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Cover Page

Order ID : Q2375

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q2375-01	RW8-SP100-20250619
Q2375-02	RW8-SP303-20250619

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

Signature : _____

Date: 6/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager # Ernie Wu
Order ID # Q2375
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
2 Water samples were received on 06/19/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Metals Group4, SVOC-SIMGroup1, TDS and TSS. 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.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BN037403.D met the requirements except for 2,4,6-Tribromophenol ,The Failure Surrogate is not Associated with DOD Parameter list,Therefore no Corrective Action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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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_____

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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

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

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

ORDER ID: Q2375 MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements .			
	The Continuous Calibration File ID BN037403.D met the requirements except for 2,4,6-Tribromophenol ,The Failure Surrogate is not Associated with DOD Parameter list,Therefore no Corrective Action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples .			
	The Blank Spike Duplicate met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

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

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

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

ADDITIONAL COMMENTS:

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

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

The not QT review data is reported in the Miscellaneous.

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

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2375**

	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:** **06/30/2025**

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LAB CHRONICLE

OrderID:	Q2375	**OrderDate:**	6/19/2025 3:57:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	D51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2375-01	**RW8-SP100-20250619**	**Water**			**06/19/25**			**06/19/25**
			SVOC-SIMGroup1	8270-Modified		06/20/25	06/27/25	
Q2375-02	**RW8-SP303-20250619**	**Water**			**06/19/25**			**06/19/25**
			SVOC-SIMGroup1	8270-Modified		06/20/25	06/27/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2375

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :									
				0.000					
			Total Svoc :		**0.00**				
			Total Concentration:		**0.00**				

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2375

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168563BL	PB168563BL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB168563BS	PB168563BS	2-Methylnaphthalene-d10	0.4	0.49	123		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
PB168563BSD	PB168563BSD	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q2375-01	RW8-SP100-20250619	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.45	112		58	132
Q2375-02	RW8-SP303-20250619	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.46	116		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2375

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037363.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168563BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2375

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037364.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168563BSD	1,4-Dioxane	0.4	0.30	ug/L	75	6			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168563BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

Lab File ID: BN037361.D Lab Sample ID: PB168563BL

Instrument ID: BNA_N Date Extracted: 06/20/2025

Matrix: (soil/water) Water Date Analyzed: 06/20/2025

Level: (low/med) LOW Time Analyzed: 22:16

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168563BS	PB168563BS	BN037363.D	06/20/2025
PB168563BSD	PB168563BSD	BN037364.D	06/21/2025
RW8-SP100-20250619	Q2375-01	BN037413.D	06/27/2025
RW8-SP303-20250619	Q2375-02	BN037414.D	06/27/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2375 SDG NO.: Q2375

Lab File ID: BN037351.D DFTPP Injection Date: 06/20/2025

Instrument ID: BNA_N DFTPP Injection Time: 15:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.7) 1
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
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	85.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (20) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037353.D	06/20/2025	16:51
SSTDICC0.2	SSTDICC0.2	BN037354.D	06/20/2025	17:27
SSTDICCC0.4	SSTDICCC0.4	BN037355.D	06/20/2025	18:03
SSTDICC0.8	SSTDICC0.8	BN037356.D	06/20/2025	18:39
SSTDICC1.6	SSTDICC1.6	BN037357.D	06/20/2025	19:15
SSTDICC3.2	SSTDICC3.2	BN037358.D	06/20/2025	19:51
SSTDICC5.0	SSTDICC5.0	BN037359.D	06/20/2025	20:27
PB168563BL	PB168563BL	BN037361.D	06/20/2025	22:16
PB168563BS	PB168563BS	BN037363.D	06/20/2025	23:28
PB168563BSD	PB168563BSD	BN037364.D	06/21/2025	00:04
SSTDCCC0.4EC	SSTDCCC0.4	BN037365.D	06/21/2025	01:17

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2375 SDG NO.: Q2375

Lab File ID: BN037385.D DFTPP Injection Date: 06/26/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	78.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037386.D	06/26/2025	10:41
SSTDICC0.2	SSTDICC0.2	BN037387.D	06/26/2025	11:17
SSTDICCC0.4	SSTDICCC0.4	BN037388.D	06/26/2025	11:53
SSTDICC0.8	SSTDICC0.8	BN037389.D	06/26/2025	12:29
SSTDICC1.6	SSTDICC1.6	BN037390.D	06/26/2025	13:05
SSTDICC3.2	SSTDICC3.2	BN037391.D	06/26/2025	13:41
SSTDICC5.0	SSTDICC5.0	BN037392.D	06/26/2025	14:17

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2375 SDG NO.: Q2375

Lab File ID: BN037402.D DFTPP Injection Date: 06/26/2025

Instrument ID: BNA_N DFTPP Injection Time: 20:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.5) 1
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	7.3
365	Greater than 1% of mass 198	6.1
441	Present, but less than mass 443	83.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.7 (19) 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	BN037403.D	06/26/2025	21:38
RW8-SP100-20250619	Q2375-01	BN037413.D	06/27/2025	03:41
RW8-SP303-20250619	Q2375-02	BN037414.D	06/27/2025	04:18
SSTDCCC0.4EC	SSTDCCC0.4	BN037415.D	06/27/2025	04:54

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/20/2025

Lab File ID: BN037355.D Time Analyzed: 18:03

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	1912	7.568	4157	10.34	2811	14.21
	UPPER LIMIT	3824	8.068	8314	10.84	5622	14.713
	LOWER LIMIT	956	7.068	2078.5	9.84	1405.5	13.713
	EPA SAMPLE NO.						
01	PB168563BL	1968	7.57	4045	10.35	2736	14.22
02	PB168563BS	1960	7.57	4204	10.34	2586	14.21
03	PB168563BSD	1885	7.57	4095	10.34	2623	14.21

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.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/20/2025

Lab File ID: BN037355.D Time Analyzed: 18:03

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	5776	16.971	4813	21.171	4943	23.354
	UPPER LIMIT	11552	17.471	9626	21.671	9886	23.854
	LOWER LIMIT	2888	16.471	2406.5	20.671	2471.5	22.854
	EPA SAMPLE NO.						
01	PB168563BL	4864	16.98	4288	21.17	3457	23.36
02	PB168563BS	4830	16.97	3875	21.17	2749	23.35
03	PB168563BSD	5035	16.97	4193	21.16	4470	23.35

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.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/26/2025

Lab File ID: BN037403.D Time Analyzed: 21:38

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	1253	7.56	2741	10.34	1842	14.21
	UPPER LIMIT	2506	8.06	5482	10.84	3684	14.713
	LOWER LIMIT	626.5	7.06	1370.5	9.84	921	13.713
	EPA SAMPLE NO.						
01	RW8-SP100-20250619	1845	7.57	4080	10.34	2805	14.21
02	RW8-SP303-20250619	1773	7.57	3842	10.34	2717	14.21

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.: Q2375 SAS No.: Q2375 SDG NO.: Q2375

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/26/2025

Lab File ID: BN037403.D Time Analyzed: 21:38

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	3978	16.959	3956	21.162	4281	23.342
	UPPER LIMIT	7956	17.459	7912	21.662	8562	23.842
	LOWER LIMIT	1989	16.459	1978	20.662	2140.5	22.842
	EPA SAMPLE NO.						
01	RW8-SP100-20250619	5405	16.97	5167	21.16	5486	23.35
02	RW8-SP303-20250619	5443	16.97	5375	21.16	5619	23.35

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

Raw Data: **BN037413.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/19/25
Client Sample ID:	RW8-SP100-20250619	SDG No.:	Q2375
Lab Sample ID:	Q2375-01	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
BN037413.D	1	06/20/25 12:03	06/27/25 03:41	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1850	7.567				
1146-65-2	Naphthalene-d8	4080	10.34				
15067-26-2	Acenaphthene-d10	2810	14.213				
1517-22-2	Phenanthrene-d10	5410	16.971				
1719-03-5	Chrysene-d12	5170	21.161				
1520-96-3	Perylene-d12	5490	23.345				

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\BN062625\
Data File : BN037413.D
Acq On : 27 Jun 2025 03:41
Operator : RC/JU
Sample : Q2375-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Quant Time: Jun 27 04:38:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

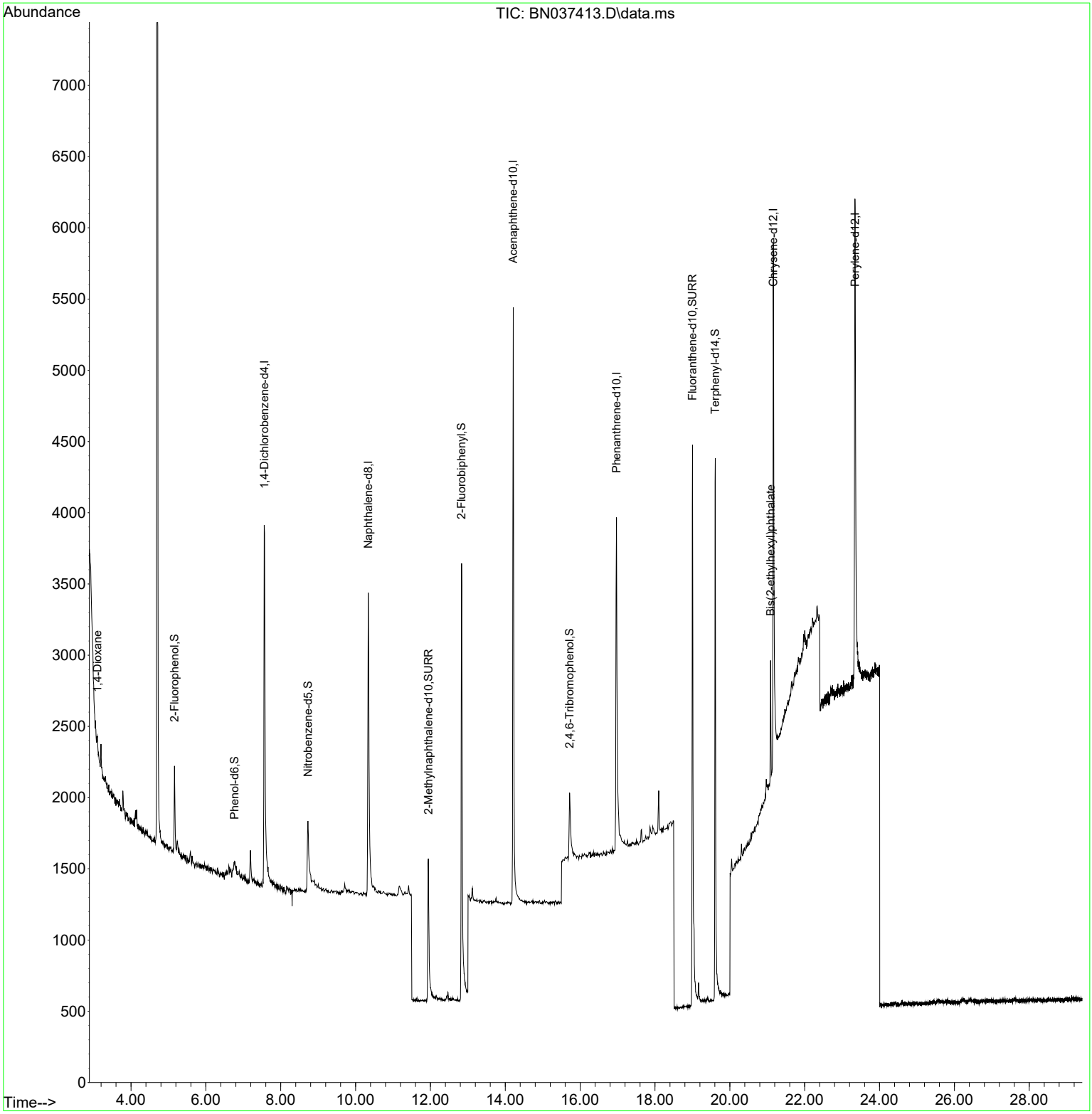
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	1845	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4080	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2805	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5405	0.400	ng	0.01
29) Chrysene-d12	21.161	240	5167	0.400	ng	# 0.00
35) Perylene-d12	23.345	264	5486	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.162	112	520	0.146	ng	0.00
5) Phenol-d6	6.766	99	237	0.064	ng	0.02
8) Nitrobenzene-d5	8.728	82	909	0.278	ng	0.01
11) 2-Methylnaphthalene-d10	11.945	152	2032	0.322	ng	0.00
14) 2,4,6-Tribromophenol	15.717	330	511	0.311	ng	0.00
15) 2-Fluorobiphenyl	12.832	172	3946	0.326	ng	0.00
27) Fluoranthene-d10	19.003	212	6216	0.401	ng	0.00
31) Terphenyl-d14	19.611	244	4924	0.447	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	90	0.051	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.090	149	730	0.114	ng	# 95

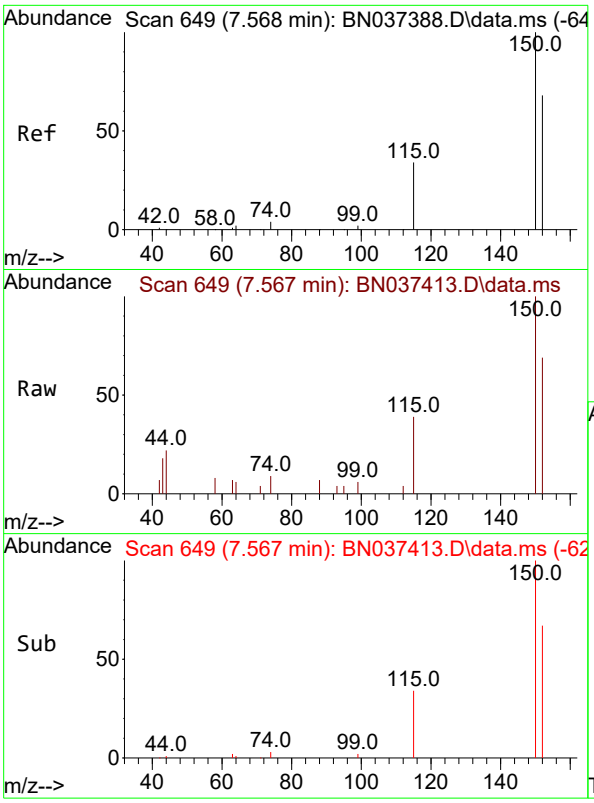
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037413.D
Acq On : 27 Jun 2025 03:41
Operator : RC/JU
Sample : Q2375-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Quant Time: Jun 27 04:38:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



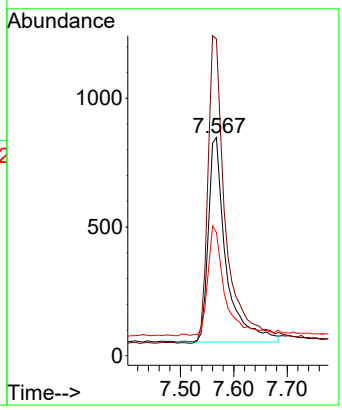


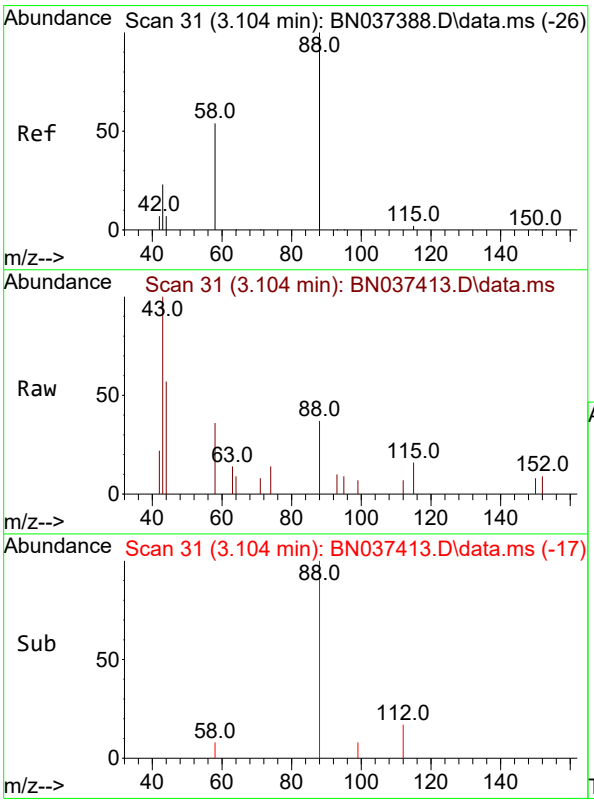
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 64
Delta R.T. -0.001 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Tgt Ion:152 Resp: 1845

Ion	Ratio	Lower	Upper
152	100		
150	145.2	116.2	174.2
115	56.6	42.9	64.3

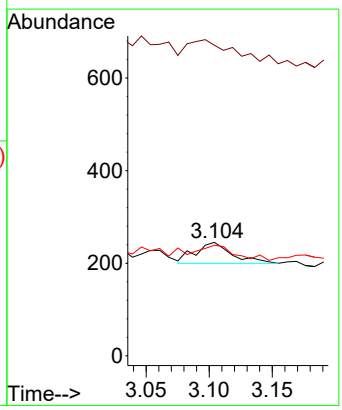


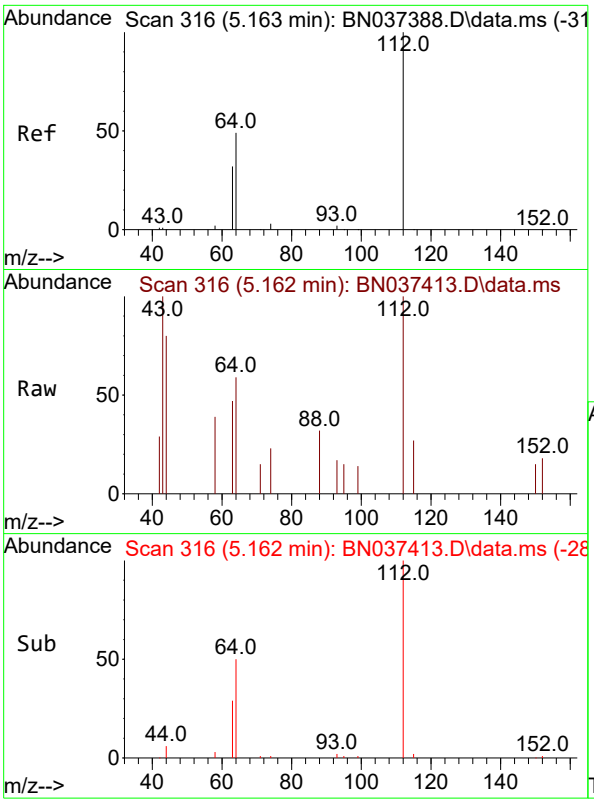


#2
1,4-Dioxane
Concen: 0.051 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Tgt Ion: 88 Resp: 90

Ion	Ratio	Lower	Upper
88	100		
43	181.1	21.6	32.4#
58	71.1	45.9	68.9#



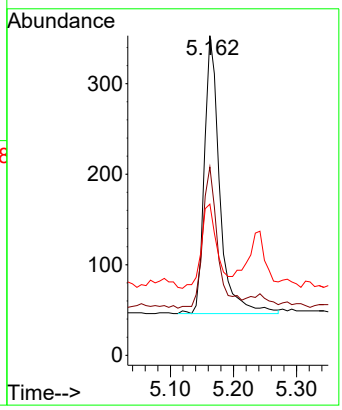


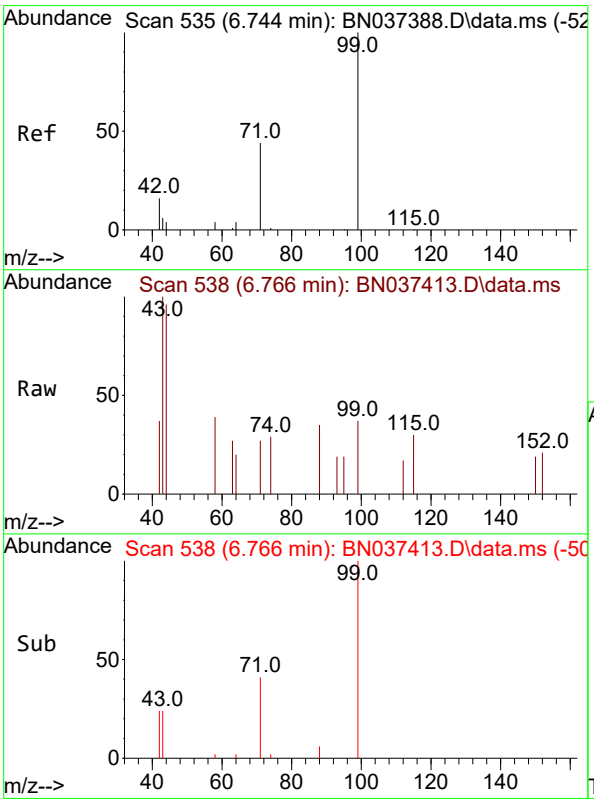
#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.162 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Tgt Ion:112 Resp: 520

Ion	Ratio	Lower	Upper
112	100		
64	49.4	40.3	60.5
63	30.6	26.1	39.1

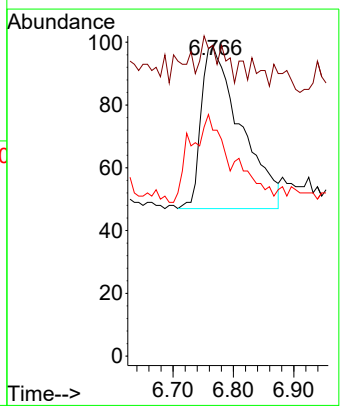


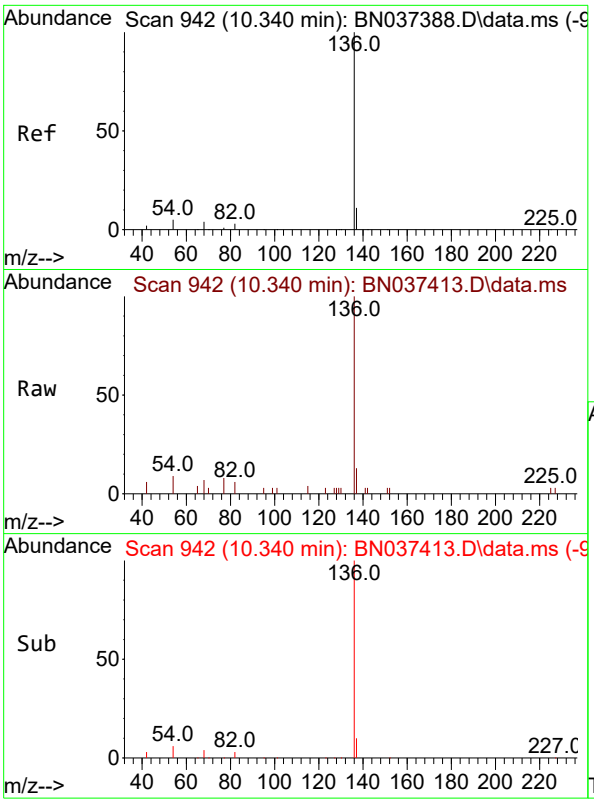


#5
Phenol-d6
Concen: 0.064 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.021 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Tgt Ion: 99 Resp: 237

Ion	Ratio	Lower	Upper
99	100		
42	8.9	15.6	23.4#
71	42.6	35.8	53.8



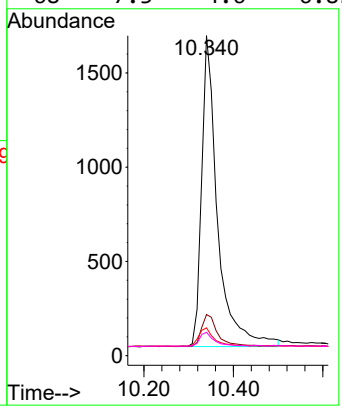


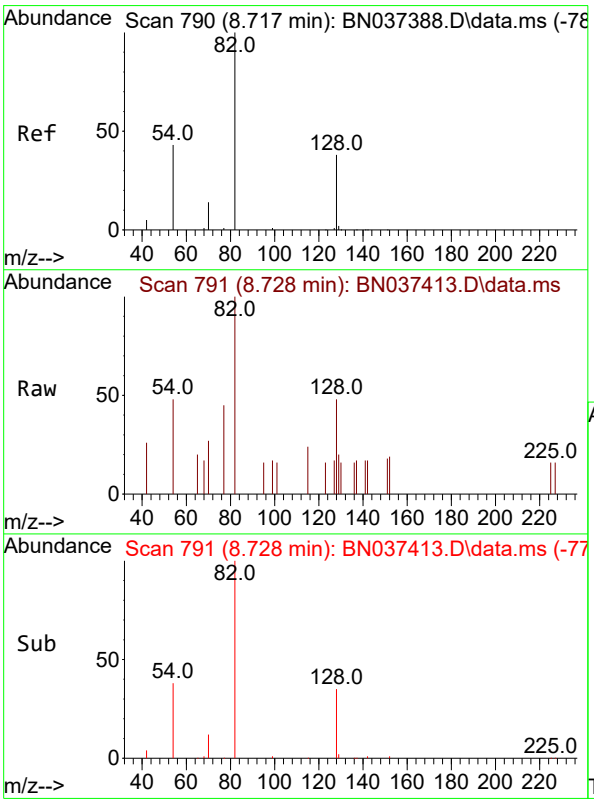
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Tgt Ion:136 Resp: 4080

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	8.7	5.6	8.4#
68	7.3	4.6	6.8#

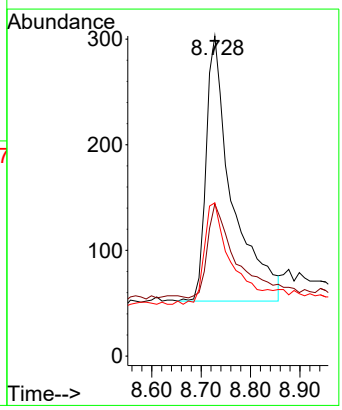


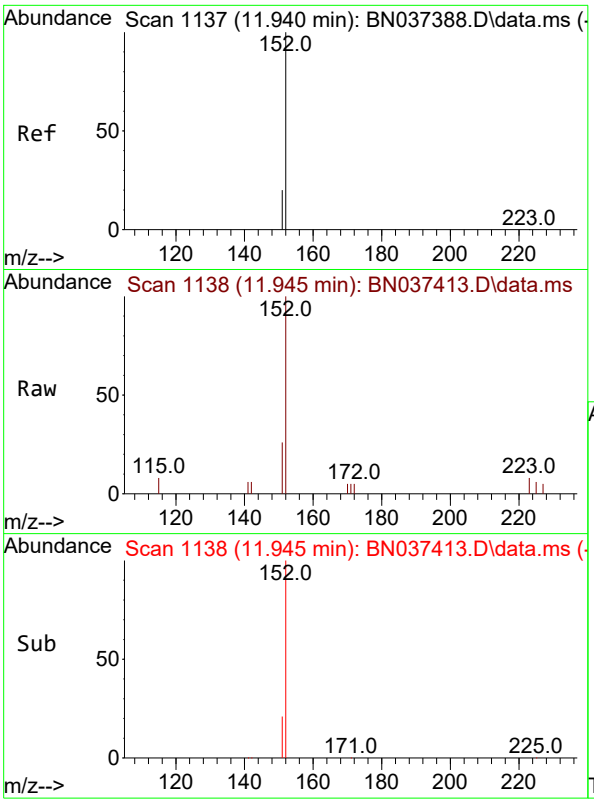


#8
Nitrobenzene-d5
Concen: 0.278 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.010 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Tgt Ion: 82 Resp: 909

Ion	Ratio	Lower	Upper
82	100		
128	47.5	34.0	51.0
54	47.9	37.7	56.5



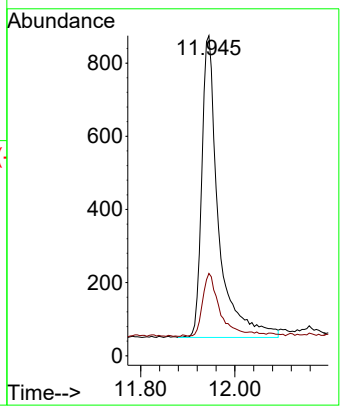


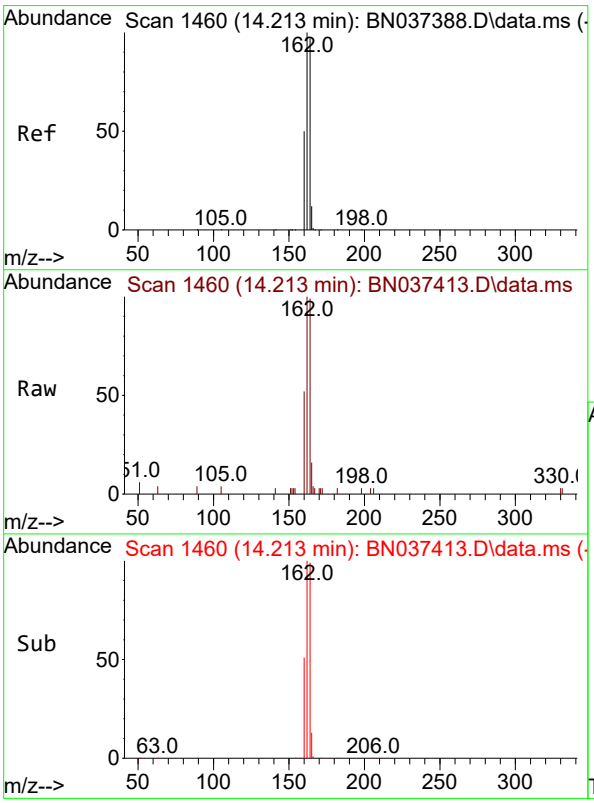
#11
2-Methylnaphthalene-d10
Concen: 0.322 ng
RT: 11.945 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Tgt Ion:152 Resp: 2032

Ion	Ratio	Lower	Upper
152	100		
151	20.6	18.4	27.6

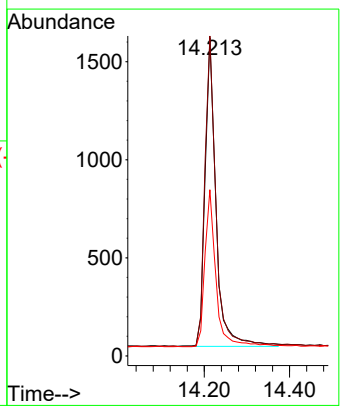


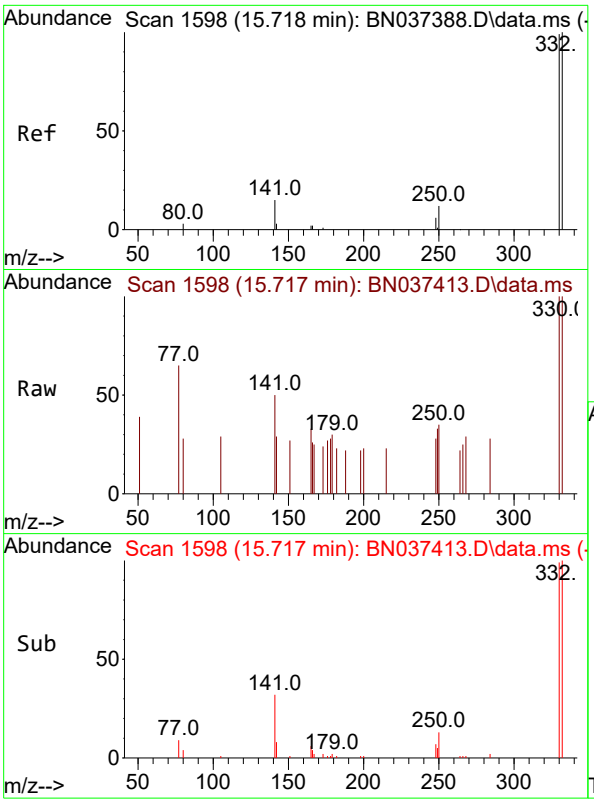


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Tgt Ion:164 Resp: 2805

Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.6	123.8
160	52.2	42.2	63.2



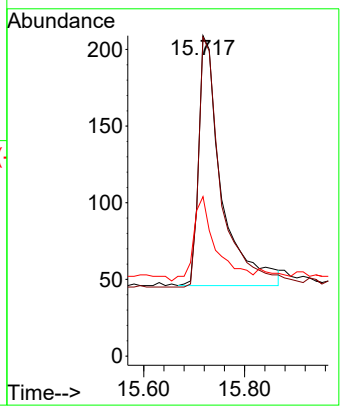


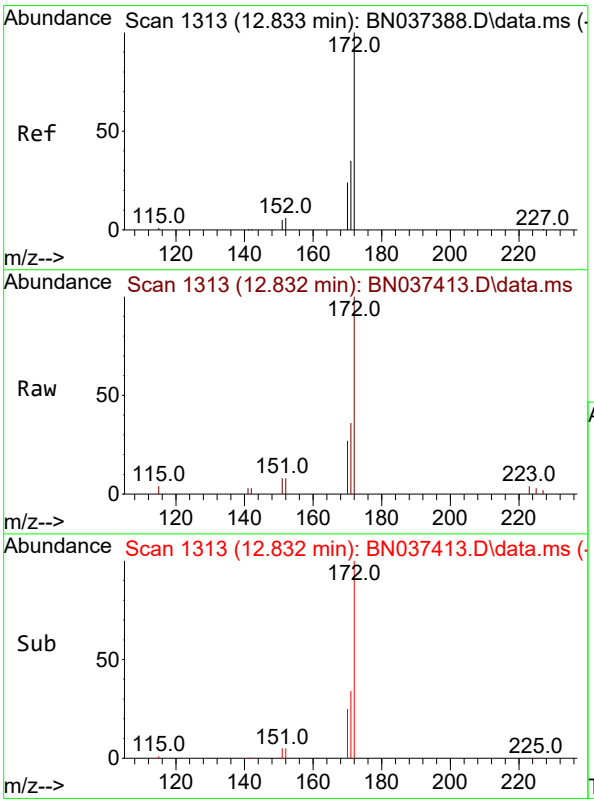
#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.717 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Tgt Ion:330 Resp: 511

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.8	116.8
141	33.3	24.0	36.0

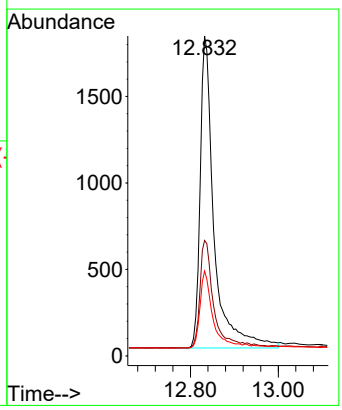


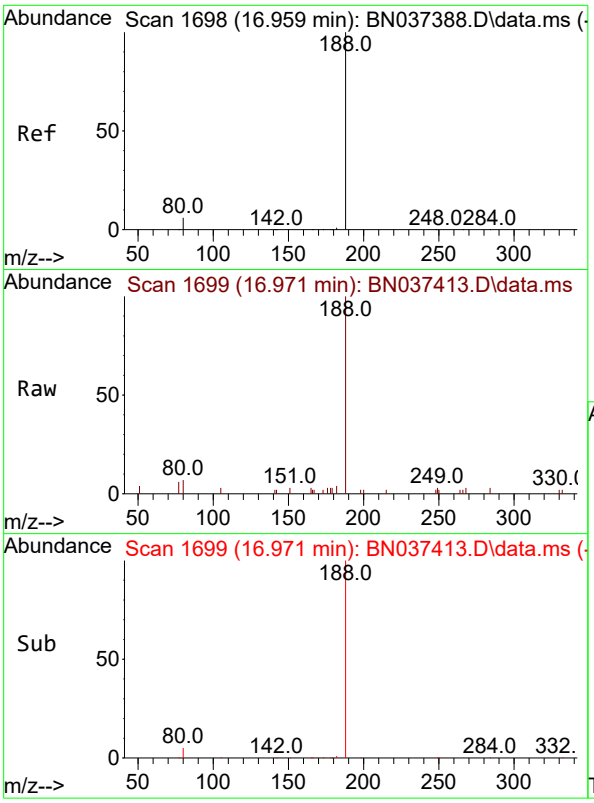


#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 12.832 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Tgt Ion:172 Resp: 3946

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	26.5	20.3	30.5



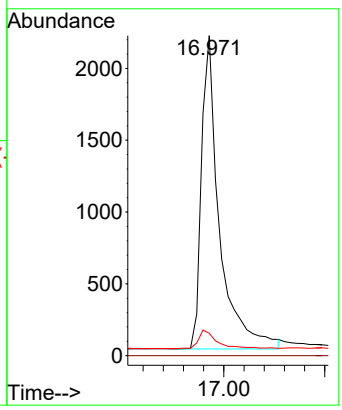


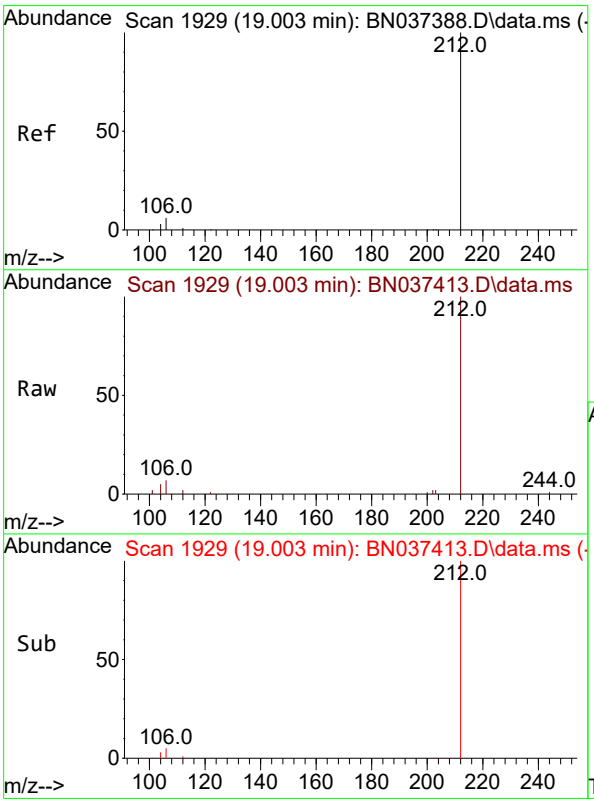
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Tgt Ion:188 Resp: 5405

