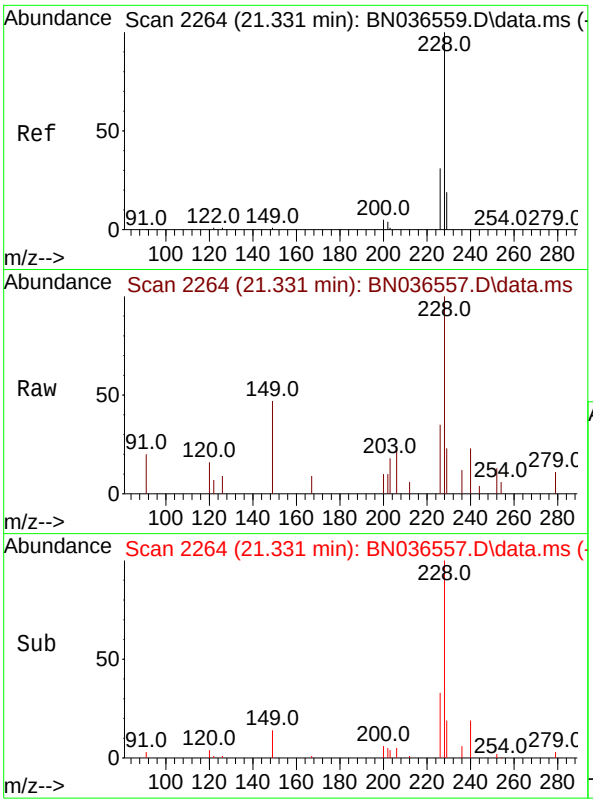


#32
Benzo(a)anthracene
Concen: 0.100 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



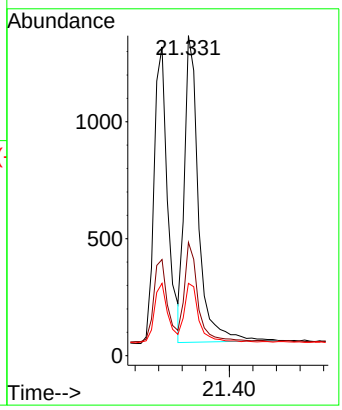


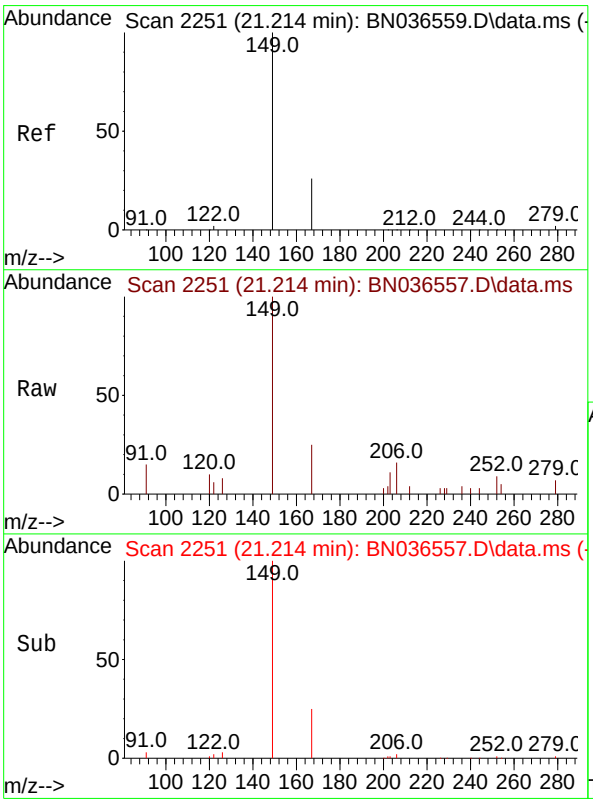
#33
Chrysene
Concen: 0.098 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

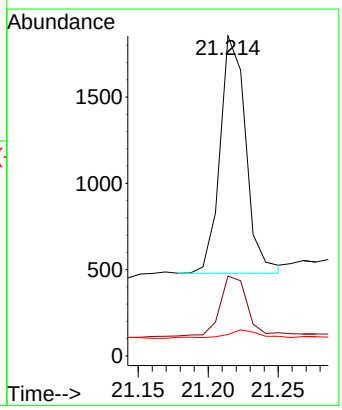


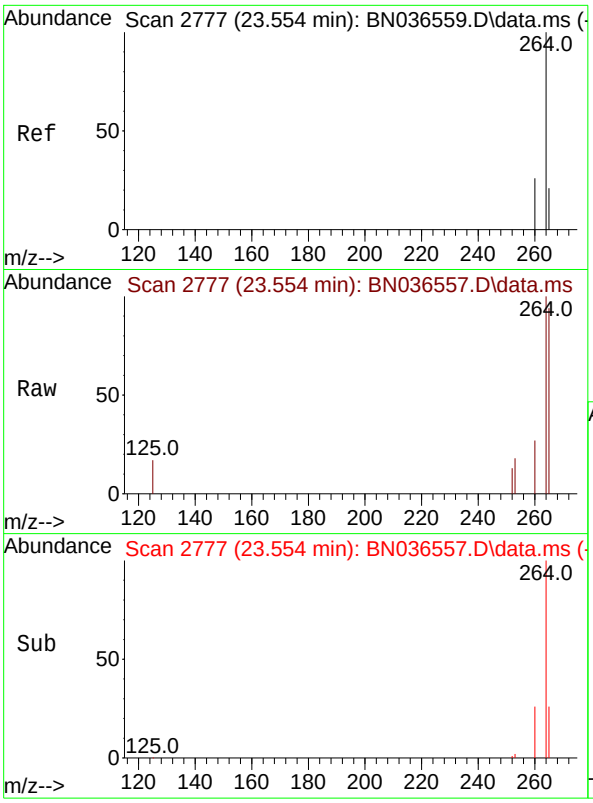


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.121 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



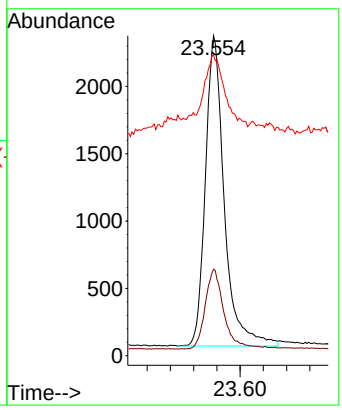


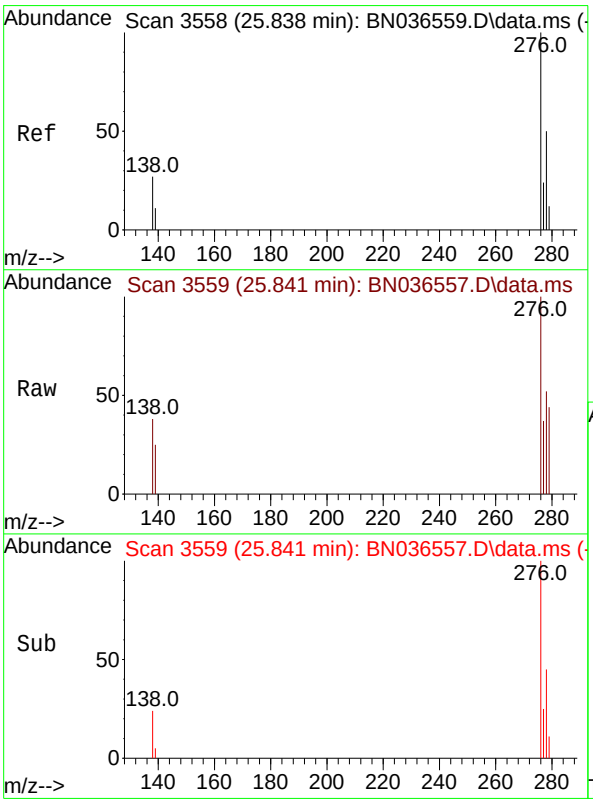
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

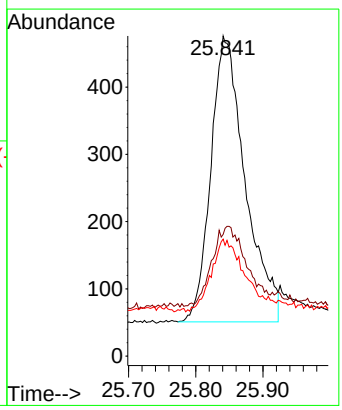


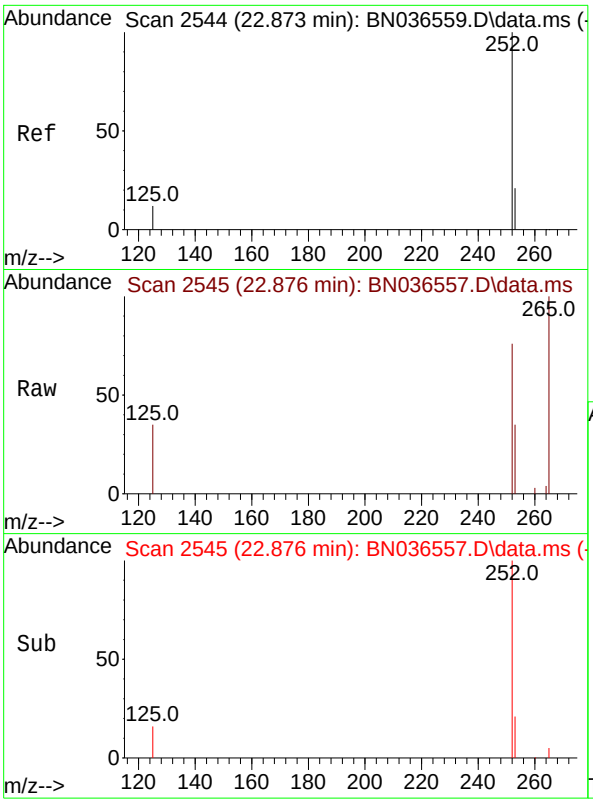


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.080 ng
RT: 25.841 min Scan# 3559
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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



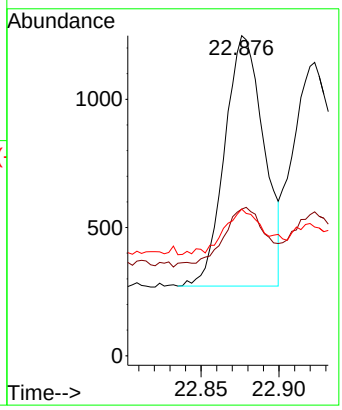


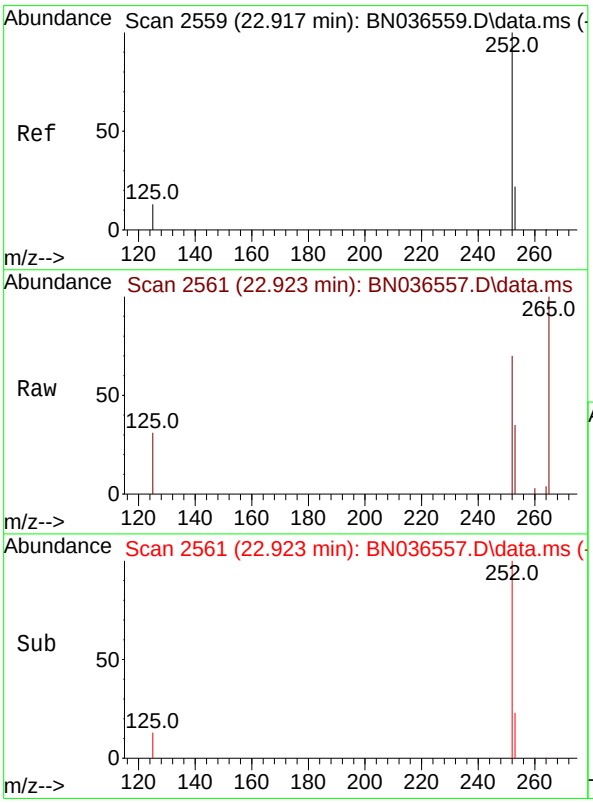
#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#

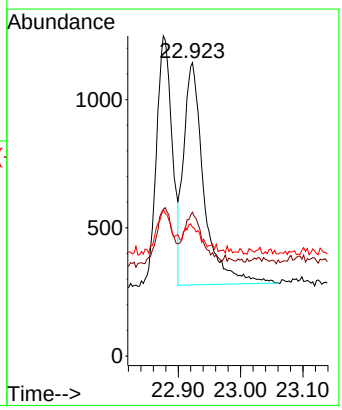


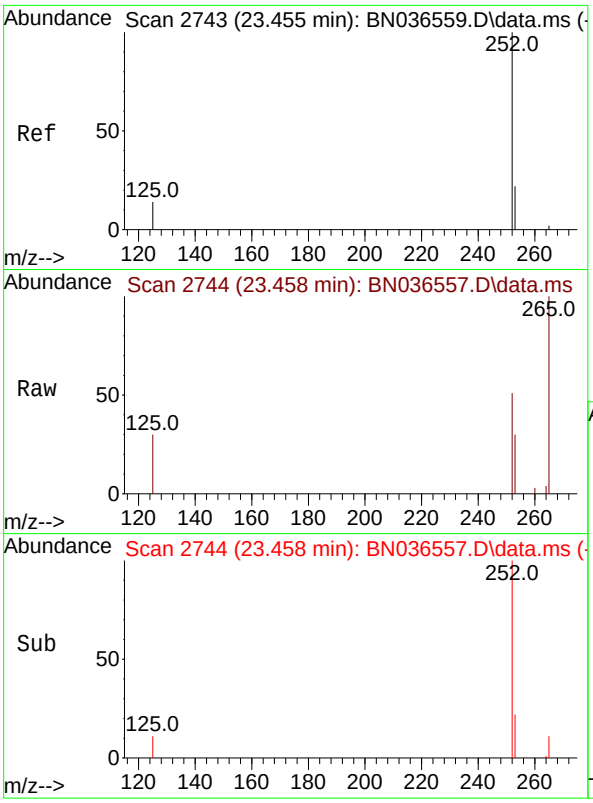


#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#



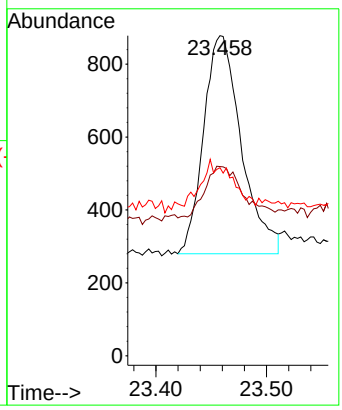


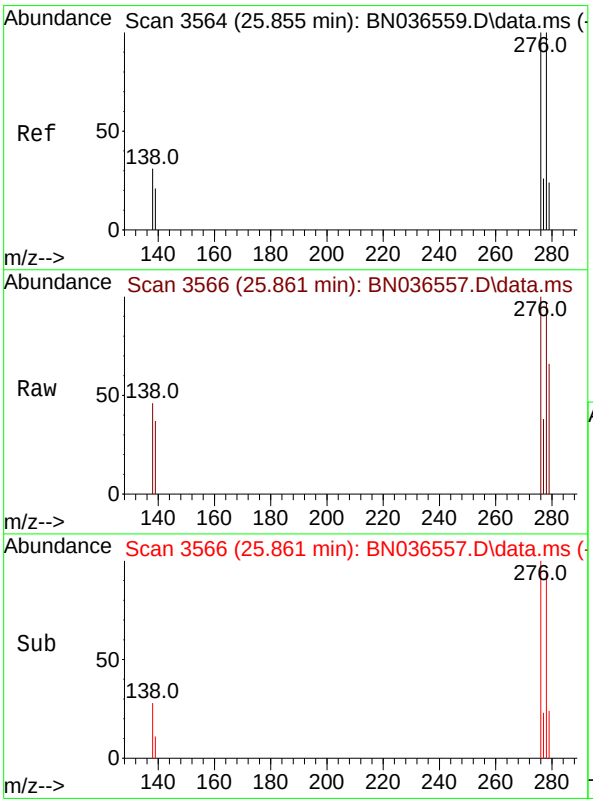
#39
Benzo(a)pyrene
Concen: 0.089 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#

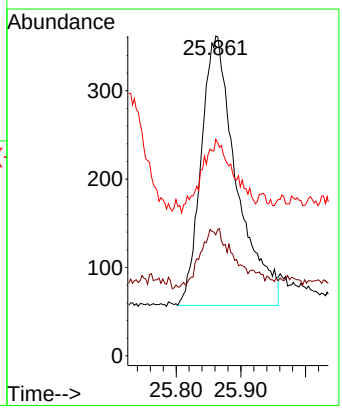


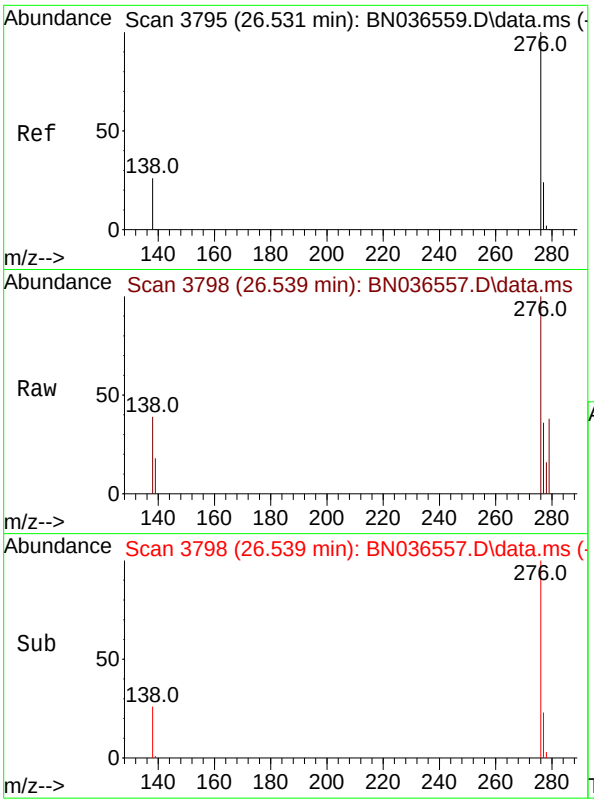


#40
Dibenzo(a,h)anthracene
Concen: 0.079 ng
RT: 25.861 min Scan# 3566
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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#



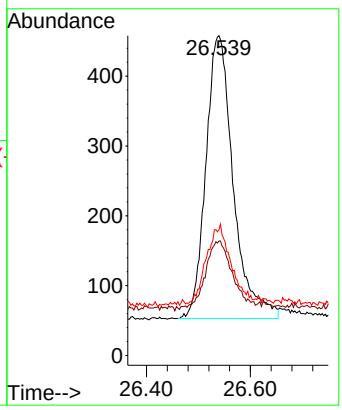


#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.539 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

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

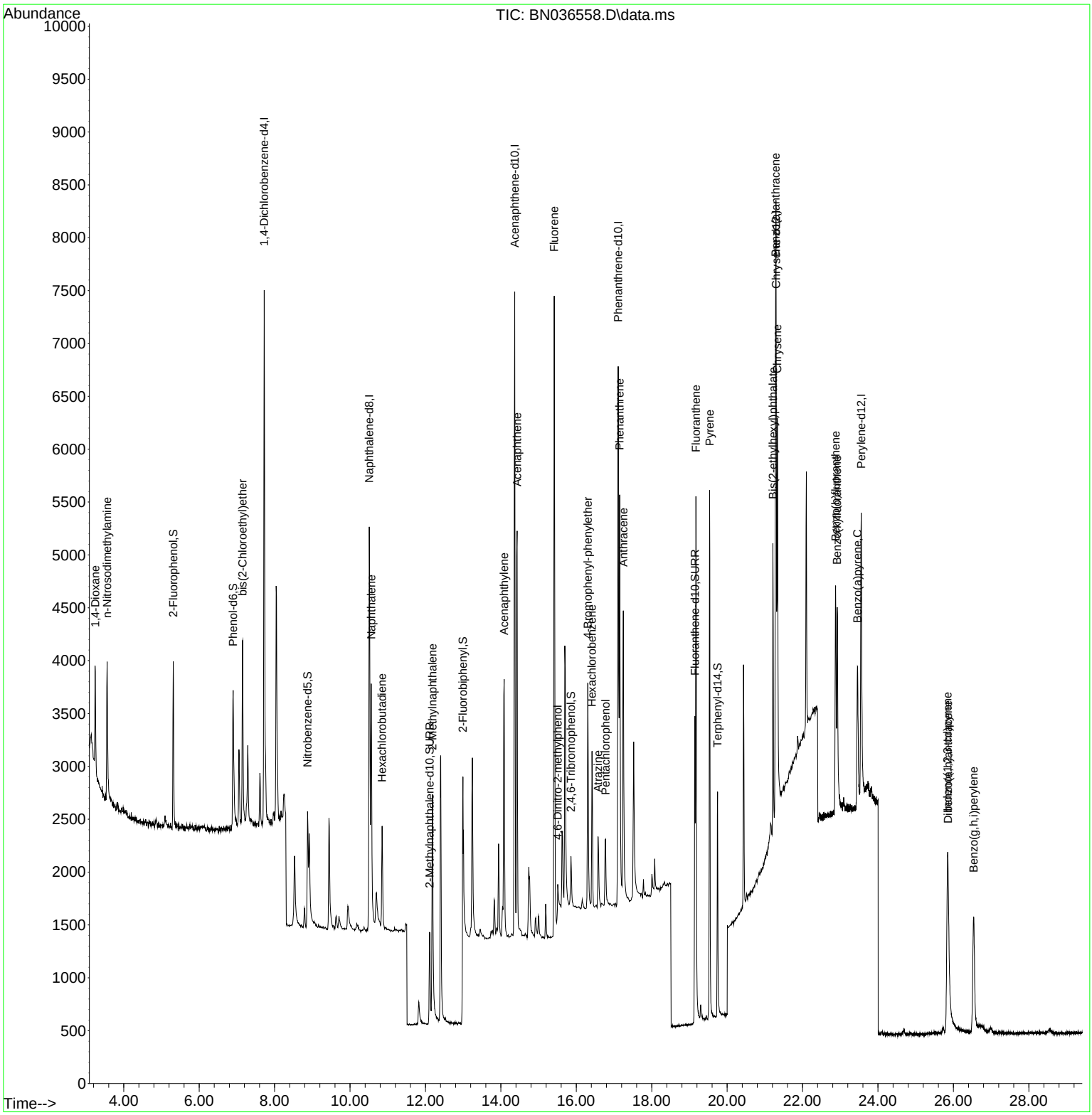
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng		0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng		0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng		0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng		0.00
29) Chrysene-d12	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

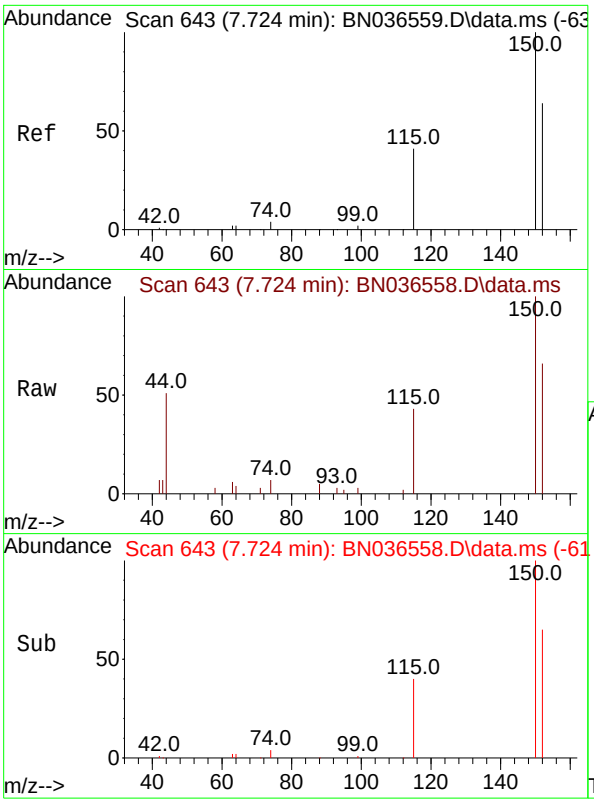
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



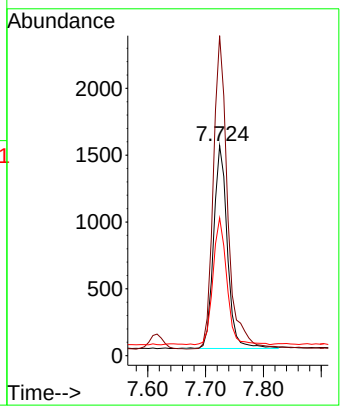


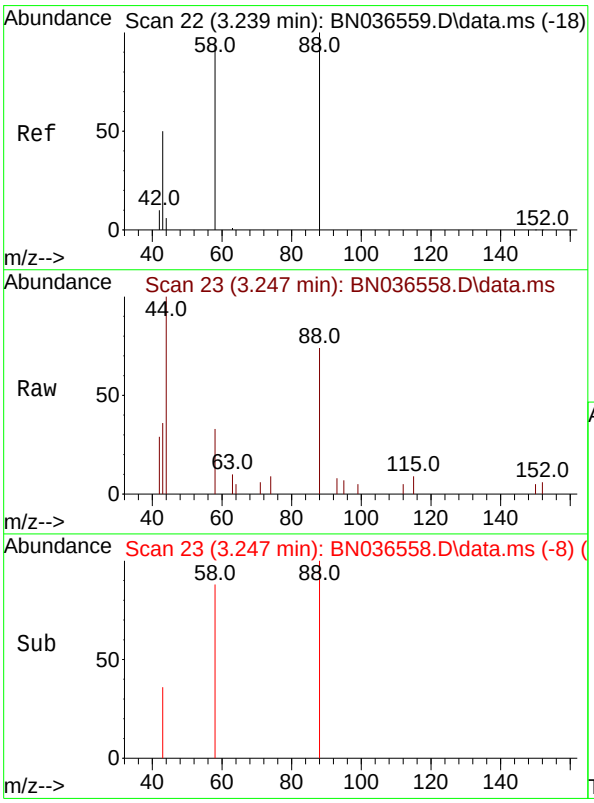
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

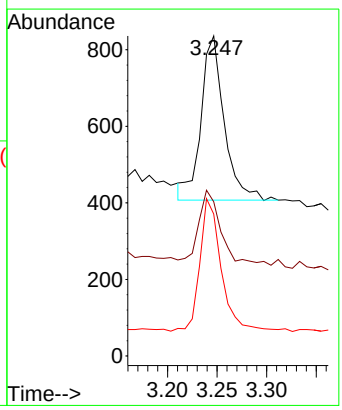


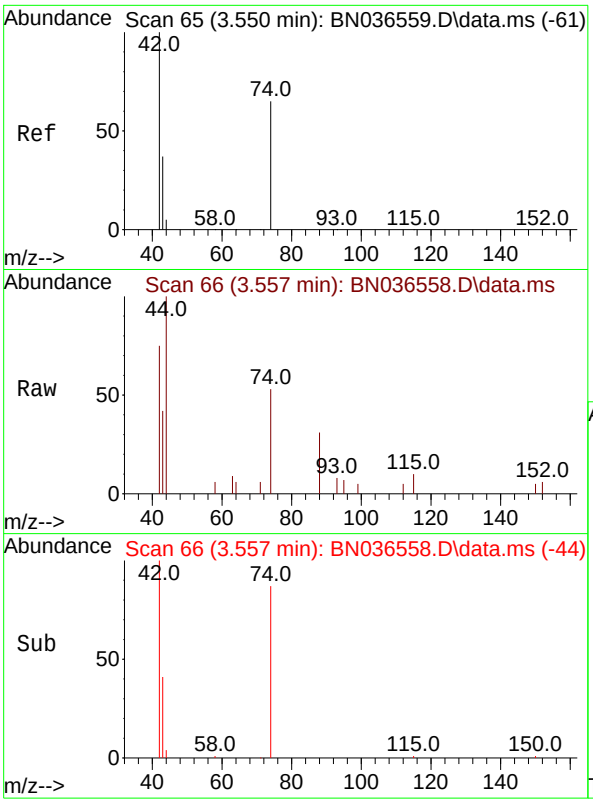


#2
1,4-Dioxane
Concen: 0.252 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



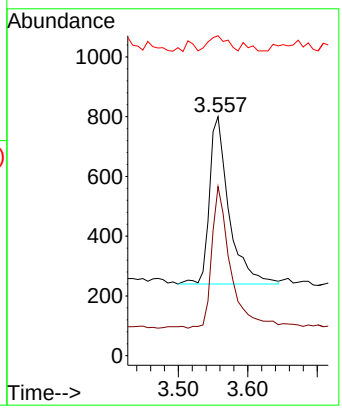


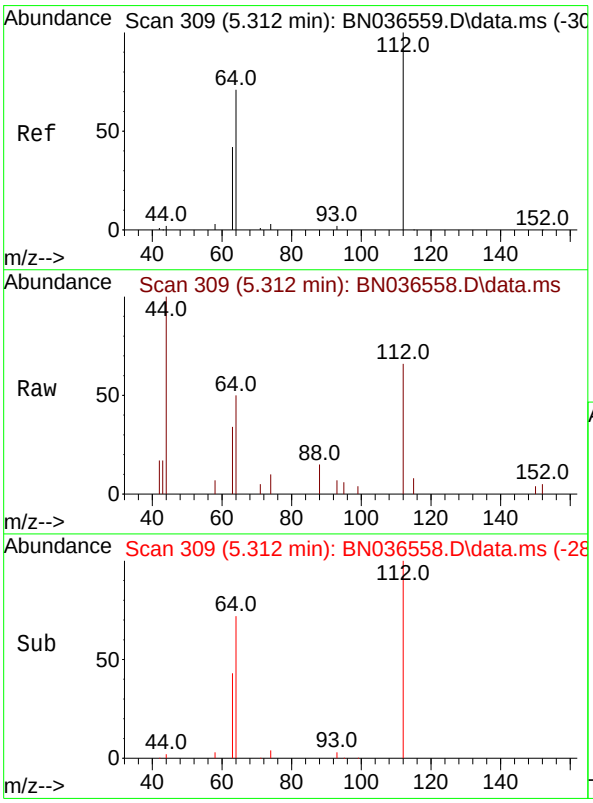
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

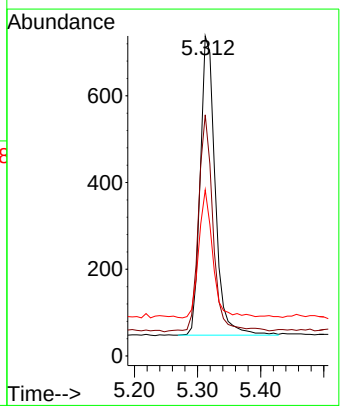


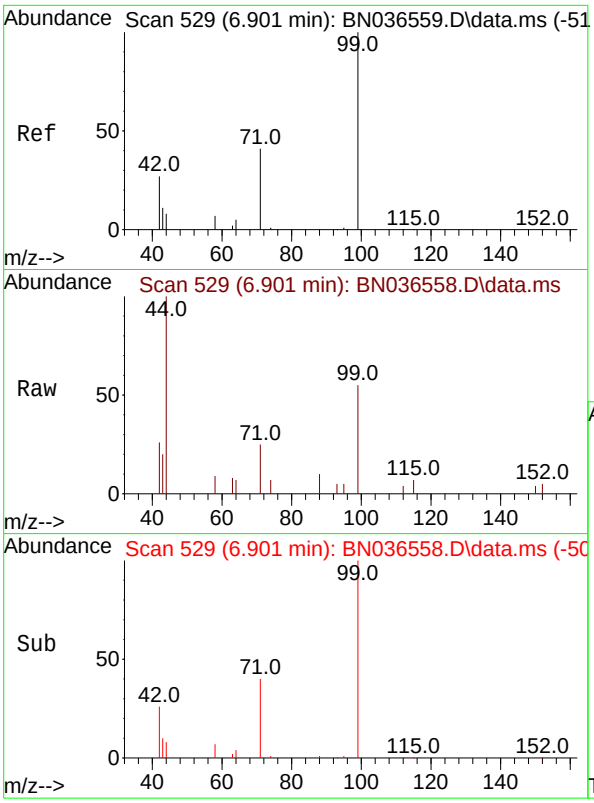


#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



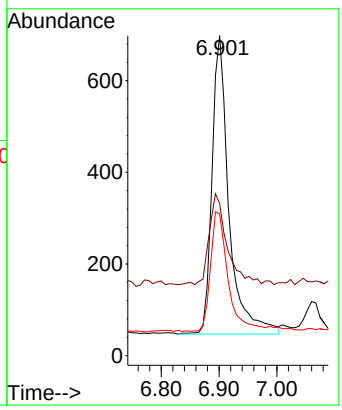


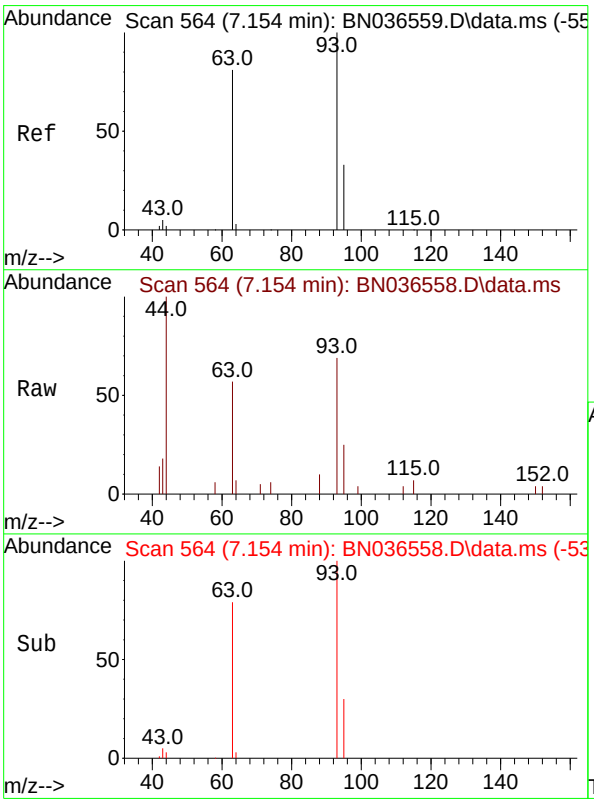
#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

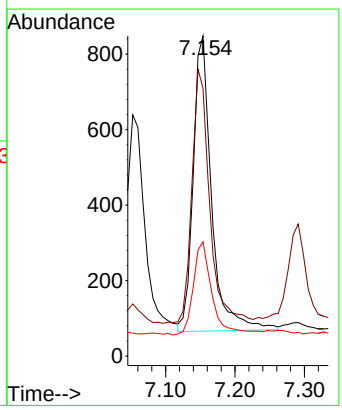


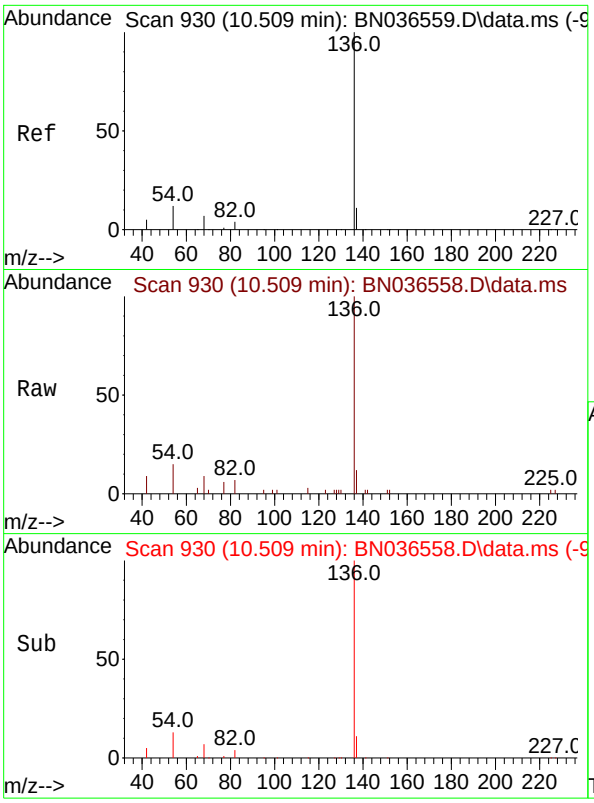


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



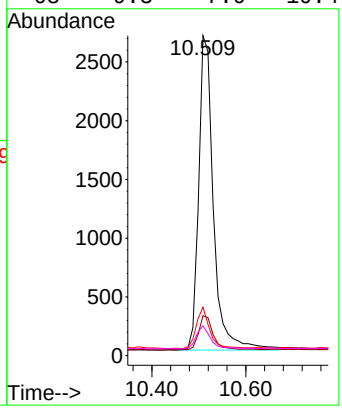


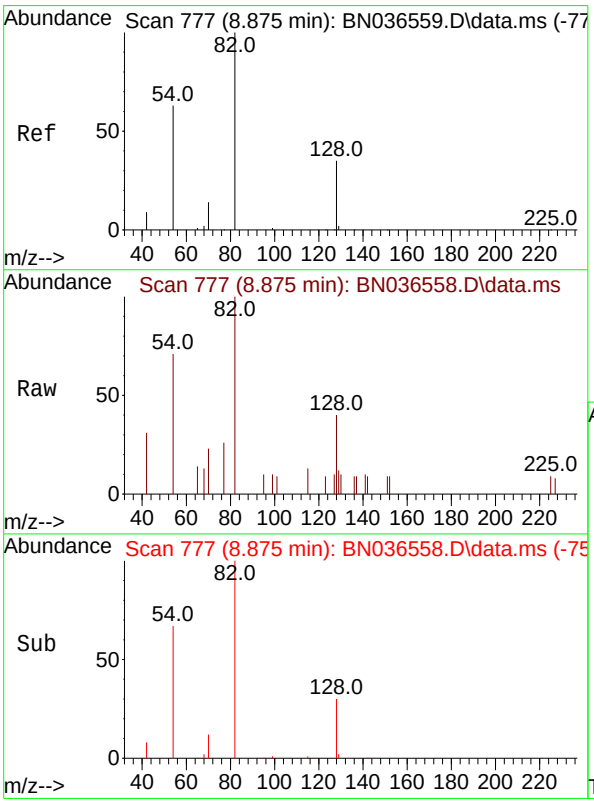
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

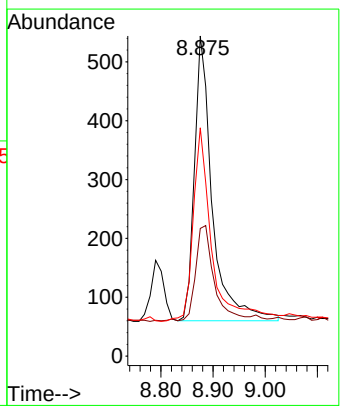


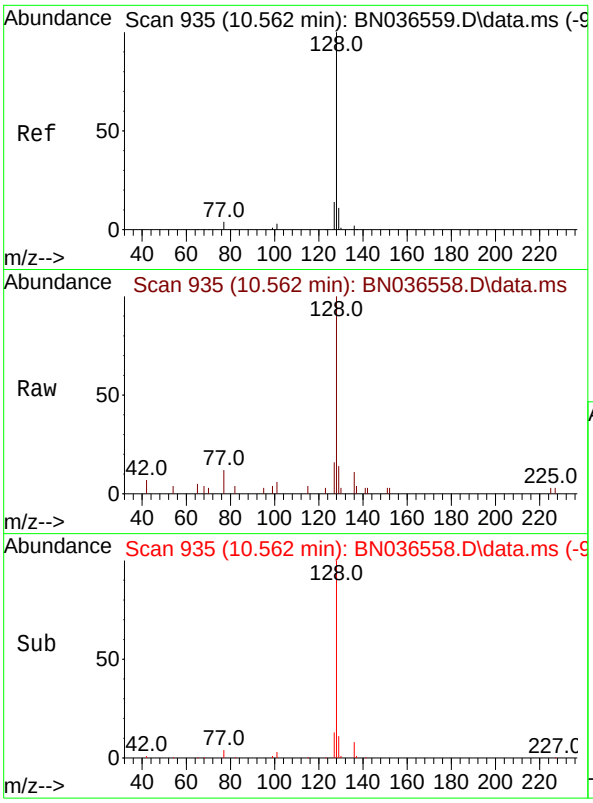


#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



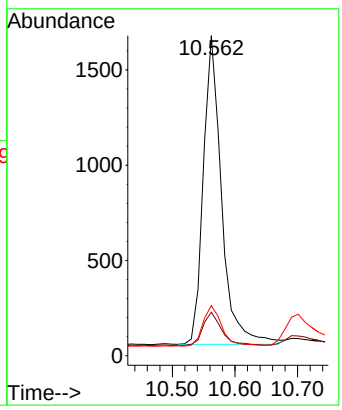


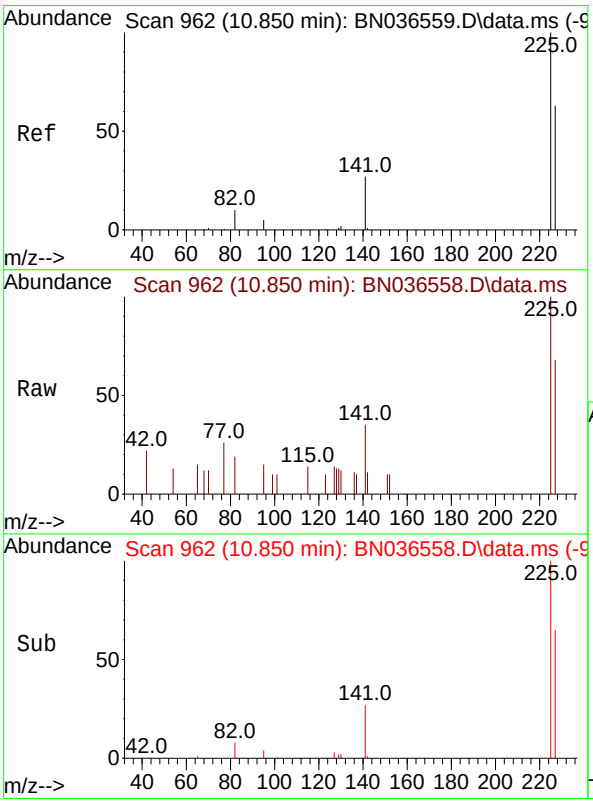
#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

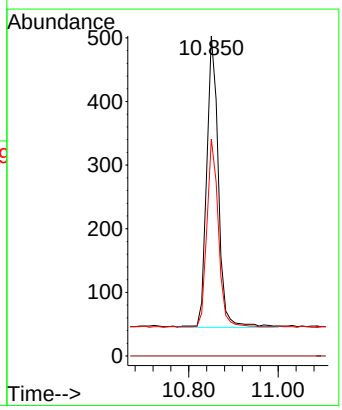


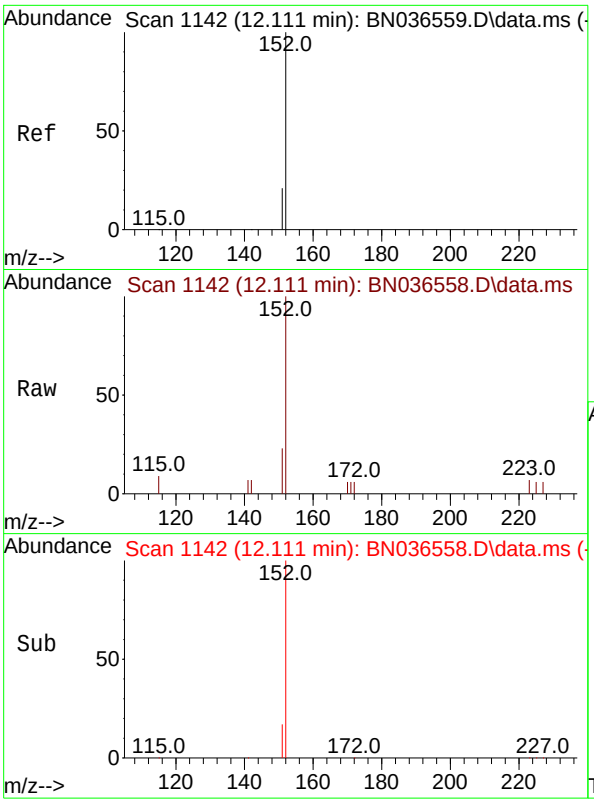


#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



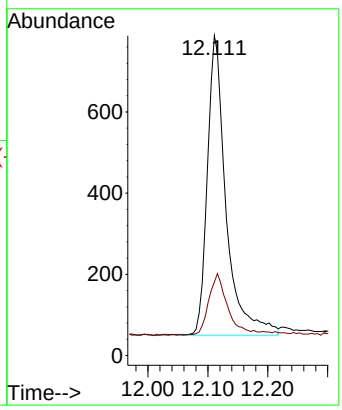


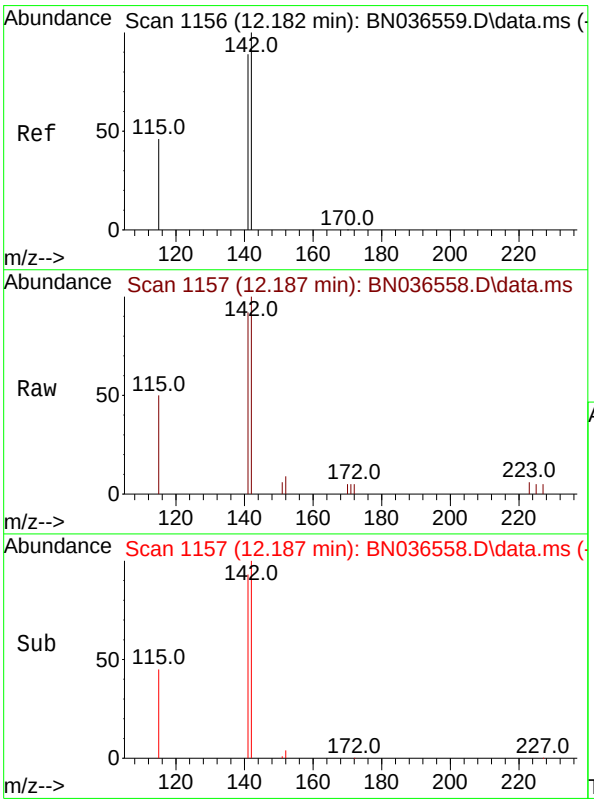
#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1603

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

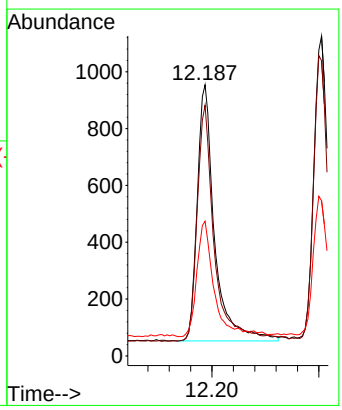


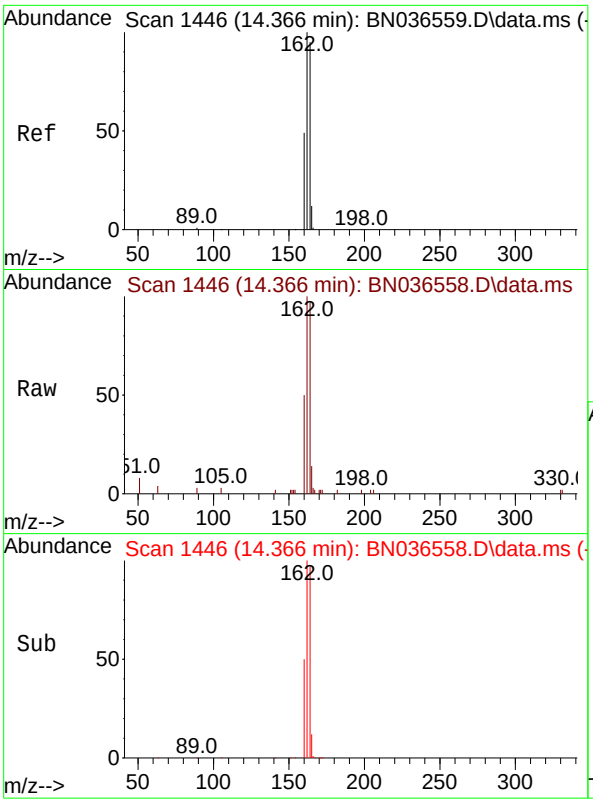


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



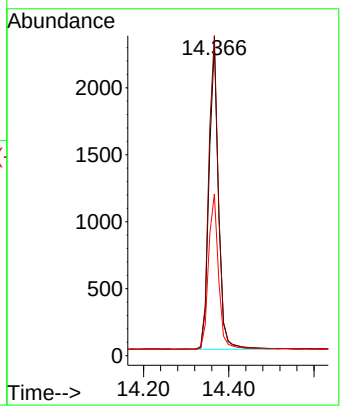


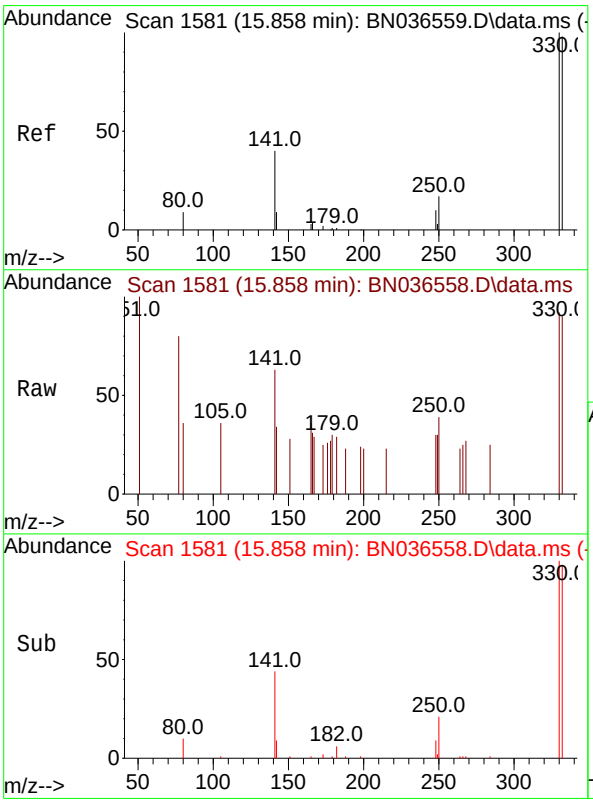
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

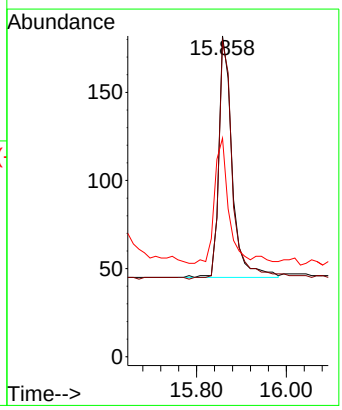


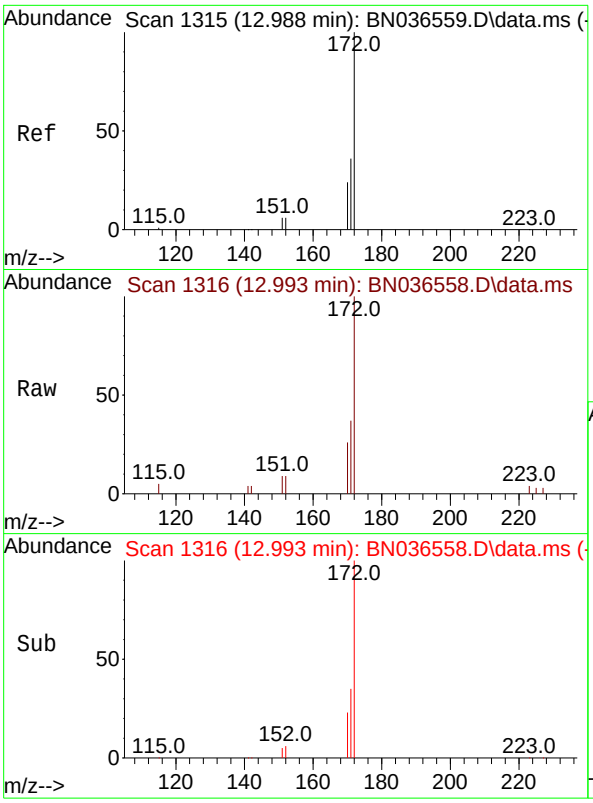


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



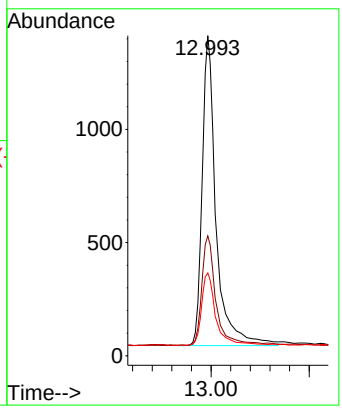


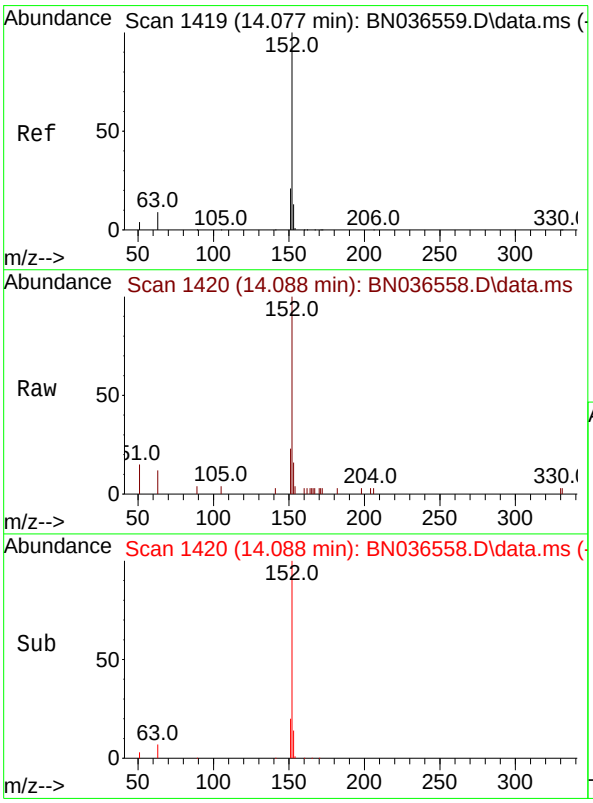
#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

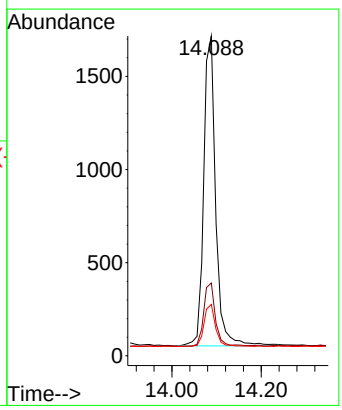


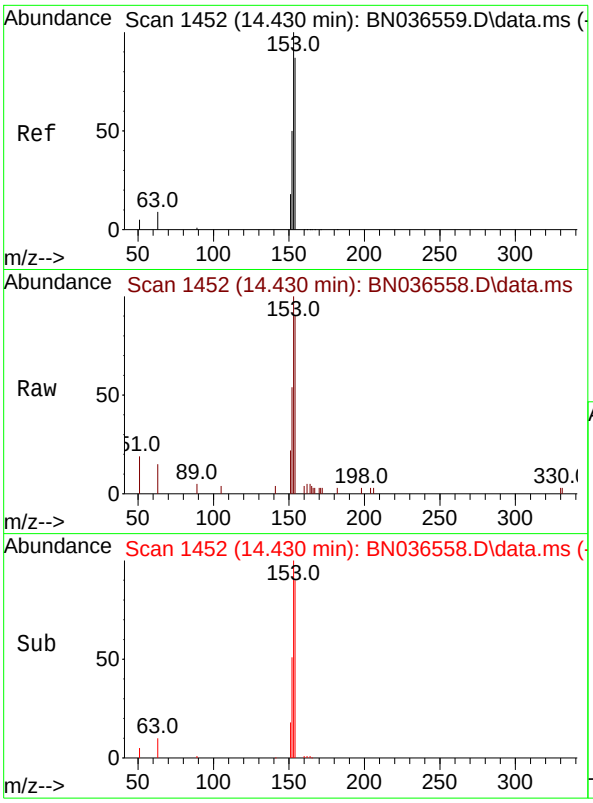


#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



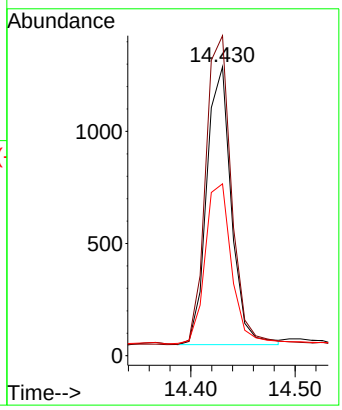


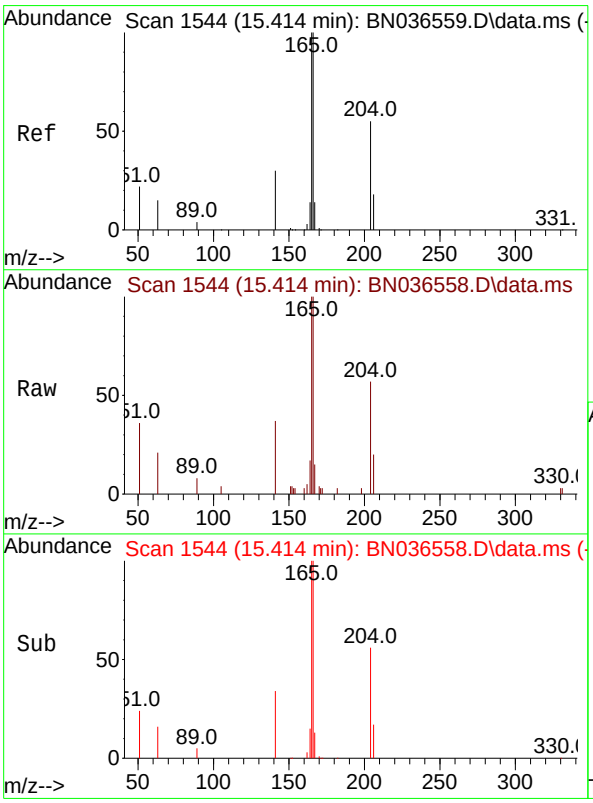
#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

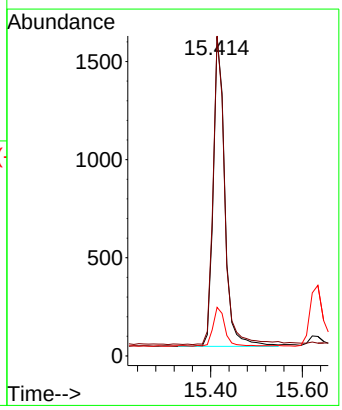


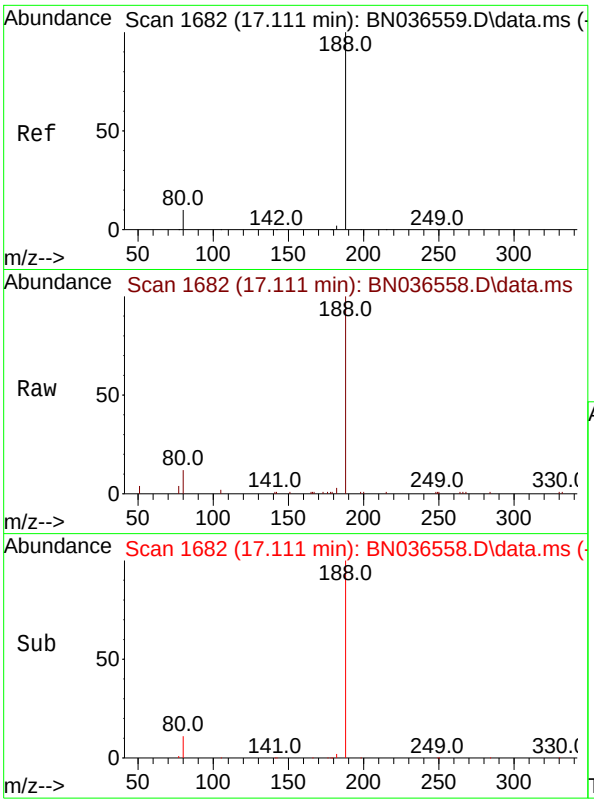


#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



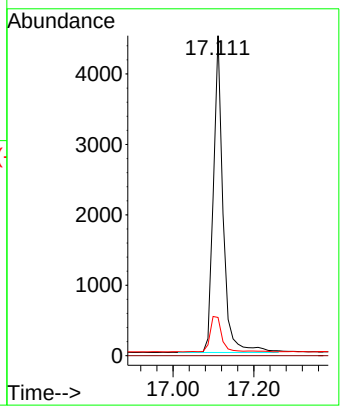


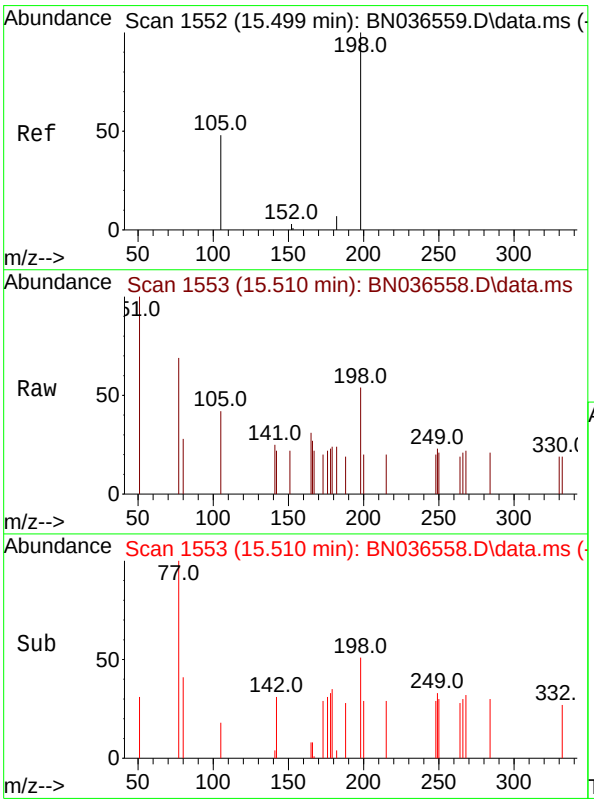
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

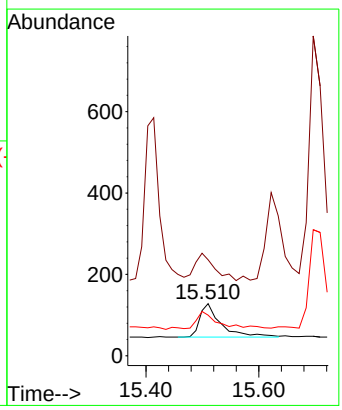


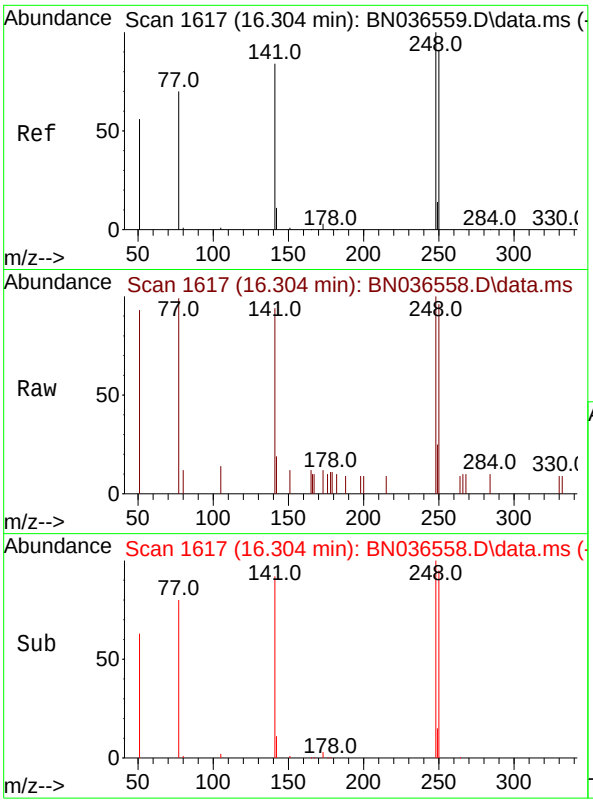


#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



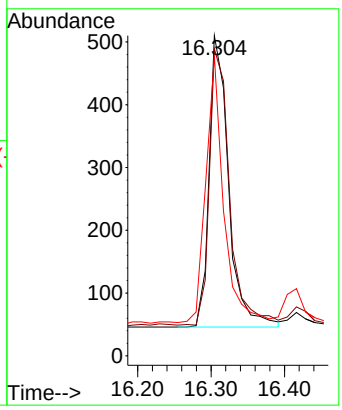


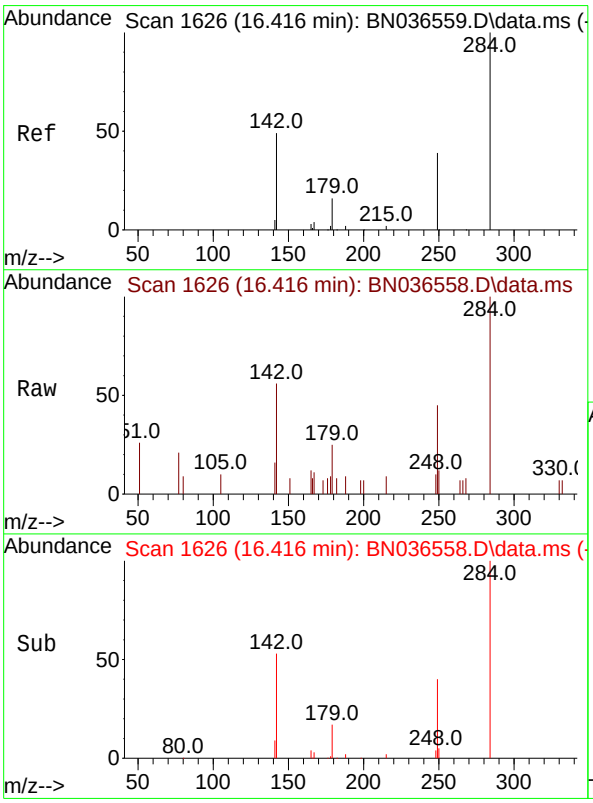
#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

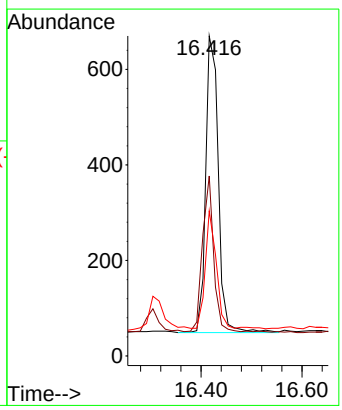


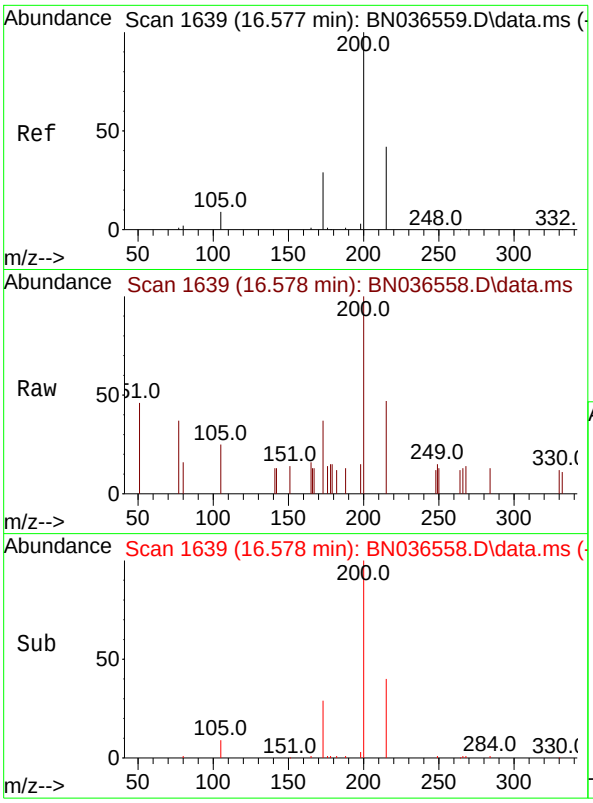


#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



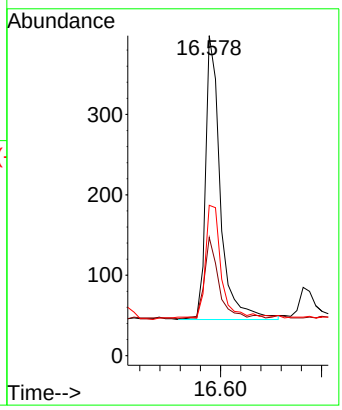


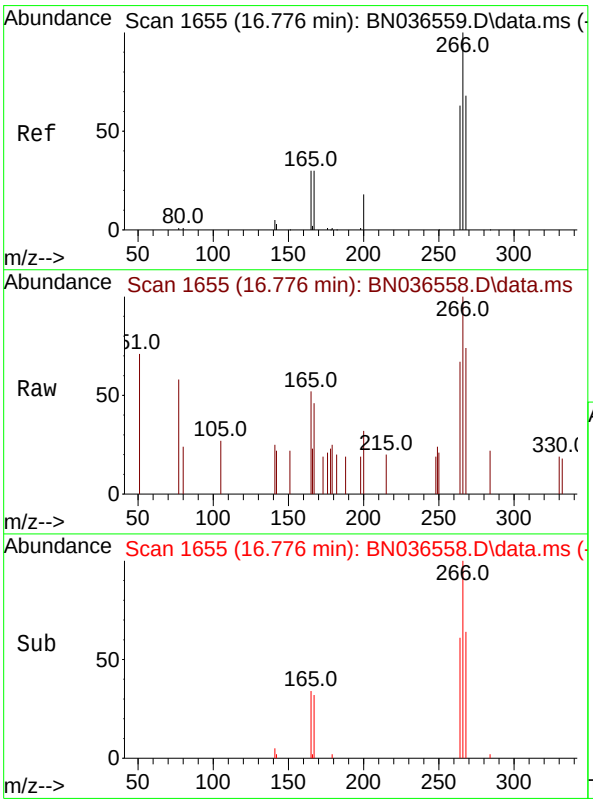
#23
Atrazine
Concen: 0.190 ng
RT: 16.578 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

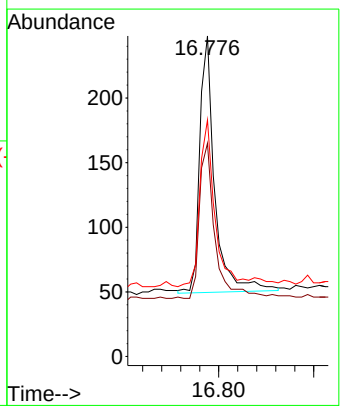


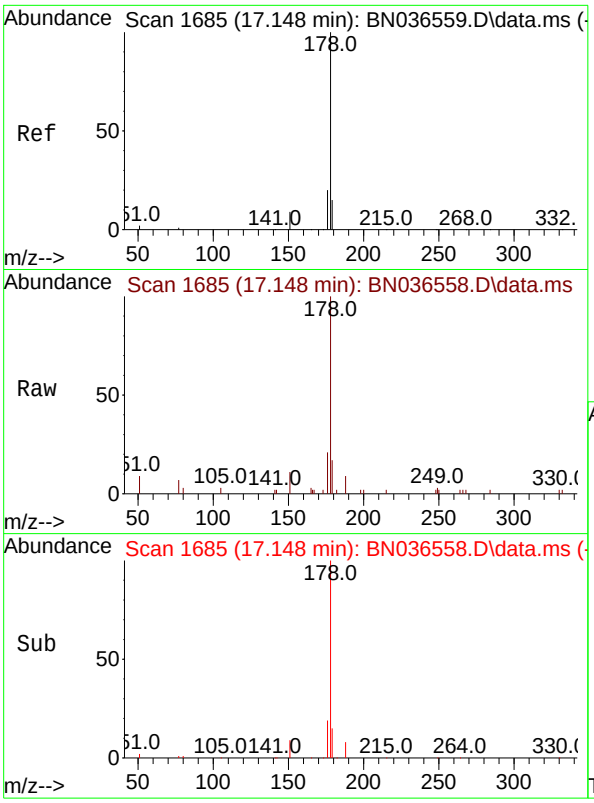


#24
Pentachlorophenol
Concen: 0.168 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