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	6.2	9.4

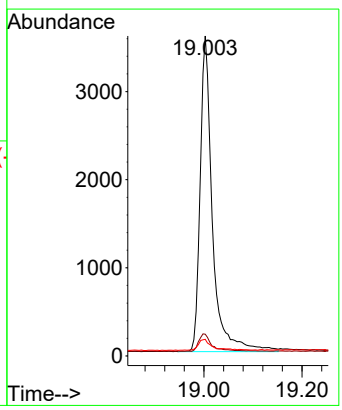


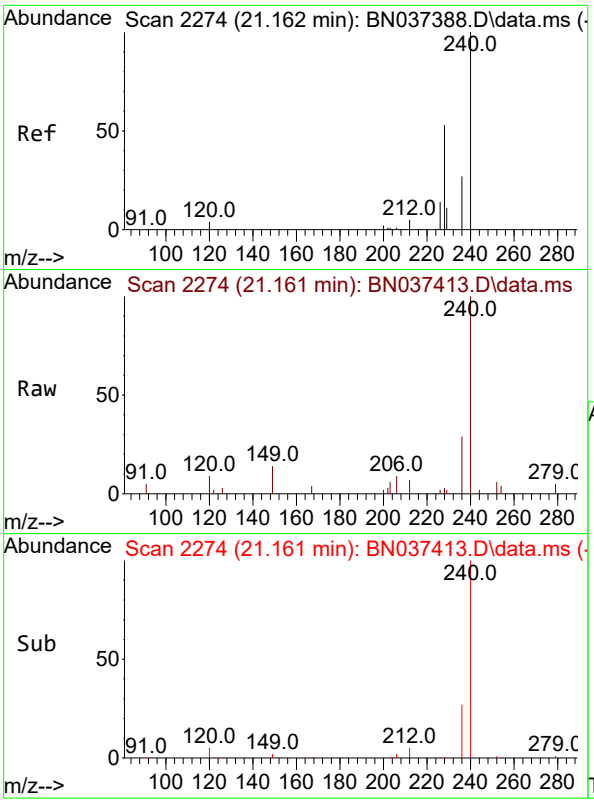


#27
Fluoranthene-d10
Concen: 0.401 ng
RT: 19.003 min Scan# 1929
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Tgt Ion:212 Resp: 6216

Ion	Ratio	Lower	Upper
212	100		
106	5.9	4.5	6.7
104	3.3	2.7	4.1



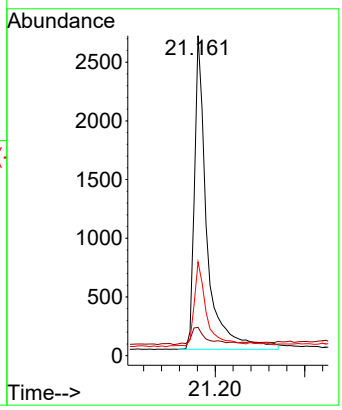


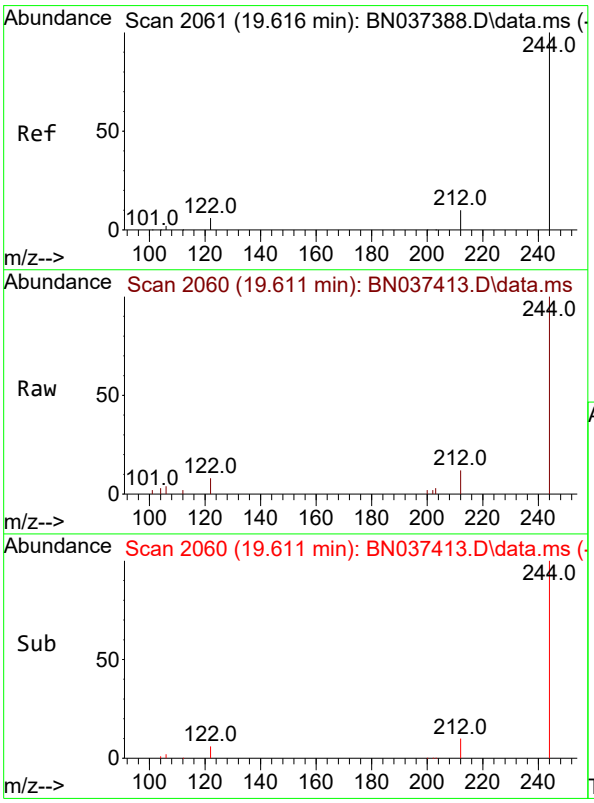
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.161 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Tgt Ion:240 Resp: 5167

Ion	Ratio	Lower	Upper
240	100		
120	8.8	5.3	7.9#
236	29.3	22.7	34.1

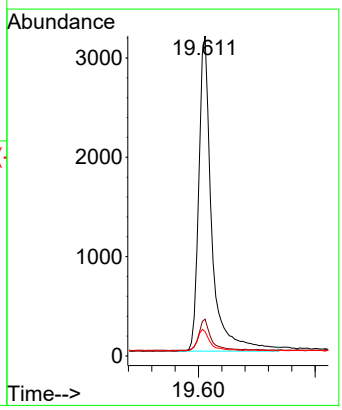


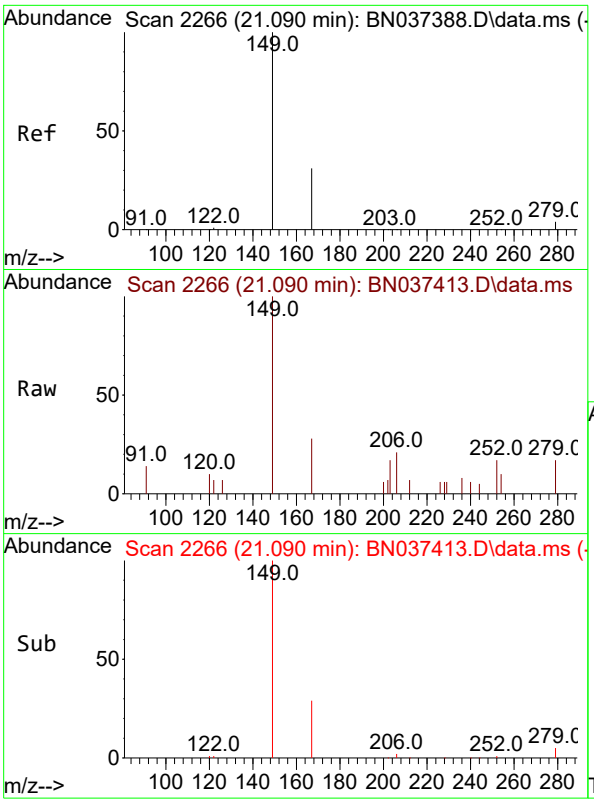


#31
Terphenyl-d14
Concen: 0.447 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Tgt Ion:244 Resp: 4924

Ion	Ratio	Lower	Upper
244	100		
212	11.5	9.1	13.7
122	7.6	6.3	9.5



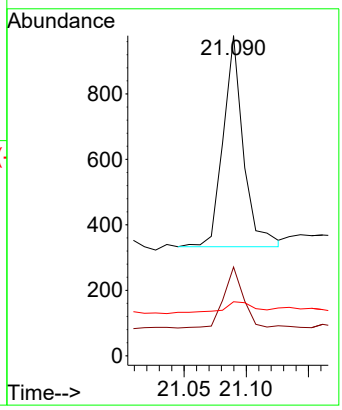


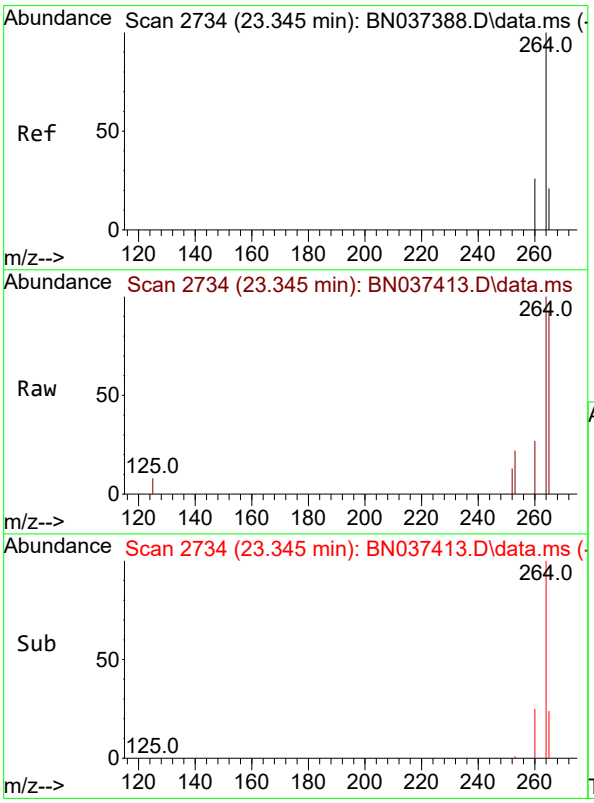
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.090 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250619

Tgt Ion:149 Resp: 730

Ion	Ratio	Lower	Upper
149	100		
167	28.9	24.8	37.2
279	9.3	5.0	7.6#

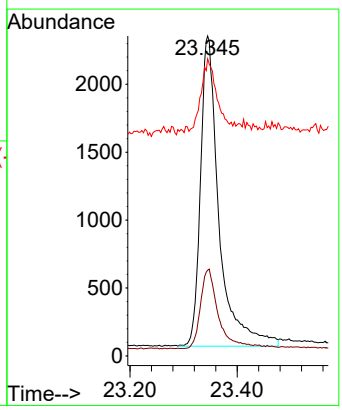




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2734
Delta R.T. -0.000 min
Lab File: BN037413.D
Acq: 27 Jun 2025 03:41

Tgt Ion:264 Resp: 5486

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.0
265	92.8	56.2	84.4#



Raw Data: **BN037414.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/19/25
Client Sample ID:	RW8-SP303-20250619	SDG No.:	Q2375
Lab Sample ID:	Q2375-02	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
BN037414.D	1	06/20/25 12:03	06/27/25 04:18	PB168563

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		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1770	7.568				
1146-65-2	Naphthalene-d8	3840	10.34				
15067-26-2	Acenaphthene-d10	2720	14.213				
1517-22-2	Phenanthrene-d10	5440	16.971				
1719-03-5	Chrysene-d12	5380	21.162				
1520-96-3	Perylene-d12	5620	23.345				

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\BN062625\
Data File : BN037414.D
Acq On : 27 Jun 2025 04:18
Operator : RC/JU
Sample : Q2375-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Quant Time: Jun 27 05:26:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

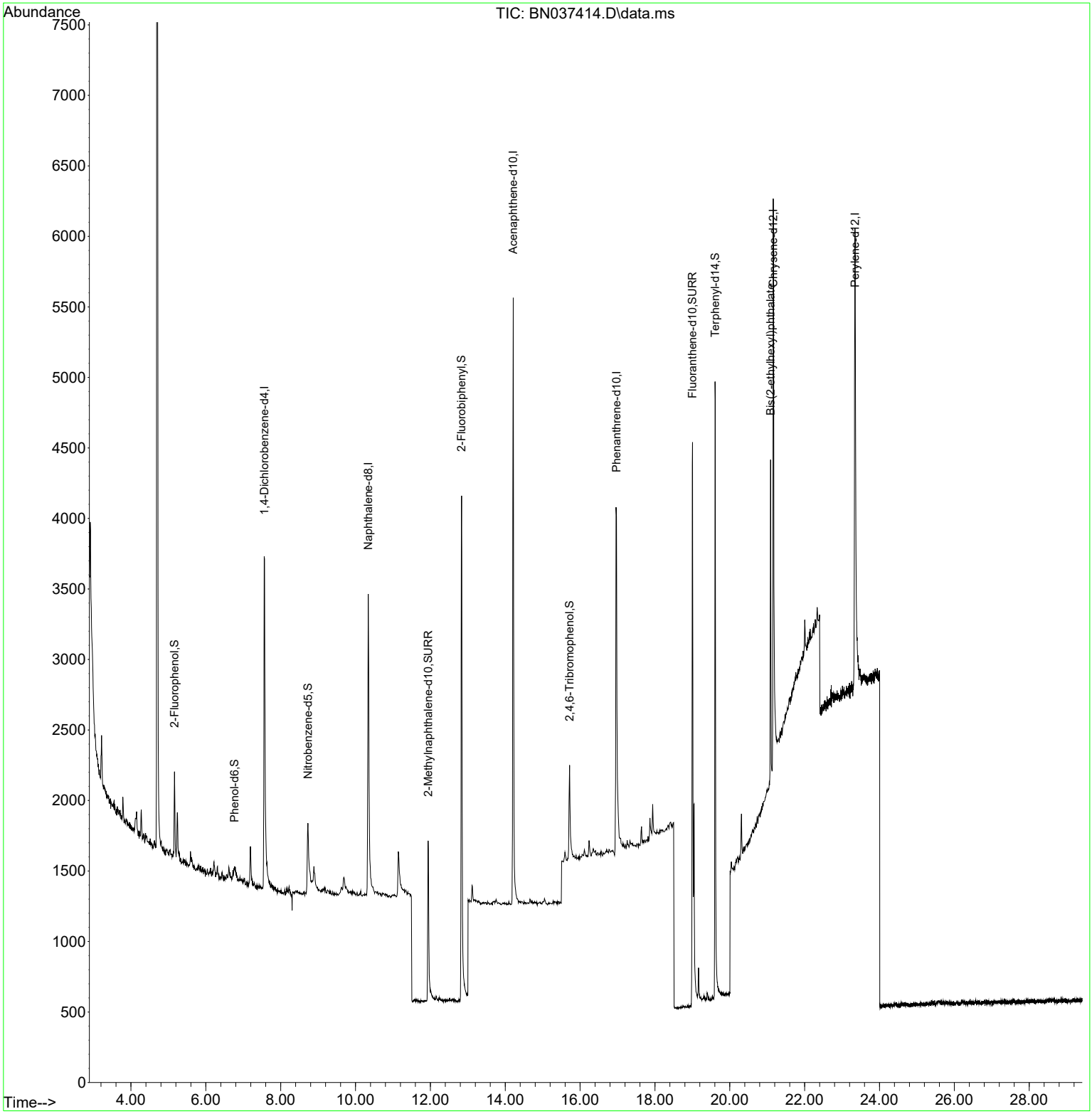
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1773	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3842	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2717	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5443	0.400	ng	0.01
29) Chrysene-d12	21.162	240	5375	0.400	ng	# 0.00
35) Perylene-d12	23.345	264	5619	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	514	0.150	ng	0.00
5) Phenol-d6	6.766	99	219	0.062	ng	0.02
8) Nitrobenzene-d5	8.728	82	872	0.283	ng	0.01
11) 2-Methylnaphthalene-d10	11.940	152	2100	0.353	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	582	0.365	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	4145	0.353	ng	0.00
27) Fluoranthene-d10	19.003	212	6108	0.392	ng	0.00
31) Terphenyl-d14	19.607	244	5311	0.463	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.090	149	1863	0.279	ng	100

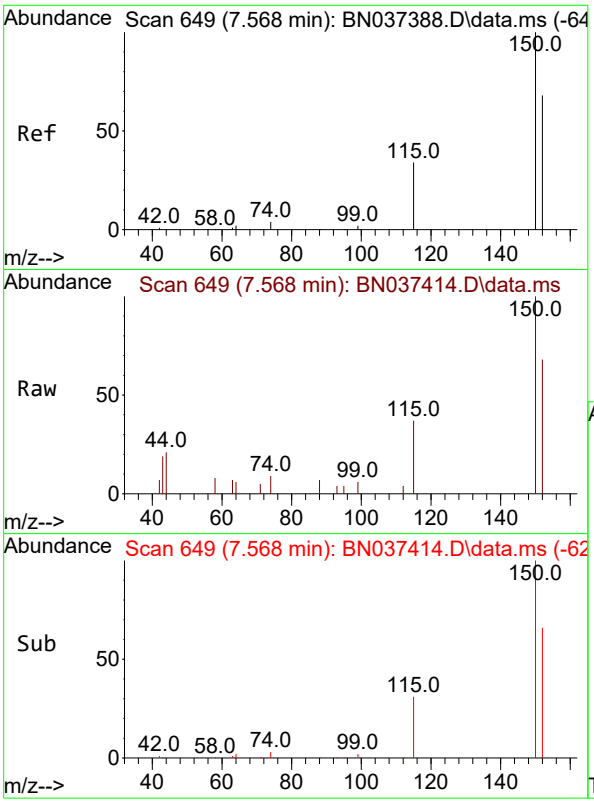
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037414.D
Acq On : 27 Jun 2025 04:18
Operator : RC/JU
Sample : Q2375-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Quant Time: Jun 27 05:26:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



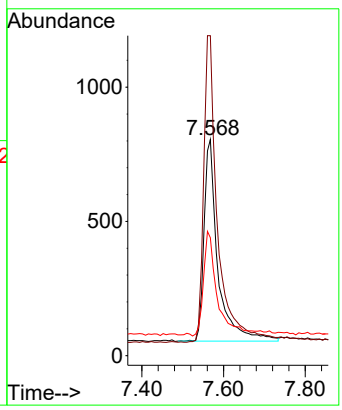


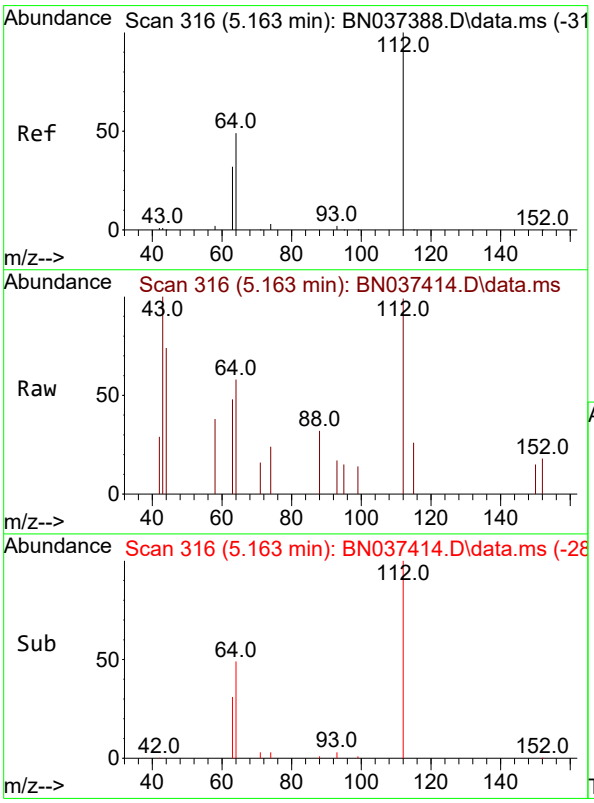
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Tgt Ion:152 Resp: 1773

Ion	Ratio	Lower	Upper
152	100		
150	148.1	116.2	174.2
115	54.5	42.9	64.3

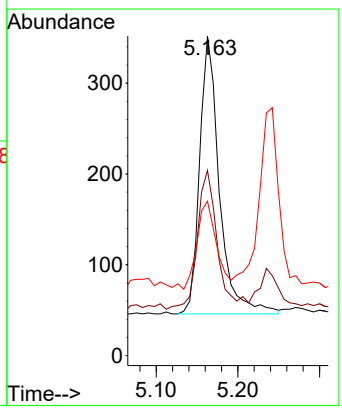


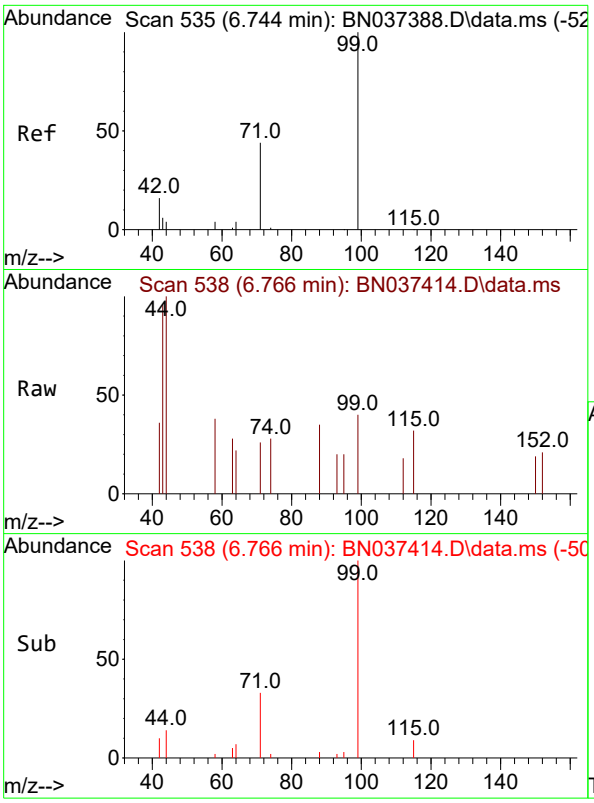


#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Tgt Ion:112 Resp: 514

Ion	Ratio	Lower	Upper
112	100		
64	48.8	40.3	60.5
63	30.0	26.1	39.1



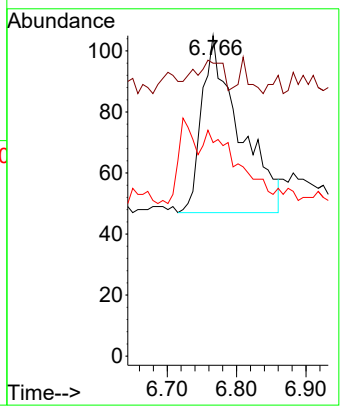


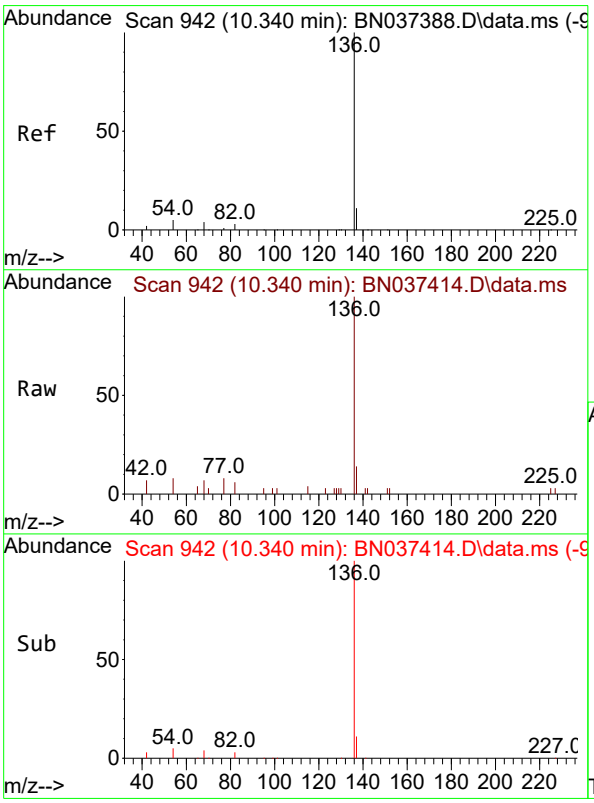
#5
Phenol-d6
Concen: 0.062 ng
RT: 6.766 min Scan# 5
Delta R.T. 0.022 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Tgt Ion: 99 Resp: 219

Ion	Ratio	Lower	Upper
99	100		
42	10.5	15.6	23.4#
71	0.0	35.8	53.8#

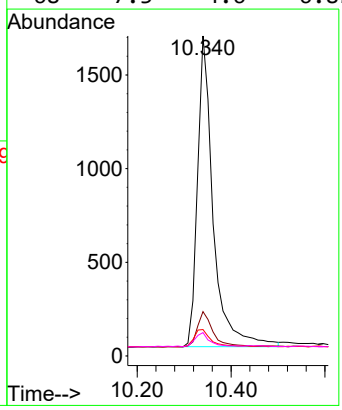


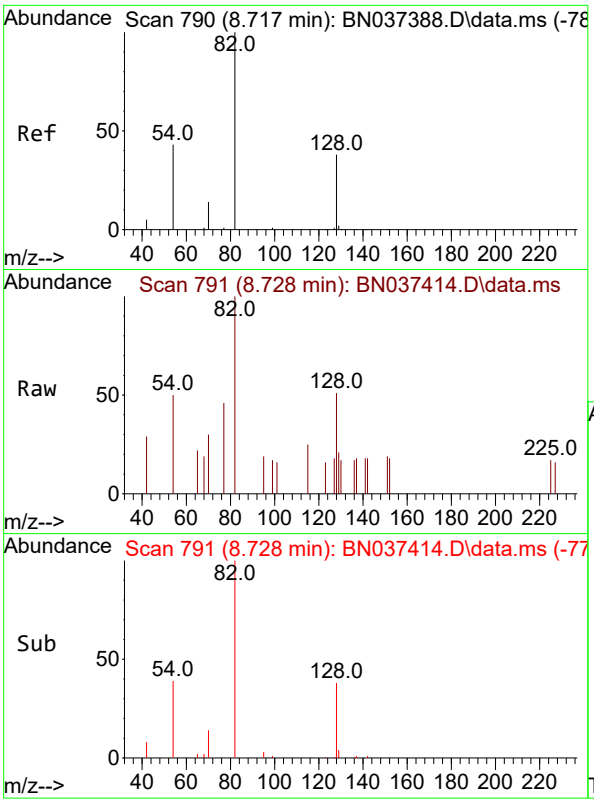


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Tgt Ion:136 Resp: 3842

Ion	Ratio	Lower	Upper
136	100		
137	13.9	10.4	15.6
54	8.3	5.6	8.4
68	7.3	4.6	6.8#



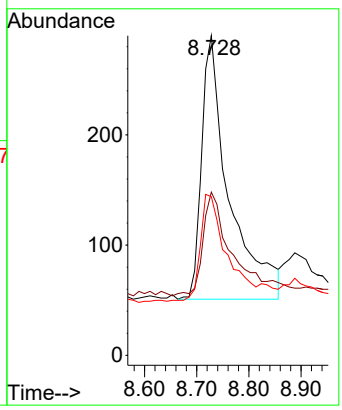


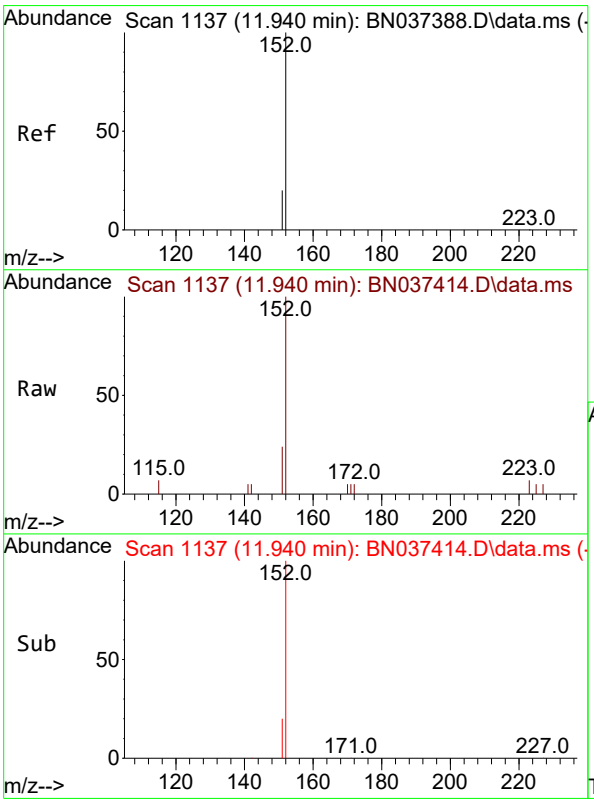
#8
Nitrobenzene-d5
Concen: 0.283 ng
RT: 8.728 min Scan# 7
Delta R.T. 0.011 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Tgt Ion: 82 Resp: 872

Ion	Ratio	Lower	Upper
82	100		
128	51.0	34.0	51.0#
54	49.7	37.7	56.5

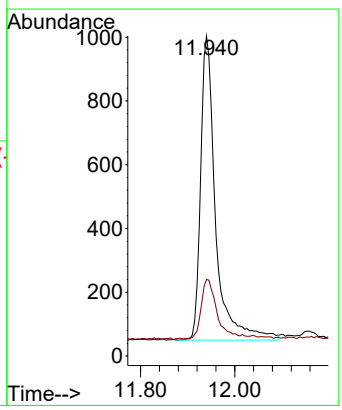


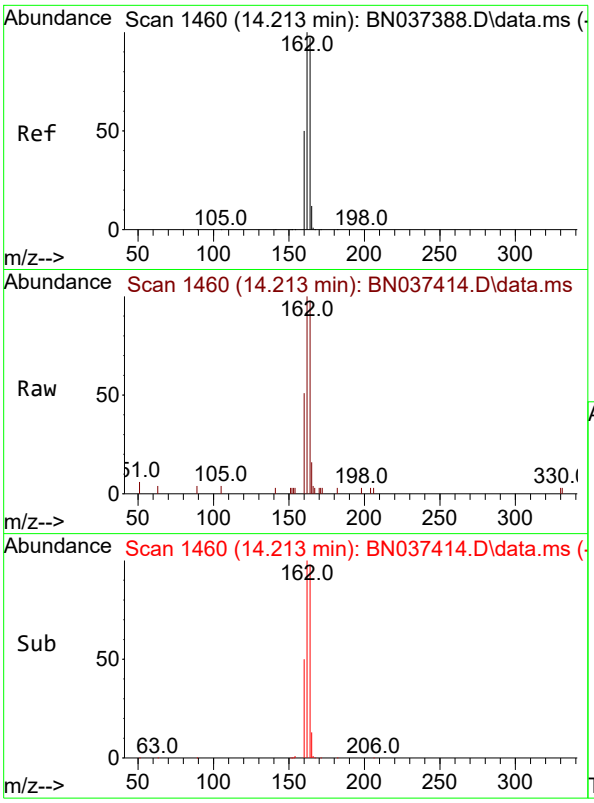


#11
2-Methylnaphthalene-d10
Concen: 0.353 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Tgt Ion:152 Resp: 2100

Ion	Ratio	Lower	Upper
152	100		
151	20.3	18.4	27.6



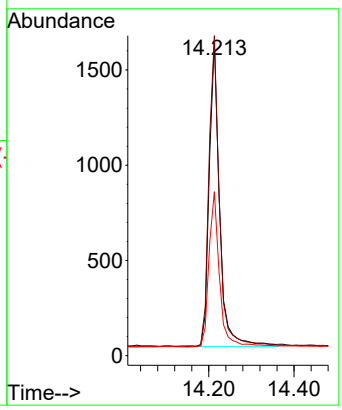


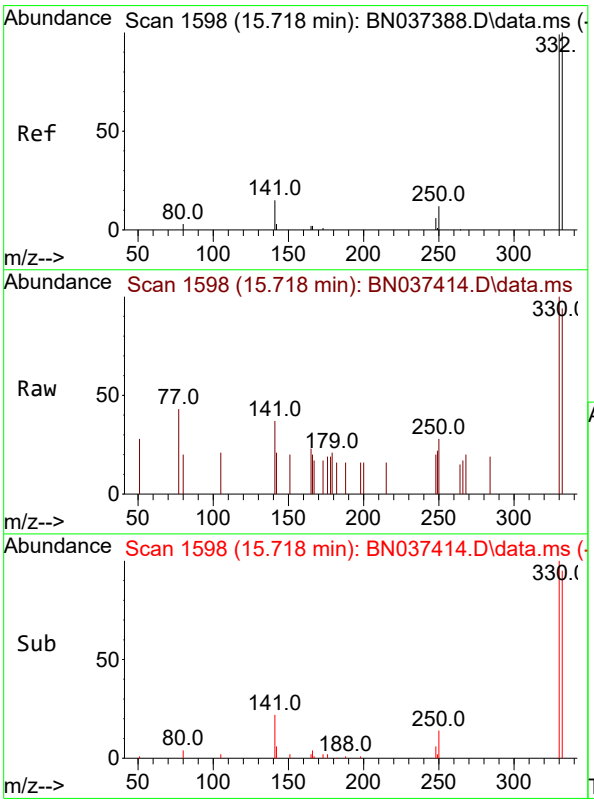
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Tgt Ion:164 Resp: 2717

Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.6	123.8
160	52.2	42.2	63.2

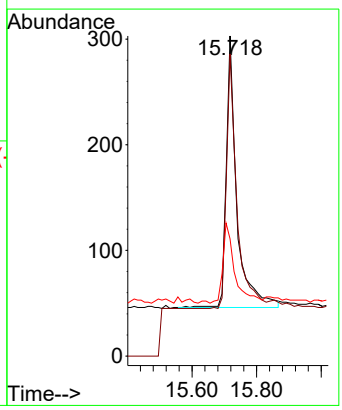


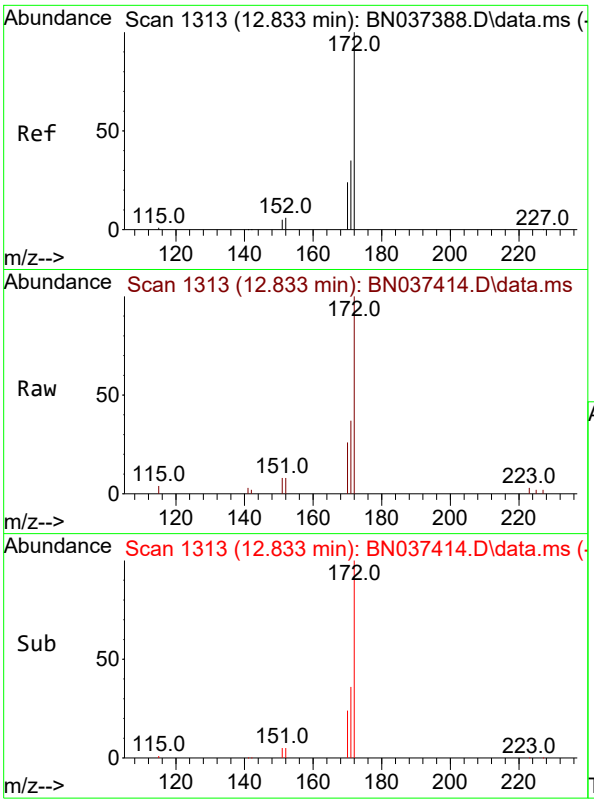


#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Tgt Ion:330 Resp: 582

Ion	Ratio	Lower	Upper
330	100		
332	93.1	77.8	116.8
141	33.2	24.0	36.0



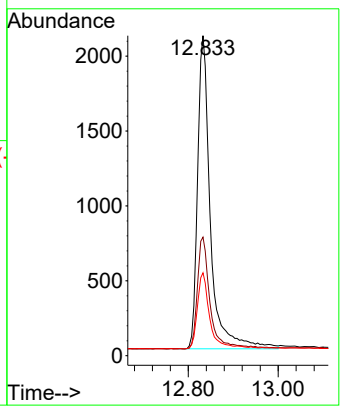


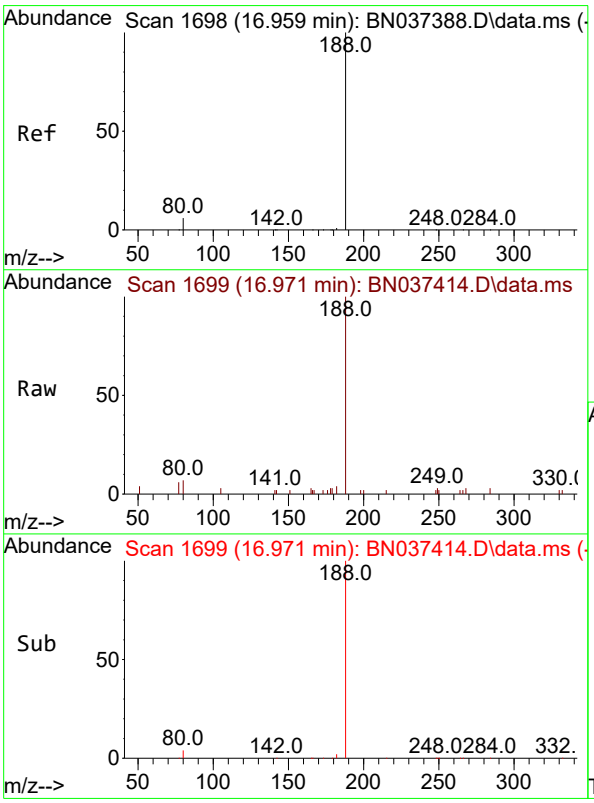
#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Tgt Ion:172 Resp: 4145

Ion	Ratio	Lower	Upper
172	100		
171	37.1	28.8	43.2
170	25.9	20.3	30.5

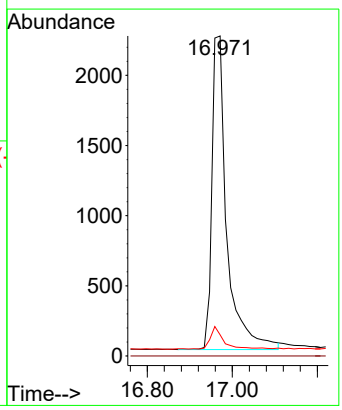


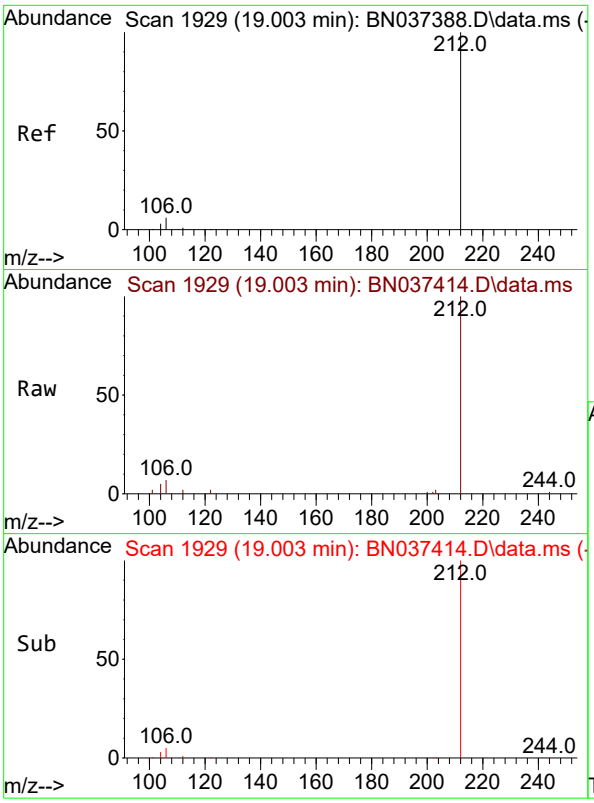


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Tgt Ion:188 Resp: 5443

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.6	6.2	9.4



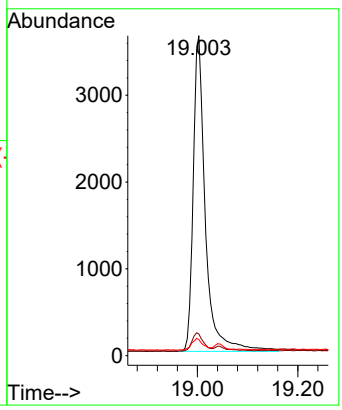


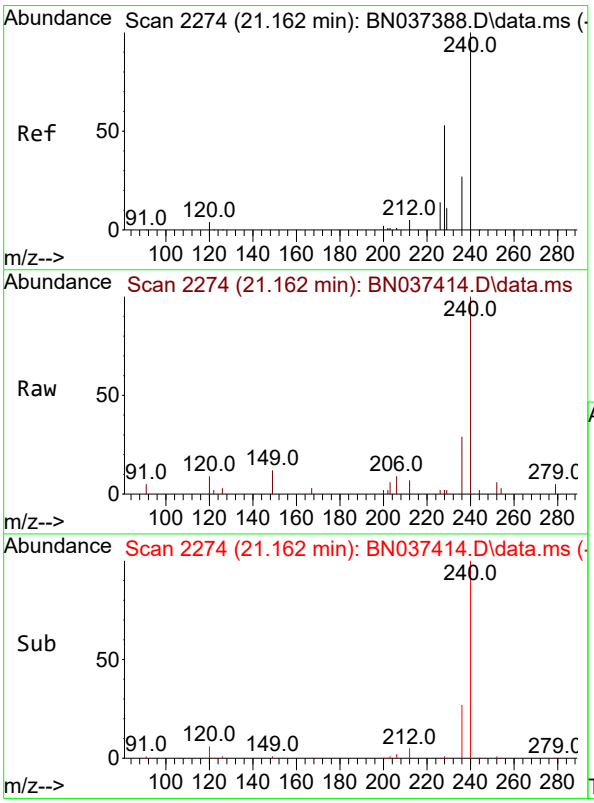
#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Tgt Ion:212 Resp: 6108

Ion	Ratio	Lower	Upper
212	100		
106	5.4	4.5	6.7
104	3.4	2.7	4.1

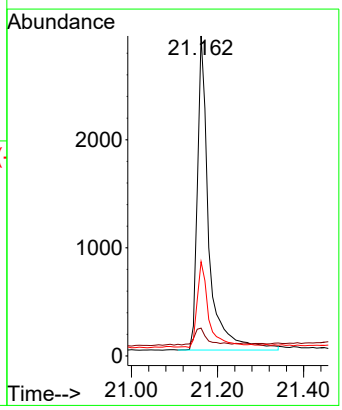


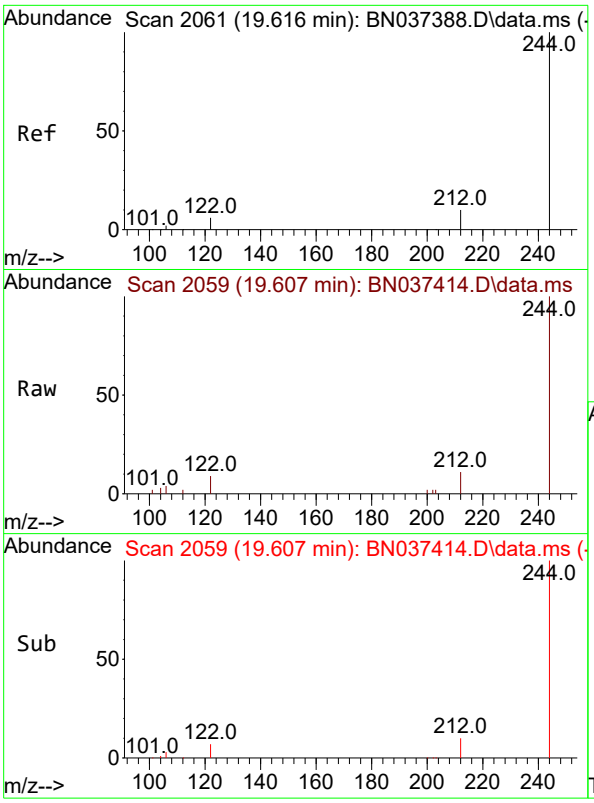


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Tgt Ion:240 Resp: 5375

Ion	Ratio	Lower	Upper
240	100		
120	8.7	5.3	7.9#
236	29.4	22.7	34.1



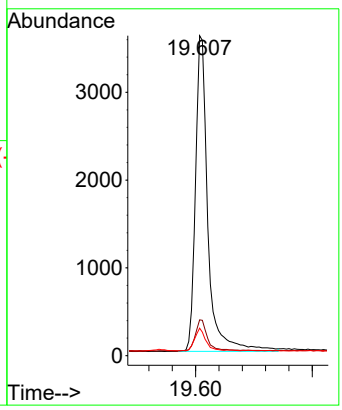


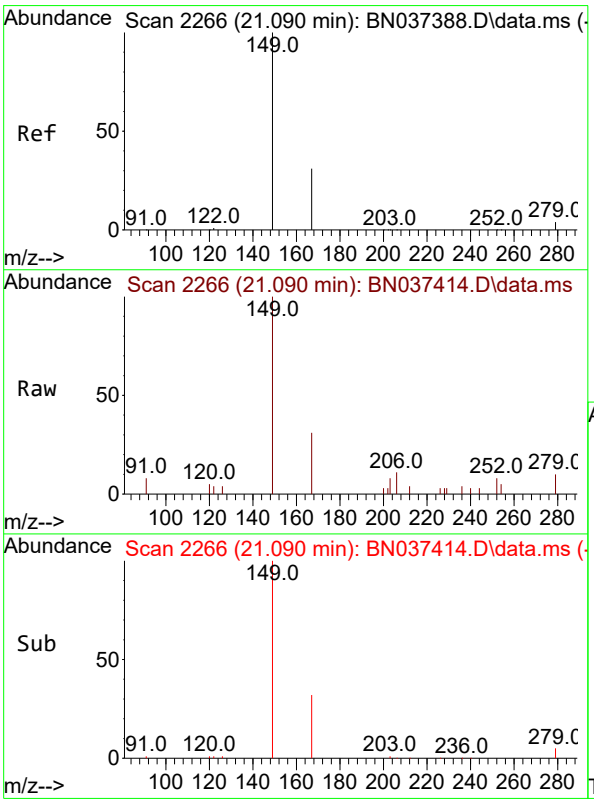
#31
Terphenyl-d14
Concen: 0.463 ng
RT: 19.607 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Tgt Ion:244 Resp: 5311

Ion	Ratio	Lower	Upper
244	100		
212	11.2	9.1	13.7
122	8.6	6.3	9.5

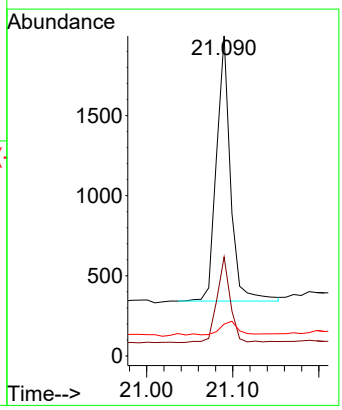


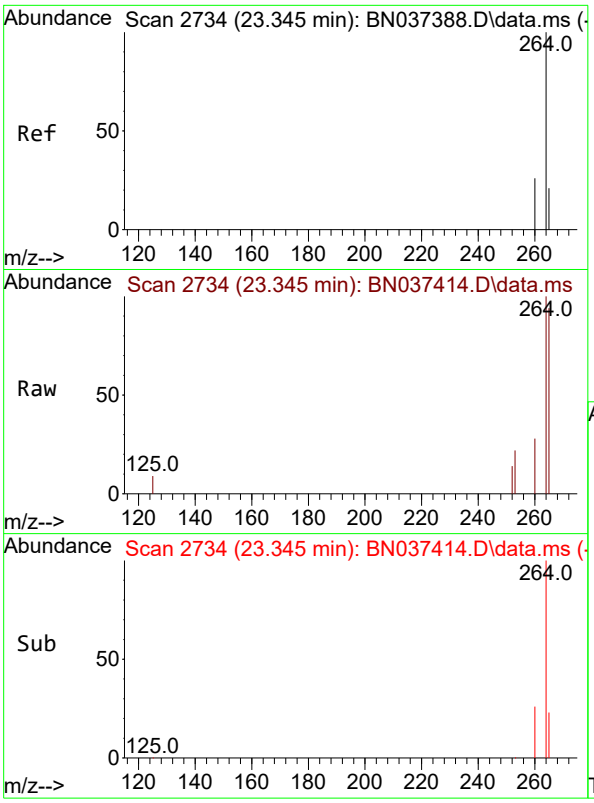


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.279 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Tgt Ion:149 Resp: 1863

Ion	Ratio	Lower	Upper
149	100		
167	30.8	24.8	37.2
279	6.3	5.0	7.6



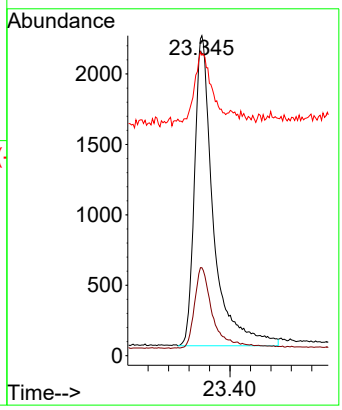


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037414.D
Acq: 27 Jun 2025 04:18

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250619

Tgt Ion:264 Resp: 5619

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.0
265	93.9	56.2	84.4#



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 23:41:54 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037353.D 0.2 =BN037354.D 0.4 =BN037355.D 0.8 =BN037356.D 1.6 =BN037357.D 3.2 =BN037358.D 5 =BN037359.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.506	0.390	0.412	0.417	0.370	0.346	0.407		13.63
3)		n-Nitrosodimet...	0.392	0.394	0.367	0.391	0.354	0.338	0.373		6.37
4)	S	2-Fluorophenol	0.854	0.818	0.751	0.781	0.834	0.786	0.771	0.799	4.65
5)	S	Phenol-d6	0.781	0.766	0.766	0.785	0.891	0.878	0.896	0.823	7.45
6)		bis(2-Chloroet...	0.719	0.546	0.707	0.738	0.826	0.786	0.791	0.730	12.59
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.254	0.292	0.319	0.318	0.363	0.354	0.361	0.323	12.43
9)		Naphthalene	1.056	1.056	1.046	1.014	1.105	1.052	1.063	1.056	2.54
10)		Hexachlorobuta...	0.452	0.434	0.441	0.407	0.424	0.384	0.376	0.417	6.95
11)	SURR	2-Methylnaphth...	0.619	0.638	0.666	0.610	0.666	0.664	0.675	0.648	3.96
12)		2-Methylnaphth...	0.703	0.692	0.711	0.704	0.777	0.778	0.787	0.736	5.73
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.219	0.226	0.230	0.231	0.253	0.238	0.246	0.235	4.96
15)	S	2-Fluorobiphenyl	1.705	1.675	1.777	1.714	1.897	1.752	1.778	1.757	4.15
16)		Acenaphthylene	1.646	1.636	1.597	1.595	1.797	1.717	1.786	1.682	5.06
17)		Acenaphthene	1.108	1.070	1.061	1.051	1.174	1.123	1.160	1.107	4.40
18)		Fluorene	1.499	1.470	1.506	1.490	1.660	1.605	1.660	1.556	5.34
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.070	0.079	0.097	0.110	0.107	0.114	0.096		18.63
21)		4-Bromophenyl-...	0.264	0.267	0.279	0.284	0.305	0.295	0.299	0.285	5.55
22)		Hexachlorobenzene	0.322	0.319	0.314	0.304	0.324	0.296	0.292	0.310	4.11
23)		Atrazine	0.221	0.215	0.218	0.220	0.239	0.239	0.238	0.227	4.74
24)		Pentachlorophenol	0.131	0.137	0.157	0.169	0.161	0.170	0.154		10.69
25)		Phenanthrene	1.108	1.075	1.104	1.139	1.242	1.221	1.222	1.158	5.88
26)		Anthracene	0.993	0.984	0.990	1.054	1.150	1.137	1.171	1.068	7.75
27)	SURR	Fluoranthene-d10	1.097	1.070	1.161	1.166	1.235	1.151	1.158	1.148	4.62
28)		Fluoranthene	1.412	1.343	1.367	1.492	1.605	1.512	1.518	1.464	6.39
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.726	1.690	1.660	1.444	1.572	1.642	1.643	1.625	5.73
31)	S	Terphenyl-d14	0.949	0.911	0.925	0.829	0.909	0.935	0.921	0.912	4.25
32)		Benzo(a)anthra...	1.309	1.168	1.216	1.278	1.431	1.372	1.429	1.315	7.76
33)		Chrysene	1.752	1.706	1.611	1.481	1.586	1.528	1.495	1.594	6.52
34)		Bis(2-ethylhex...	0.606	0.541	0.487	0.520	0.531	0.554	0.540		7.34
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062125.M

36)		Indeno(1,2,3-c...	1.741	1.715	1.695	1.761	1.974	1.819	1.856	1.794	5.42
37)		Benzo(b)fluora...	1.428	1.380	1.444	1.392	1.541	1.532	1.587	1.472	5.50
38)		Benzo(k)fluora...	1.576	1.593	1.569	1.466	1.671	1.617	1.686	1.597	4.59
39)	C	Benzo(a)pyrene	1.320	1.249	1.274	1.247	1.399	1.348	1.395	1.319	4.90
40)		Dibenzo(a,h)an...	1.179	1.185	1.236	1.355	1.561	1.446	1.478	1.348	11.32
41)		Benzo(g,h,i)pe...	1.620	1.554	1.589	1.560	1.720	1.577	1.598	1.603	3.53

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037353.D
Acq On : 20 Jun 2025 16:51
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 20 23:26:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	2463	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	5110	0.400	ng		# 0.01
13) Acenaphthene-d10	14.213	164	3596	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	7299	0.400	ng		0.00
29) Chrysene-d12	21.171	240	6135	0.400	ng		0.00
35) Perylene-d12	23.357	264	6598	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	526	0.117	ng		0.00
5) Phenol-d6	6.752	99	481	0.108	ng		0.00
8) Nitrobenzene-d5	8.728	82	325	0.077	ng		0.01
11) 2-Methylnaphthalene-d10	11.955	152	791	0.096	ng		0.01
14) 2,4,6-Tribromophenol	15.730	330	197	0.077	ng		0.01
15) 2-Fluorobiphenyl	12.848	172	1533	0.097	ng		0.01
27) Fluoranthene-d10	19.012	212	2001	0.088	ng		0.00
31) Terphenyl-d14	19.625	244	1456	0.104	ng		0.00
Target Compounds							Qvalue
6) bis(2-Chloroethyl)ether	7.004	93	443	0.114	ng		98
9) Naphthalene	10.394	128	1349	0.102	ng		98
10) Hexachlorobutadiene	10.682	225	578	0.089	ng	#	99
12) 2-Methylnaphthalene	12.026	142	898	0.096	ng		96
16) Acenaphthylene	13.935	152	1480	0.098	ng		98
17) Acenaphthene	14.277	154	996	0.100	ng		99
18) Fluorene	15.282	166	1348	0.095	ng		99
21) 4-Bromophenyl-phenylether	16.177	248	482	0.081	ng	#	95
22) Hexachlorobenzene	16.276	284	588	0.095	ng		98
23) Atrazine	16.450	200	404	0.087	ng		92
25) Phenanthrene	17.009	178	2021	0.098	ng		99
26) Anthracene	17.108	178	1812	0.094	ng		98
28) Fluoranthene	19.045	202	2576	0.091	ng	#	99
30) Pyrene	19.407	202	2647	0.113	ng		99
32) Benzo(a)anthracene	21.162	228	2007	0.101	ng		98
33) Chrysene	21.206	228	2687	0.107	ng		98
36) Indeno(1,2,3-cd)pyrene	25.550	276	2871	0.103	ng	#	98
37) Benzo(b)fluoranthene	22.708	252	2355	0.101	ng	#	75
38) Benzo(k)fluoranthene	22.749	252	2600	0.102	ng	#	79
39) Benzo(a)pyrene	23.263	252	2178	0.102	ng	#	60
40) Dibenzo(a,h)anthracene	25.567	278	1944	0.087	ng	#	78
41) Benzo(g,h,i)perylene	26.213	276	2673	0.104	ng	#	92

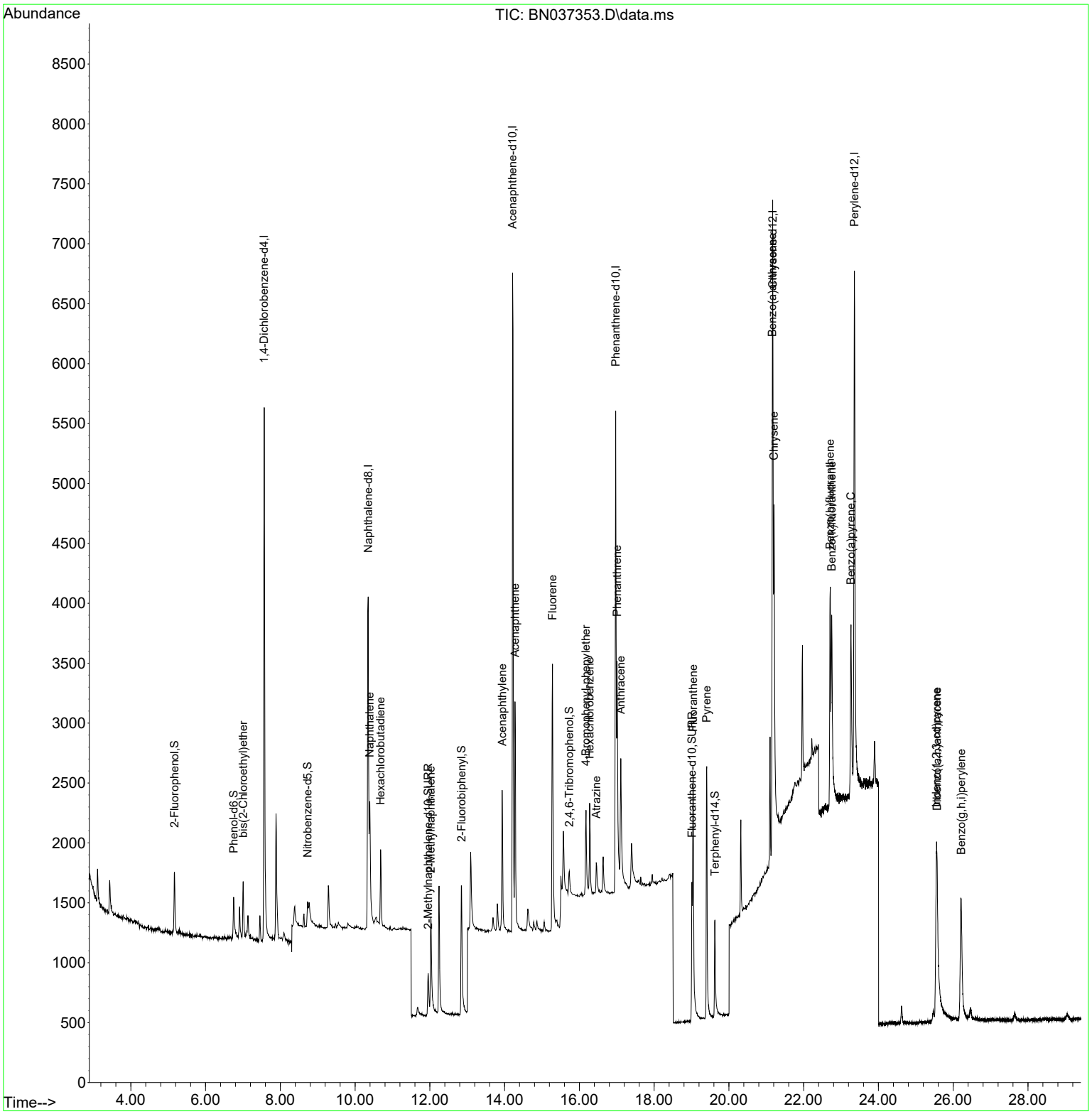
(#) = qualifier out of range (m) = manual integration (+) = signals summed

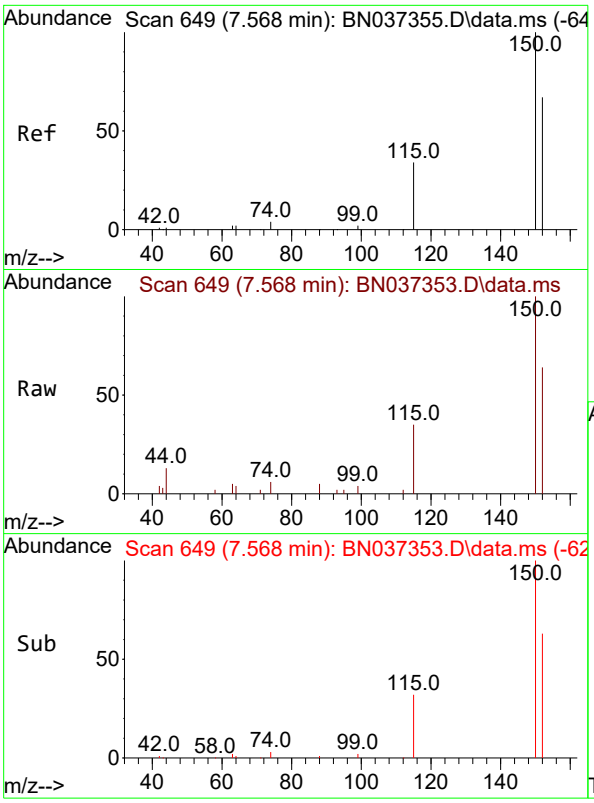
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037353.D
Acq On : 20 Jun 2025 16:51
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 20 23:26:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



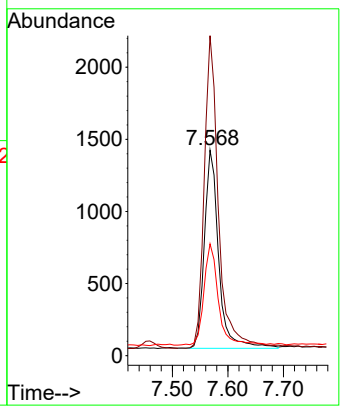


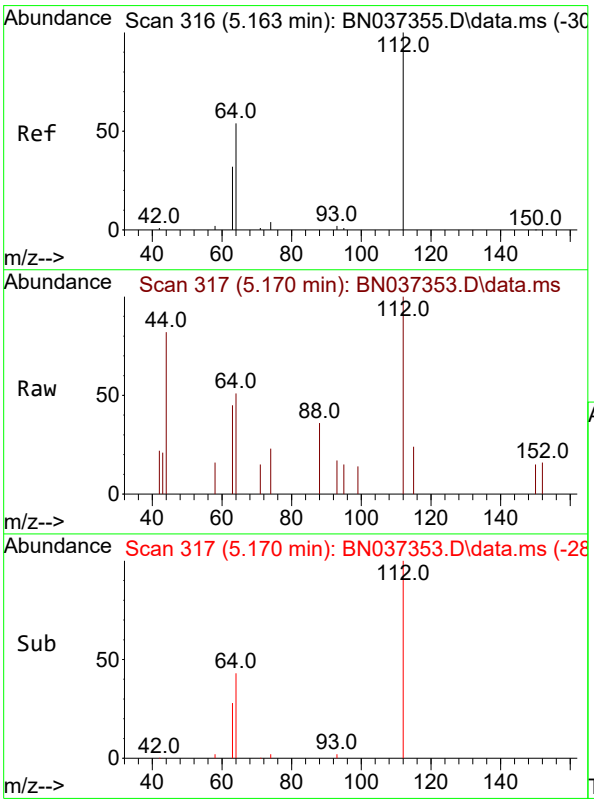
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2463

Ion	Ratio	Lower	Upper
152	100		
150	155.8	112.7	169.1
115	54.4	45.9	68.9

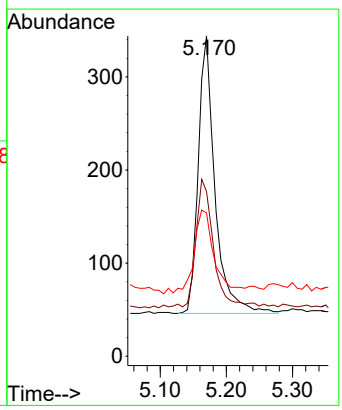


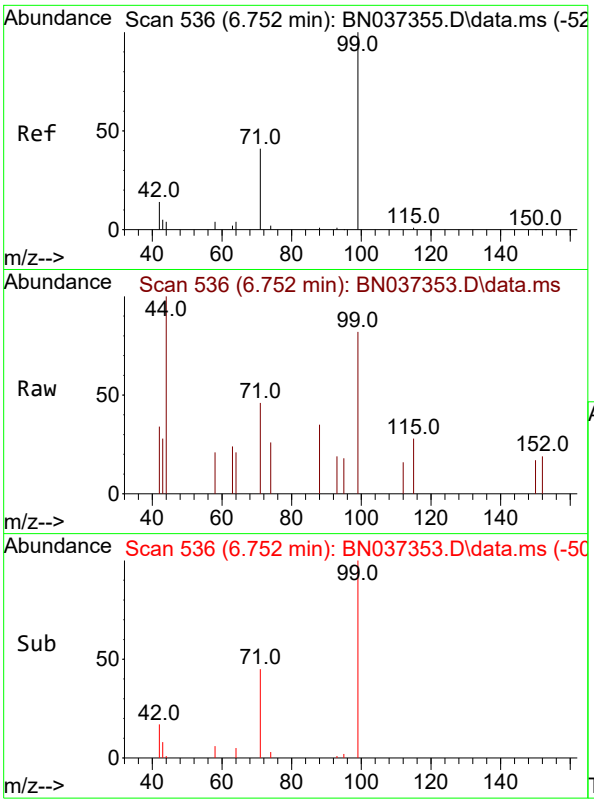


#4
2-Fluorophenol
Concen: 0.117 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:112 Resp: 526

Ion	Ratio	Lower	Upper
112	100		
64	51.3	38.7	58.1
63	37.1	26.4	39.6



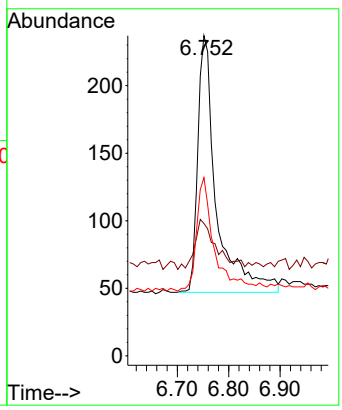


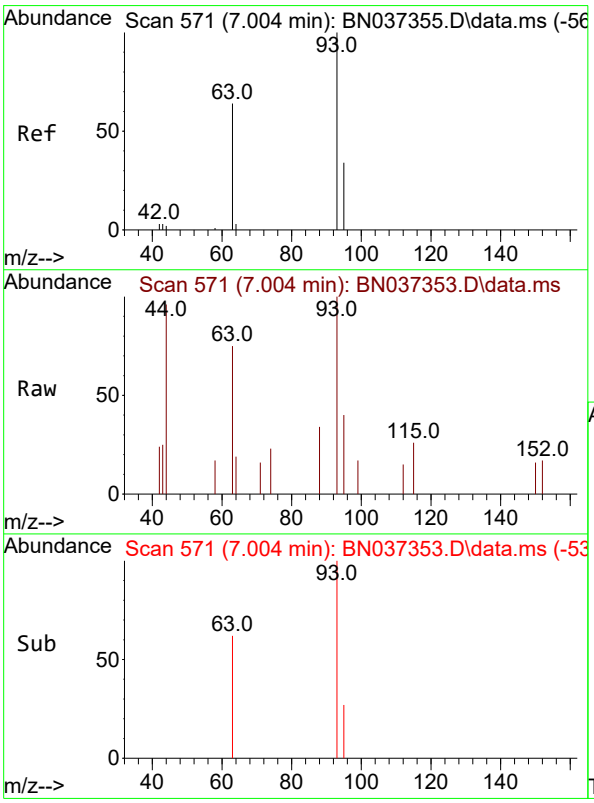
#5
Phenol-d6
Concen: 0.108 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 481

Ion	Ratio	Lower	Upper
99	100		
42	22.0	19.8	29.8
71	41.6	42.6	64.0#

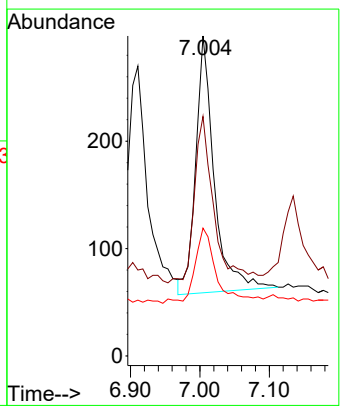


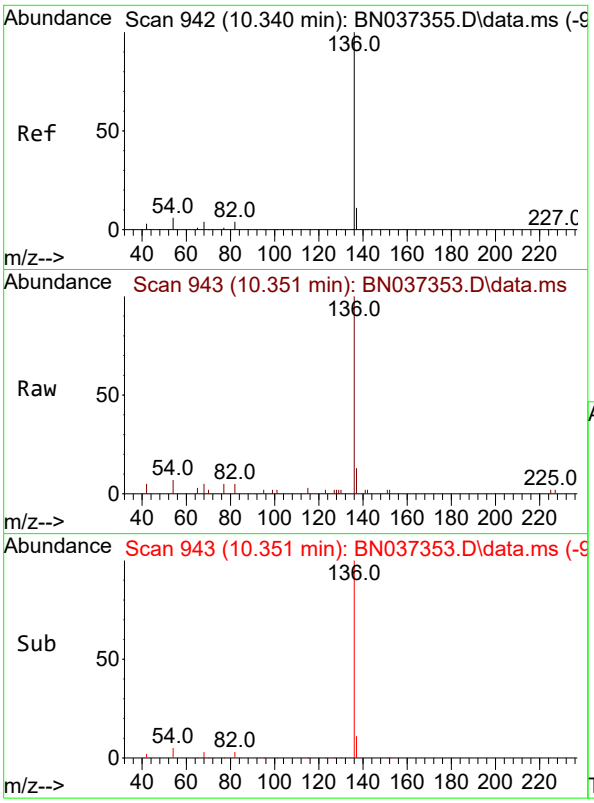


#6
bis(2-Chloroethyl)ether
Concen: 0.114 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion: 93 Resp: 443

Ion	Ratio	Lower	Upper
93	100		
63	68.4	53.2	79.8
95	34.5	27.3	40.9



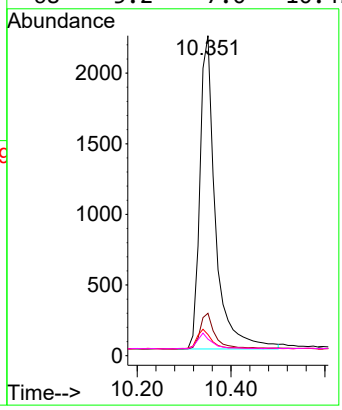


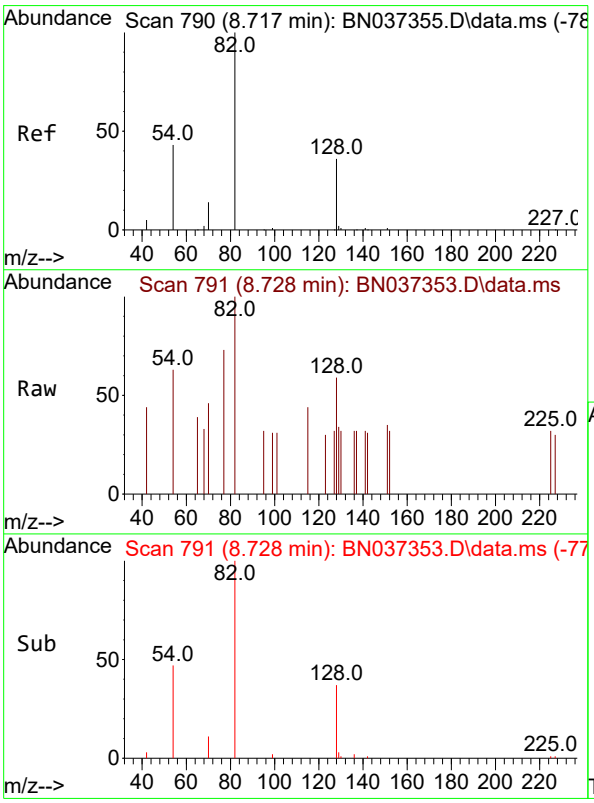
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 5110

Ion	Ratio	Lower	Upper
136	100		
137	13.2	12.2	18.2
54	6.6	8.8	13.2#
68	5.2	7.0	10.4#

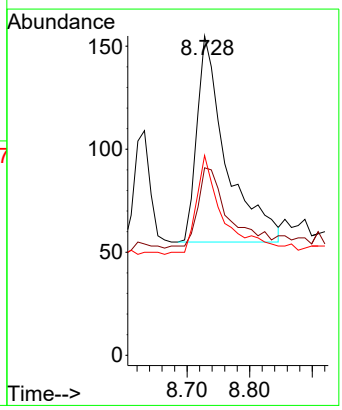


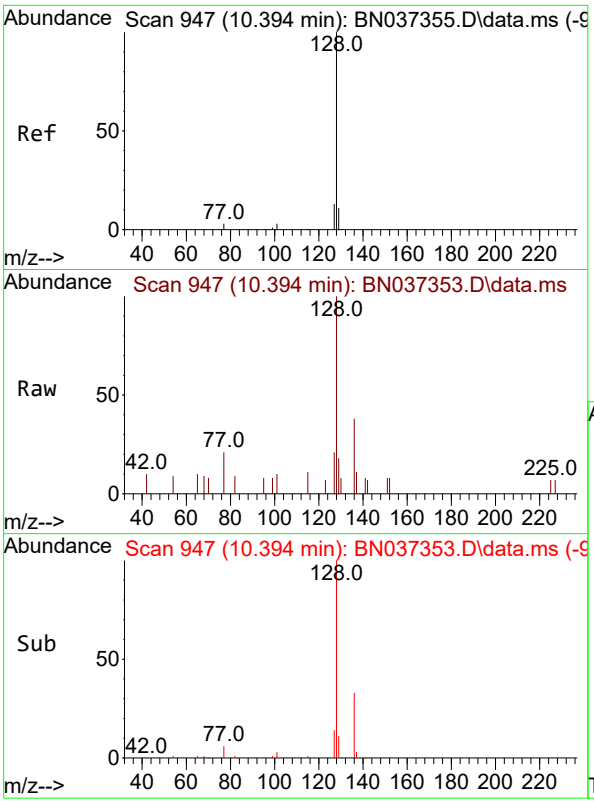


#8
Nitrobenzene-d5
Concen: 0.077 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion: 82 Resp: 325