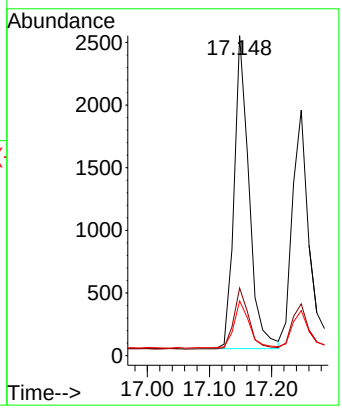


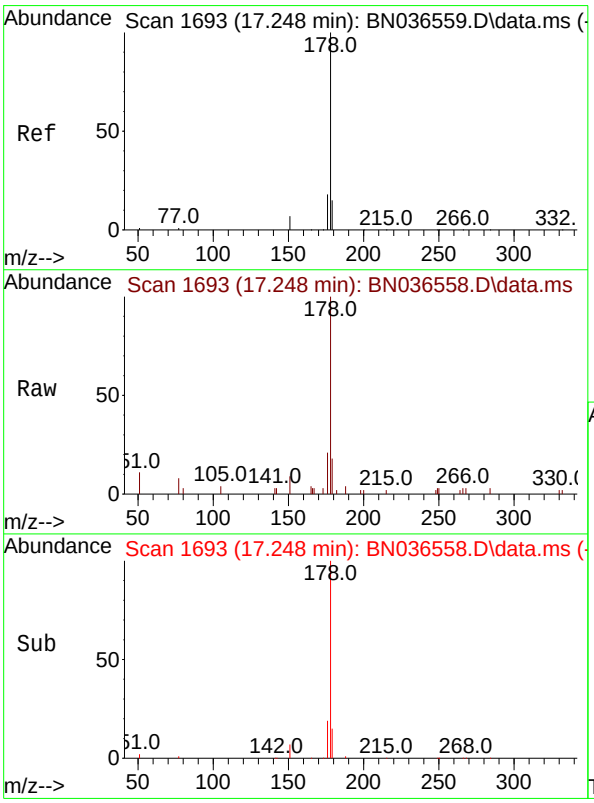
#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

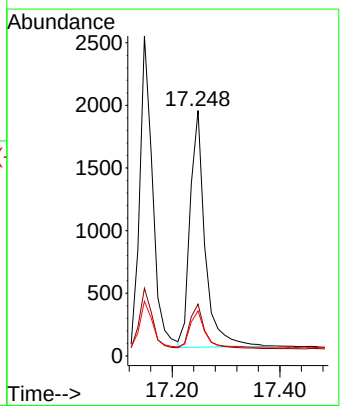


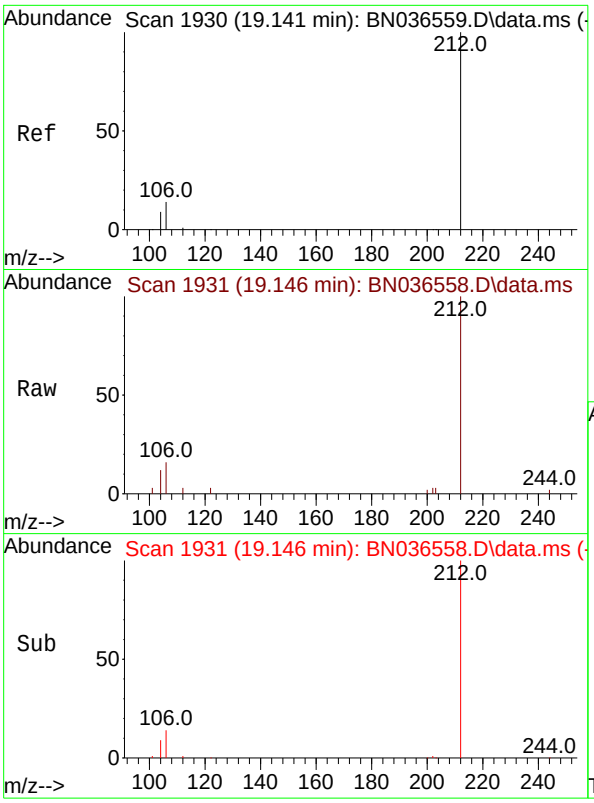


#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



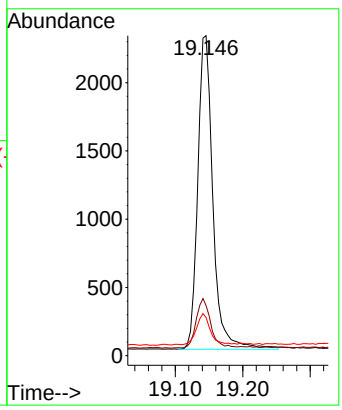


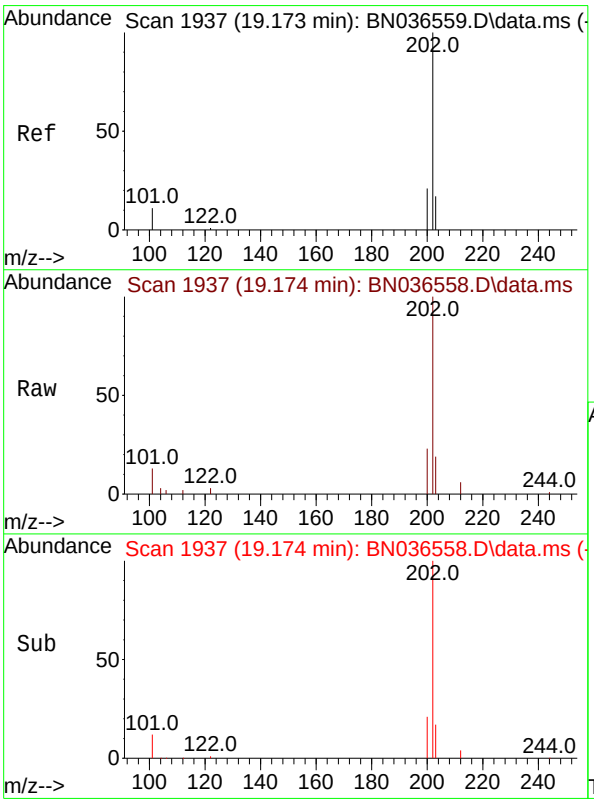
#27
Fluoranthene-d10
Concen: 0.186 ng
RT: 19.146 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

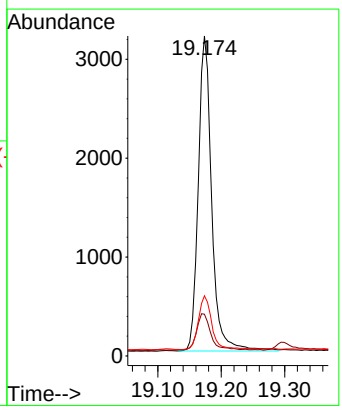


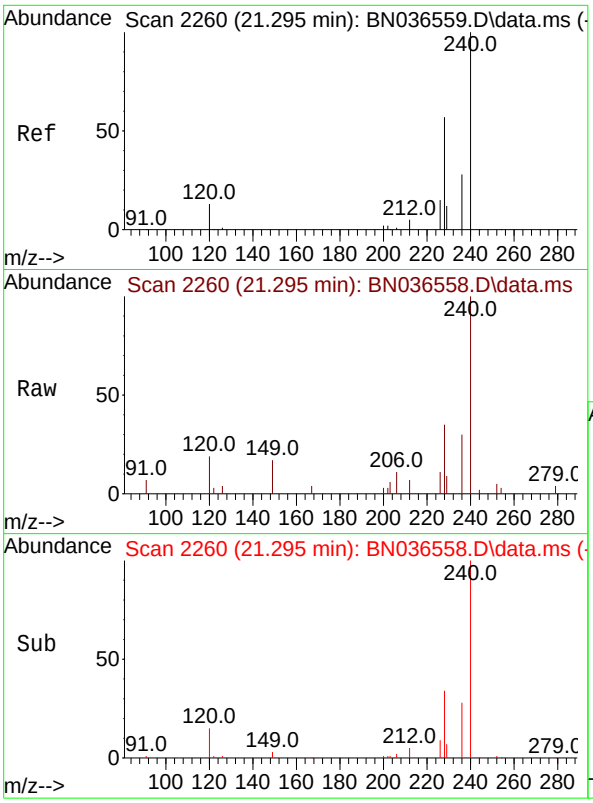


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



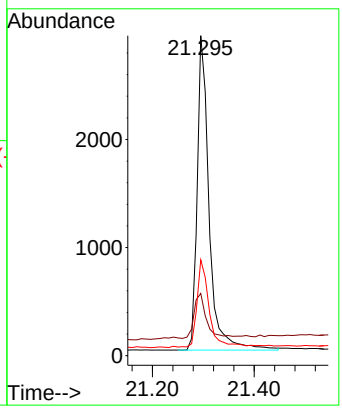


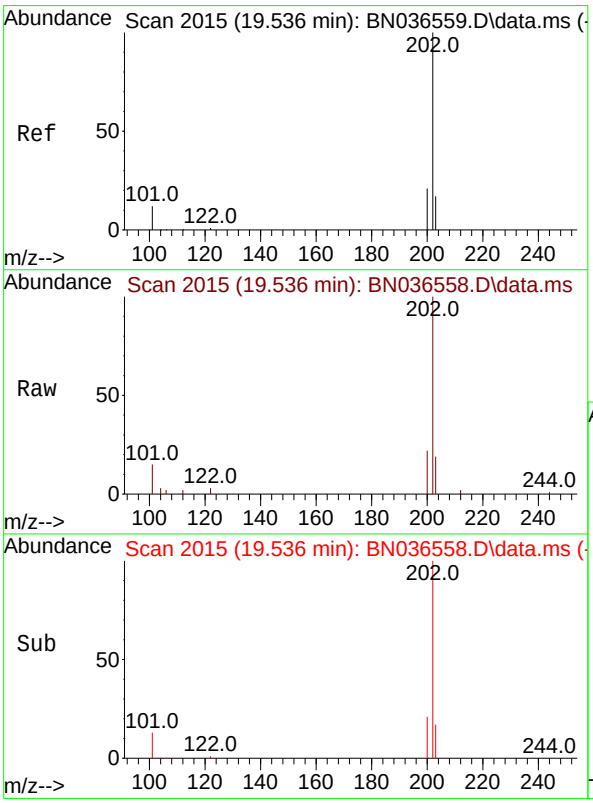
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

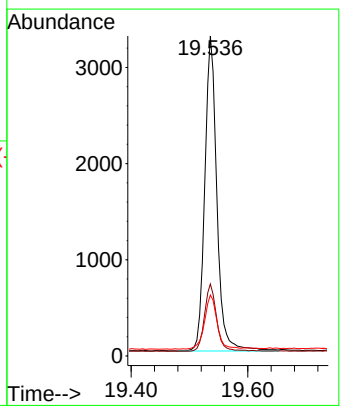


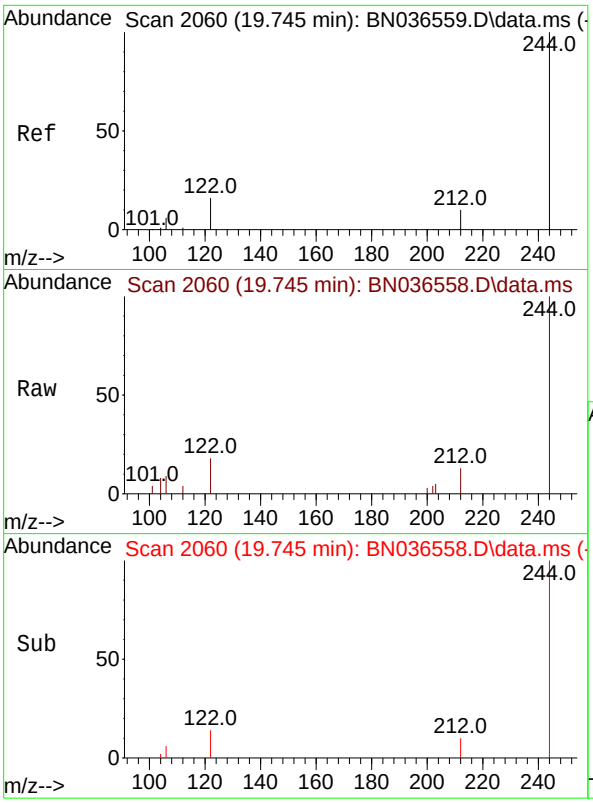


#30
Pyrene
Concen: 0.205 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



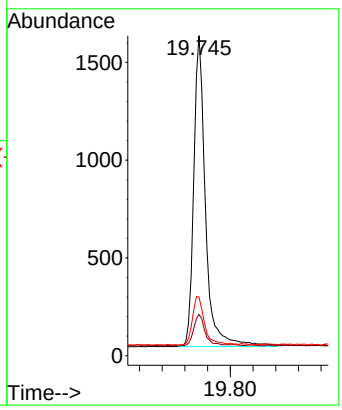


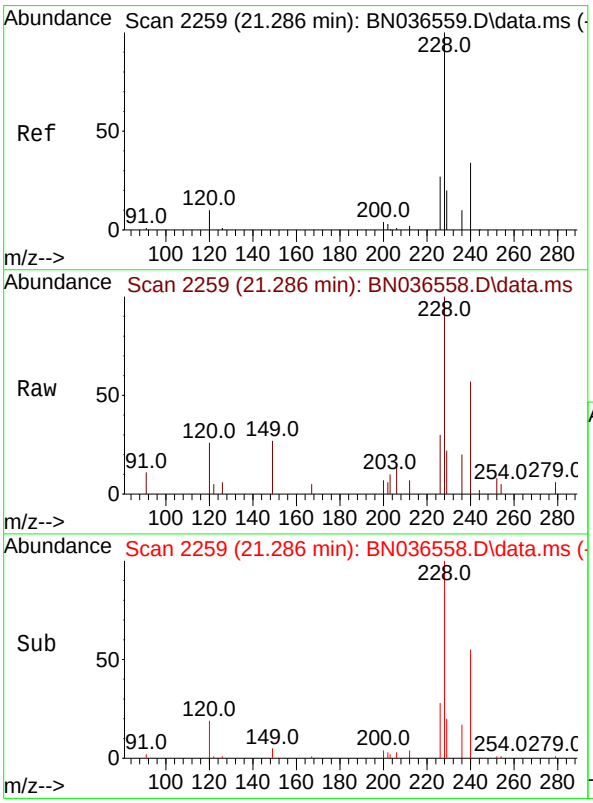
#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

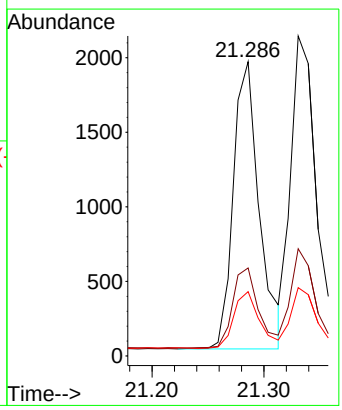


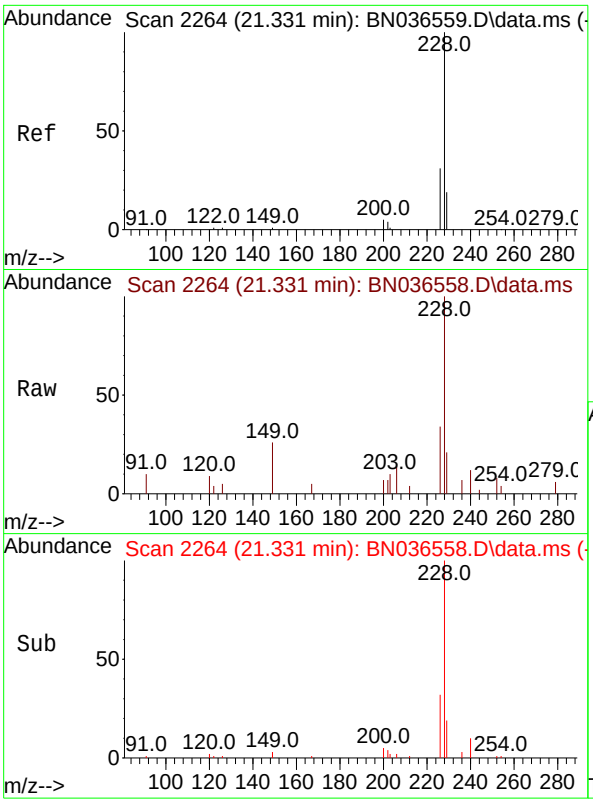


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



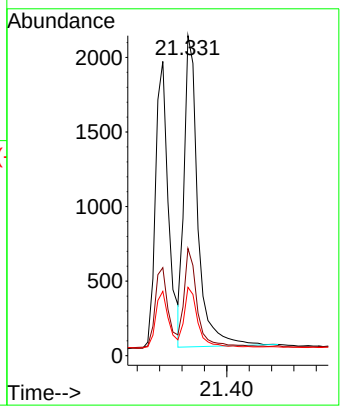


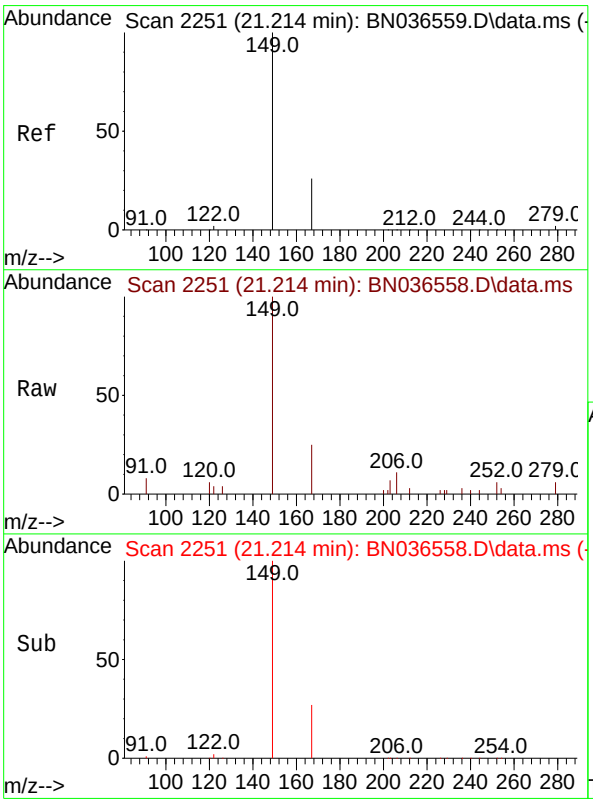
#33
Chrysene
Concen: 0.199 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

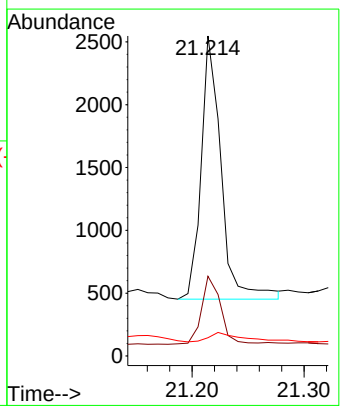


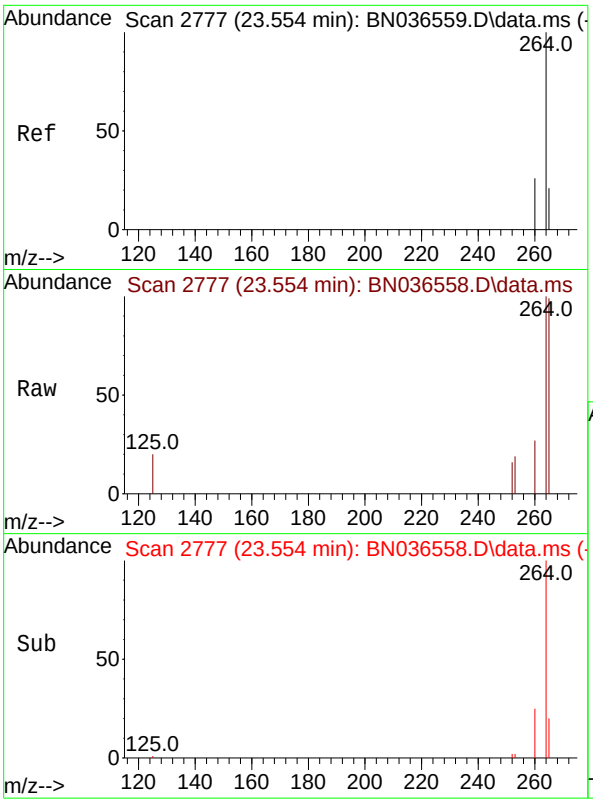


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.222 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#



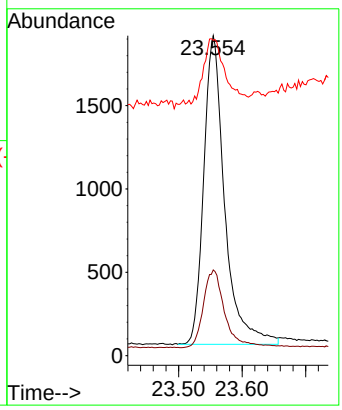


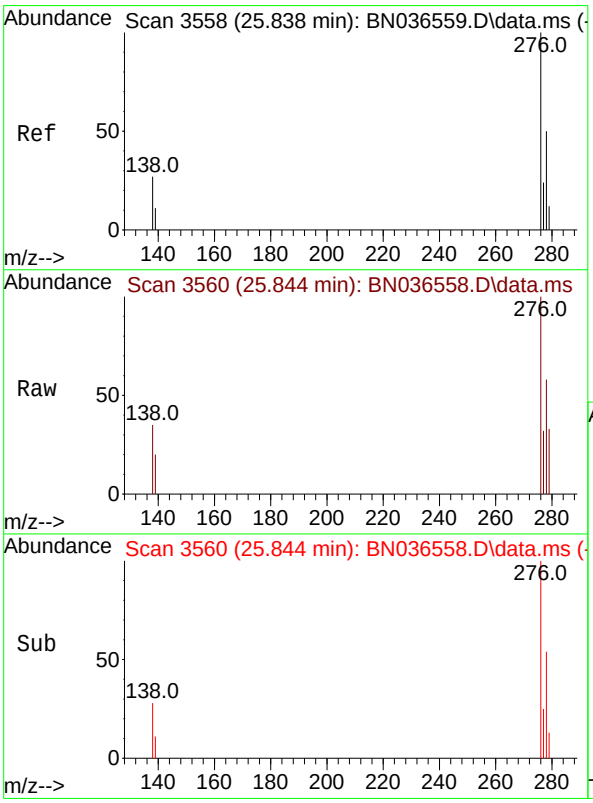
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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

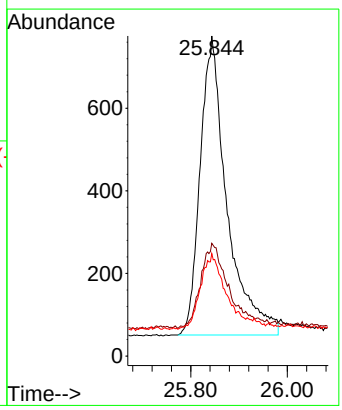


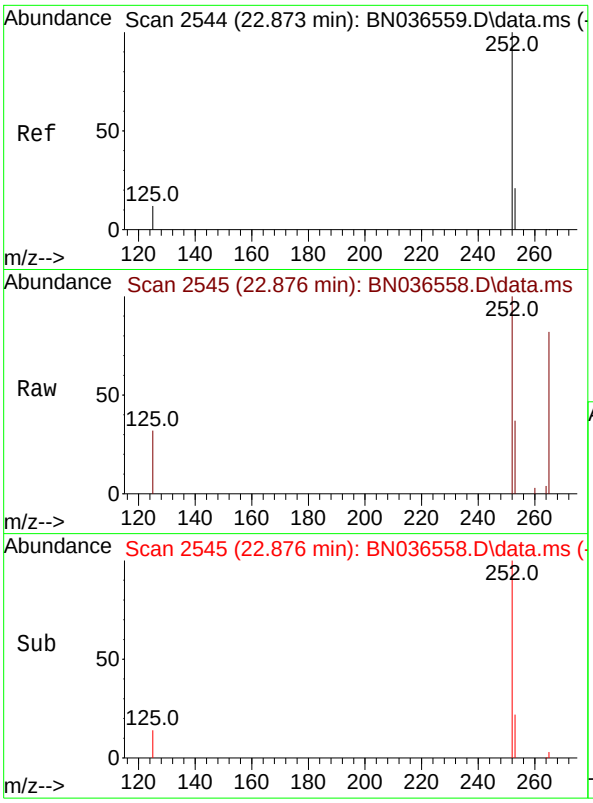


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.182 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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



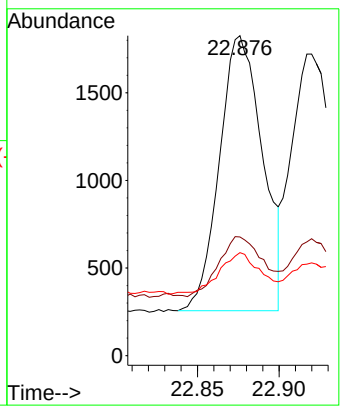


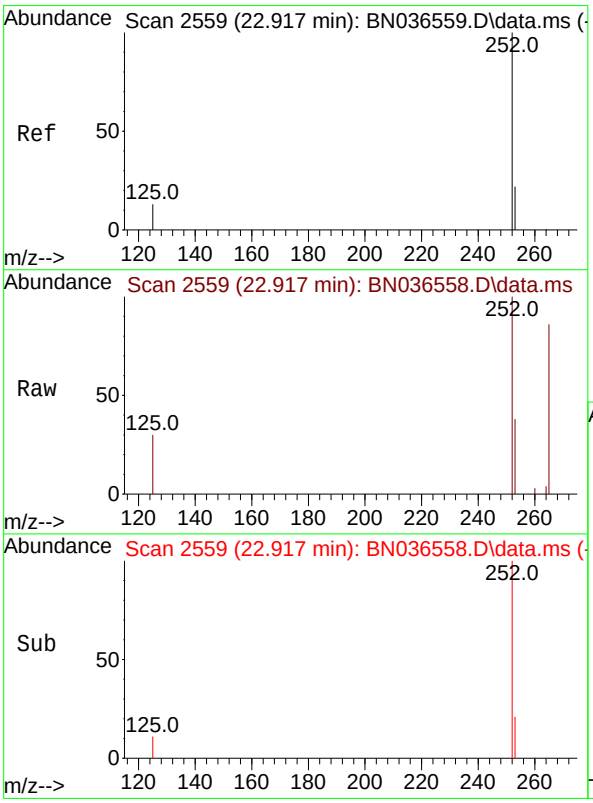
#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#

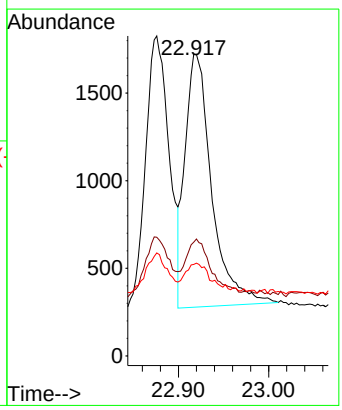


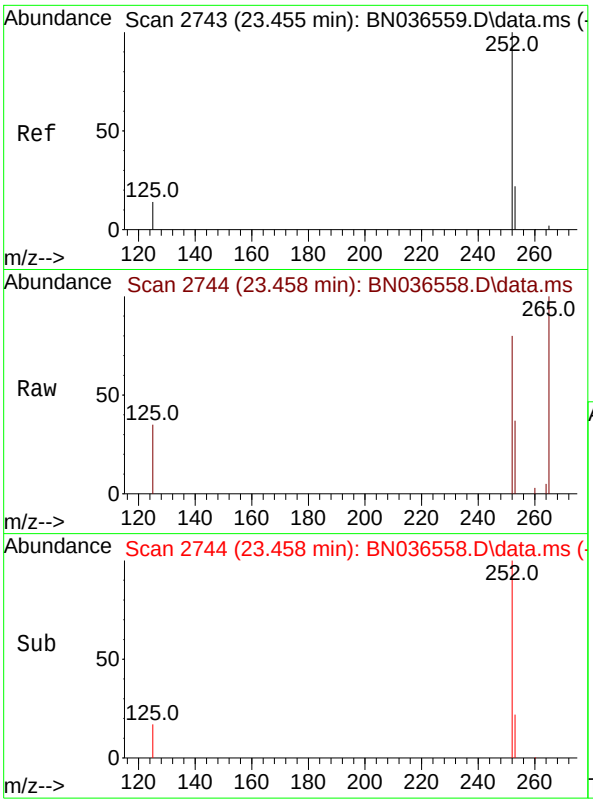


#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#



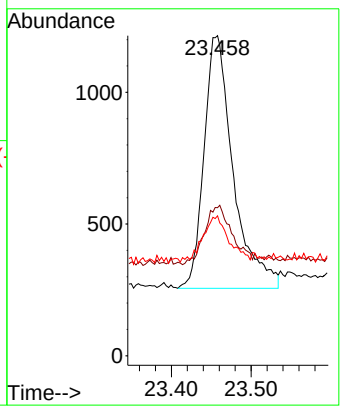


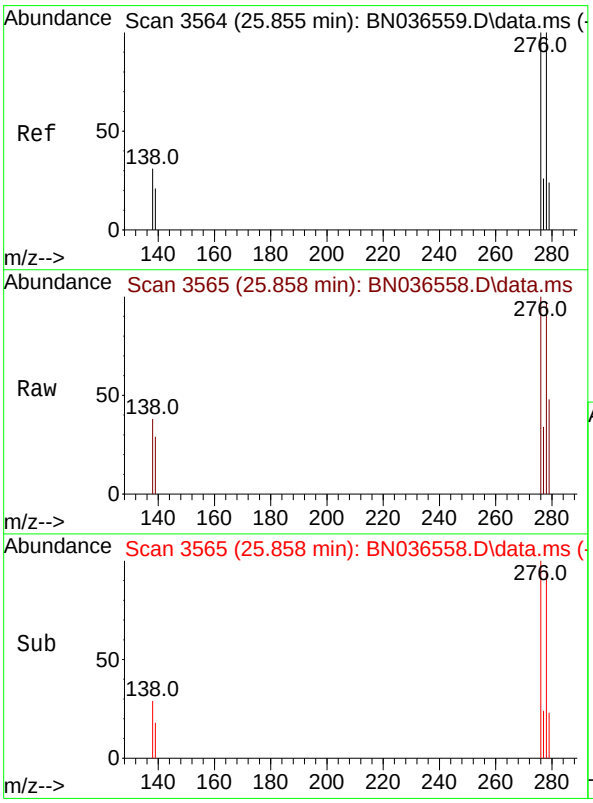
#39
Benzo(a)pyrene
Concen: 0.188 ng
RT: 23.458 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#

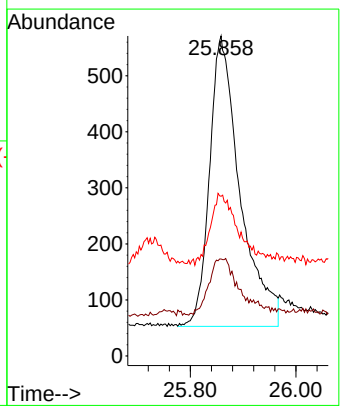


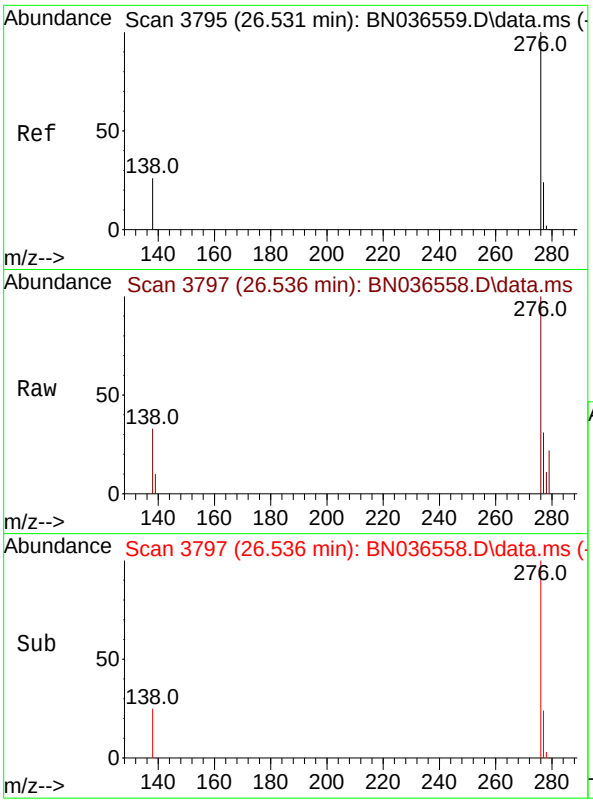


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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#



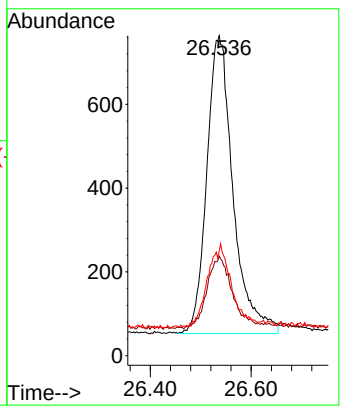


#41
Benzo(g,h,i)perylene
Concen: 0.189 ng
RT: 26.536 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

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\BN031725\
Data File : BN036665.D
Acq On : 17 Mar 2025 18:31
Operator : RC/JU
Sample : PB167159BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Quant Time: Mar 18 00:55:04 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

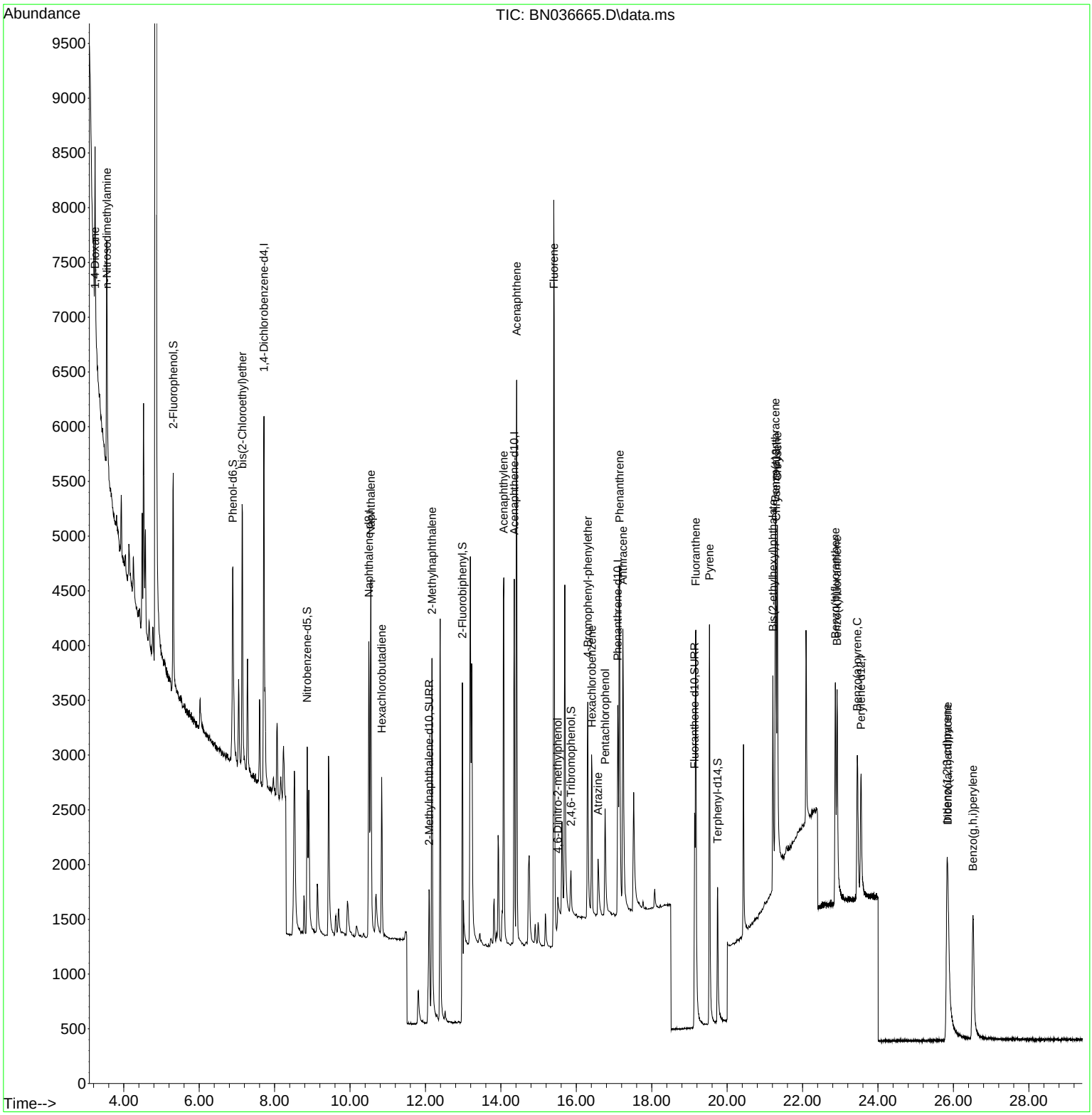
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1650	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	3863	0.400	ng	-0.01
13) Acenaphthene-d10	14.356	164	1951	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	3290	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	1972	0.400	ng	0.00
35) Perylene-d12	23.552	264	1878	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1561	0.406	ng	0.00
5) Phenol-d6	6.894	99	1791	0.377	ng	0.00
8) Nitrobenzene-d5	8.865	82	1547	0.368	ng	-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2789	0.485	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	287	0.324	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	4691	0.413	ng	0.00
27) Fluoranthene-d10	19.137	212	2860	0.339	ng	0.00
31) Terphenyl-d14	19.745	244	1935	0.410	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	682	0.373	ng	# 23
3) n-Nitrosodimethylamine	3.550	42	1682	0.454	ng	93
6) bis(2-Chloroethyl)ether	7.147	93	1884	0.384	ng	97
9) Naphthalene	10.552	128	4632	0.408	ng	99
10) Hexachlorobutadiene	10.840	225	1141	0.427	ng	# 98
12) 2-Methylnaphthalene	12.172	142	2867	0.397	ng	98
16) Acenaphthylene	14.078	152	4194	0.456	ng	99
17) Acenaphthene	14.420	154	2595	0.431	ng	99
18) Fluorene	15.403	166	3260	0.400	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	204	0.389	ng	91
21) 4-Bromophenyl-phenylether	16.305	248	921	0.447	ng	89
22) Hexachlorobenzene	16.416	284	1125	0.452	ng	93
23) Atrazine	16.578	200	729	0.441	ng	# 89
24) Pentachlorophenol	16.764	266	690	0.608	ng	99
25) Phenanthrene	17.149	178	4250	0.431	ng	100
26) Anthracene	17.236	178	3990	0.448	ng	99
28) Fluoranthene	19.169	202	4249	0.383	ng	98
30) Pyrene	19.531	202	4301	0.446	ng	99
32) Benzo(a)anthracene	21.277	228	2770	0.404	ng	98
33) Chrysene	21.331	228	3606	0.481	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	1852	0.379	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.829	276	3428	0.506	ng	# 91
37) Benzo(b)fluoranthene	22.870	252	2702	0.395	ng	96
38) Benzo(k)fluoranthene	22.914	252	3322	0.463	ng	96
39) Benzo(a)pyrene	23.452	252	2835	0.493	ng	96
40) Dibenzo(a,h)anthracene	25.850	278	2578	0.489	ng	93
41) Benzo(g,h,i)perylene	26.519	276	2857	0.473	ng	97

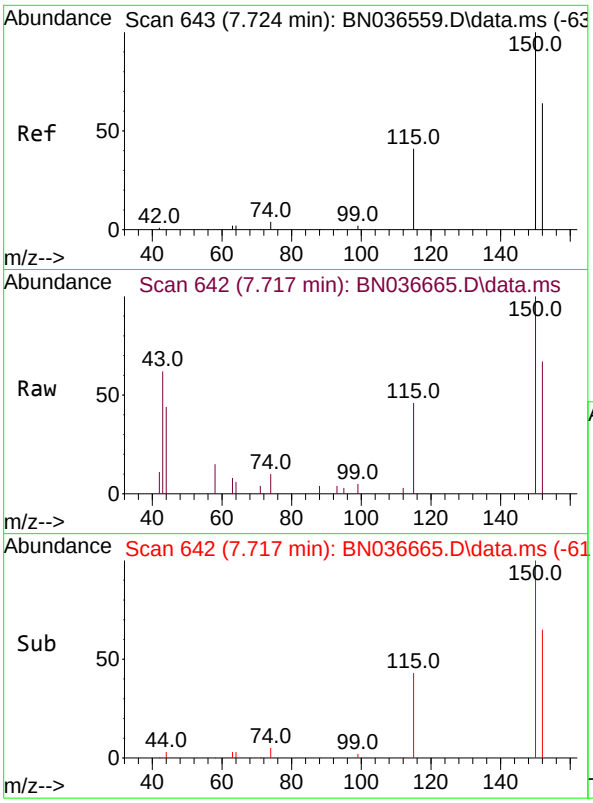
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036665.D
Acq On : 17 Mar 2025 18:31
Operator : RC/JU
Sample : PB167159BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Quant Time: Mar 18 00:55:04 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



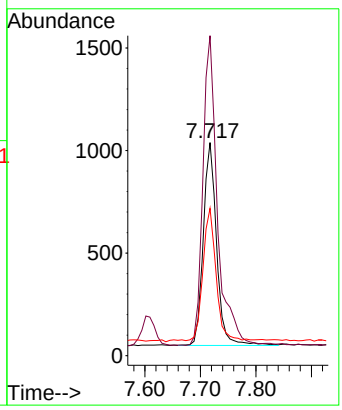


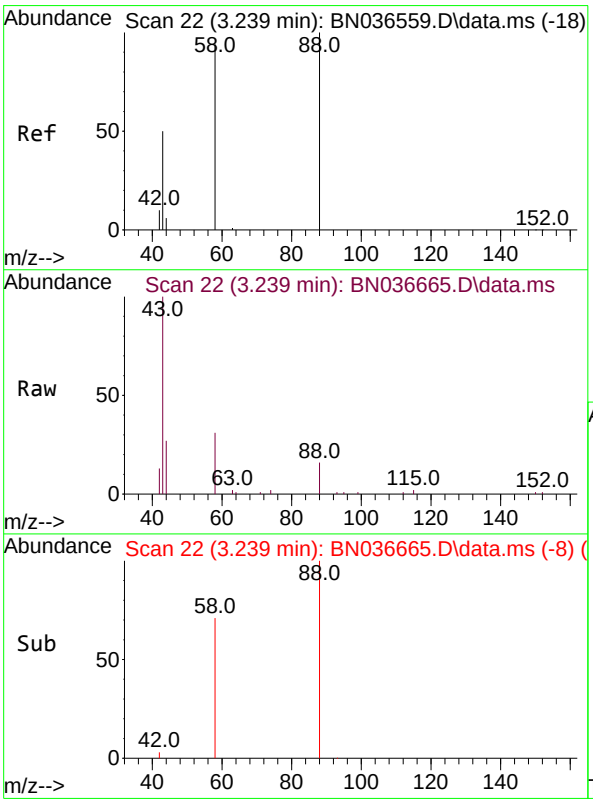
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:152 Resp: 1650

Ion	Ratio	Lower	Upper
152	100		
150	150.1	123.7	185.5
115	69.1	54.3	81.5

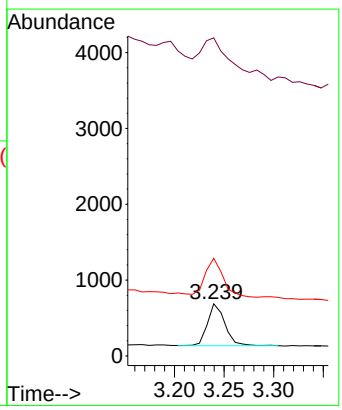


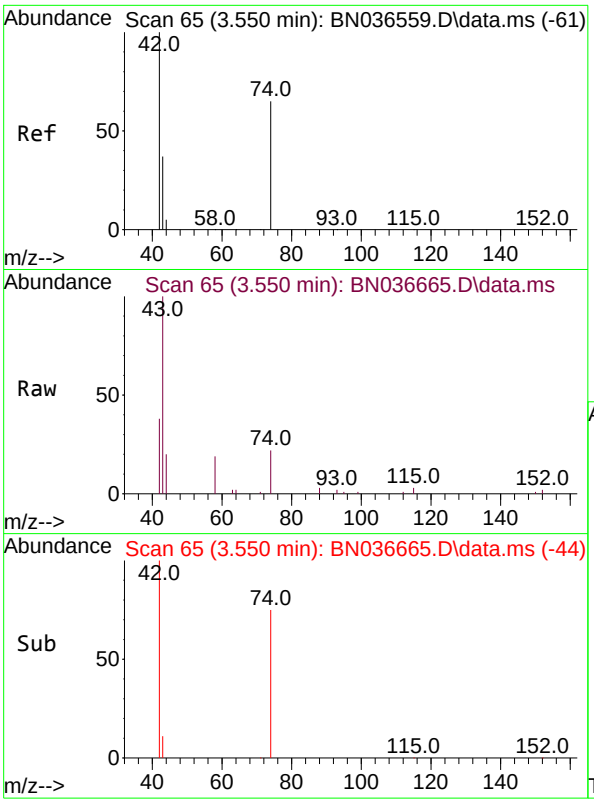


#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 88 Resp: 682

Ion	Ratio	Lower	Upper
88	100		
43	177.0	37.8	56.8#
58	94.6	67.4	101.2



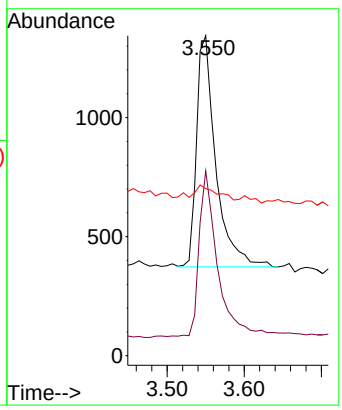


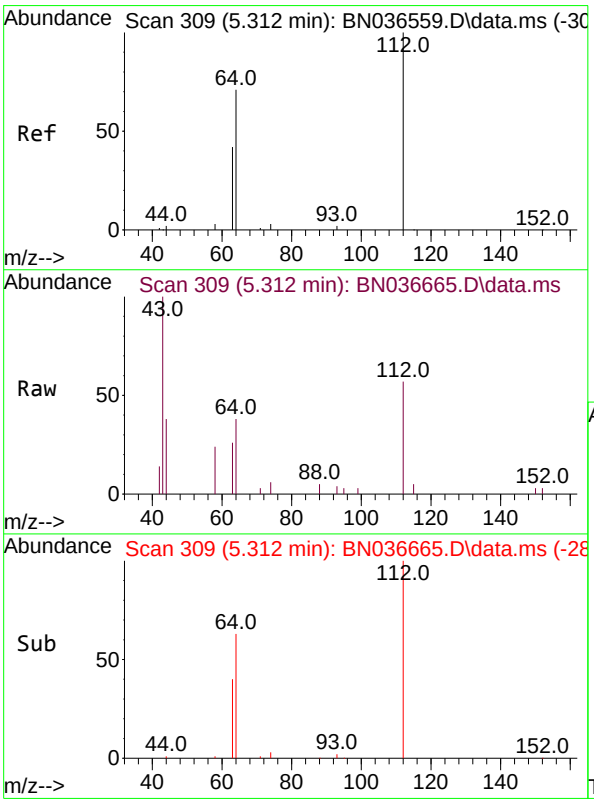
#3
n-Nitrosodimethylamine
Concen: 0.454 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion: 42 Resp: 1682

Ion	Ratio	Lower	Upper
42	100		
74	69.5	60.6	90.8
44	7.4	6.3	9.5

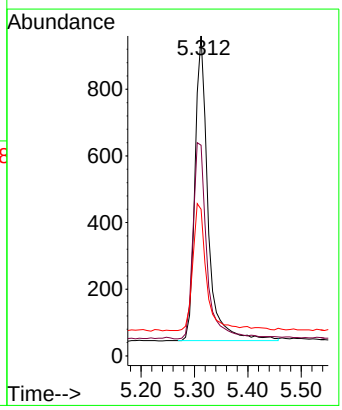


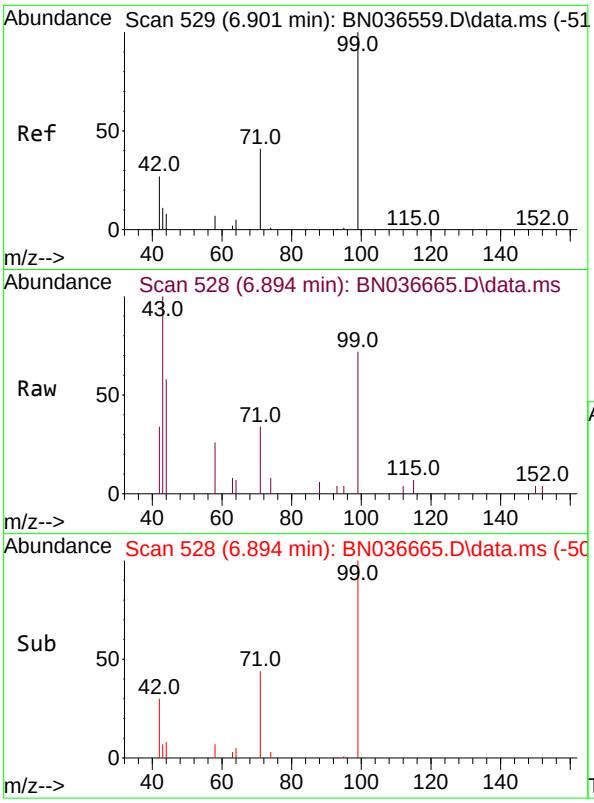


#4
2-Fluorophenol
Concen: 0.406 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:112 Resp: 1561

Ion	Ratio	Lower	Upper
112	100		
64	68.9	53.1	79.7
63	42.5	31.8	47.8



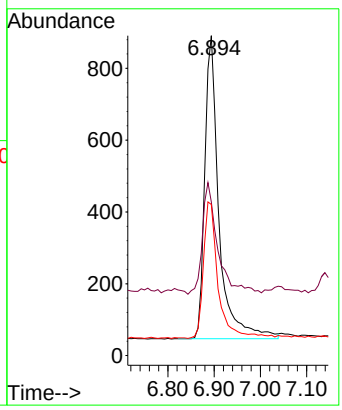


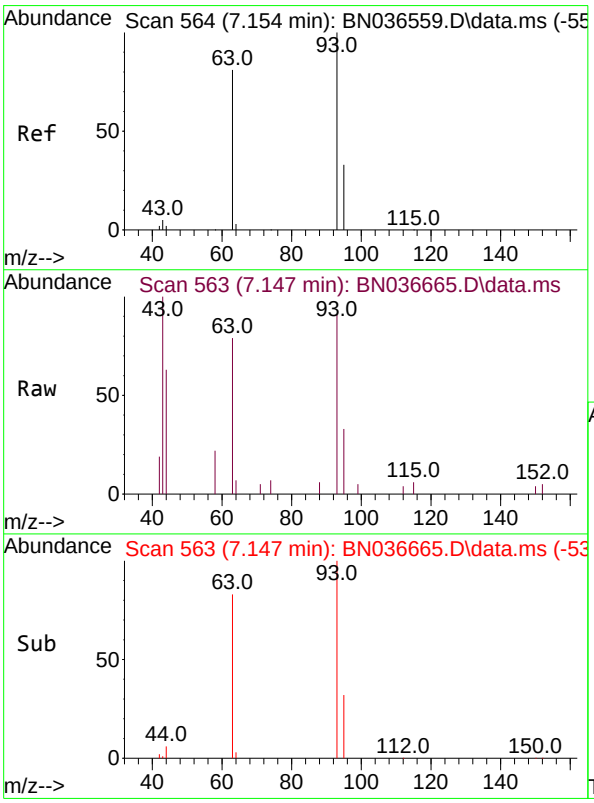
#5
Phenol-d6
Concen: 0.377 ng
RT: 6.894 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion: 99 Resp: 1791

Ion	Ratio	Lower	Upper
99	100		
42	40.4	26.5	39.7#
71	46.6	34.1	51.1

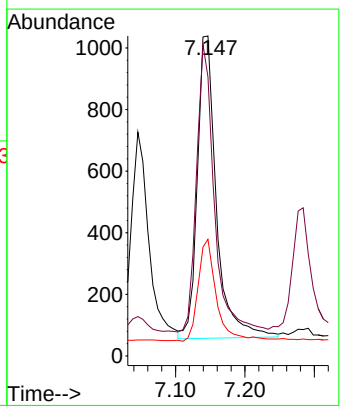


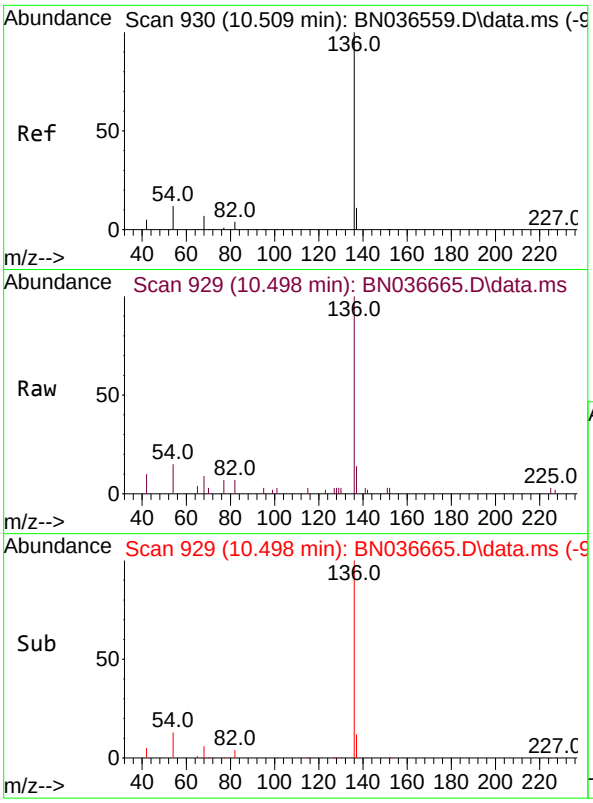


#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 93 Resp: 1884

Ion	Ratio	Lower	Upper
93	100		
63	88.0	67.7	101.5
95	31.6	25.6	38.4



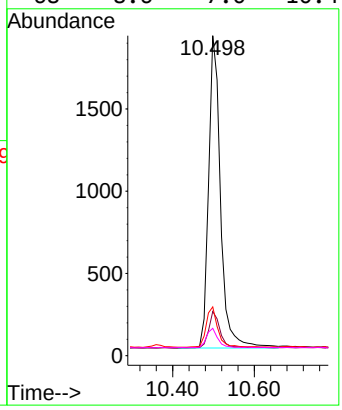


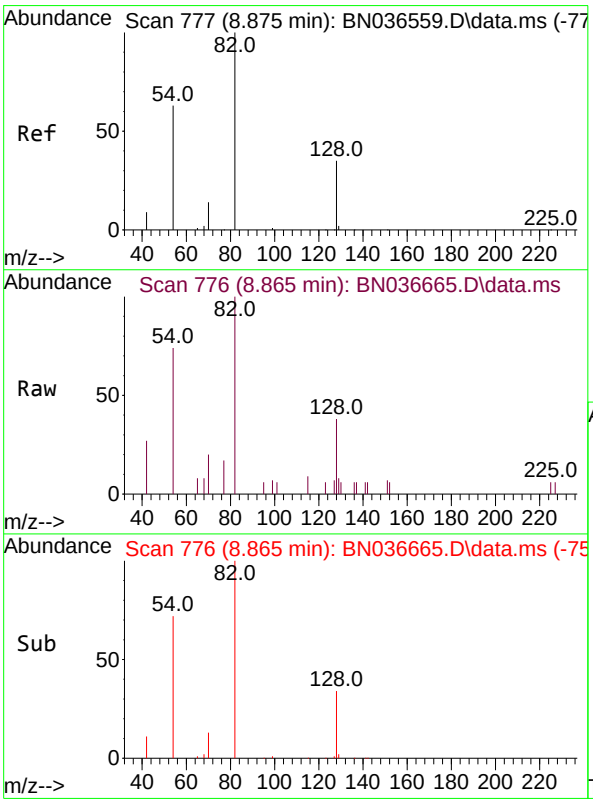
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:136 Resp: 3863

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.3	15.5
54	15.3	11.5	17.3
68	8.6	7.0	10.4

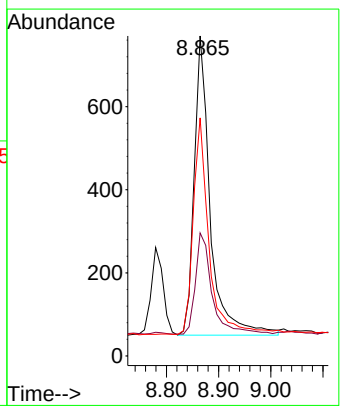


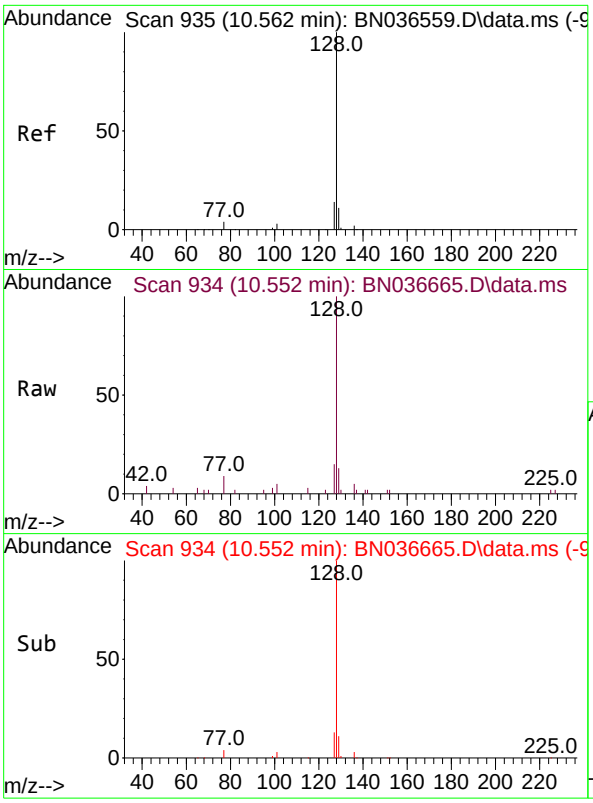


#8
Nitrobenzene-d5
Concen: 0.368 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion: 82 Resp: 1547

Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.6	45.8
54	74.4	52.2	78.4



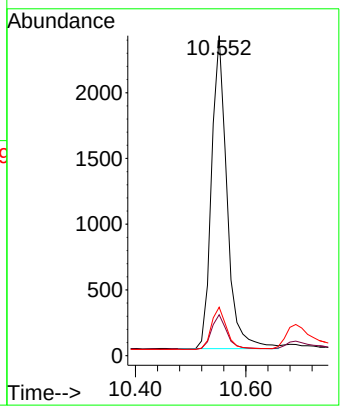


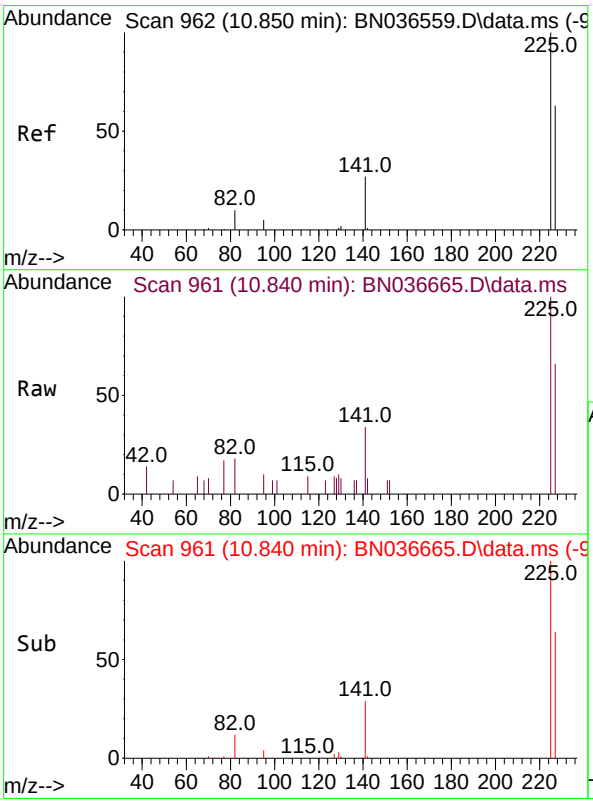
#9
Naphthalene
Concen: 0.408 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:128 Resp: 4632

Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.2	11.8	17.8

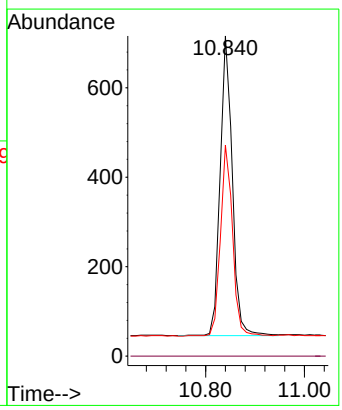


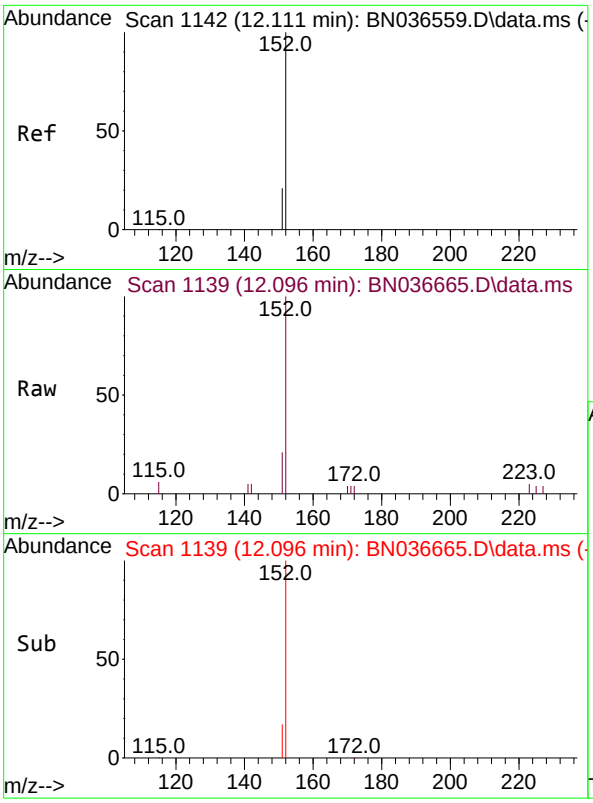


#10
Hexachlorobutadiene
Concen: 0.427 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:225 Resp: 1141

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.8	77.8



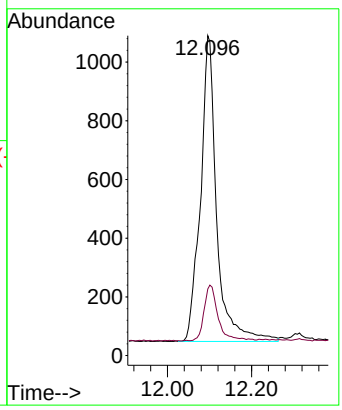


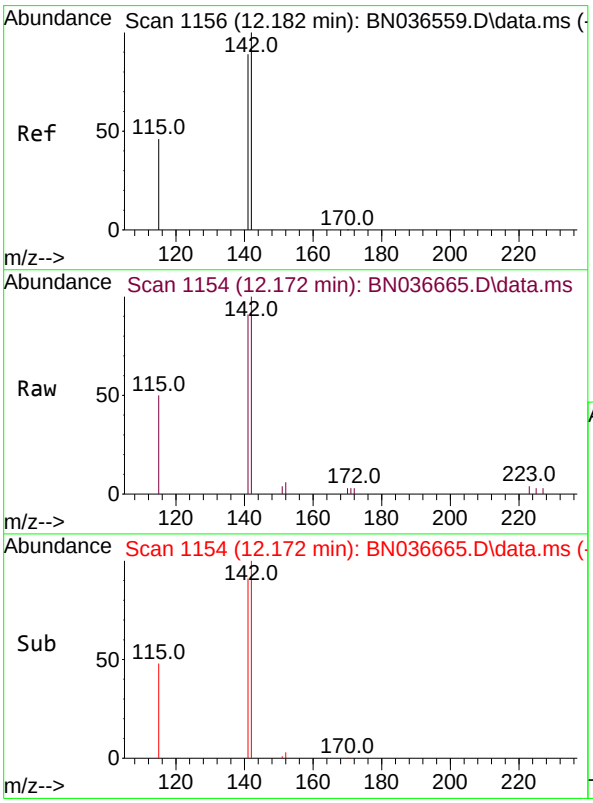
#11
2-Methylnaphthalene-d10
Concen: 0.485 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:152 Resp: 2789

Ion	Ratio	Lower	Upper
152	100		
151	15.3	17.0	25.6#

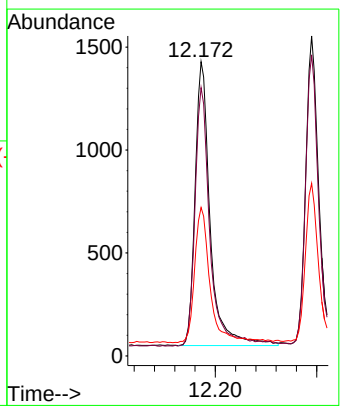


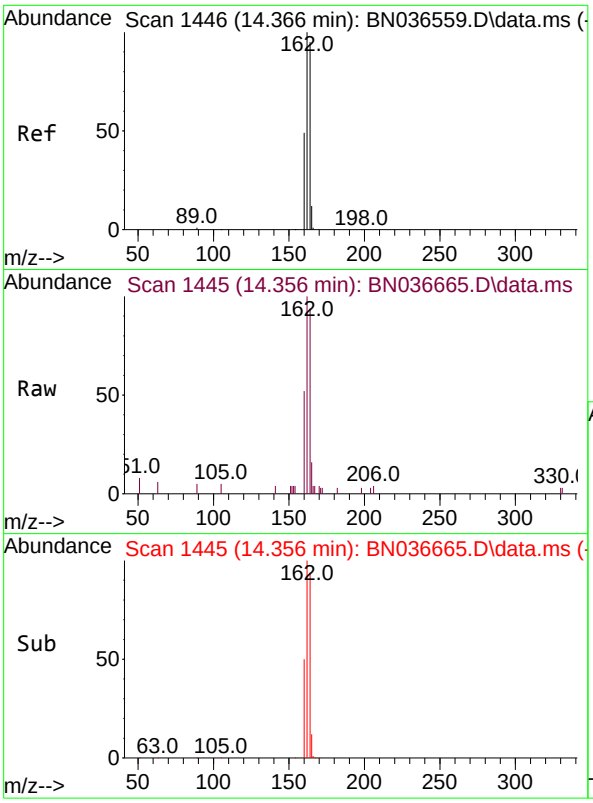


#12
2-Methylnaphthalene
Concen: 0.397 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:142 Resp: 2867

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.7	107.5
115	50.5	38.3	57.5



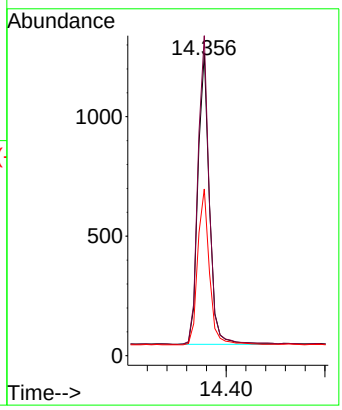


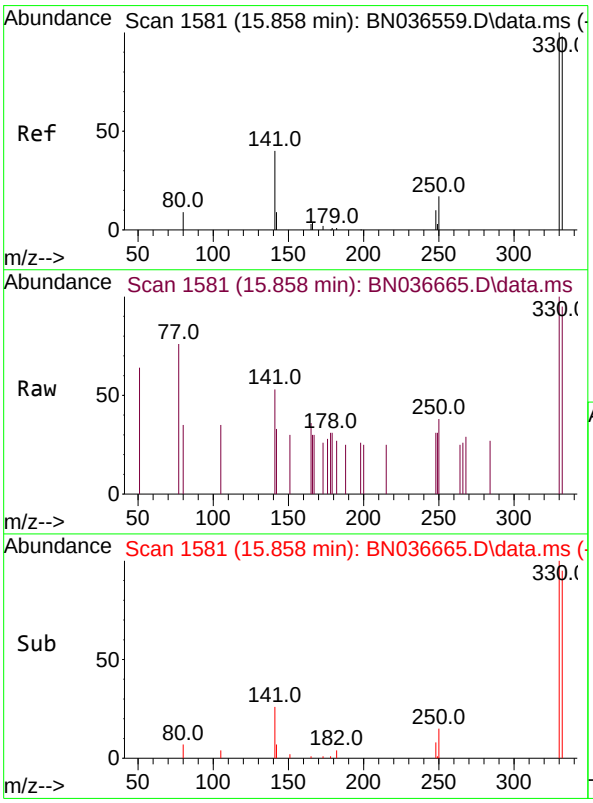
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:164 Resp: 1951

Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.2	126.2
160	55.2	42.2	63.2

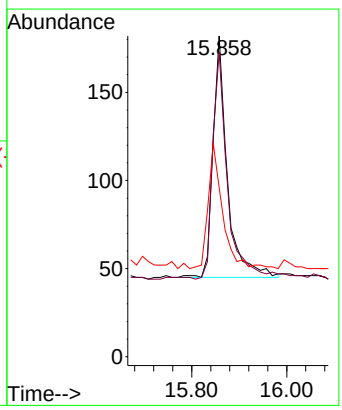


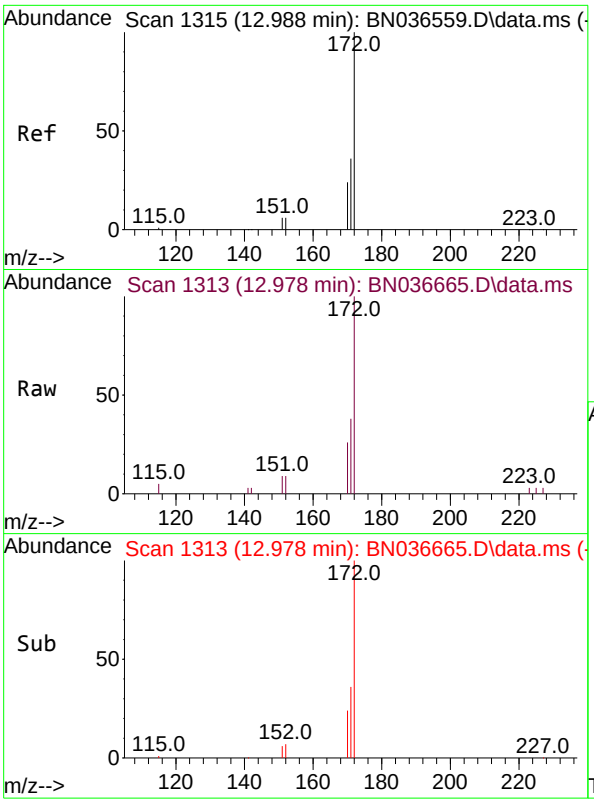


#14
2,4,6-Tribromophenol
Concen: 0.324 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:330 Resp: 287

Ion	Ratio	Lower	Upper
330	100		
332	97.9	75.2	112.8
141	52.3	43.4	65.2



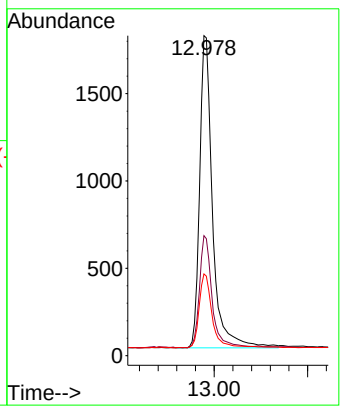


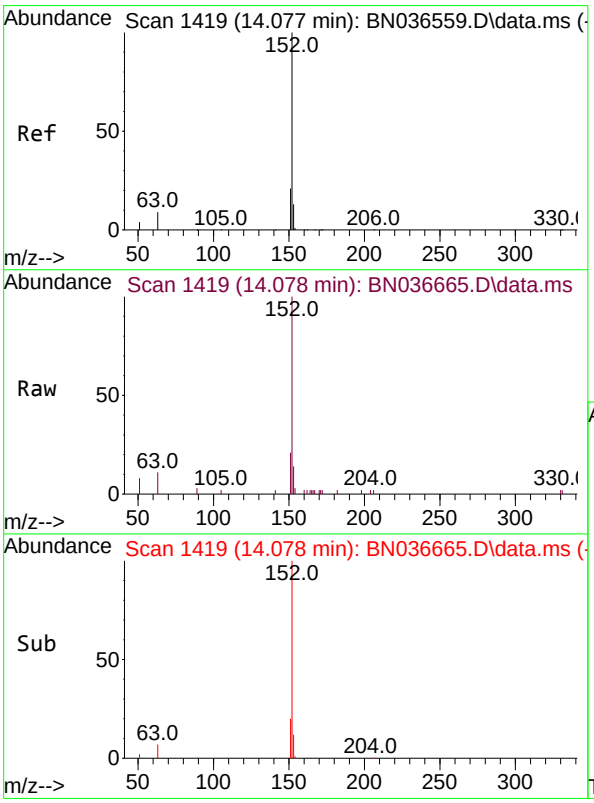
#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:172 Resp: 4691