Ion	Ratio	Lower	Upper
82	100		
128	58.7	42.5	63.7
54	62.6	43.2	64.8



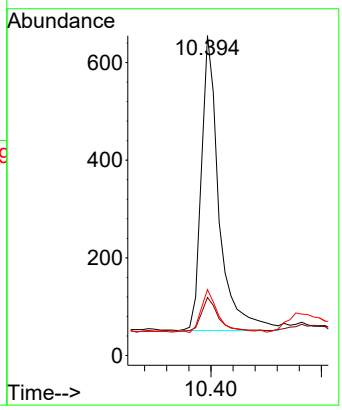


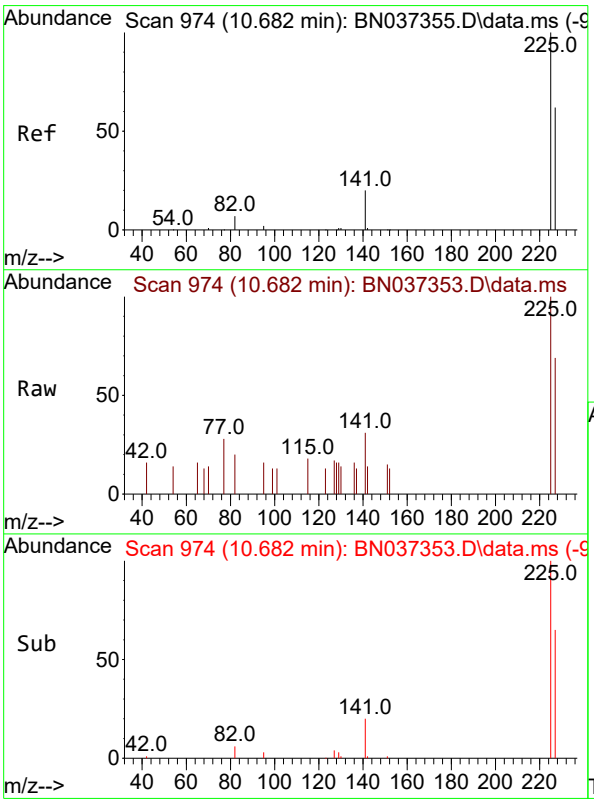
#9
Naphthalene
Concen: 0.102 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1349

Ion	Ratio	Lower	Upper
128	100		
129	18.2	14.0	21.0
127	20.6	15.8	23.8

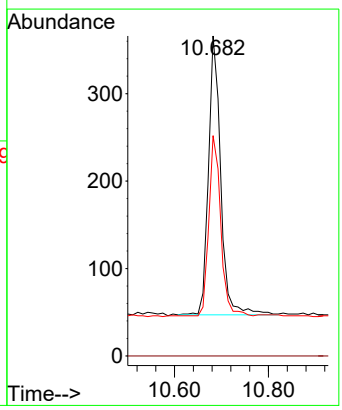


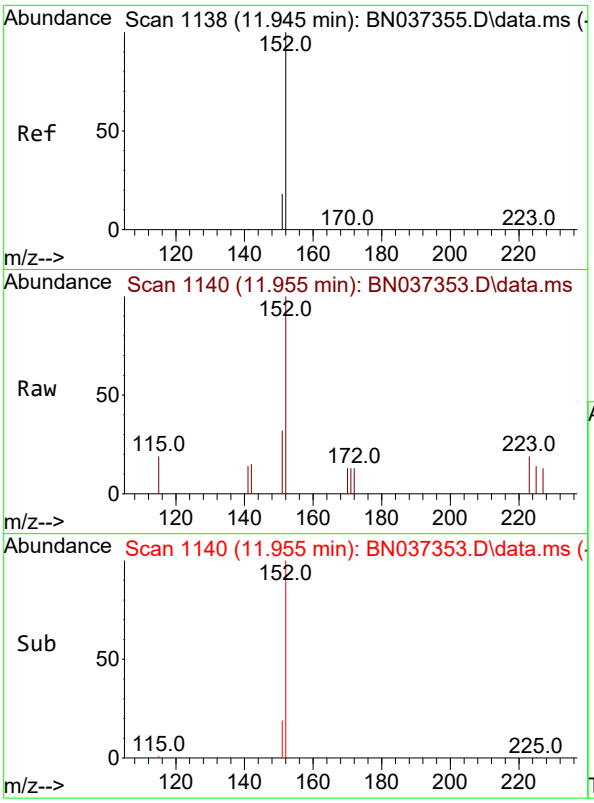


#10
Hexachlorobutadiene
Concen: 0.089 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:225 Resp: 578

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.1	50.3	75.5



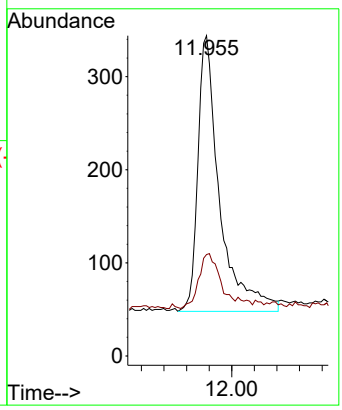


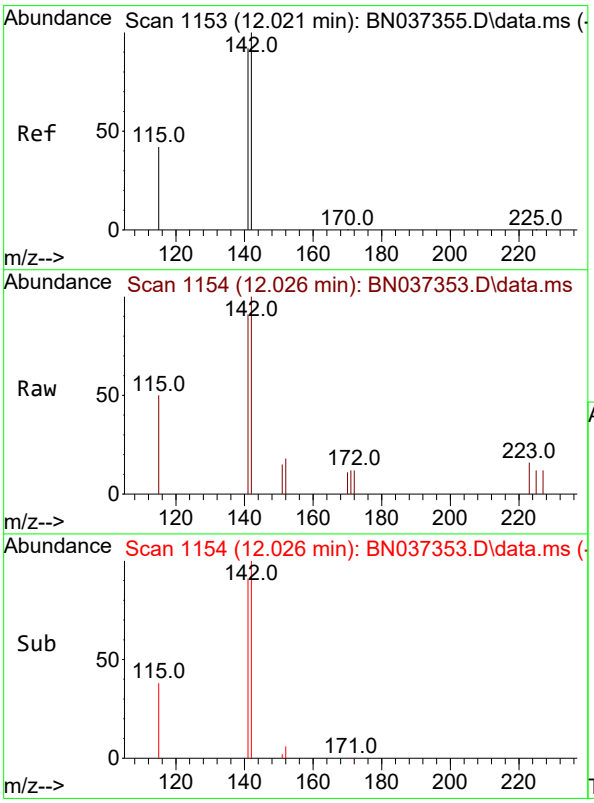
#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 791

Ion	Ratio	Lower	Upper
152	100		
151	19.5	17.4	26.0

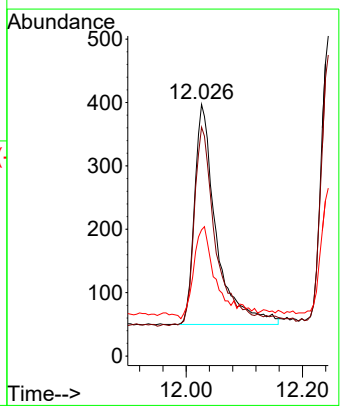


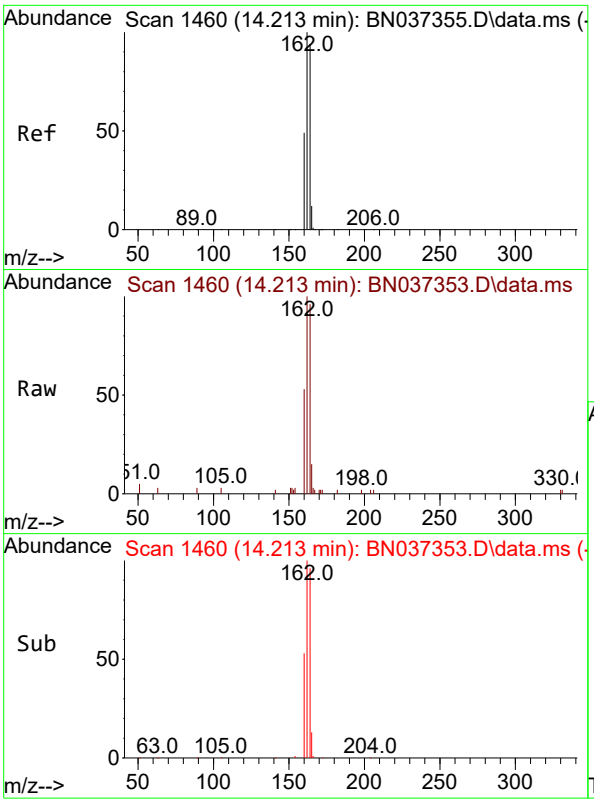


#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:142 Resp: 898

Ion	Ratio	Lower	Upper
142	100		
141	90.9	70.2	105.2
115	50.1	43.0	64.4



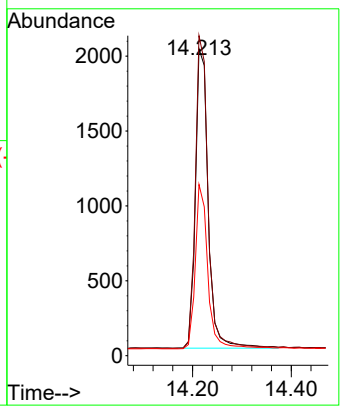


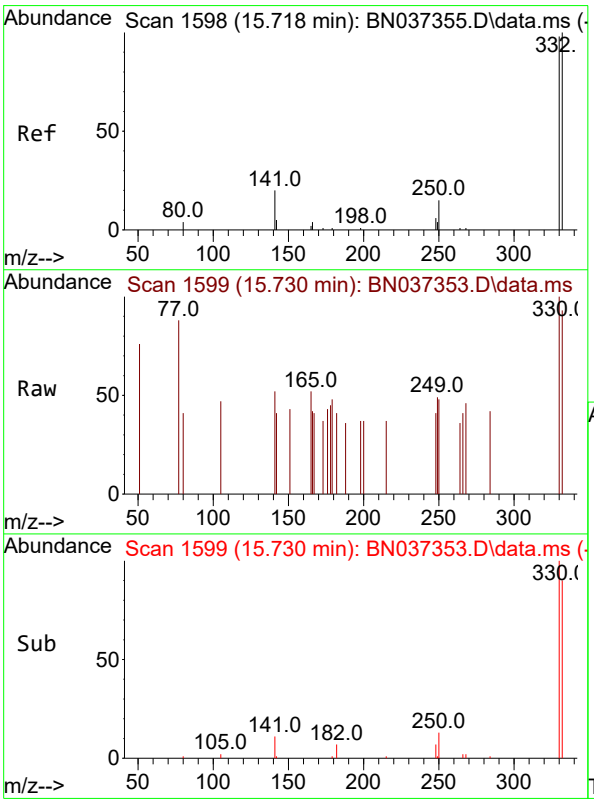
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 3596

Ion	Ratio	Lower	Upper
164	100		
162	104.3	81.5	122.3
160	55.8	43.0	64.4

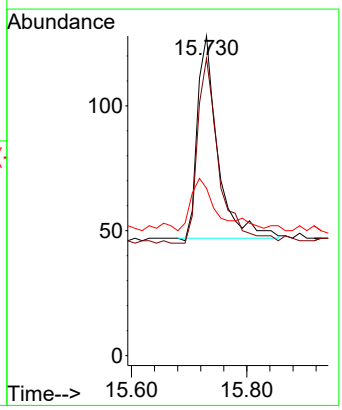


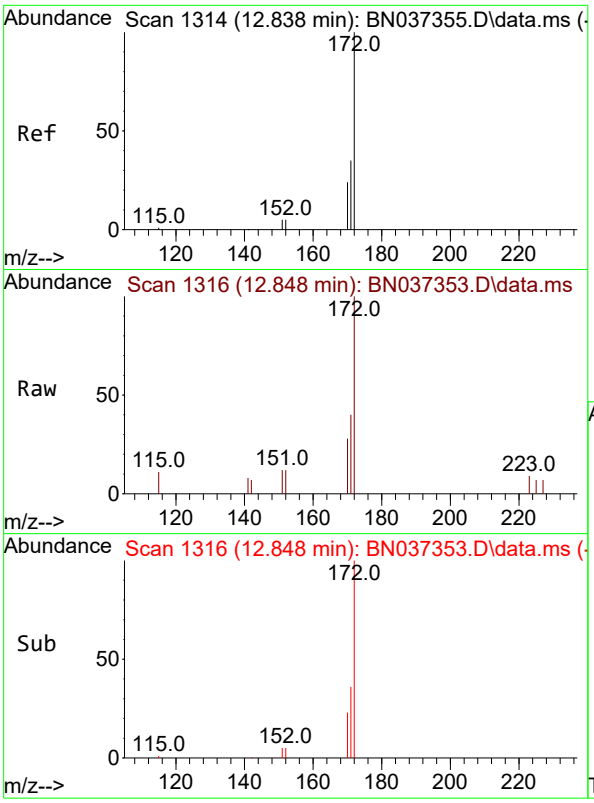


#14
2,4,6-Tribromophenol
Concen: 0.077 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:330 Resp: 197

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.4	117.6
141	33.5	24.4	36.6



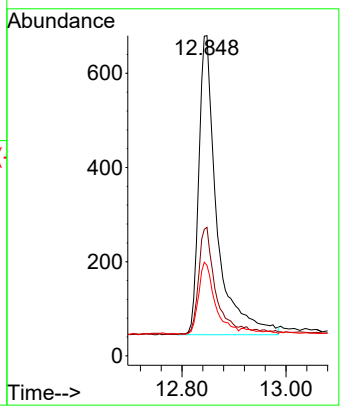


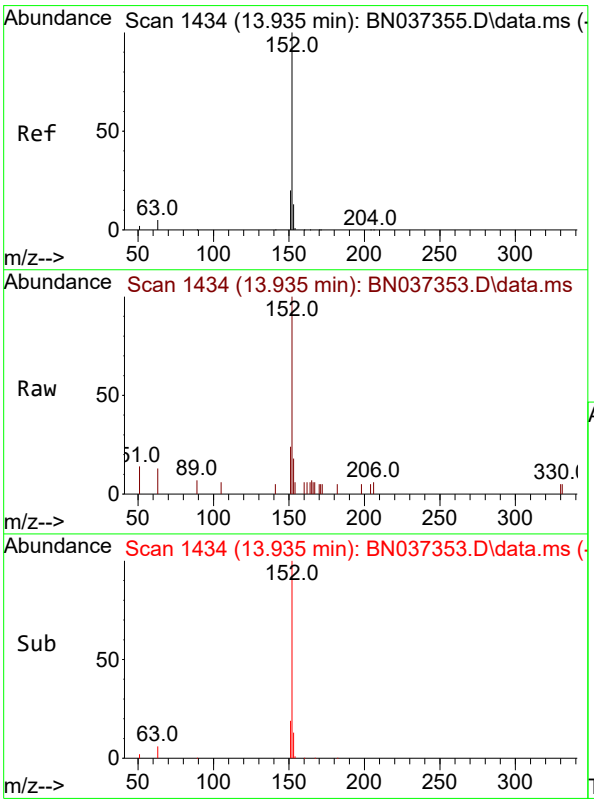
#15
2-Fluorobiphenyl
Concen: 0.097 ng
RT: 12.848 min Scan# 1
Delta R.T. 0.010 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1533

Ion	Ratio	Lower	Upper
172	100		
171	40.1	30.8	46.2
170	28.2	21.9	32.9

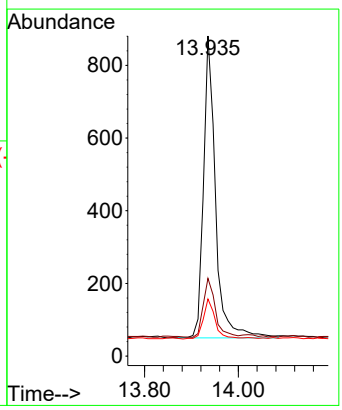


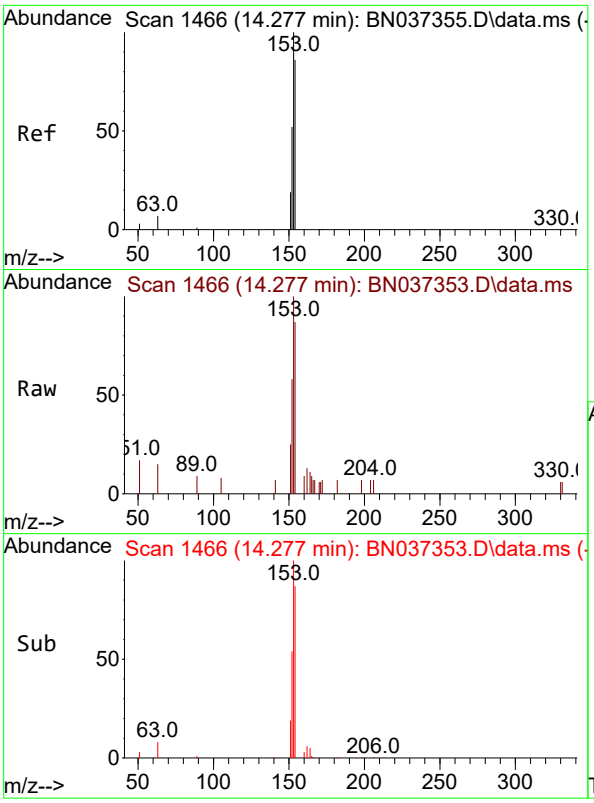


#16
Acenaphthylene
Concen: 0.098 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:152 Resp: 1480

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.6	24.8
153	13.2	10.2	15.2



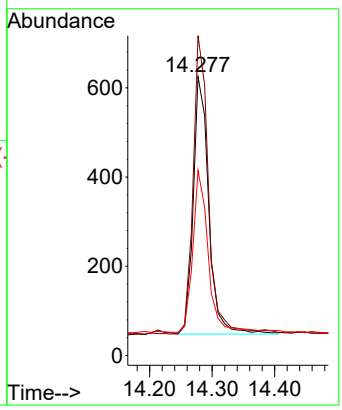


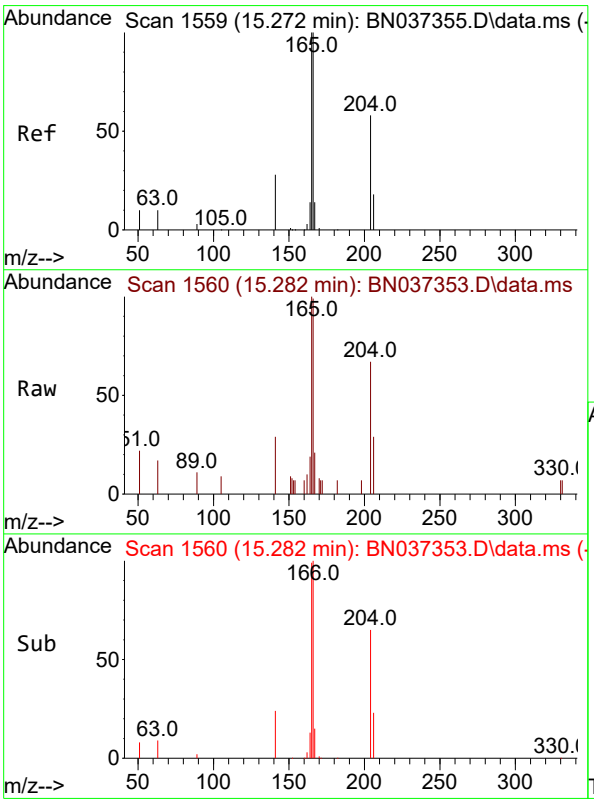
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 996

Ion	Ratio	Lower	Upper
154	100		
153	116.2	93.1	139.7
152	62.9	48.6	73.0

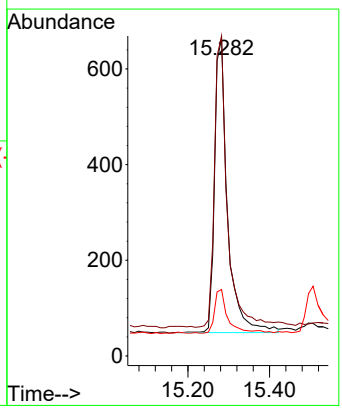


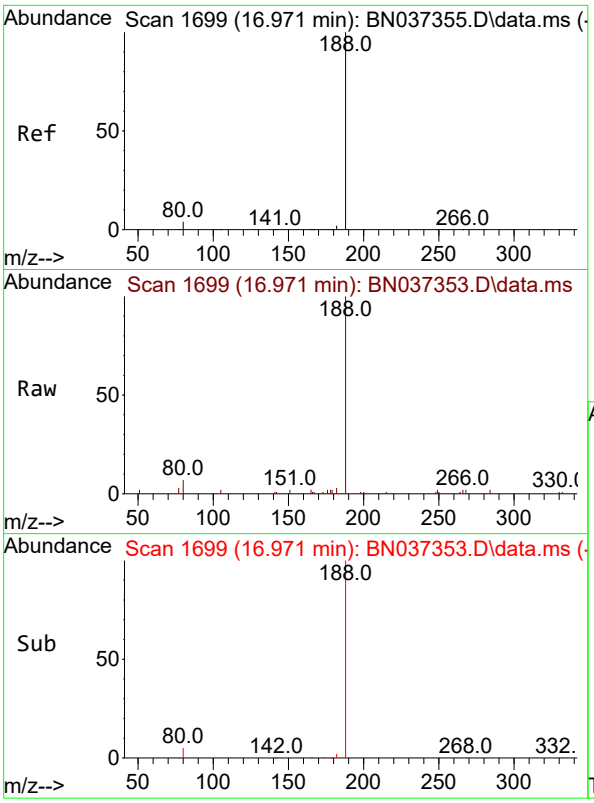


#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:166 Resp: 1348

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.5	119.3
167	15.1	10.7	16.1



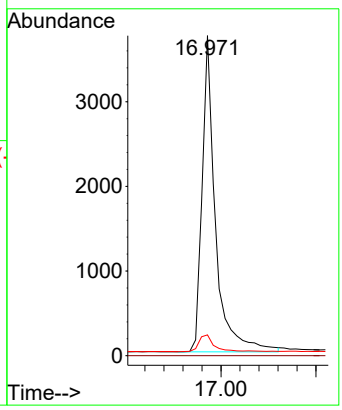


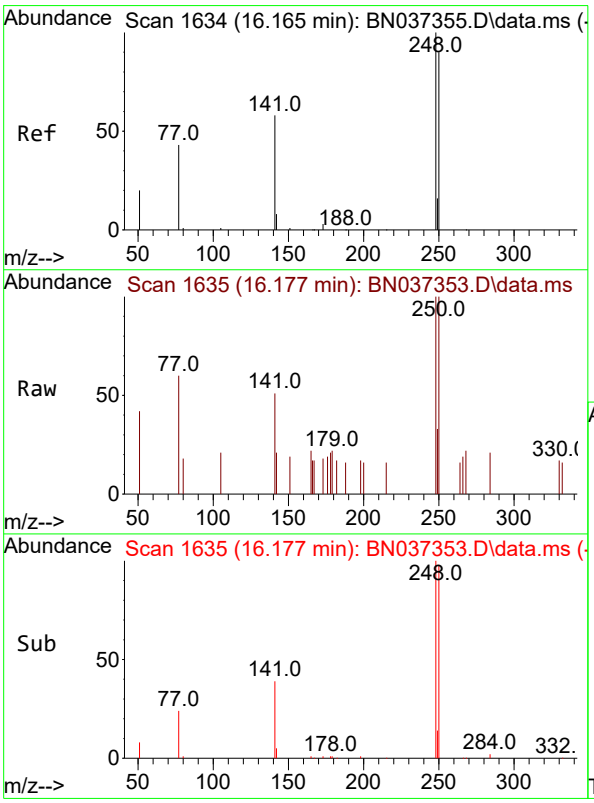
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 7299

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.5	6.2	9.2

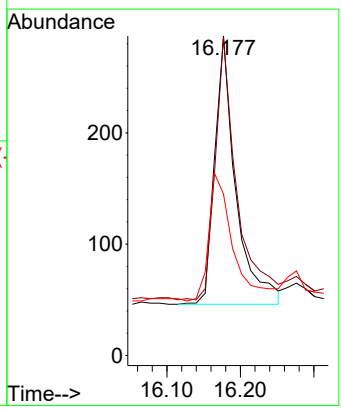


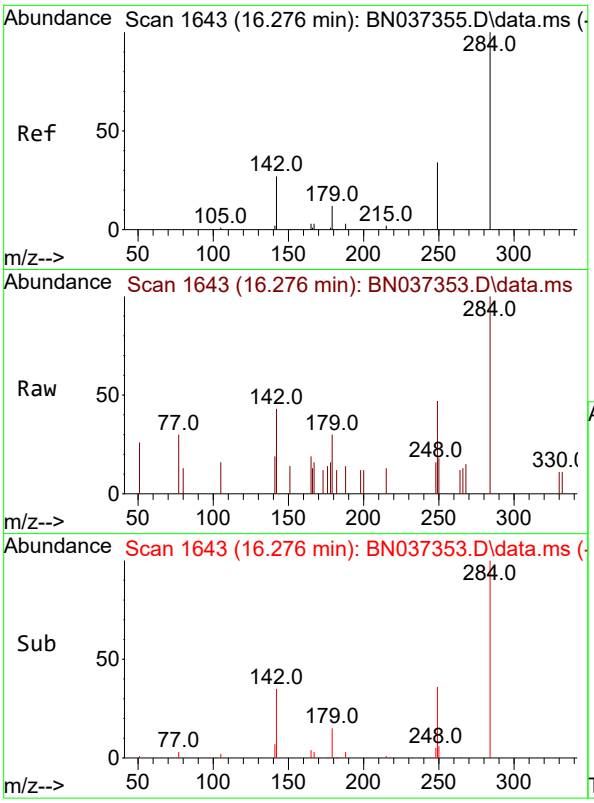


#21
4-Bromophenyl-phenylether
Concen: 0.081 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:248 Resp: 482

Ion	Ratio	Lower	Upper
248	100		
250	99.7	80.4	120.6
141	50.5	33.3	49.9#



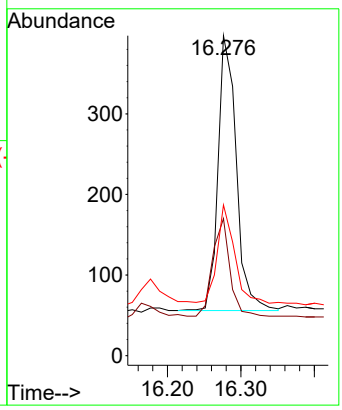


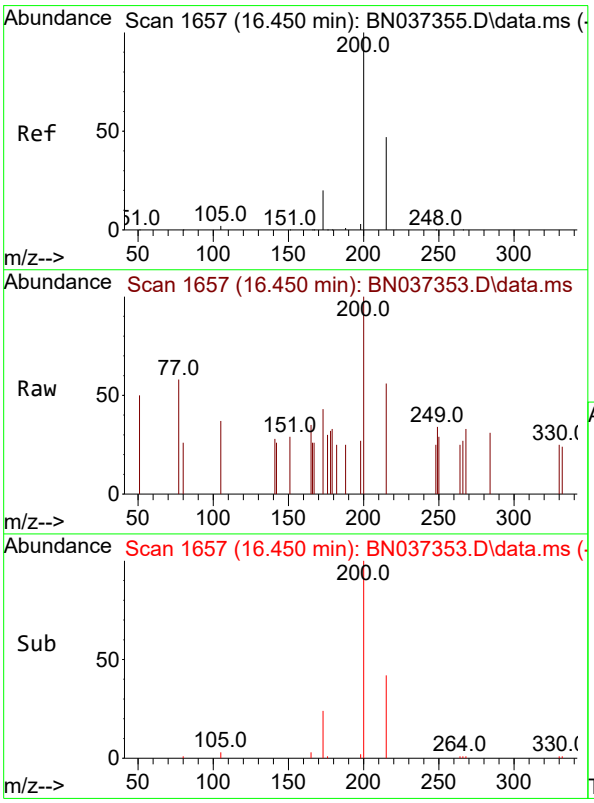
#22
Hexachlorobenzene
Concen: 0.095 ng
RT: 16.276 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:284 Resp: 588

Ion	Ratio	Lower	Upper
284	100		
142	35.9	27.0	40.6
249	36.7	28.8	43.2

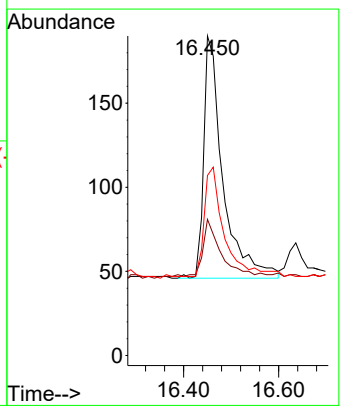


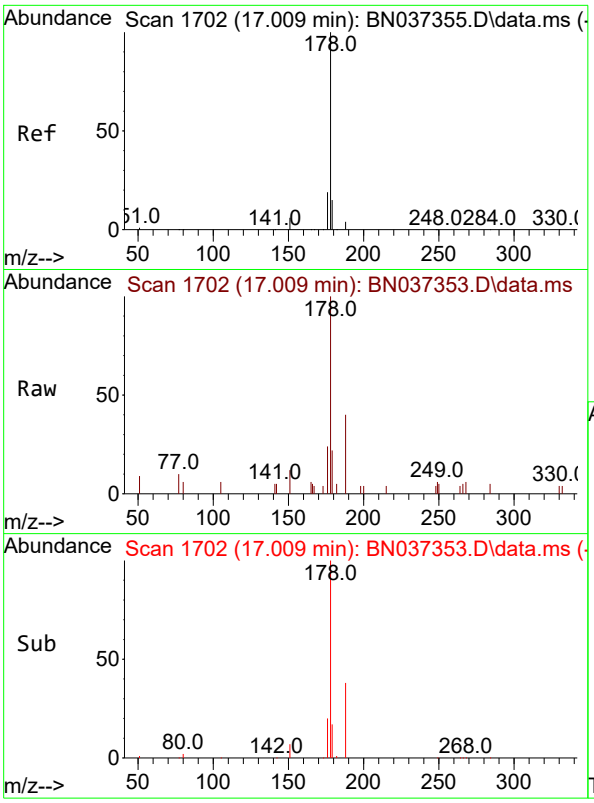


#23
Atrazine
Concen: 0.087 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:200 Resp: 404

Ion	Ratio	Lower	Upper
200	100		
173	42.6	29.2	43.8
215	56.3	48.8	73.2



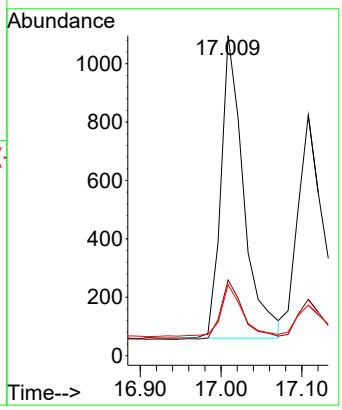


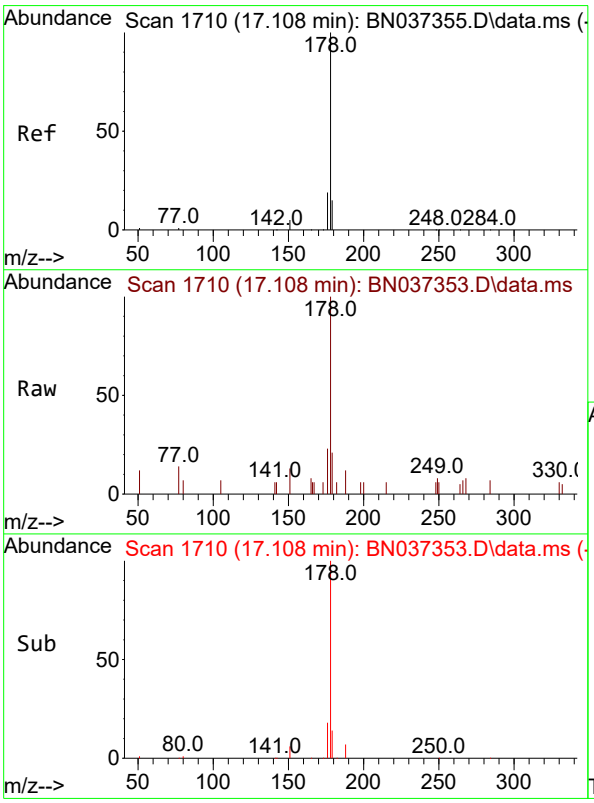
#25
Phenanthrene
Concen: 0.098 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2021

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.2	22.8
179	16.8	12.9	19.3

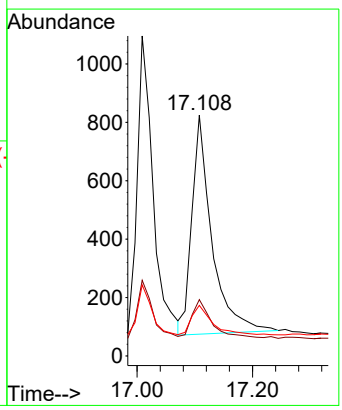


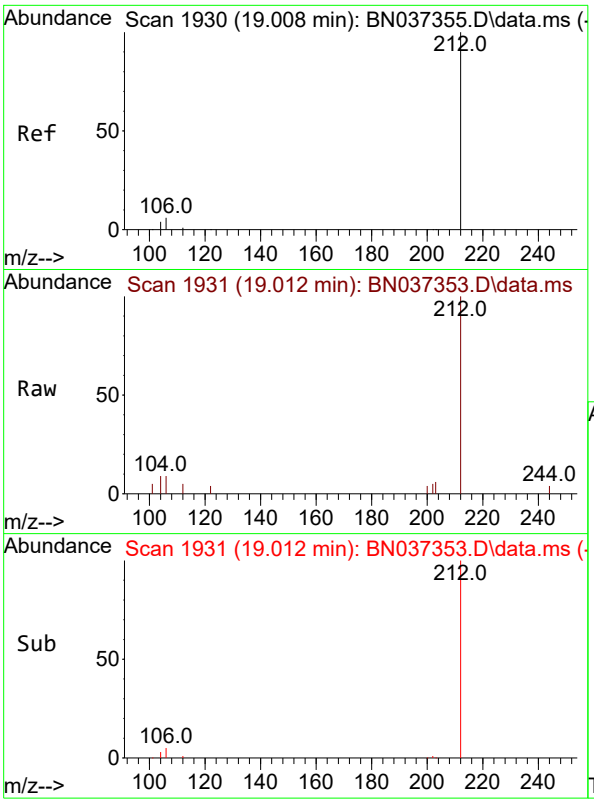


#26
Anthracene
Concen: 0.094 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:178 Resp: 1812

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.7	22.1
179	14.8	13.0	19.6



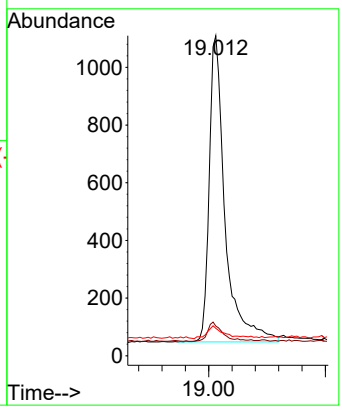


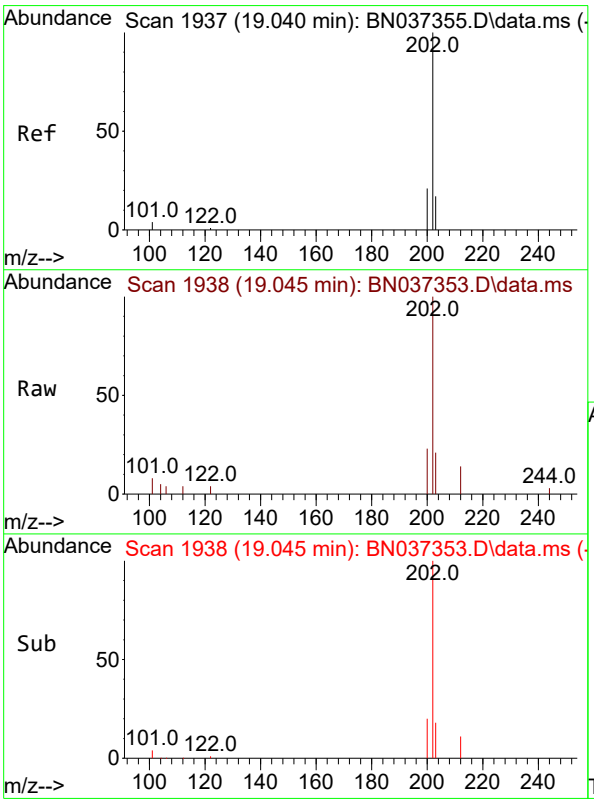
#27
Fluoranthene-d10
Concen: 0.088 ng
RT: 19.012 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 2001