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.5	44.3
170	25.5	20.2	30.4

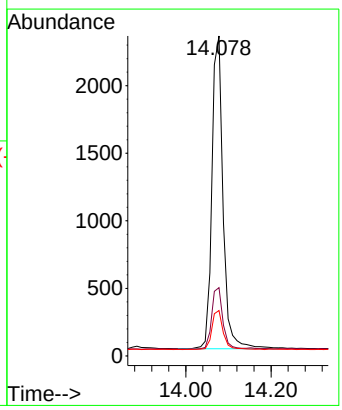


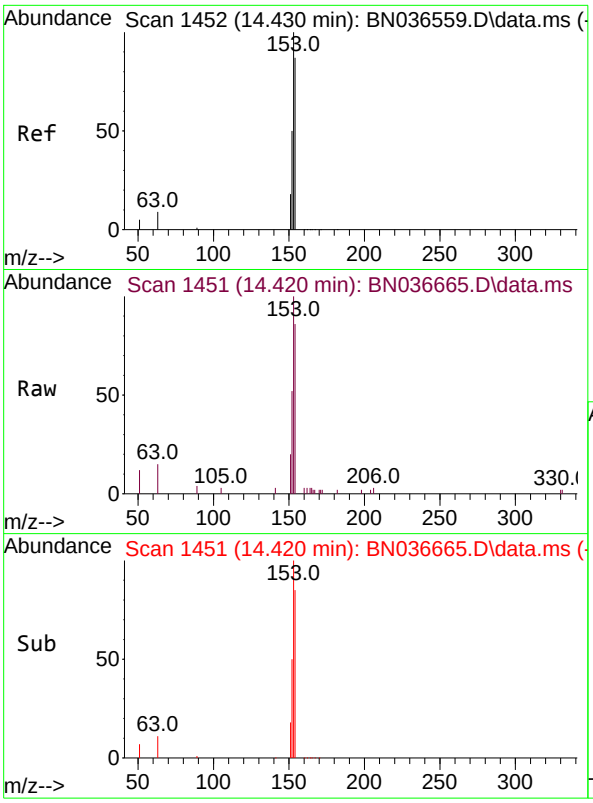


#16
Acenaphthylene
Concen: 0.456 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:152 Resp: 4194

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.9	10.6	15.8



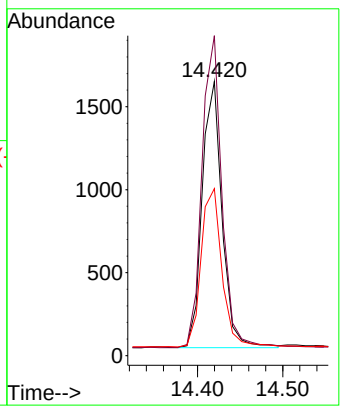


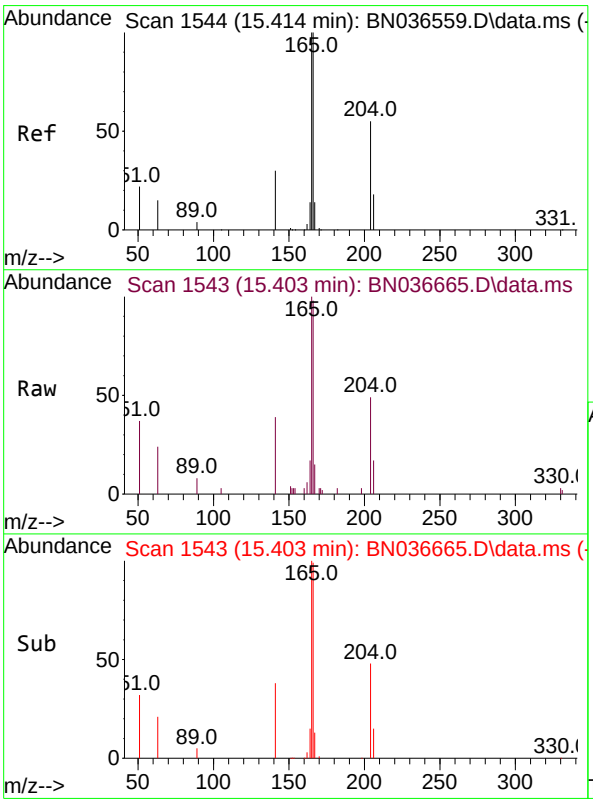
#17
Acenaphthene
Concen: 0.431 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:154 Resp: 2595

Ion	Ratio	Lower	Upper
154	100		
153	118.7	94.1	141.1
152	63.4	49.8	74.6

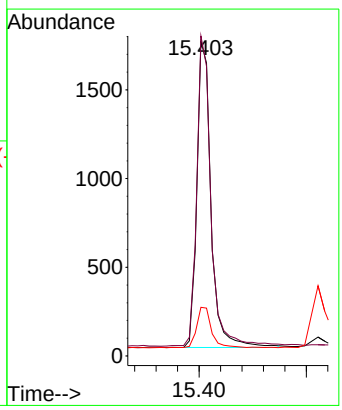


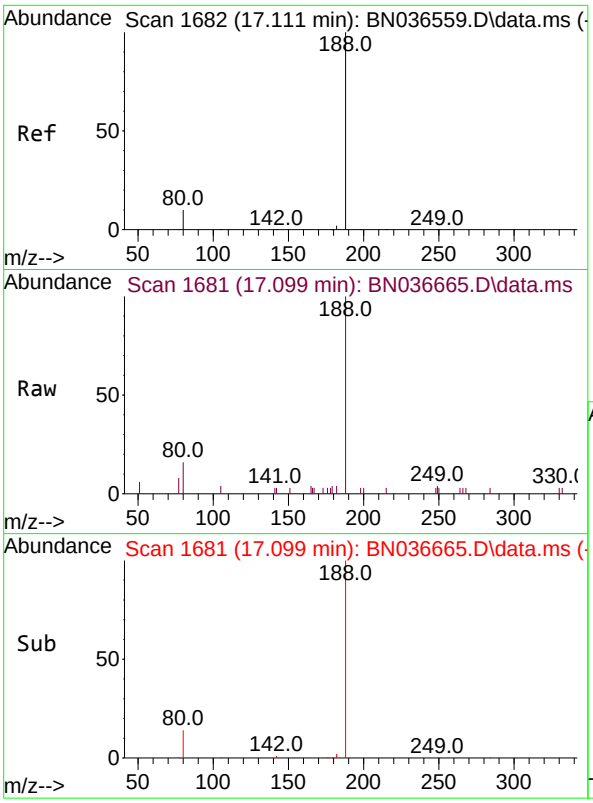


#18
Fluorene
Concen: 0.400 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.010 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:166 Resp: 3260

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.8	119.8
167	14.0	10.6	15.8



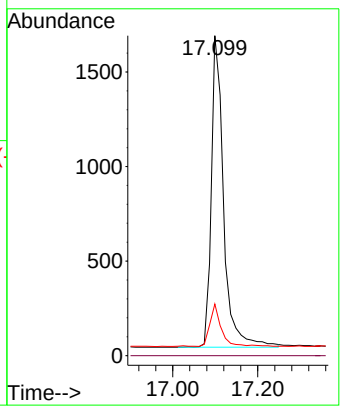


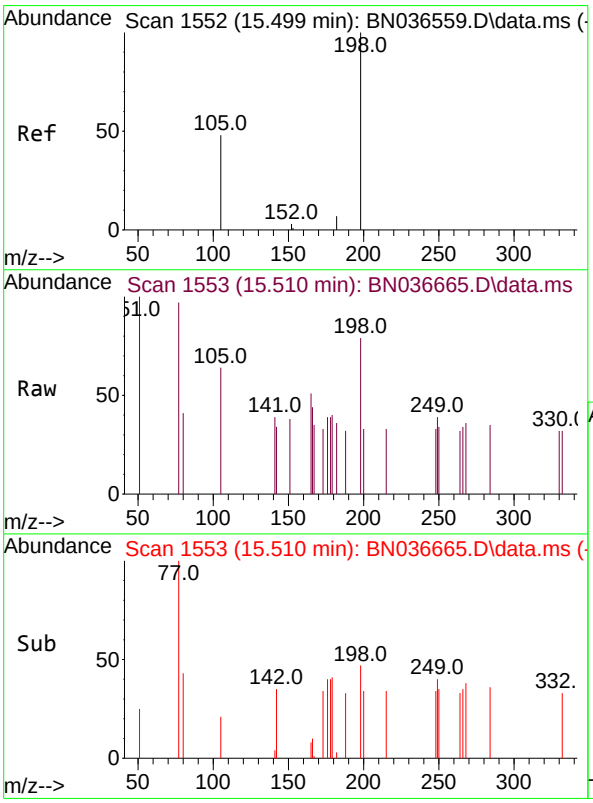
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:188 Resp: 3290

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.1	8.8	13.2#

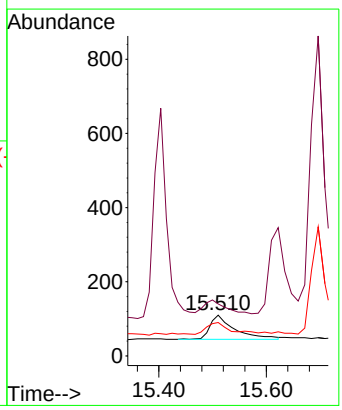


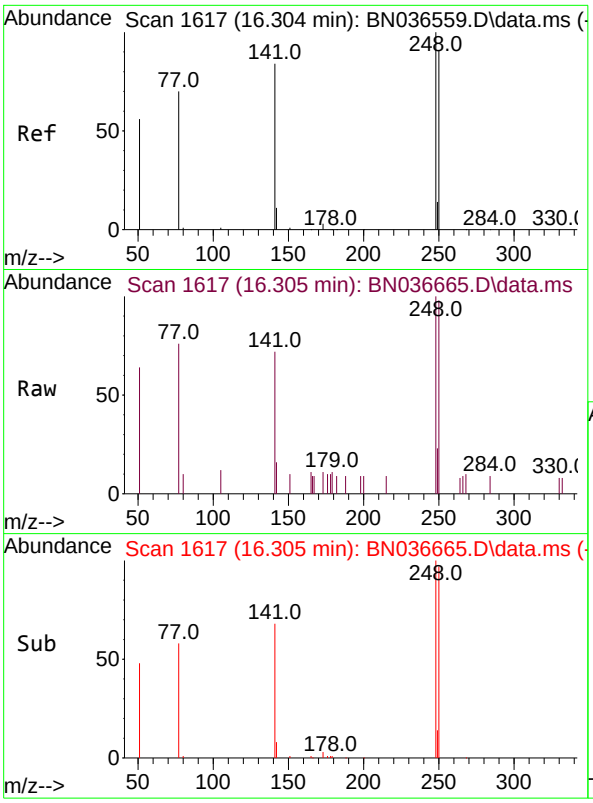


#20
4,6-Dinitro-2-methylphenol
Concen: 0.389 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:198 Resp: 204

Ion	Ratio	Lower	Upper
198	100		
51	127.3	107.9	161.9
105	81.8	56.2	84.2



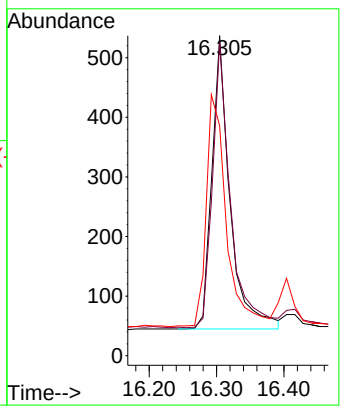


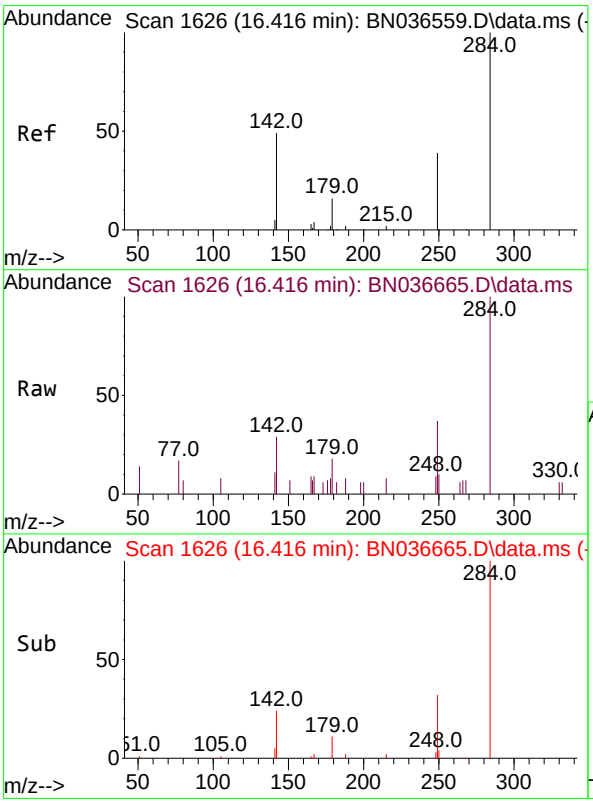
#21
4-Bromophenyl-phenylether
Concen: 0.447 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:248 Resp: 921

Ion	Ratio	Lower	Upper
248	100		
250	97.8	73.0	109.6
141	71.9	68.6	103.0

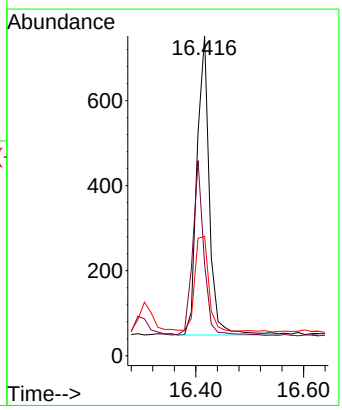


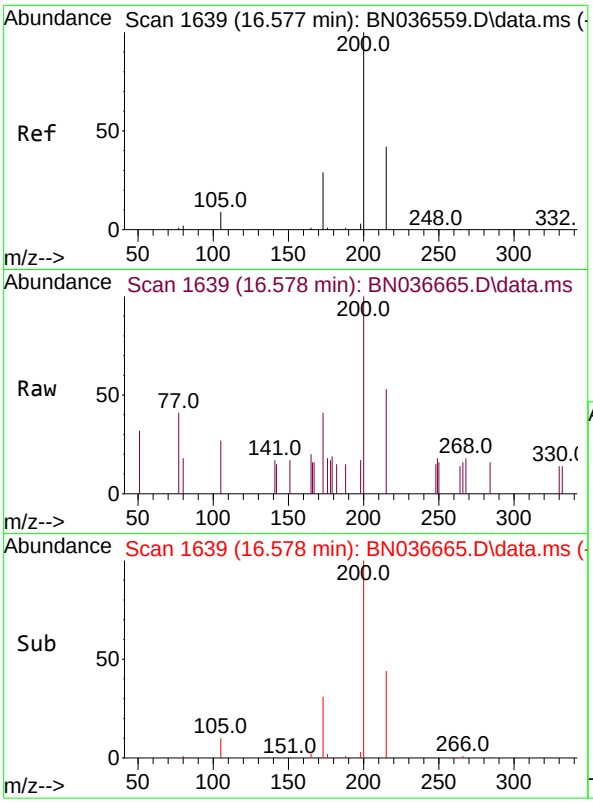


#22
Hexachlorobenzene
Concen: 0.452 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:284 Resp: 1125

Ion	Ratio	Lower	Upper
284	100		
142	53.7	37.0	55.4
249	35.8	28.1	42.1



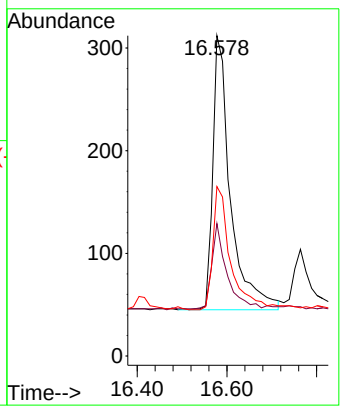


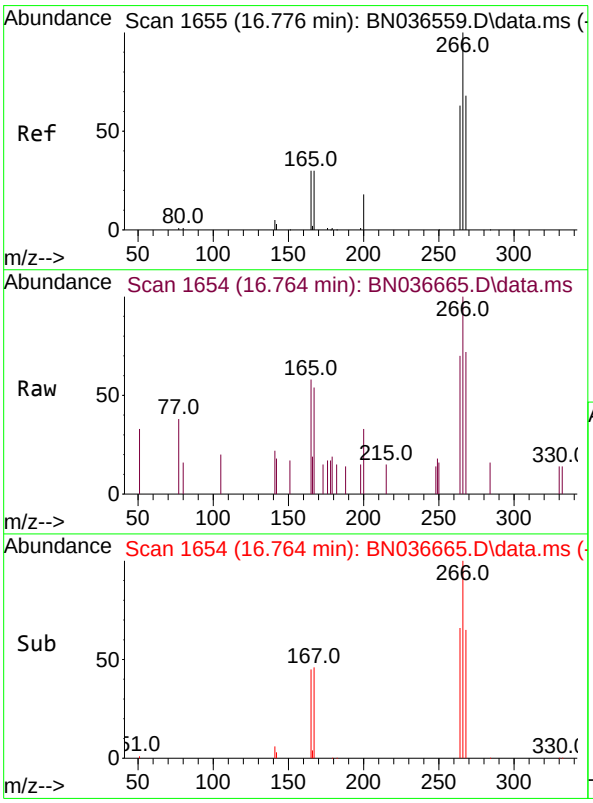
#23
Atrazine
Concen: 0.441 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:200 Resp: 729

Ion	Ratio	Lower	Upper
200	100		
173	41.3	27.3	40.9#
215	52.9	36.8	55.2

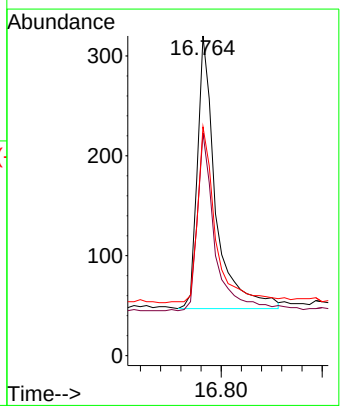


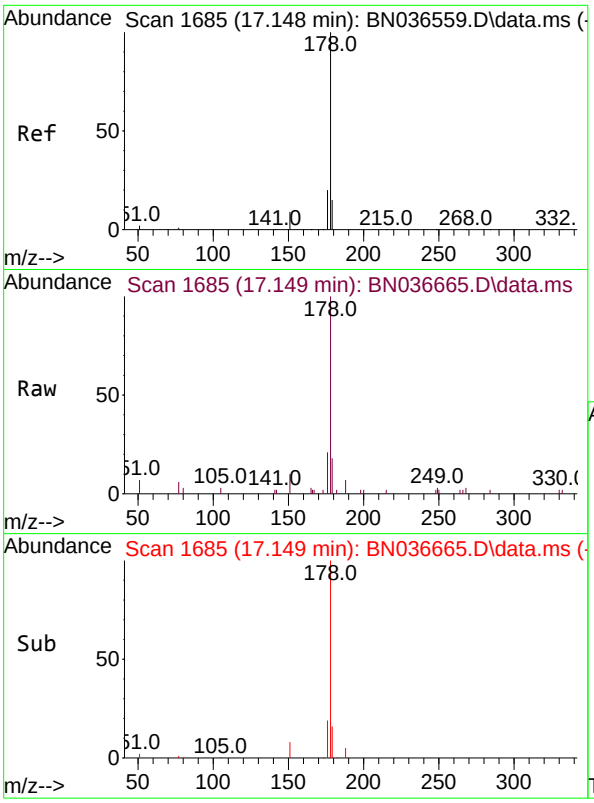


#24
Pentachlorophenol
Concen: 0.608 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:266 Resp: 690

Ion	Ratio	Lower	Upper
266	100		
264	61.6	49.6	74.4
268	62.8	50.9	76.3



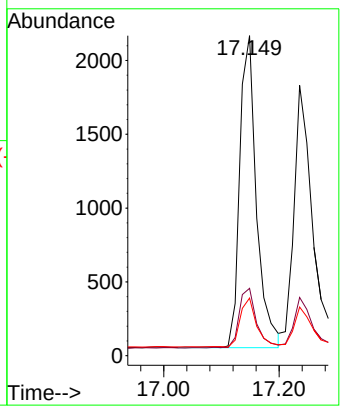


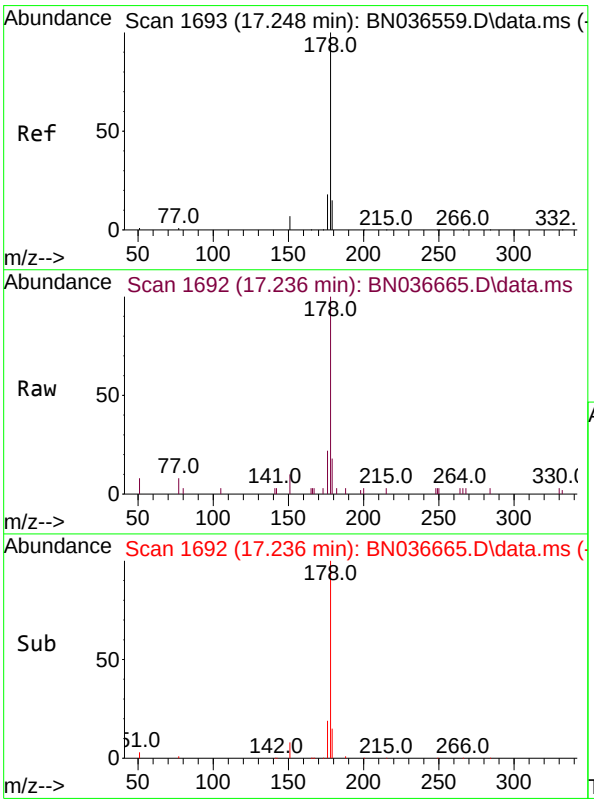
#25
Phenanthrene
Concen: 0.431 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:178 Resp: 4250

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

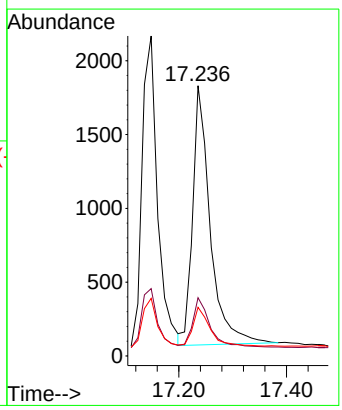


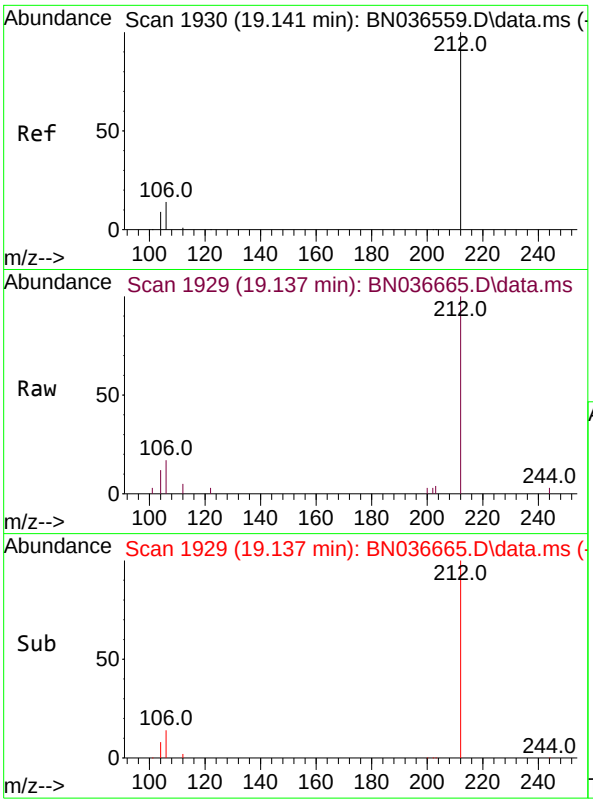


#26
Anthracene
Concen: 0.448 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:178 Resp: 3990

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	14.9	12.6	18.8



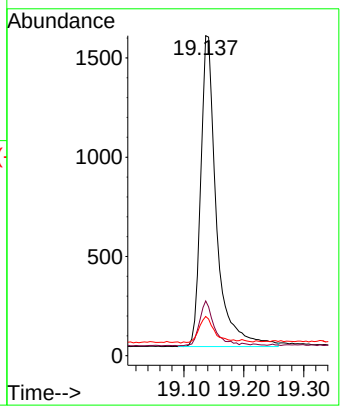


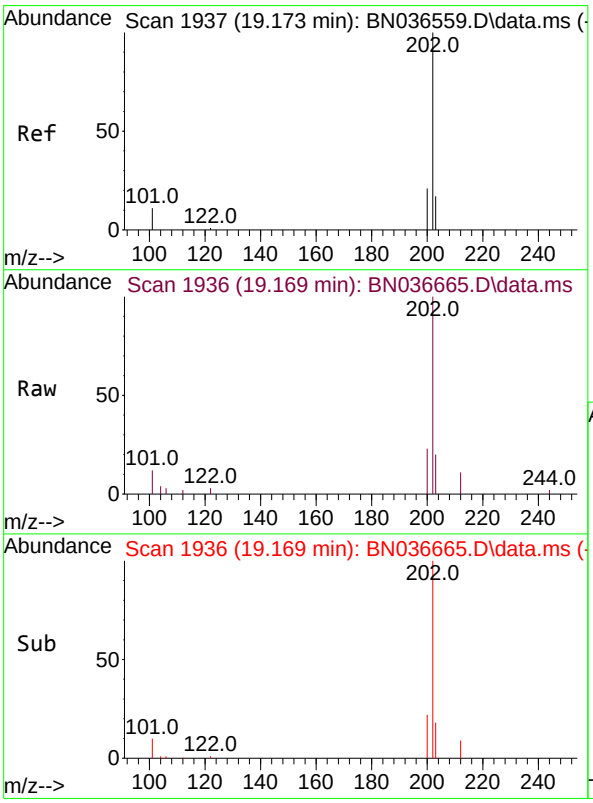
#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 19.137 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:212 Resp: 2860

Ion	Ratio	Lower	Upper
212	100		
106	13.3	11.8	17.6
104	8.7	7.3	10.9

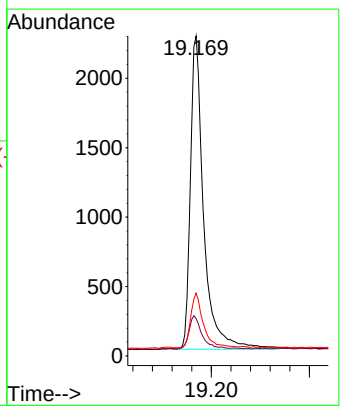


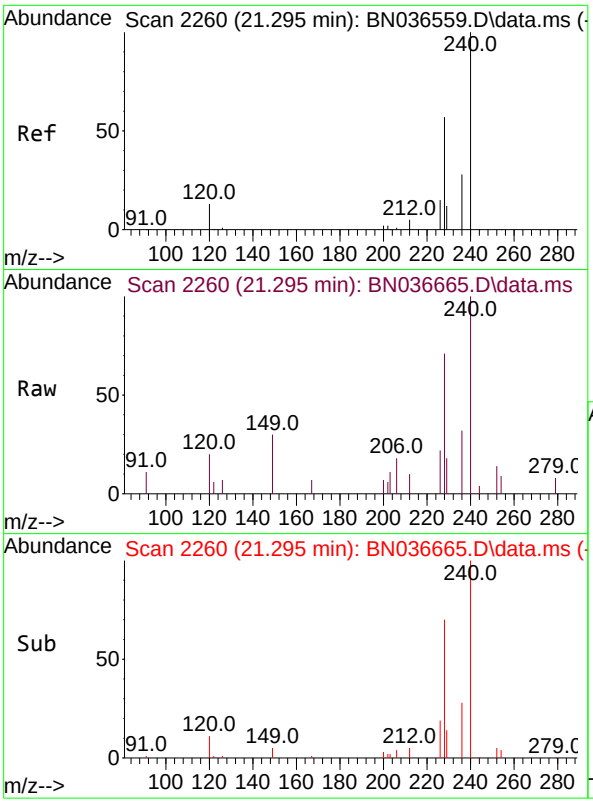


#28
Fluoranthene
Concen: 0.383 ng
RT: 19.169 min Scan# 1936
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:202 Resp: 4249

Ion	Ratio	Lower	Upper
202	100		
101	10.3	9.4	14.0
203	16.8	13.5	20.3



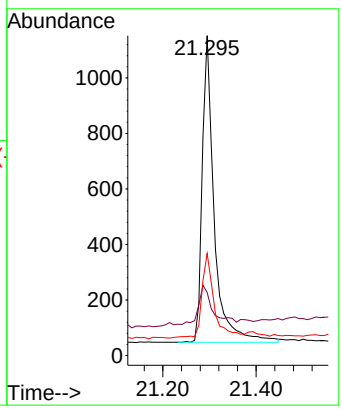


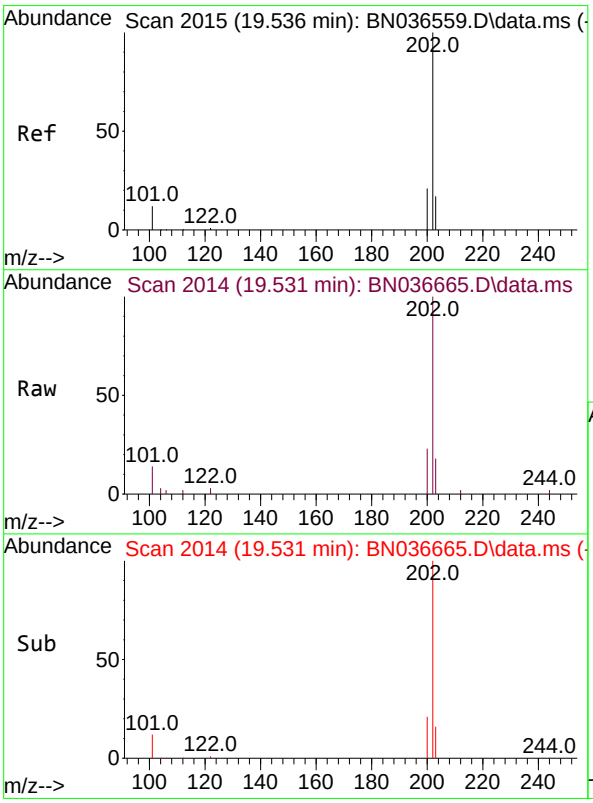
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:240 Resp: 1972

Ion	Ratio	Lower	Upper
240	100		
120	19.7	14.6	22.0
236	31.9	24.1	36.1

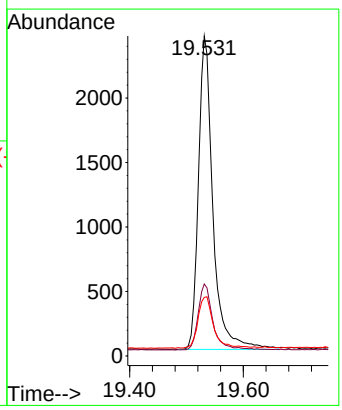


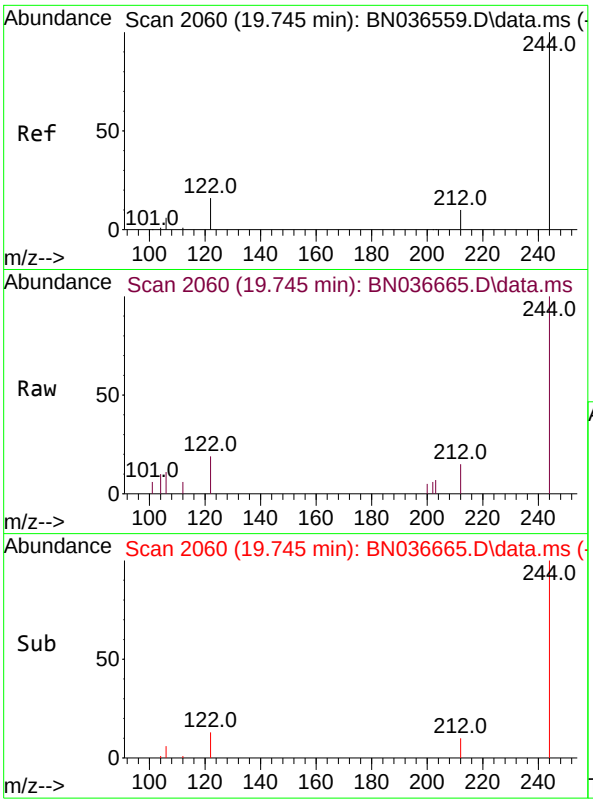


#30
Pyrene
Concen: 0.446 ng
RT: 19.531 min Scan# 2014
Delta R.T. -0.004 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:202 Resp: 4301

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.1	25.7
203	17.3	14.1	21.1



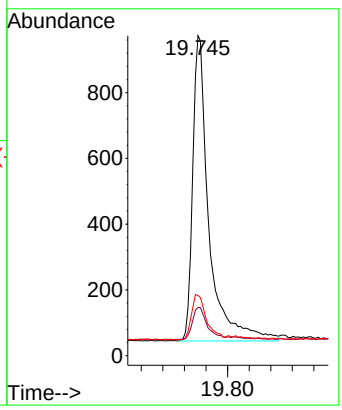


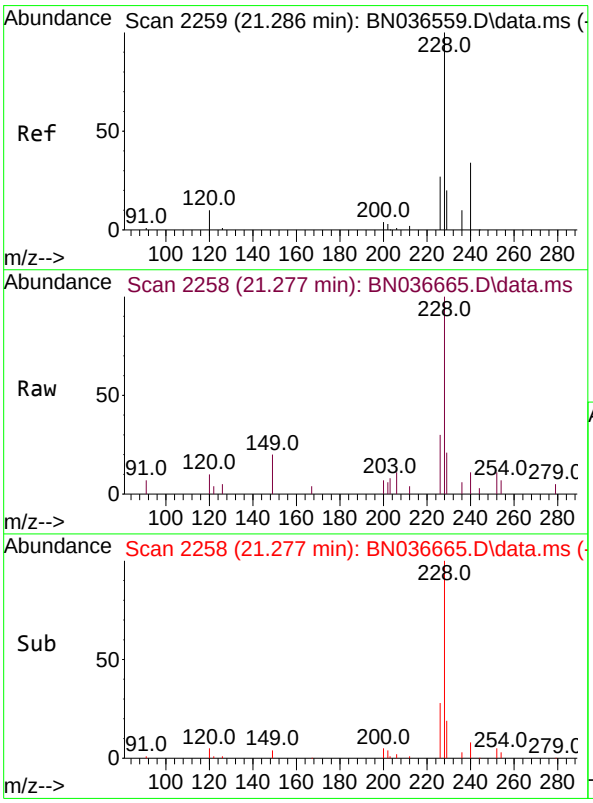
#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.745 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:244 Resp: 1935

Ion	Ratio	Lower	Upper
244	100		
212	15.1	9.6	14.4#
122	18.8	13.9	20.9

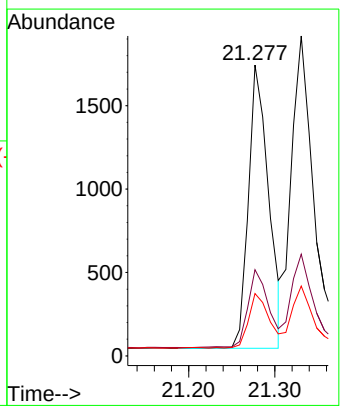


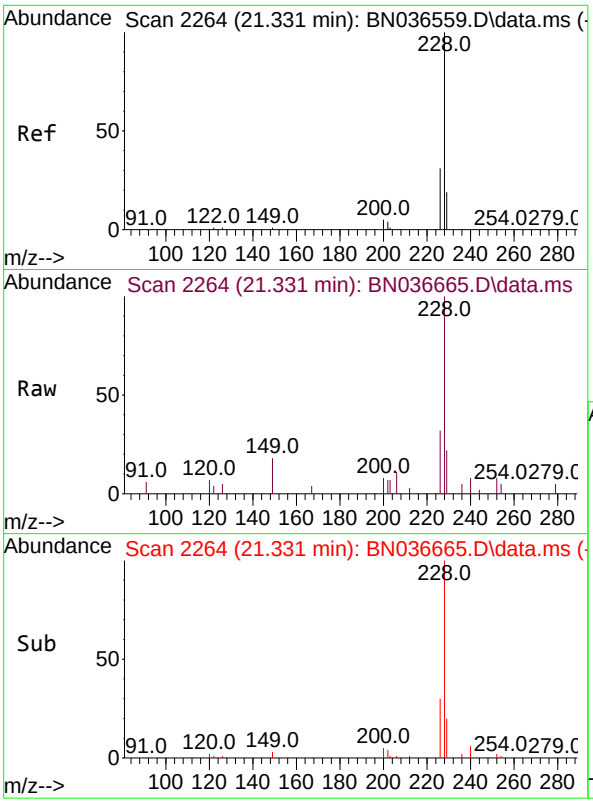


#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:228 Resp: 2770

Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.5	33.7
229	21.5	16.6	25.0



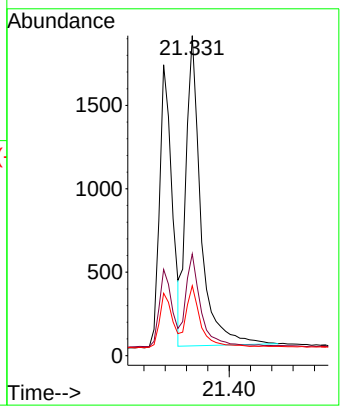


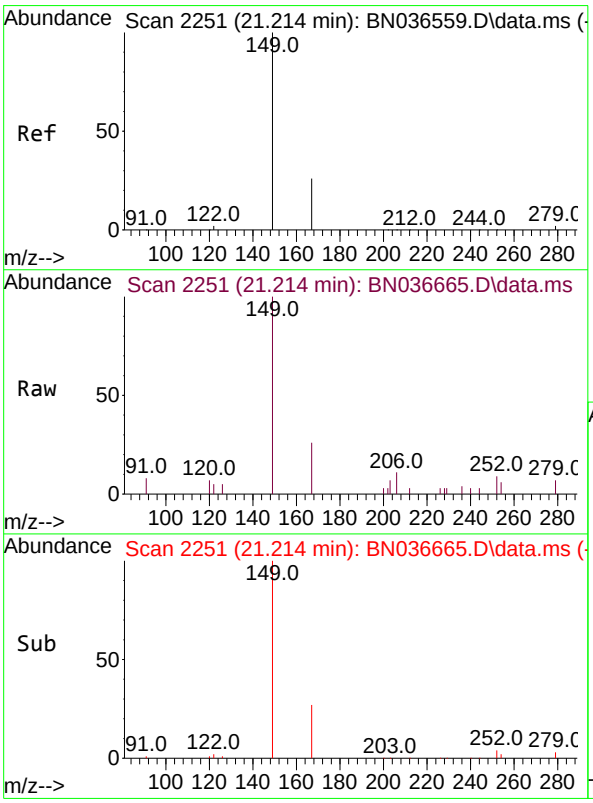
#33
Chrysene
Concen: 0.481 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:228 Resp: 3606

Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.3	37.9
229	21.8	15.8	23.8

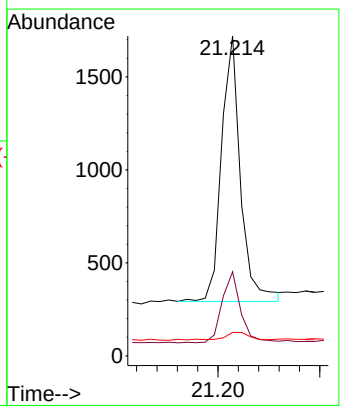


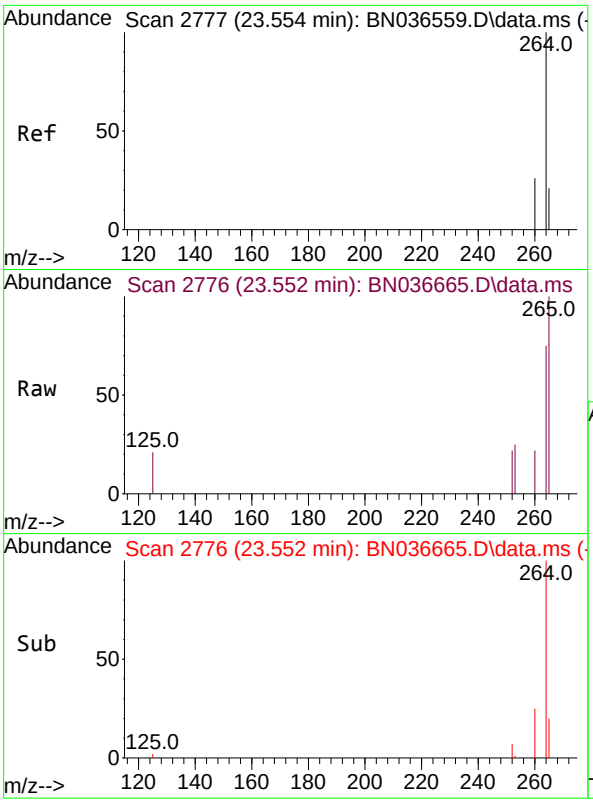


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:149 Resp: 1852

Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.7	31.1
279	3.4	3.6	5.4#



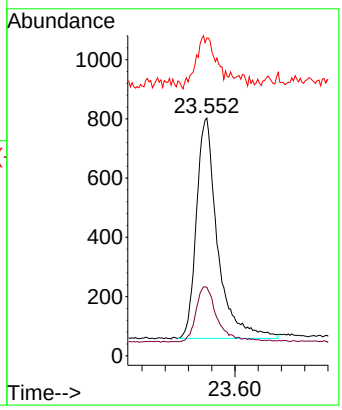


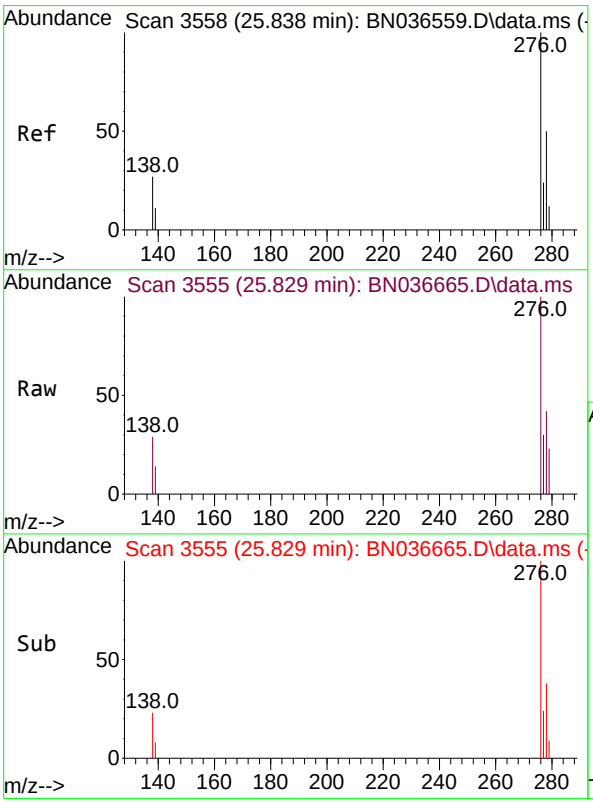
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.552 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:264 Resp: 1878

Ion	Ratio	Lower	Upper
264	100		
260	28.8	22.6	33.8
265	133.6	88.1	132.1#

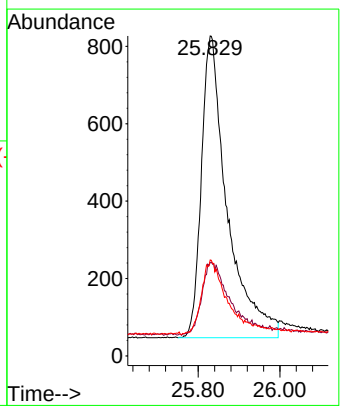


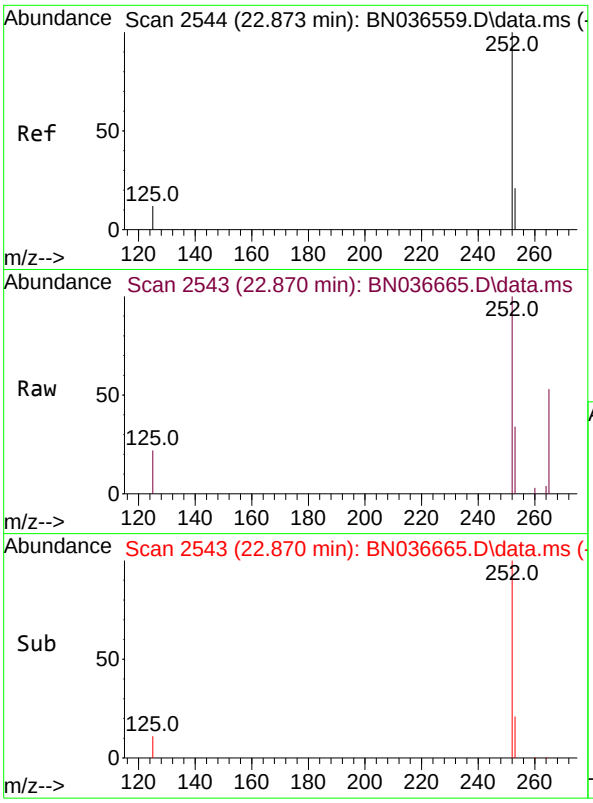


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.506 ng
RT: 25.829 min Scan# 3555
Delta R.T. -0.009 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:276 Resp: 3428

Ion	Ratio	Lower	Upper
276	100		
138	22.7	23.4	35.2#
277	22.8	20.0	30.0



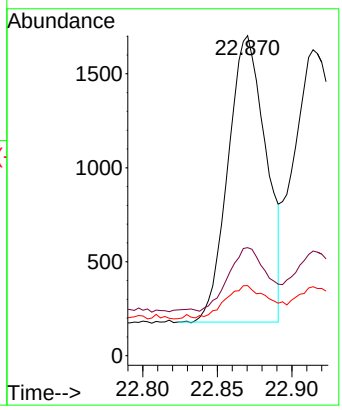


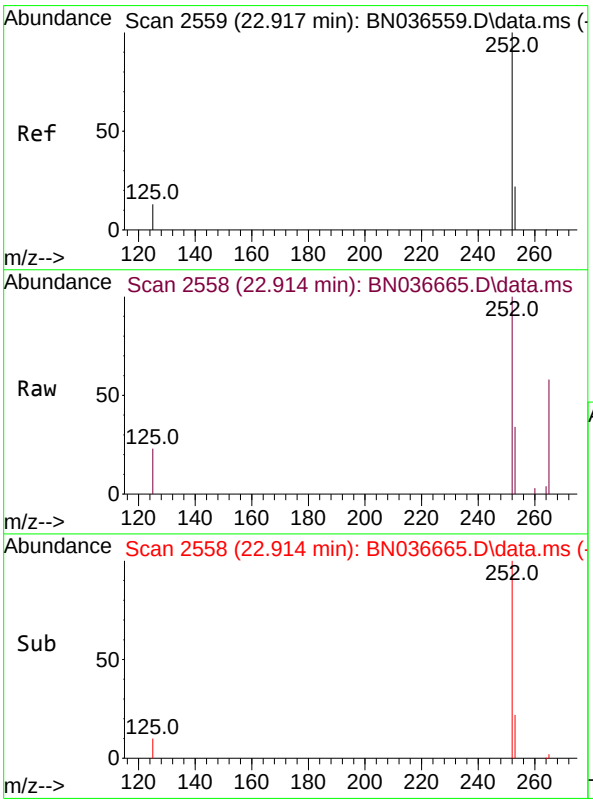
#37
Benzo(b)fluoranthene
Concen: 0.395 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:252 Resp: 2702

Ion	Ratio	Lower	Upper
252	100		
253	33.8	23.9	35.9
125	21.9	17.4	26.2

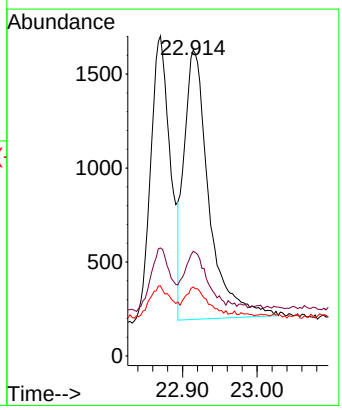


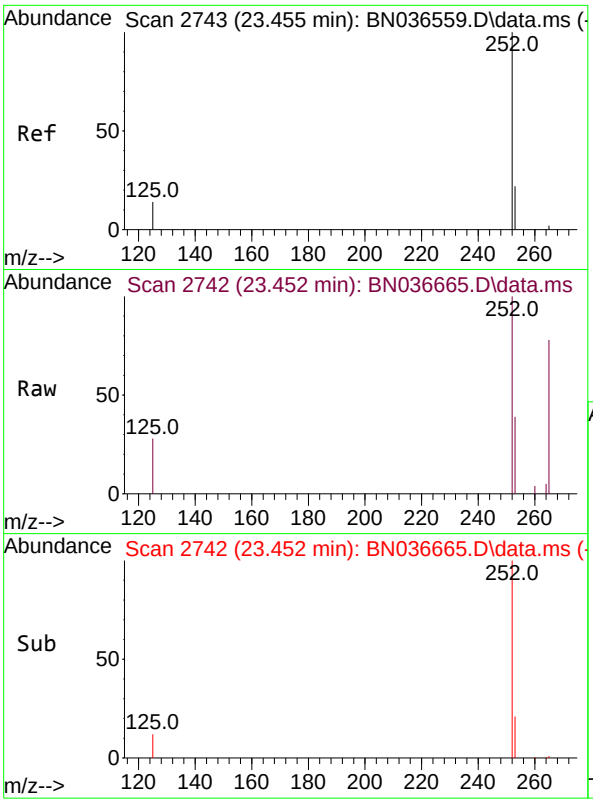


#38
Benzo(k)fluoranthene
Concen: 0.463 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:252 Resp: 3322

Ion	Ratio	Lower	Upper
252	100		
253	34.2	24.6	36.8
125	22.5	17.8	26.8



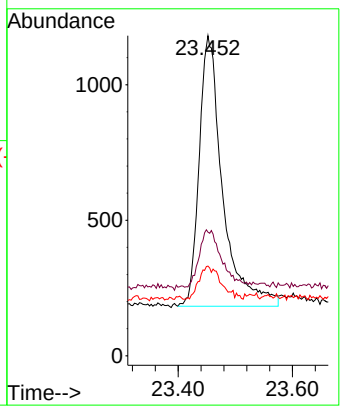


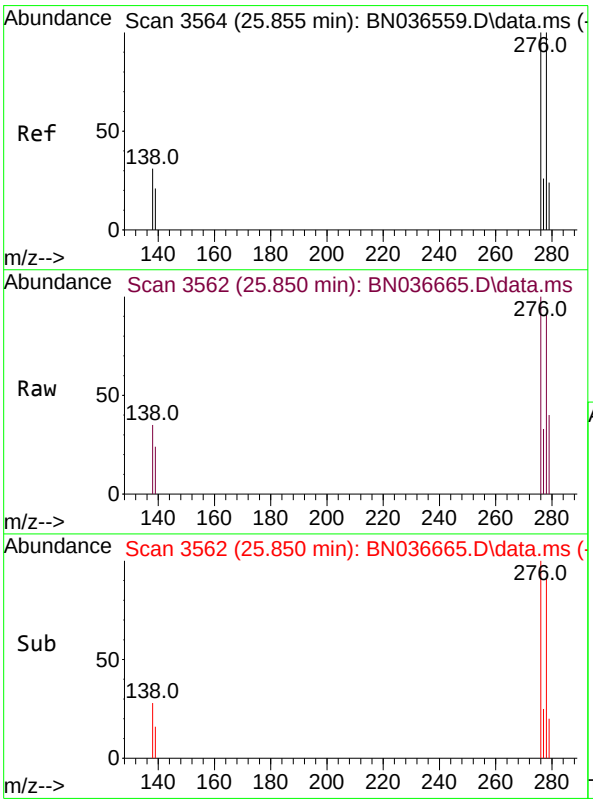
#39
Benzo(a)pyrene
Concen: 0.493 ng
RT: 23.452 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:252 Resp: 2835

Ion	Ratio	Lower	Upper
252	100		
253	38.6	27.8	41.8
125	28.0	22.7	34.1

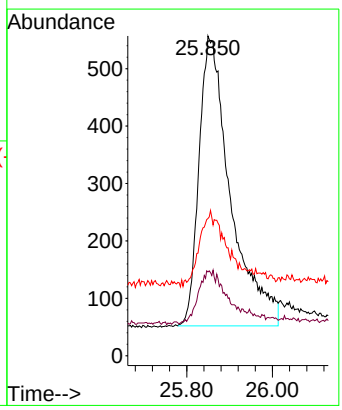


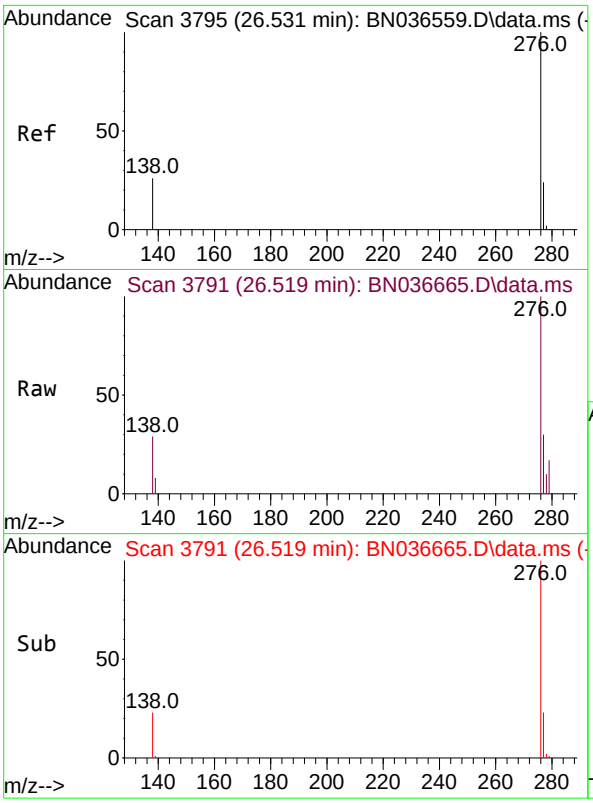


#40
Dibenzo(a,h)anthracene
Concen: 0.489 ng
RT: 25.850 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Tgt Ion:278 Resp: 2578

Ion	Ratio	Lower	Upper
278	100		
139	26.2	20.8	31.2
279	42.9	28.8	43.2



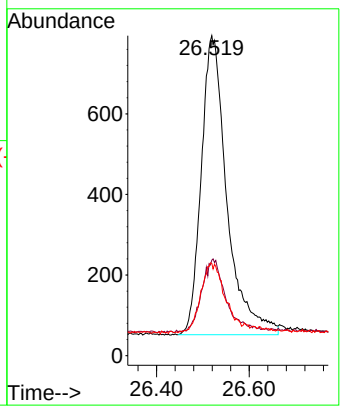


#41
Benzo(g,h,i)perylene
Concen: 0.473 ng
RT: 26.519 min Scan# 3
Delta R.T. -0.011 min
Lab File: BN036665.D
Acq: 17 Mar 2025 18:31

Instrument :
BNA_N
ClientSampleId :
PB167159BS

Tgt Ion:276 Resp: 2857

Ion	Ratio	Lower	Upper
276	100		
277	29.8	22.2	33.4
138	28.8	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 00:55:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

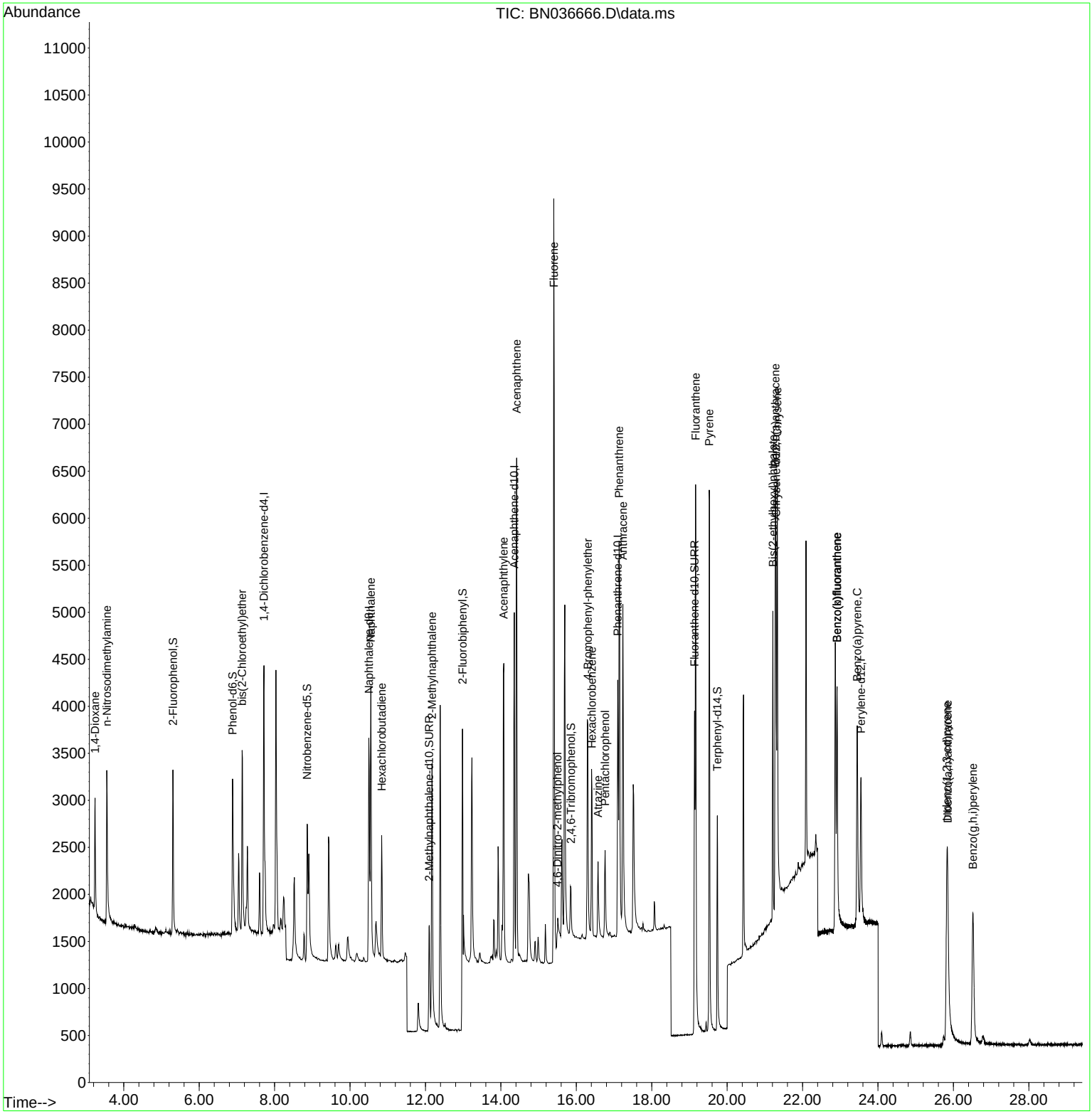
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	1400	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	3548	0.400	ng		-0.01
13) Acenaphthene-d10	14.356	164	2067	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	4004	0.400	ng		#-0.01
29) Chrysene-d12	21.295	240	2784	0.400	ng		0.00
35) Perylene-d12	23.549	264	2401	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	1336	0.409	ng		0.00
5) Phenol-d6	6.887	99	1589	0.394	ng		-0.01
8) Nitrobenzene-d5	8.865	82	1411	0.366	ng		-0.01
11) 2-Methylnaphthalene-d10	12.101	152	2112	0.400	ng		-0.01
14) 2,4,6-Tribromophenol	15.858	330	387	0.413	ng		0.00
15) 2-Fluorobiphenyl	12.983	172	4842	0.403	ng		0.00
27) Fluoranthene-d10	19.136	212	4416	0.430	ng		0.00
31) Terphenyl-d14	19.740	244	2760	0.414	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	747	0.481	ng		97
3) n-Nitrosodimethylamine	3.550	42	1500	0.477	ng		88
6) bis(2-Chloroethyl)ether	7.139	93	1583	0.380	ng		98
9) Naphthalene	10.552	128	4134	0.396	ng		98
10) Hexachlorobutadiene	10.840	225	1029	0.419	ng	#	98
12) 2-Methylnaphthalene	12.172	142	2633	0.396	ng		95
16) Acenaphthylene	14.078	152	4009	0.411	ng		100
17) Acenaphthene	14.420	154	2697	0.422	ng		99
18) Fluorene	15.403	166	3637	0.421	ng		99
20) 4,6-Dinitro-2-methylph...	15.499	198	285	0.424	ng		94
21) 4-Bromophenyl-phenylether	16.305	248	1057	0.421	ng	#	83
22) Hexachlorobenzene	16.416	284	1345	0.444	ng		94
23) Atrazine	16.578	200	916	0.455	ng		97
24) Pentachlorophenol	16.764	266	582	0.421	ng		97
25) Phenanthrene	17.136	178	5204	0.433	ng		99
26) Anthracene	17.235	178	4660	0.430	ng		99
28) Fluoranthene	19.164	202	5887	0.436	ng		98
30) Pyrene	19.527	202	5967	0.438	ng		100
32) Benzo(a)anthracene	21.277	228	3762	0.389	ng		99
33) Chrysene	21.331	228	4705	0.445	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3084	0.447	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.826	276	3581	0.413	ng	#	94
37) Benzo(b)fluoranthene	22.914	252	3889	0.445	ng		96
38) Benzo(k)fluoranthene	22.914	252	3889	0.424	ng		97
39) Benzo(a)pyrene	23.449	252	3280	0.446	ng	#	87
40) Dibenzo(a,h)anthracene	25.849	278	2826	0.419	ng		95
41) Benzo(g,h,i)perylene	26.519	276	3263	0.423	ng		99

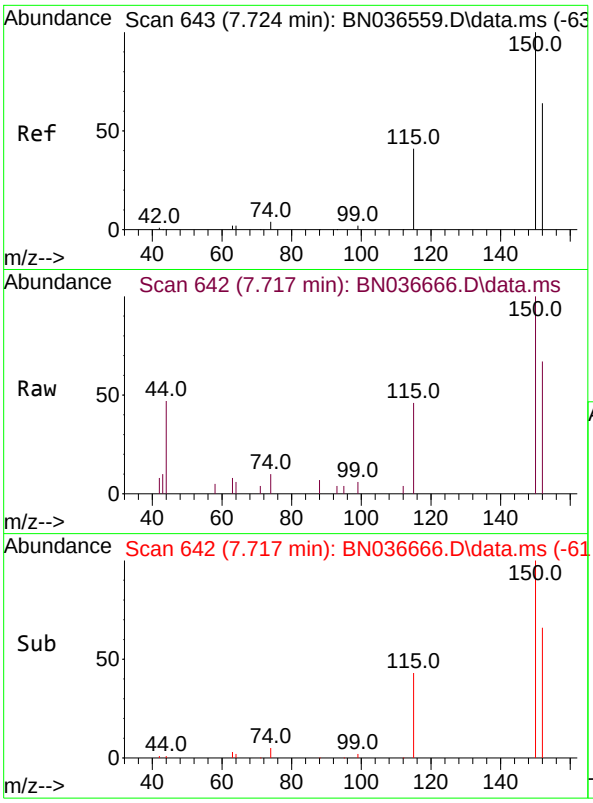
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036666.D
Acq On : 17 Mar 2025 19:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 18 00:55:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



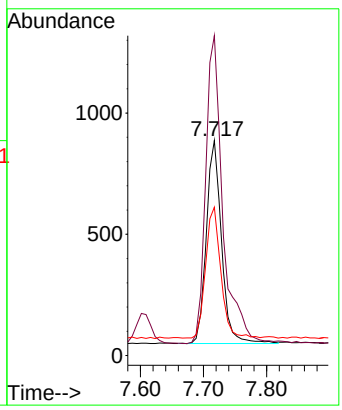


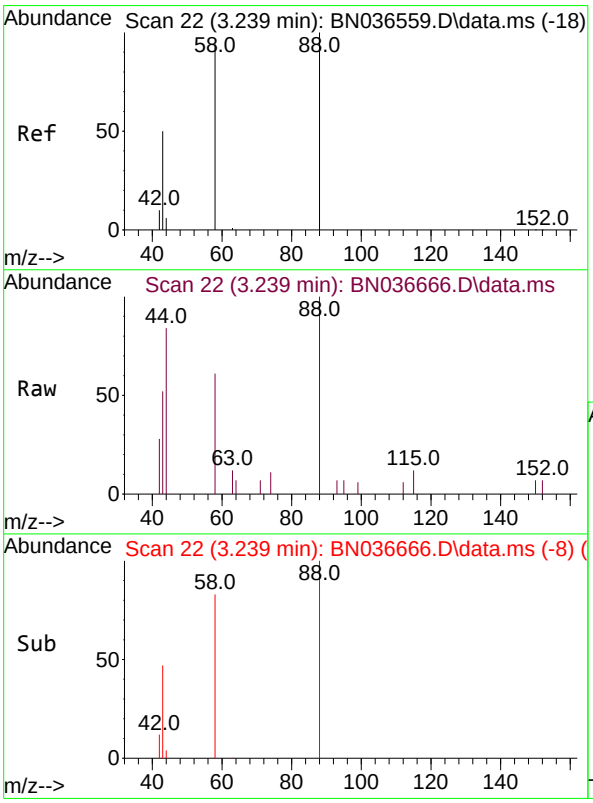
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1400

Ion	Ratio	Lower	Upper
152	100		
150	148.7	123.7	185.5
115	69.0	54.3	81.5

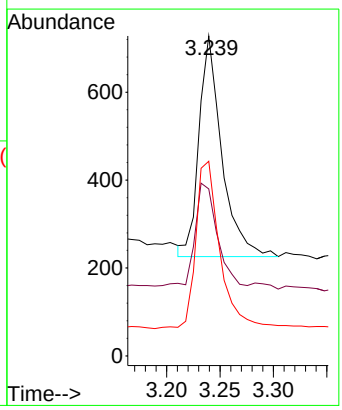


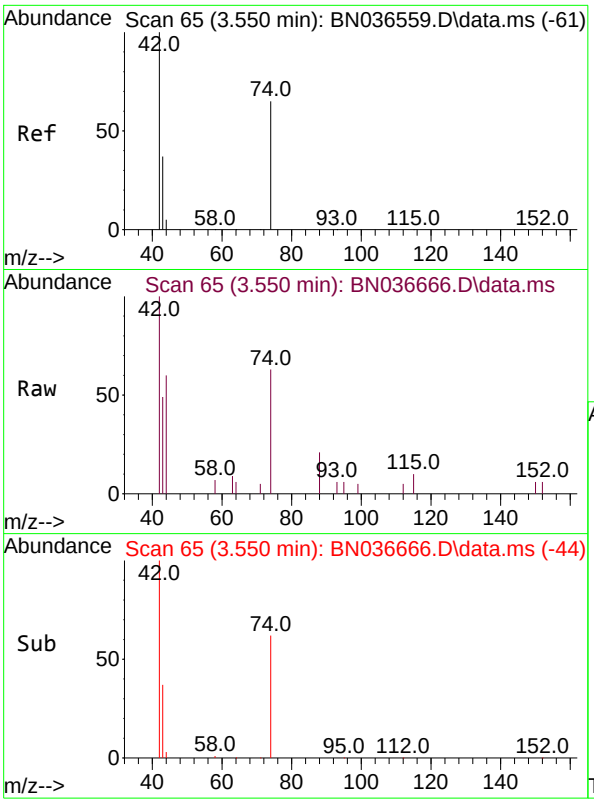


#2
1,4-Dioxane
Concen: 0.481 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 88 Resp: 747

Ion	Ratio	Lower	Upper
88	100		
43	46.2	37.8	56.8
58	80.9	67.4	101.2



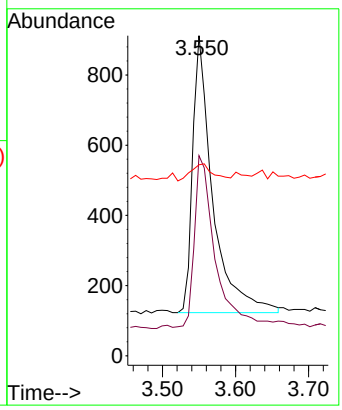


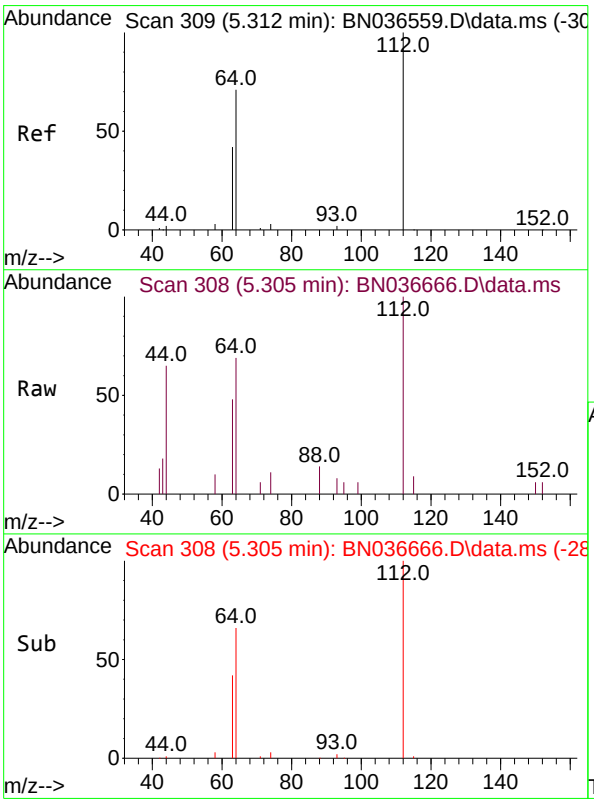
#3
n-Nitrosodimethylamine
Concen: 0.477 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1500

Ion	Ratio	Lower	Upper
42	100		
74	65.0	60.6	90.8
44	6.9	6.3	9.5

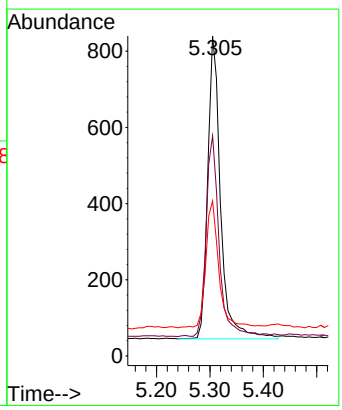


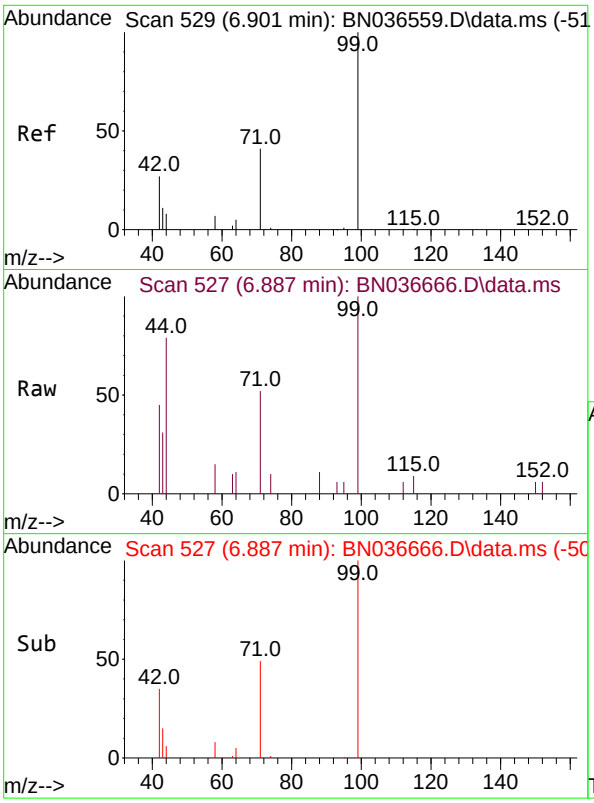


#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:112 Resp: 1336

Ion	Ratio	Lower	Upper
112	100		
64	68.0	53.1	79.7
63	43.6	31.8	47.8



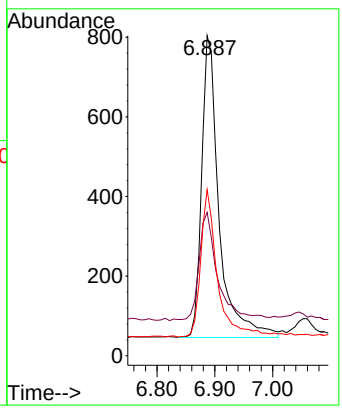


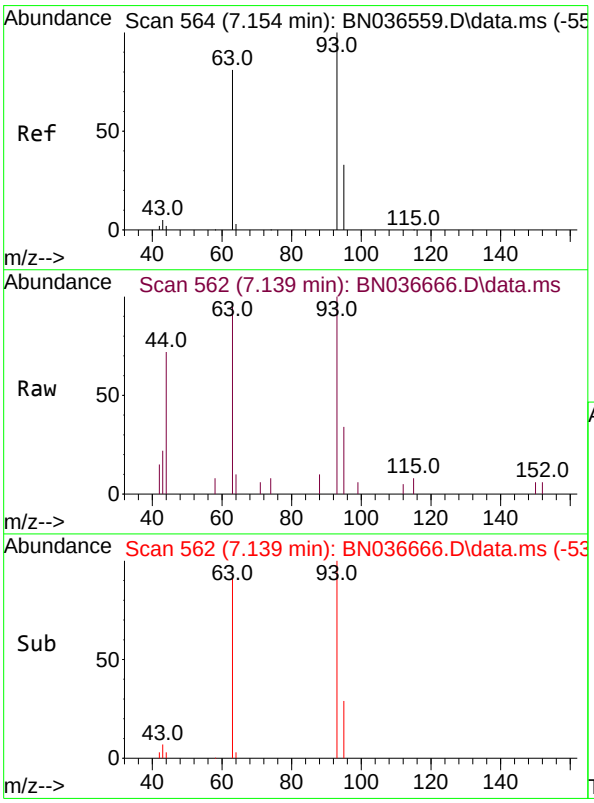
#5
Phenol-d6
Concen: 0.394 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1589