Ion	Ratio	Lower	Upper
212	100		
106	5.8	3.0	4.4#
104	4.1	2.0	3.0#

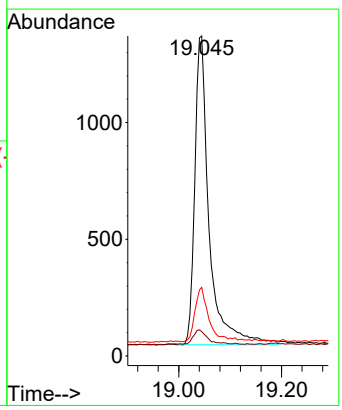


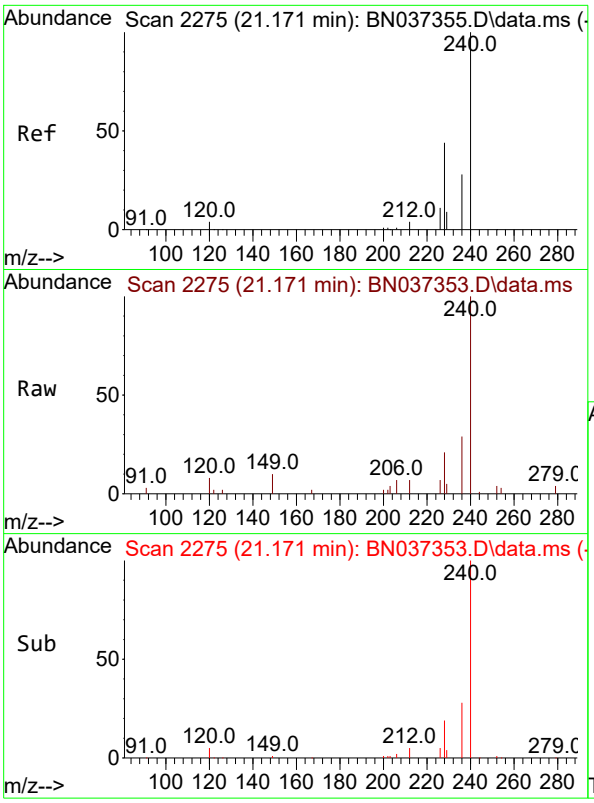


#28
Fluoranthene
Concen: 0.091 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.005 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:202 Resp: 2576

Ion	Ratio	Lower	Upper
202	100		
101	4.7	3.0	4.6#
203	17.5	13.7	20.5



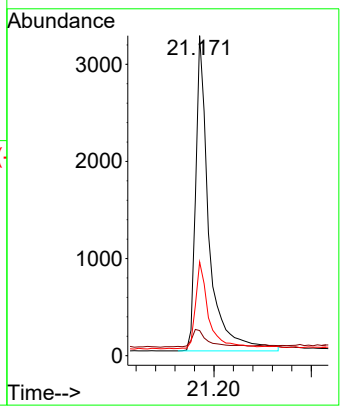


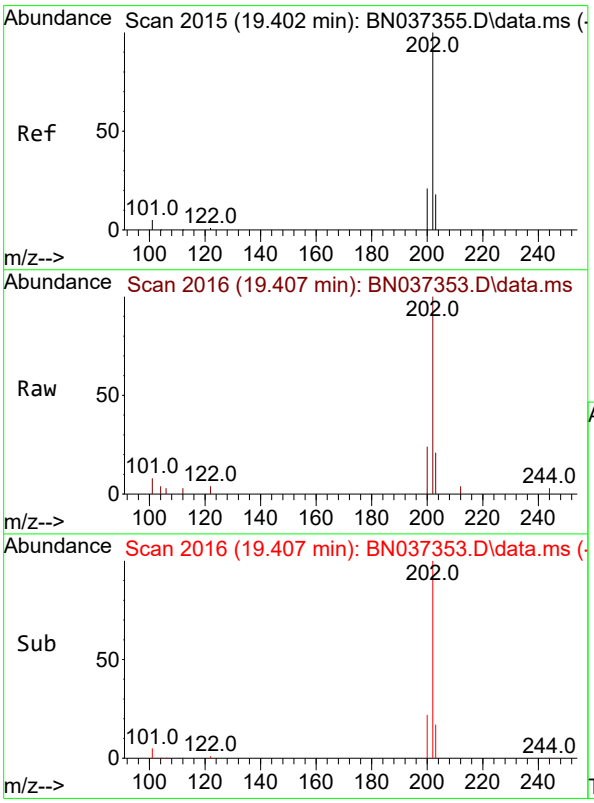
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 6135

Ion	Ratio	Lower	Upper
240	100		
120	7.9	7.5	11.3
236	29.3	24.9	37.3

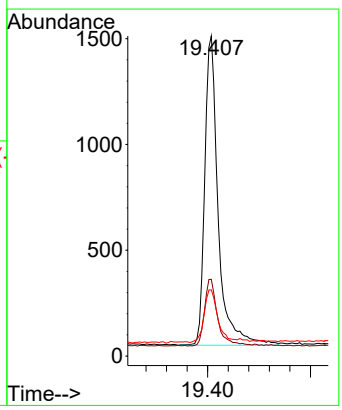


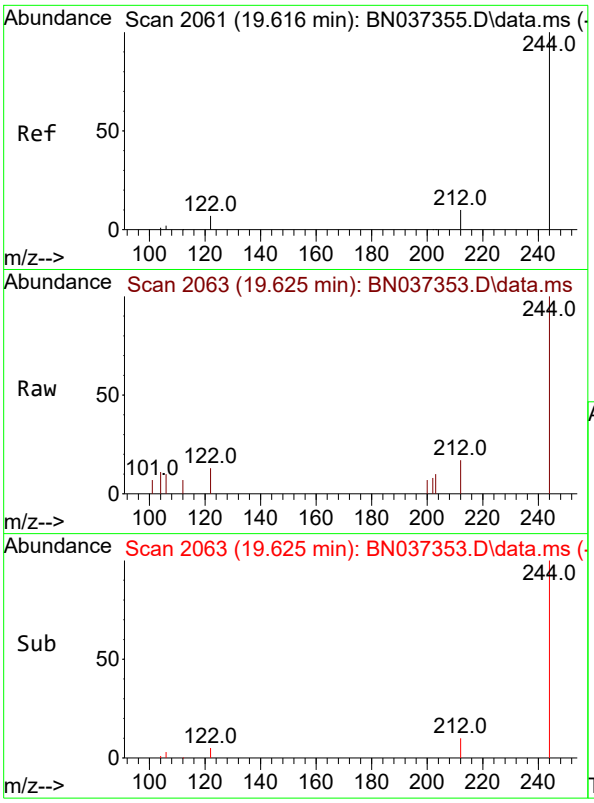


#30
Pyrene
Concen: 0.113 ng
RT: 19.407 min Scan# 2016
Delta R.T. 0.005 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:202 Resp: 2647

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.4	14.5	21.7



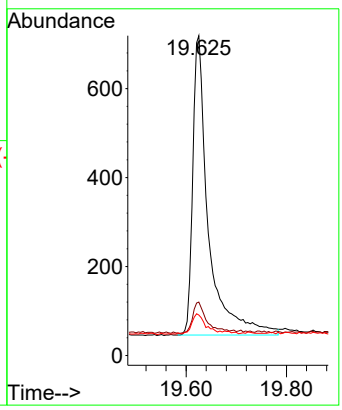


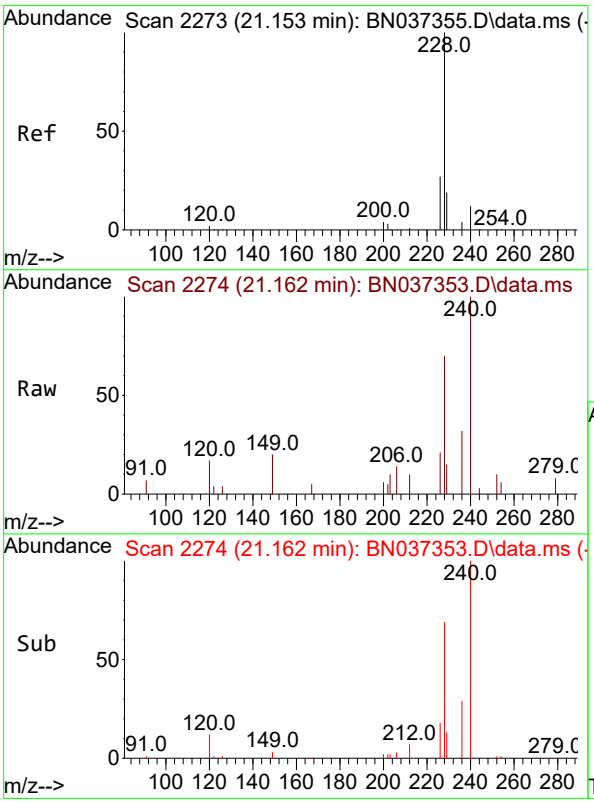
#31
Terphenyl-d14
Concen: 0.104 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 1456

Ion	Ratio	Lower	Upper
244	100		
212	16.7	11.1	16.7#
122	12.7	7.2	10.8#

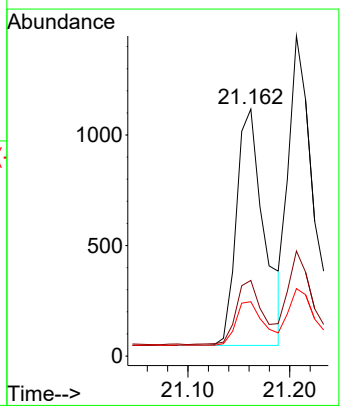


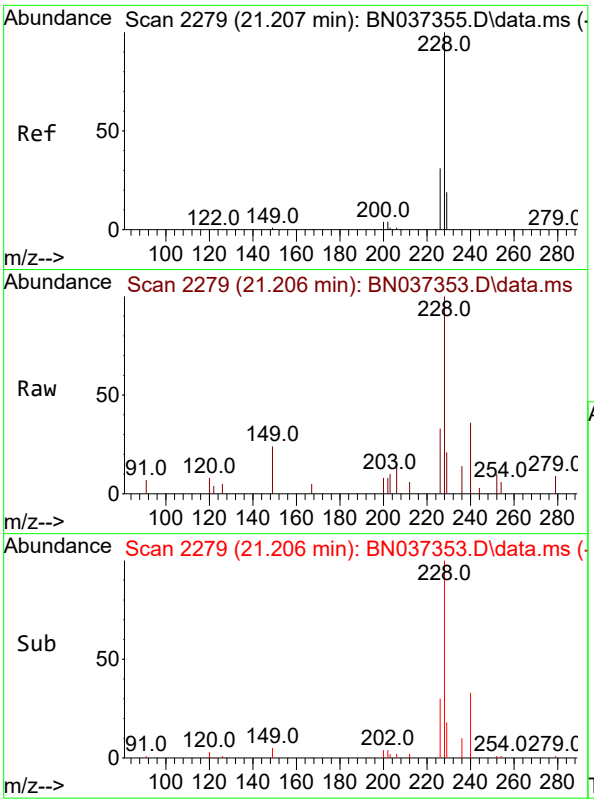


#32
Benzo(a)anthracene
Concen: 0.101 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:228 Resp: 2007

Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.0	34.4
229	22.0	17.4	26.0



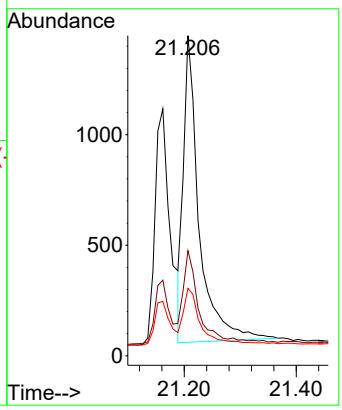


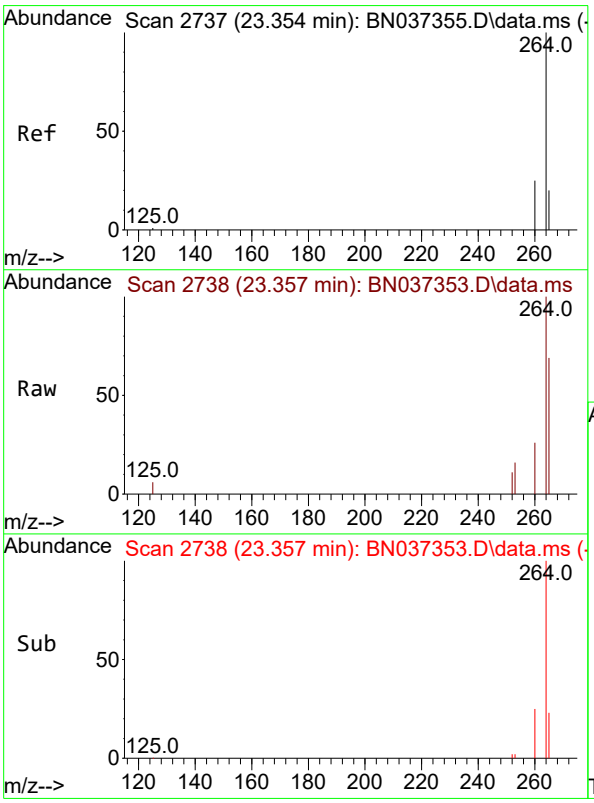
#33
Chrysene
Concen: 0.107 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 2687

Ion	Ratio	Lower	Upper
228	100		
226	32.8	25.4	38.2
229	21.1	17.3	25.9

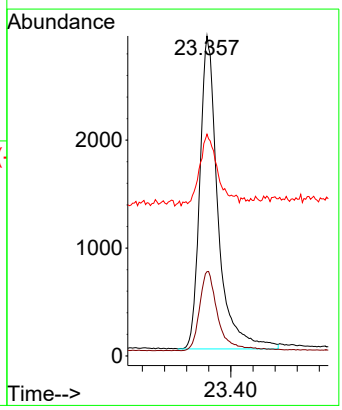


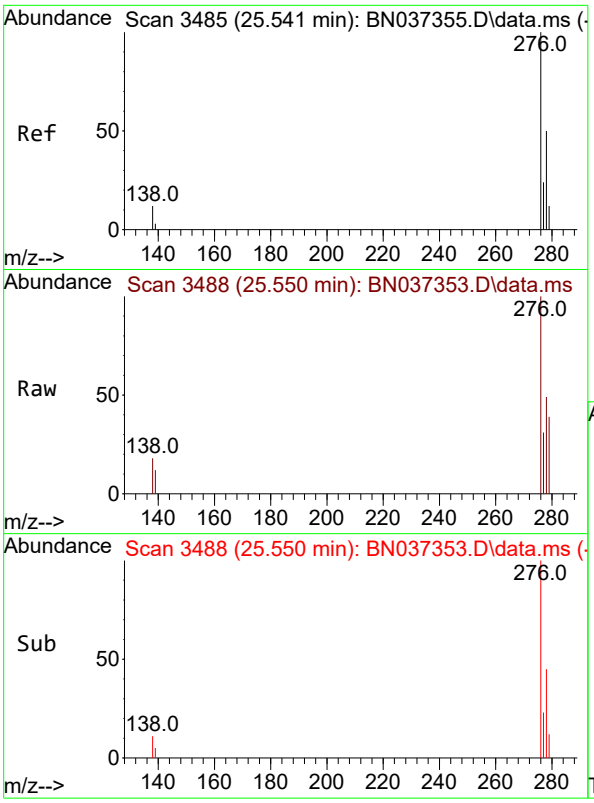


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. 0.003 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:264 Resp: 6598

Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.4	32.2
265	69.3	71.4	107.0#



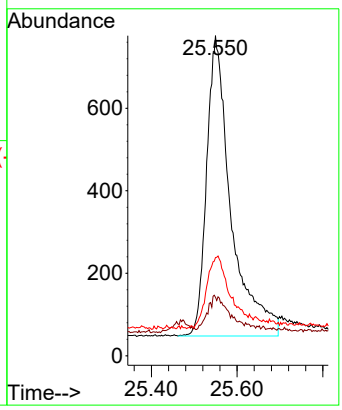


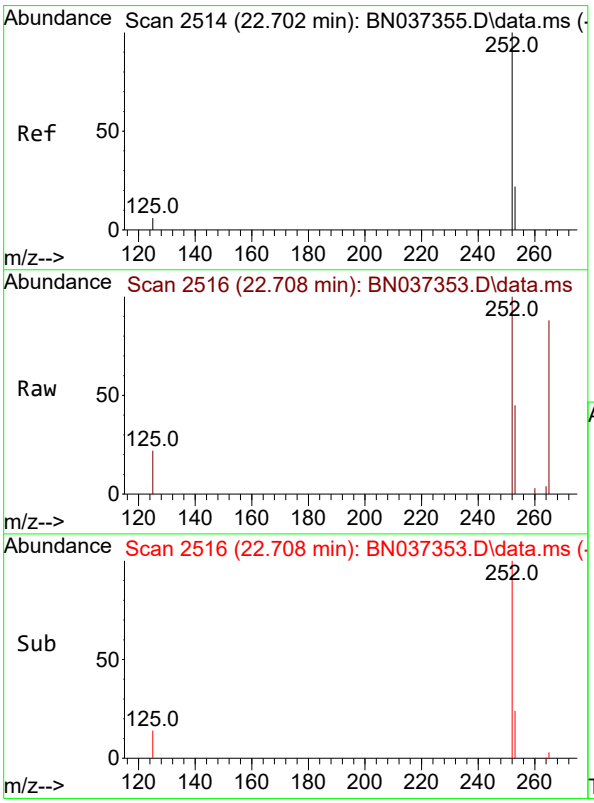
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.103 ng
RT: 25.550 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 2871

Ion	Ratio	Lower	Upper
276	100		
138	4.2	2.2	3.2#
277	22.3	17.1	25.7

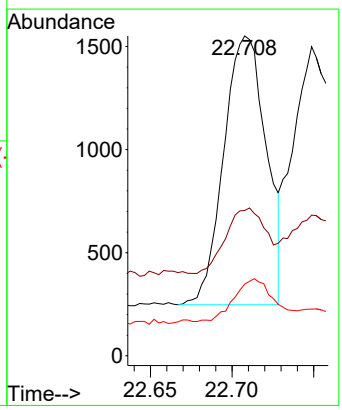


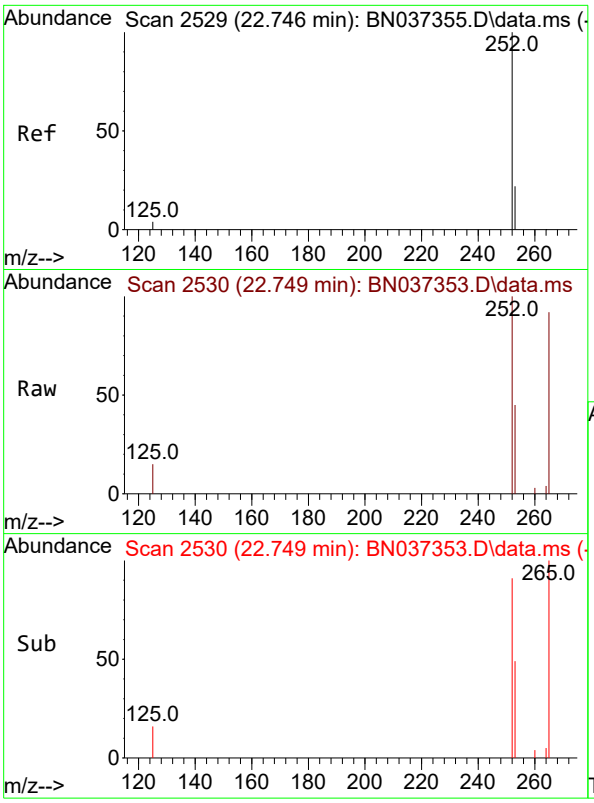


#37
Benzo(b)fluoranthene
Concen: 0.101 ng
RT: 22.708 min Scan# 2516
Delta R.T. 0.006 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:252 Resp: 2355

Ion	Ratio	Lower	Upper
252	100		
253	45.5	26.6	40.0#
125	22.4	6.1	9.1#



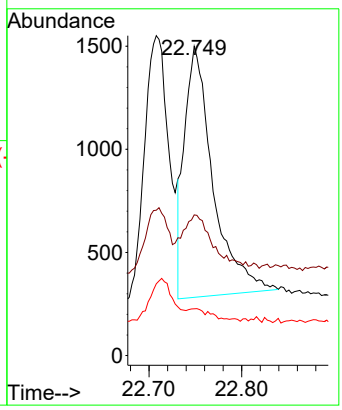


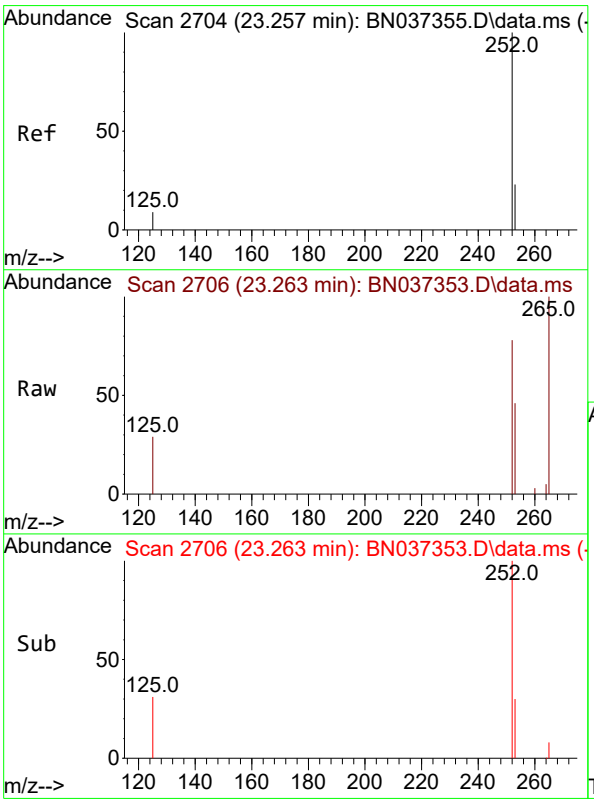
#38
Benzo(k)fluoranthene
Concen: 0.102 ng
RT: 22.749 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 2600

Ion	Ratio	Lower	Upper
252	100		
253	45.5	26.7	40.1#
125	15.1	6.5	9.7#

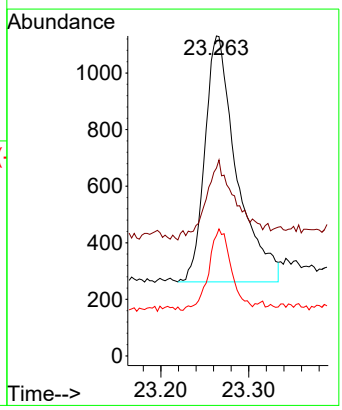


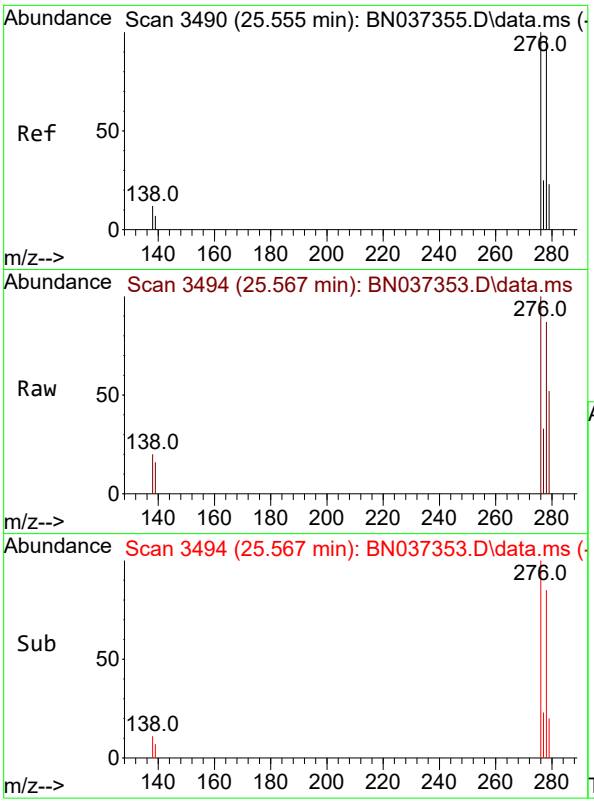


#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 23.263 min Scan# 2706
Delta R.T. 0.006 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:252 Resp: 2178

Ion	Ratio	Lower	Upper
252	100		
253	58.7	31.6	47.4#
125	37.6	8.4	12.6#



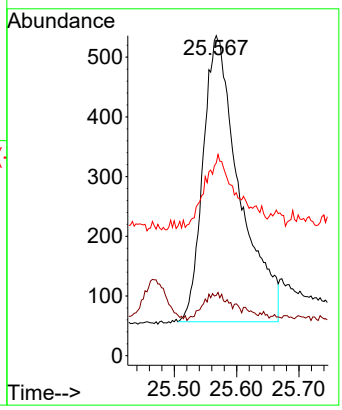


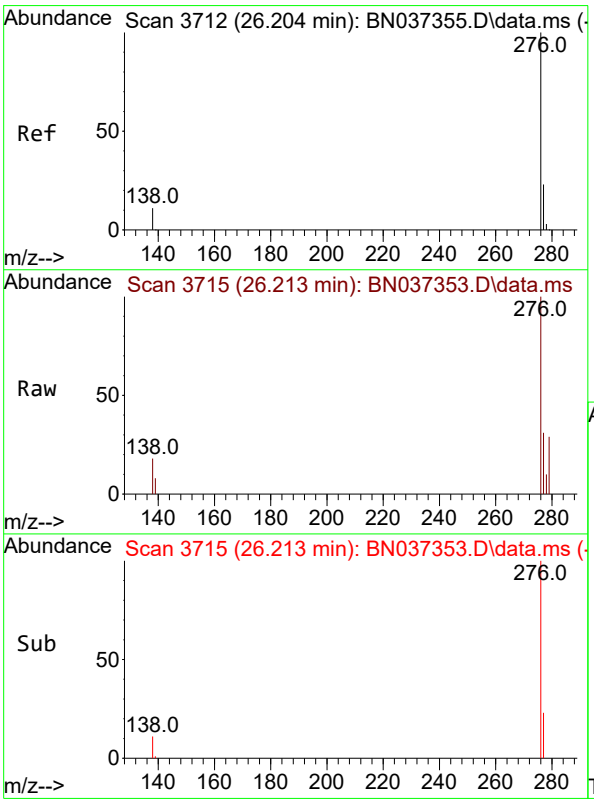
#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.567 min Scan# 34
Delta R.T. 0.012 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:278 Resp: 1944

Ion	Ratio	Lower	Upper
278	100		
139	18.8	10.2	15.4#
279	60.3	35.6	53.4#

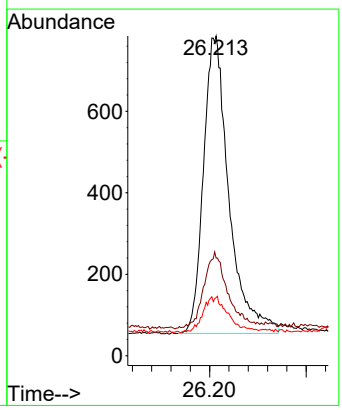




#41
Benzo(g,h,i)perylene
Concen: 0.104 ng
RT: 26.213 min Scan# 3715
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:276 Resp: 2673

Ion	Ratio	Lower	Upper
276	100		
277	30.6	22.7	34.1
138	18.2	9.4	14.2#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037354.D
Acq On : 20 Jun 2025 17:27
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 20 23:26:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	1865	0.400	ng		0.00
7) Naphthalene-d8	10.351	136	3983	0.400	ng	#	0.01
13) Acenaphthene-d10	14.213	164	2790	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5628	0.400	ng		0.00
29) Chrysene-d12	21.171	240	4640	0.400	ng		0.00
35) Perylene-d12	23.354	264	4914	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	763	0.224	ng		0.00
5) Phenol-d6	6.752	99	714	0.212	ng		0.00
8) Nitrobenzene-d5	8.728	82	582	0.176	ng		0.01
11) 2-Methylnaphthalene-d10	11.950	152	1271	0.197	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	315	0.158	ng		0.01
15) 2-Fluorobiphenyl	12.843	172	2337	0.191	ng		0.00
27) Fluoranthene-d10	19.008	212	3010	0.172	ng		0.00
31) Terphenyl-d14	19.621	244	2114	0.200	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	472	0.287	ng		98
3) n-Nitrosodimethylamine	3.422	42	366	0.191	ng	#	79
6) bis(2-Chloroethyl)ether	7.012	93	509	0.172	ng		95
9) Naphthalene	10.394	128	2104	0.204	ng		94
10) Hexachlorobutadiene	10.682	225	864	0.171	ng	#	99
12) 2-Methylnaphthalene	12.026	142	1379	0.190	ng		93
16) Acenaphthylene	13.935	152	2282	0.195	ng		97
17) Acenaphthene	14.277	154	1492	0.192	ng		99
18) Fluorene	15.282	166	2051	0.186	ng		100
20) 4,6-Dinitro-2-methylph...	15.378	198	196	0.115	ng	#	68
21) 4-Bromophenyl-phenylether	16.177	248	750	0.163	ng		96
22) Hexachlorobenzene	16.276	284	898	0.187	ng		98
23) Atrazine	16.450	200	604	0.168	ng		96
24) Pentachlorophenol	16.636	266	369	0.140	ng		97
25) Phenanthrene	17.009	178	3024	0.190	ng		98
26) Anthracene	17.108	178	2769	0.186	ng		97
28) Fluoranthene	19.040	202	3780	0.174	ng	#	98
30) Pyrene	19.402	202	3921	0.221	ng		99
32) Benzo(a)anthracene	21.153	228	2710	0.181	ng		98
33) Chrysene	21.206	228	3959	0.208	ng		99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1406	0.229	ng		98
36) Indeno(1,2,3-cd)pyrene	25.547	276	4213	0.202	ng	#	95
37) Benzo(b)fluoranthene	22.702	252	3390	0.195	ng	#	90
38) Benzo(k)fluoranthene	22.746	252	3913	0.207	ng	#	90
39) Benzo(a)pyrene	23.260	252	3070	0.193	ng	#	79
40) Dibenzo(a,h)anthracene	25.564	278	2911	0.175	ng	#	93
41) Benzo(g,h,i)perylene	26.207	276	3819	0.200	ng	#	96

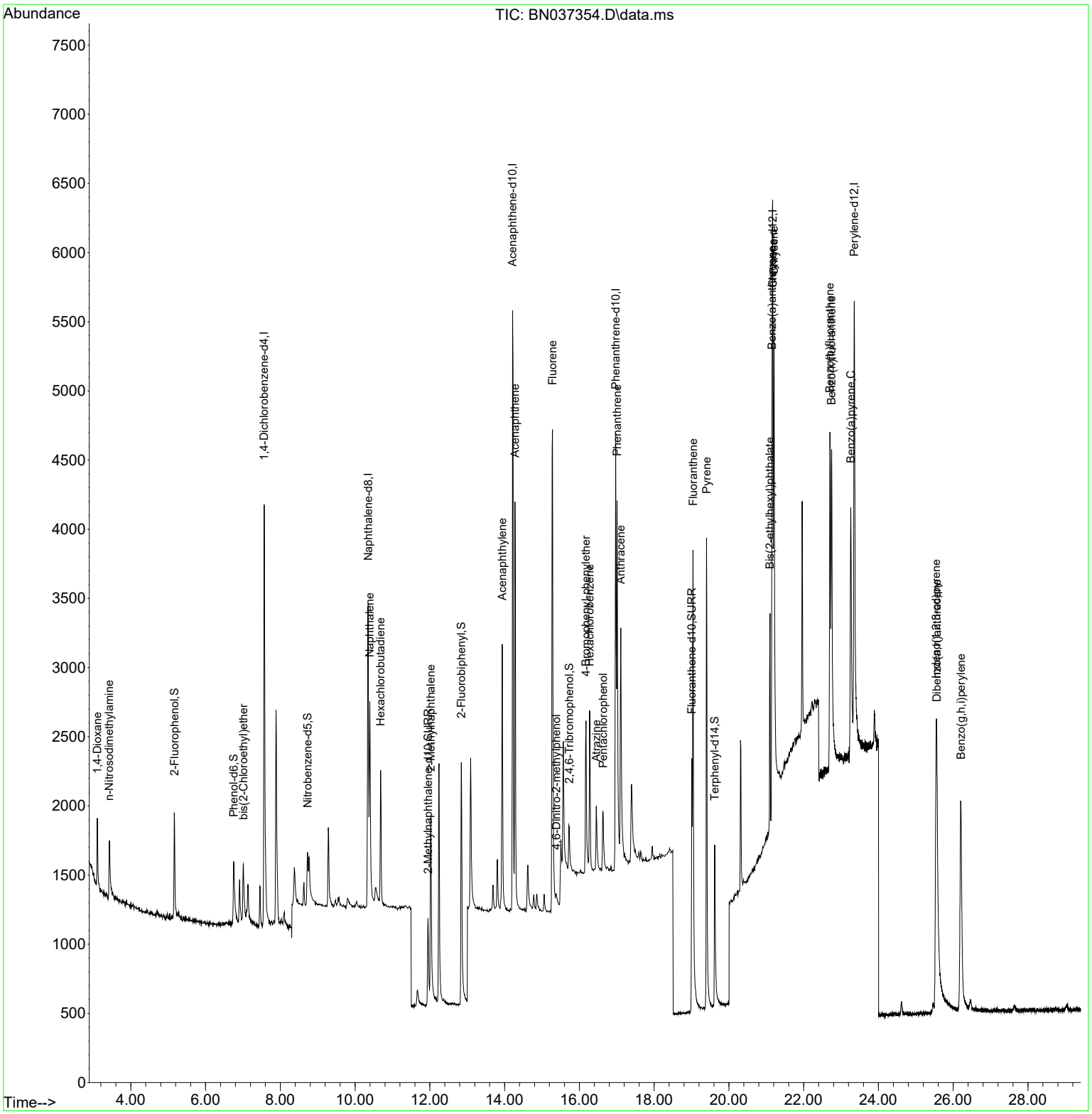
(#) = qualifier out of range (m) = manual integration (+) = signals summed

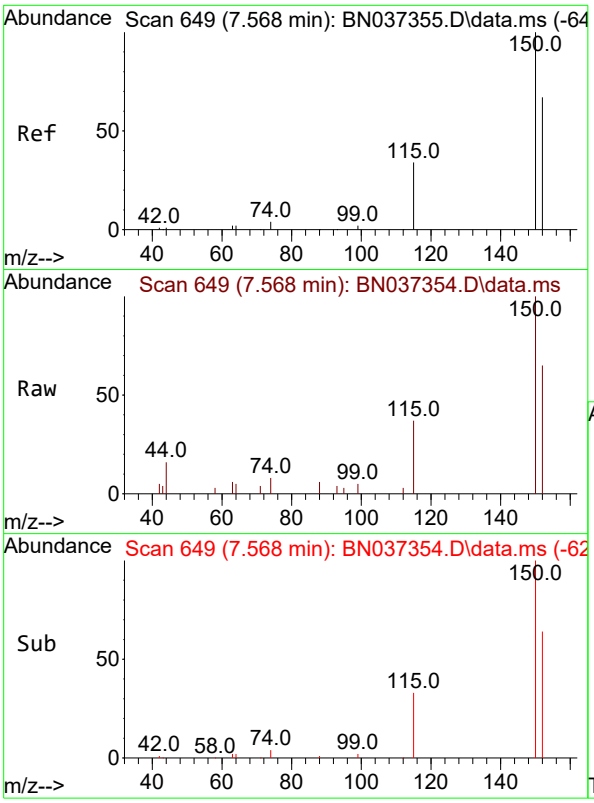
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037354.D
Acq On : 20 Jun 2025 17:27
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 20 23:26:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



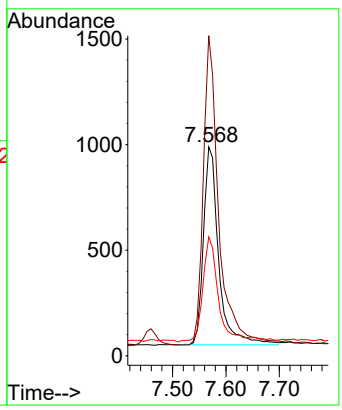


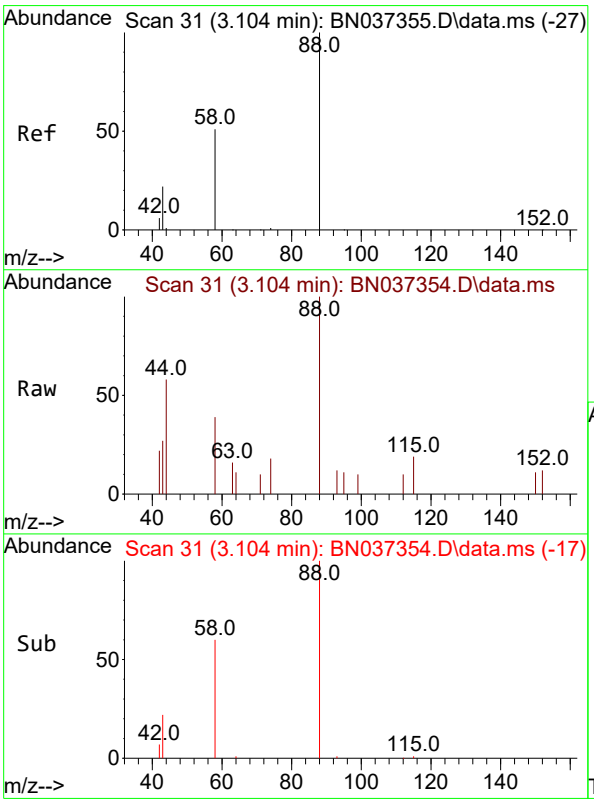
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1865