Ion	Ratio	Lower	Upper
99	100		
42	39.2	26.5	39.7
71	48.1	34.1	51.1

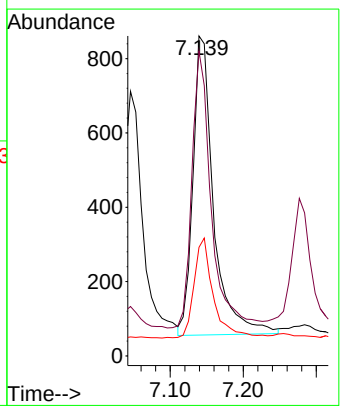


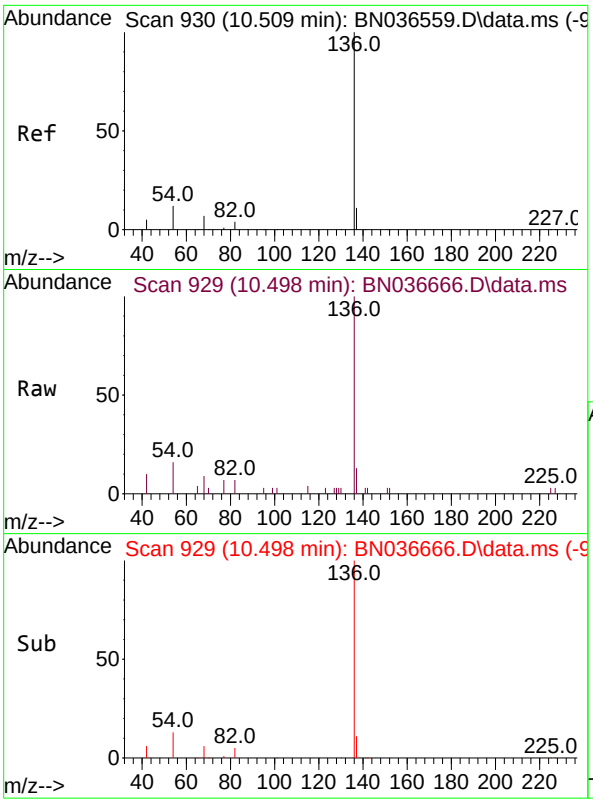


#6
bis(2-Chloroethyl)ether
Concen: 0.380 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 93 Resp: 1583

Ion	Ratio	Lower	Upper
93	100		
63	86.4	67.7	101.5
95	31.5	25.6	38.4



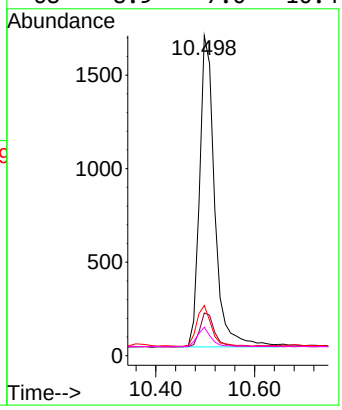


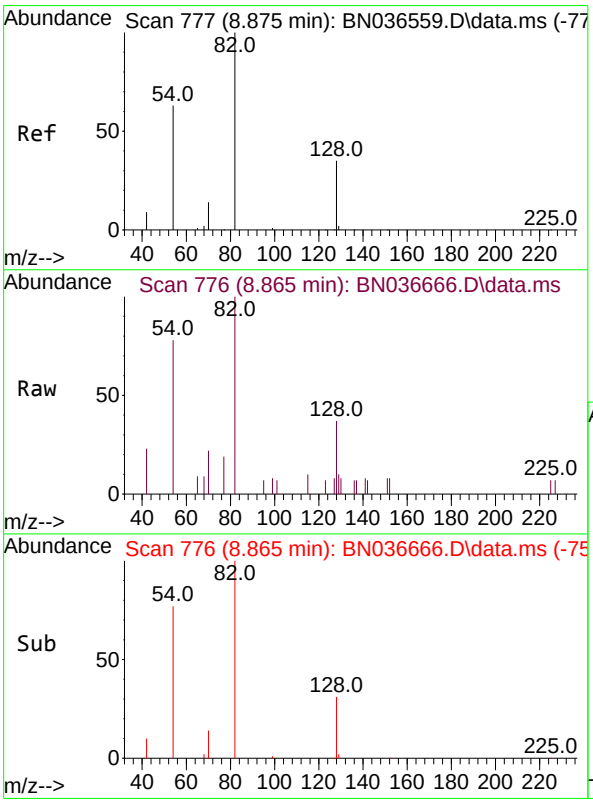
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 3548

Ion	Ratio	Lower	Upper
136	100		
137	13.4	10.3	15.5
54	15.7	11.5	17.3
68	8.9	7.0	10.4

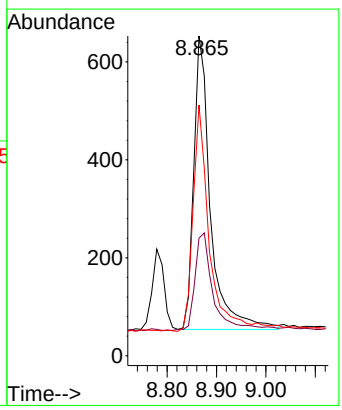


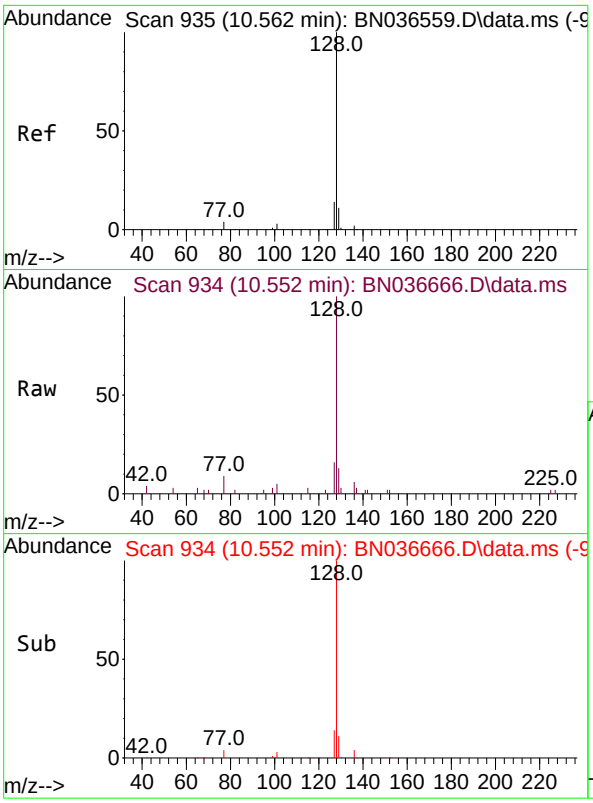


#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion: 82 Resp: 1411

Ion	Ratio	Lower	Upper
82	100		
128	36.8	30.6	45.8
54	78.4	52.2	78.4#



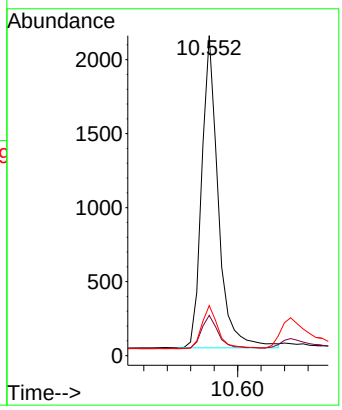


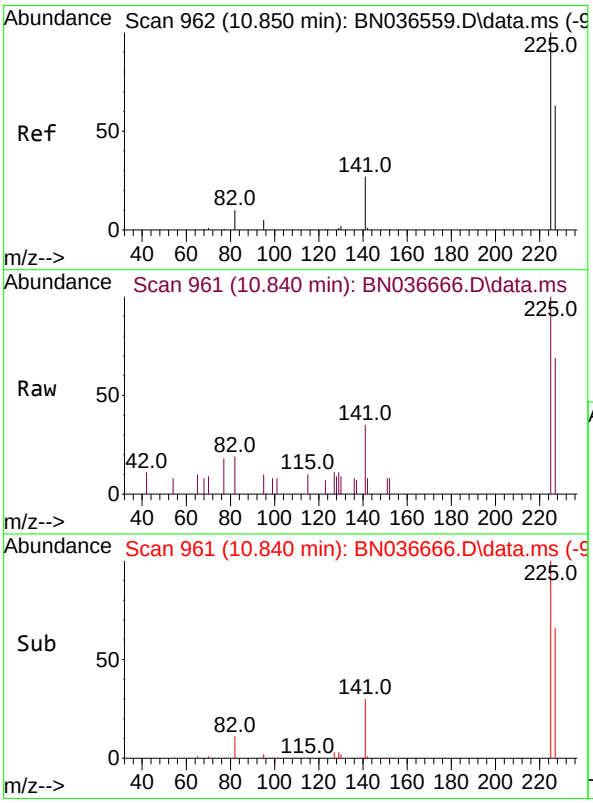
#9
Naphthalene
Concen: 0.396 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4134

Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.8	14.6
127	15.6	11.8	17.8

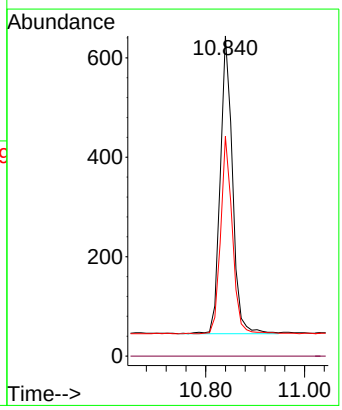


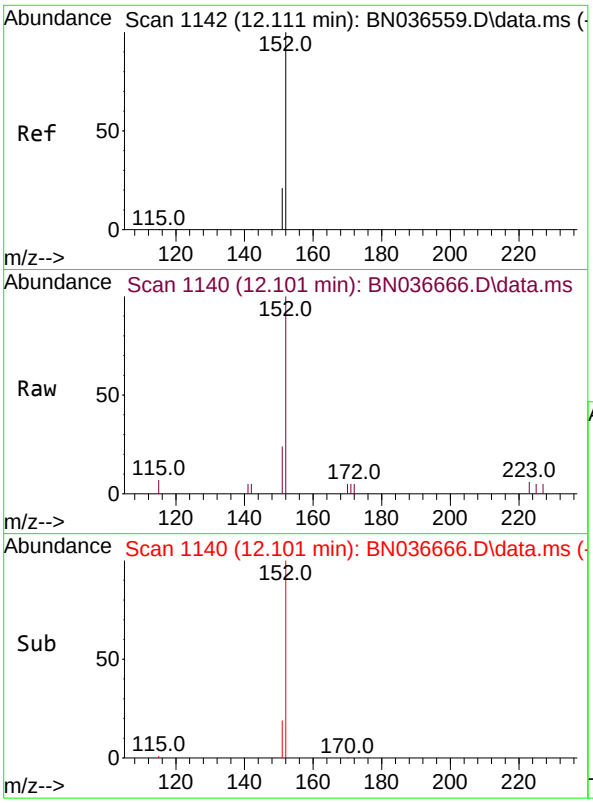


#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:225 Resp: 1029

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8



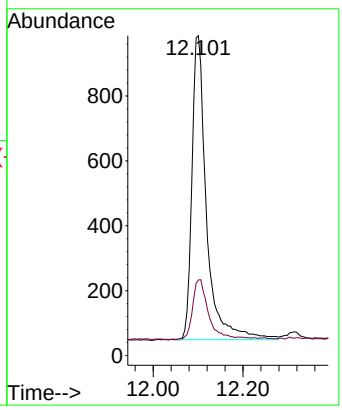


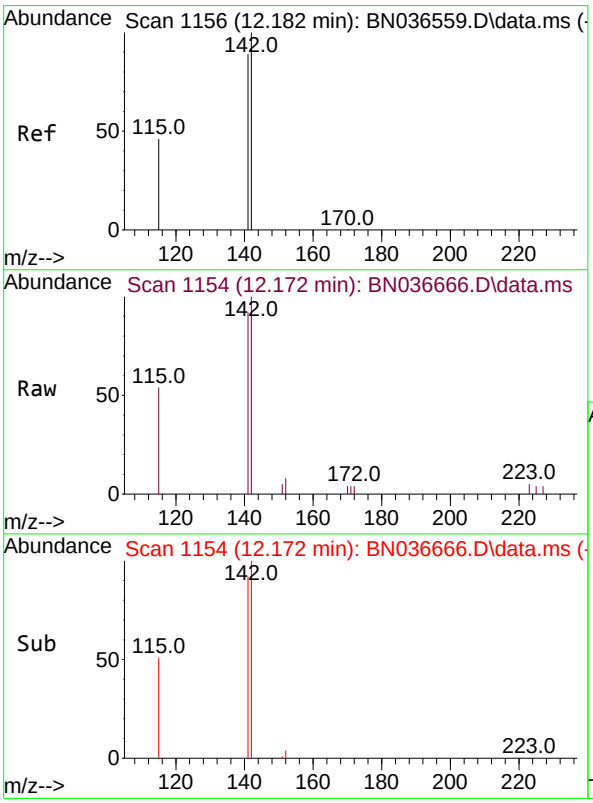
#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 12.101 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2112

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.0	25.6

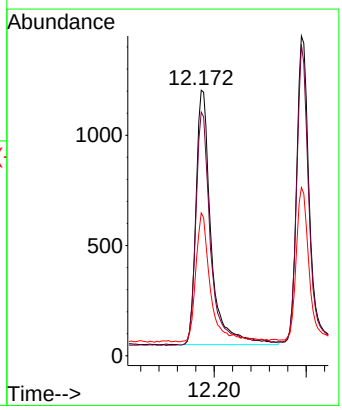


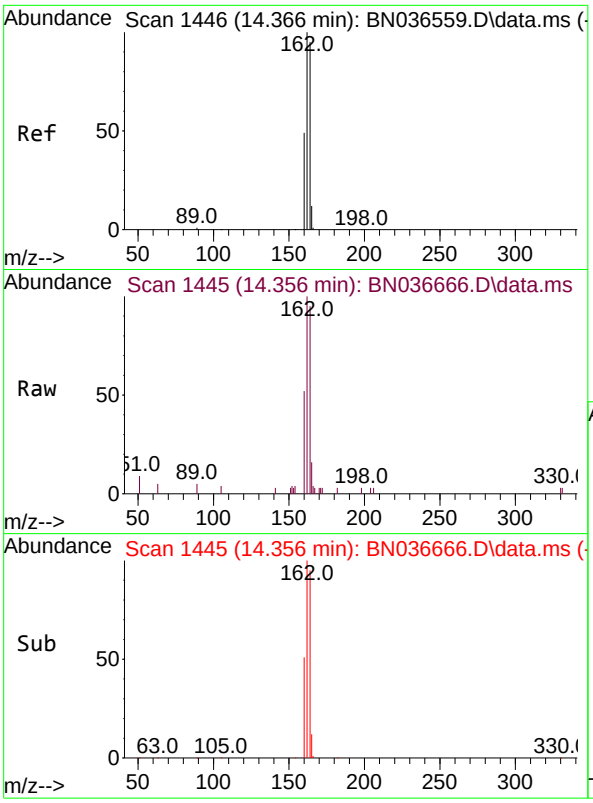


#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:142 Resp: 2633

Ion	Ratio	Lower	Upper
142	100		
141	91.8	71.7	107.5
115	53.8	38.3	57.5



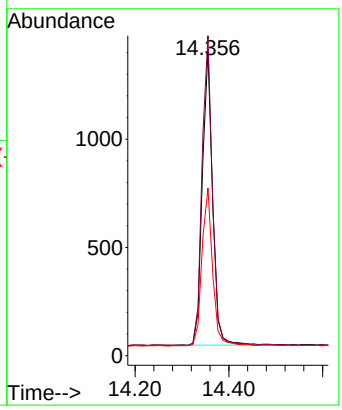


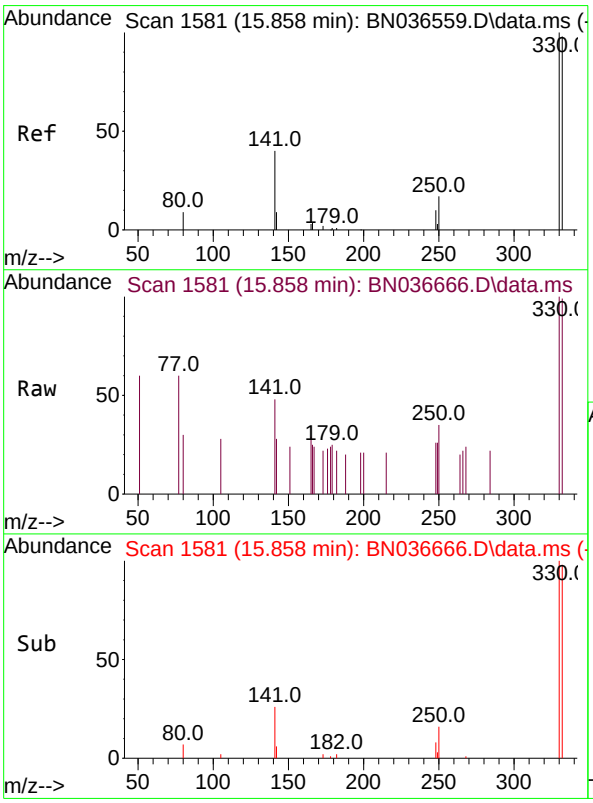
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2067

Ion	Ratio	Lower	Upper
164	100		
162	105.1	84.2	126.2
160	55.0	42.2	63.2

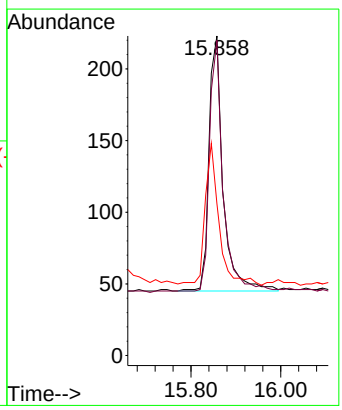


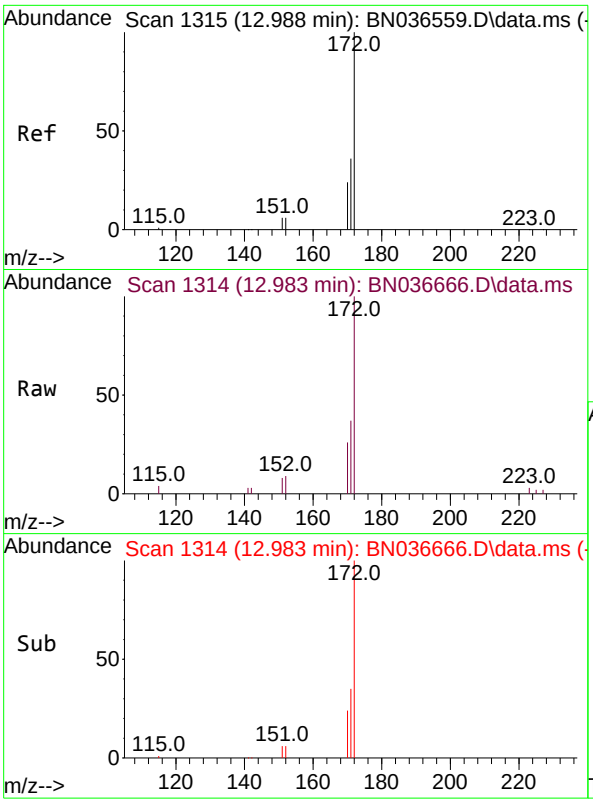


#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:330 Resp: 387

Ion	Ratio	Lower	Upper
330	100		
332	94.1	75.2	112.8
141	54.8	43.4	65.2



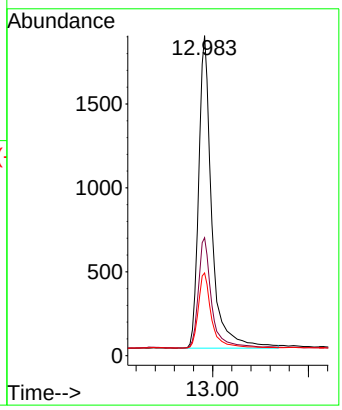


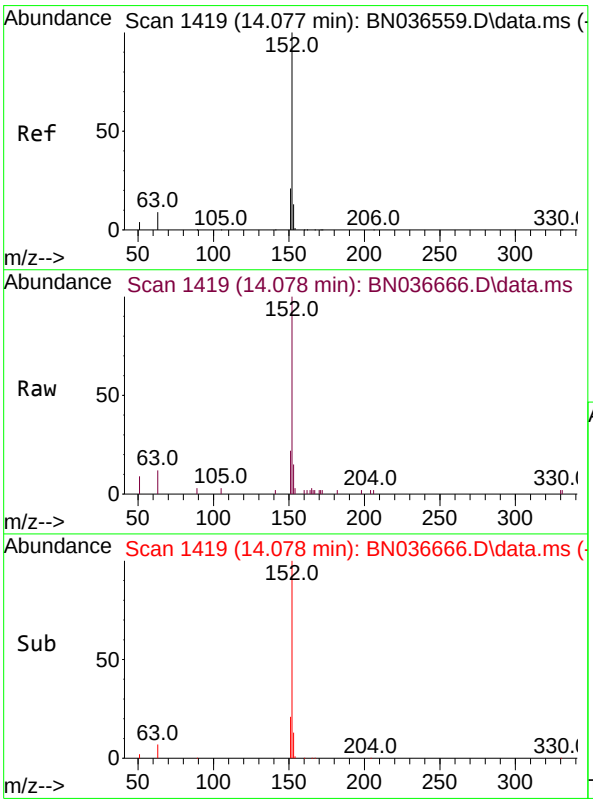
#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 4842

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.5	44.3
170	25.9	20.2	30.4

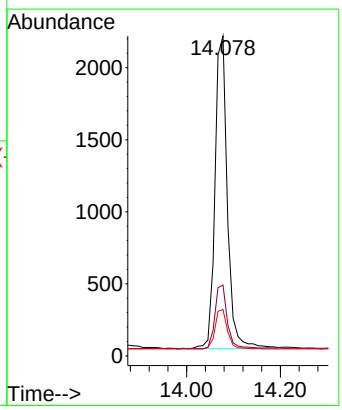


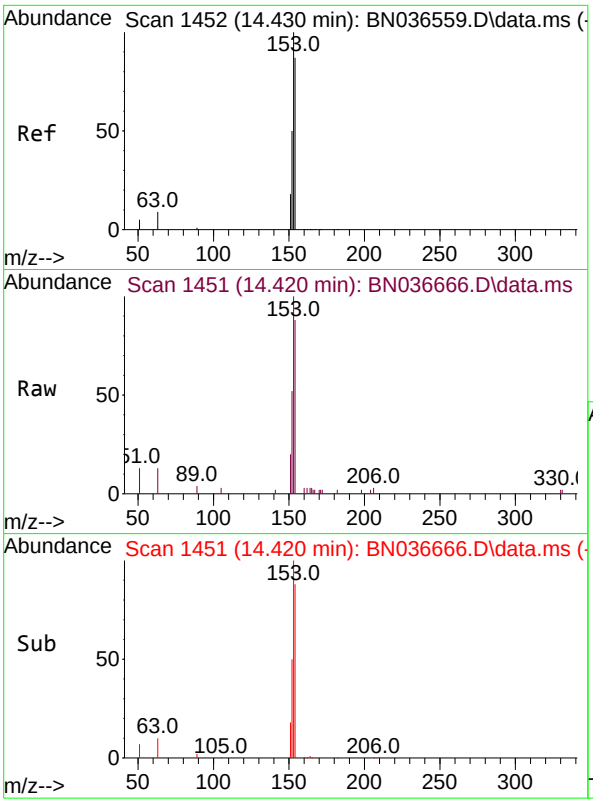


#16
Acenaphthylene
Concen: 0.411 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:152 Resp: 4009

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.0	10.6	15.8



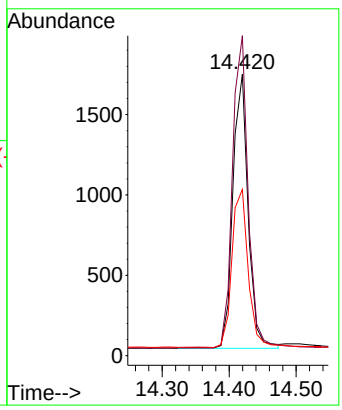


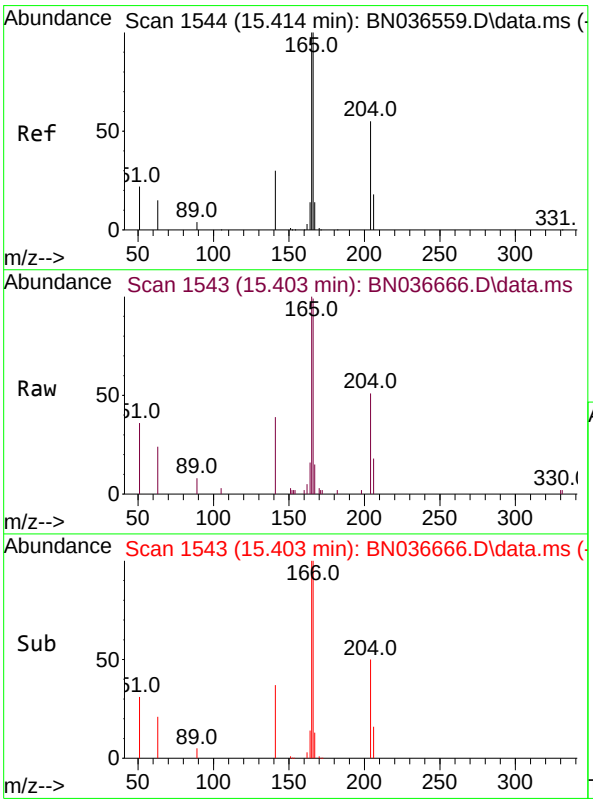
#17
Acenaphthene
Concen: 0.422 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2697

Ion	Ratio	Lower	Upper
154	100		
153	116.7	94.1	141.1
152	61.7	49.8	74.6

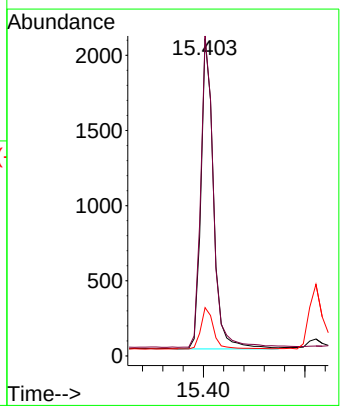


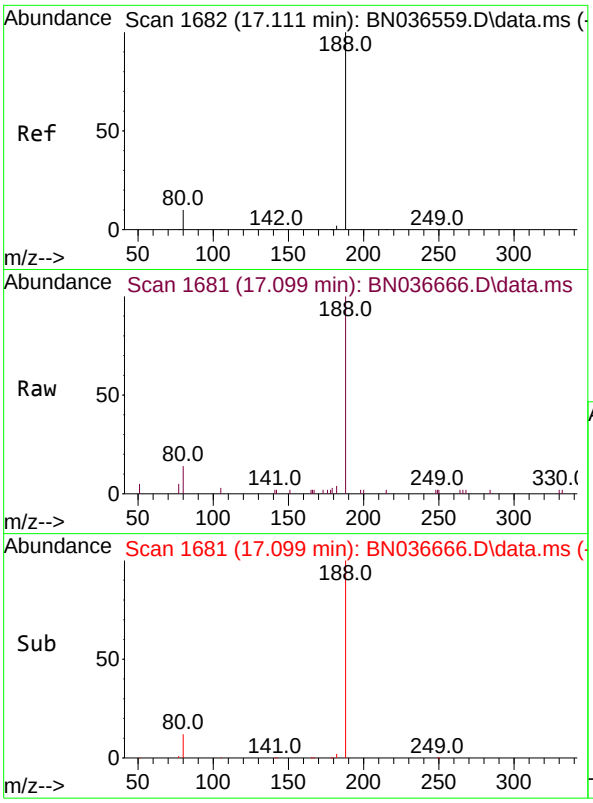


#18
Fluorene
Concen: 0.421 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:166 Resp: 3637

Ion	Ratio	Lower	Upper
166	100		
165	100.9	79.8	119.8
167	13.4	10.6	15.8



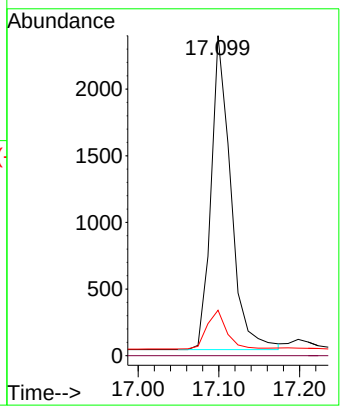


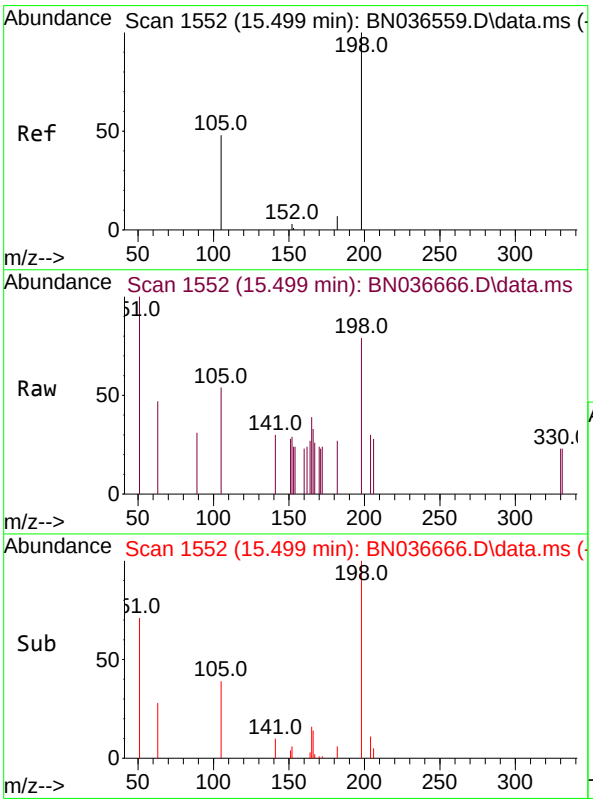
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 4004

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

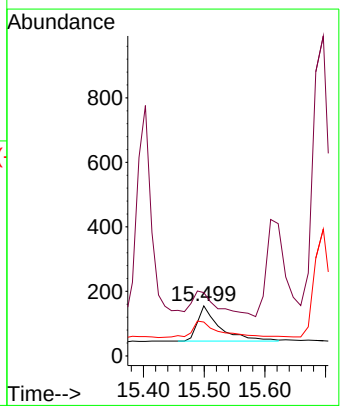


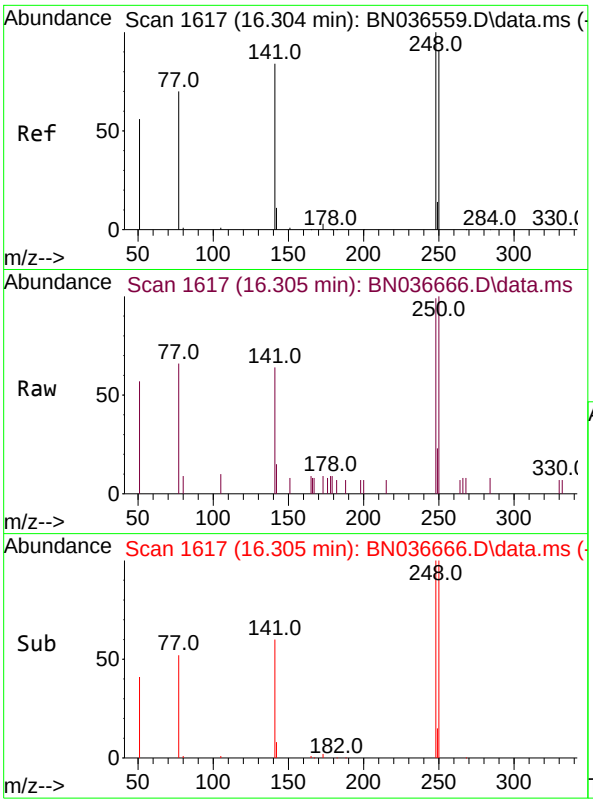


#20
4,6-Dinitro-2-methylphenol
Concen: 0.424 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:198 Resp: 285

Ion	Ratio	Lower	Upper
198	100		
51	126.5	107.9	161.9
105	67.7	56.2	84.2



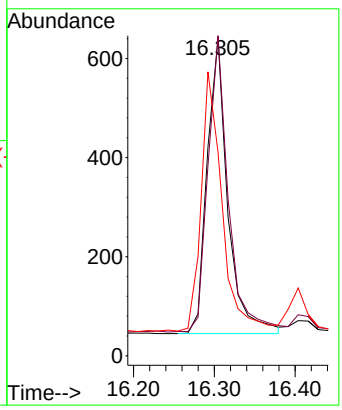


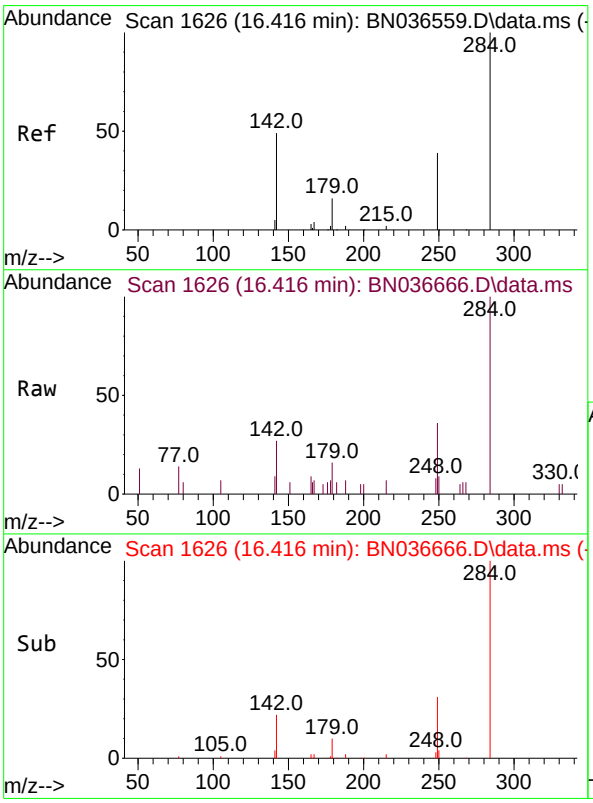
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1057

Ion	Ratio	Lower	Upper
248	100		
250	100.6	73.0	109.6
141	64.0	68.6	103.0#

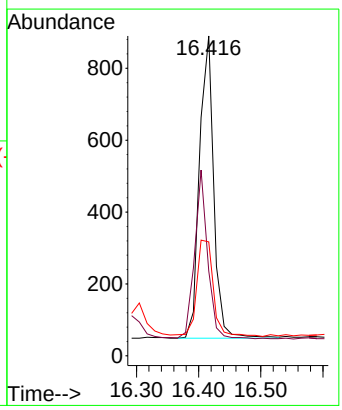


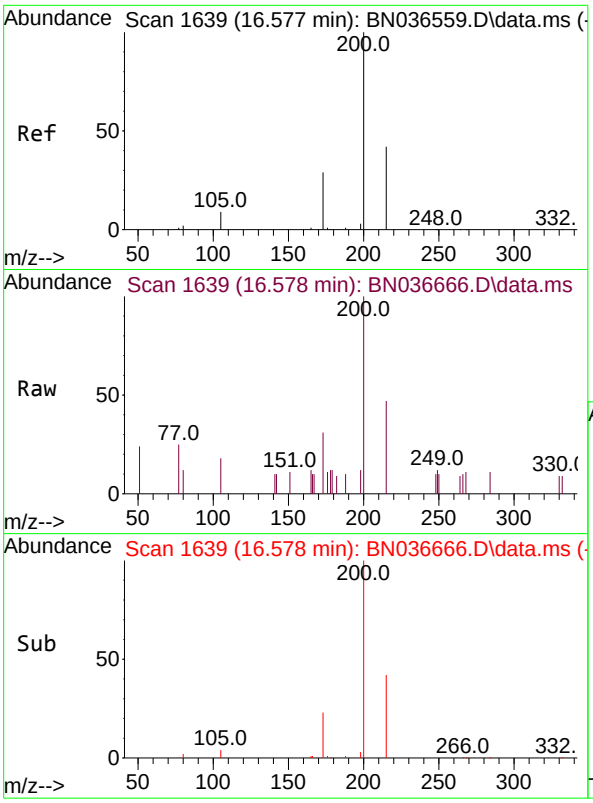


#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:284 Resp: 1345

Ion	Ratio	Lower	Upper
284	100		
142	50.9	37.0	55.4
249	37.2	28.1	42.1



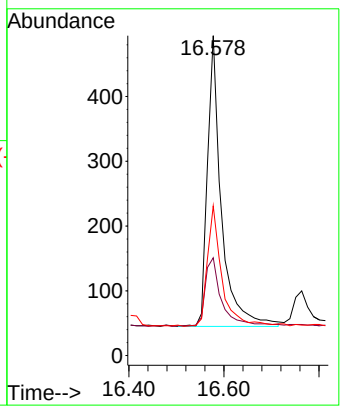


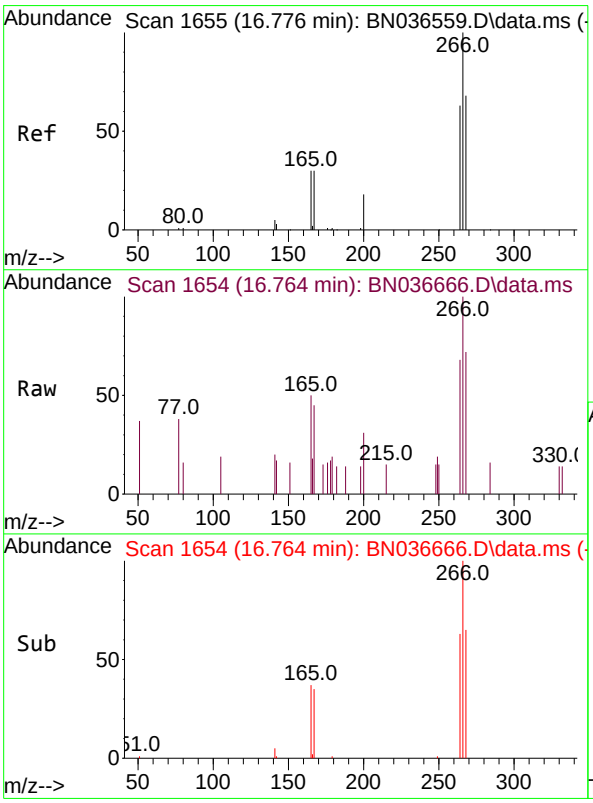
#23
Atrazine
Concen: 0.455 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 916

Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	46.8	36.8	55.2

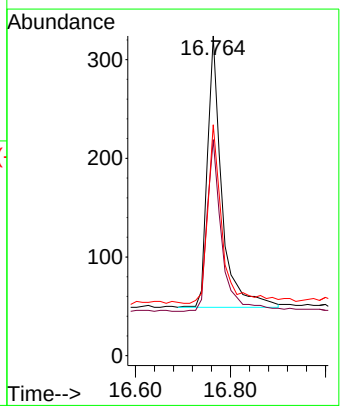


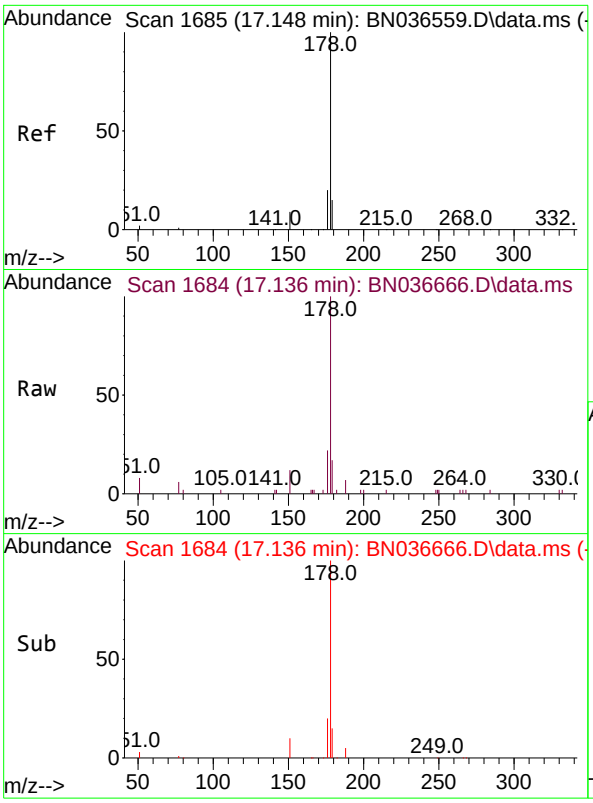


#24
Pentachlorophenol
Concen: 0.421 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:266 Resp: 582

Ion	Ratio	Lower	Upper
266	100		
264	64.6	49.6	74.4
268	65.5	50.9	76.3



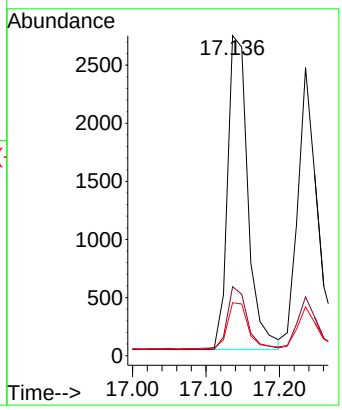


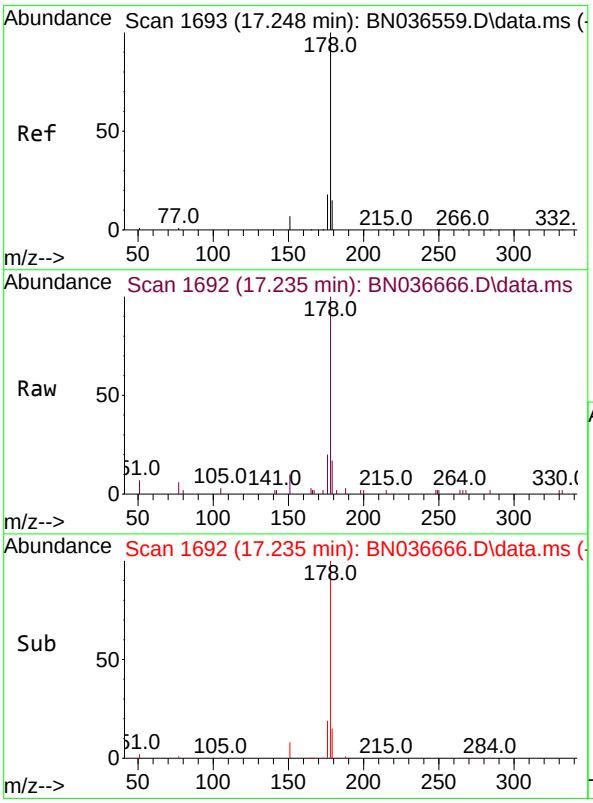
#25
Phenanthrene
Concen: 0.433 ng
RT: 17.136 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 5204

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.9	23.9
179	15.2	12.2	18.4

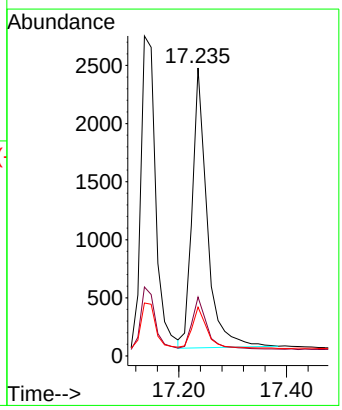


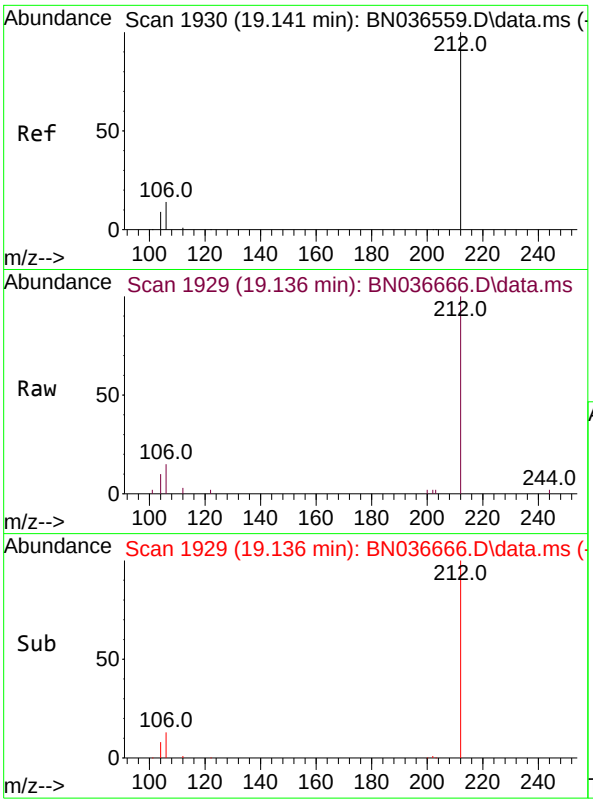


#26
Anthracene
Concen: 0.430 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:178 Resp: 4660

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.5	12.6	18.8



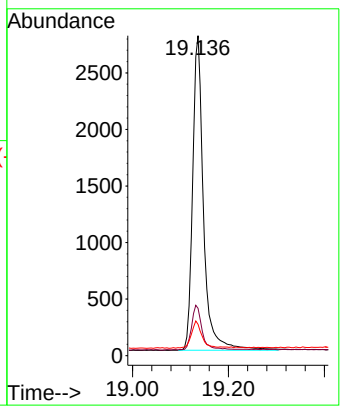


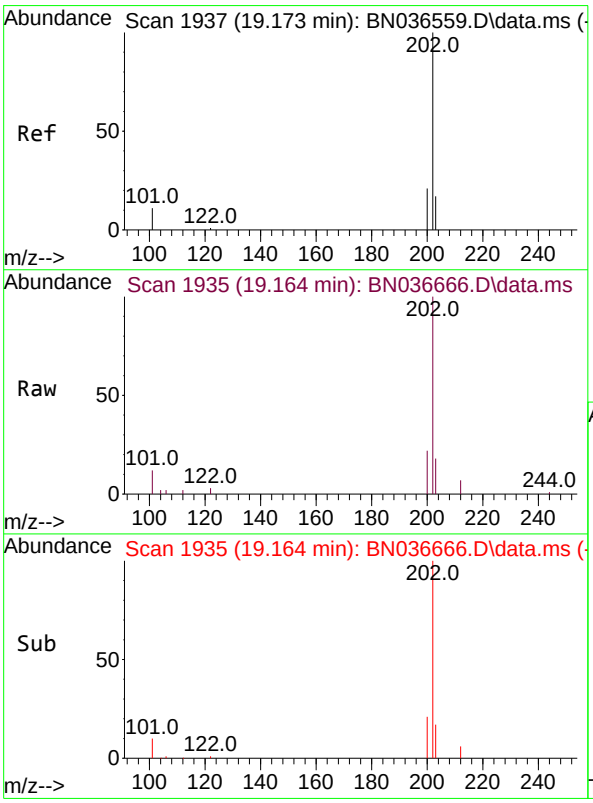
#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 4416

Ion	Ratio	Lower	Upper
212	100		
106	13.7	11.8	17.6
104	8.0	7.3	10.9

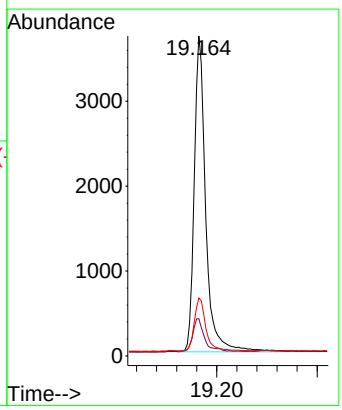


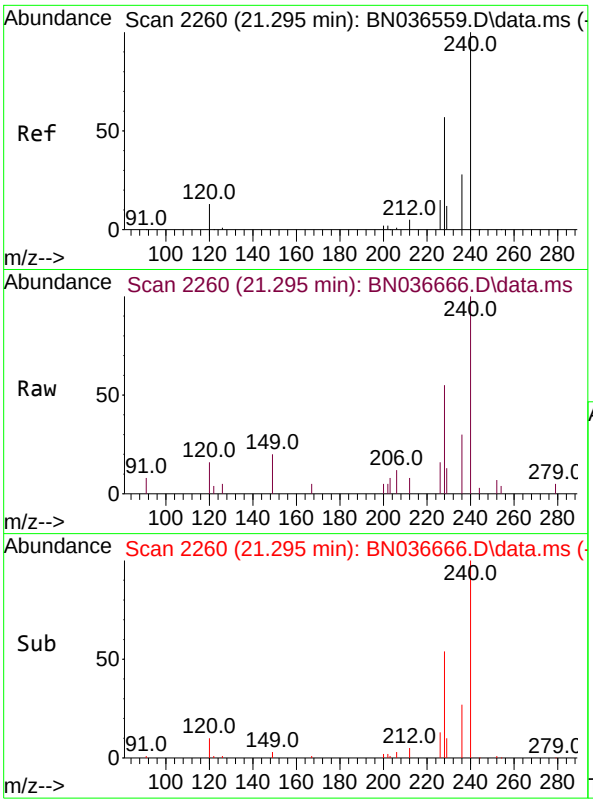


#28
Fluoranthene
Concen: 0.436 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:202 Resp: 5887

Ion	Ratio	Lower	Upper
202	100		
101	10.5	9.4	14.0
203	16.6	13.5	20.3



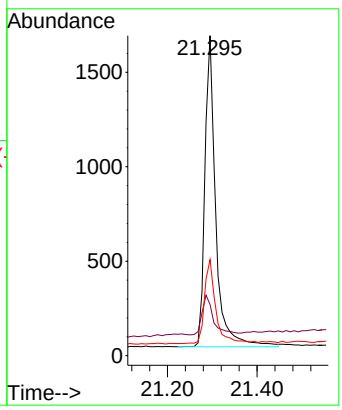


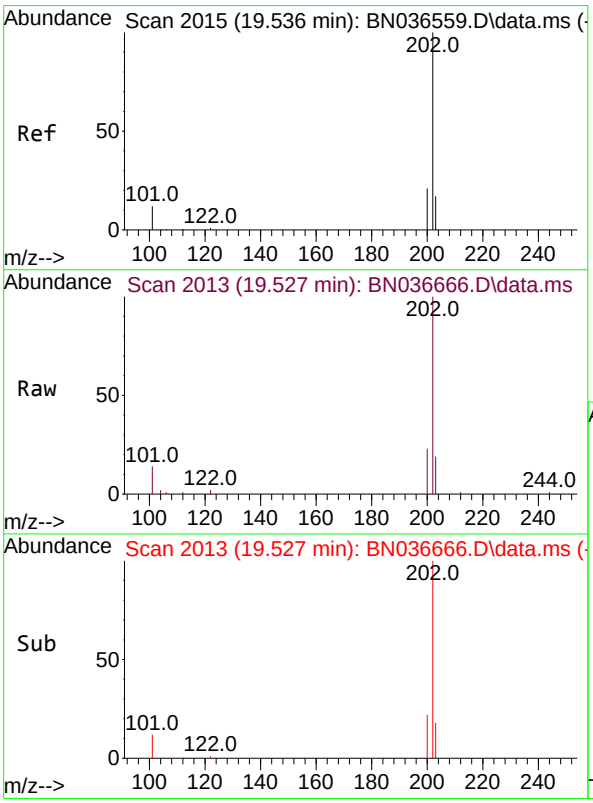
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 2784

Ion	Ratio	Lower	Upper
240	100		
120	16.0	14.6	22.0
236	30.0	24.1	36.1

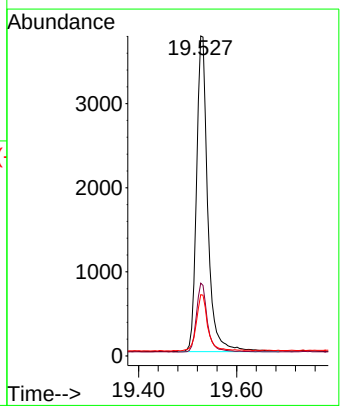


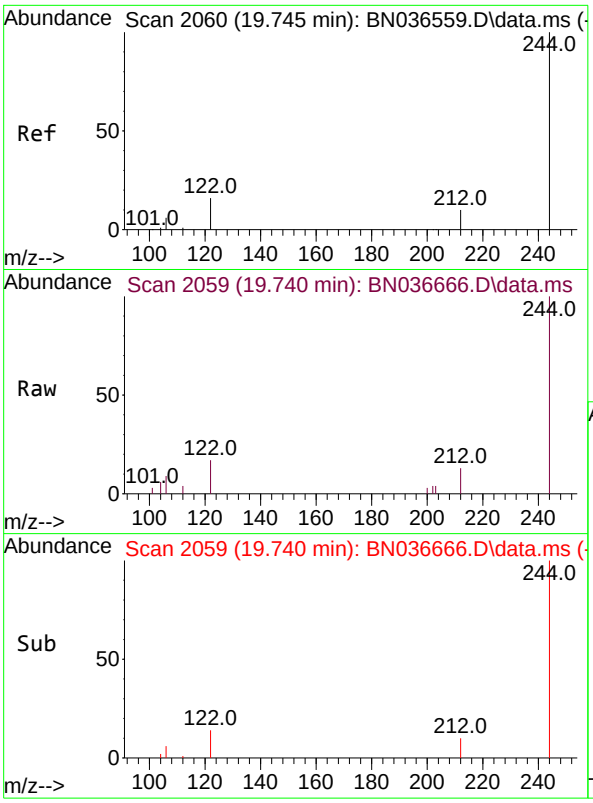


#30
Pyrene
Concen: 0.438 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:202 Resp: 5967

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.8	14.1	21.1



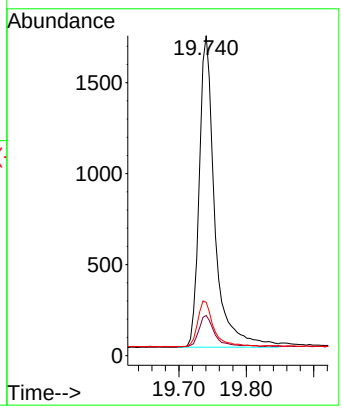


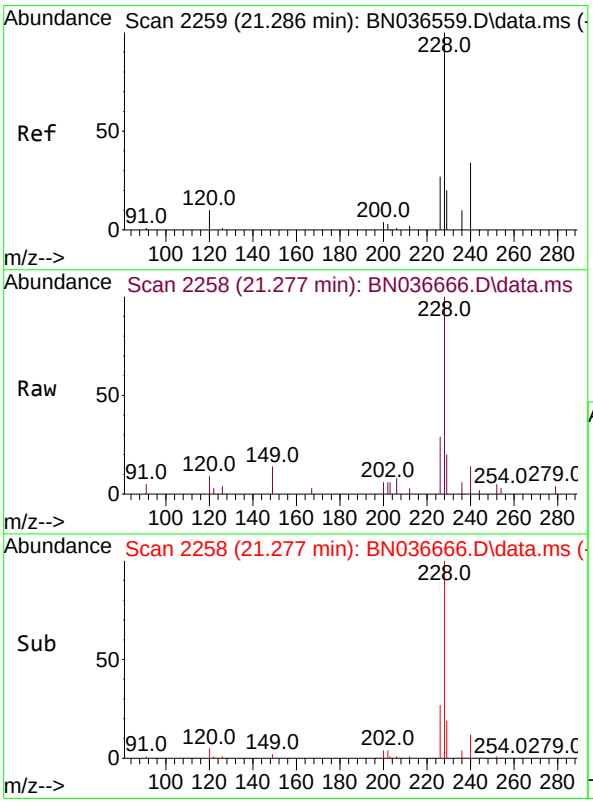
#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 2760

Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.6	14.4
122	16.7	13.9	20.9

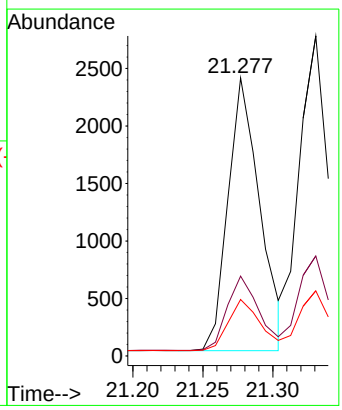


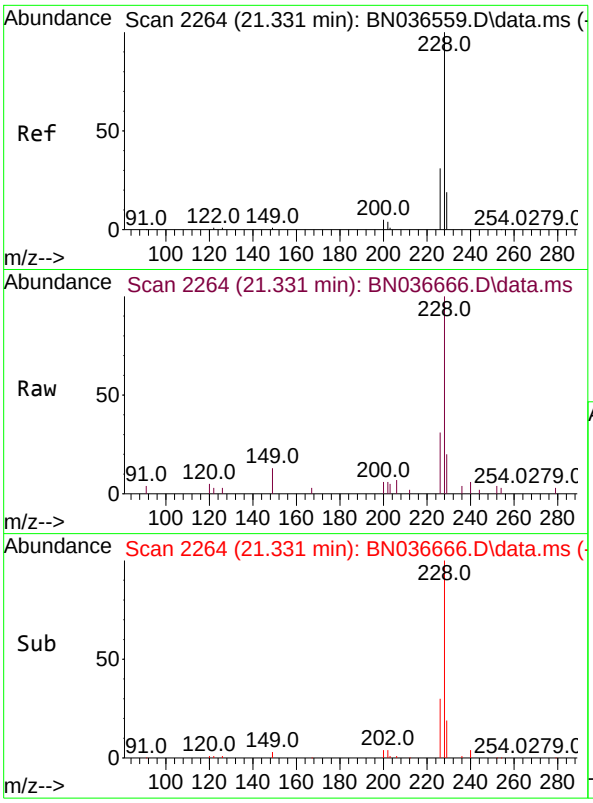


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:228 Resp: 3762

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	20.3	16.6	25.0



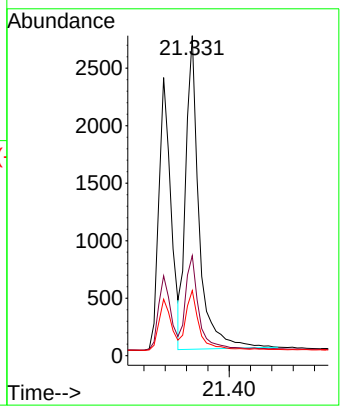


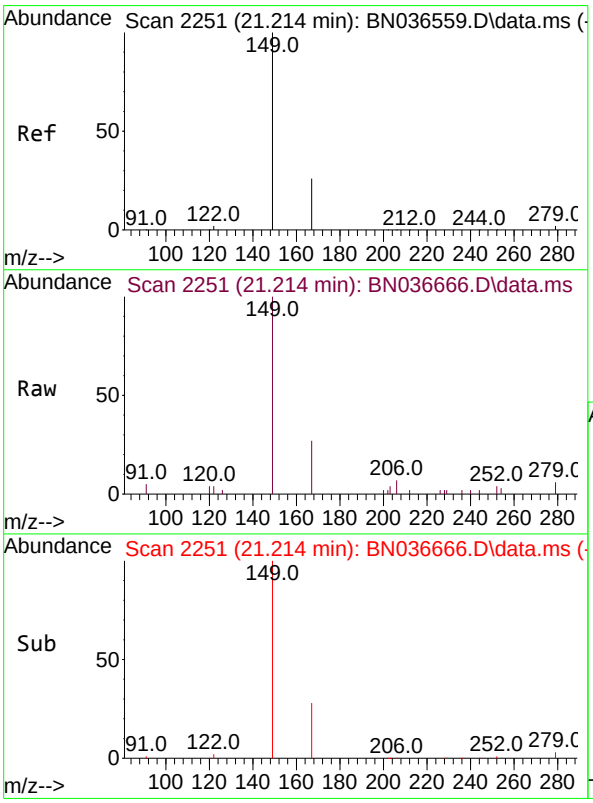
#33
Chrysene
Concen: 0.445 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 4705

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.3	37.9
229	20.4	15.8	23.8

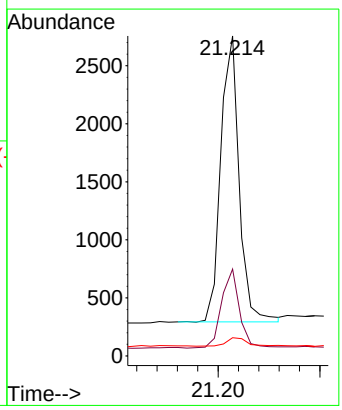


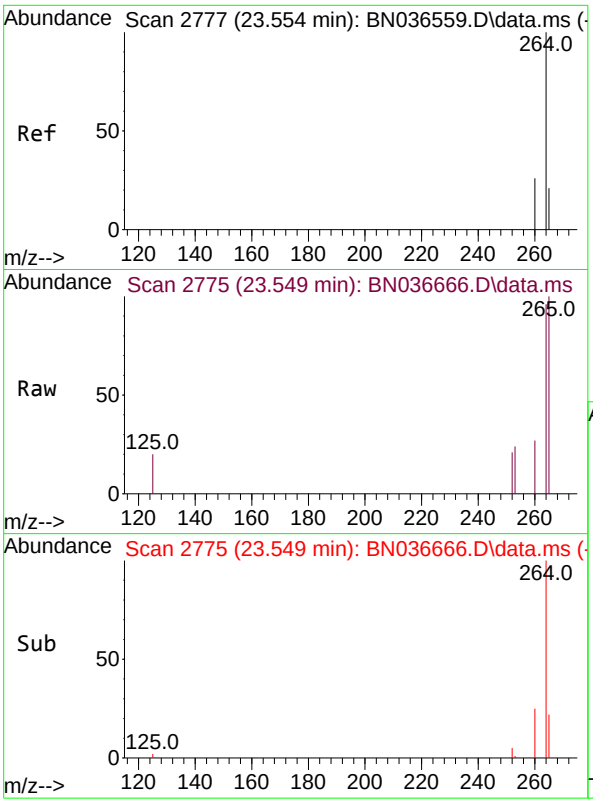


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.447 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:149 Resp: 3084

Ion	Ratio	Lower	Upper
149	100		
167	27.0	20.7	31.1
279	3.5	3.6	5.4#



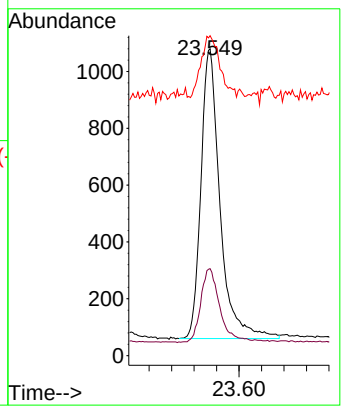


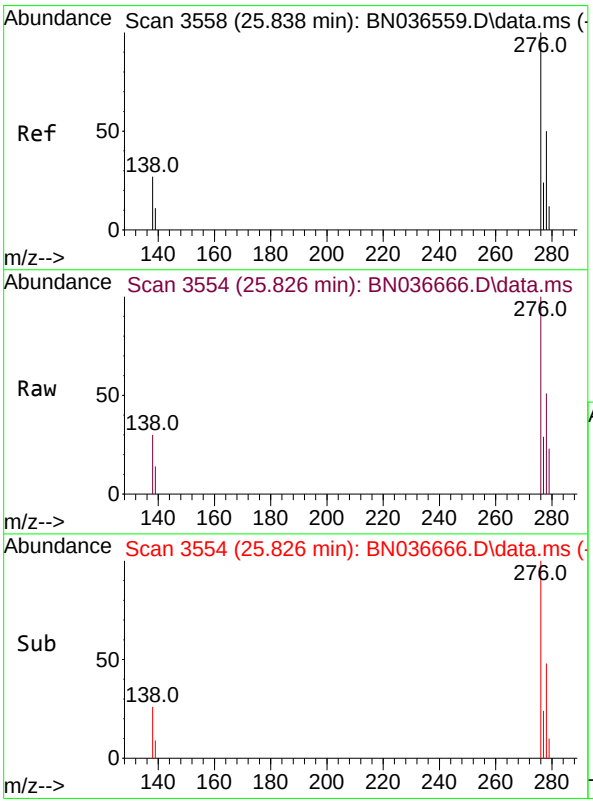
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.549 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 2401

Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.6	33.8
265	104.3	88.1	132.1

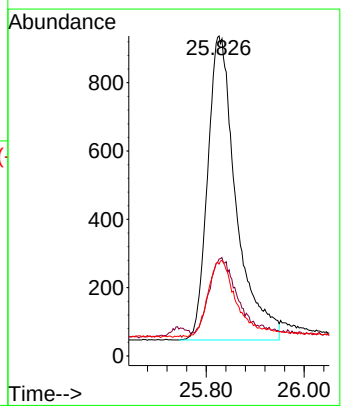


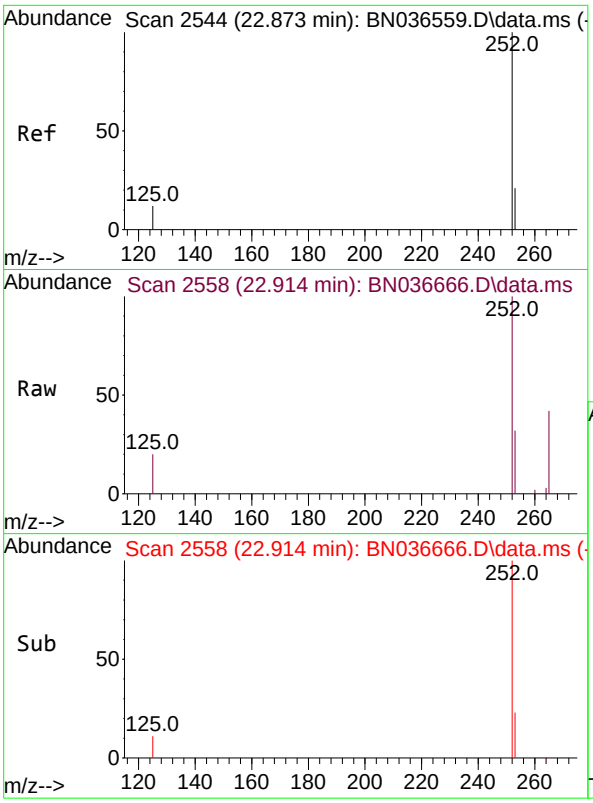


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.413 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:276 Resp: 3581

Ion	Ratio	Lower	Upper
276	100		
138	23.3	23.4	35.2#
277	25.1	20.0	30.0



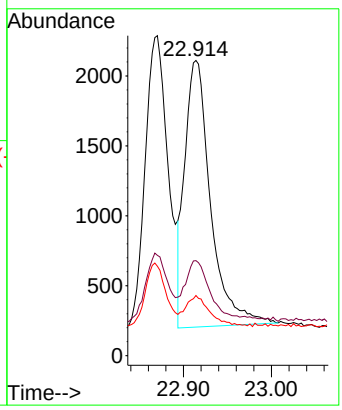


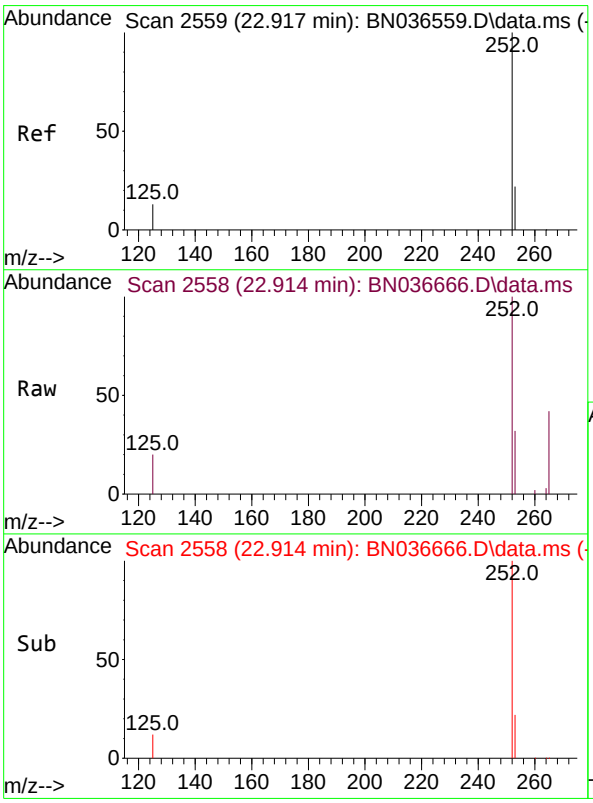
#37
Benzo(b)fluoranthene
Concen: 0.445 ng
RT: 22.914 min Scan# 2
Delta R.T. 0.041 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 3889

Ion	Ratio	Lower	Upper
252	100		
253	32.2	23.9	35.9
125	20.4	17.4	26.2

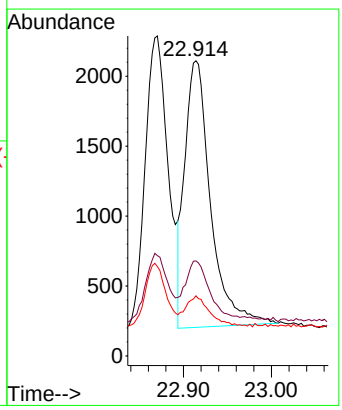


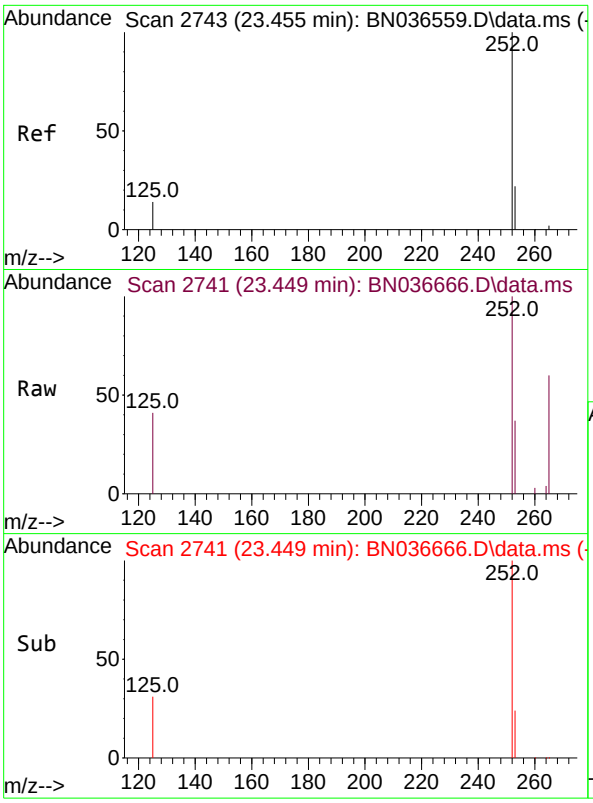


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.914 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:252 Resp: 3889