Ion	Ratio	Lower	Upper
152	100		
150	153.3	112.7	169.1
115	56.9	45.9	68.9

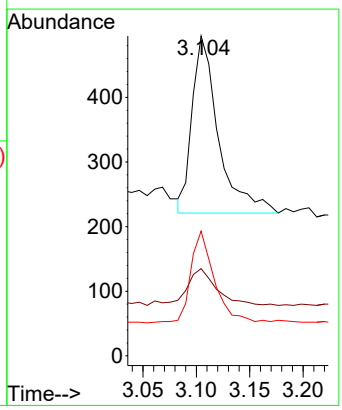


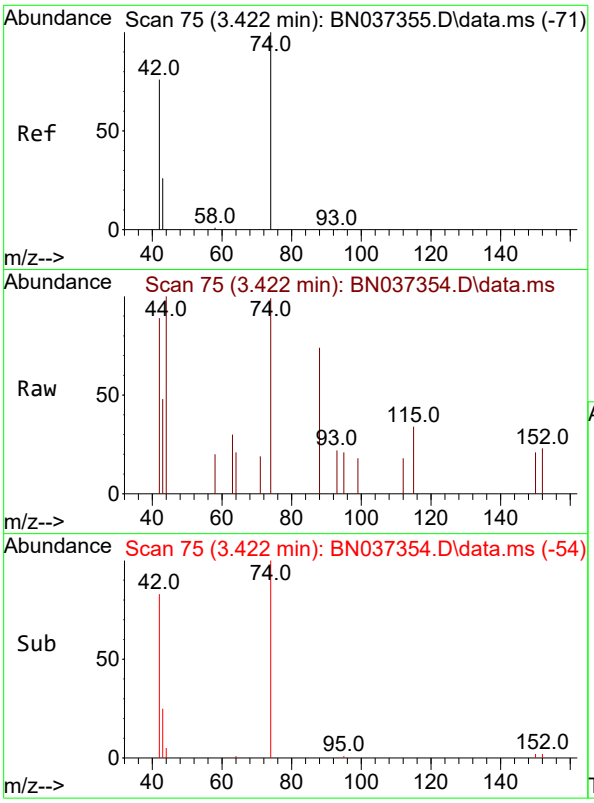


#2
1,4-Dioxane
Concen: 0.287 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion: 88 Resp: 472

Ion	Ratio	Lower	Upper
88	100		
43	23.9	21.0	31.6
58	46.8	38.0	57.0



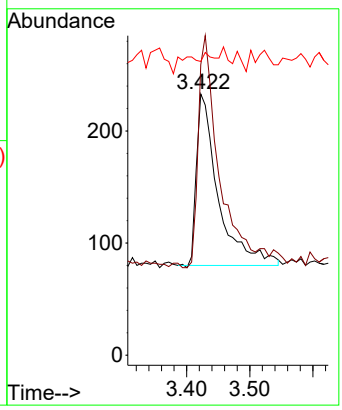


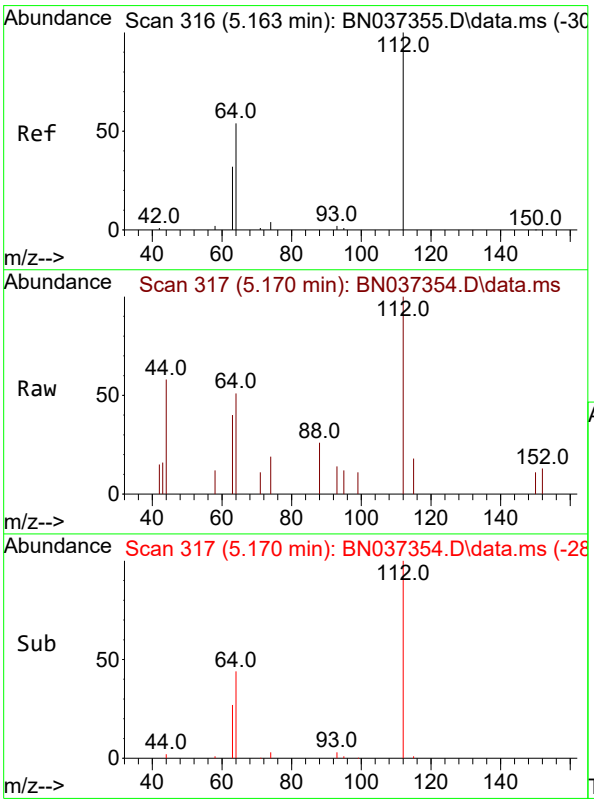
#3
n-Nitrosodimethylamine
Concen: 0.191 ng
RT: 3.422 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 366

Ion	Ratio	Lower	Upper
42	100		
74	128.1	84.3	126.5#
44	2.5	5.0	7.4#

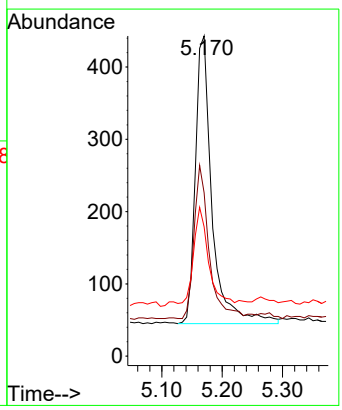


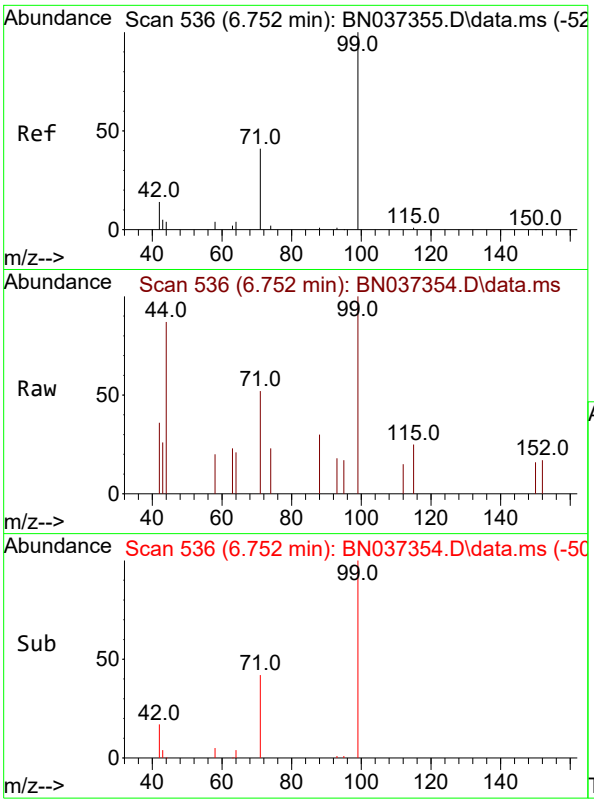


#4
2-Fluorophenol
Concen: 0.224 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:112 Resp: 763

Ion	Ratio	Lower	Upper
112	100		
64	48.2	38.7	58.1
63	32.4	26.4	39.6



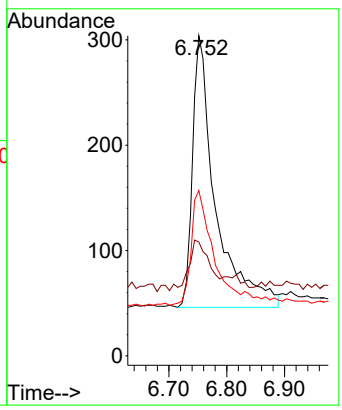


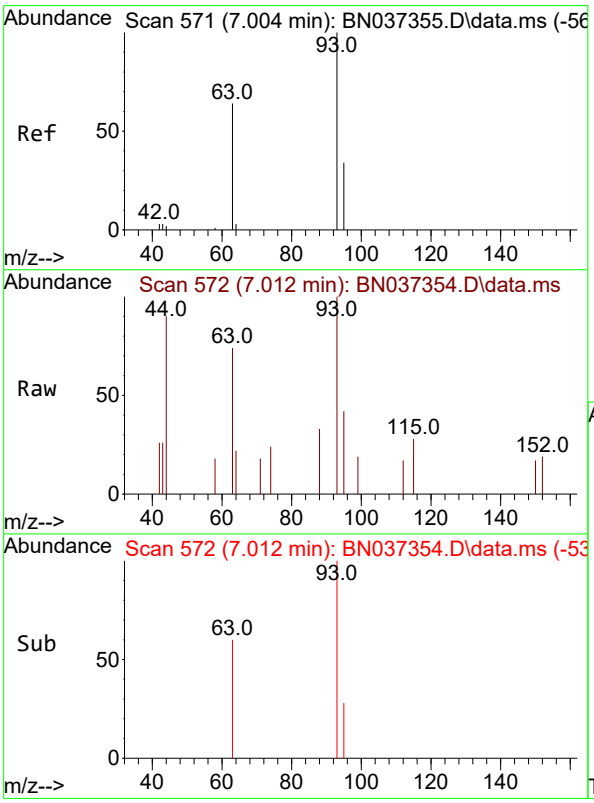
#5
Phenol-d6
Concen: 0.212 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 714

Ion	Ratio	Lower	Upper
99	100		
42	16.2	19.8	29.8#
71	44.0	42.6	64.0

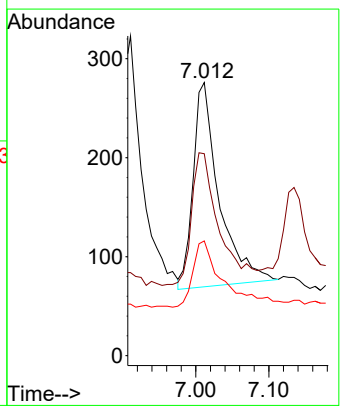


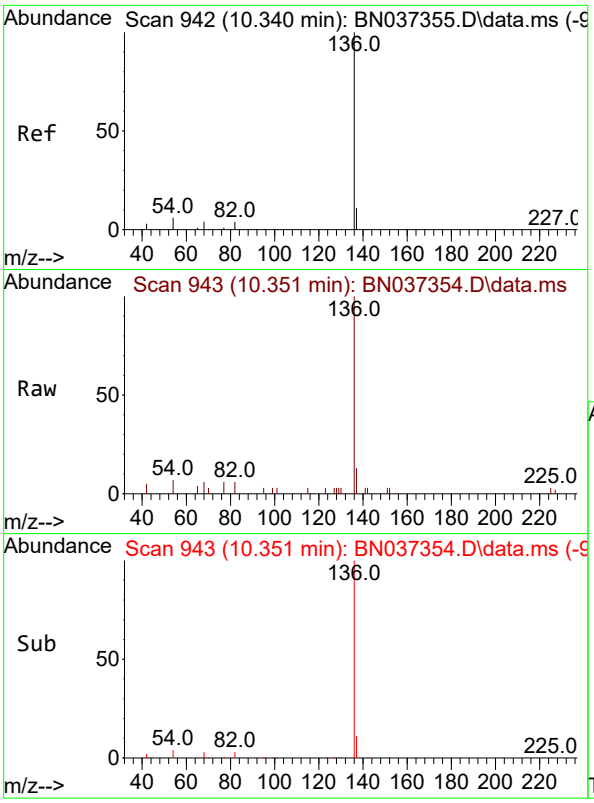


#6
bis(2-Chloroethyl)ether
Concen: 0.172 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.007 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion: 93 Resp: 509

Ion	Ratio	Lower	Upper
93	100		
63	69.4	53.2	79.8
95	38.3	27.3	40.9



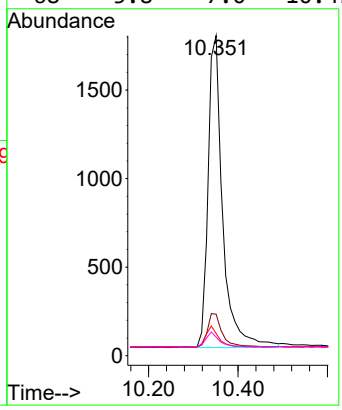


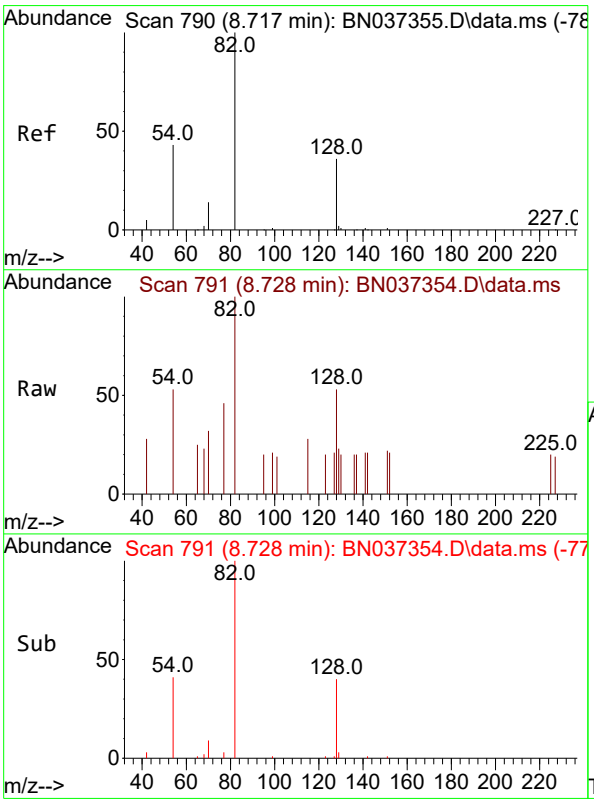
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 3983

Ion	Ratio	Lower	Upper
136	100		
137	12.9	12.2	18.2
54	7.0	8.8	13.2#
68	5.8	7.0	10.4#

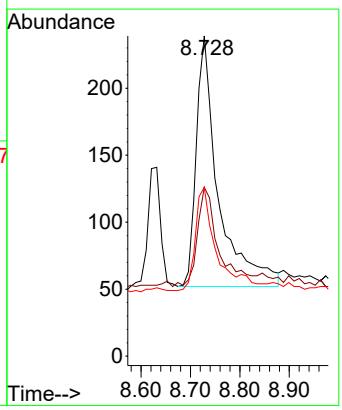


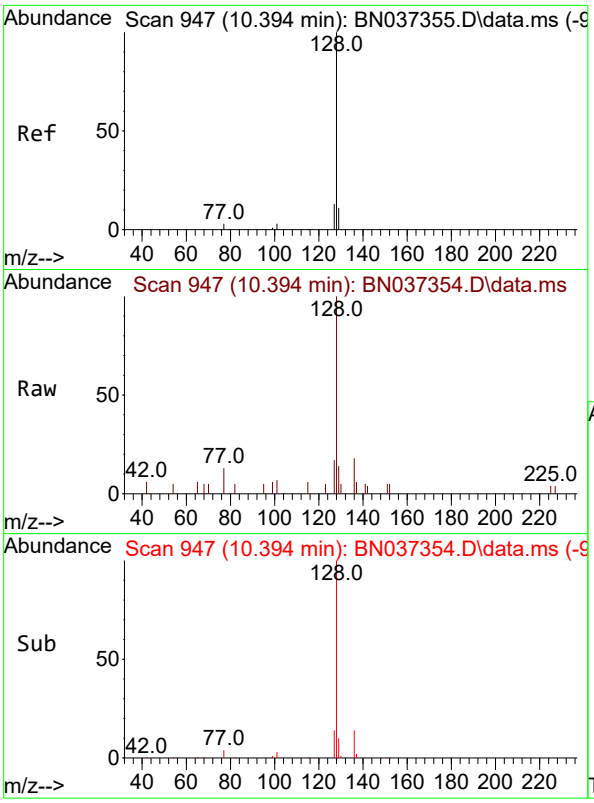


#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion: 82 Resp: 582

Ion	Ratio	Lower	Upper
82	100		
128	52.7	42.5	63.7
54	52.7	43.2	64.8



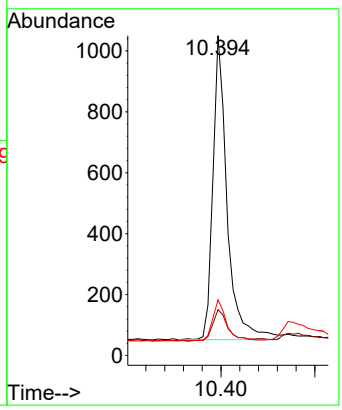


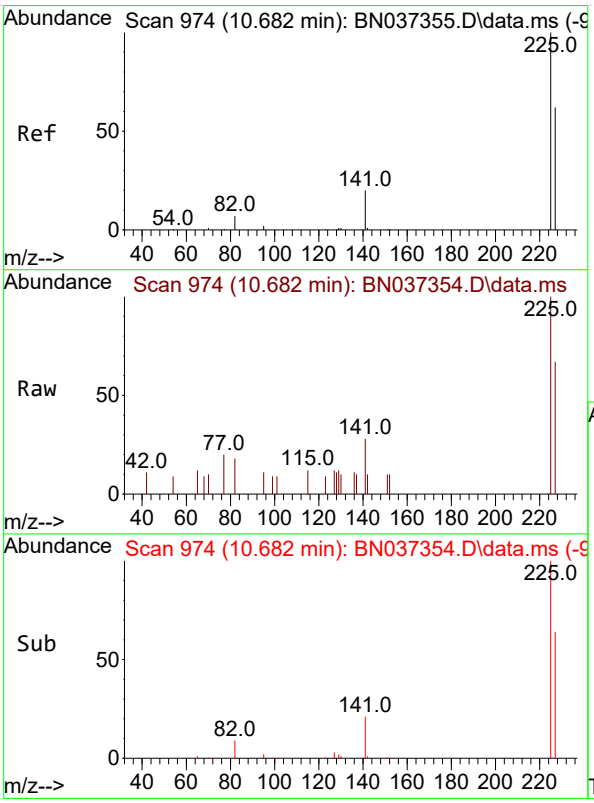
#9
Naphthalene
Concen: 0.204 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2104

Ion	Ratio	Lower	Upper
128	100		
129	14.4	14.0	21.0
127	17.4	15.8	23.8

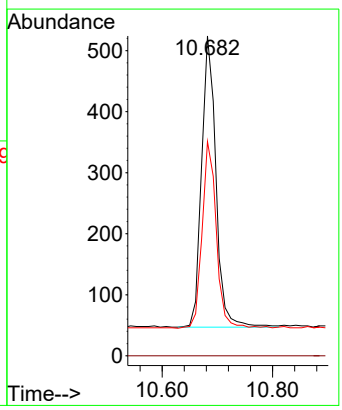


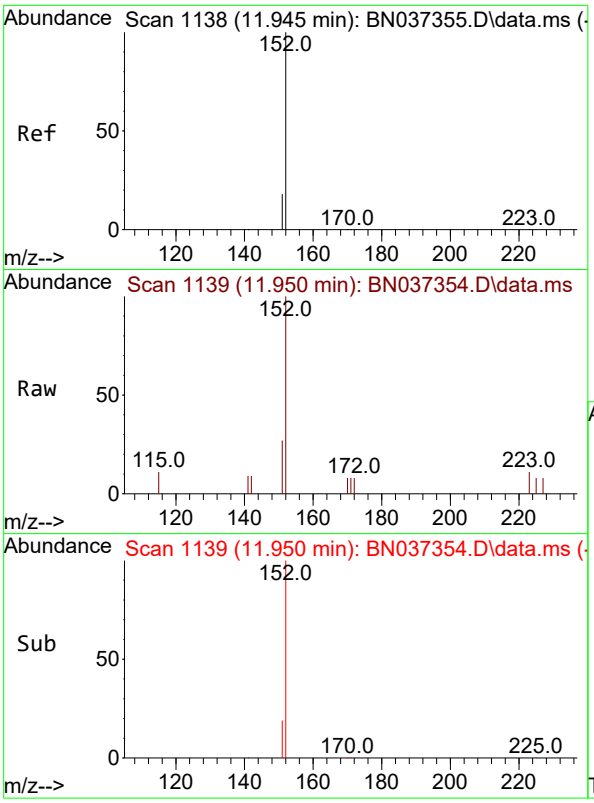


#10
Hexachlorobutadiene
Concen: 0.171 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:225 Resp: 864

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	50.3	75.5



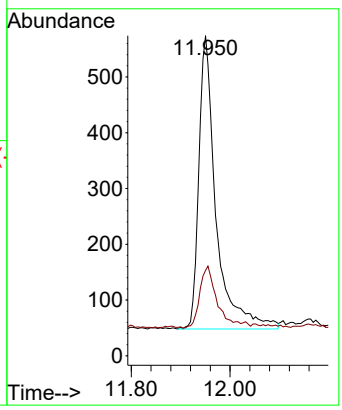


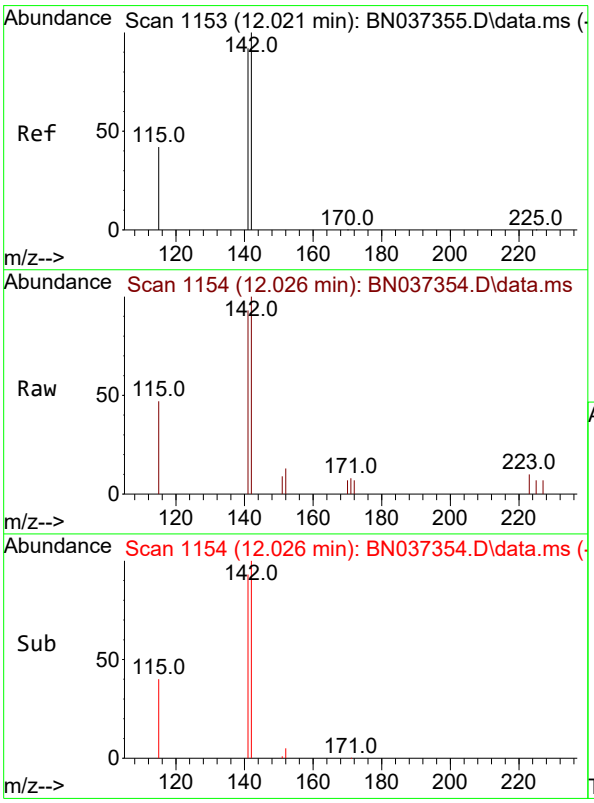
#11
2-Methylnaphthalene-d10
Concen: 0.197 ng
RT: 11.950 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1271

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.4	26.0

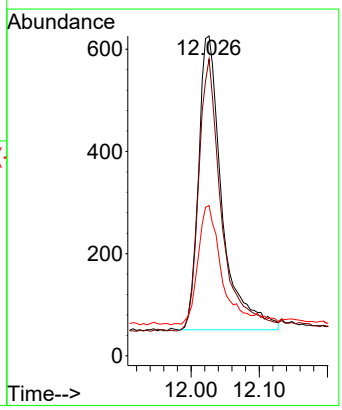


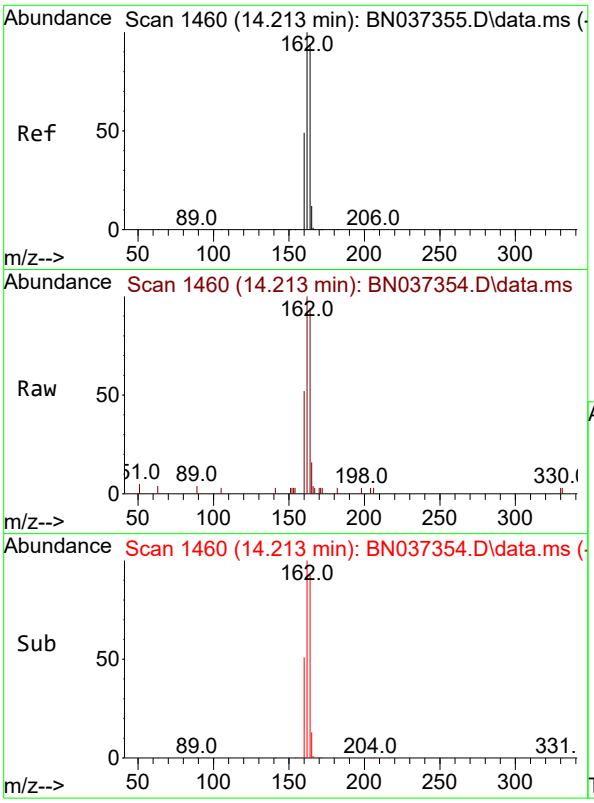


#12
2-Methylnaphthalene
Concen: 0.190 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:142 Resp: 1379

Ion	Ratio	Lower	Upper
142	100		
141	92.8	70.2	105.2
115	47.0	43.0	64.4



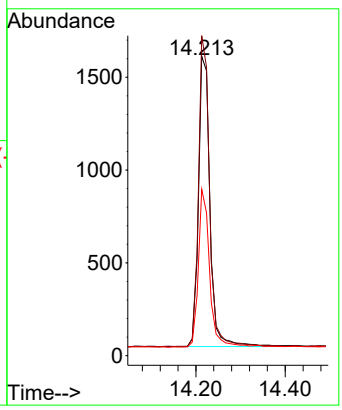


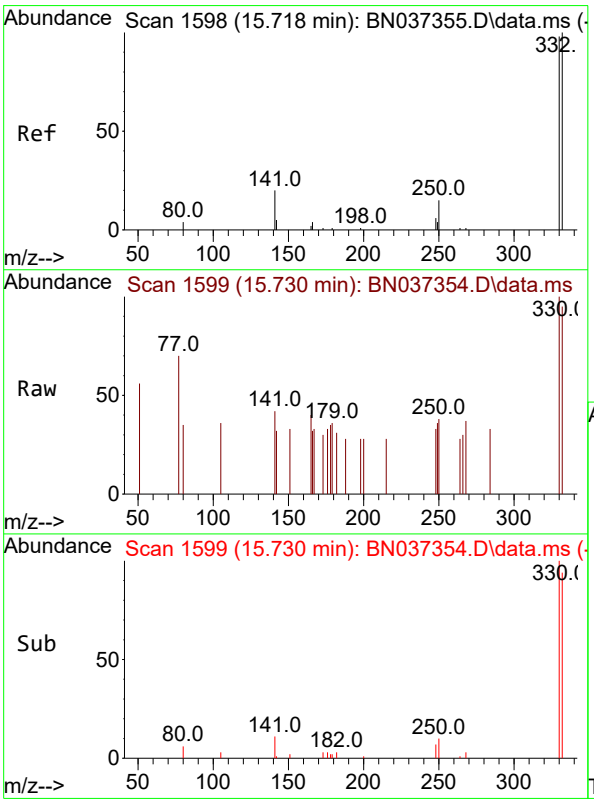
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 2790

Ion	Ratio	Lower	Upper
164	100		
162	106.9	81.5	122.3
160	55.5	43.0	64.4

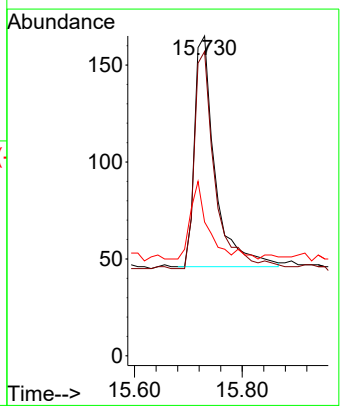


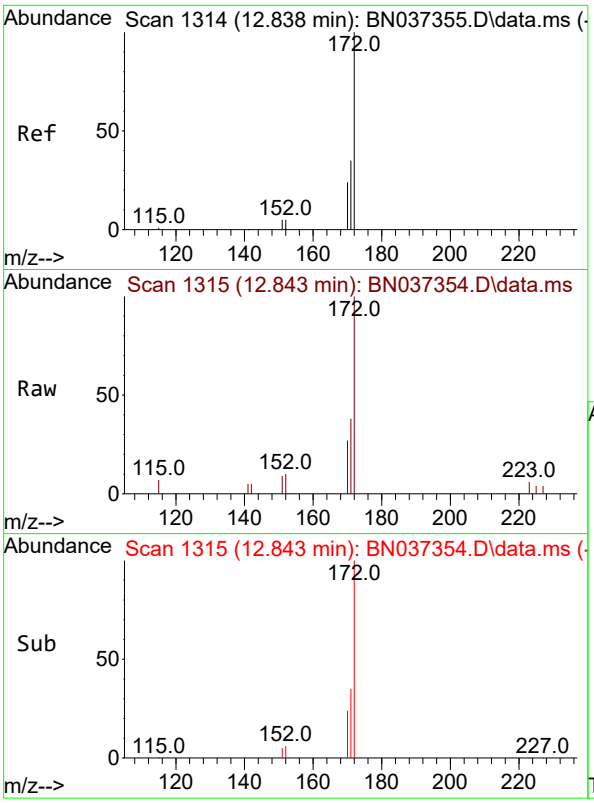


#14
2,4,6-Tribromophenol
Concen: 0.158 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:330 Resp: 315

Ion	Ratio	Lower	Upper
330	100		
332	94.6	78.4	117.6
141	31.1	24.4	36.6



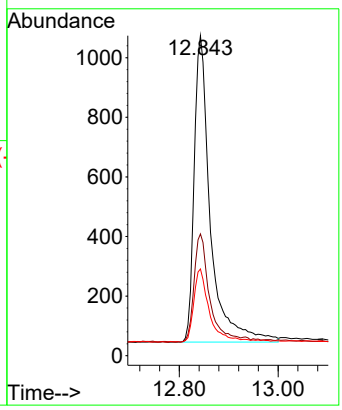


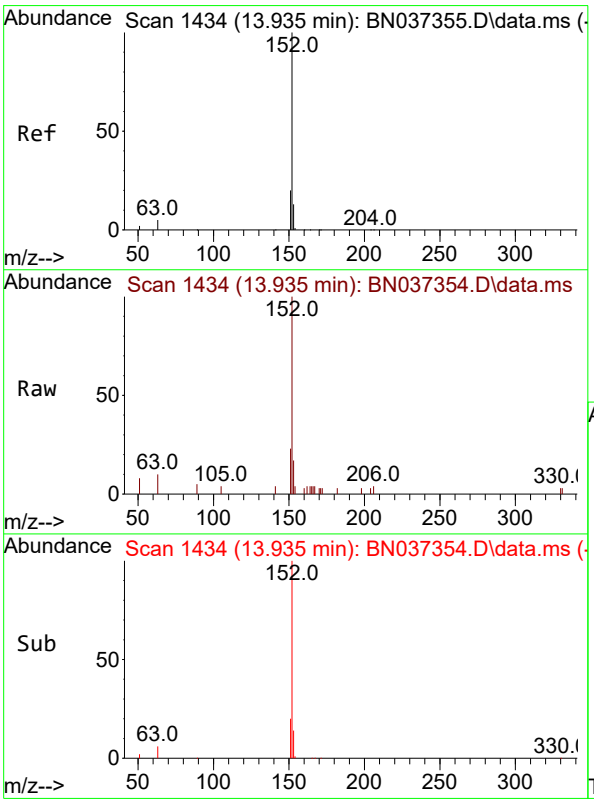
#15
2-Fluorobiphenyl
Concen: 0.191 ng
RT: 12.843 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2337

Ion	Ratio	Lower	Upper
172	100		
171	38.1	30.8	46.2
170	27.1	21.9	32.9

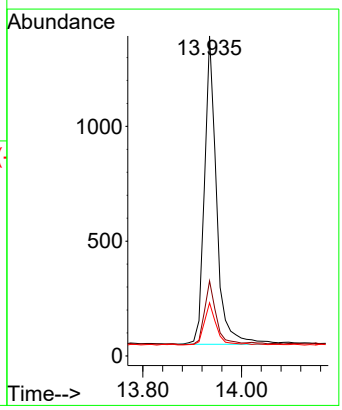


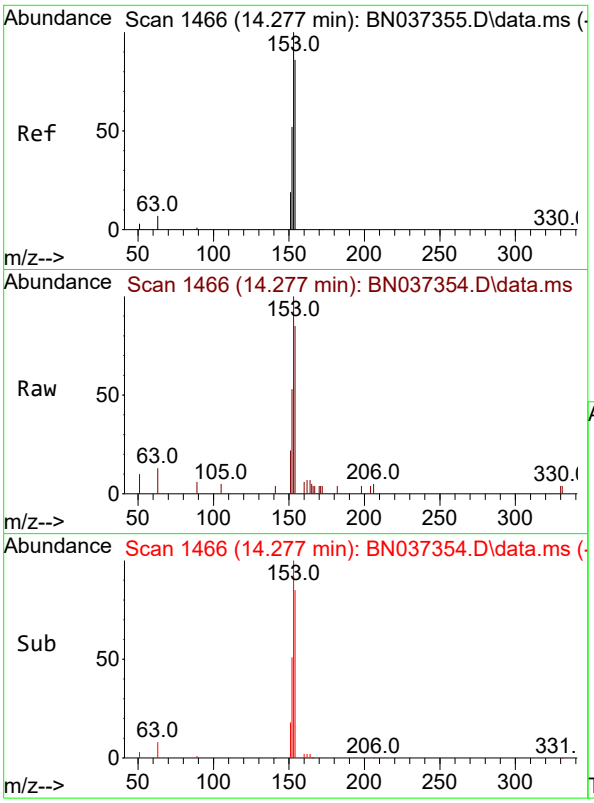


#16
Acenaphthylene
Concen: 0.195 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:152 Resp: 2282

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8
153	14.1	10.2	15.2



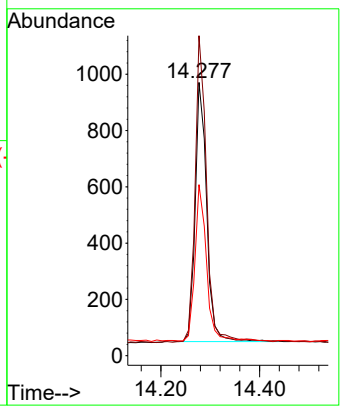


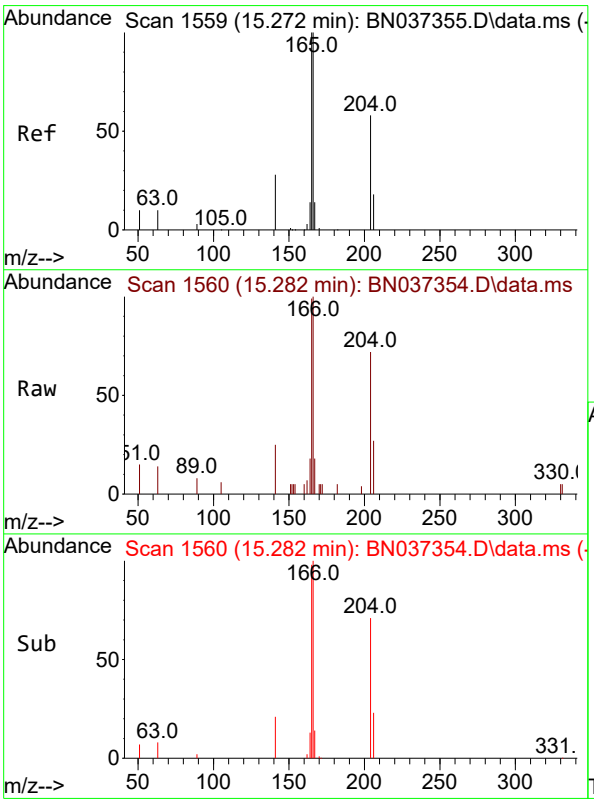
#17
Acenaphthene
Concen: 0.192 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 1492

Ion	Ratio	Lower	Upper
154	100		
153	118.3	93.1	139.7
152	60.7	48.6	73.0

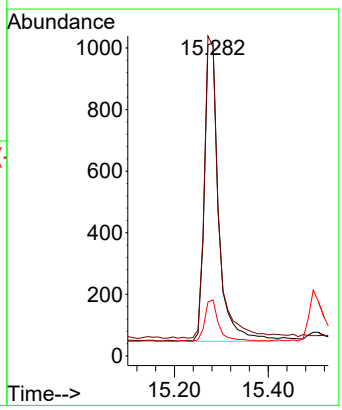


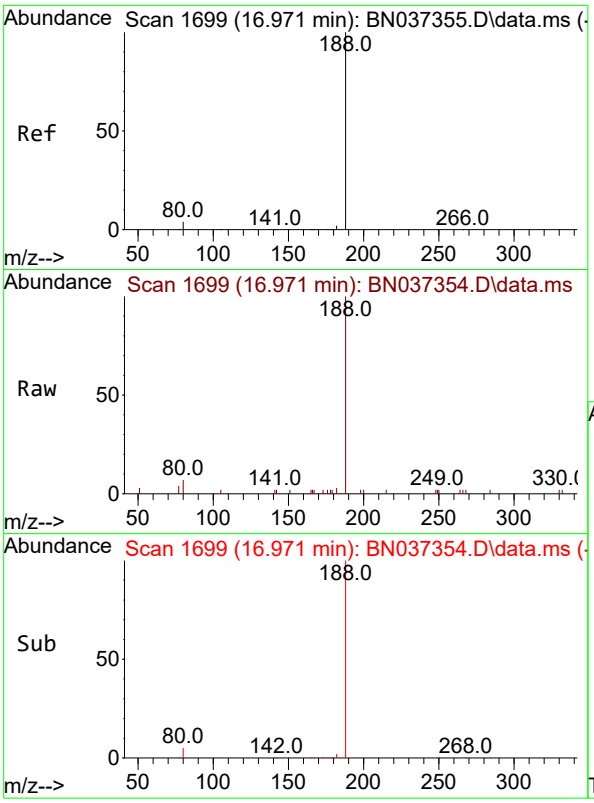


#18
Fluorene
Concen: 0.186 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:166 Resp: 2051

Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.5	119.3
167	13.3	10.7	16.1



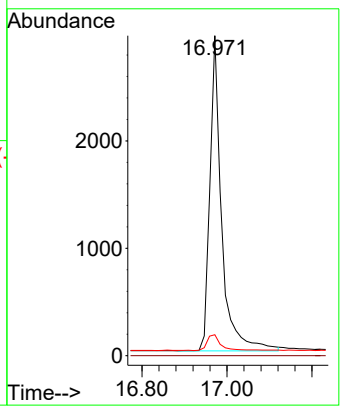


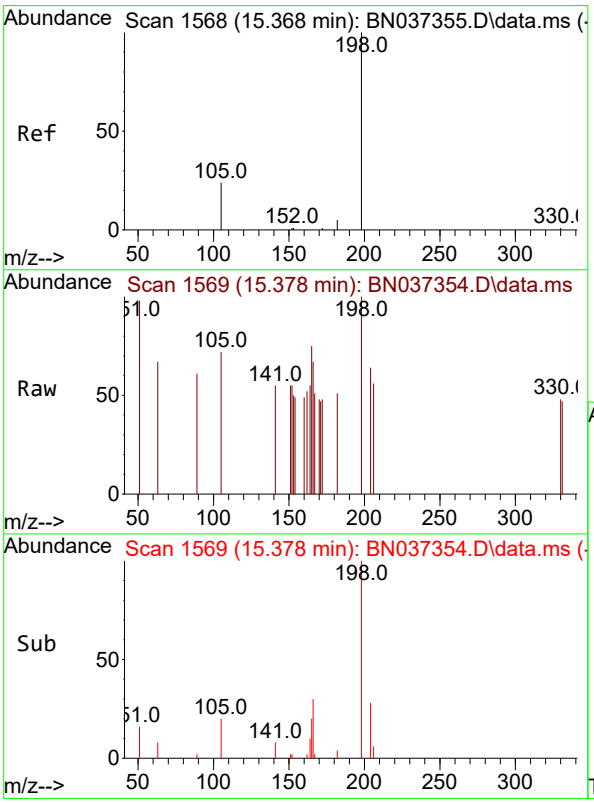
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 5628

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.5	6.2	9.2

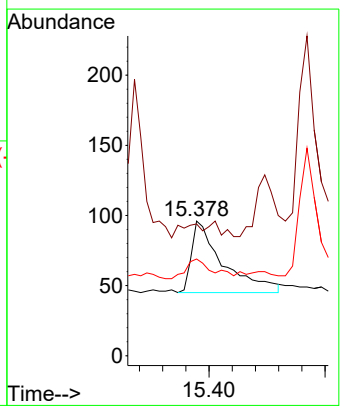


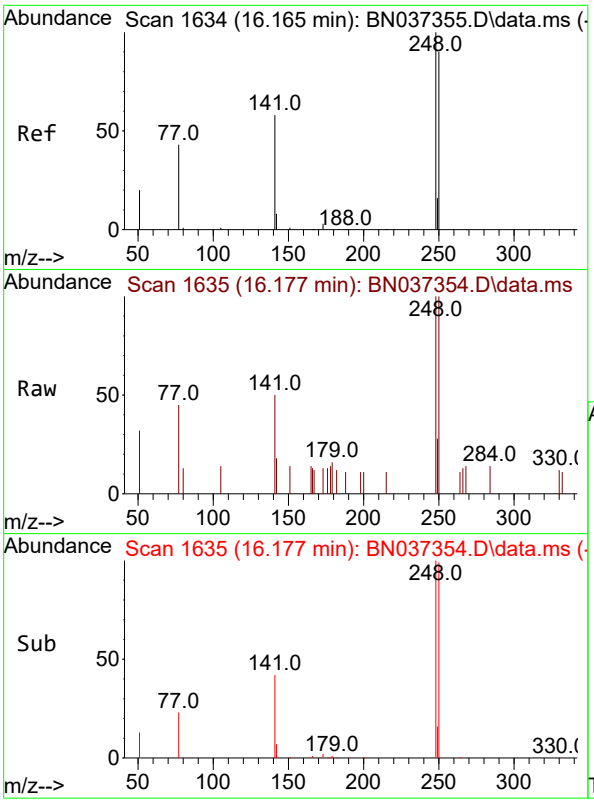


#20
4,6-Dinitro-2-methylphenol
Concen: 0.115 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:198 Resp: 196

Ion	Ratio	Lower	Upper
198	100		
51	97.9	51.4	77.0#
105	71.9	45.5	68.3#



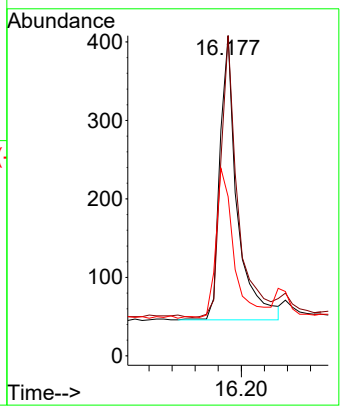


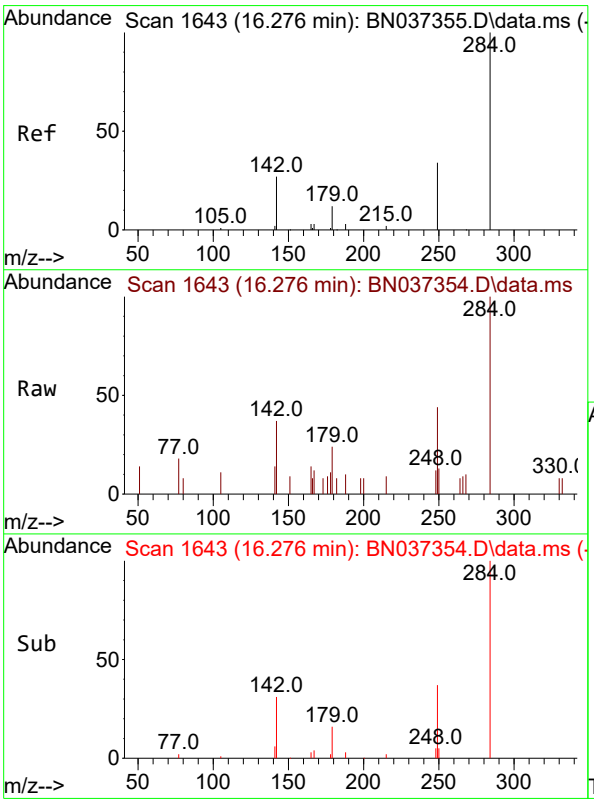
#21
4-Bromophenyl-phenylether
Concen: 0.163 ng
RT: 16.177 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 750

Ion	Ratio	Lower	Upper
248	100		
250	100.0	80.4	120.6
141	49.8	33.3	49.9

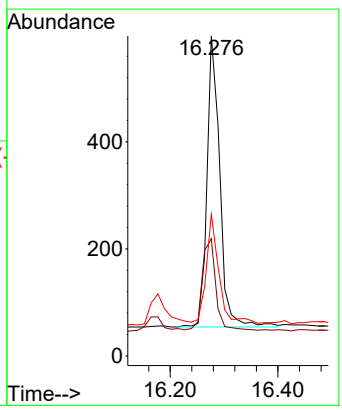


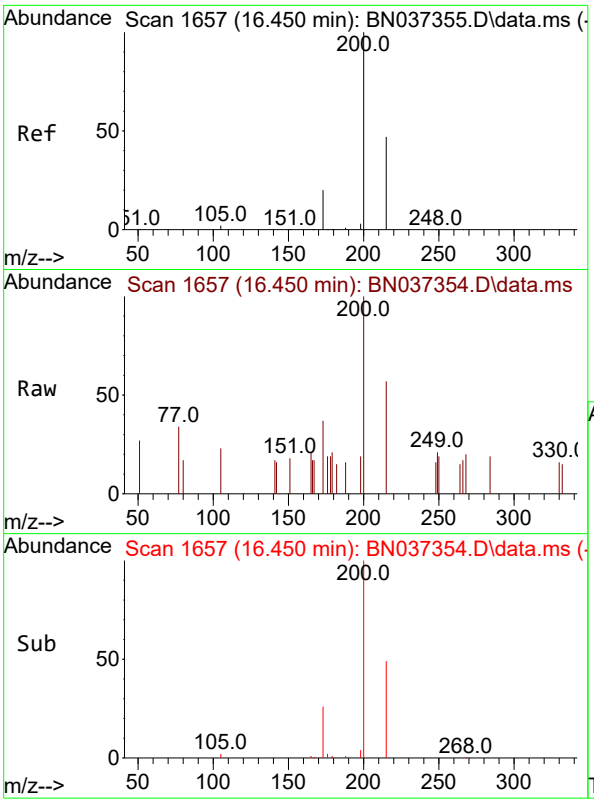


#22
Hexachlorobenzene
Concen: 0.187 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:284 Resp: 898

Ion	Ratio	Lower	Upper
284	100		
142	33.4	27.0	40.6
249	37.8	28.8	43.2



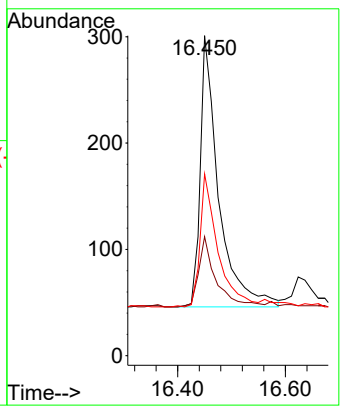


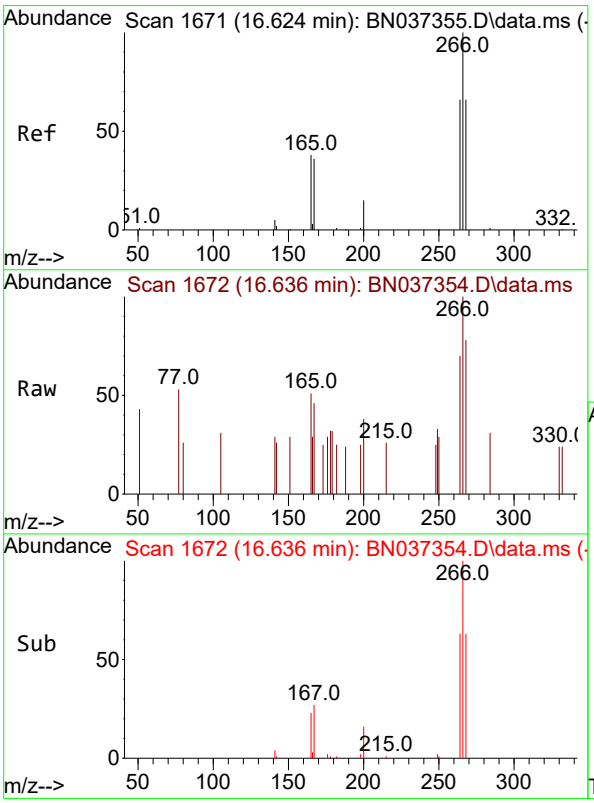
#23
Atrazine
Concen: 0.168 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 604

Ion	Ratio	Lower	Upper
200	100		
173	37.2	29.2	43.8
215	56.8	48.8	73.2

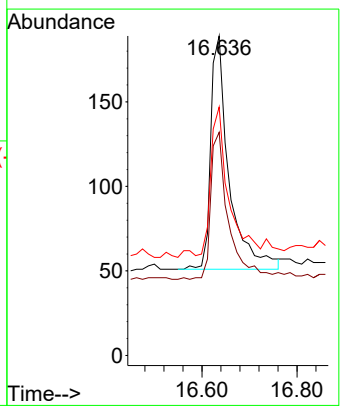


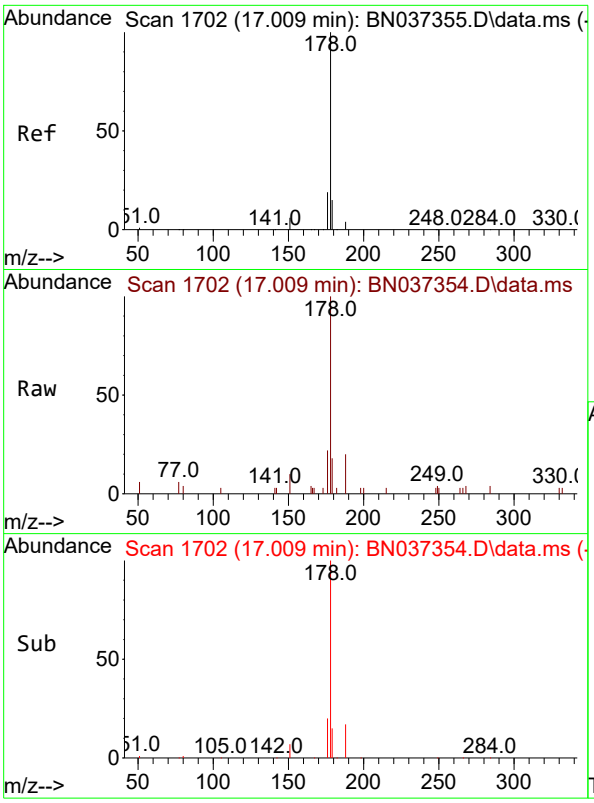


#24
Pentachlorophenol
Concen: 0.140 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.012 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:266 Resp: 369

Ion	Ratio	Lower	Upper
266	100		
264	61.2	50.3	75.5
268	65.3	55.3	82.9



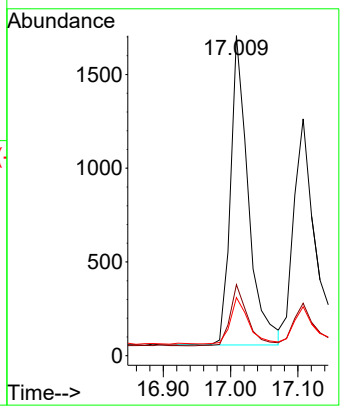


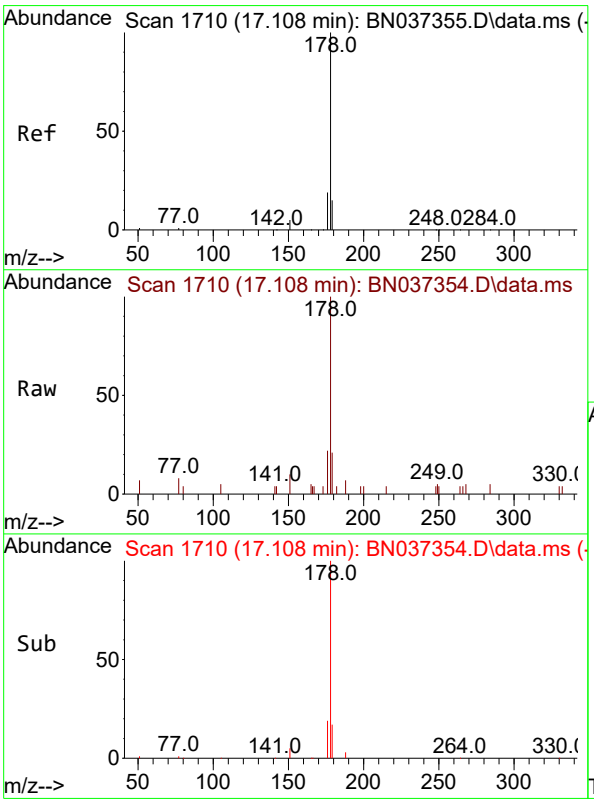
#25
Phenanthrene
Concen: 0.190 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 3024

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.2	22.8
179	15.3	12.9	19.3

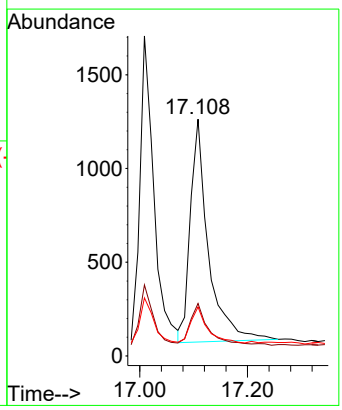


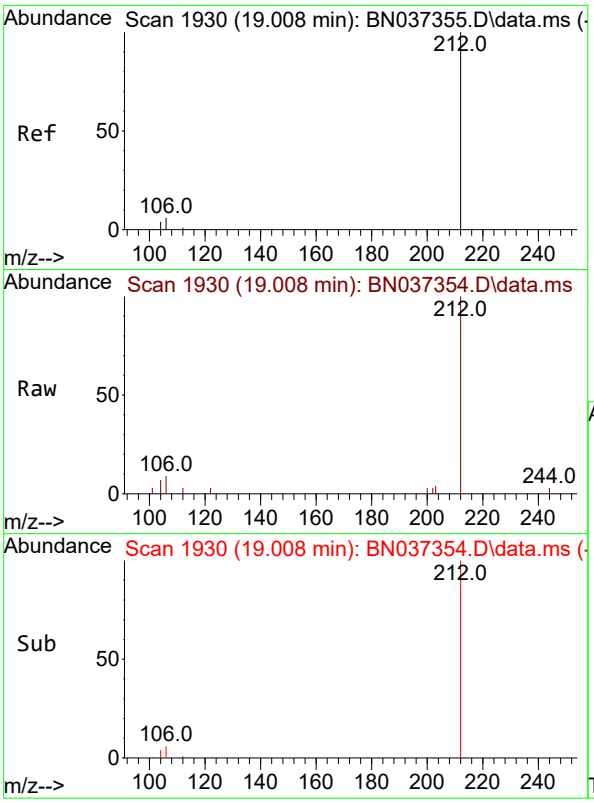


#26
Anthracene
Concen: 0.186 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:178 Resp: 2769

Ion	Ratio	Lower	Upper
178	100		
176	19.7	14.7	22.1
179	15.0	13.0	19.6



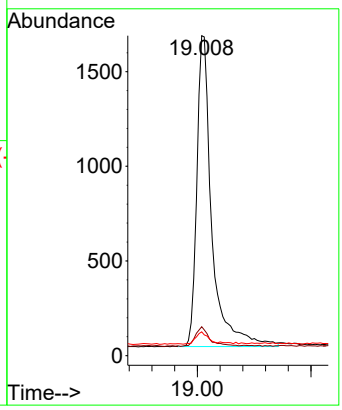


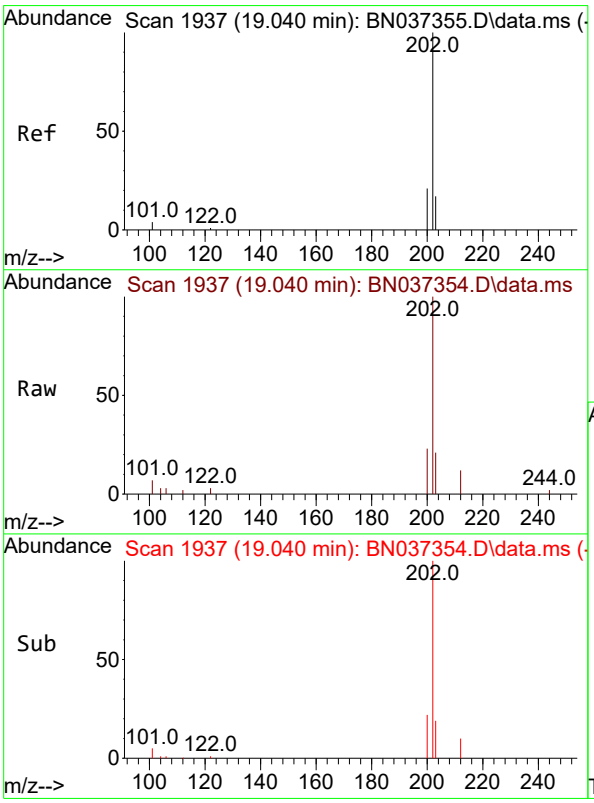
#27
Fluoranthene-d10
Concen: 0.172 ng
RT: 19.008 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 3010

Ion	Ratio	Lower	Upper
212	100		
106	6.0	3.0	4.4#
104	3.2	2.0	3.0#

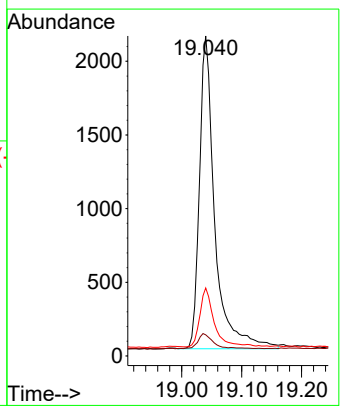


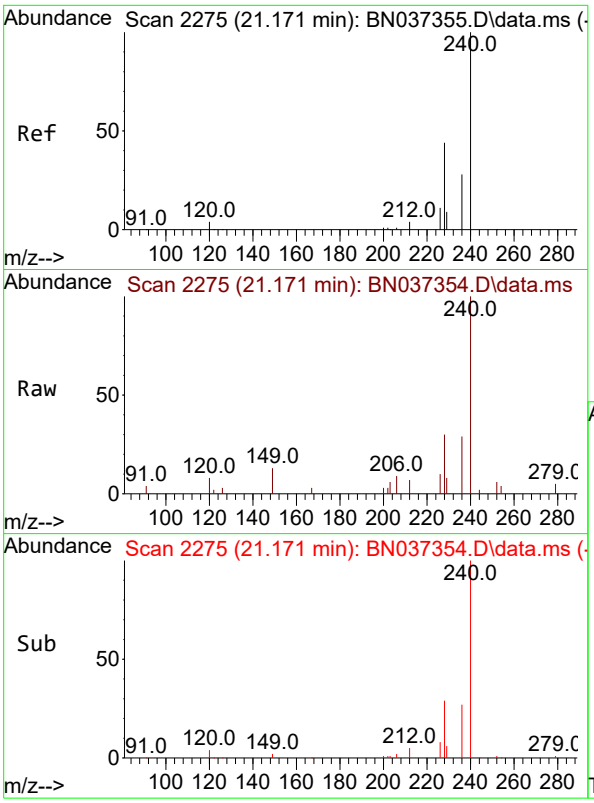


#28
Fluoranthene
Concen: 0.174 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:202 Resp: 3780

Ion	Ratio	Lower	Upper
202	100		
101	4.7	3.0	4.6#
203	17.8	13.7	20.5



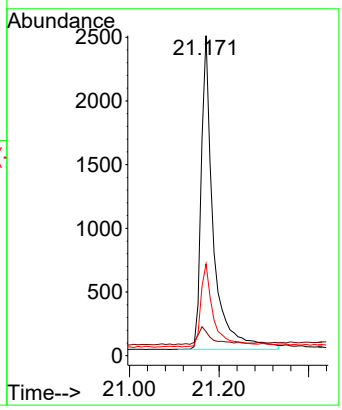


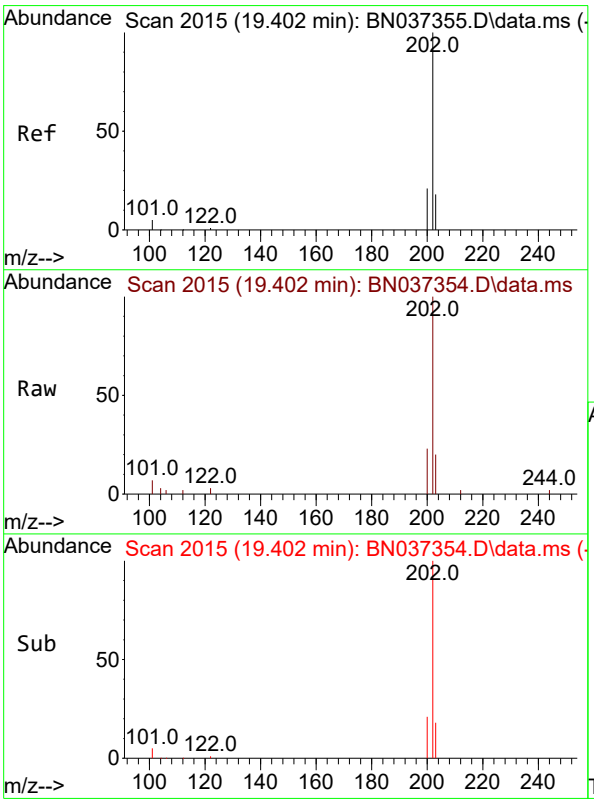
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 4640

Ion	Ratio	Lower	Upper
240	100		
120	7.5	7.5	11.3
236	28.7	24.9	37.3

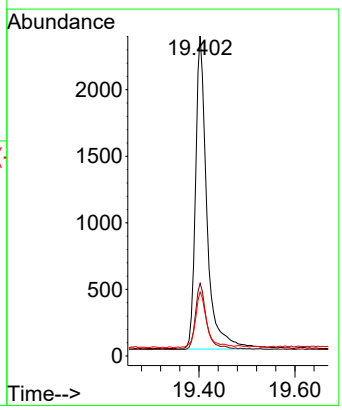


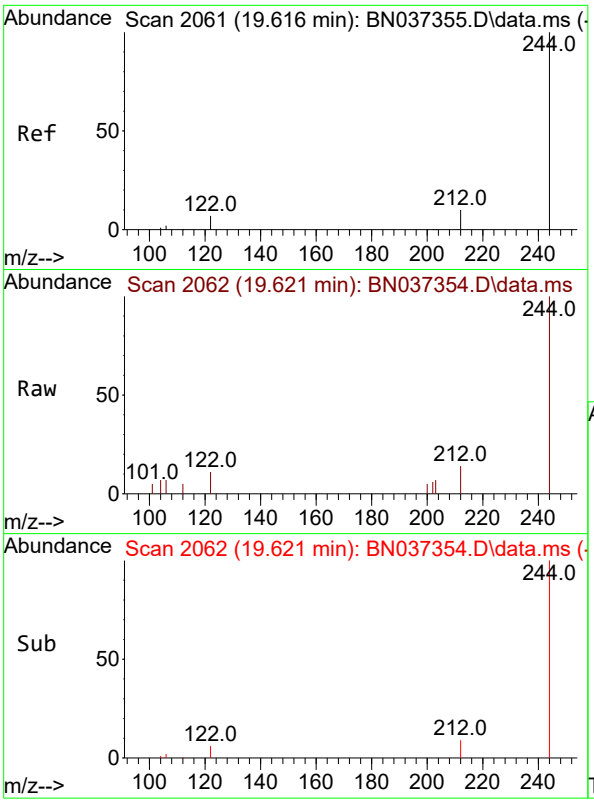


#30
Pyrene
Concen: 0.221 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:202 Resp: 3921

Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.8	25.2
203	17.9	14.5	21.7



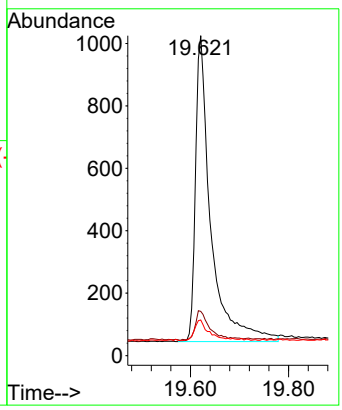


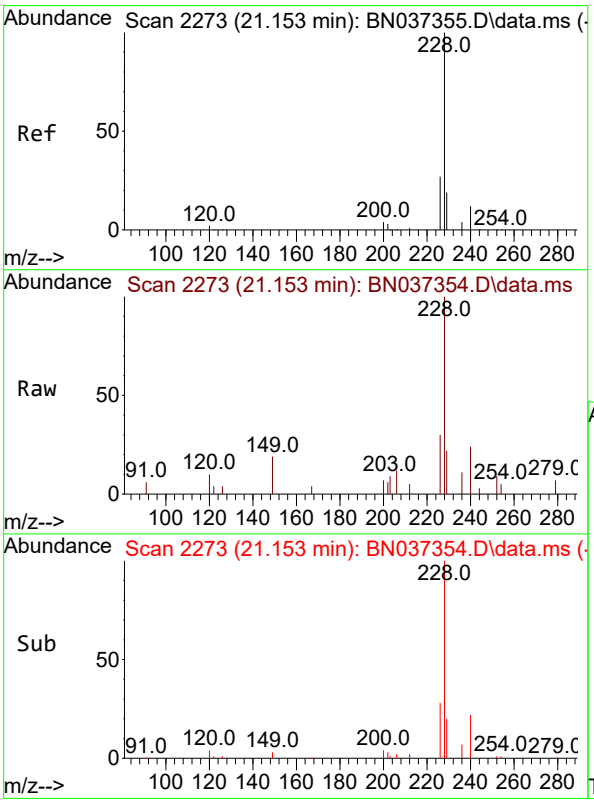
#31
Terphenyl-d14
Concen: 0.200 ng
RT: 19.621 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 2114

Ion	Ratio	Lower	Upper
244	100		
212	13.9	11.1	16.7
122	11.1	7.2	10.8#

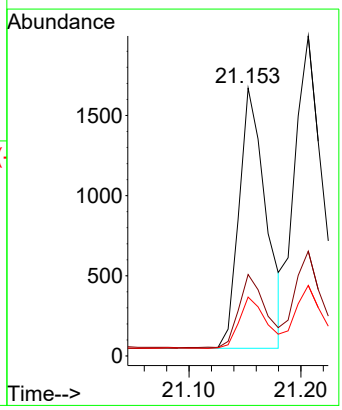


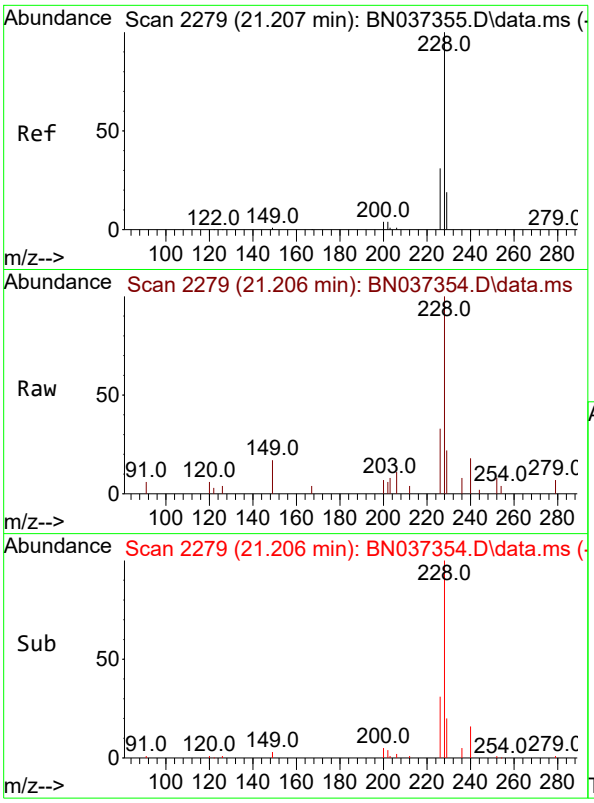


#32
Benzo(a)anthracene
Concen: 0.181 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:228 Resp: 2710

Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.0	34.4
229	22.0	17.4	26.0



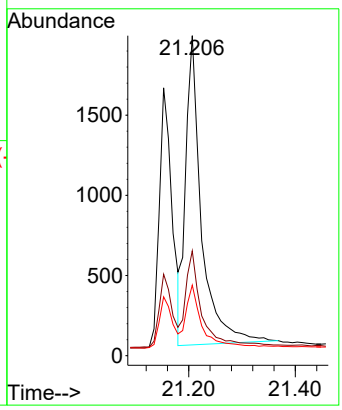


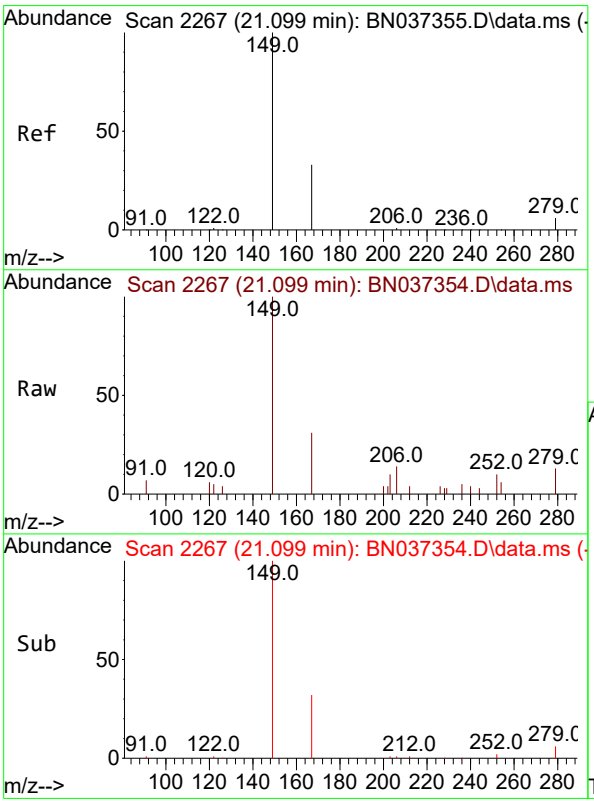
#33
Chrysene
Concen: 0.208 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 3959

Ion	Ratio	Lower	Upper
228	100		
226	32.8	25.4	38.2
229	22.0	17.3	25.9

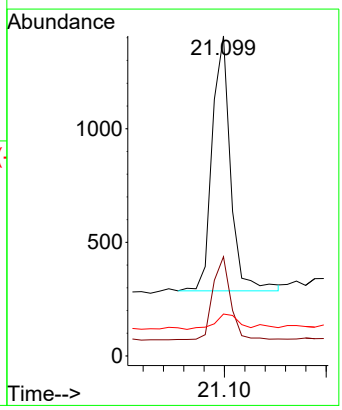


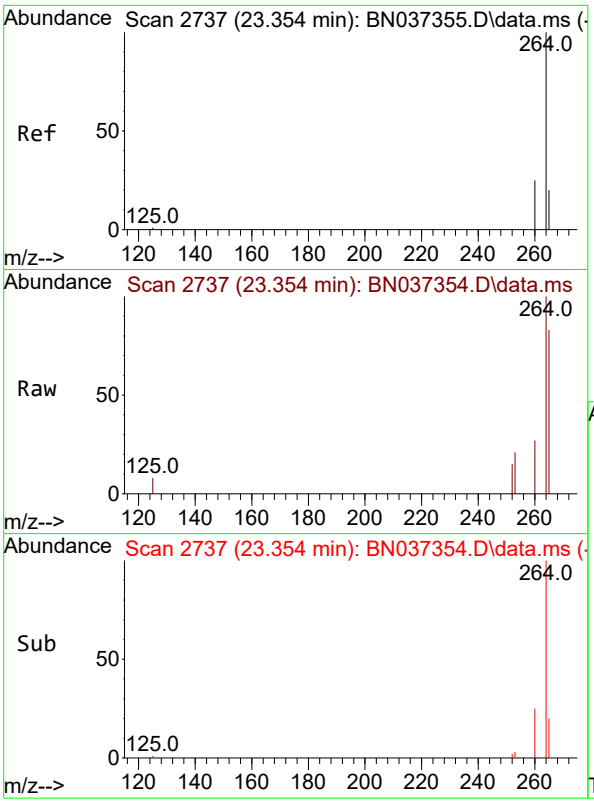


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.229 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:149 Resp: 1406

Ion	Ratio	Lower	Upper
149	100		
167	31.8	24.6	37.0
279	7.7	6.5	9.7



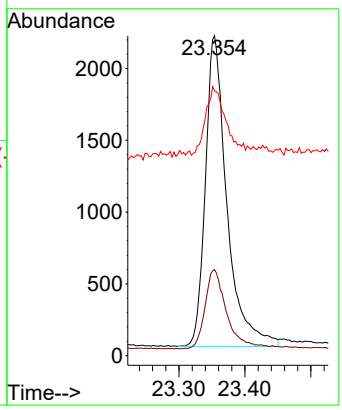


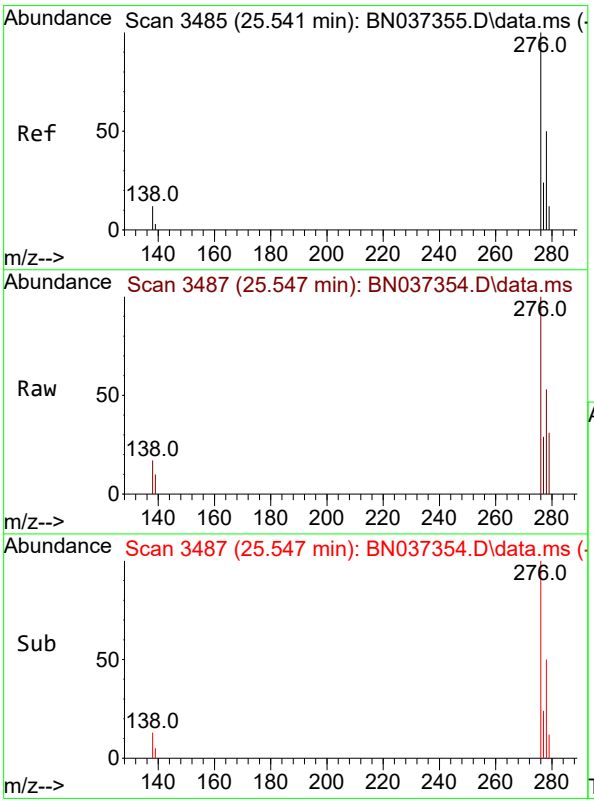
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 4914