Ion	Ratio	Lower	Upper
252	100		
253	32.2	24.6	36.8
125	20.4	17.8	26.8



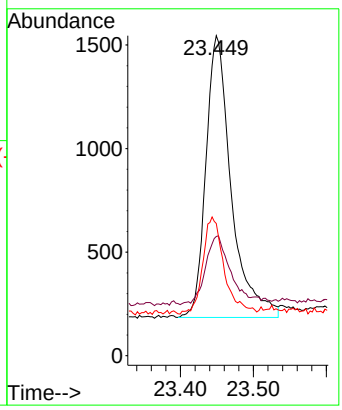


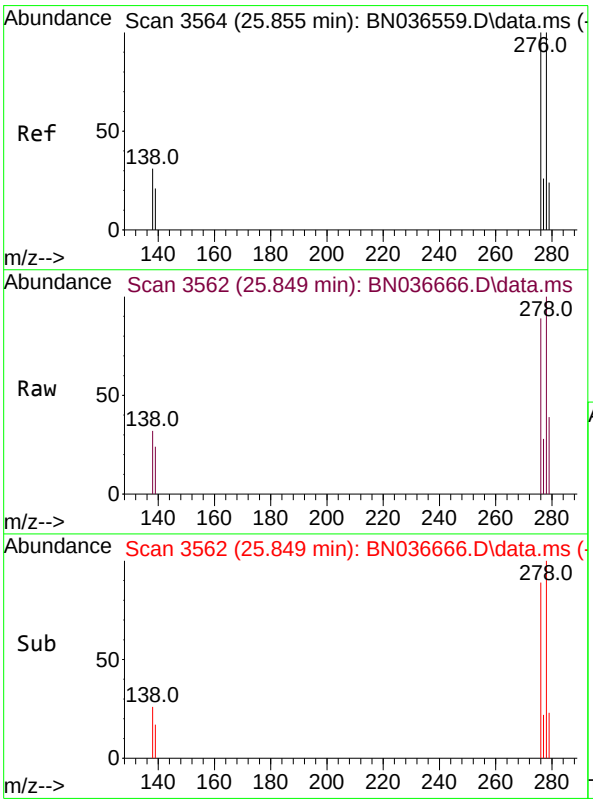
#39
Benzo(a)pyrene
Concen: 0.446 ng
RT: 23.449 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 3280

Ion	Ratio	Lower	Upper
252	100		
253	37.3	27.8	41.8
125	41.3	22.7	34.1#

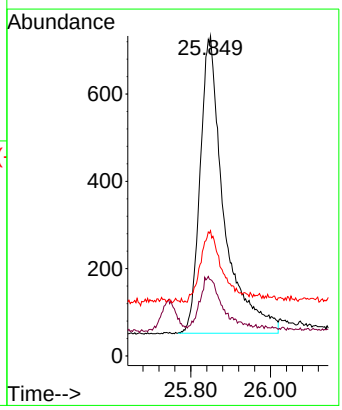


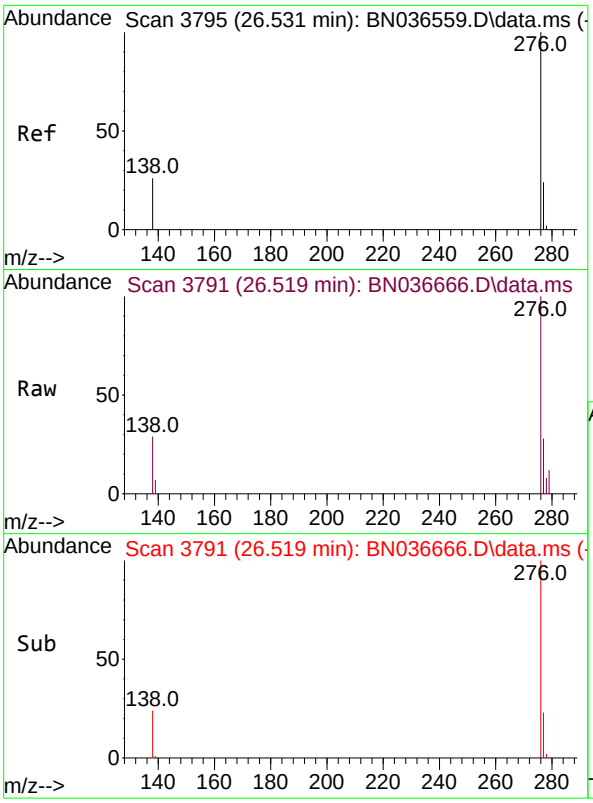


#40
Dibenzo(a,h)anthracene
Concen: 0.419 ng
RT: 25.849 min Scan# 3562
Delta R.T. -0.006 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Tgt Ion:278 Resp: 2826

Ion	Ratio	Lower	Upper
278	100		
139	23.9	20.8	31.2
279	39.2	28.8	43.2



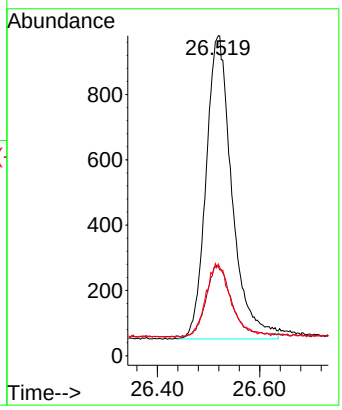


#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 26.519 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN036666.D
Acq: 17 Mar 2025 19:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 3263

Ion	Ratio	Lower	Upper
276	100		
277	27.9	22.2	33.4
138	28.7	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:46 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

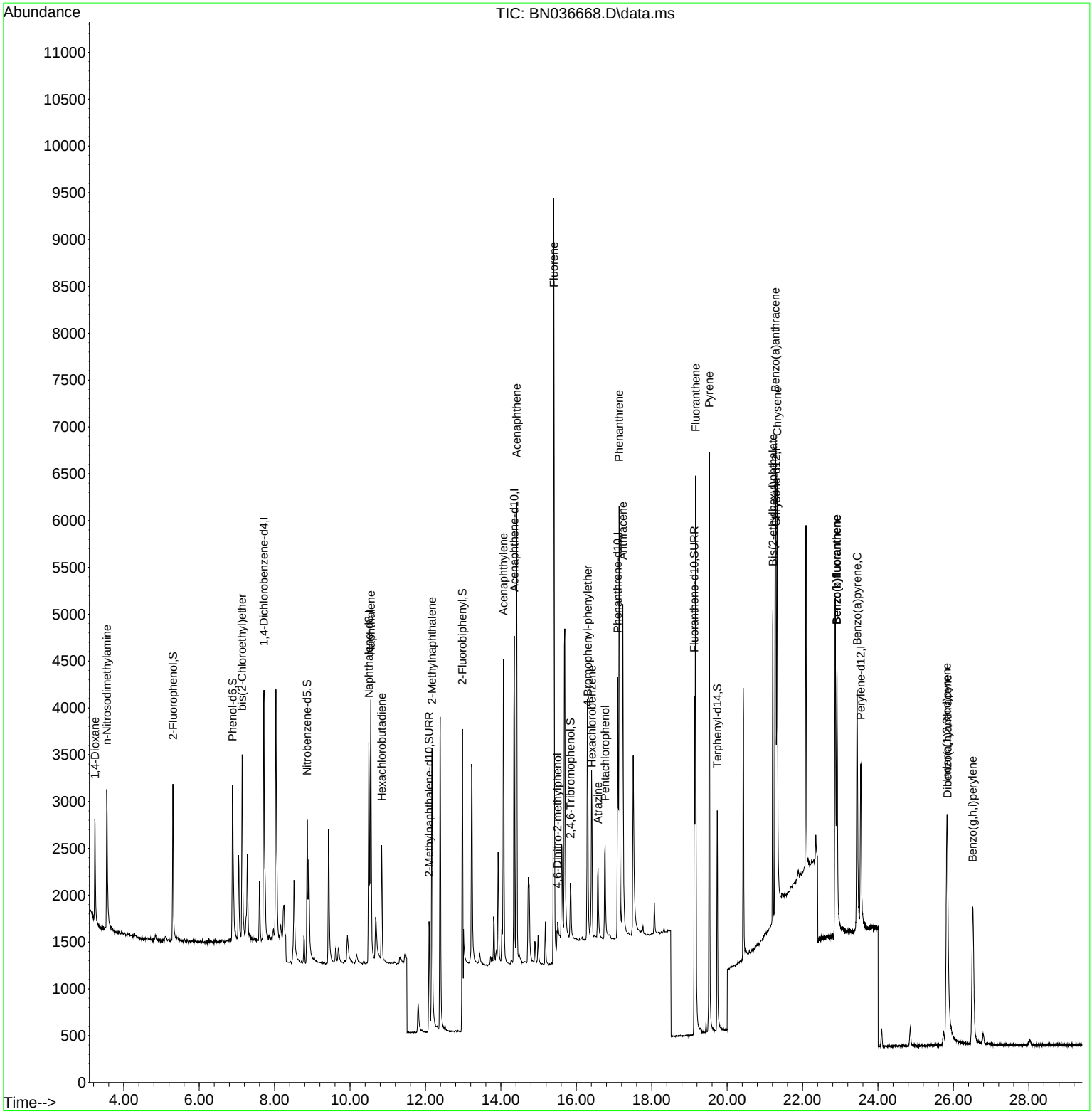
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	1326	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	3375	0.400	ng		-0.01
13) Acenaphthene-d10	14.356	164	1969	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	3924	0.400	ng		-0.01
29) Chrysene-d12	21.295	240	2929	0.400	ng		0.00
35) Perylene-d12	23.543	264	2659	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.305	112	1236	0.400	ng		0.00
5) Phenol-d6	6.887	99	1530	0.401	ng		-0.01
8) Nitrobenzene-d5	8.865	82	1438	0.392	ng		-0.01
11) 2-Methylnaphthalene-d10	12.096	152	2025	0.403	ng		-0.02
14) 2,4,6-Tribromophenol	15.845	330	378	0.423	ng		-0.01
15) 2-Fluorobiphenyl	12.978	172	4741	0.414	ng		0.00
27) Fluoranthene-d10	19.132	212	4416	0.439	ng		0.00
31) Terphenyl-d14	19.740	244	2835	0.404	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	647	0.440	ng		92
3) n-Nitrosodimethylamine	3.550	42	1474	0.495	ng	#	85
6) bis(2-Chloroethyl)ether	7.139	93	1549	0.393	ng		98
9) Naphthalene	10.552	128	4011	0.404	ng		98
10) Hexachlorobutadiene	10.840	225	968	0.414	ng	#	97
12) 2-Methylnaphthalene	12.172	142	2540	0.402	ng		95
16) Acenaphthylene	14.067	152	3862	0.416	ng		99
17) Acenaphthene	14.420	154	2516	0.414	ng		98
18) Fluorene	15.403	166	3484	0.423	ng		100
20) 4,6-Dinitro-2-methylph...	15.499	198	313	0.458	ng		86
21) 4-Bromophenyl-phenylether	16.305	248	1052	0.428	ng	#	77
22) Hexachlorobenzene	16.416	284	1271	0.428	ng		94
23) Atrazine	16.578	200	865	0.439	ng		95
24) Pentachlorophenol	16.764	266	643	0.475	ng		98
25) Phenanthrene	17.136	178	5152	0.438	ng		100
26) Anthracene	17.235	178	4534	0.427	ng		99
28) Fluoranthene	19.164	202	5895	0.446	ng		99
30) Pyrene	19.527	202	6066	0.424	ng		100
32) Benzo(a)anthracene	21.277	228	4223	0.415	ng		99
33) Chrysene	21.331	228	4938	0.444	ng		99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3370	0.465	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.826	276	3878	0.404	ng	#	93
37) Benzo(b)fluoranthene	22.911	252	4385	0.453	ng		96
38) Benzo(k)fluoranthene	22.911	252	4385	0.432	ng		96
39) Benzo(a)pyrene	23.446	252	3730	0.458	ng	#	91
40) Dibenzo(a,h)anthracene	25.844	278	2967	0.397	ng		96
41) Benzo(g,h,i)perylene	26.513	276	3542	0.414	ng		99

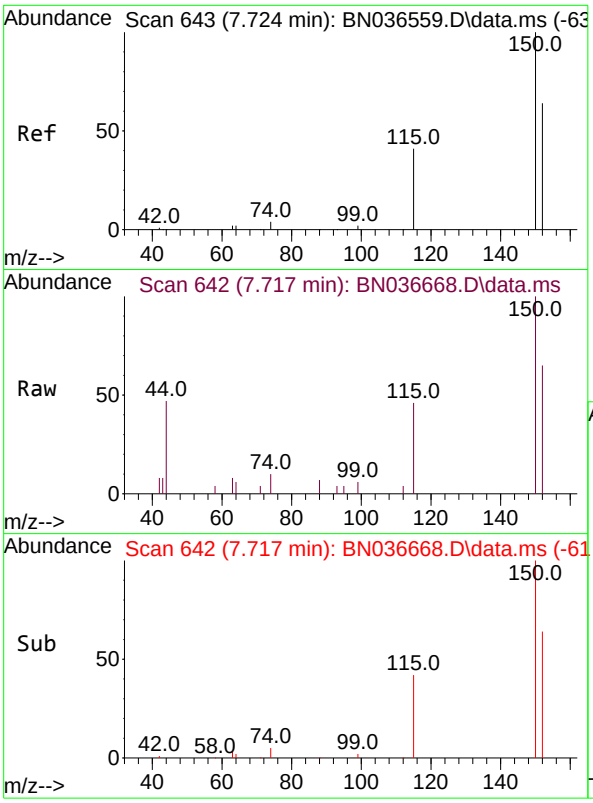
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036668.D
Acq On : 17 Mar 2025 21:02
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 18 00:55:46 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



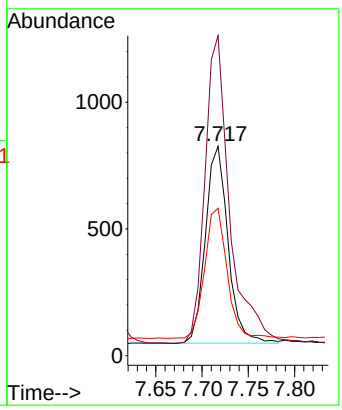


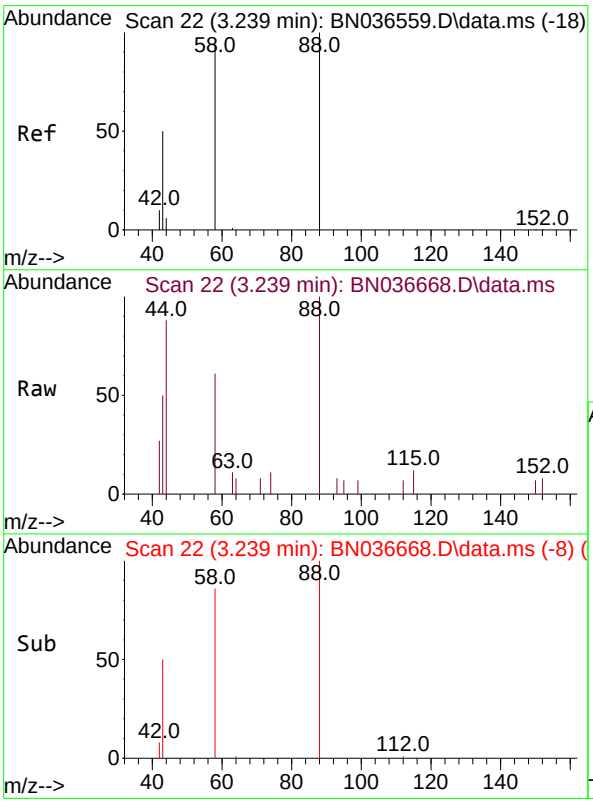
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1326

Ion	Ratio	Lower	Upper
152	100		
150	152.9	123.7	185.5
115	70.5	54.3	81.5

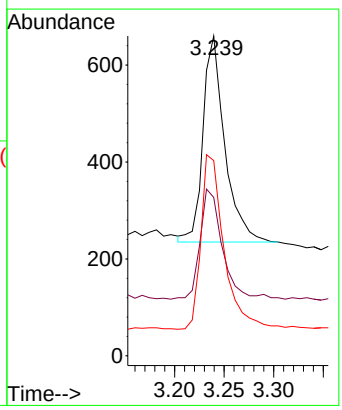


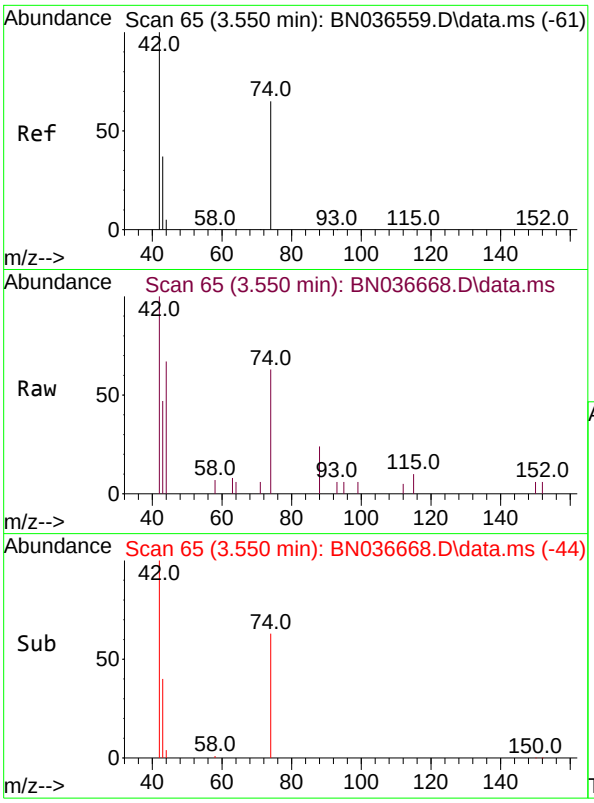


#2
1,4-Dioxane
Concen: 0.440 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 88 Resp: 647

Ion	Ratio	Lower	Upper
88	100		
43	54.7	37.8	56.8
58	89.8	67.4	101.2



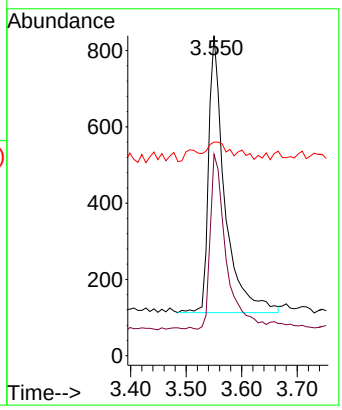


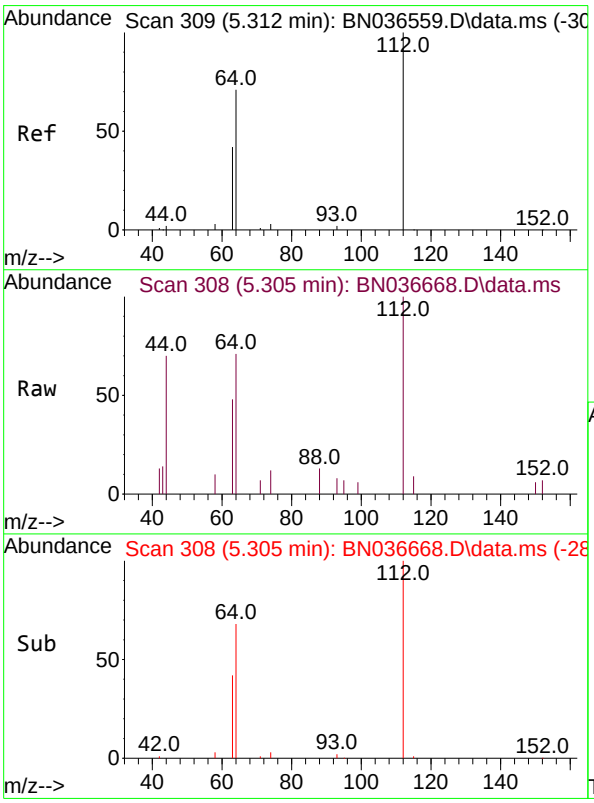
#3
n-Nitrosodimethylamine
Concen: 0.495 ng
RT: 3.550 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1474

Ion	Ratio	Lower	Upper
42	100		
74	61.7	60.6	90.8
44	5.8	6.3	9.5#

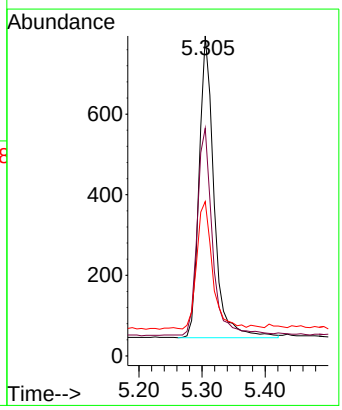


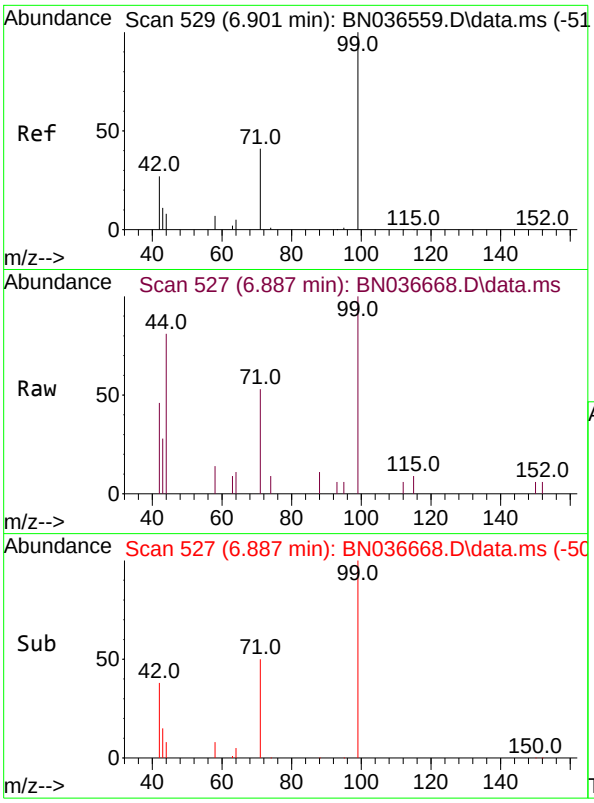


#4
2-Fluorophenol
Concen: 0.400 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.007 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:112 Resp: 1236

Ion	Ratio	Lower	Upper
112	100		
64	69.2	53.1	79.7
63	43.9	31.8	47.8



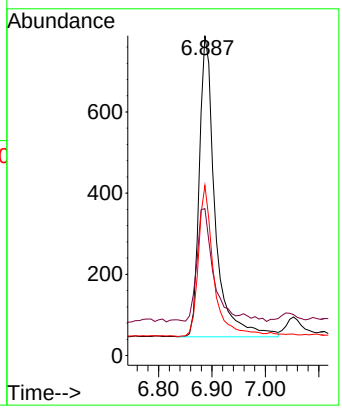


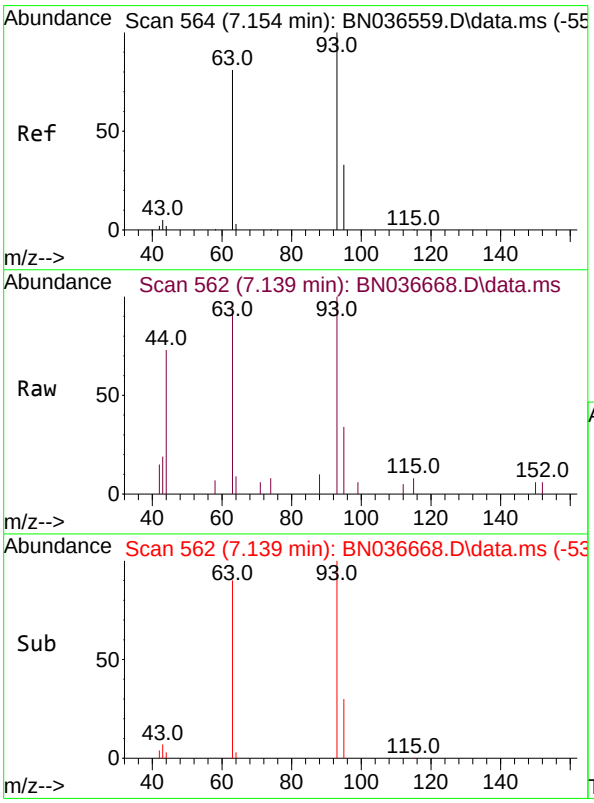
#5
Phenol-d6
Concen: 0.401 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1530

Ion	Ratio	Lower	Upper
99	100		
42	37.6	26.5	39.7
71	48.5	34.1	51.1

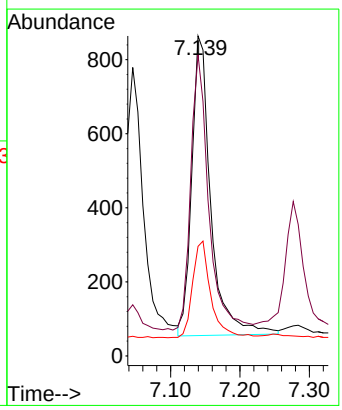


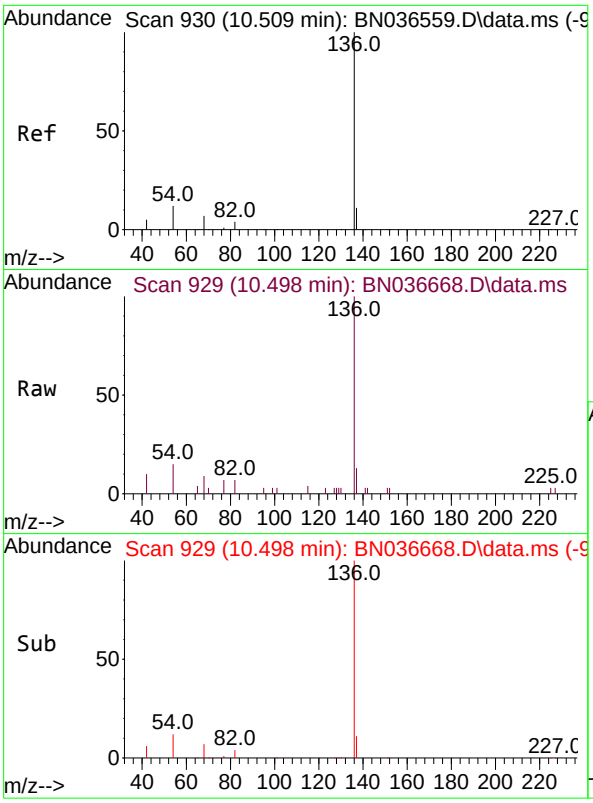


#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 93 Resp: 1549

Ion	Ratio	Lower	Upper
93	100		
63	85.9	67.7	101.5
95	31.0	25.6	38.4



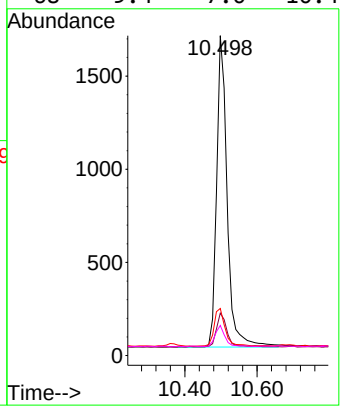


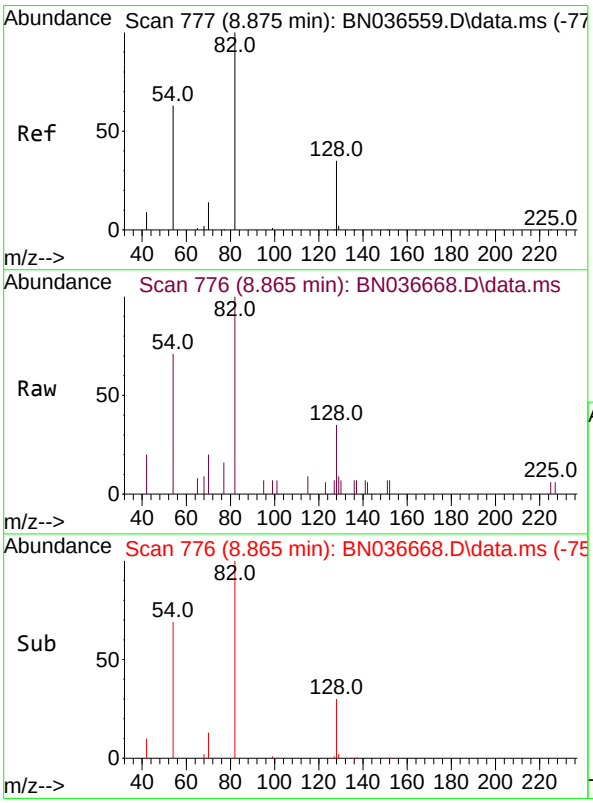
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 3375

Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.3	15.5
54	14.7	11.5	17.3
68	9.4	7.0	10.4

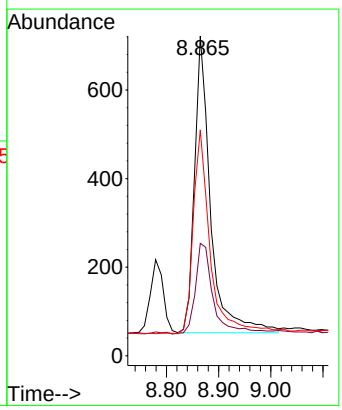


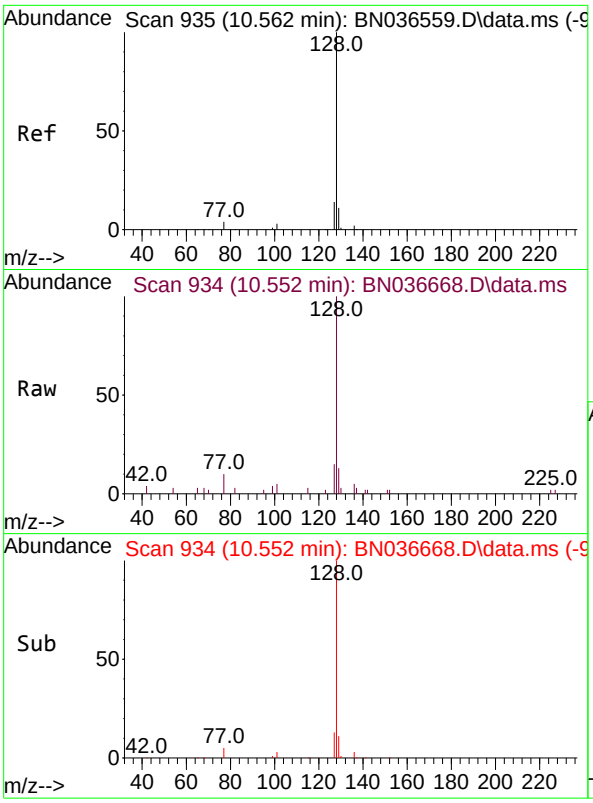


#8
Nitrobenzene-d5
Concen: 0.392 ng
RT: 8.865 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion: 82 Resp: 1438

Ion	Ratio	Lower	Upper
82	100		
128	35.2	30.6	45.8
54	70.6	52.2	78.4



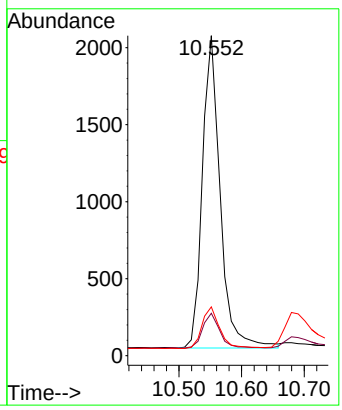


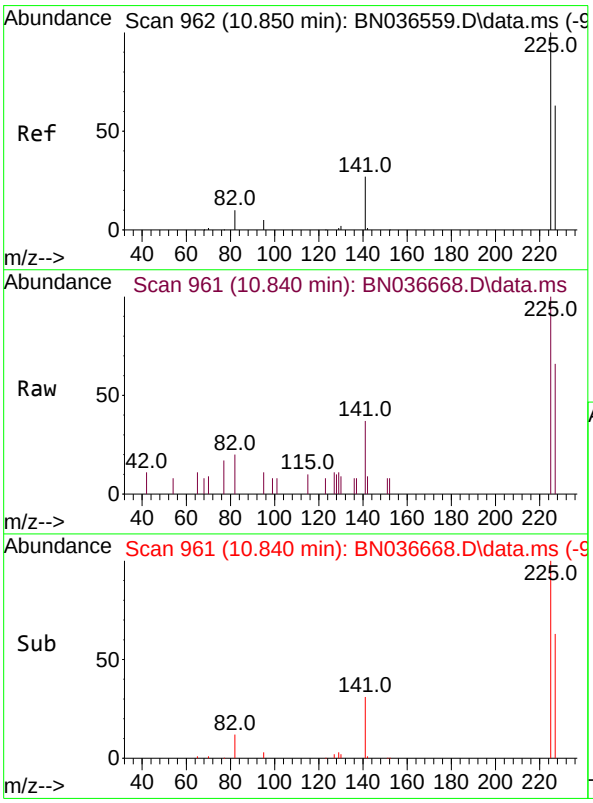
#9
Naphthalene
Concen: 0.404 ng
RT: 10.552 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4011

Ion	Ratio	Lower	Upper
128	100		
129	13.3	9.8	14.6
127	15.3	11.8	17.8

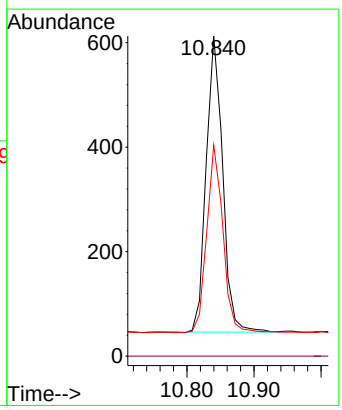


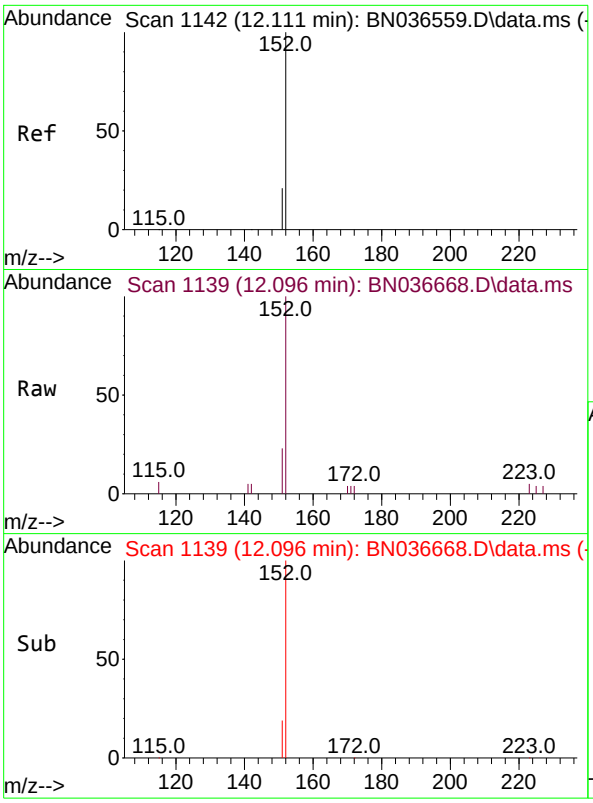


#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:225 Resp: 968

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.7	51.8	77.8



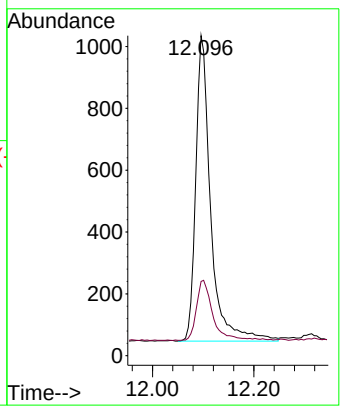


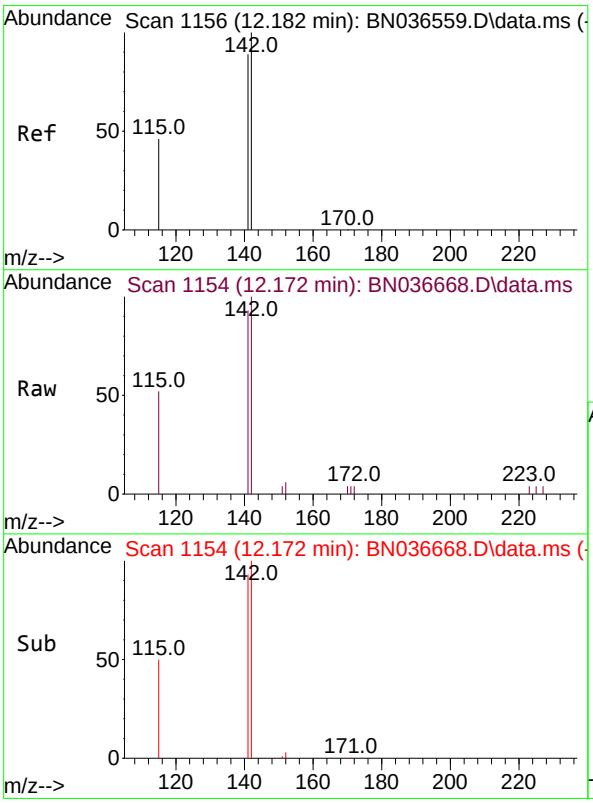
#11
2-Methylnaphthalene-d10
Concen: 0.403 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2025

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.0	25.6

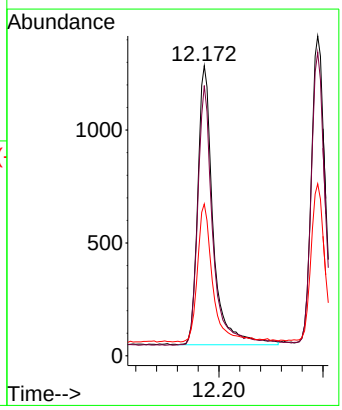


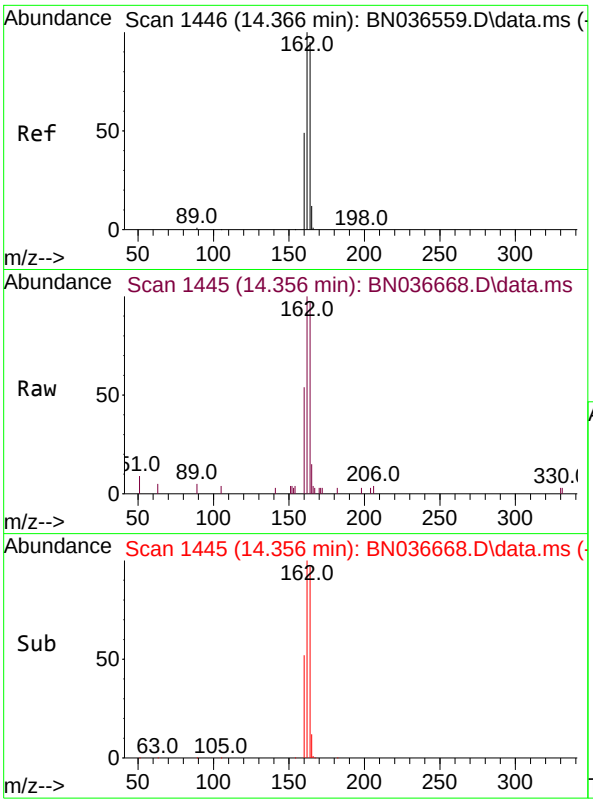


#12
2-Methylnaphthalene
Concen: 0.402 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:142 Resp: 2540

Ion	Ratio	Lower	Upper
142	100		
141	93.2	71.7	107.5
115	52.4	38.3	57.5



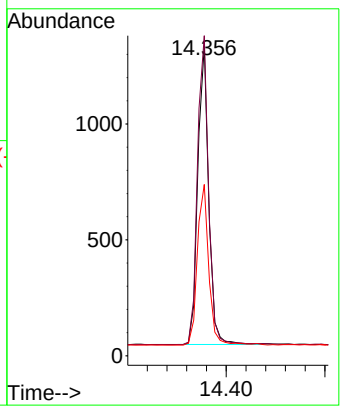


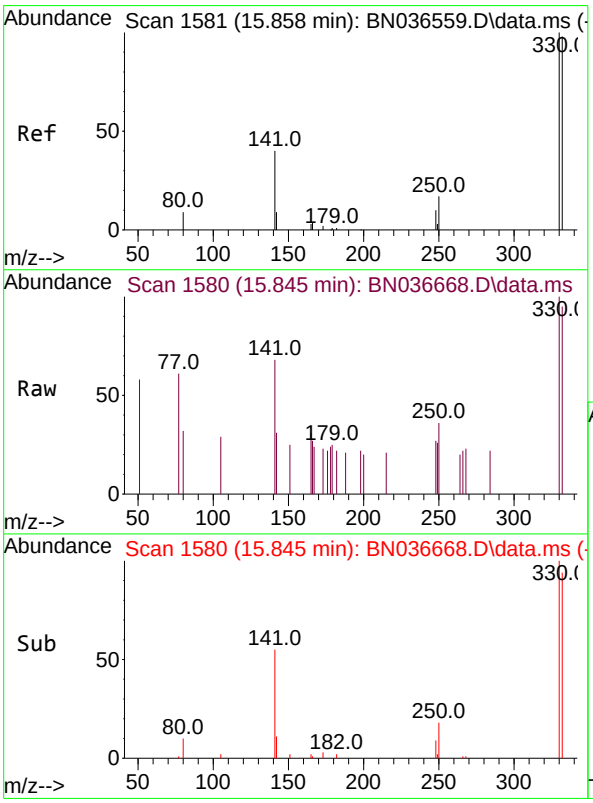
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 1969

Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.2	126.2
160	55.3	42.2	63.2

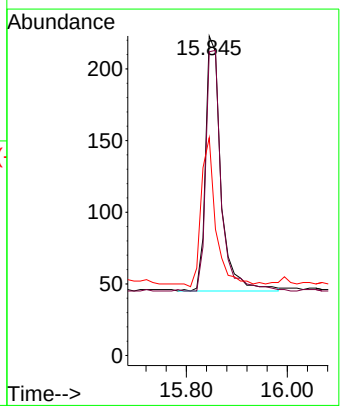


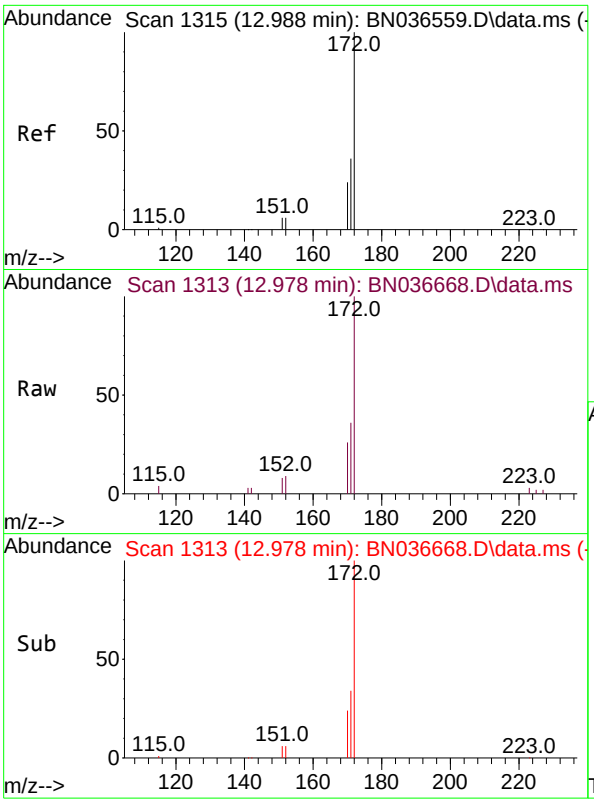


#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.845 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:330 Resp: 378

Ion	Ratio	Lower	Upper
330	100		
332	94.7	75.2	112.8
141	52.1	43.4	65.2



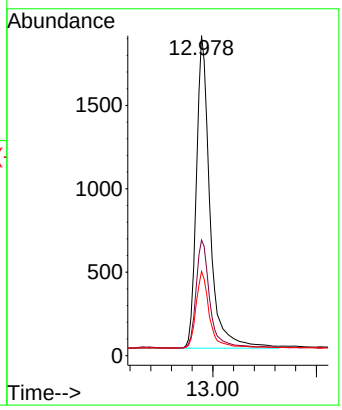


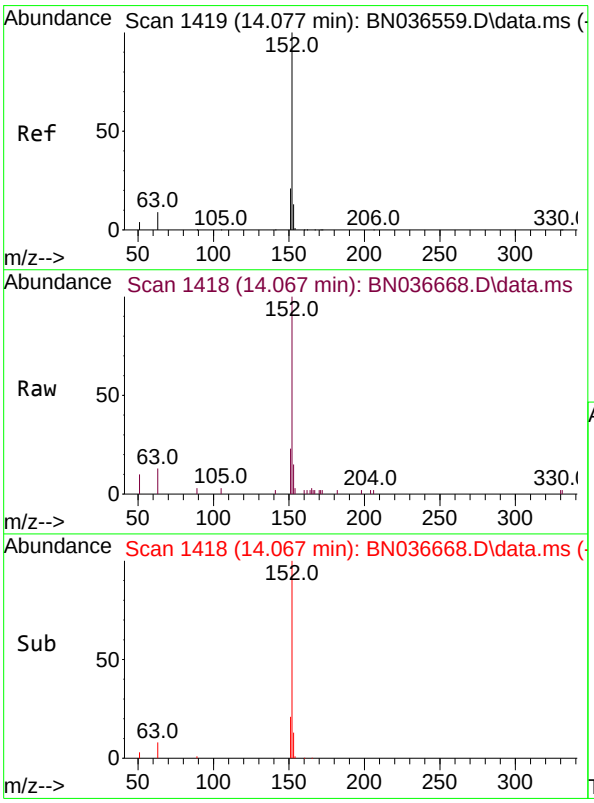
#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 4741

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.5	44.3
170	26.3	20.2	30.4

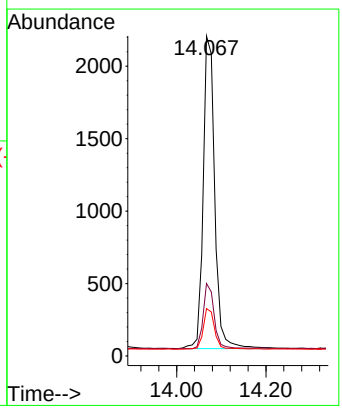


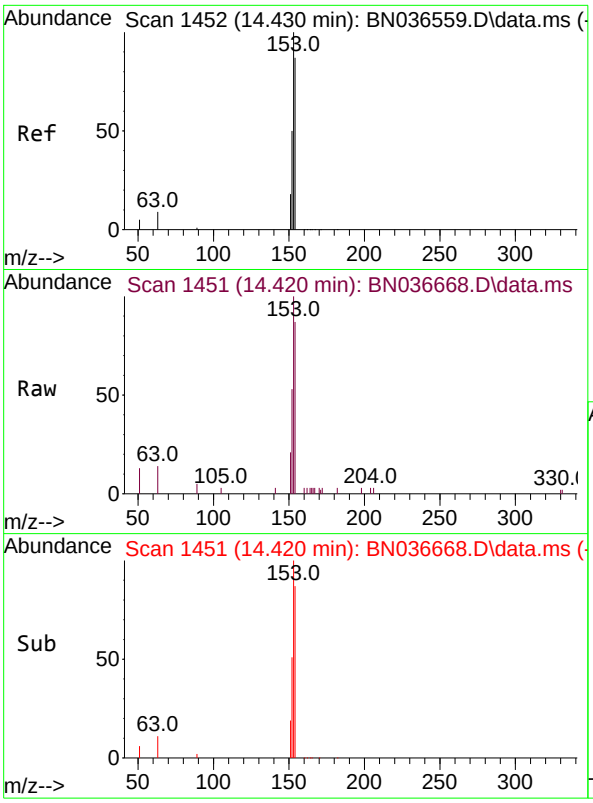


#16
Acenaphthylene
Concen: 0.416 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:152 Resp: 3862

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	12.8	10.6	15.8



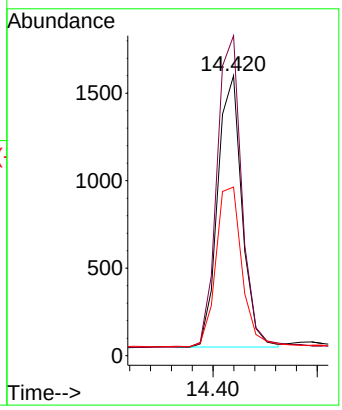


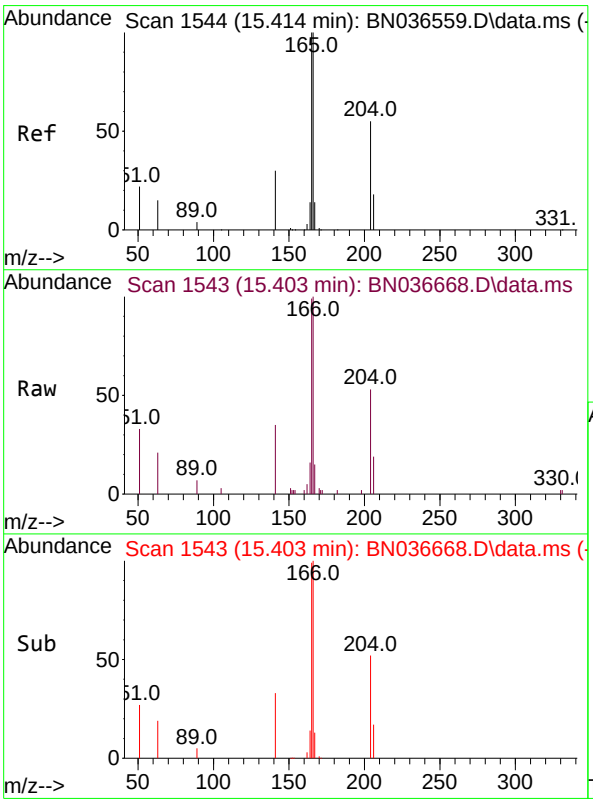
#17
Acenaphthene
Concen: 0.414 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 2516

Ion	Ratio	Lower	Upper
154	100		
153	119.2	94.1	141.1
152	65.2	49.8	74.6

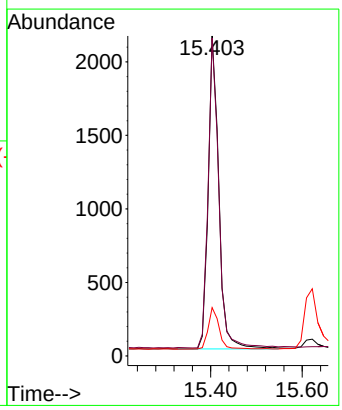


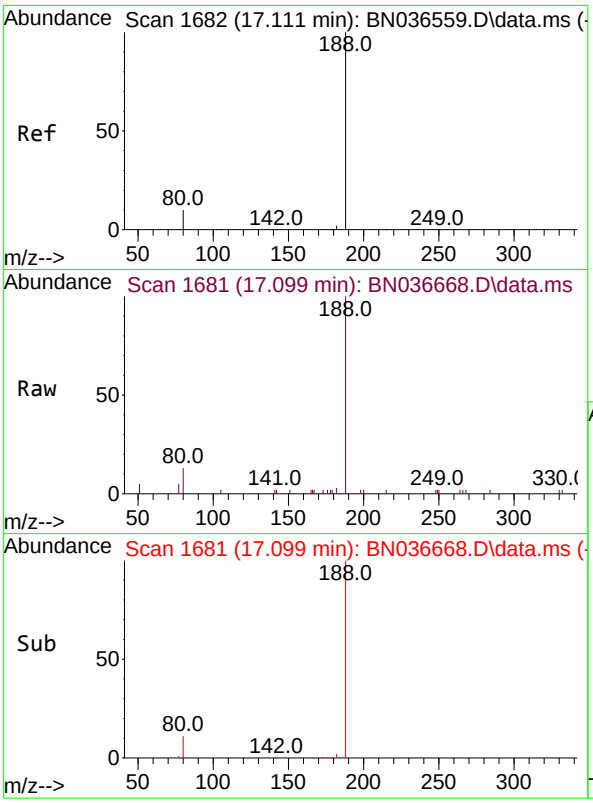


#18
Fluorene
Concen: 0.423 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:166 Resp: 3484

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.8
167	13.3	10.6	15.8



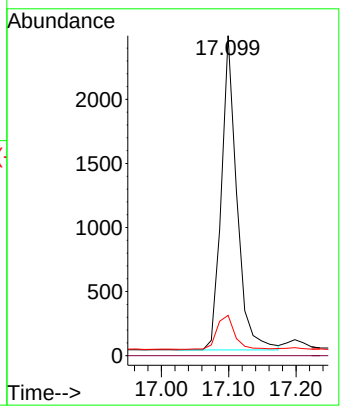


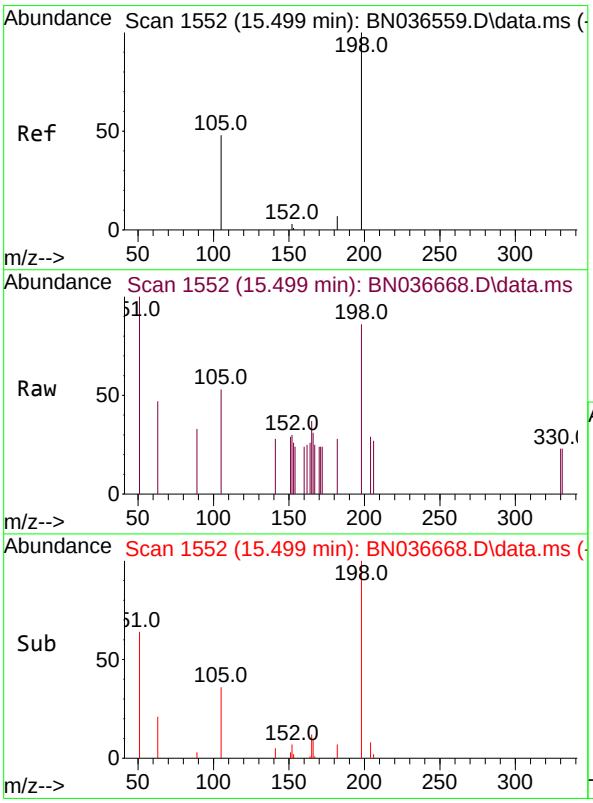
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 3924

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

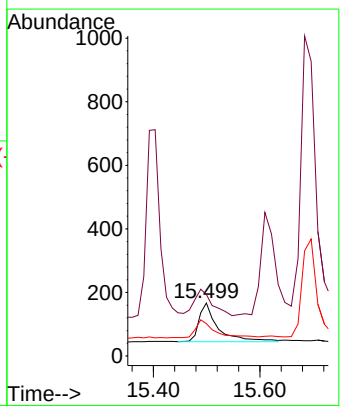


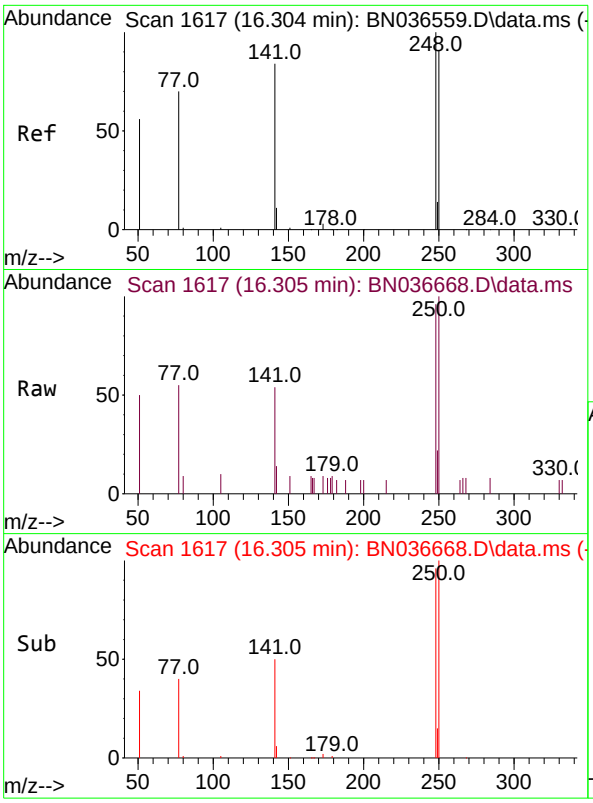


#20
4,6-Dinitro-2-methylphenol
Concen: 0.458 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:198 Resp: 313

Ion	Ratio	Lower	Upper
198	100		
51	116.2	107.9	161.9
105	61.1	56.2	84.2



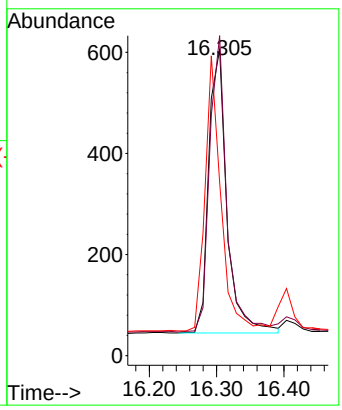


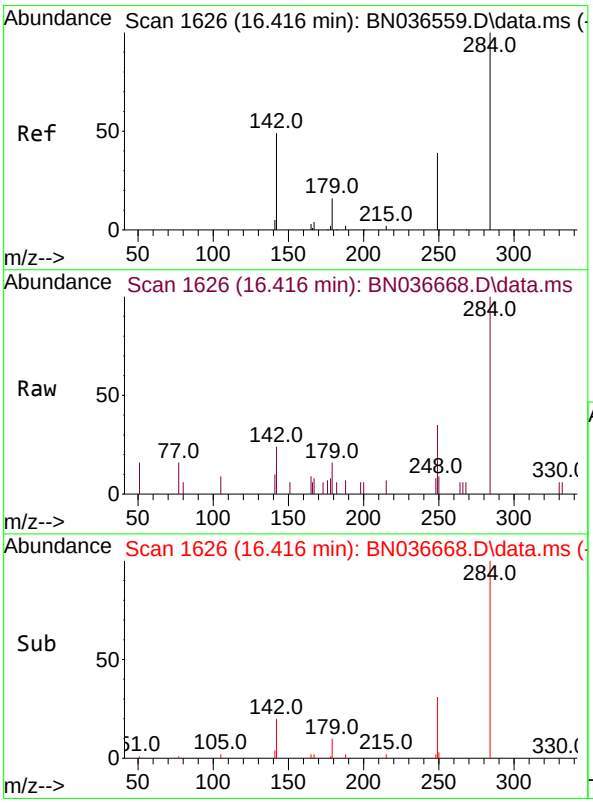
#21
4-Bromophenyl-phenylether
Concen: 0.428 ng
RT: 16.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1052

Ion	Ratio	Lower	Upper
248	100		
250	104.5	73.0	109.6
141	56.6	68.6	103.0#

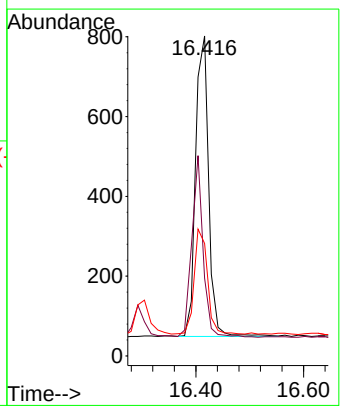


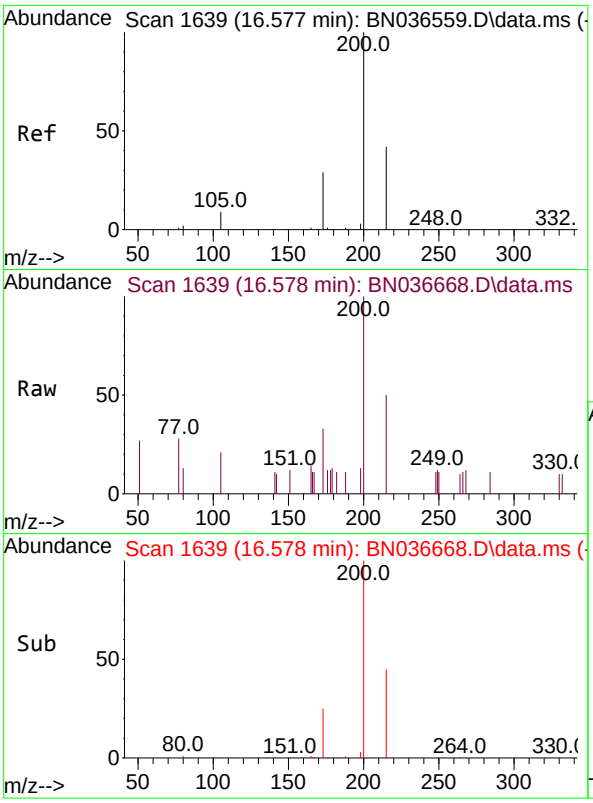


#22
Hexachlorobenzene
Concen: 0.428 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:284 Resp: 1271

Ion	Ratio	Lower	Upper
284	100		
142	52.7	37.0	55.4
249	35.7	28.1	42.1



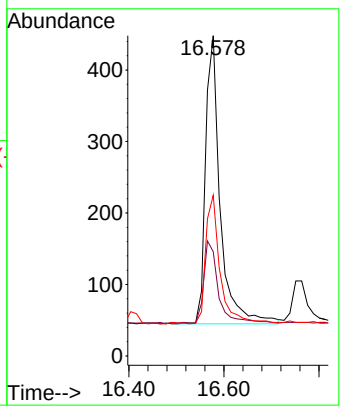


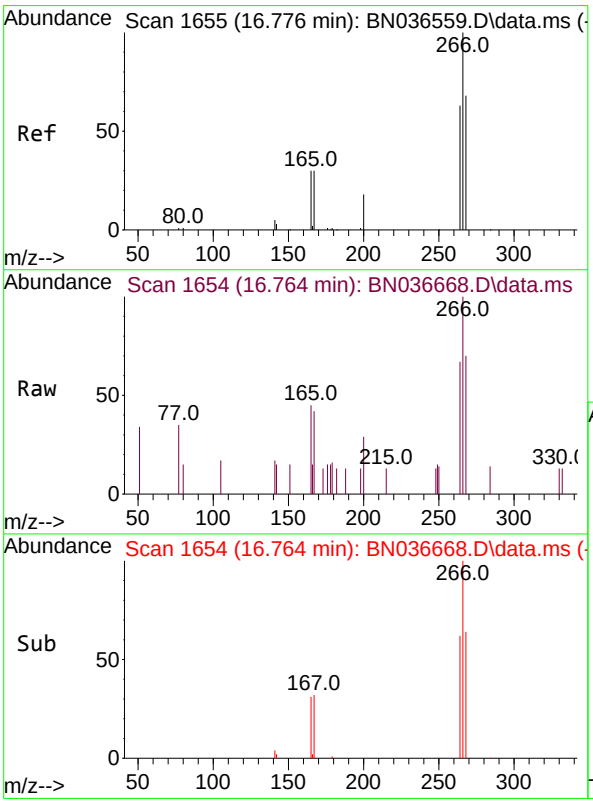
#23
Atrazine
Concen: 0.439 ng
RT: 16.578 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 865

Ion	Ratio	Lower	Upper
200	100		
173	32.6	27.3	40.9
215	50.2	36.8	55.2

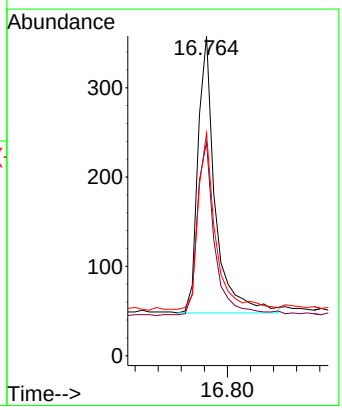


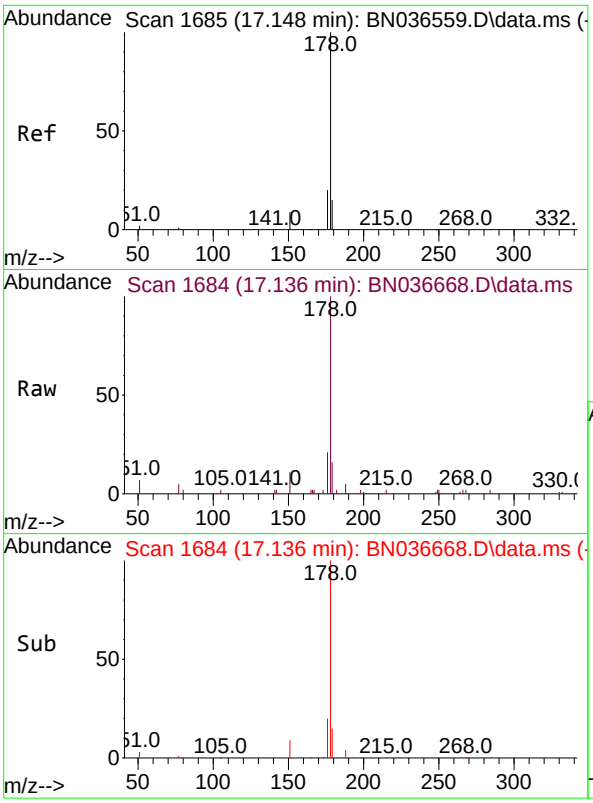


#24
Pentachlorophenol
Concen: 0.475 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:266 Resp: 643

Ion	Ratio	Lower	Upper
266	100		
264	64.7	49.6	74.4
268	63.9	50.9	76.3



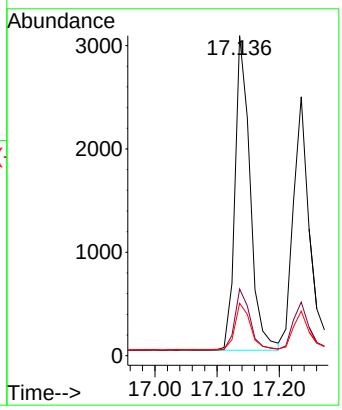


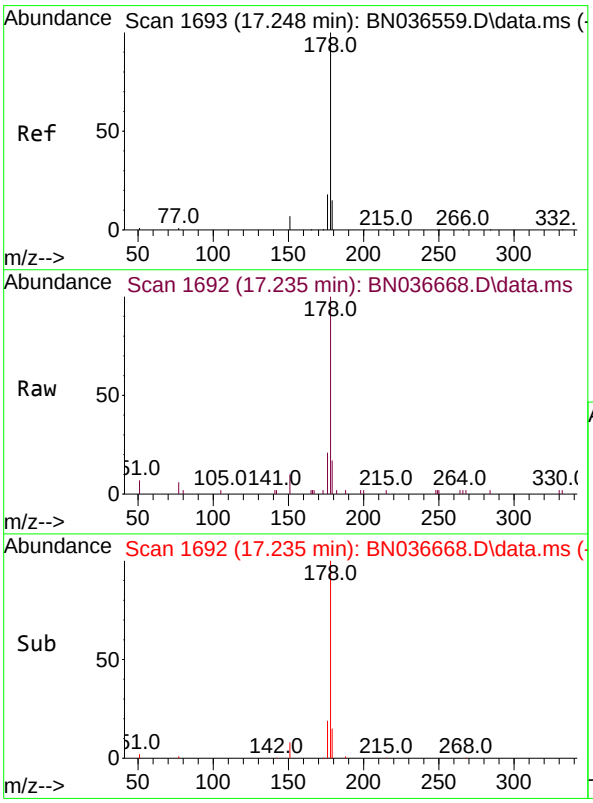
#25
Phenanthrene
Concen: 0.438 ng
RT: 17.136 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 5152

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.0	12.2	18.4

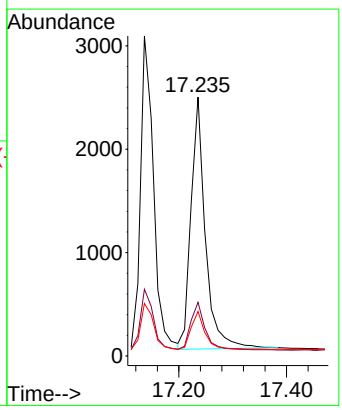


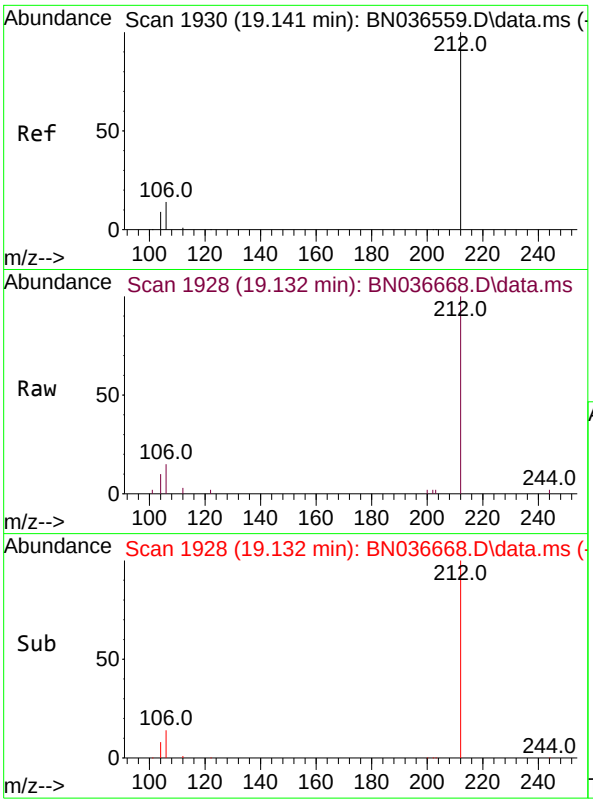


#26
Anthracene
Concen: 0.427 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:178 Resp: 4534

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	14.9	12.6	18.8



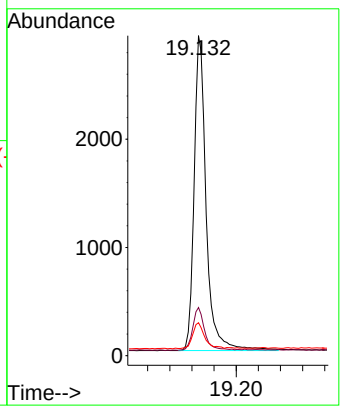


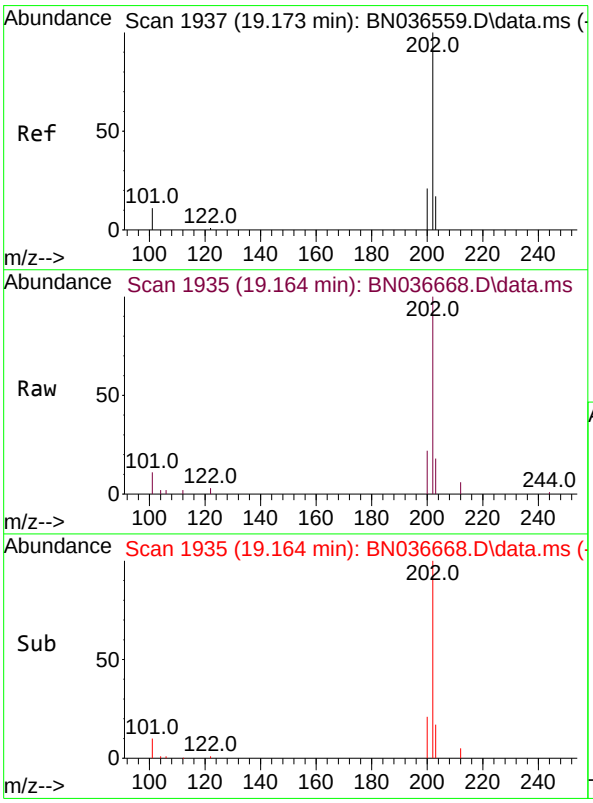
#27
Fluoranthene-d10
Concen: 0.439 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 4416

Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.8	17.6
104	8.0	7.3	10.9

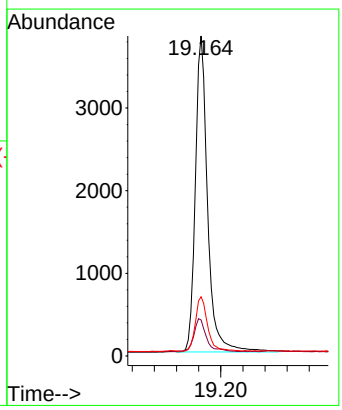


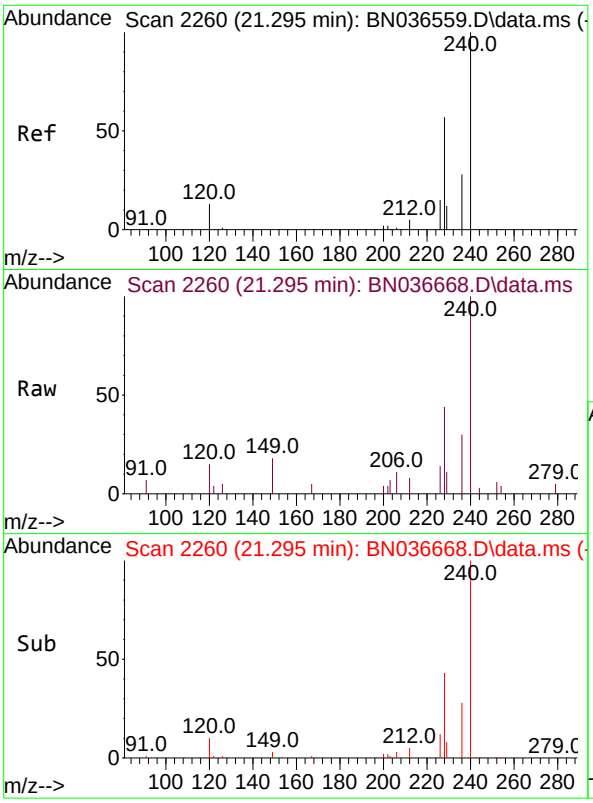


#28
Fluoranthene
Concen: 0.446 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:202 Resp: 5895

Ion	Ratio	Lower	Upper
202	100		
101	10.6	9.4	14.0
203	16.9	13.5	20.3



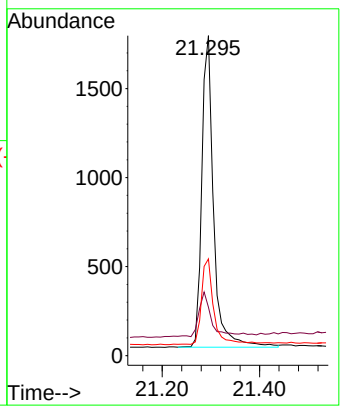


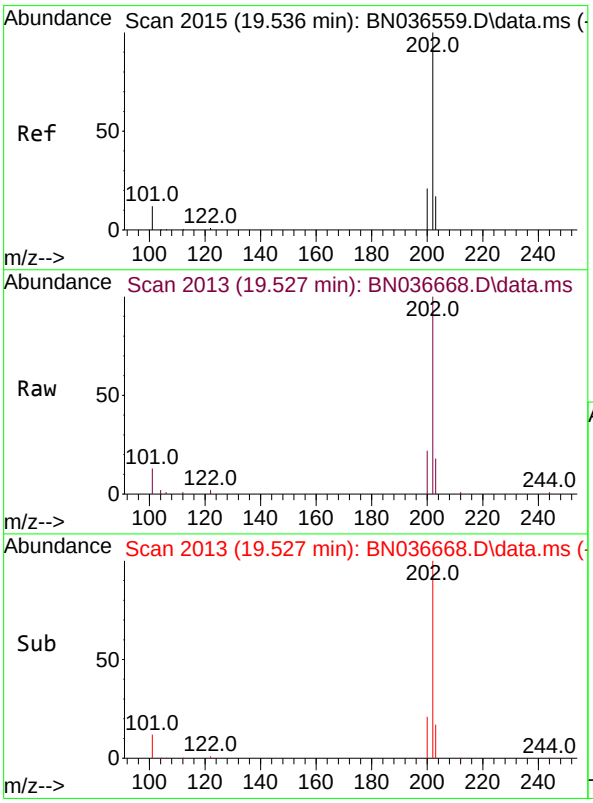
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 2929

Ion	Ratio	Lower	Upper
240	100		
120	15.1	14.6	22.0
236	30.3	24.1	36.1

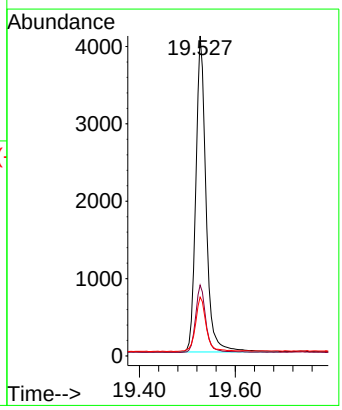


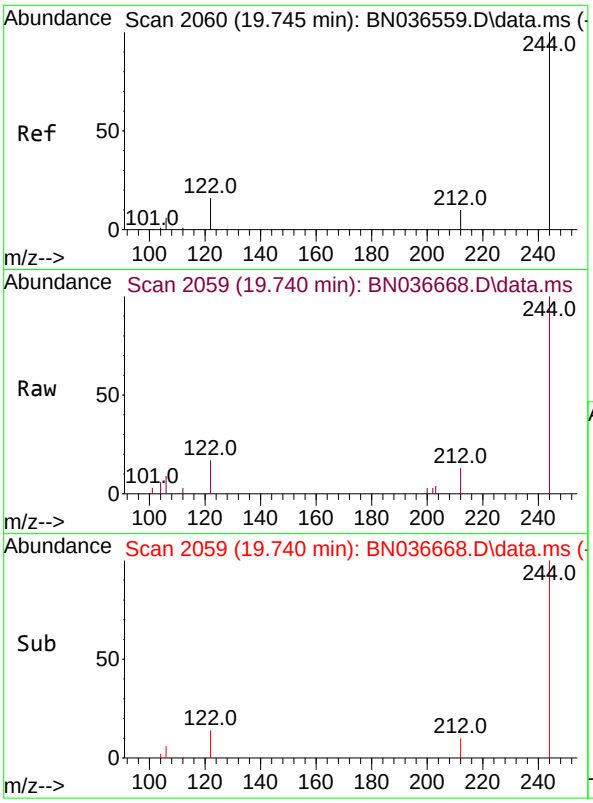


#30
Pyrene
Concen: 0.424 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:202 Resp: 6066

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.9	14.1	21.1



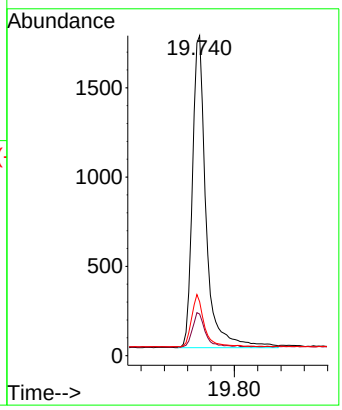


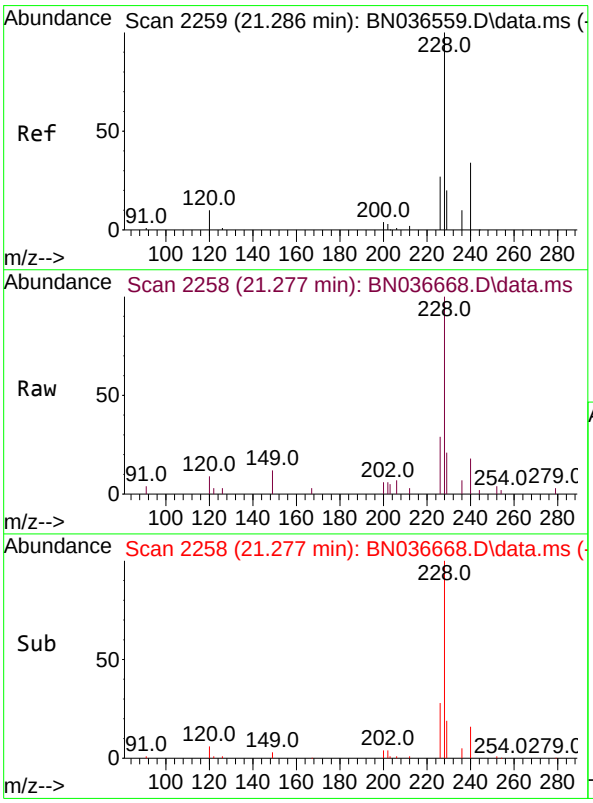
#31
Terphenyl-d14
Concen: 0.404 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 2835

Ion	Ratio	Lower	Upper
244	100		
212	13.0	9.6	14.4
122	16.9	13.9	20.9

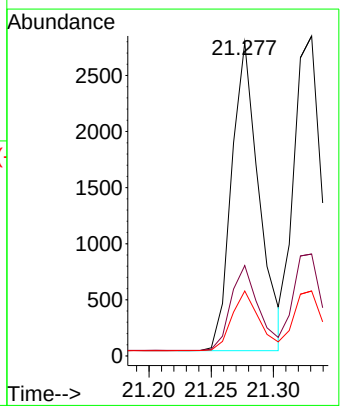


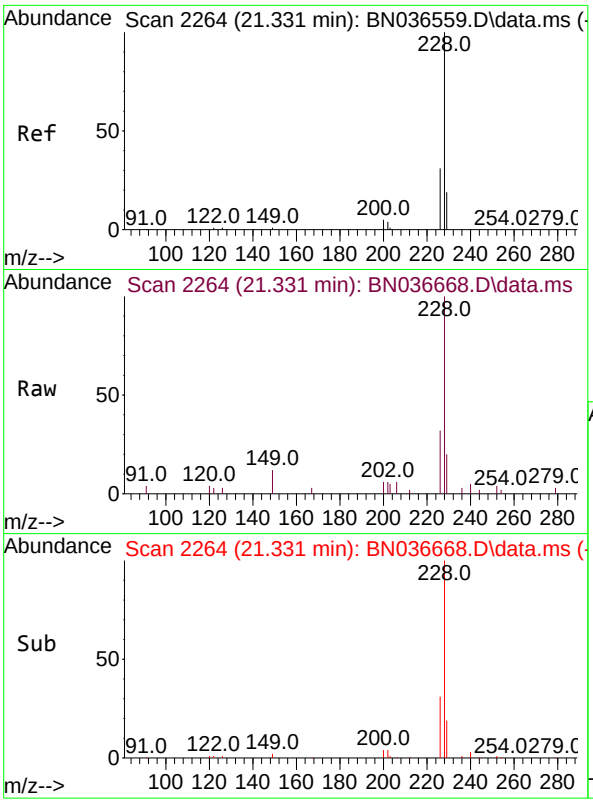


#32
Benzo(a)anthracene
Concen: 0.415 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:228 Resp: 4223

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.5	33.7
229	20.7	16.6	25.0



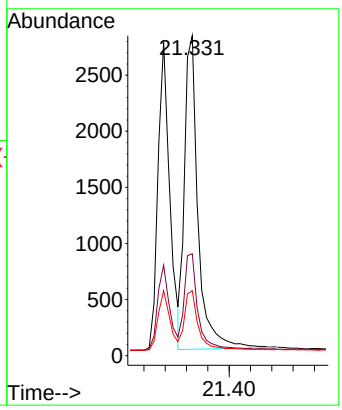


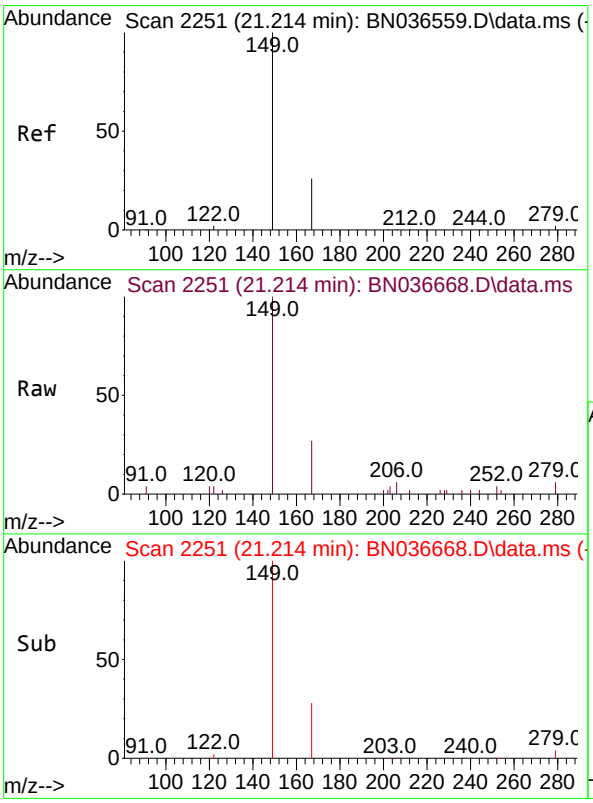
#33
Chrysene
Concen: 0.444 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 4938

Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.3	37.9
229	20.3	15.8	23.8

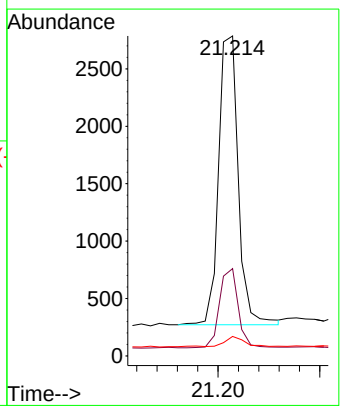


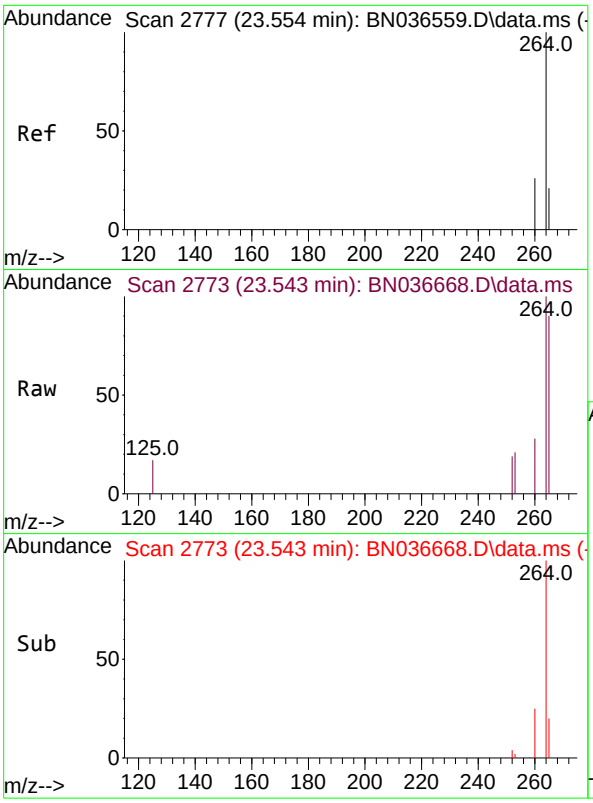


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.465 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:149 Resp: 3370

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	3.5	3.6	5.4#



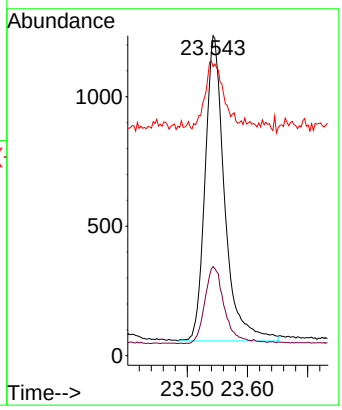


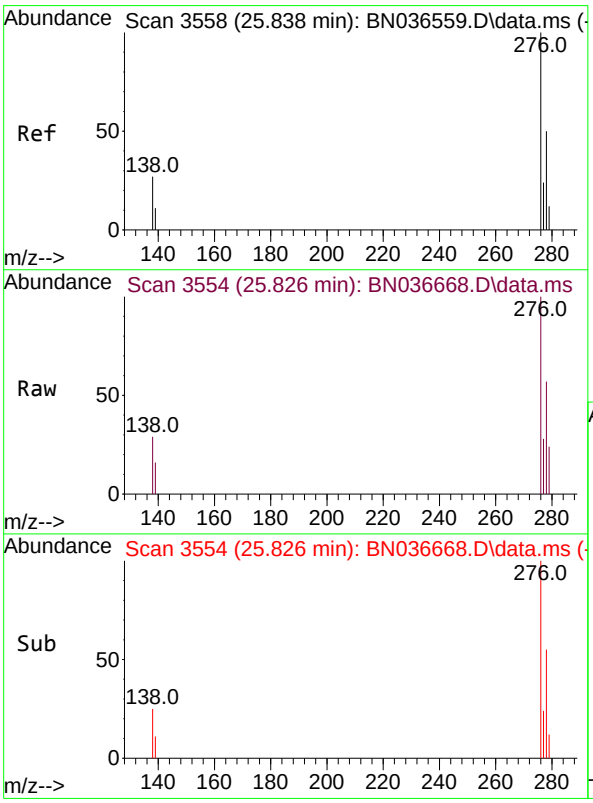
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 2659

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.6	33.8
265	90.4	88.1	132.1

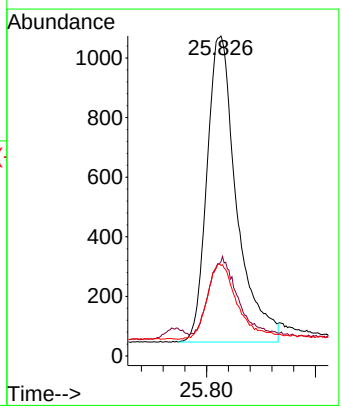


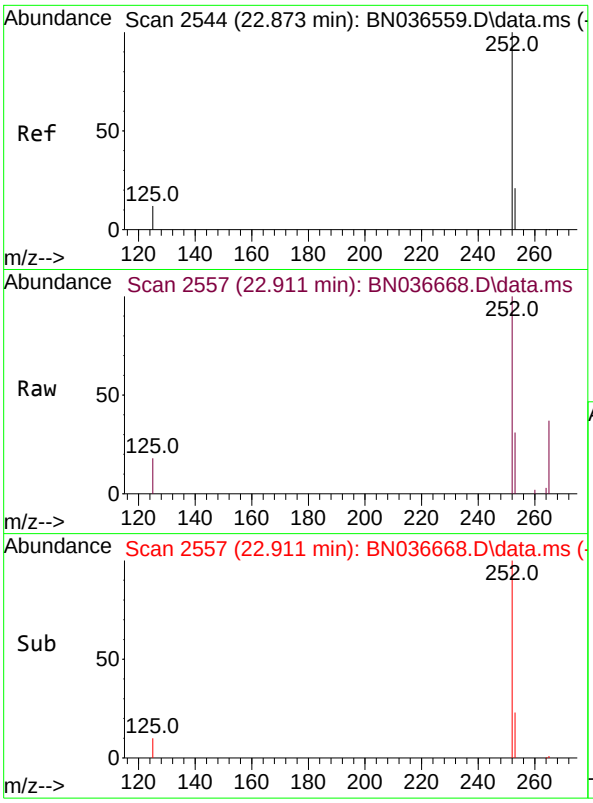


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:276 Resp: 3878

Ion	Ratio	Lower	Upper
276	100		
138	22.7	23.4	35.2#
277	25.7	20.0	30.0



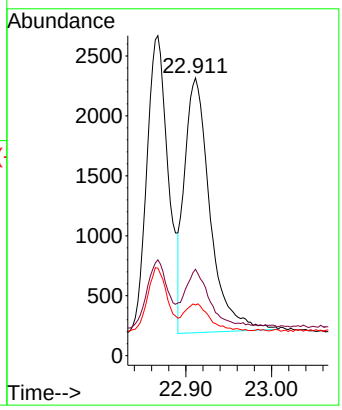


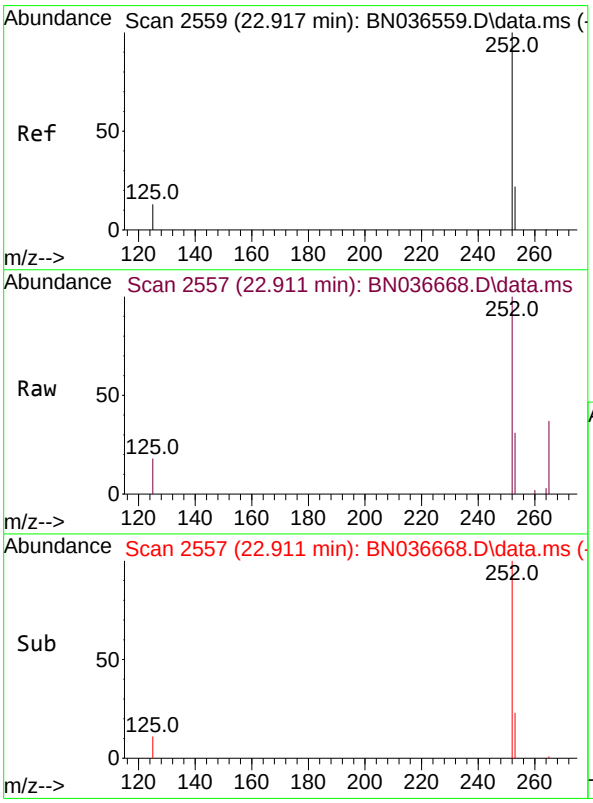
#37
Benzo(b)fluoranthene
Concen: 0.453 ng
RT: 22.911 min Scan# 2
Delta R.T. 0.038 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4385

Ion	Ratio	Lower	Upper
252	100		
253	31.1	23.9	35.9
125	18.3	17.4	26.2

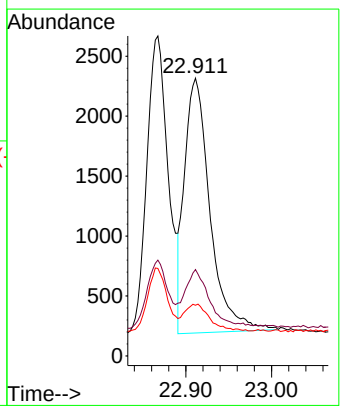


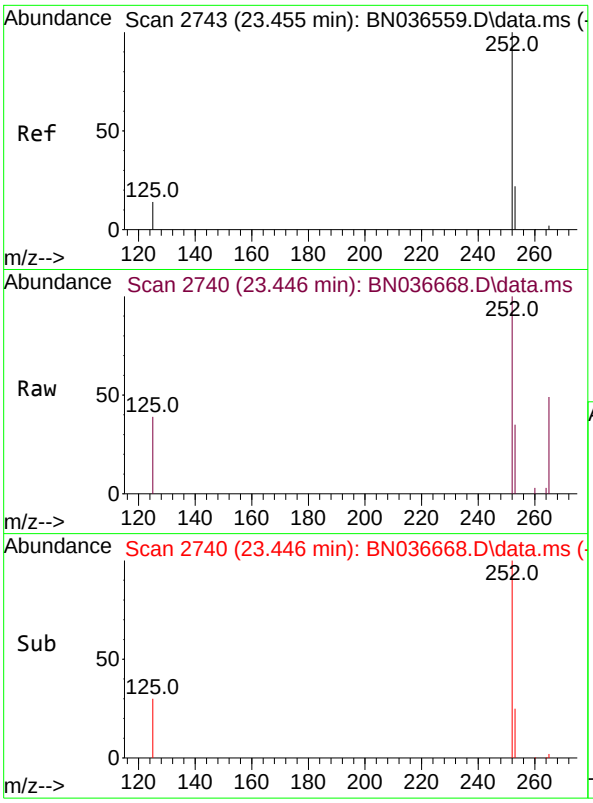


#38
Benzo(k)fluoranthene
Concen: 0.432 ng
RT: 22.911 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:252 Resp: 4385

Ion	Ratio	Lower	Upper
252	100		
253	31.1	24.6	36.8
125	18.3	17.8	26.8



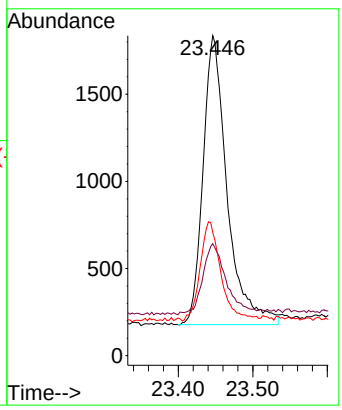


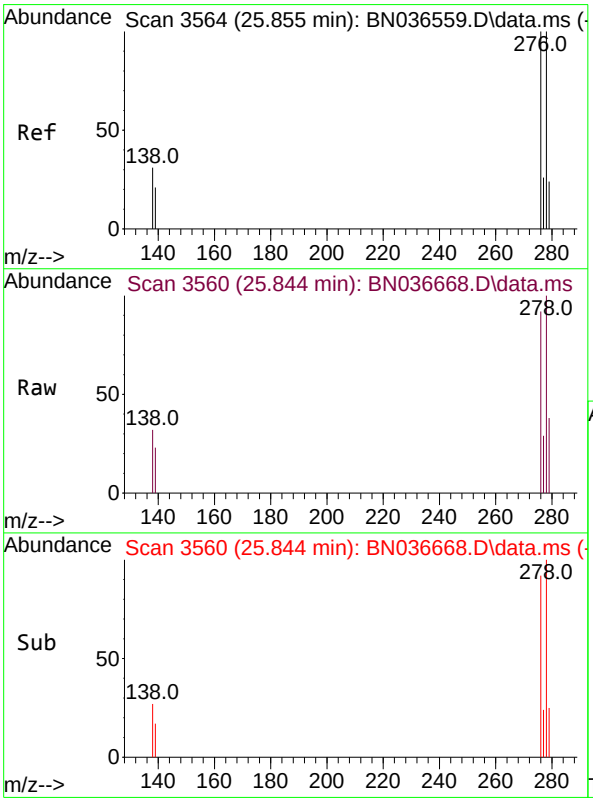
#39
Benzo(a)pyrene
Concen: 0.458 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 3730

Ion	Ratio	Lower	Upper
252	100		
253	35.0	27.8	41.8
125	38.5	22.7	34.1#

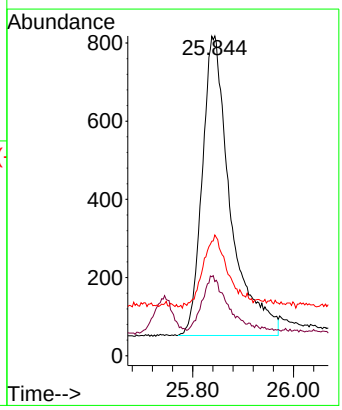


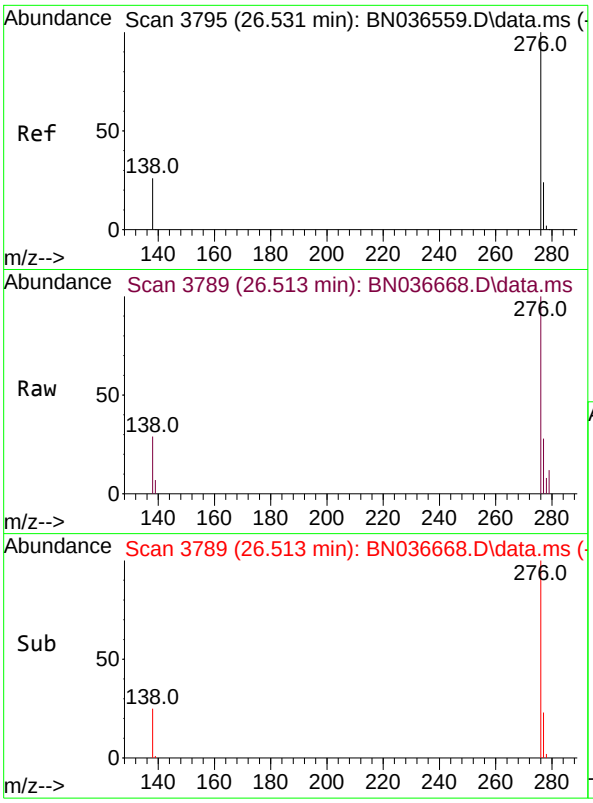


#40
Dibenzo(a,h)anthracene
Concen: 0.397 ng
RT: 25.844 min Scan# 3560
Delta R.T. -0.012 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Tgt Ion:278 Resp: 2967

Ion	Ratio	Lower	Upper
278	100		
139	23.2	20.8	31.2
279	37.8	28.8	43.2



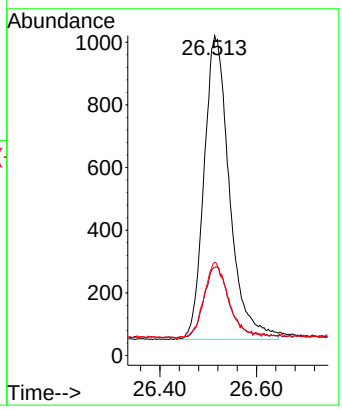


#41
Benzo(g,h,i)perylene
Concen: 0.414 ng
RT: 26.513 min Scan# 3
Delta R.T. -0.017 min
Lab File: BN036668.D
Acq: 17 Mar 2025 21:02

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 3542

Ion	Ratio	Lower	Upper
276	100		
277	27.5	22.2	33.4
138	29.2	24.1	36.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036674.D
Acq On : 18 Mar 2025 00:39
Operator : RC/JU
Sample : Q1582-11
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Quant Time: Mar 18 01:19:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

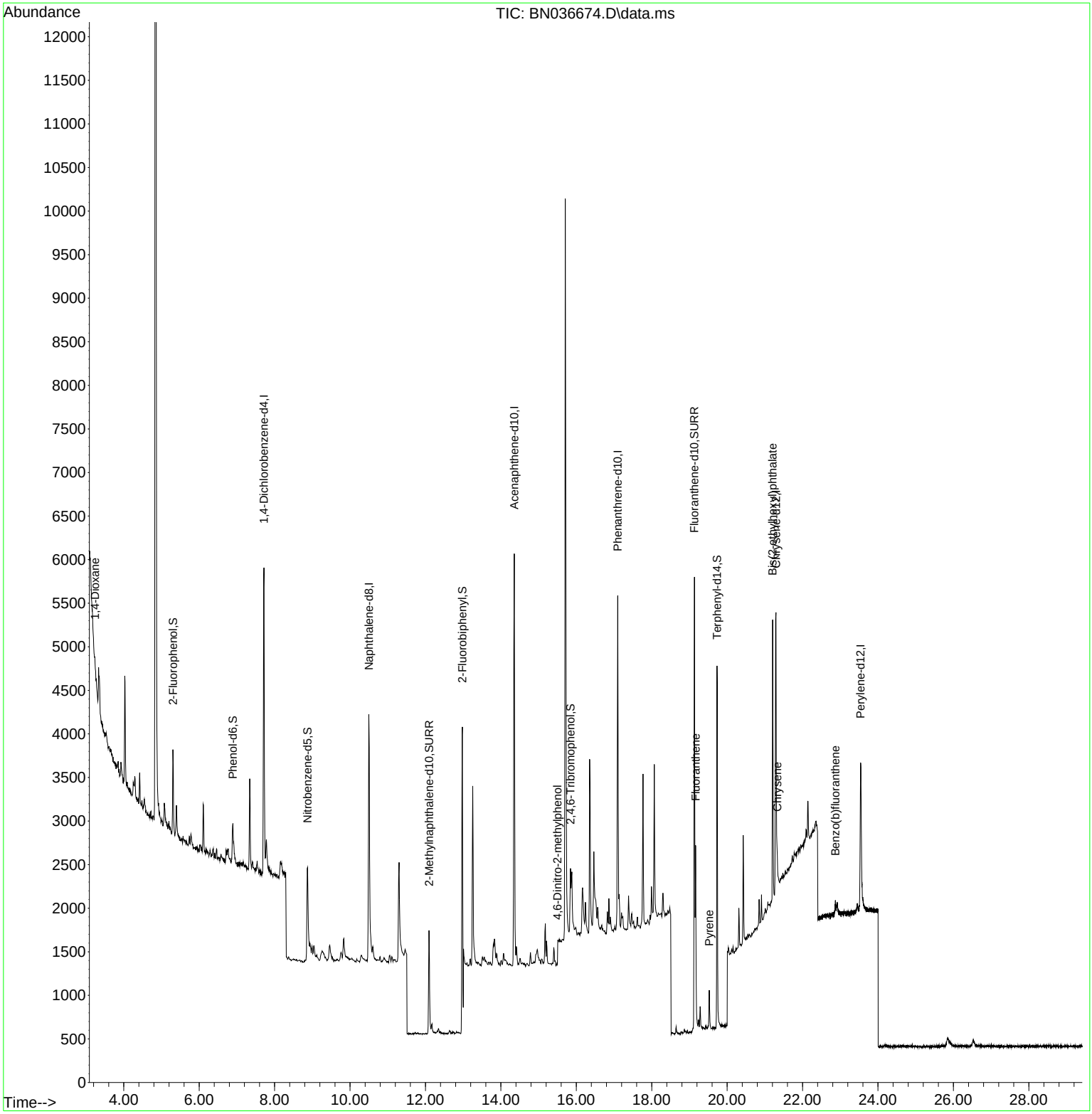
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1843	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4422	0.400	ng	-0.01
13) Acenaphthene-d10	14.355	164	2743	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5303	0.400	ng	-0.01
29) Chrysene-d12	21.295	240	3399	0.400	ng	0.00
35) Perylene-d12	23.540	264	2777	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	692	0.161	ng	0.00
5) Phenol-d6	6.894	99	458	0.086	ng	0.00
8) Nitrobenzene-d5	8.875	82	1347	0.280	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1913	0.291	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	454	0.365	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4694	0.294	ng	-0.01
27) Fluoranthene-d10	19.132	212	5847	0.430	ng	0.00
31) Terphenyl-d14	19.736	244	4142	0.509	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.239	88	89	0.044	ng	# 44
20) 4,6-Dinitro-2-methylph...	15.499	198	8	0.152	ng	# 1
28) Fluoranthene	19.164	202	392	0.022	ng	# 5
30) Pyrene	19.527	202	368	0.022	ng	# 91
33) Chrysene	21.331	228	263	0.020	ng	# 65
34) Bis(2-ethylhexyl)phtha...	21.205	149	3167	0.376	ng	# 94
37) Benzo(b)fluoranthene	22.870	252	210	0.021	ng	# 1

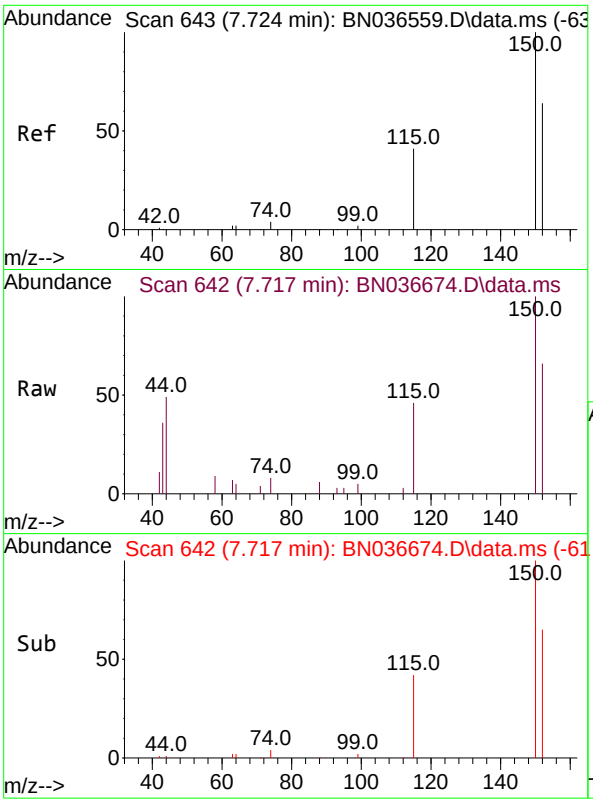
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036674.D
Acq On : 18 Mar 2025 00:39
Operator : RC/JU
Sample : Q1582-11
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Quant Time: Mar 18 01:19:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



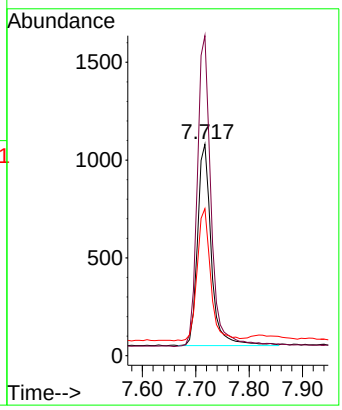


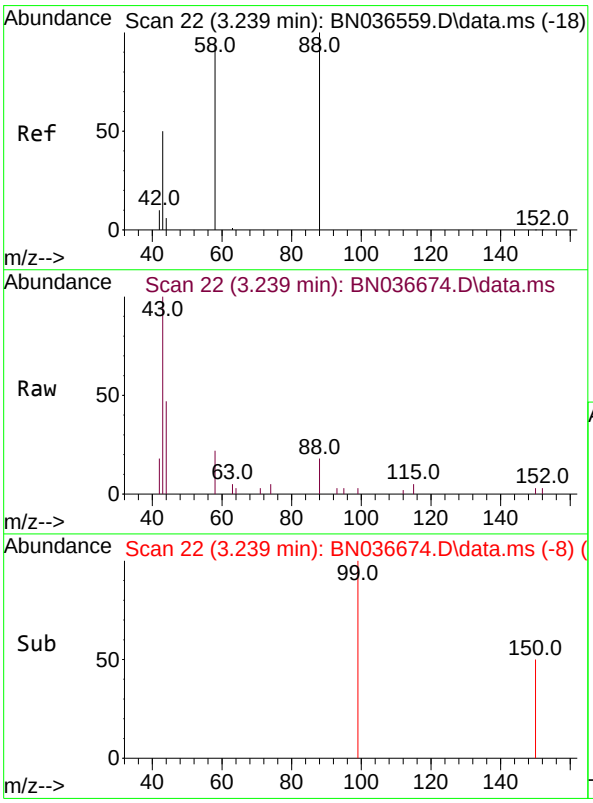
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:152 Resp: 1843

Ion	Ratio	Lower	Upper
152	100		
150	151.3	123.7	185.5
115	69.6	54.3	81.5

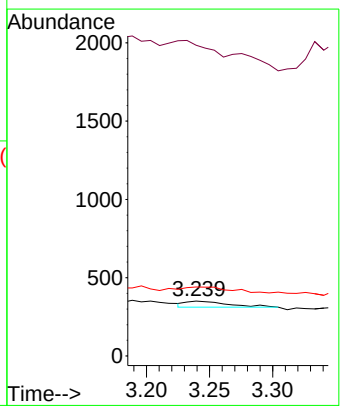


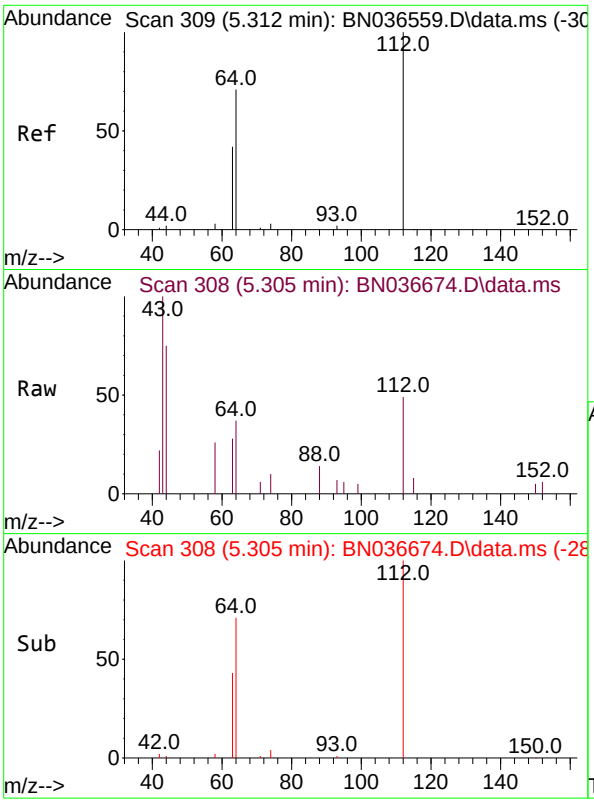


#2
1,4-Dioxane
Concen: 0.044 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion: 88 Resp: 89

Ion	Ratio	Lower	Upper
88	100		
43	0.0	37.8	56.8#
58	128.1	67.4	101.2#



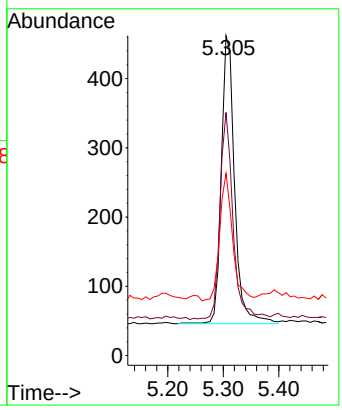


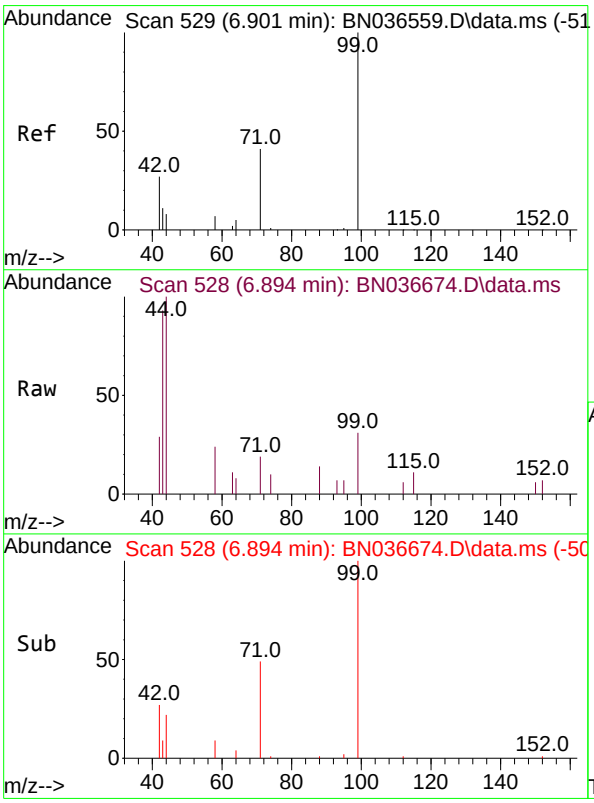
#4
2-Fluorophenol
Concen: 0.161 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:112 Resp: 692

Ion	Ratio	Lower	Upper
112	100		
64	69.9	53.1	79.7
63	42.8	31.8	47.8

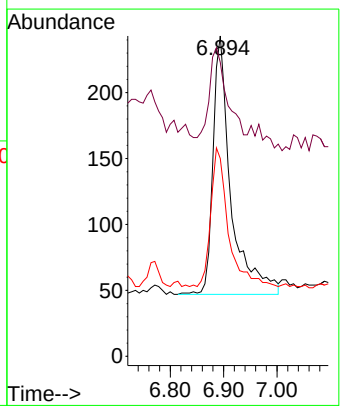


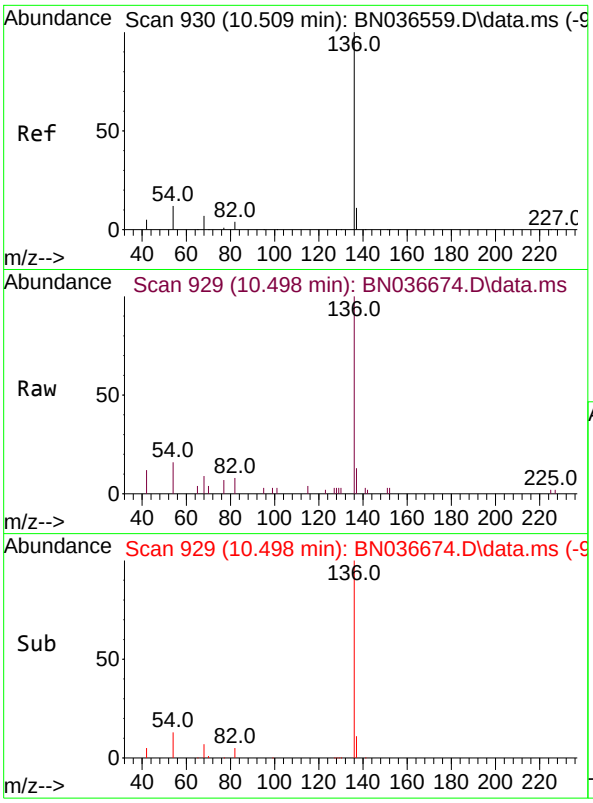


#5
Phenol-d6
Concen: 0.086 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion: 99 Resp: 458

Ion	Ratio	Lower	Upper
99	100		
42	34.9	26.5	39.7
71	52.8	34.1	51.1#



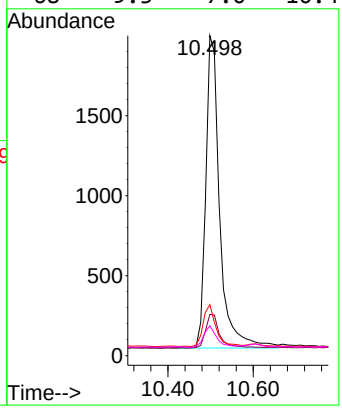


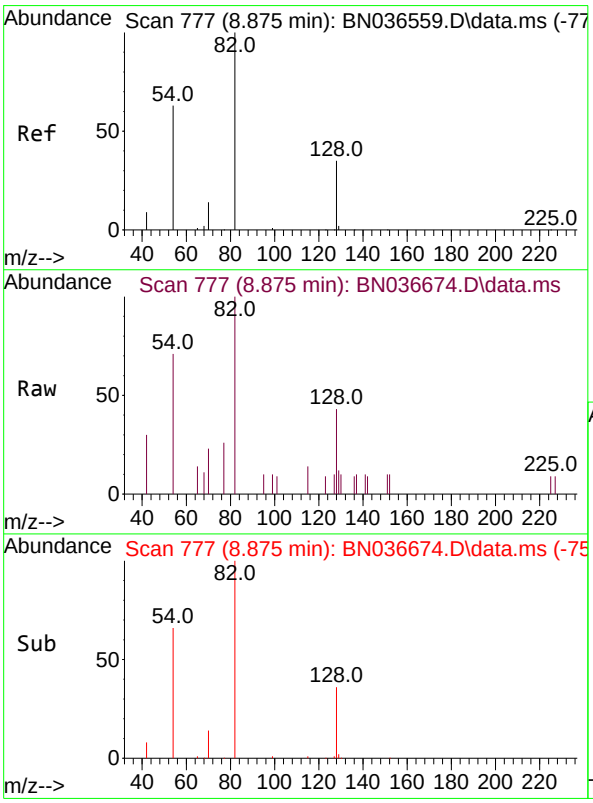
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:136 Resp: 4422

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	16.0	11.5	17.3
68	9.3	7.0	10.4

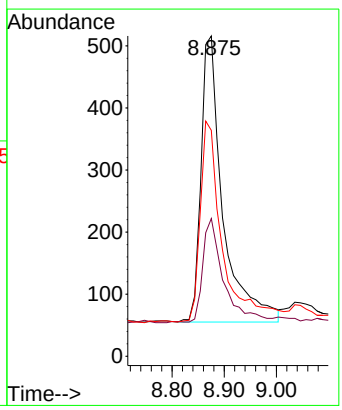


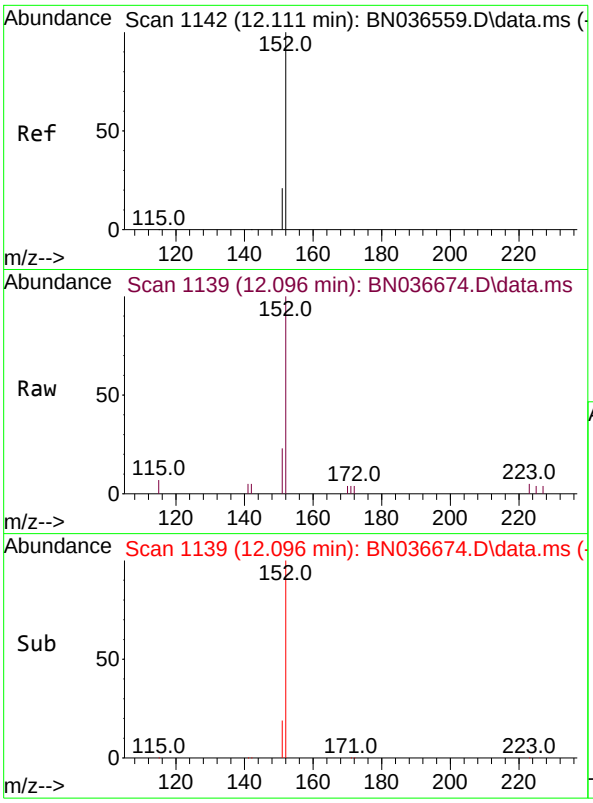


#8
Nitrobenzene-d5
Concen: 0.280 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion: 82 Resp: 1347

Ion	Ratio	Lower	Upper
82	100		
128	43.0	30.6	45.8
54	70.5	52.2	78.4



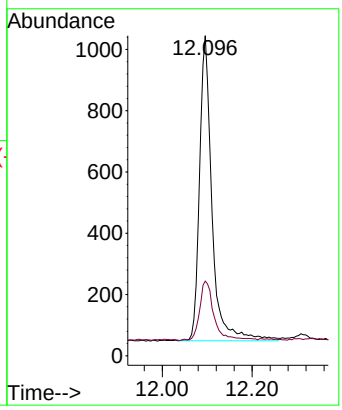


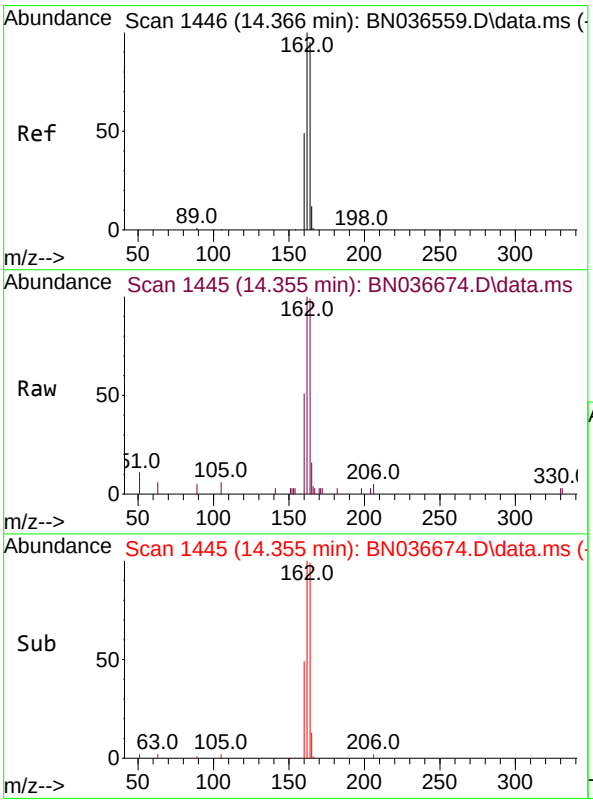
#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:152 Resp: 1913

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.0	25.6

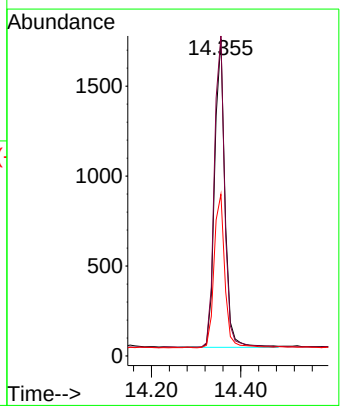


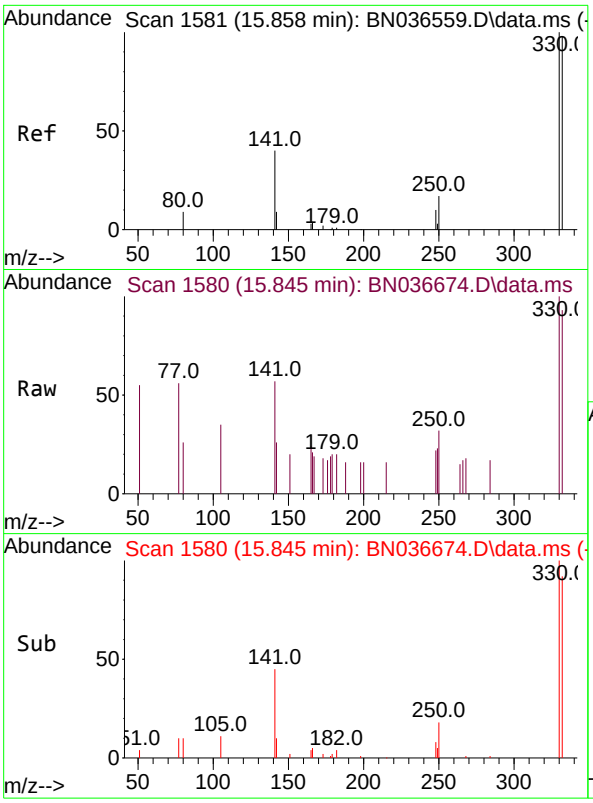


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:164 Resp: 2743

Ion	Ratio	Lower	Upper
164	100		
162	100.9	84.2	126.2
160	51.0	42.2	63.2



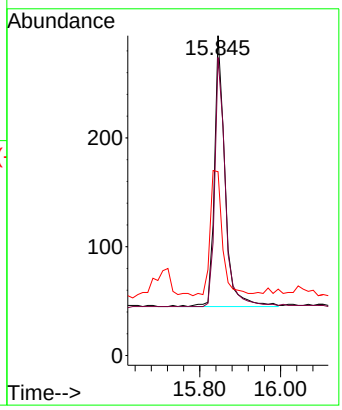


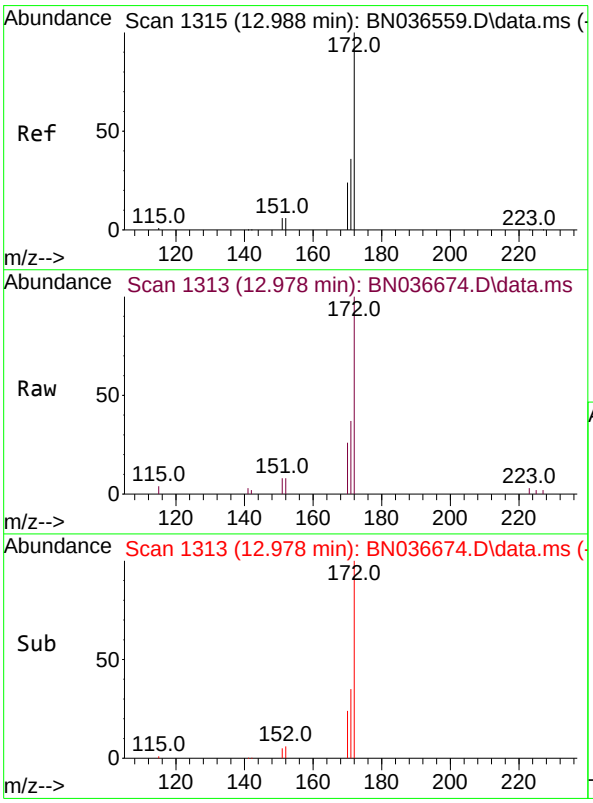
#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:330 Resp: 454

Ion	Ratio	Lower	Upper
330	100		
332	92.1	75.2	112.8
141	54.0	43.4	65.2

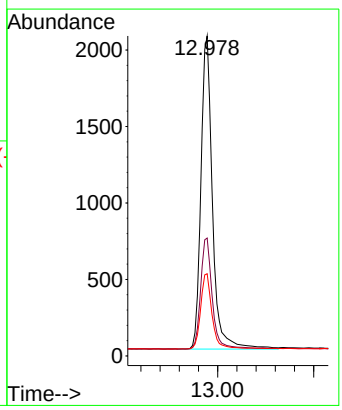


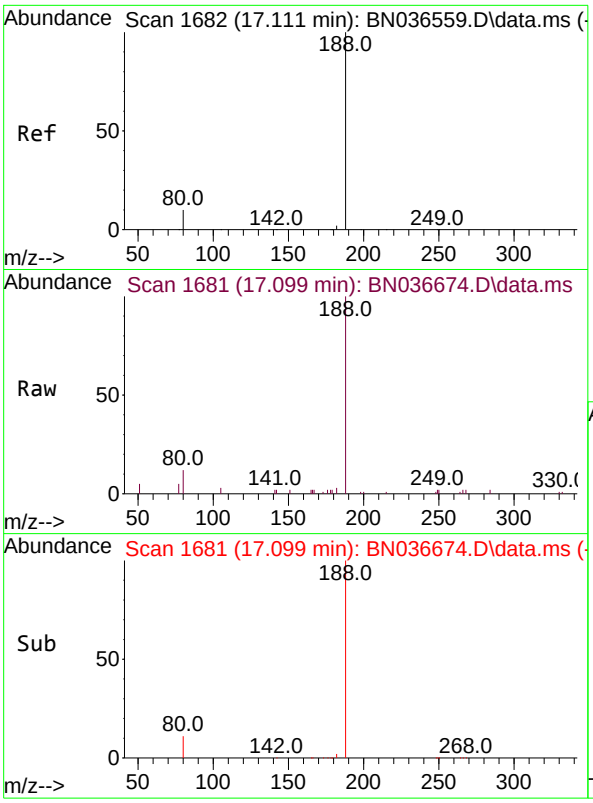


#15
2-Fluorobiphenyl
Concen: 0.294 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:172 Resp: 4694

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.5	44.3
170	25.7	20.2	30.4



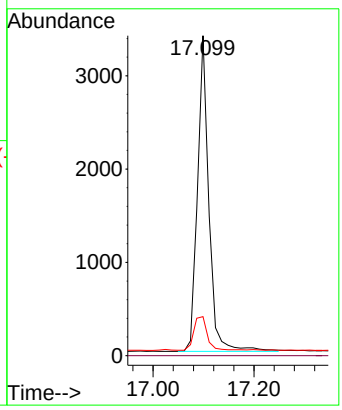


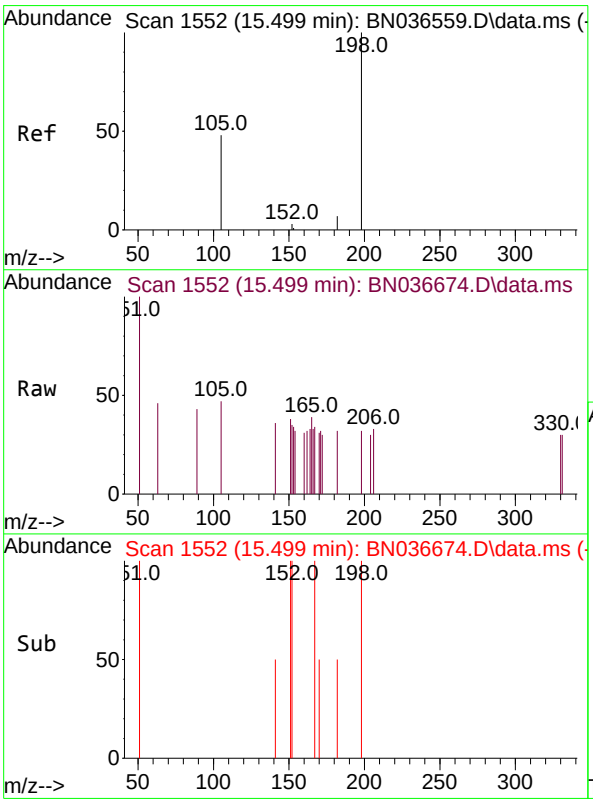
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:188 Resp: 5303

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	8.8	13.2

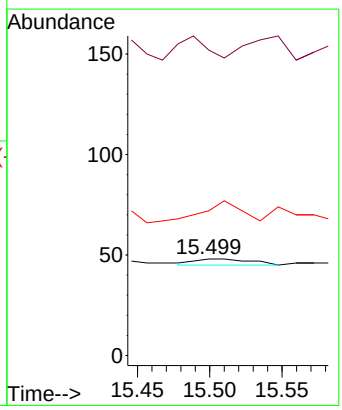


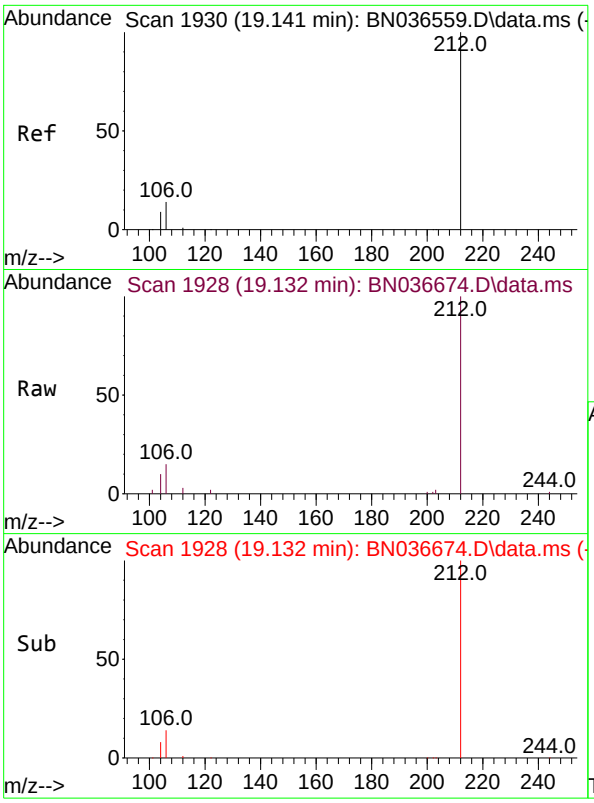


#20
4,6-Dinitro-2-methylphenol
Concen: 0.152 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:198 Resp: 8

Ion	Ratio	Lower	Upper
198	100		
51	316.7	107.9	161.9#
105	150.0	56.2	84.2#



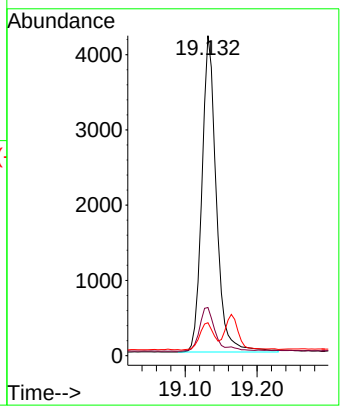


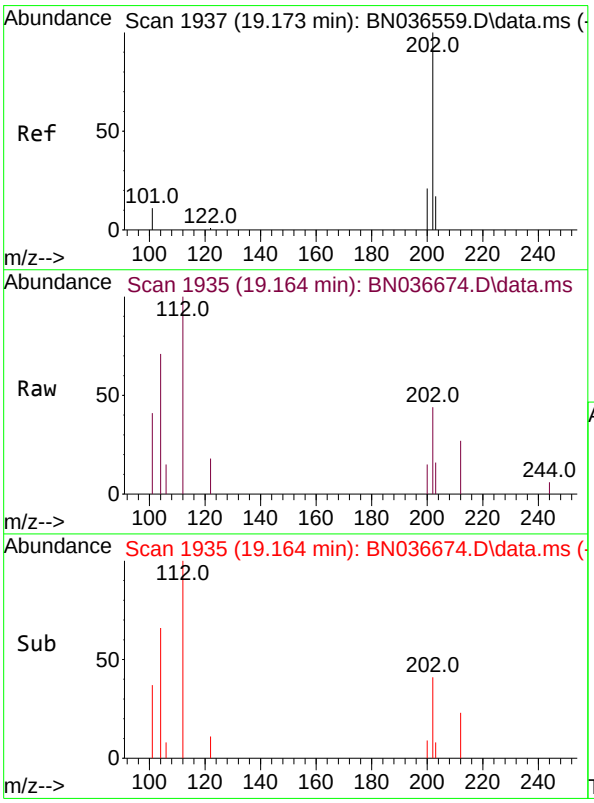
#27
Fluoranthene-d10
Concen: 0.430 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:212 Resp: 5847

Ion	Ratio	Lower	Upper
212	100		
106	15.1	11.8	17.6
104	8.4	7.3	10.9

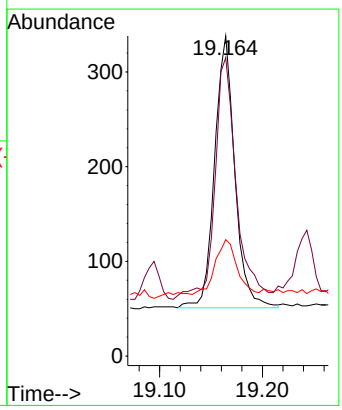


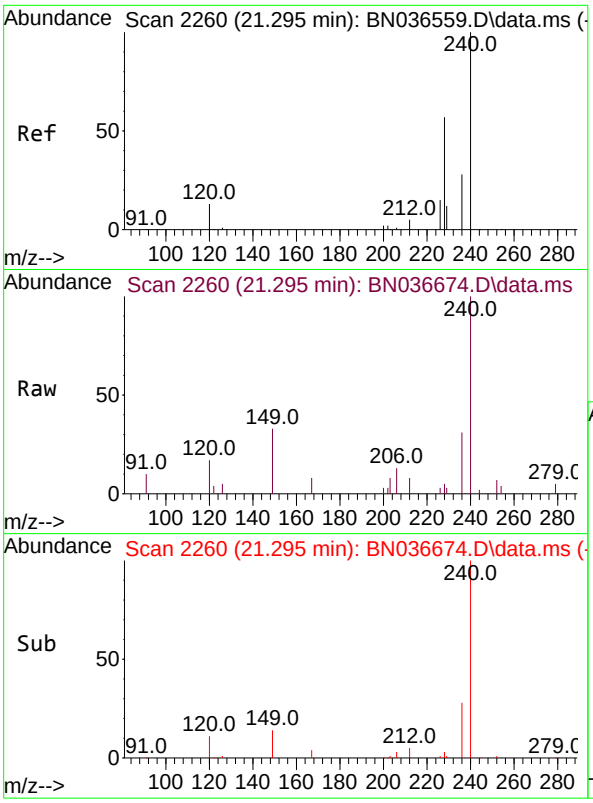


#28
Fluoranthene
Concen: 0.022 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:202 Resp: 392

Ion	Ratio	Lower	Upper
202	100		
101	94.9	9.4	14.0#
203	22.2	13.5	20.3#



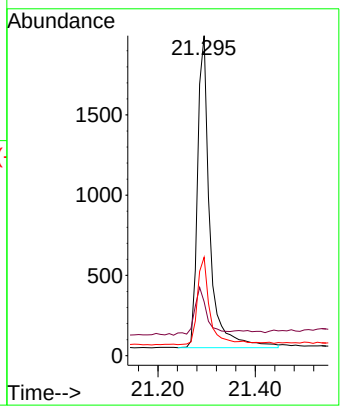


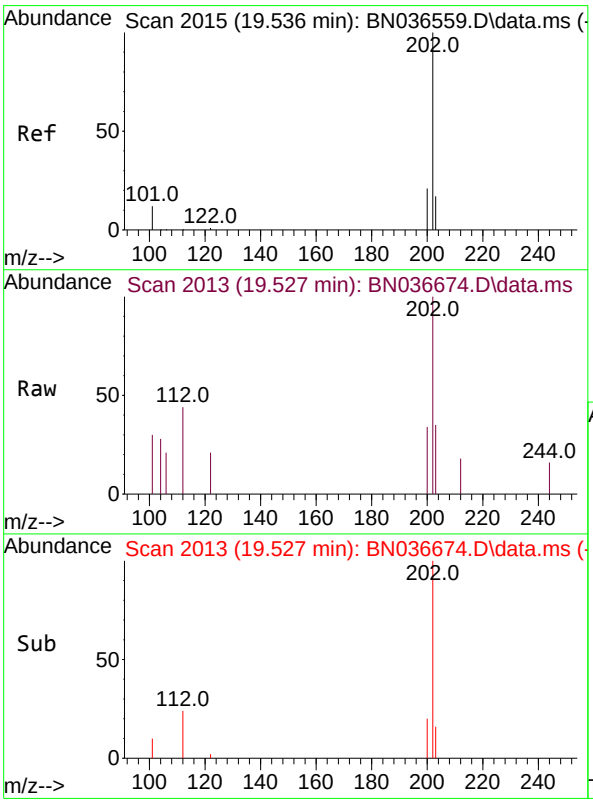
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:240 Resp: 3399

Ion	Ratio	Lower	Upper
240	100		
120	16.9	14.6	22.0
236	30.7	24.1	36.1

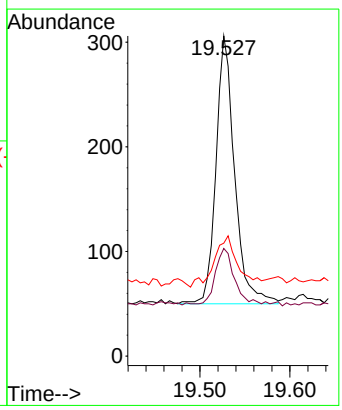


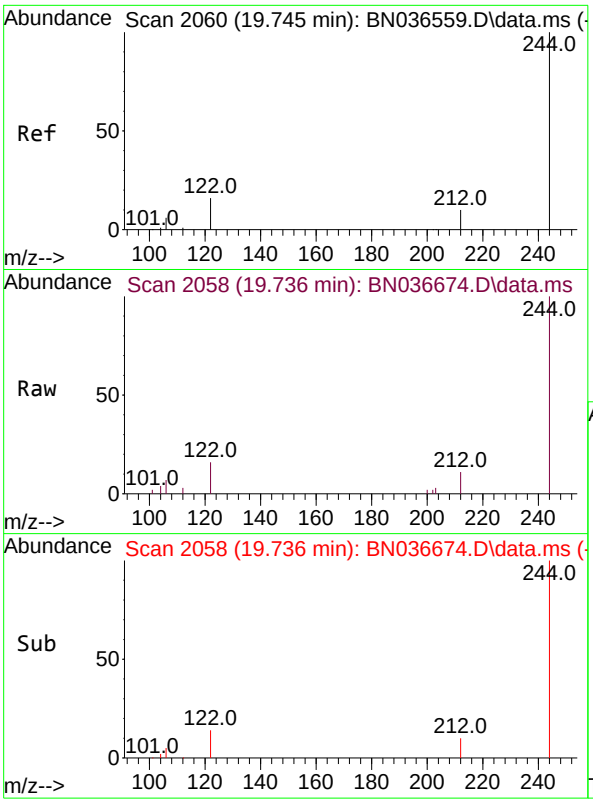


#30
Pyrene
Concen: 0.022 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:202 Resp: 368

Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.1	25.7
203	24.5	14.1	21.1#



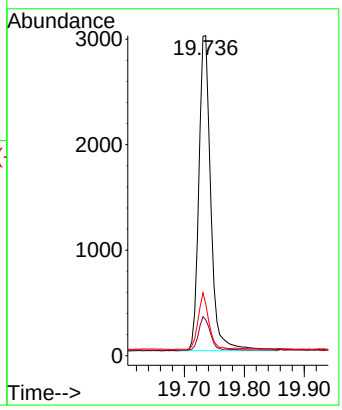


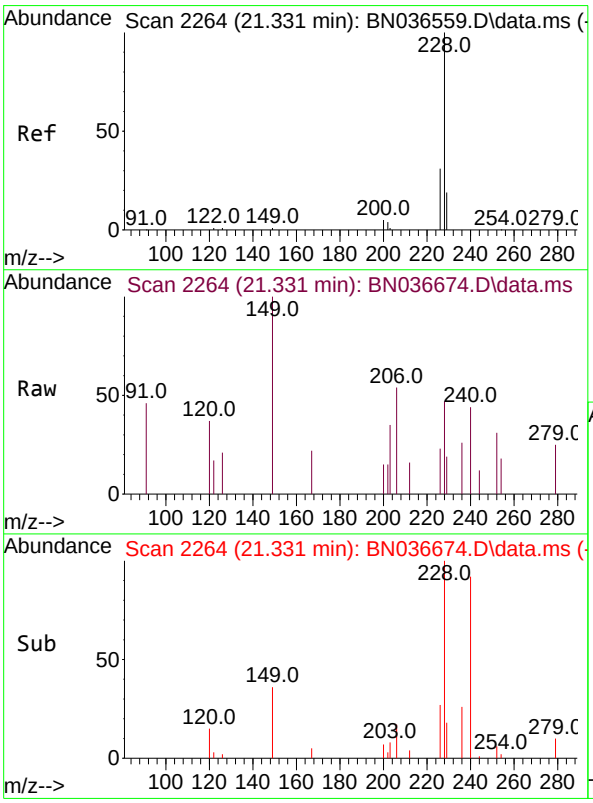
#31
Terphenyl-d14
Concen: 0.509 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:244 Resp: 4142

Ion	Ratio	Lower	Upper
244	100		
212	11.2	9.6	14.4
122	16.2	13.9	20.9

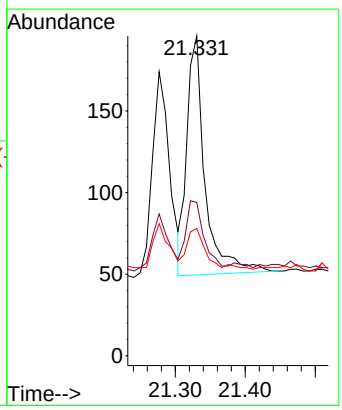


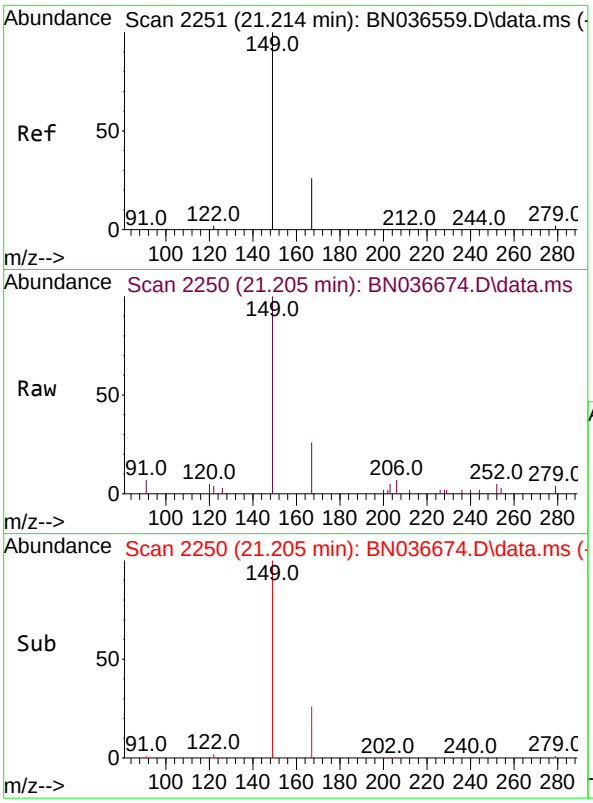


#33
Chrysene
Concen: 0.020 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:228 Resp: 263

Ion	Ratio	Lower	Upper
228	100		
226	48.0	25.3	37.9#
229	39.8	15.8	23.8#



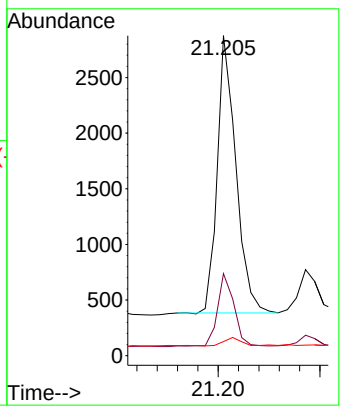


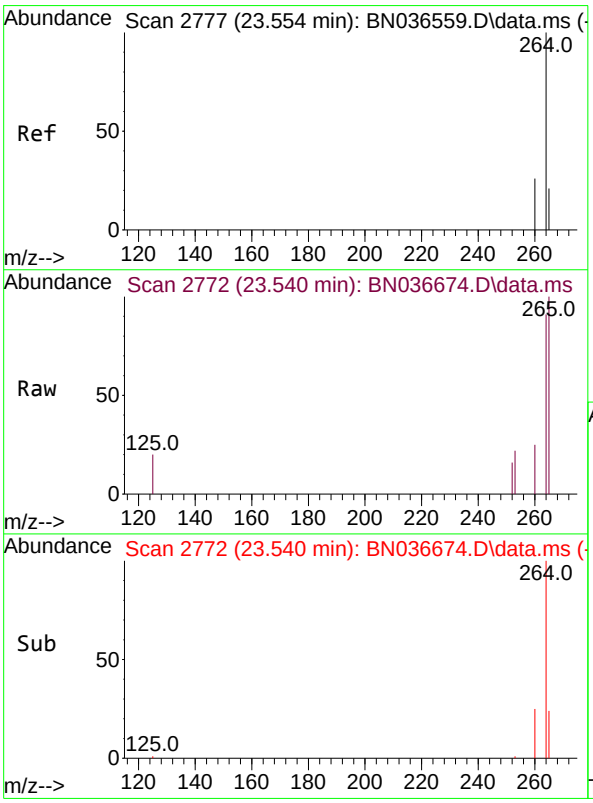
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.376 ng
RT: 21.205 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:149 Resp: 3167

Ion	Ratio	Lower	Upper
149	100		
167	22.9	20.7	31.1
279	2.8	3.6	5.4#

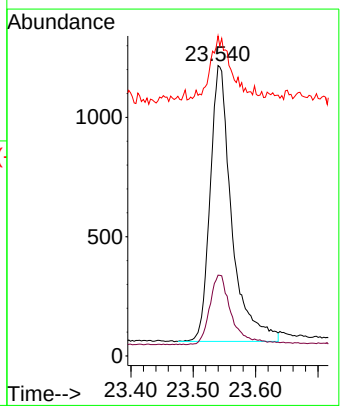


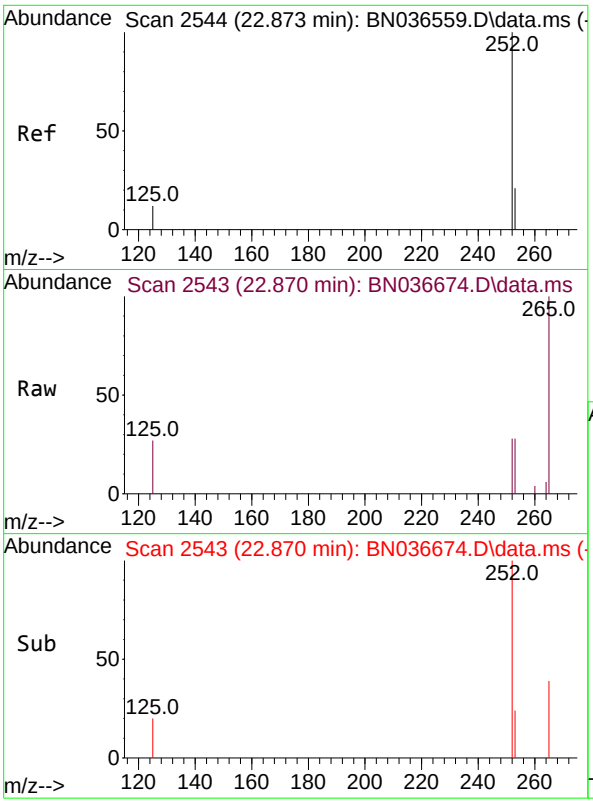


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.540 min Scan# 2772
Delta R.T. -0.015 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Tgt Ion:264 Resp: 2777

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.6	33.8
265	110.2	88.1	132.1



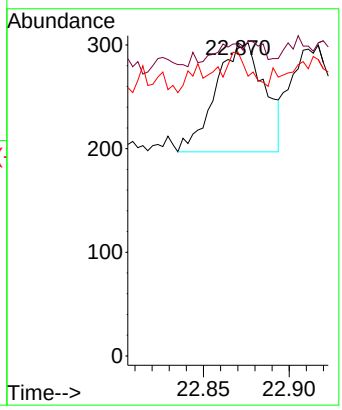


#37
Benzo(b)fluoranthene
Concen: 0.021 ng
RT: 22.870 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN036674.D
Acq: 18 Mar 2025 00:39

Instrument :
BNA_N
ClientSampleId :
BPOW1-7-20250314

Tgt Ion:252 Resp: 210

Ion	Ratio	Lower	Upper
252	100		
253	99.7	23.9	35.9#
125	97.0	17.4	26.2#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036678.D
Acq On : 18 Mar 2025 03:04
Operator : RC/JU
Sample : Q1582-15
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Quant Time: Mar 18 04:19:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1973	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4653	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2790	0.400	ng	-0.01
19) Phenanthrene-d10	17.099	188	5581	0.400	ng	#-0.01
29) Chrysene-d12	21.295	240	3549	0.400	ng	0.00
35) Perylene-d12	23.546	264	2795	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	703	0.153	ng	0.00
5) Phenol-d6	6.894	99	472	0.083	ng	0.00
8) Nitrobenzene-d5	8.875	82	1470	0.290	ng	0.00
11) 2-Methylnaphthalene-d10	12.096	152	1673	0.242	ng	-0.02
14) 2,4,6-Tribromophenol	15.845	330	449	0.355	ng	-0.01
15) 2-Fluorobiphenyl	12.978	172	4407	0.272	ng	0.00
27) Fluoranthene-d10	19.132	212	5992	0.419	ng	0.00
31) Terphenyl-d14	19.736	244	4135	0.486	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.232	88	133	0.061	ng	# 58
20) 4,6-Dinitro-2-methylph...	15.510	198	7	0.151	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.205	149	1509	0.172	ng	# 94

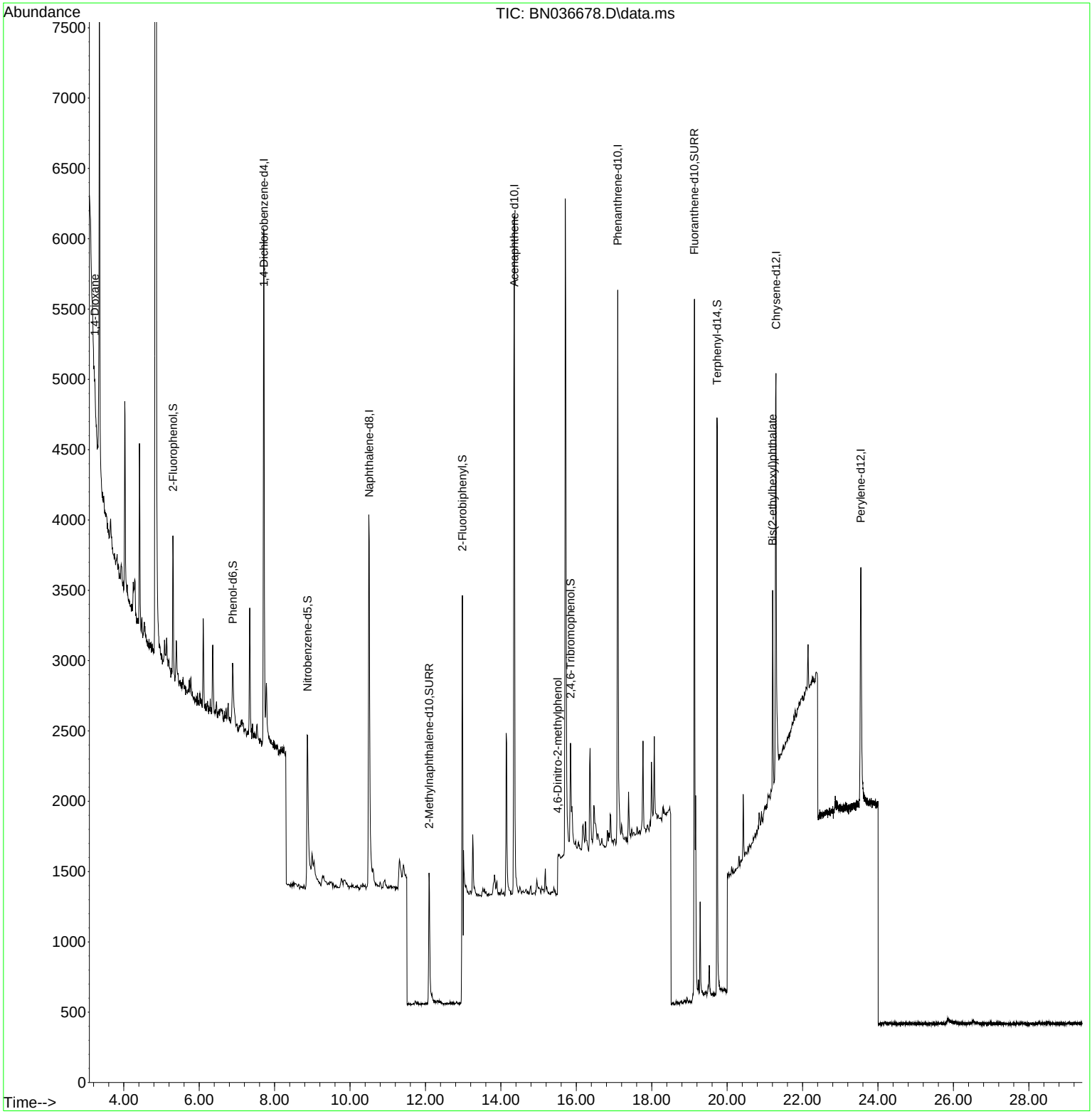
(#) = qualifier out of range (m) = manual integration (+) = signals summed

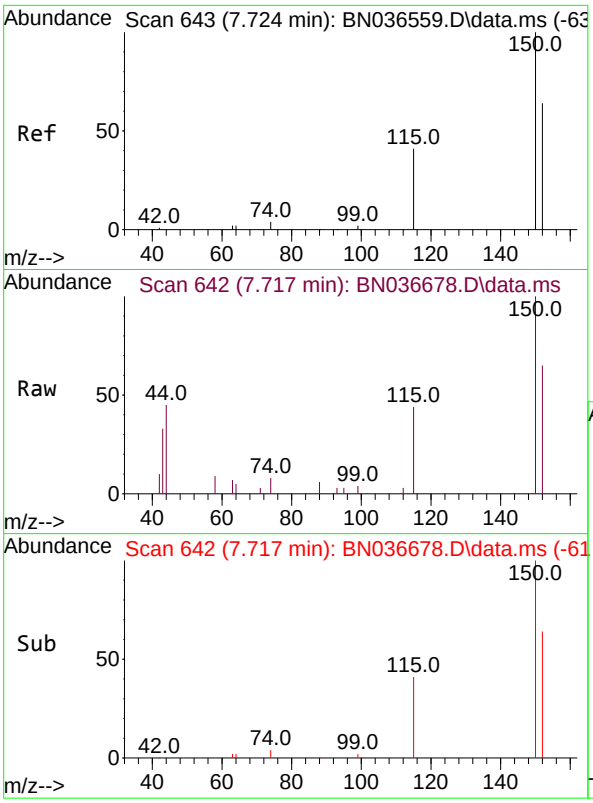
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036678.D
Acq On : 18 Mar 2025 03:04
Operator : RC/JU
Sample : Q1582-15
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Quant Time: Mar 18 04:19:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



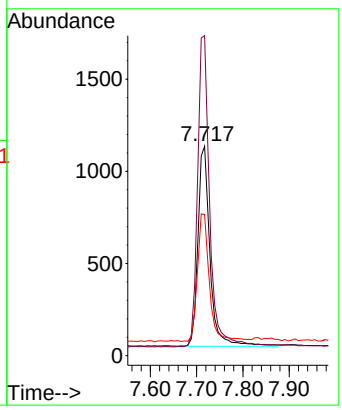


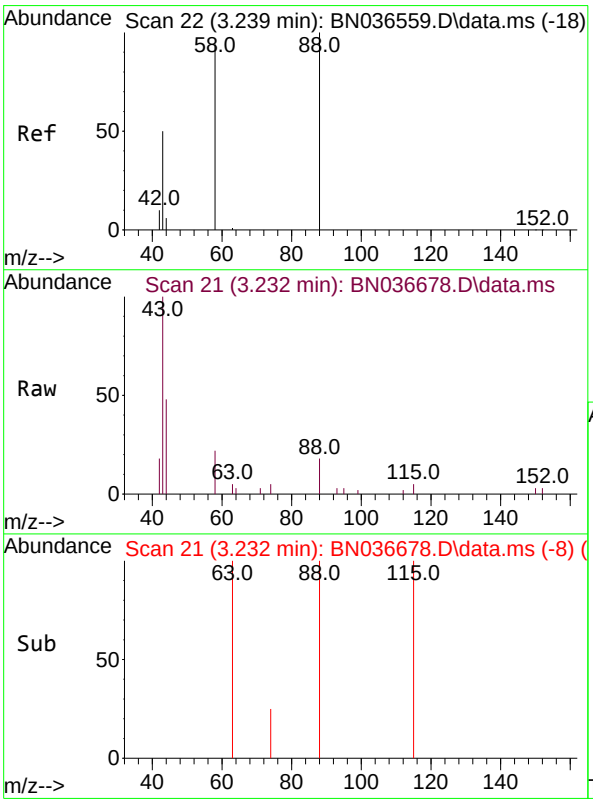
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:152 Resp: 1973

Ion	Ratio	Lower	Upper
152	100		
150	152.8	123.7	185.5
115	67.4	54.3	81.5

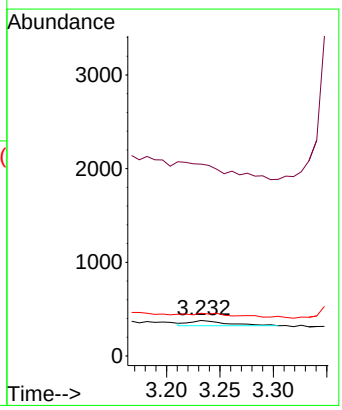


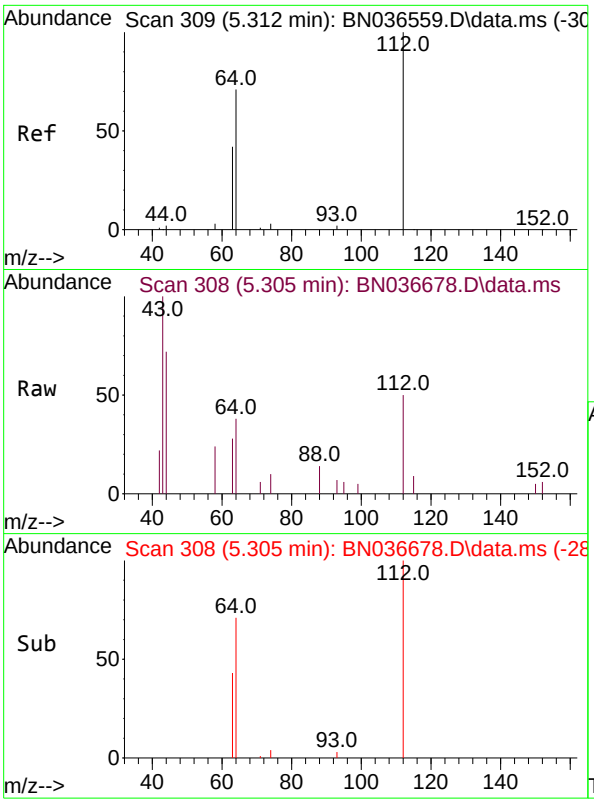


#2
1,4-Dioxane
Concen: 0.061 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion: 88 Resp: 133

Ion	Ratio	Lower	Upper
88	100		
43	0.0	37.8	56.8#
58	60.9	67.4	101.2#



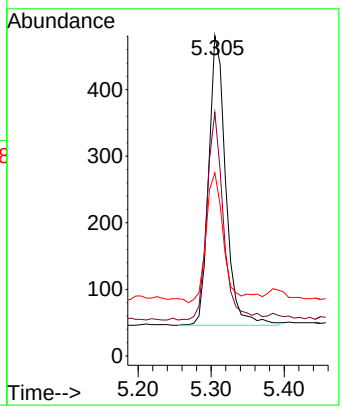


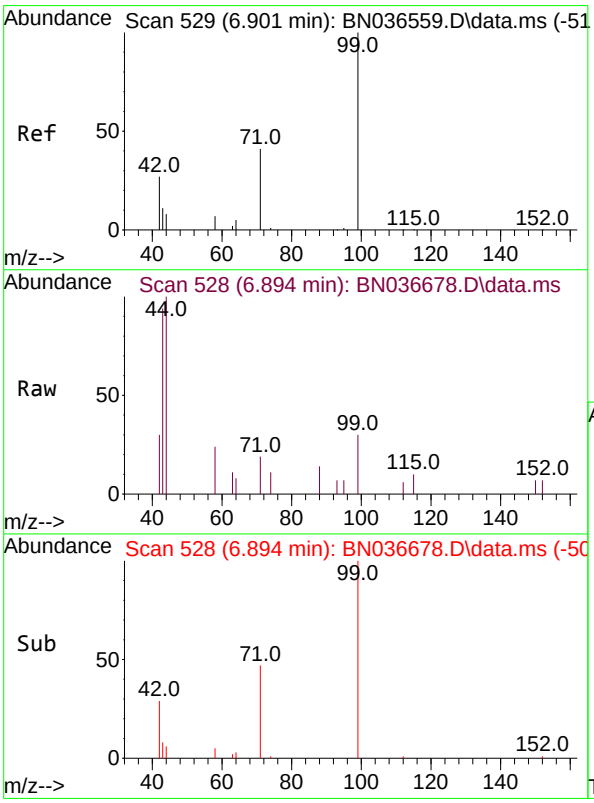
#4
2-Fluorophenol
Concen: 0.153 ng
RT: 5.305 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:112 Resp: 703

Ion	Ratio	Lower	Upper
112	100		
64	69.3	53.1	79.7
63	44.7	31.8	47.8

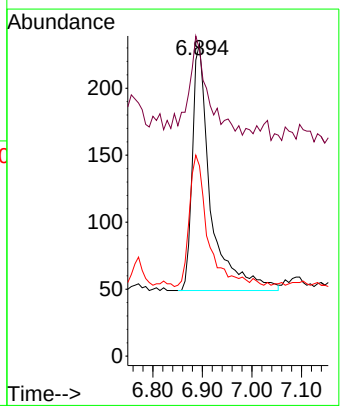


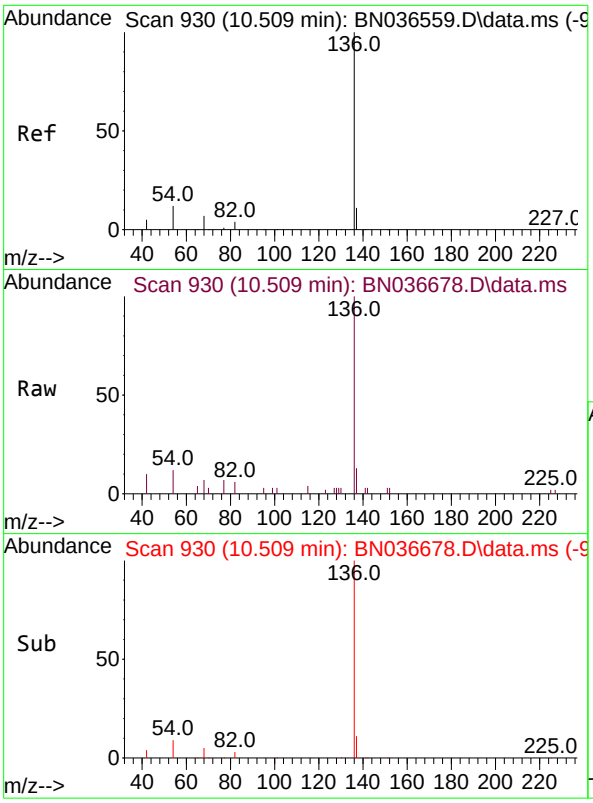


#5
Phenol-d6
Concen: 0.083 ng
RT: 6.894 min Scan# 528
Delta R.T. -0.007 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion: 99 Resp: 472

Ion	Ratio	Lower	Upper
99	100		
42	41.9	26.5	39.7#
71	53.6	34.1	51.1#



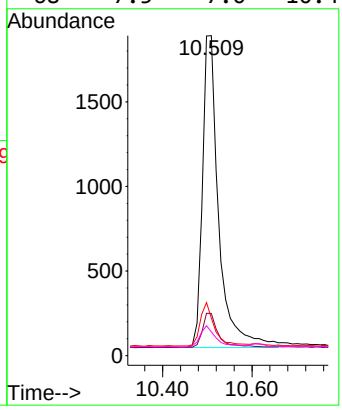


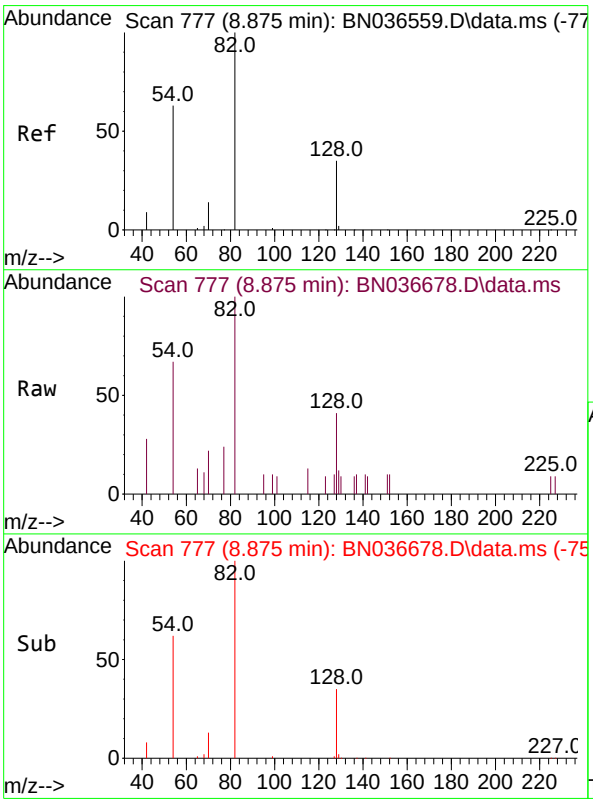
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:136 Resp: 4653

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.3	15.5
54	11.7	11.5	17.3
68	7.5	7.0	10.4

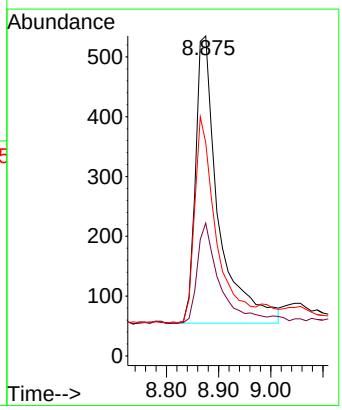


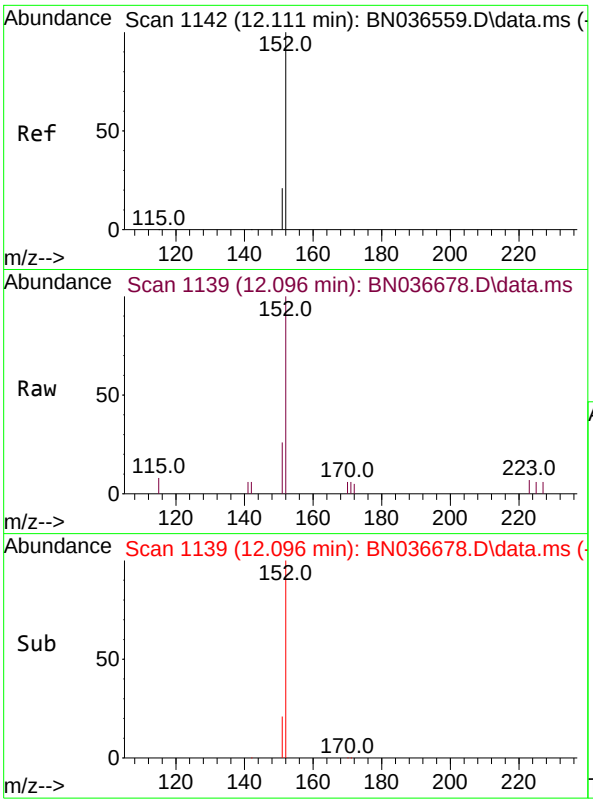


#8
Nitrobenzene-d5
Concen: 0.290 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion: 82 Resp: 1470

Ion	Ratio	Lower	Upper
82	100		
128	41.5	30.6	45.8
54	66.7	52.2	78.4



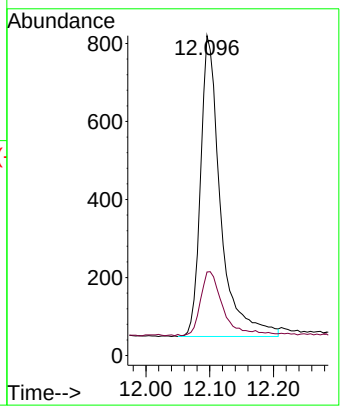


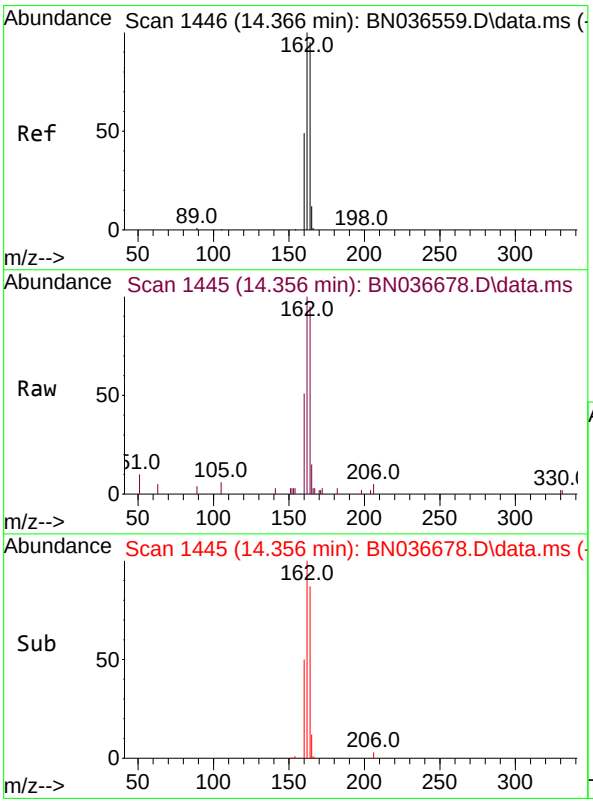
#11
2-Methylnaphthalene-d10
Concen: 0.242 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:152 Resp: 1673

Ion	Ratio	Lower	Upper
152	100		
151	24.1	17.0	25.6

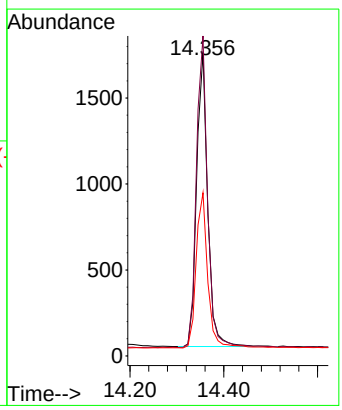


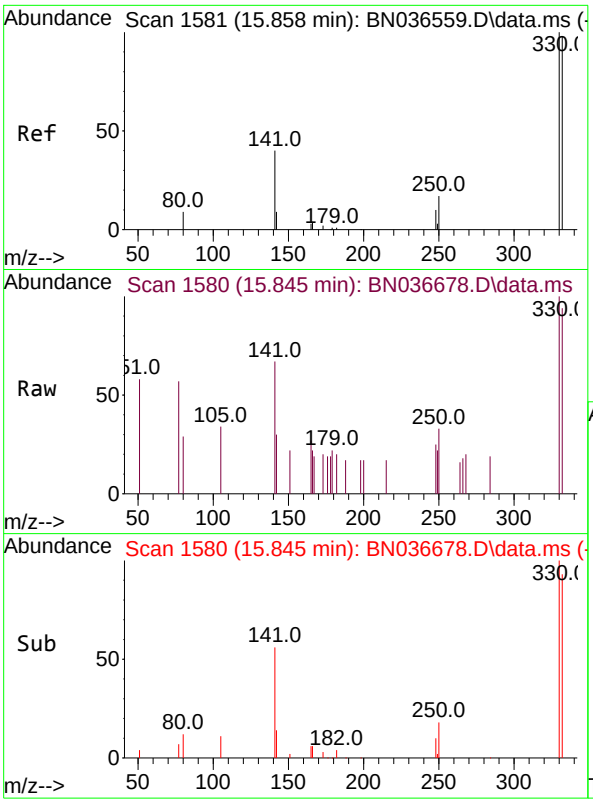


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:164 Resp: 2790

Ion	Ratio	Lower	Upper
164	100		
162	105.7	84.2	126.2
160	53.9	42.2	63.2



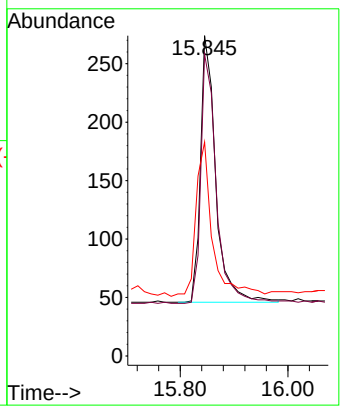


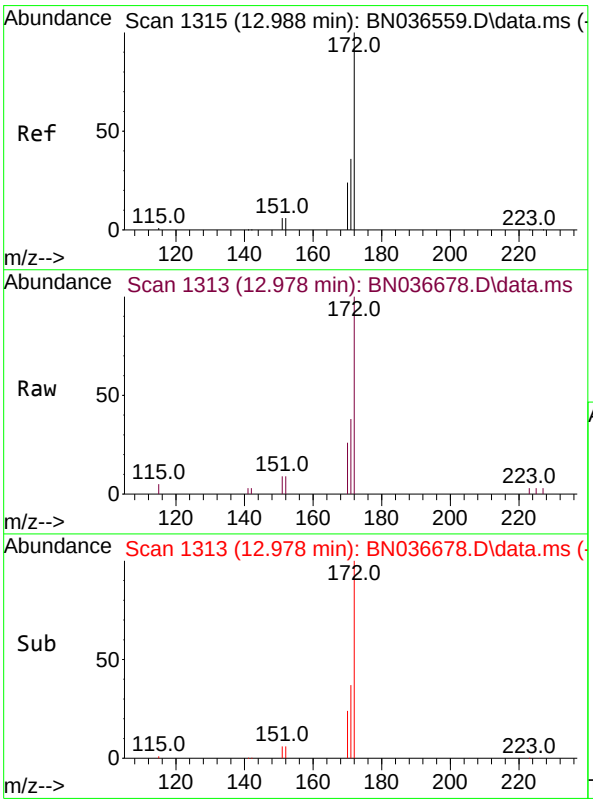
#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.845 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:330 Resp: 449

Ion	Ratio	Lower	Upper
330	100		
332	95.3	75.2	112.8
141	62.6	43.4	65.2

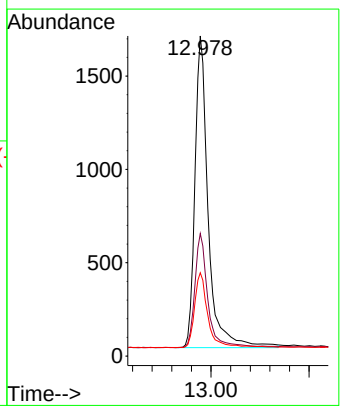


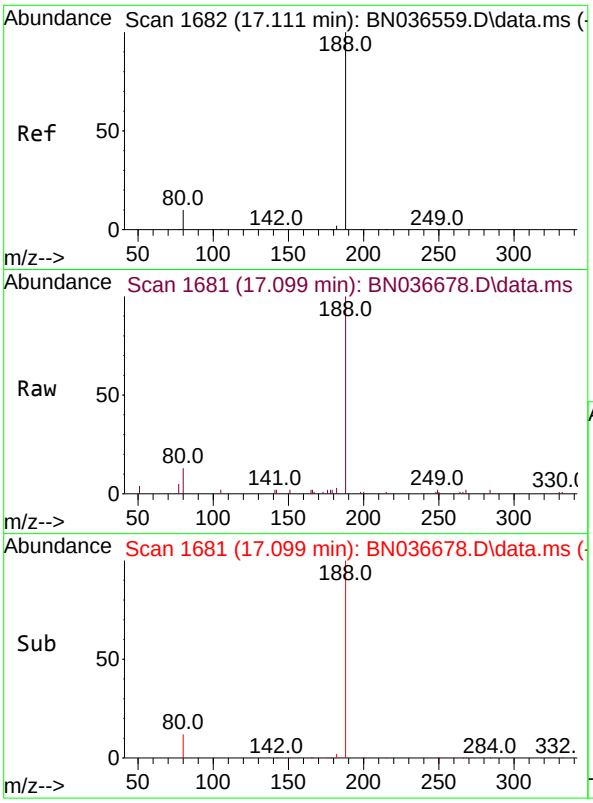


#15
2-Fluorobiphenyl
Concen: 0.272 ng
RT: 12.978 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:172 Resp: 4407

Ion	Ratio	Lower	Upper
172	100		
171	38.3	29.5	44.3
170	26.0	20.2	30.4



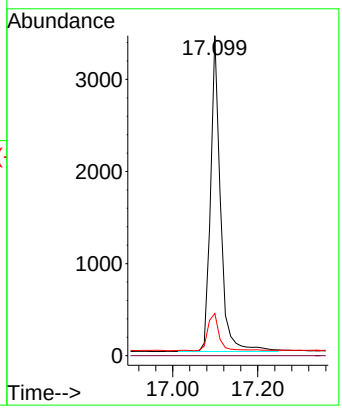


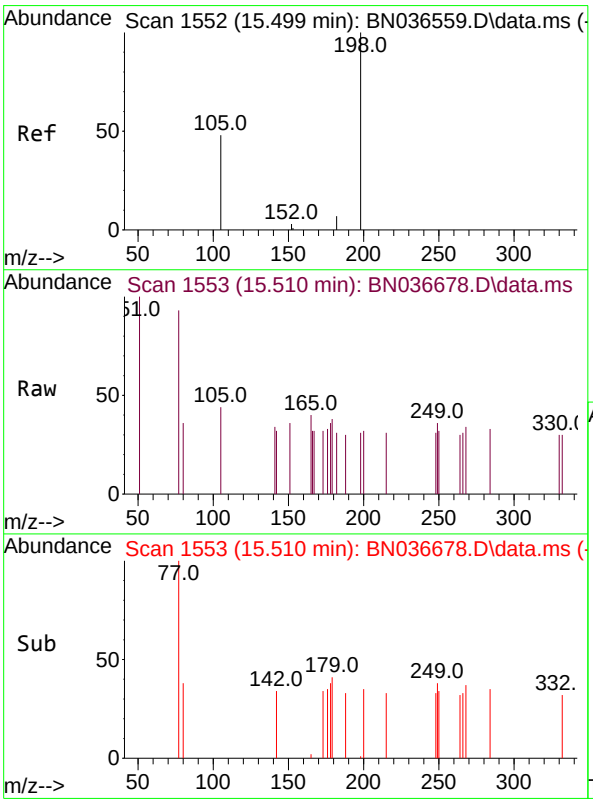
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:188 Resp: 5581

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

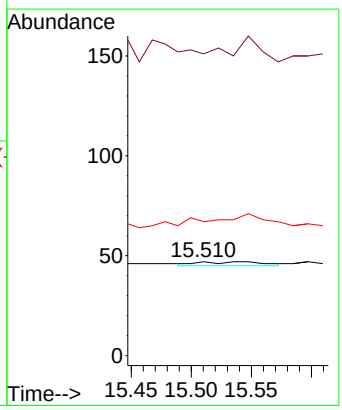


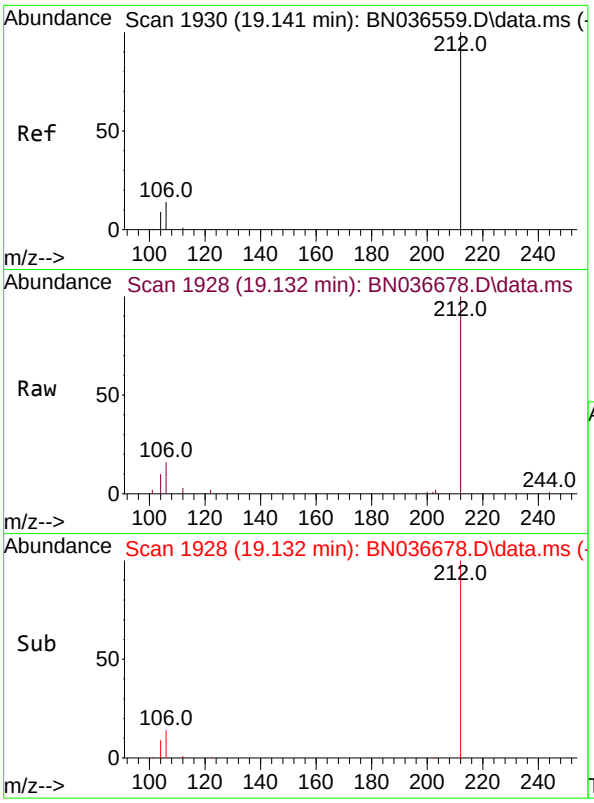


#20
4,6-Dinitro-2-methylphenol
Concen: 0.151 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:198 Resp: 7

Ion	Ratio	Lower	Upper
198	100		
51	321.3	107.9	161.9#
105	142.6	56.2	84.2#



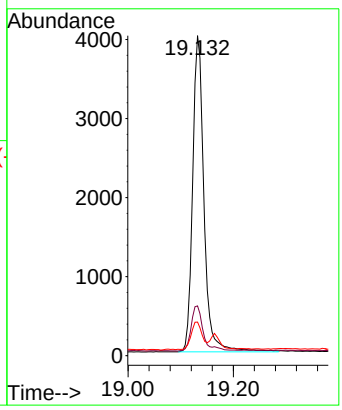


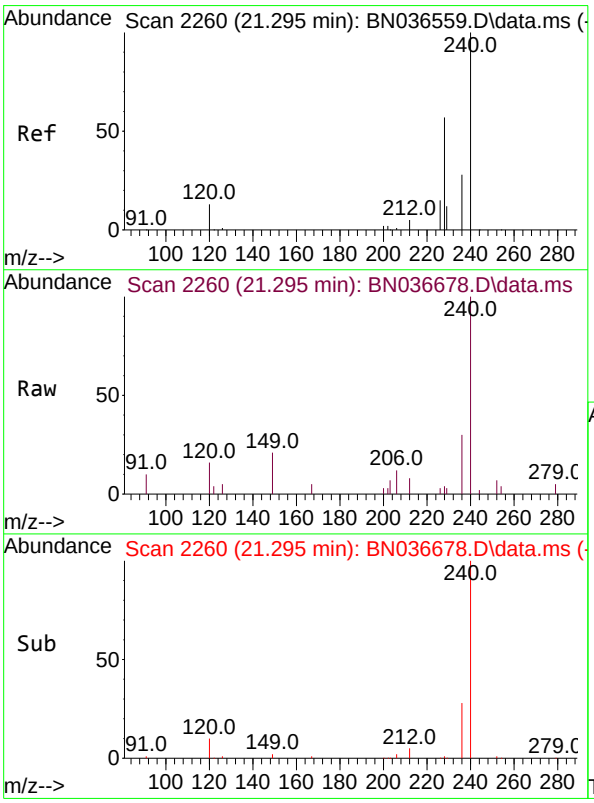
#27
Fluoranthene-d10
Concen: 0.419 ng
RT: 19.132 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:212 Resp: 5992

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

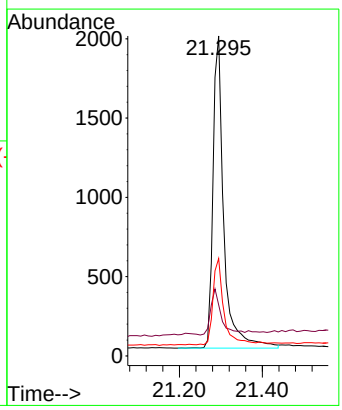


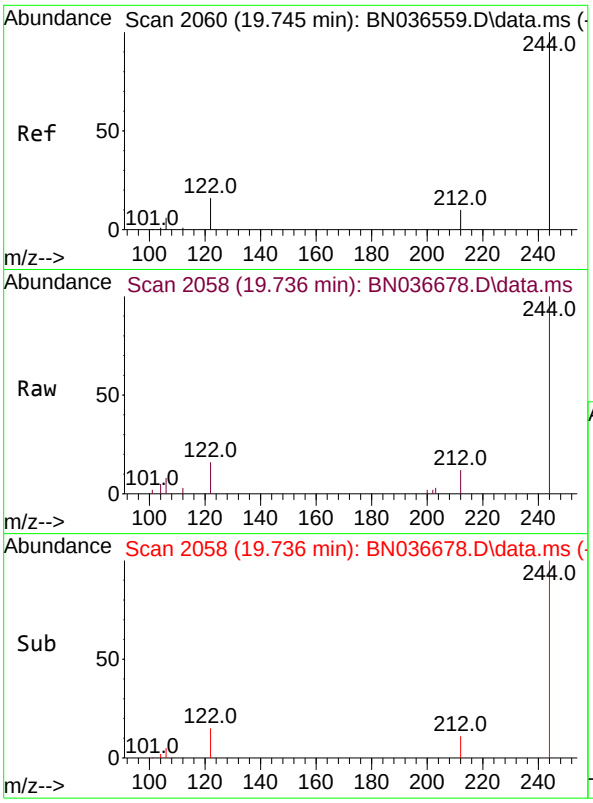


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:240 Resp: 3549

Ion	Ratio	Lower	Upper
240	100		
120	16.0	14.6	22.0
236	30.4	24.1	36.1



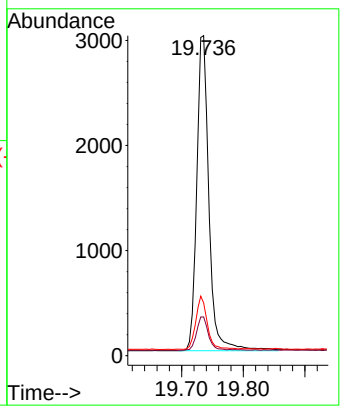


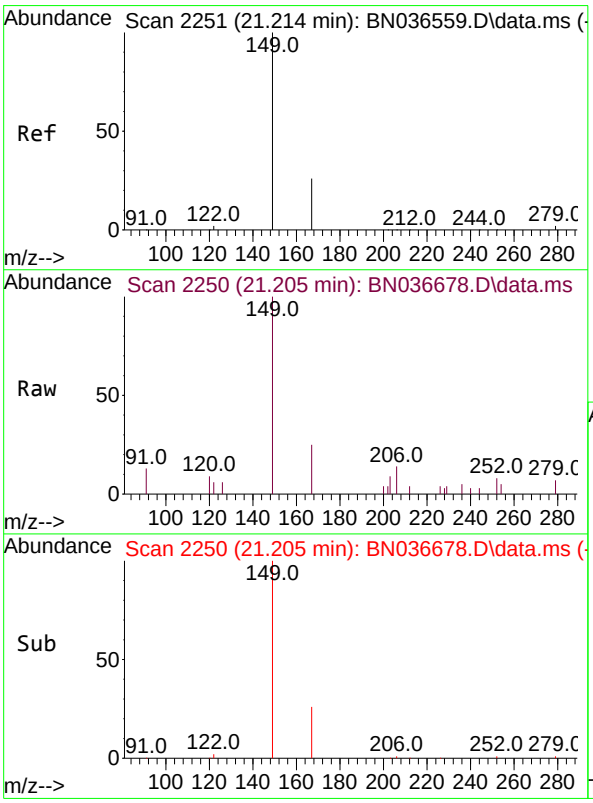
#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.736 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:244 Resp: 4135

Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.6	14.4
122	16.5	13.9	20.9

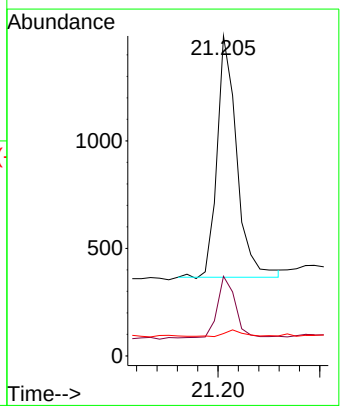


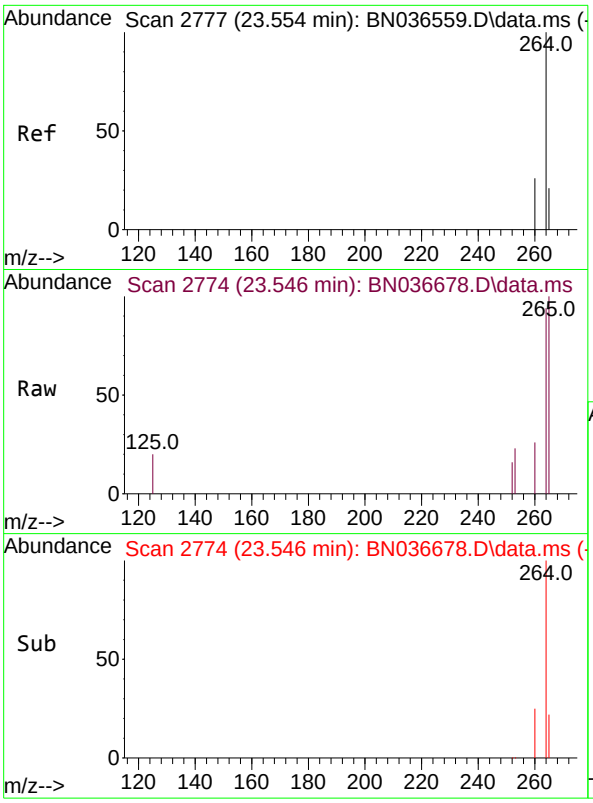


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.172 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Tgt Ion:149 Resp: 1509

Ion	Ratio	Lower	Upper
149	100		
167	23.2	20.7	31.1
279	2.3	3.6	5.4#



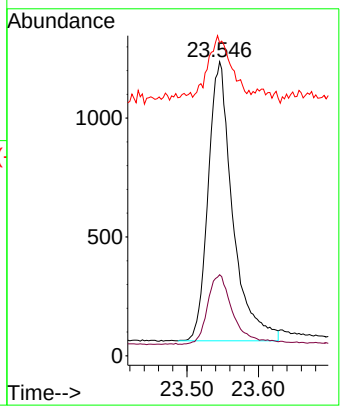


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.546 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036678.D
Acq: 18 Mar 2025 03:04

Instrument :
BNA_N
ClientSampleId :
DUP06-20250314

Tgt Ion:264 Resp: 2795

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.6	33.8
265	106.5	88.1	132.1



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036680.D
Acq On : 18 Mar 2025 04:16
Operator : RC/JU
Sample : PB167159BSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Quant Time: Mar 18 05:22:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

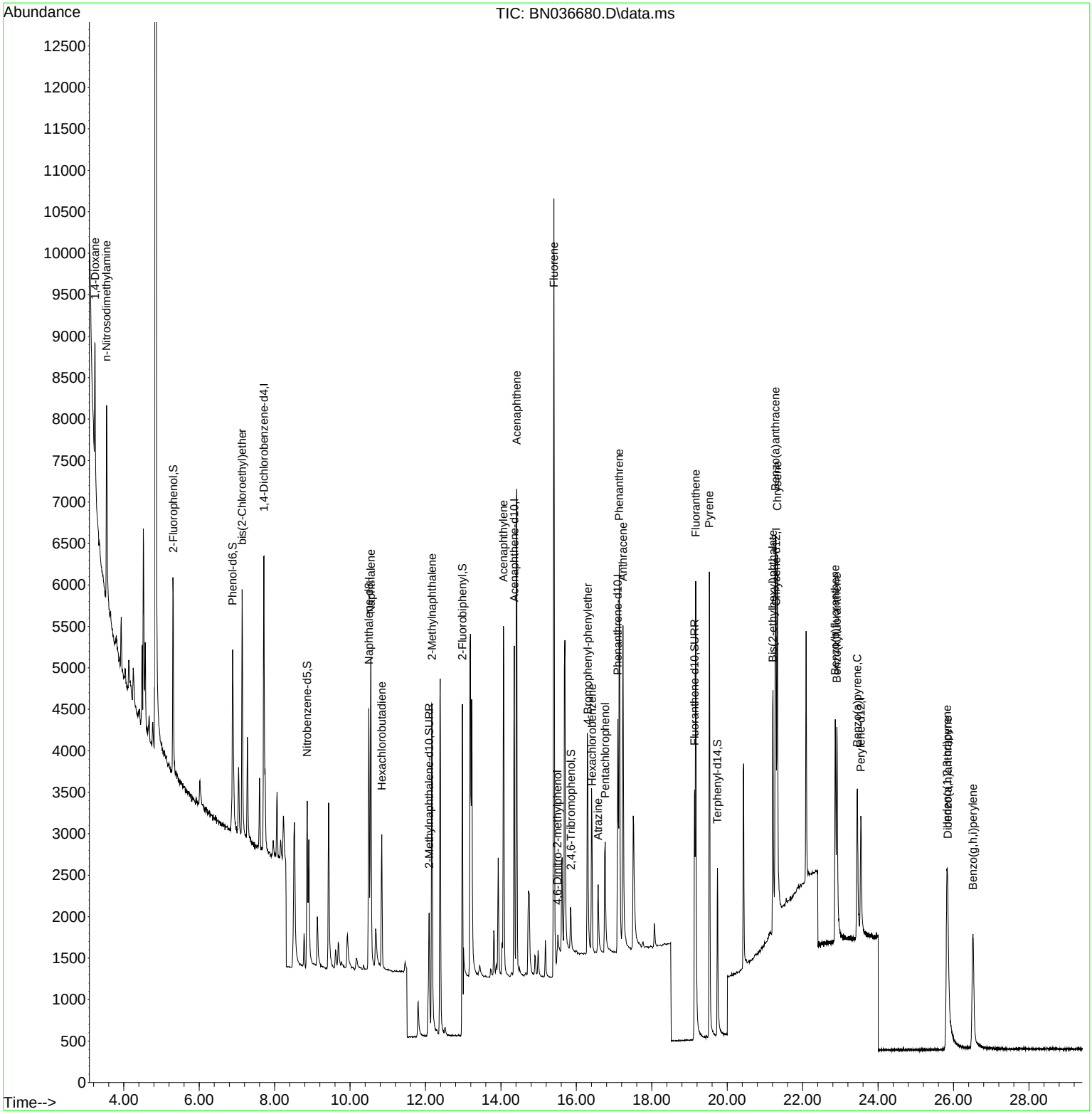
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.717	152	1799	0.400	ng		0.00
7) Naphthalene-d8	10.498	136	4271	0.400	ng		-0.01
13) Acenaphthene-d10	14.355	164	2251	0.400	ng		-0.01
19) Phenanthrene-d10	17.099	188	4157	0.400	ng		-0.01
29) Chrysene-d12	21.295	240	2623	0.400	ng		0.00
35) Perylene-d12	23.543	264	2261	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.312	112	1820	0.434	ng		0.00
5) Phenol-d6	6.886	99	2092	0.404	ng		-0.01
8) Nitrobenzene-d5	8.864	82	1743	0.375	ng		-0.01
11) 2-Methylnaphthalene-d10	12.096	152	3241	0.510	ng		-0.02
14) 2,4,6-Tribromophenol	15.858	330	376	0.368	ng		0.00
15) 2-Fluorobiphenyl	12.978	172	5679	0.434	ng		-0.01
27) Fluoranthene-d10	19.136	212	4030	0.378	ng		0.00
31) Terphenyl-d14	19.740	244	2694	0.429	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.239	88	760	0.381	ng	#	30
3) n-Nitrosodimethylamine	3.543	42	1942	0.481	ng	#	87
6) bis(2-Chloroethyl)ether	7.139	93	2145	0.401	ng		98
9) Naphthalene	10.551	128	5272	0.420	ng		100
10) Hexachlorobutadiene	10.840	225	1272	0.430	ng	#	97
12) 2-Methylnaphthalene	12.172	142	3367	0.421	ng		99
16) Acenaphthylene	14.067	152	4978	0.469	ng		99
17) Acenaphthene	14.420	154	3108	0.447	ng		99
18) Fluorene	15.403	166	4054	0.431	ng		99
20) 4,6-Dinitro-2-methylph...	15.499	198	311	0.439	ng		85
21) 4-Bromophenyl-phenylether	16.304	248	1135	0.436	ng	#	82
22) Hexachlorobenzene	16.416	284	1408	0.448	ng		94
23) Atrazine	16.577	200	1005	0.481	ng		95
24) Pentachlorophenol	16.764	266	942	0.657	ng		98
25) Phenanthrene	17.136	178	5745	0.461	ng		100
26) Anthracene	17.235	178	5301	0.471	ng		99
28) Fluoranthene	19.164	202	5883	0.420	ng		98
30) Pyrene	19.527	202	6026	0.470	ng		100
32) Benzo(a)anthracene	21.277	228	3958	0.434	ng		99
33) Chrysene	21.331	228	4801	0.482	ng		99
34) Bis(2-ethylhexyl)phtha...	21.205	149	2813	0.433	ng		97
36) Indeno(1,2,3-cd)pyrene	25.826	276	3886	0.476	ng		96
37) Benzo(b)fluoranthene	22.864	252	3639	0.442	ng		97
38) Benzo(k)fluoranthene	22.908	252	4097	0.475	ng		97
39) Benzo(a)pyrene	23.446	252	3391	0.489	ng		96
40) Dibenzo(a,h)anthracene	25.846	278	3209	0.505	ng		95
41) Benzo(g,h,i)perylene	26.516	276	3330	0.458	ng		98

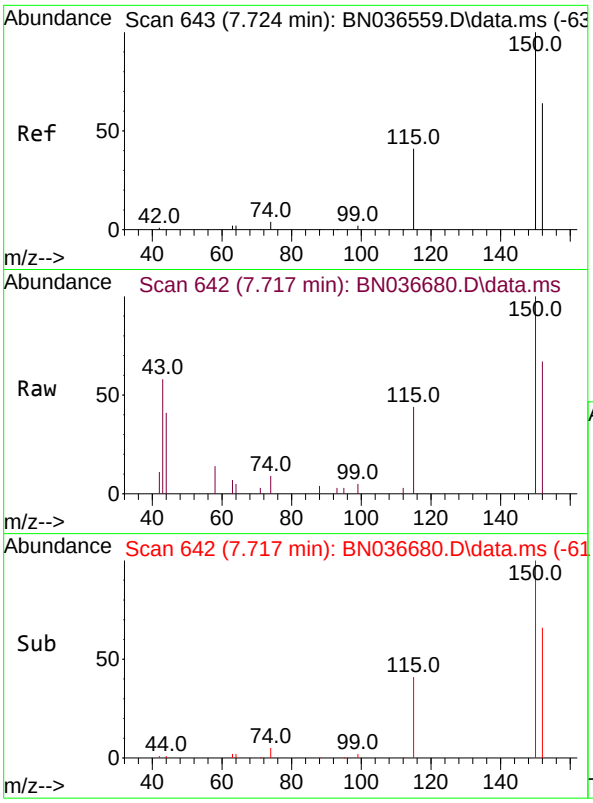
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031725\
Data File : BN036680.D
Acq On : 18 Mar 2025 04:16
Operator : RC/JU
Sample : PB167159BSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Quant Time: Mar 18 05:22:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



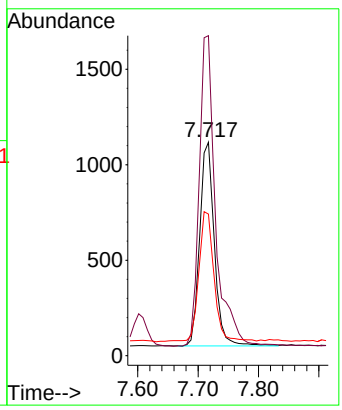


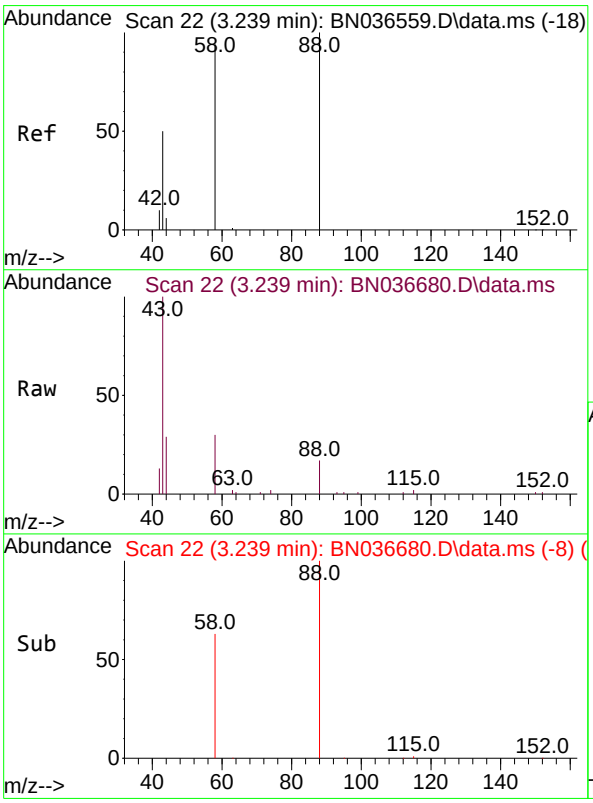
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:152 Resp: 1799

Ion	Ratio	Lower	Upper
152	100		
150	149.9	123.7	185.5
115	66.4	54.3	81.5

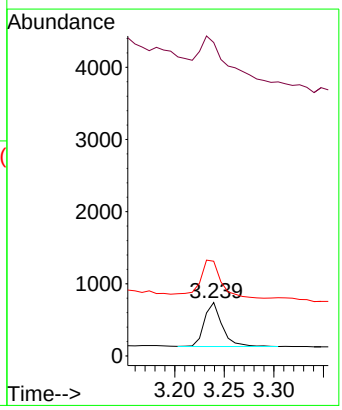


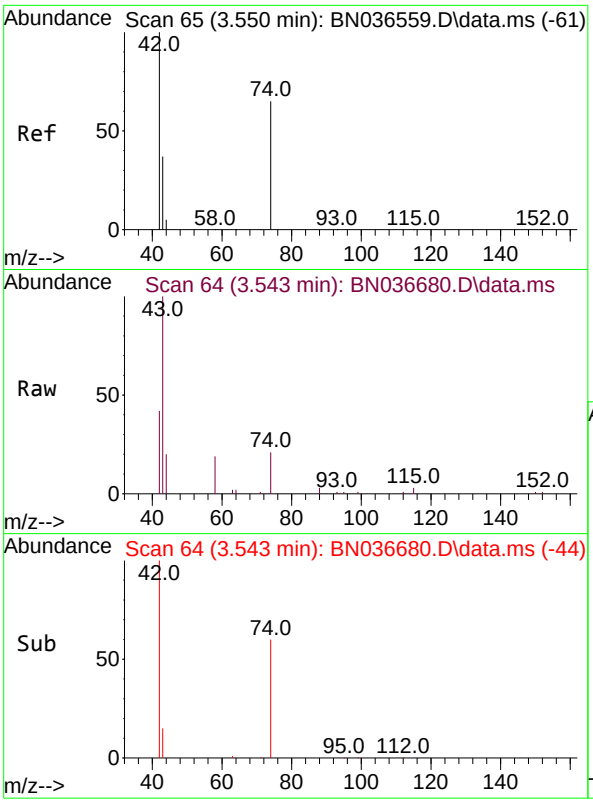


#2
1,4-Dioxane
Concen: 0.381 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 88 Resp: 760

Ion	Ratio	Lower	Upper
88	100		
43	153.4	37.8	56.8#
58	102.4	67.4	101.2#



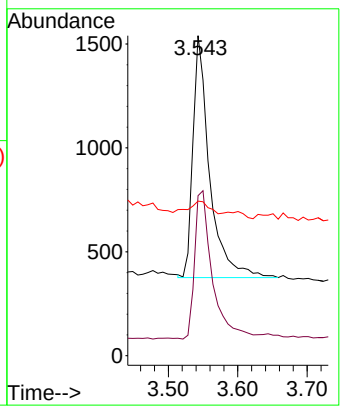


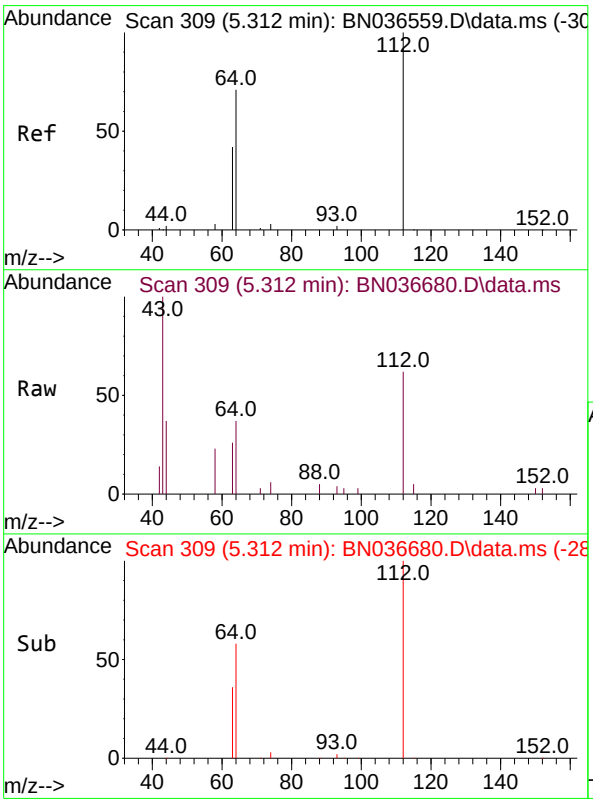
#3
n-Nitrosodimethylamine
Concen: 0.481 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion: 42 Resp: 1942

Ion	Ratio	Lower	Upper
42	100		
74	64.5	60.6	90.8
44	5.4	6.3	9.5#

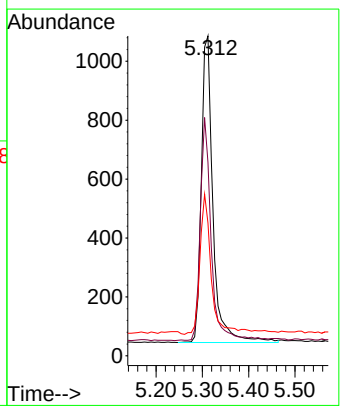


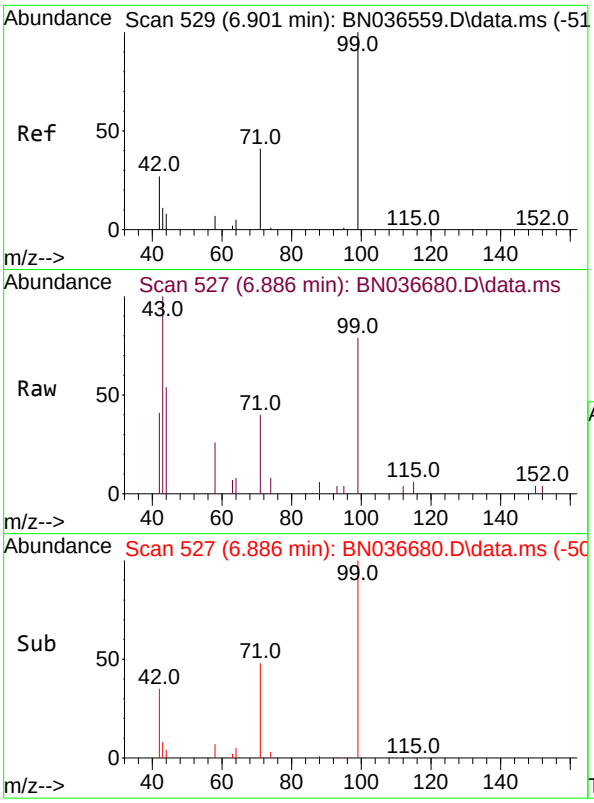


#4
2-Fluorophenol
Concen: 0.434 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:112 Resp: 1820

Ion	Ratio	Lower	Upper
112	100		
64	67.6	53.1	79.7
63	43.4	31.8	47.8



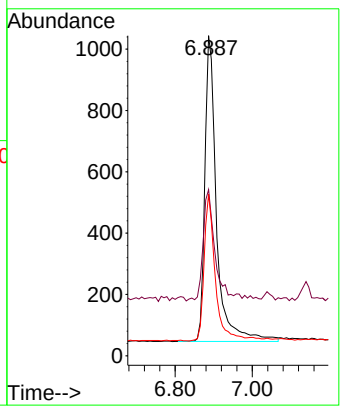


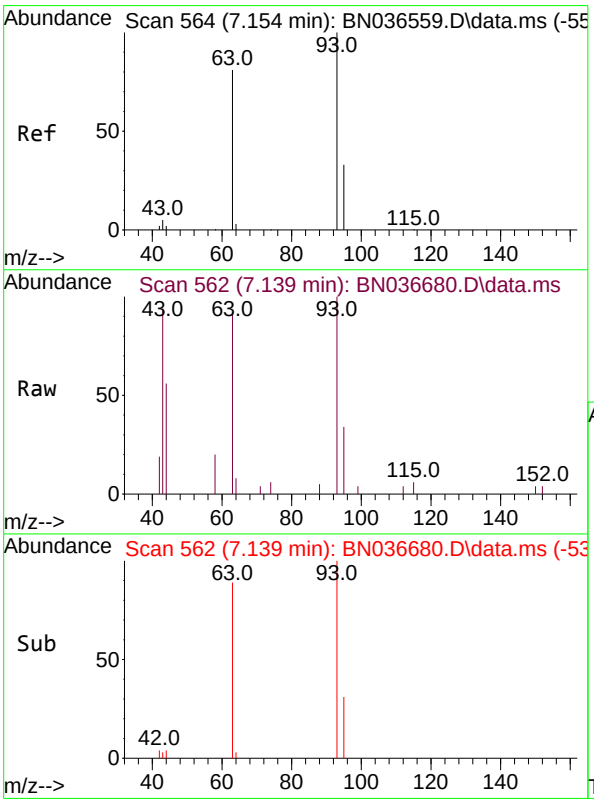
#5
Phenol-d6
Concen: 0.404 ng
RT: 6.886 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion: 99 Resp: 2092

Ion	Ratio	Lower	Upper
99	100		
42	36.4	26.5	39.7
71	45.5	34.1	51.1

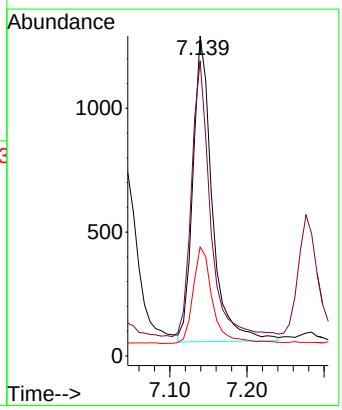


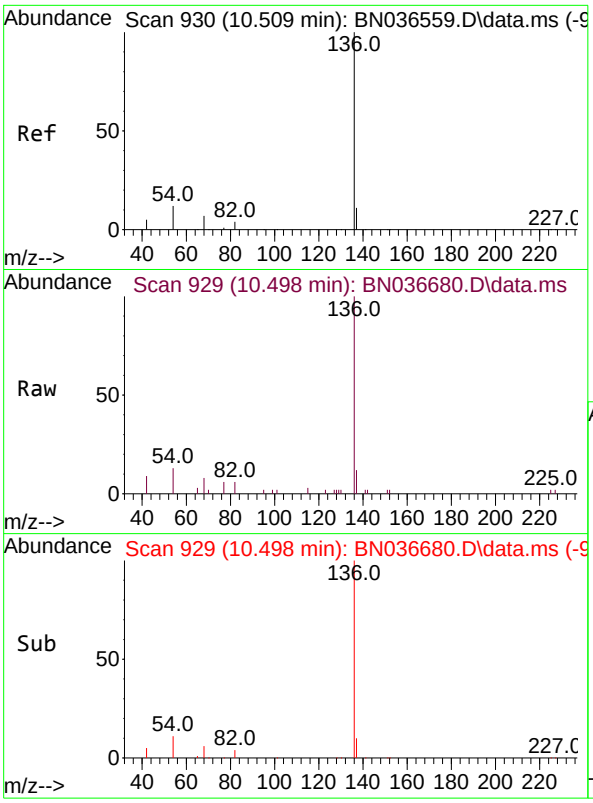


#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.014 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 93 Resp: 2145

Ion	Ratio	Lower	Upper
93	100		
63	87.1	67.7	101.5
95	32.2	25.6	38.4



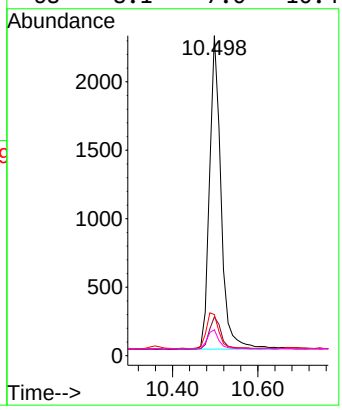


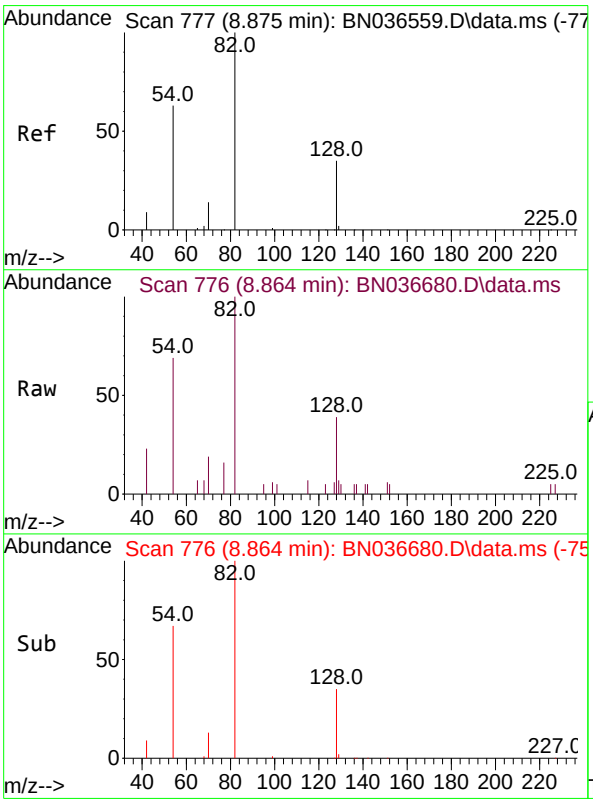
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:136 Resp: 4271

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	12.9	11.5	17.3
68	8.1	7.0	10.4

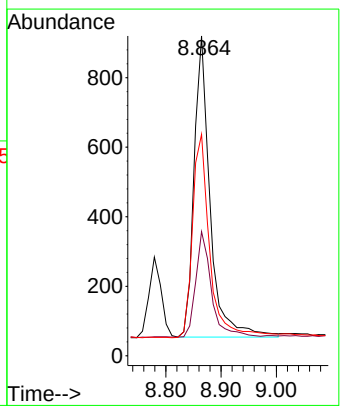


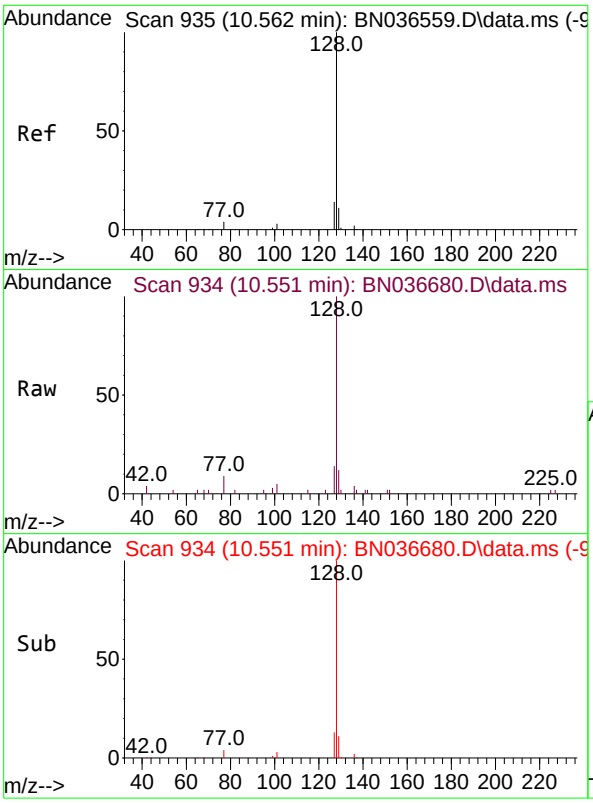


#8
Nitrobenzene-d5
Concen: 0.375 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion: 82 Resp: 1743

Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.6	45.8
54	69.2	52.2	78.4



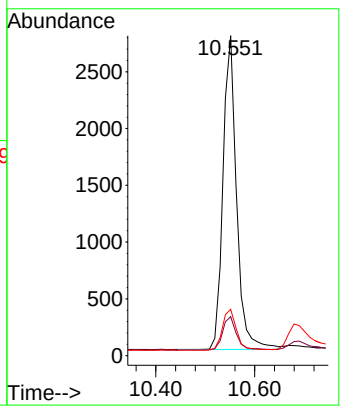


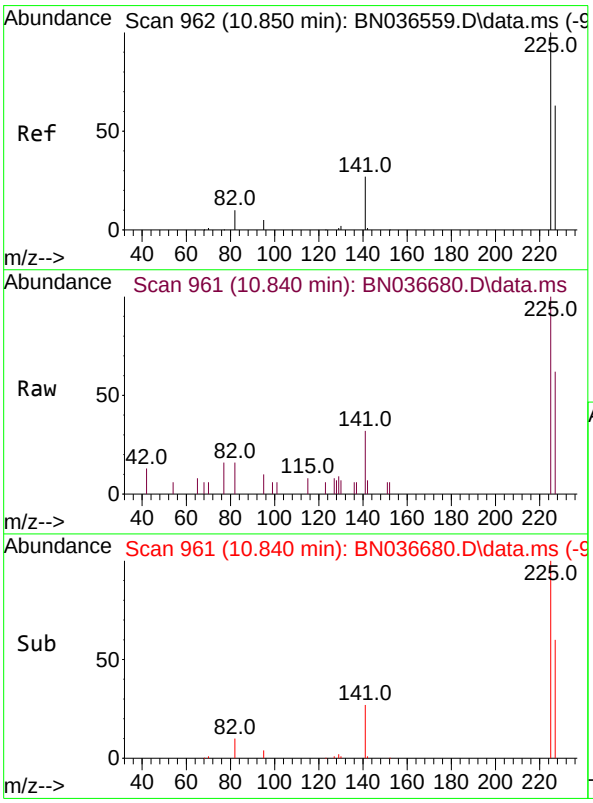
#9
Naphthalene
Concen: 0.420 ng
RT: 10.551 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:128 Resp: 5272

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.5	11.8	17.8

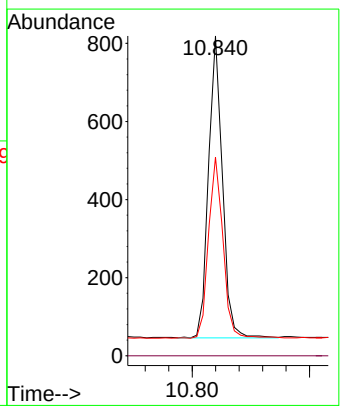


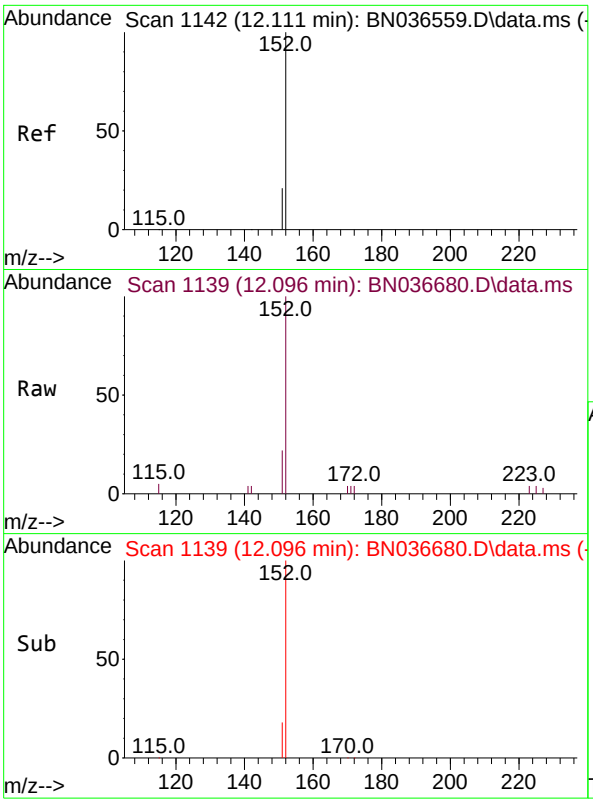


#10
Hexachlorobutadiene
Concen: 0.430 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:225 Resp: 1272

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.7	51.8	77.8



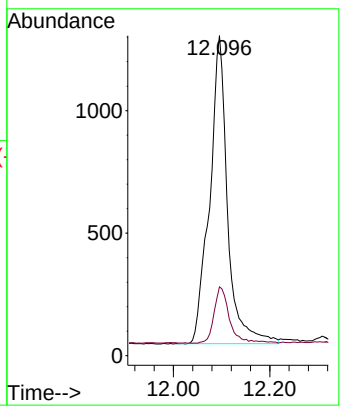


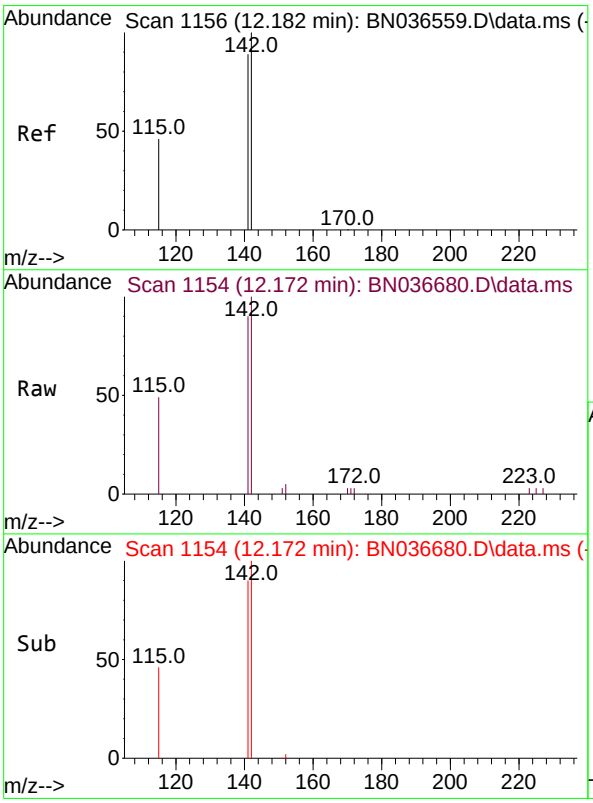
#11
2-Methylnaphthalene-d10
Concen: 0.510 ng
RT: 12.096 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:152 Resp: 3241

Ion	Ratio	Lower	Upper
152	100		
151	15.9	17.0	25.6#

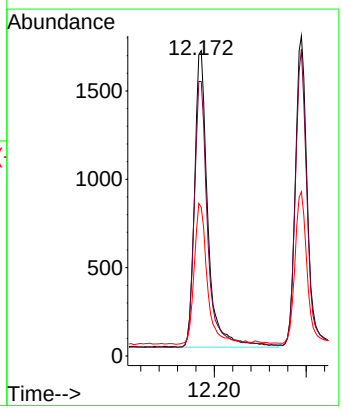


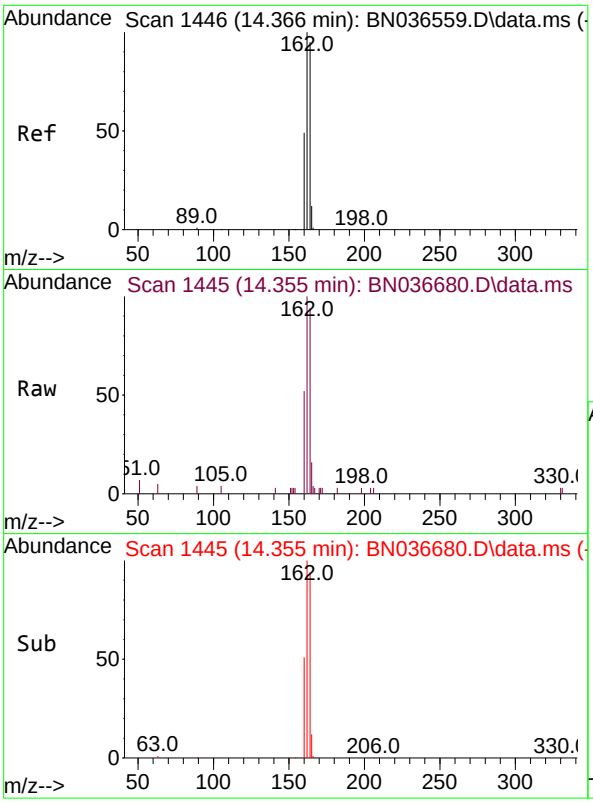


#12
2-Methylnaphthalene
Concen: 0.421 ng
RT: 12.172 min Scan# 1154
Delta R.T. -0.010 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:142 Resp: 3367

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.7	107.5
115	48.7	38.3	57.5



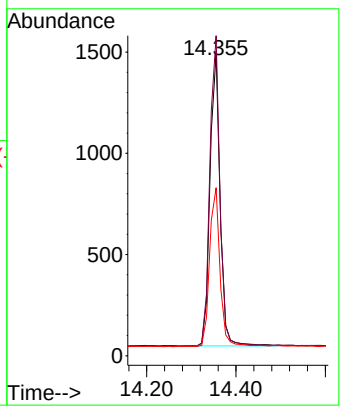


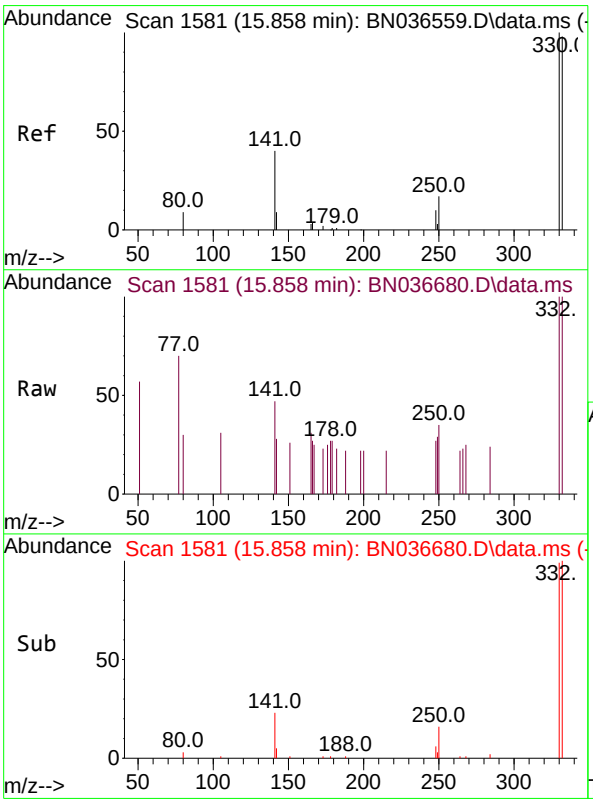
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:164 Resp: 2251

Ion	Ratio	Lower	Upper
164	100		
162	106.0	84.2	126.2
160	55.7	42.2	63.2

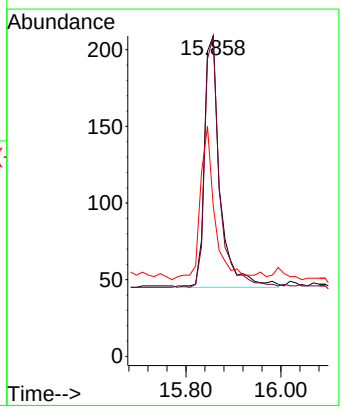


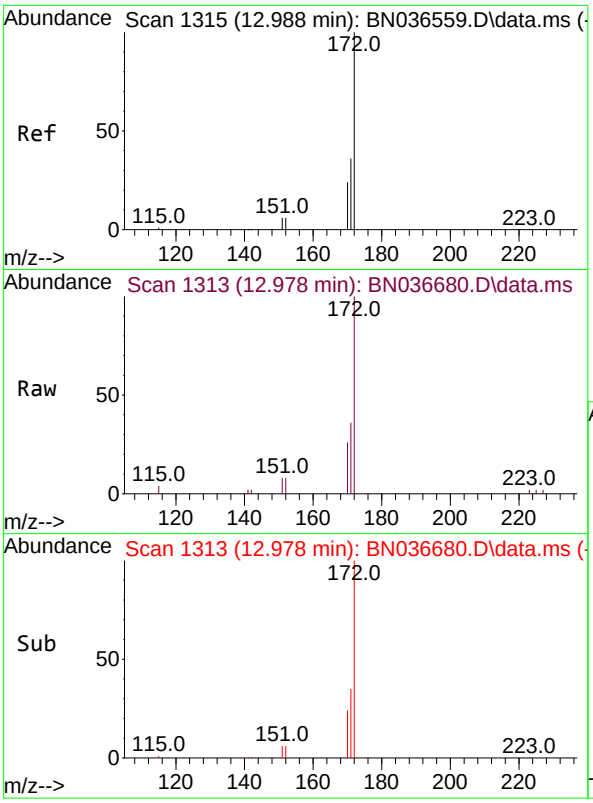


#14
2,4,6-Tribromophenol
Concen: 0.368 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:330 Resp: 376

Ion	Ratio	Lower	Upper
330	100		
332	95.7	75.2	112.8
141	56.4	43.4	65.2



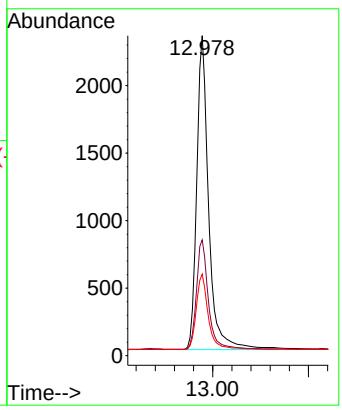


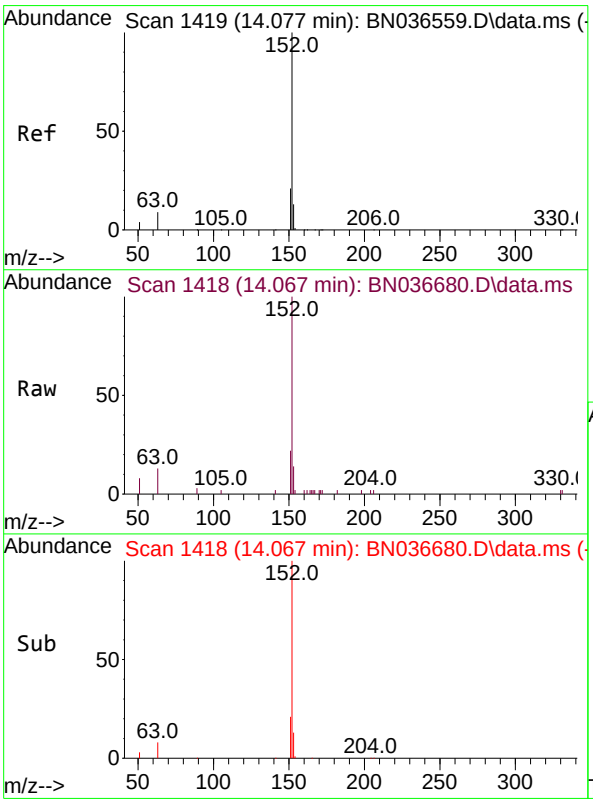
#15
2-Fluorobiphenyl
Concen: 0.434 ng
RT: 12.978 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:172 Resp: 5679

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.5	44.3
170	25.5	20.2	30.4

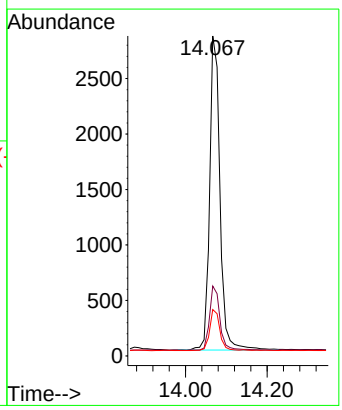


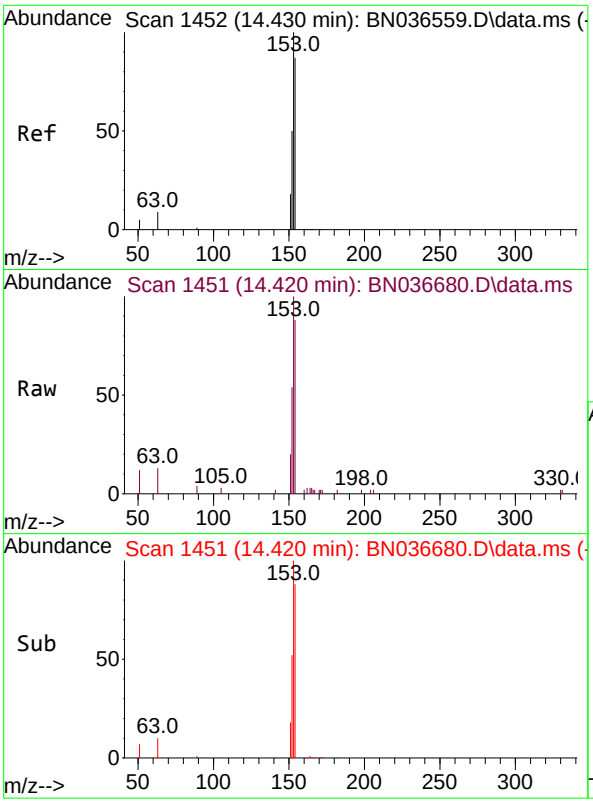


#16
Acenaphthylene
Concen: 0.469 ng
RT: 14.067 min Scan# 1418
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:152 Resp: 4978

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.4
153	13.2	10.6	15.8



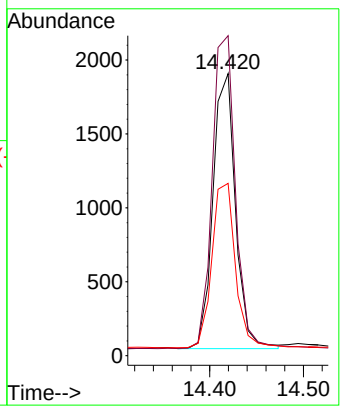


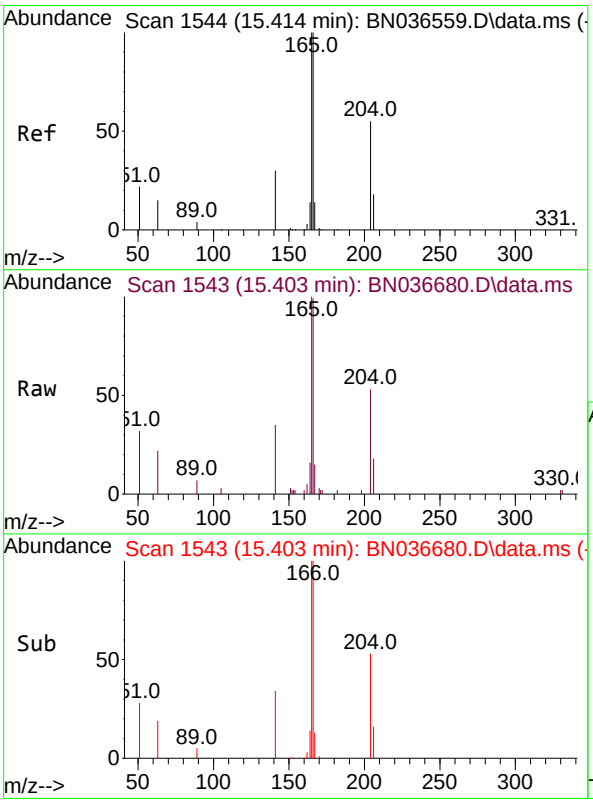
#17
Acenaphthene
Concen: 0.447 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:154 Resp: 3108

Ion	Ratio	Lower	Upper
154	100		
153	118.5	94.1	141.1
152	62.8	49.8	74.6

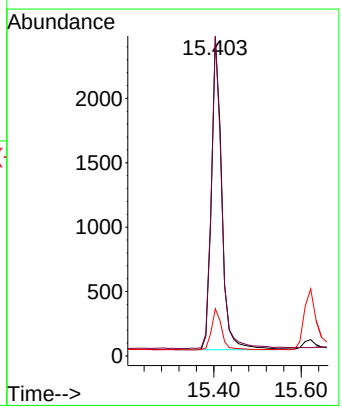


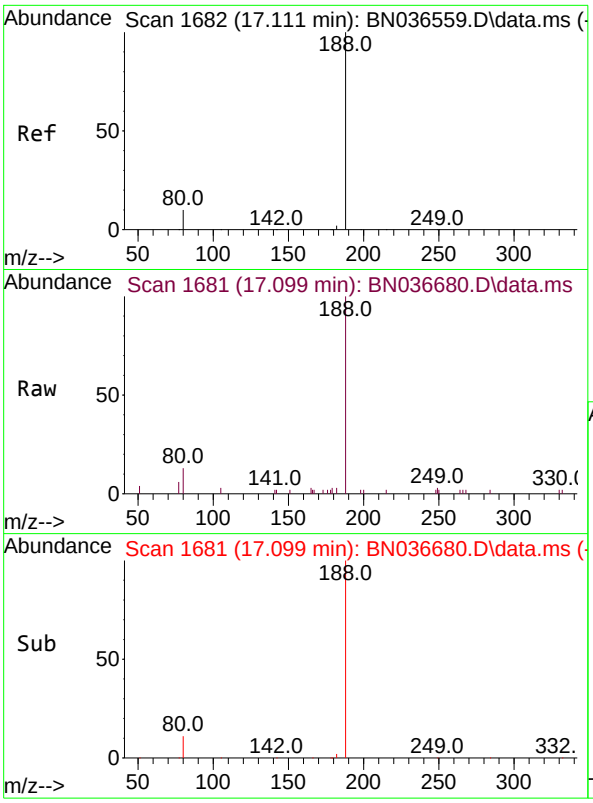


#18
Fluorene
Concen: 0.431 ng
RT: 15.403 min Scan# 1543
Delta R.T. -0.011 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:166 Resp: 4054

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.8	119.8
167	13.2	10.6	15.8



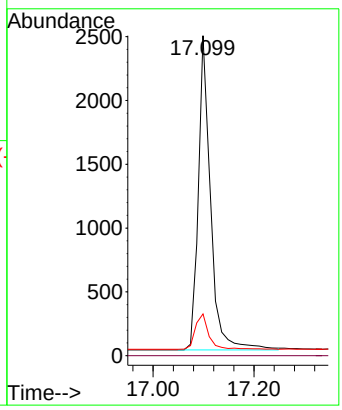


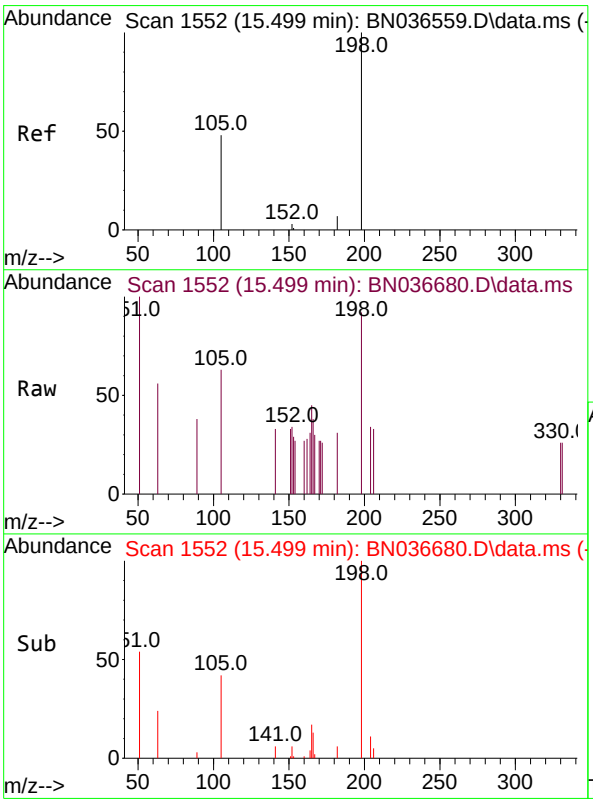
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:188 Resp: 4157

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.0	8.8	13.2

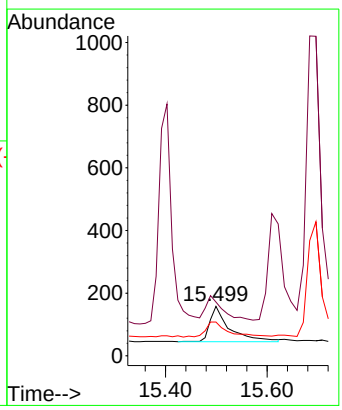


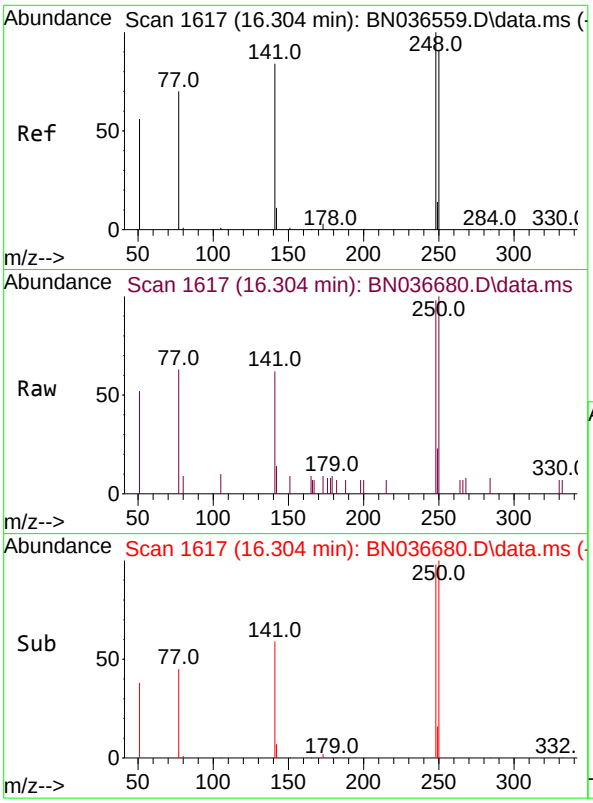


#20
4,6-Dinitro-2-methylphenol
Concen: 0.439 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:198 Resp: 311

Ion	Ratio	Lower	Upper
198	100		
51	108.9	107.9	161.9
105	68.4	56.2	84.2



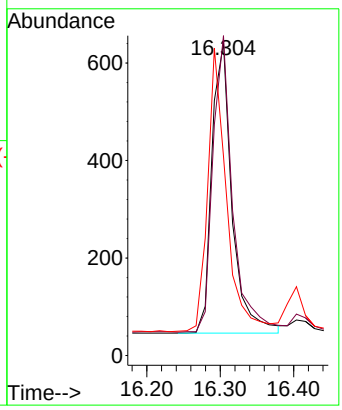


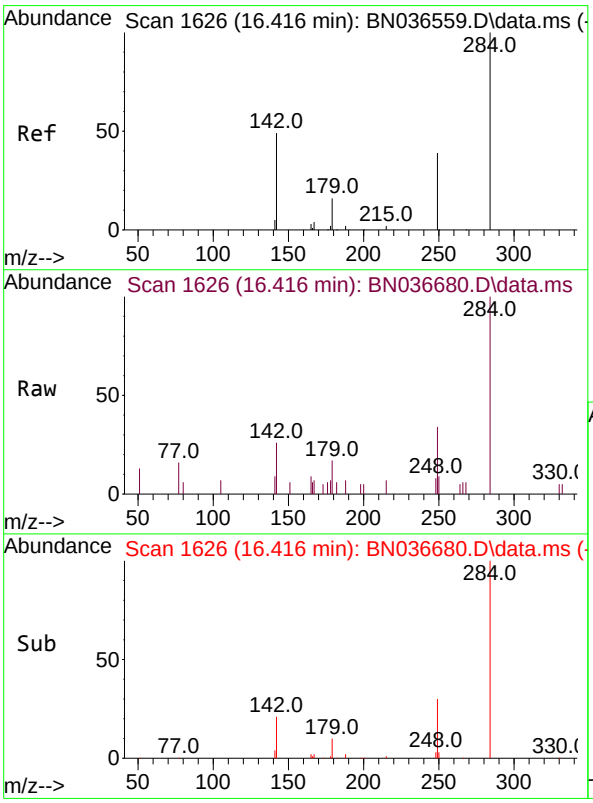
#21
4-Bromophenyl-phenylether
Concen: 0.436 ng
RT: 16.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:248 Resp: 1135

Ion	Ratio	Lower	Upper
248	100		
250	102.3	73.0	109.6
141	63.8	68.6	103.0#

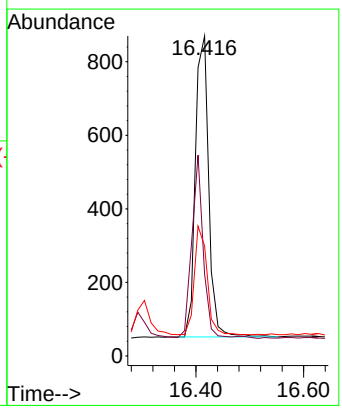


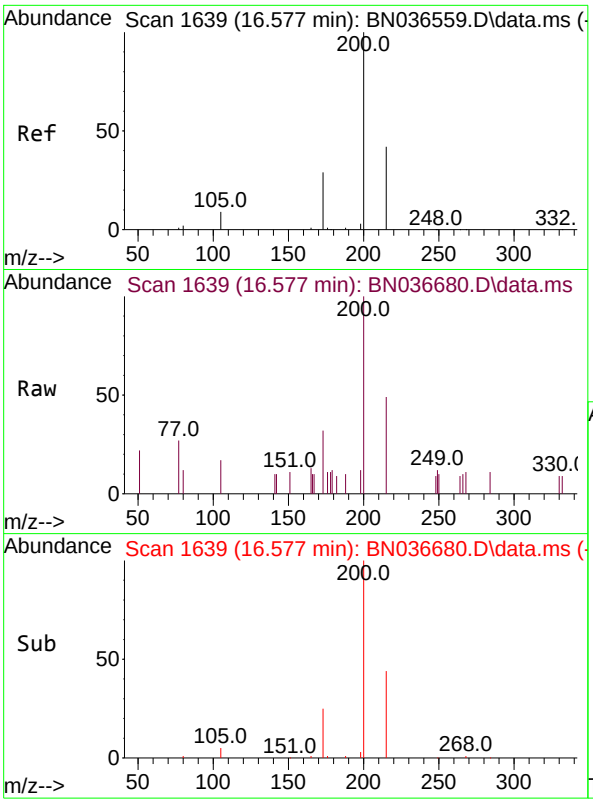


#22
Hexachlorobenzene
Concen: 0.448 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:284 Resp: 1408

Ion	Ratio	Lower	Upper
284	100		
142	52.8	37.0	55.4
249	35.0	28.1	42.1



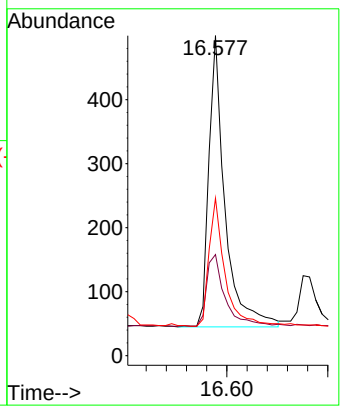


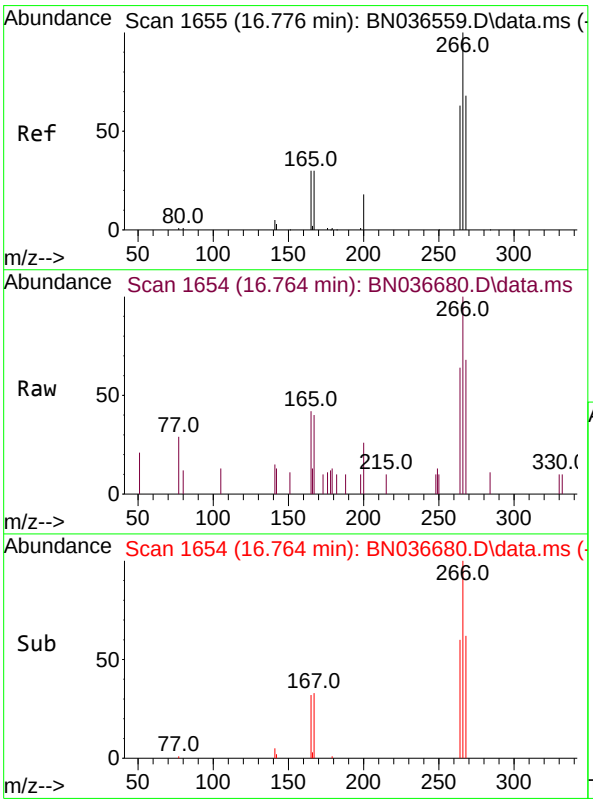
#23
Atrazine
Concen: 0.481 ng
RT: 16.577 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:200 Resp: 1005

Ion	Ratio	Lower	Upper
200	100		
173	31.6	27.3	40.9
215	49.2	36.8	55.2

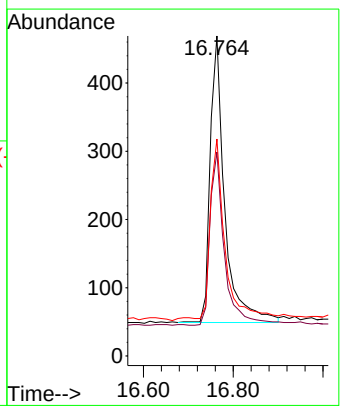


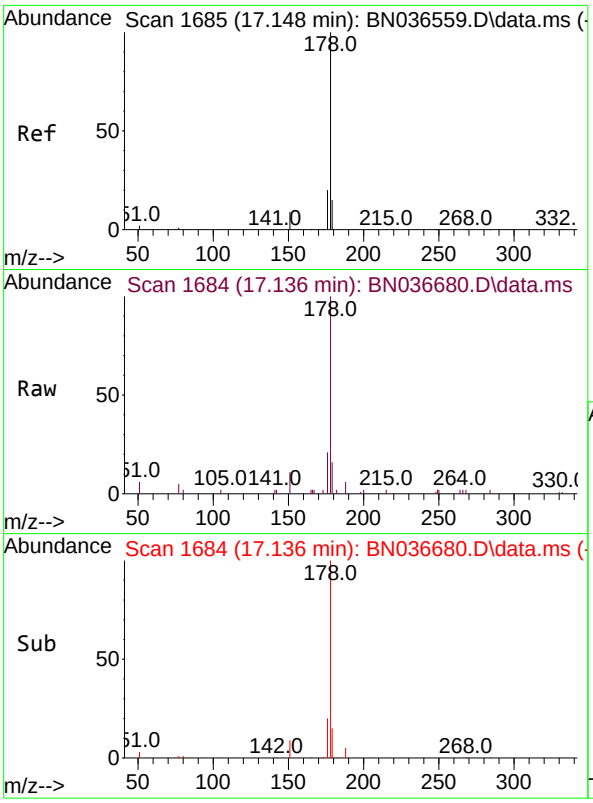


#24
Pentachlorophenol
Concen: 0.657 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:266 Resp: 942

Ion	Ratio	Lower	Upper
266	100		
264	60.7	49.6	74.4
268	61.6	50.9	76.3



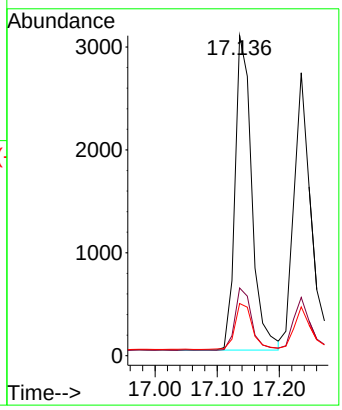


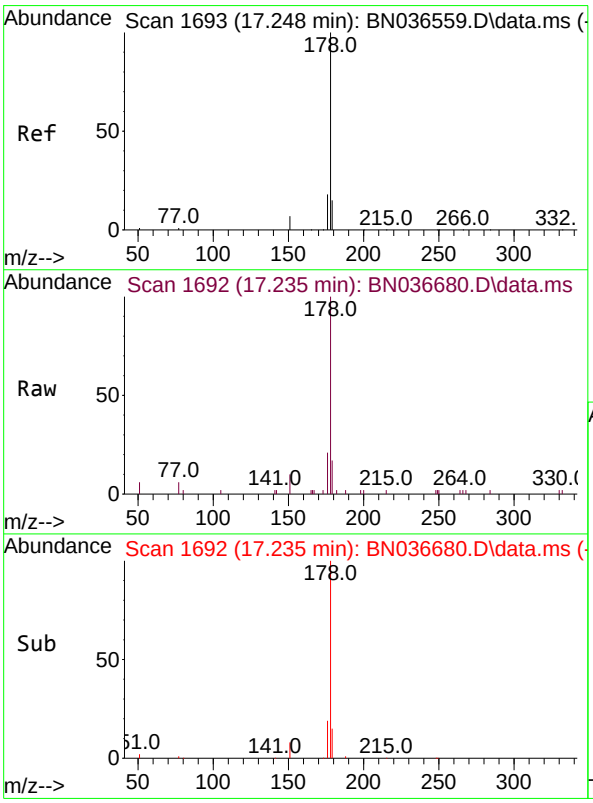
#25
Phenanthrene
Concen: 0.461 ng
RT: 17.136 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:178 Resp: 5745

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.2	12.2	18.4

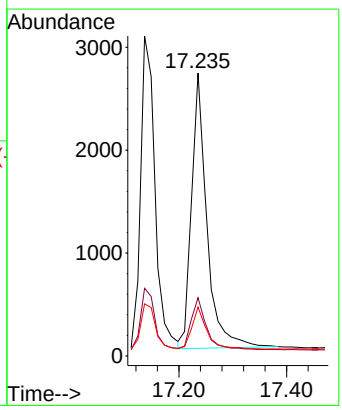


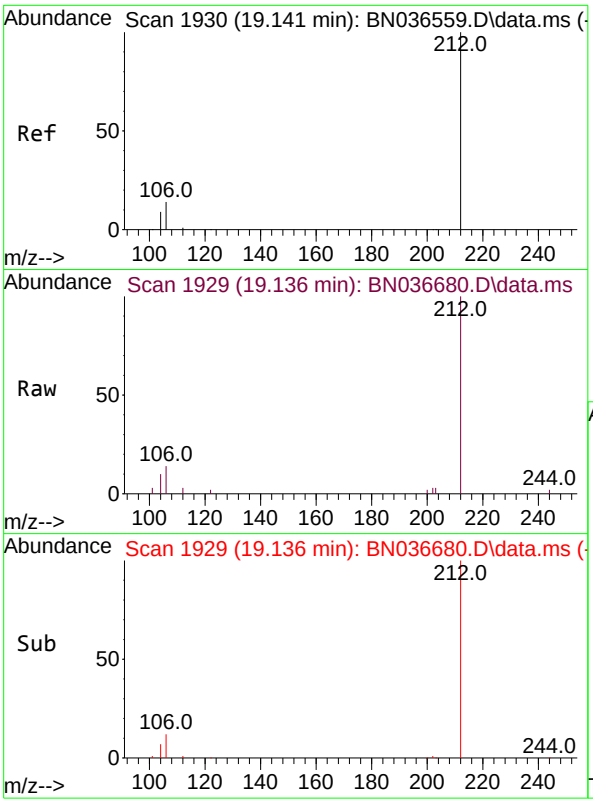


#26
Anthracene
Concen: 0.471 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:178 Resp: 5301

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.1	12.6	18.8



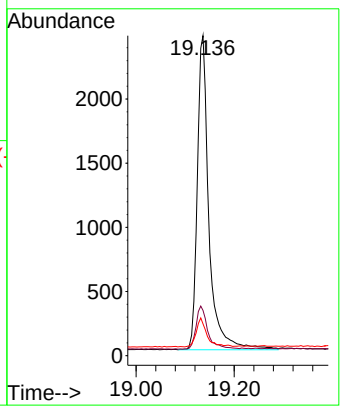


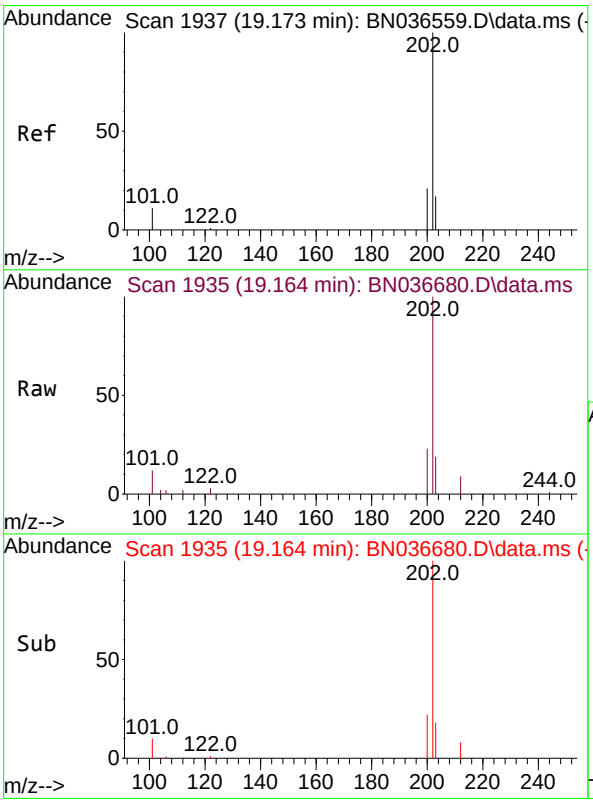
#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 19.136 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:212 Resp: 4030

Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.5	7.3	10.9

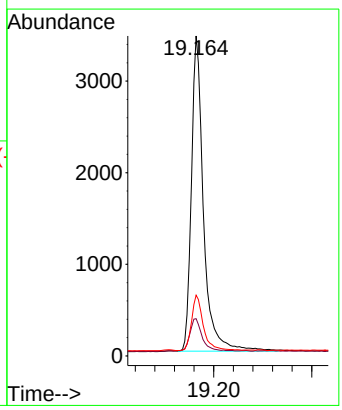


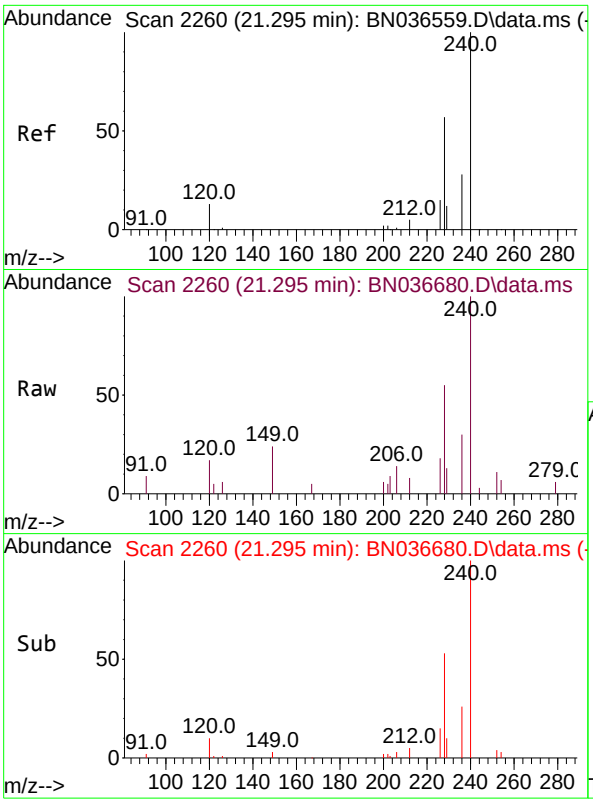


#28
Fluoranthene
Concen: 0.420 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:202 Resp: 5883

Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	17.0	13.5	20.3



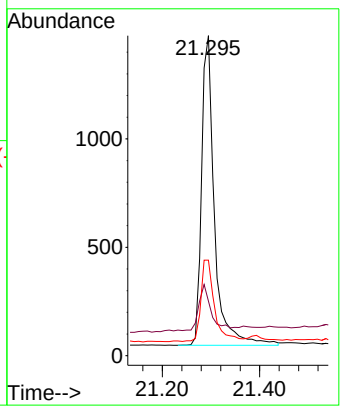


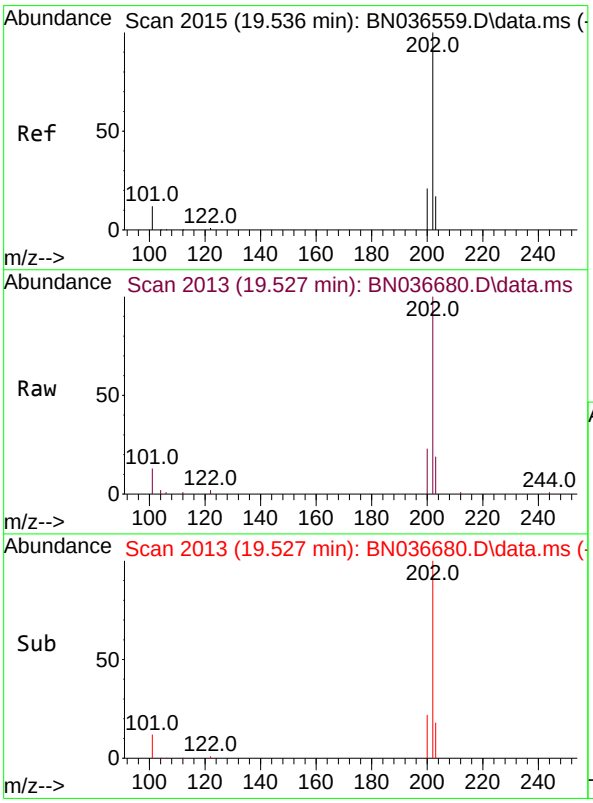
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:240 Resp: 2623

Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.6	22.0
236	29.9	24.1	36.1

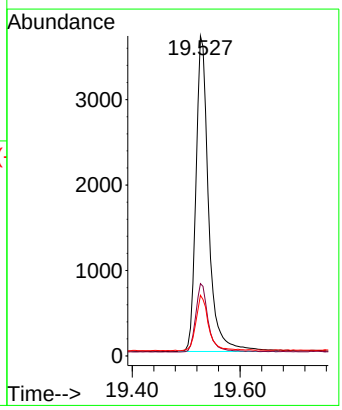


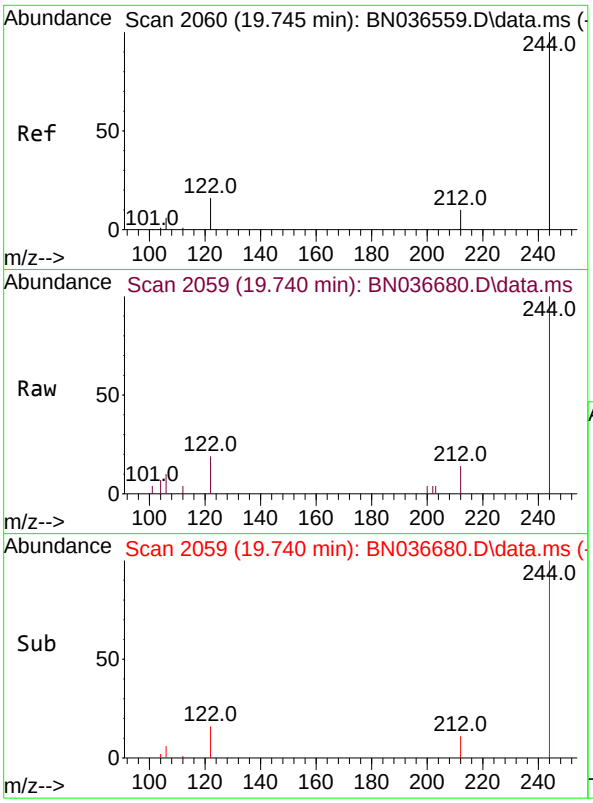


#30
Pyrene
Concen: 0.470 ng
RT: 19.527 min Scan# 2013
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:202 Resp: 6026

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



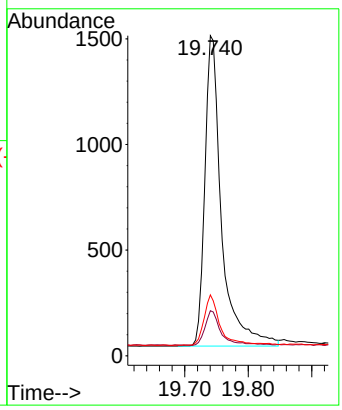


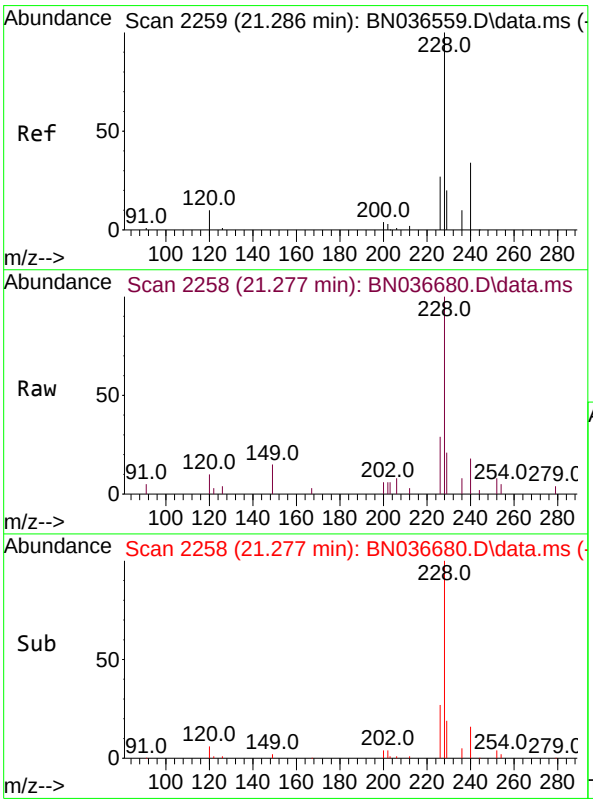
#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.740 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:244 Resp: 2694

Ion	Ratio	Lower	Upper
244	100		
212	14.1	9.6	14.4
122	19.0	13.9	20.9

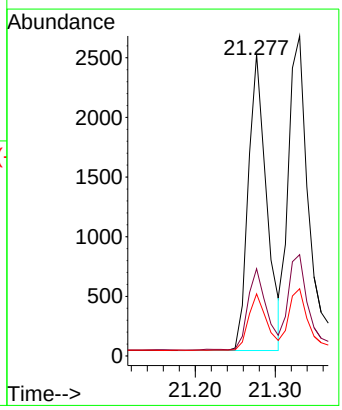


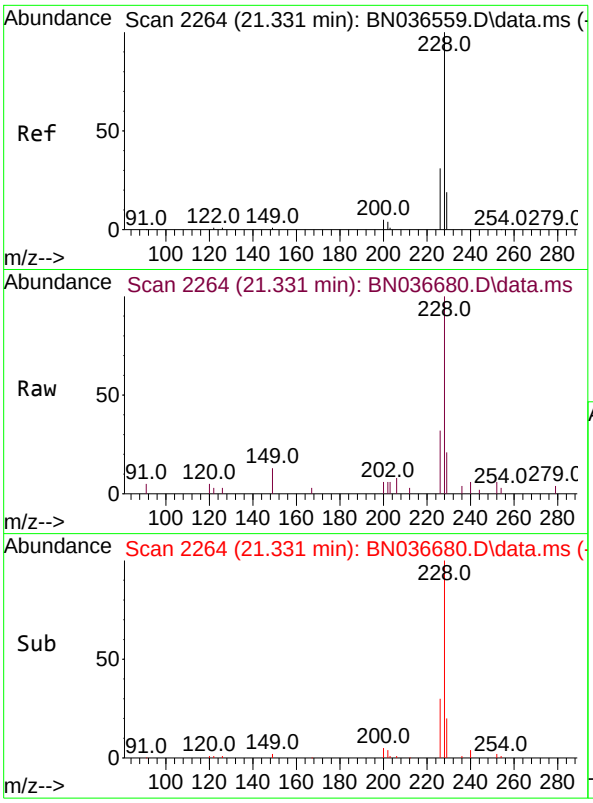


#32
Benzo(a)anthracene
Concen: 0.434 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:228 Resp: 3958

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	20.6	16.6	25.0



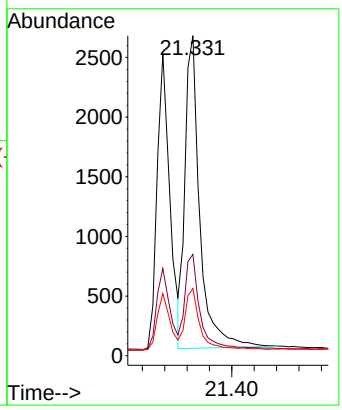


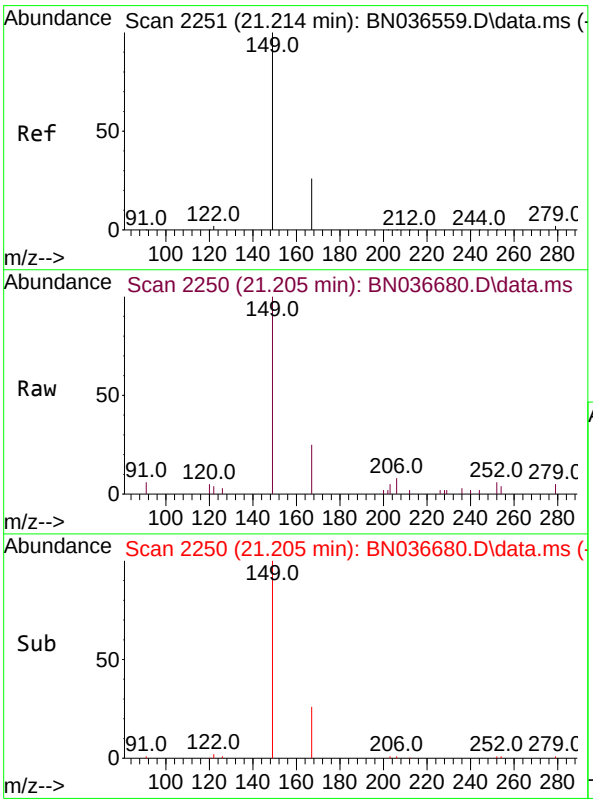
#33
Chrysene
Concen: 0.482 ng
RT: 21.331 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:228 Resp: 4801

Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.3	37.9
229	21.0	15.8	23.8

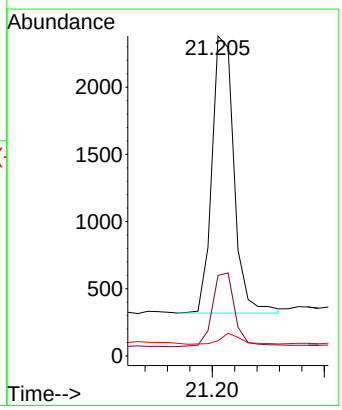


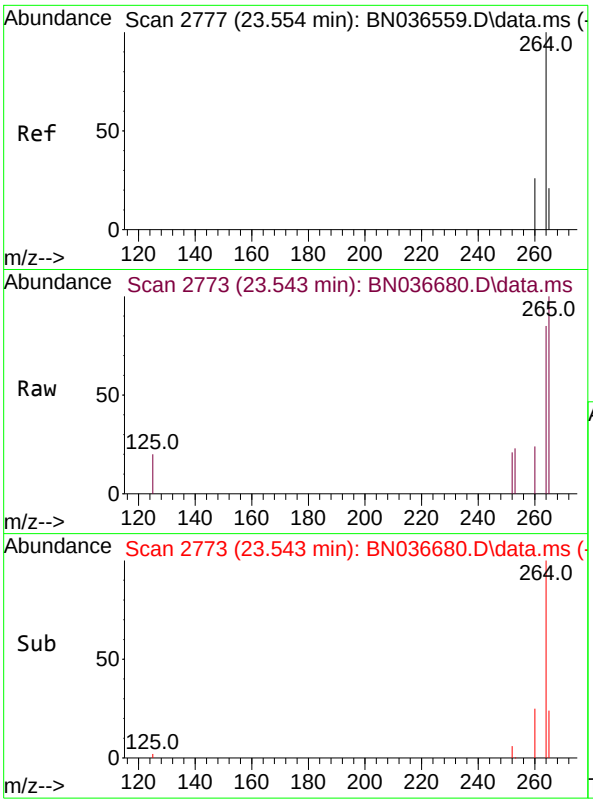


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.433 ng
RT: 21.205 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:149 Resp: 2813

Ion	Ratio	Lower	Upper
149	100		
167	27.7	20.7	31.1
279	3.8	3.6	5.4



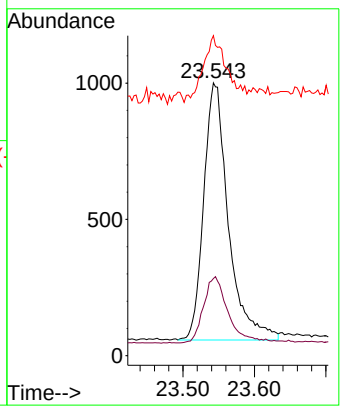


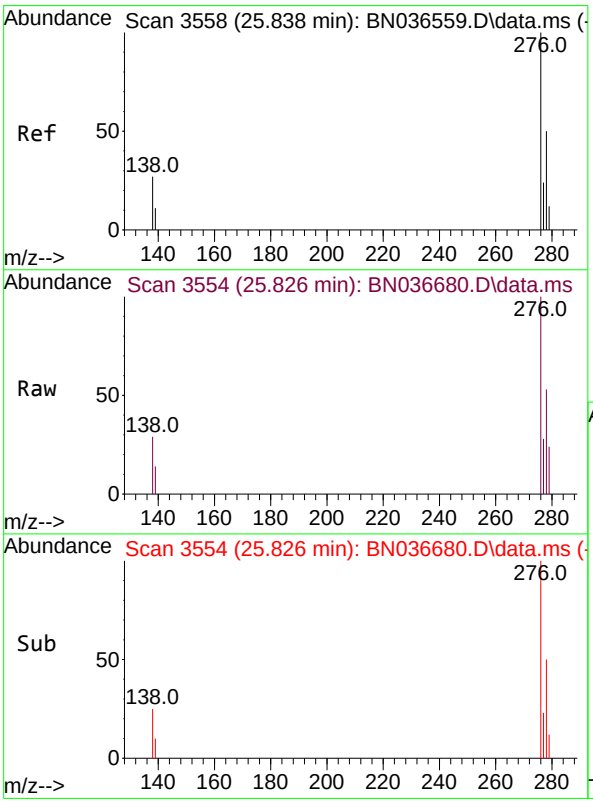
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.543 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:264 Resp: 2261

Ion	Ratio	Lower	Upper
264	100		
260	28.3	22.6	33.8
265	117.3	88.1	132.1

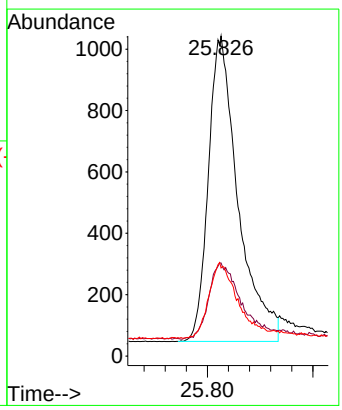


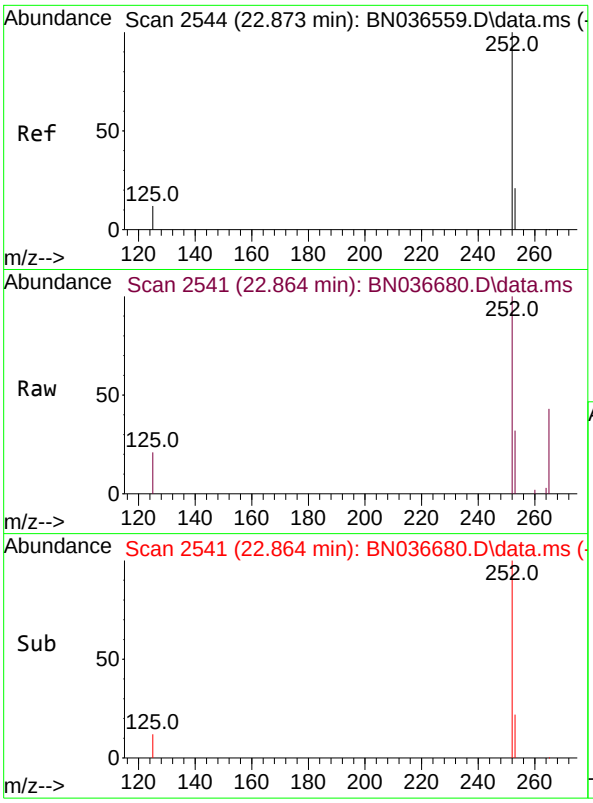


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.476 ng
RT: 25.826 min Scan# 3554
Delta R.T. -0.012 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:276 Resp: 3886

Ion	Ratio	Lower	Upper
276	100		
138	26.2	23.4	35.2
277	24.2	20.0	30.0



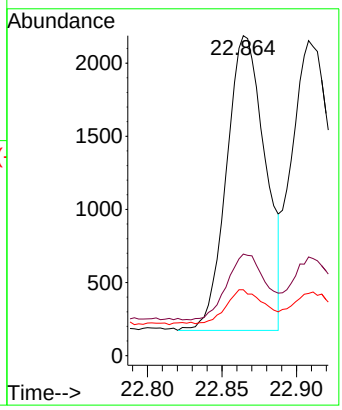


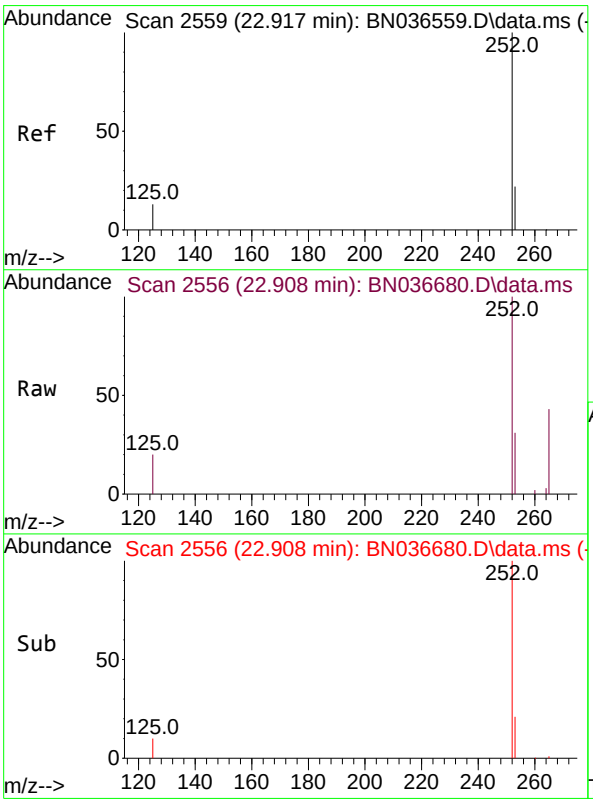
#37
Benzo(b)fluoranthene
Concen: 0.442 ng
RT: 22.864 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:252 Resp: 3639

Ion	Ratio	Lower	Upper
252	100		
253	31.7	23.9	35.9
125	20.6	17.4	26.2

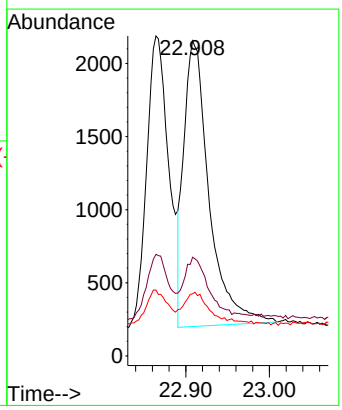


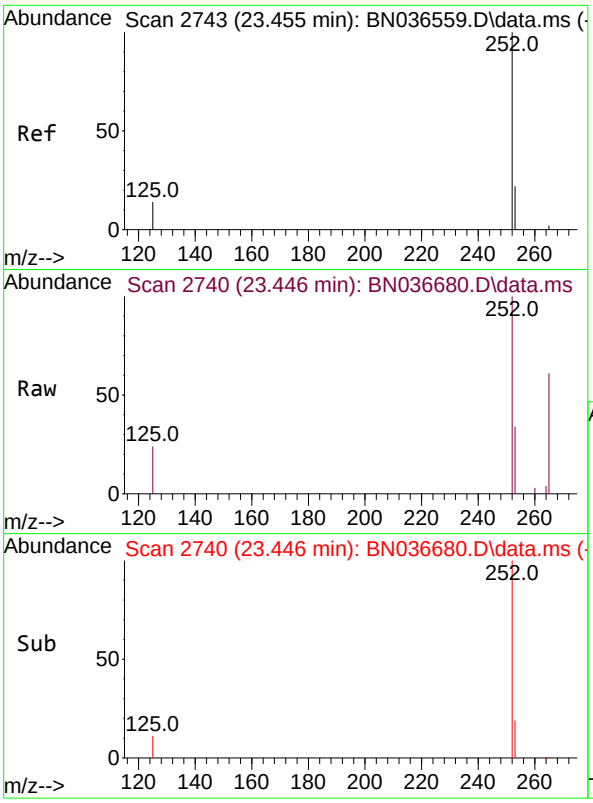


#38
Benzo(k)fluoranthene
Concen: 0.475 ng
RT: 22.908 min Scan# 2556
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:252 Resp: 4097

Ion	Ratio	Lower	Upper
252	100		
253	31.3	24.6	36.8
125	19.7	17.8	26.8



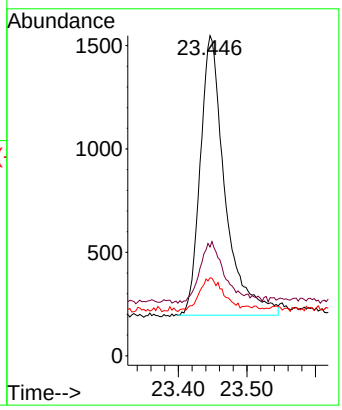


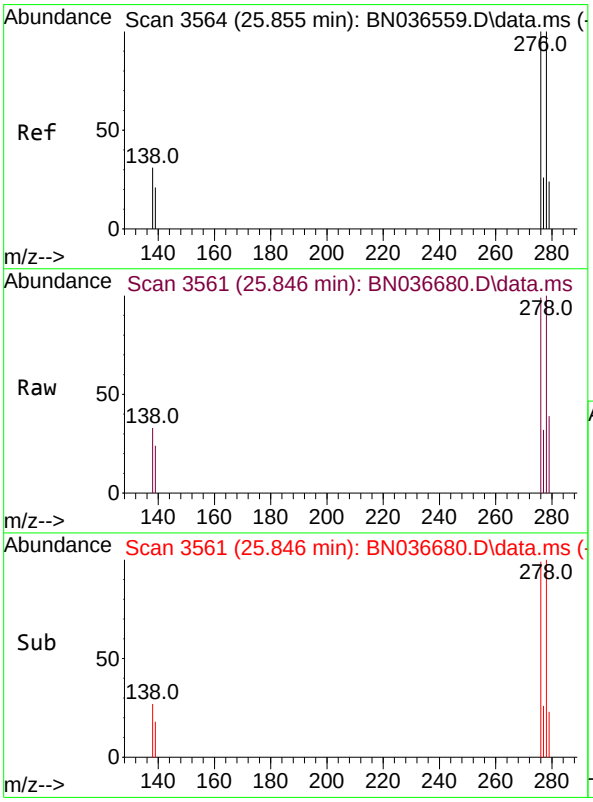
#39
Benzo(a)pyrene
Concen: 0.489 ng
RT: 23.446 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:252 Resp: 3391

Ion	Ratio	Lower	Upper
252	100		
253	34.0	27.8	41.8
125	24.4	22.7	34.1

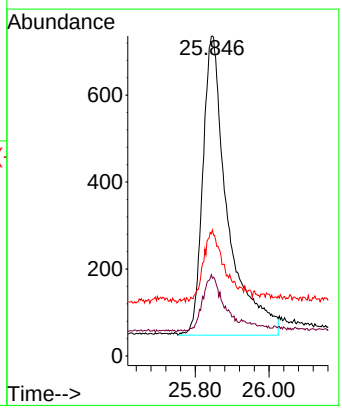


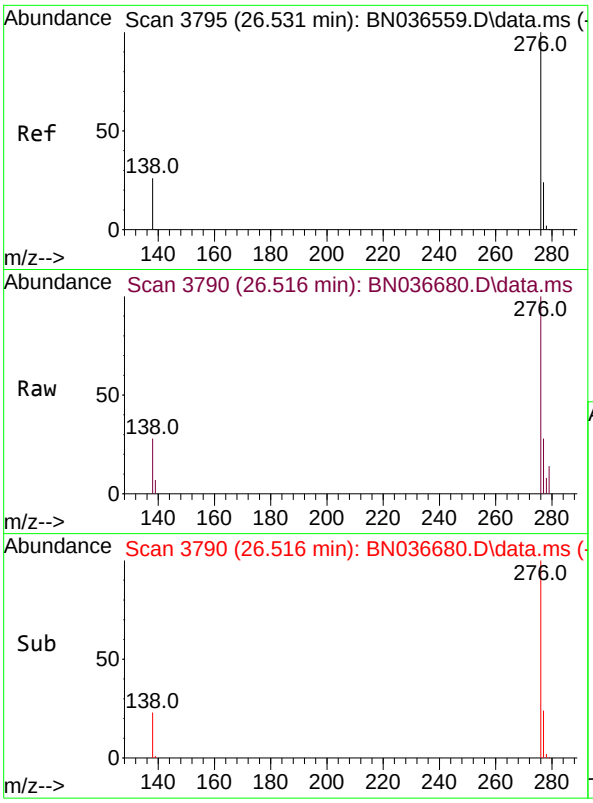


#40
Dibenzo(a,h)anthracene
Concen: 0.505 ng
RT: 25.846 min Scan# 3561
Delta R.T. -0.009 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Tgt Ion:278 Resp: 3209

Ion	Ratio	Lower	Upper
278	100		
139	24.3	20.8	31.2
279	39.4	28.8	43.2





#41
Benzo(g,h,i)perylene
Concen: 0.458 ng
RT: 26.516 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN036680.D
Acq: 18 Mar 2025 04:16

Instrument :
BNA_N
ClientSampleId :
PB167159BSD

Tgt Ion:276 Resp: 3330

Ion	Ratio	Lower	Upper
276	100		
277	28.4	22.2	33.4
138	28.2	24.1	36.1