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	82.7	71.4	107.0

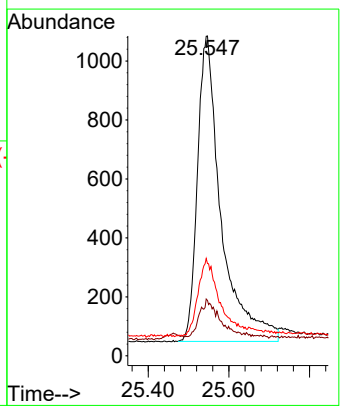


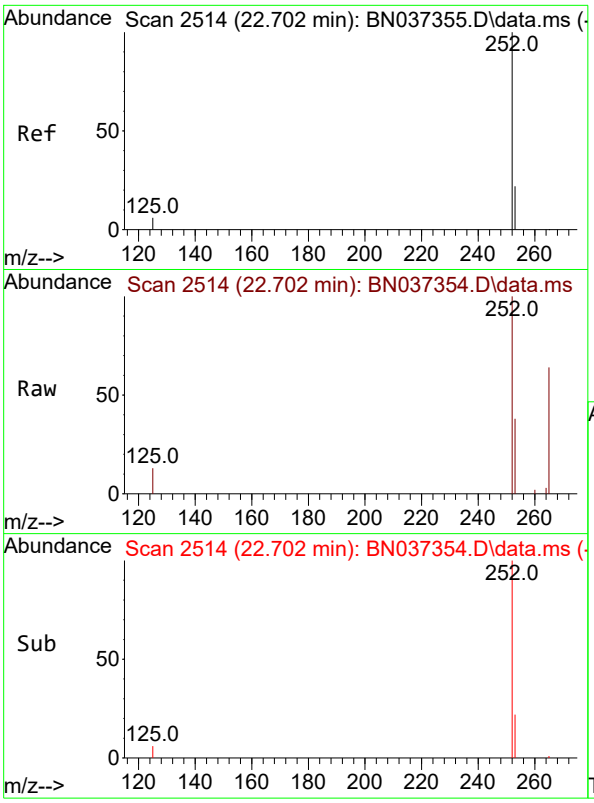


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.202 ng
RT: 25.547 min Scan# 3487
Delta R.T. 0.006 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:276 Resp: 4213

Ion	Ratio	Lower	Upper
276	100		
138	9.1	2.2	3.2#
277	22.8	17.1	25.7



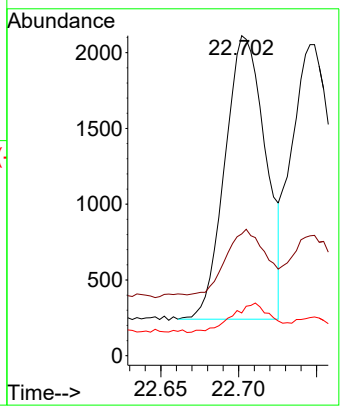


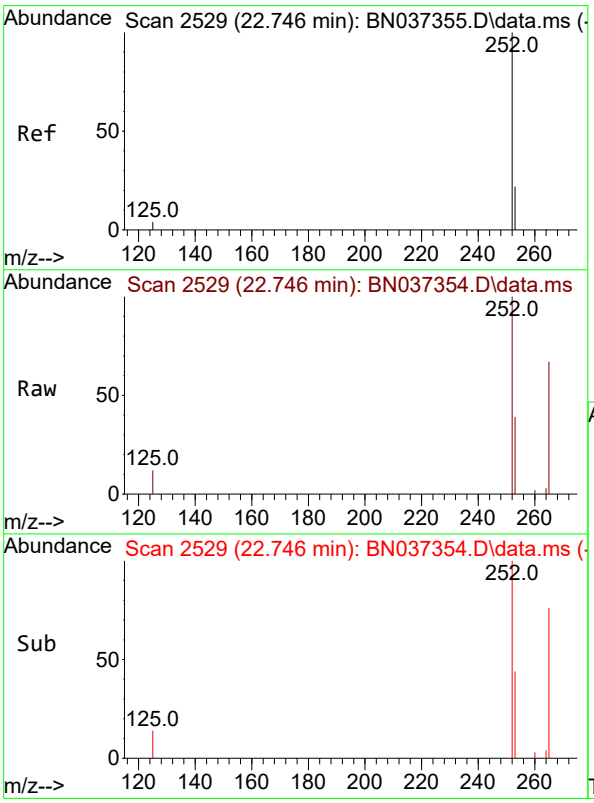
#37
Benzo(b)fluoranthene
Concen: 0.195 ng
RT: 22.702 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 3390

Ion	Ratio	Lower	Upper
252	100		
253	38.1	26.6	40.0
125	13.4	6.1	9.1#

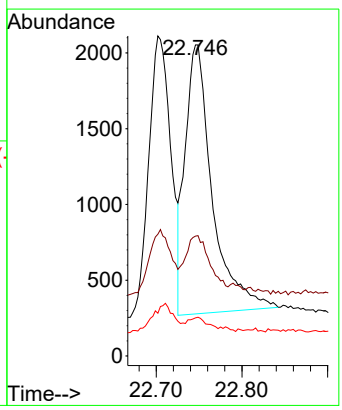


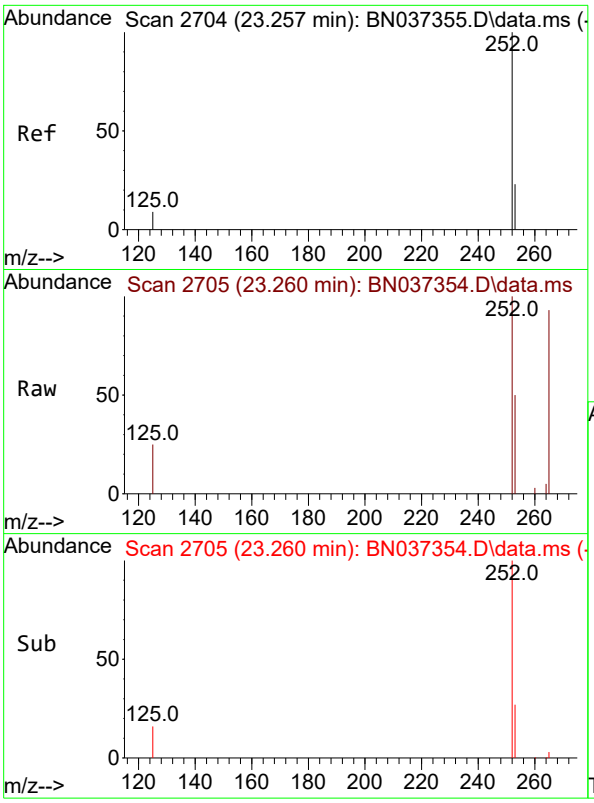


#38
Benzo(k)fluoranthene
Concen: 0.207 ng
RT: 22.746 min Scan# 2529
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:252 Resp: 3913

Ion	Ratio	Lower	Upper
252	100		
253	38.5	26.7	40.1
125	12.3	6.5	9.7#



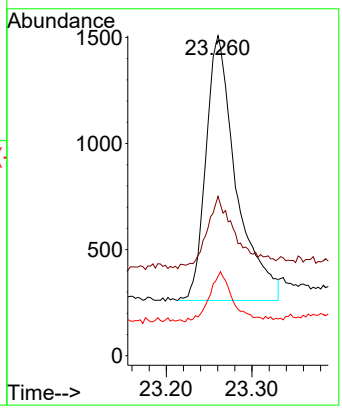


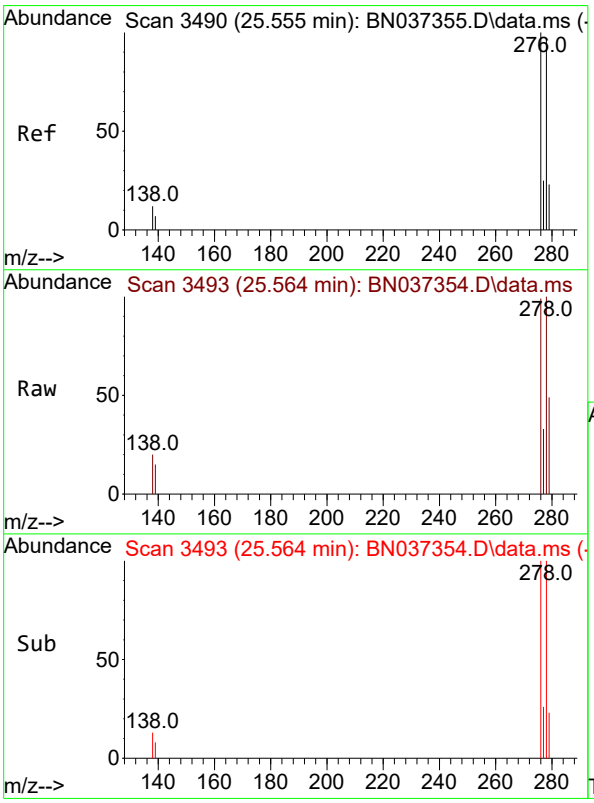
#39
Benzo(a)pyrene
Concen: 0.193 ng
RT: 23.260 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 3070

Ion	Ratio	Lower	Upper
252	100		
253	49.8	31.6	47.4#
125	24.8	8.4	12.6#

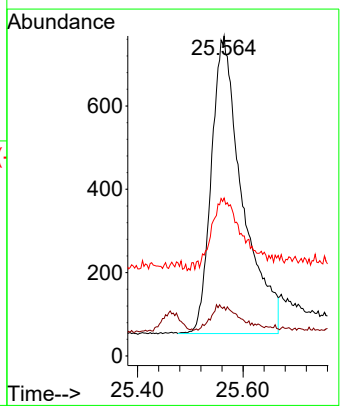


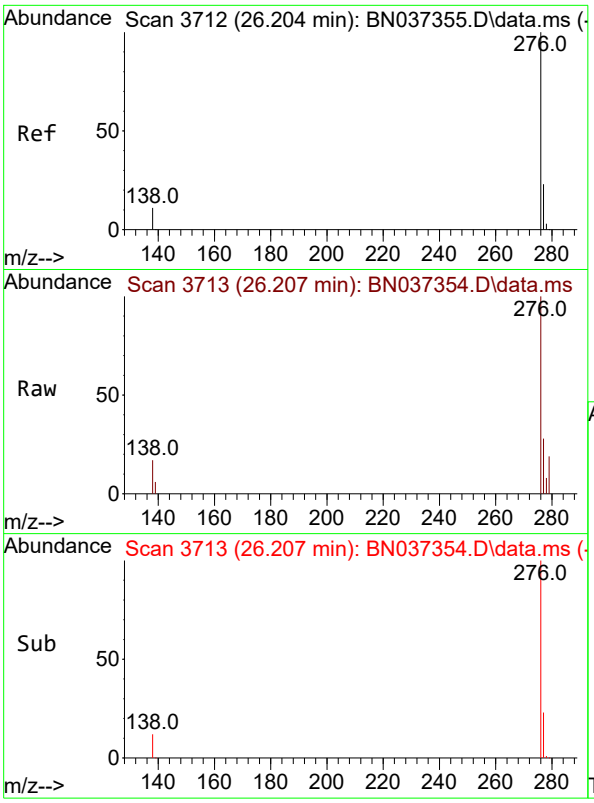


#40
Dibenzo(a,h)anthracene
Concen: 0.175 ng
RT: 25.564 min Scan# 3493
Delta R.T. 0.009 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:278 Resp: 2911

Ion	Ratio	Lower	Upper
278	100		
139	15.4	10.2	15.4#
279	49.3	35.6	53.4



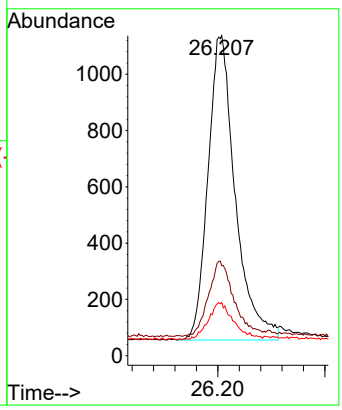


#41
Benzo(g,h,i)perylene
Concen: 0.200 ng
RT: 26.207 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 3819

Ion	Ratio	Lower	Upper
276	100		
277	28.1	22.7	34.1
138	16.6	9.4	14.2#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037355.D
Acq On : 20 Jun 2025 18:03
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

Quant Time: Jun 20 23:26:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	1912	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4157	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	2811	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5776	0.400	ng	#	0.00
29) Chrysene-d12	21.171	240	4813	0.400	ng	#	0.00
35) Perylene-d12	23.354	264	4943	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1436	0.411	ng		0.00
5) Phenol-d6	6.752	99	1465	0.424	ng		0.00
8) Nitrobenzene-d5	8.717	82	1327	0.385	ng		0.00
11) 2-Methylnaphthalene-d10	11.945	152	2768	0.411	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	646	0.321	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	4996	0.405	ng		0.00
27) Fluoranthene-d10	19.008	212	6705	0.373	ng		0.00
31) Terphenyl-d14	19.616	244	4452	0.405	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	745	0.441	ng		94
3) n-Nitrosodimethylamine	3.422	42	754	0.383	ng		81
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.446	ng		94
9) Naphthalene	10.394	128	4347	0.403	ng	#	89
10) Hexachlorobutadiene	10.682	225	1832	0.348	ng	#	99
12) 2-Methylnaphthalene	12.021	142	2957	0.390	ng		92
16) Acenaphthylene	13.935	152	4490	0.381	ng		99
17) Acenaphthene	14.277	154	2983	0.381	ng		98
18) Fluorene	15.272	166	4232	0.382	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	459	0.263	ng		89
21) 4-Bromophenyl-phenylether	16.165	248	1611	0.342	ng	#	85
22) Hexachlorobenzene	16.276	284	1814	0.369	ng		98
23) Atrazine	16.450	200	1262	0.342	ng	#	85
24) Pentachlorophenol	16.624	266	792	0.293	ng		98
25) Phenanthrene	17.009	178	6374	0.391	ng		99
26) Anthracene	17.108	178	5717	0.375	ng		98
28) Fluoranthene	19.040	202	7896	0.354	ng	#	98
30) Pyrene	19.402	202	7990	0.434	ng		100
32) Benzo(a)anthracene	21.153	228	5851	0.377	ng		98
33) Chrysene	21.207	228	7754	0.394	ng		98
34) Bis(2-ethylhexyl)phtha...	21.099	149	2603	0.409	ng		98
36) Indeno(1,2,3-cd)pyrene	25.541	276	8379	0.400	ng	#	93
37) Benzo(b)fluoranthene	22.702	252	7138m	0.407	ng		
38) Benzo(k)fluoranthene	22.746	252	7755	0.407	ng		95
39) Benzo(a)pyrene	23.257	252	6298	0.393	ng	#	92
40) Dibenzo(a,h)anthracene	25.555	278	6108	0.366	ng	#	88
41) Benzo(g,h,i)perylene	26.204	276	7852	0.408	ng		95

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

ICAL Form

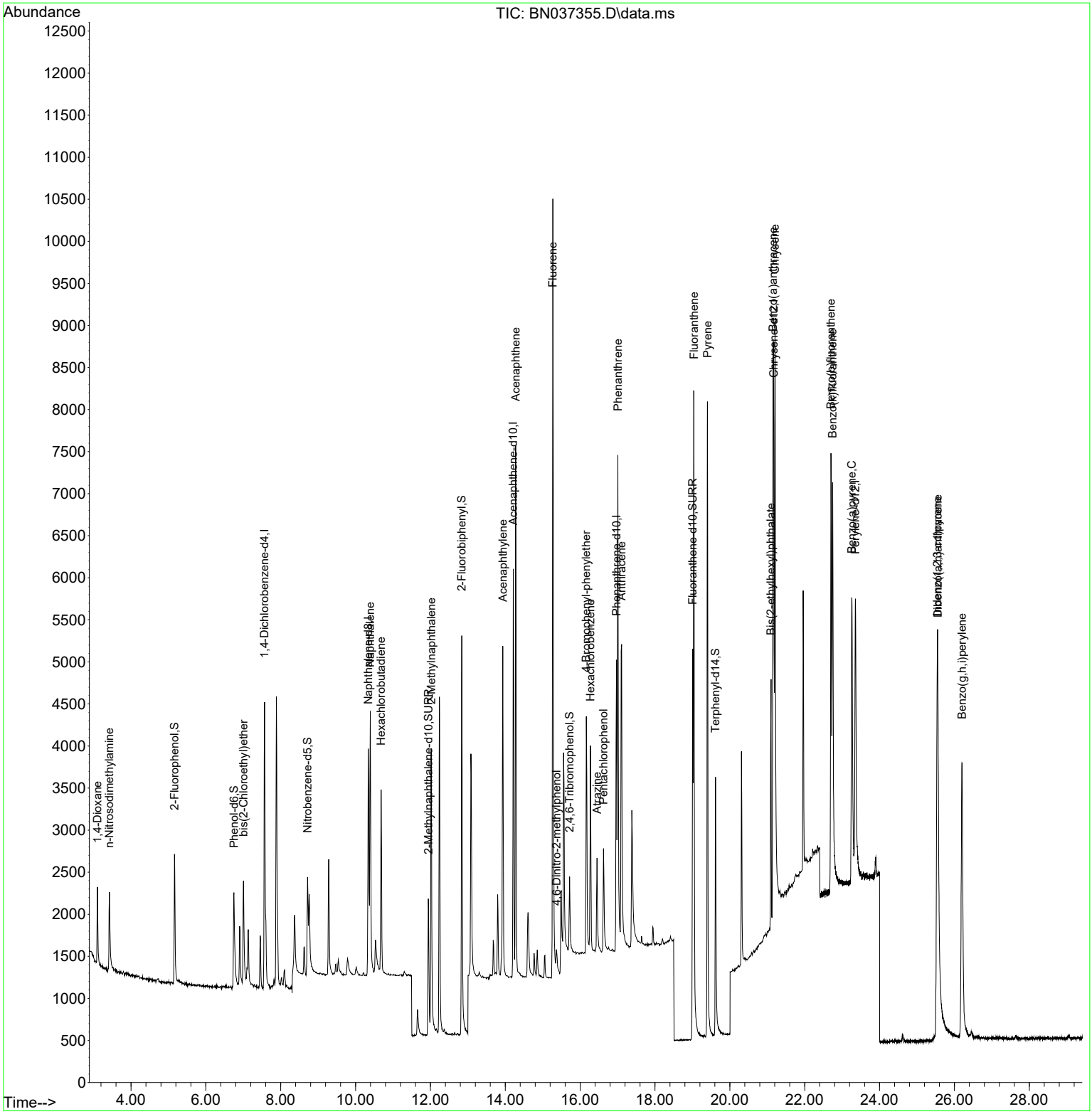
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037355.D
Acq On : 20 Jun 2025 18:03
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

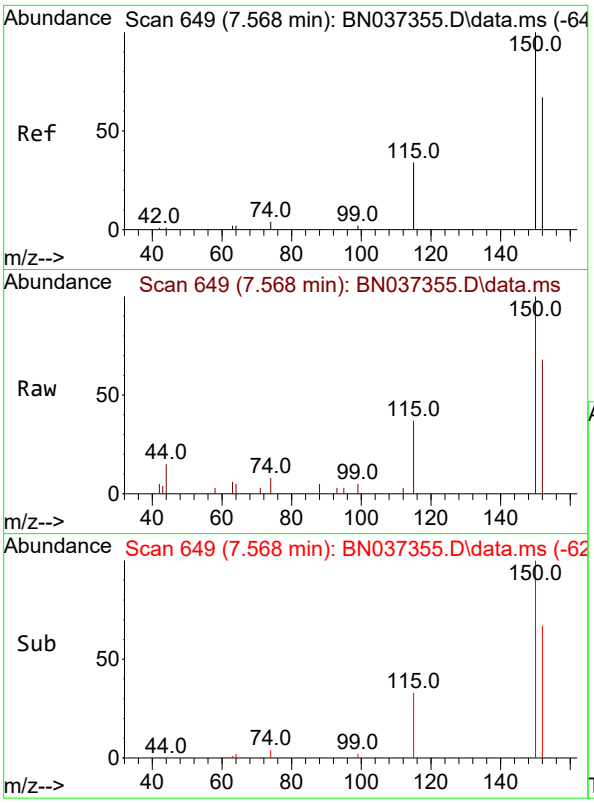
Quant Time: Jun 20 23:26:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

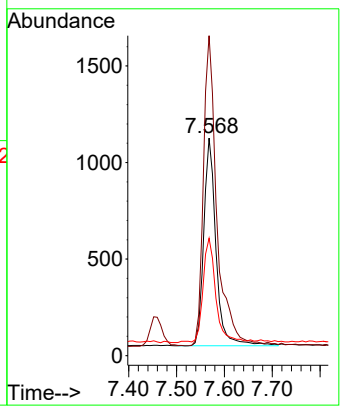




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:152 Resp: 191

Ion	Ratio	Lower	Upper
152	100		
150	147.0	112.7	169.1
115	53.9	45.9	68.9



Instrument :
BNA_N
ClientSampleId :
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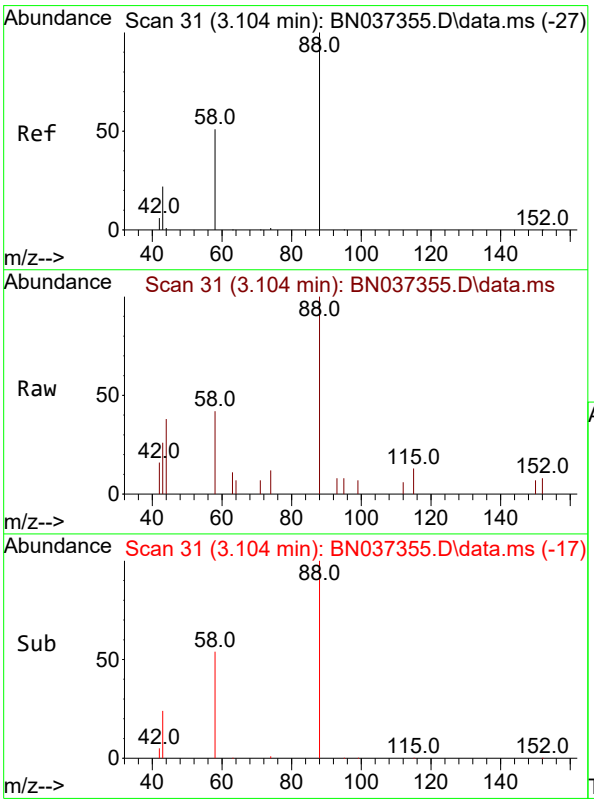
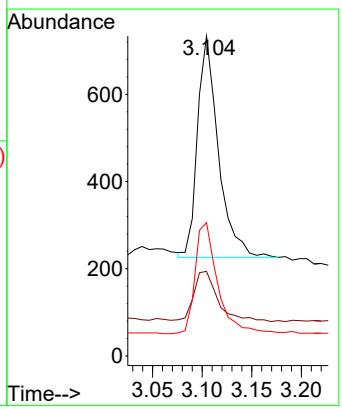
Supervised By :Jagrut Upadhyay 06/24/2025

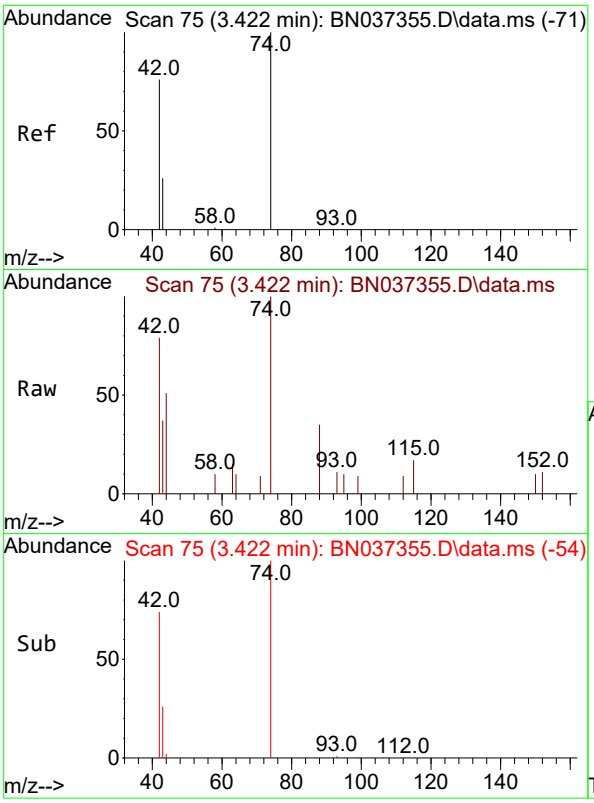


#2
1,4-Dioxane
Concen: 0.441 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 88 Resp: 745

Ion	Ratio	Lower	Upper
88	100		
43	26.3	21.0	31.6
58	54.1	38.0	57.0

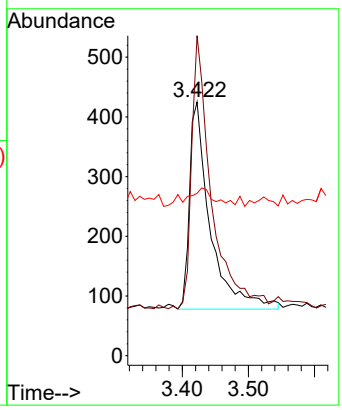




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 42 Resp: 75

Ion	Ratio	Lower	Upper
42	100		
74	126.4	84.3	126.5
44	5.7	5.0	7.4



Instrument :
BNA_N
ClientSampleId :
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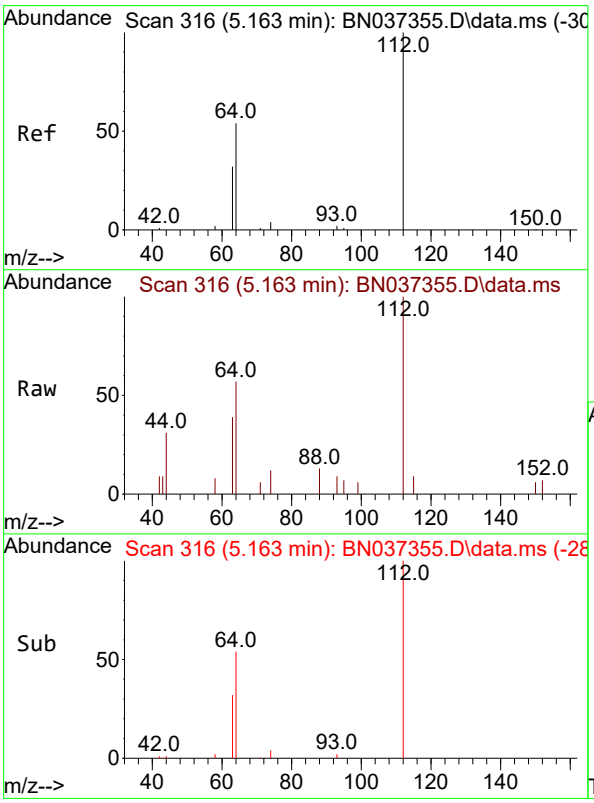
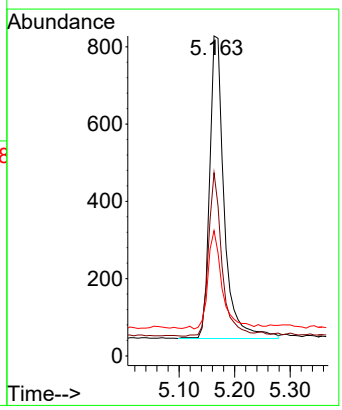
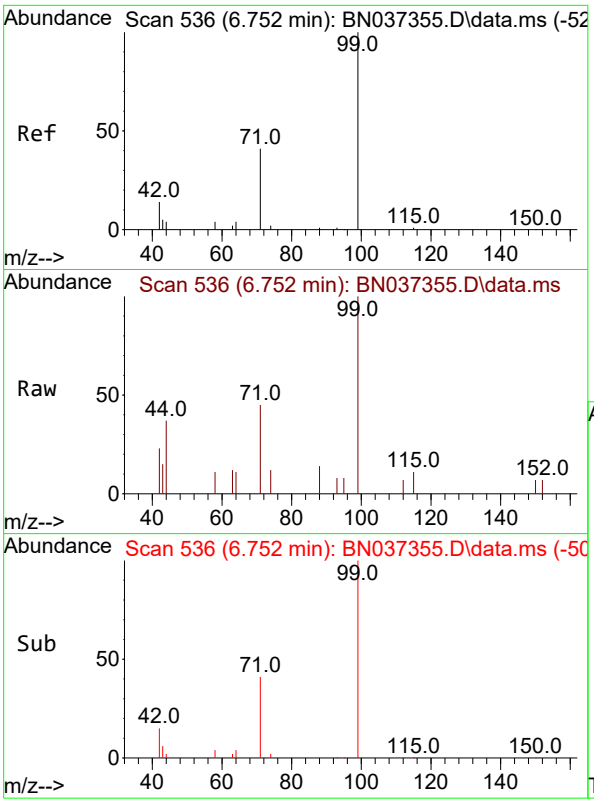


#4
2-Fluorophenol
Concen: 0.411 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:112 Resp: 1436

Ion	Ratio	Lower	Upper
112	100		
64	49.6	38.7	58.1
63	31.1	26.4	39.6

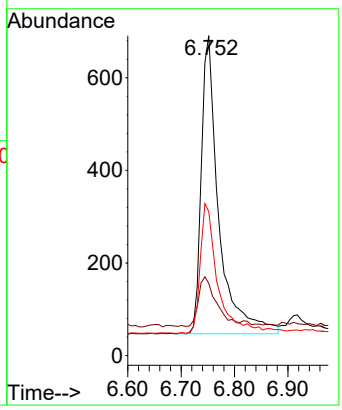




#5
Phenol-d6
Concen: 0.424 ng
RT: 6.752 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 99 Resp: 146

Ion	Ratio	Lower	Upper
99	100		
42	17.0	19.8	29.8
71	43.2	42.6	64.0



Instrument :
BNA_N
ClientSampleId :
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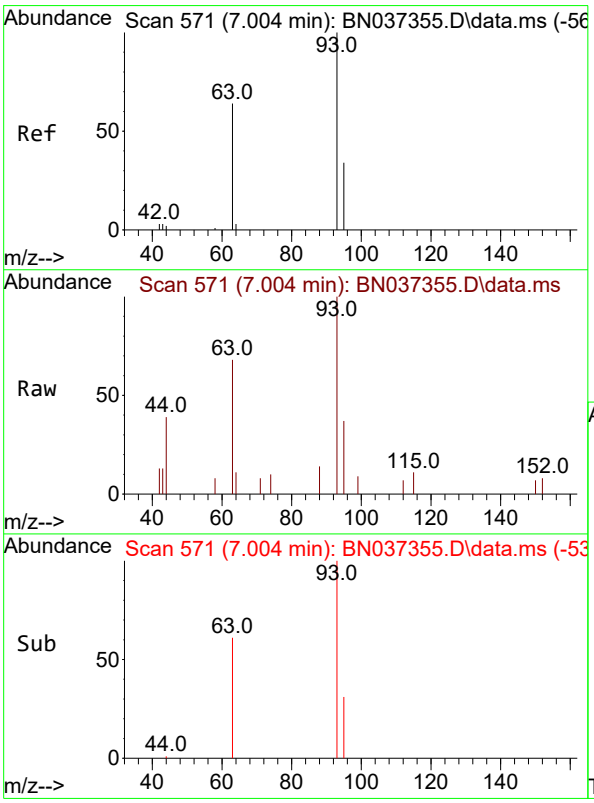
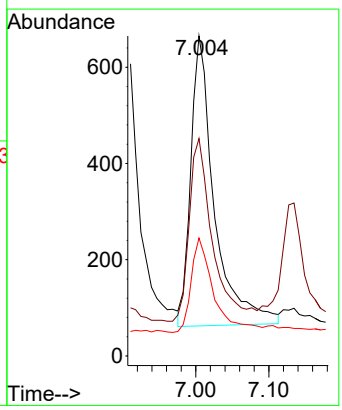
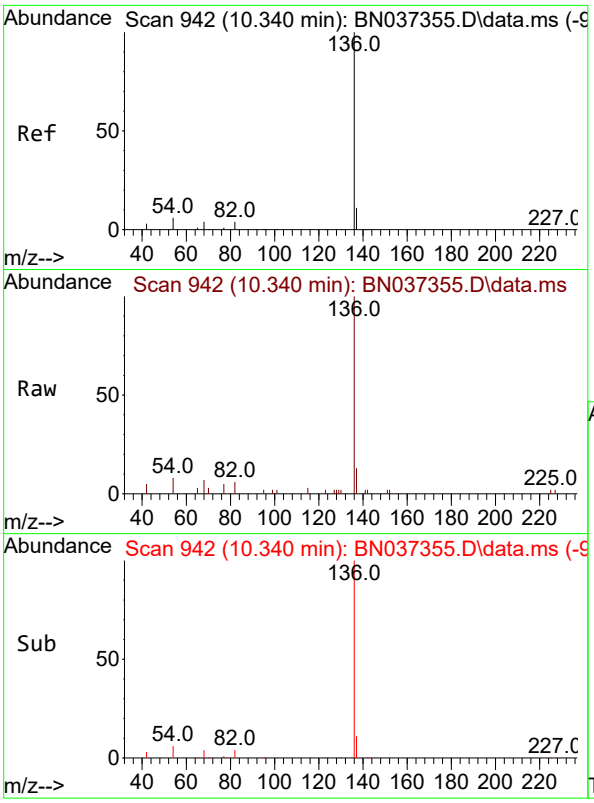


#6
bis(2-Chloroethyl)ether
Concen: 0.446 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 93 Resp: 1351

Ion	Ratio	Lower	Upper
93	100		
63	60.9	53.2	79.8
95	31.1	27.3	40.9

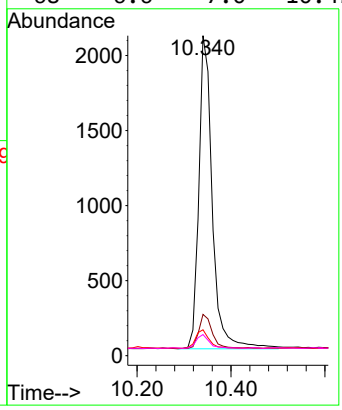




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:136 Resp: 415

Ion	Ratio	Lower	Upper
136	100		
137	12.9	12.2	18.2
54	8.1	8.8	13.2#
68	6.6	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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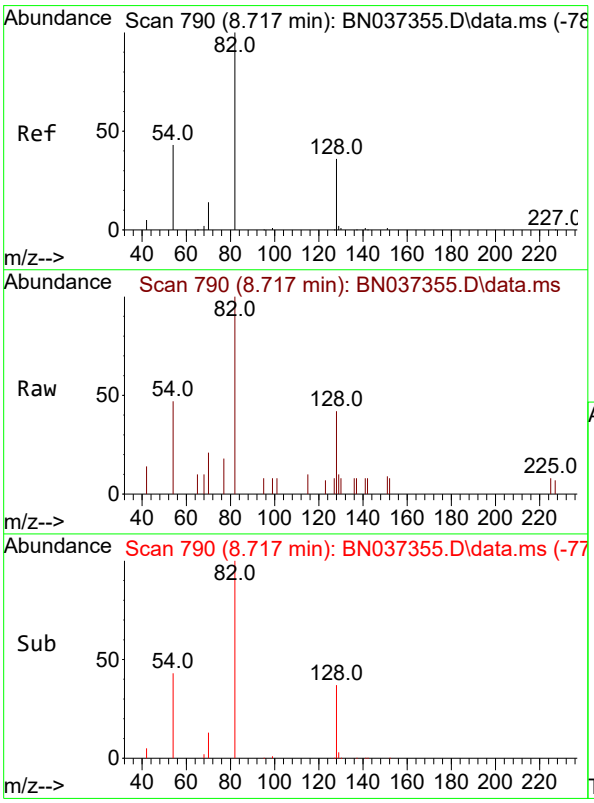
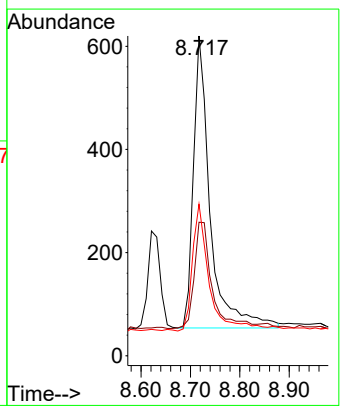
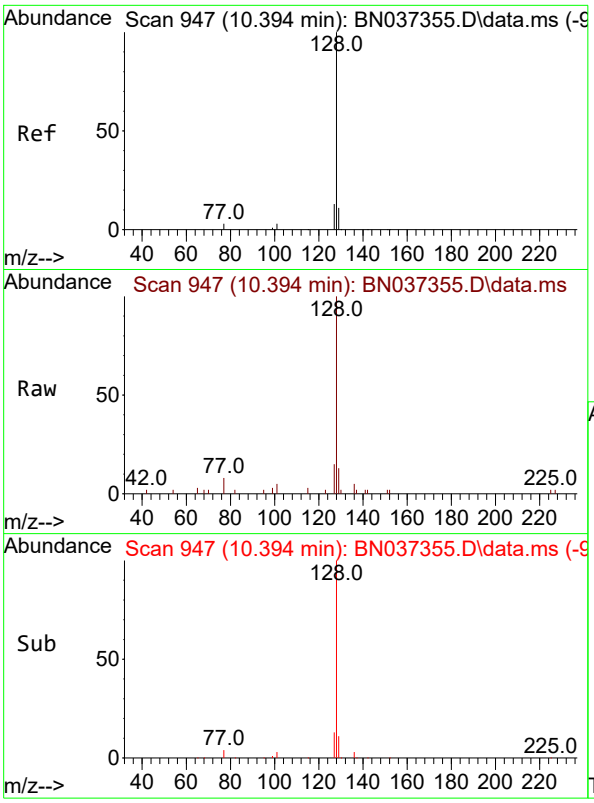


#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 82 Resp: 1327

Ion	Ratio	Lower	Upper
82	100		
128	41.8	42.5	63.7#
54	47.4	43.2	64.8





#9
Naphthalene
Concen: 0.403 ng
RT: 10.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:128 Resp: 434

Ion	Ratio	Lower	Upper
128	100		
129	12.5	14.0	21.0#
127	14.9	15.8	23.8#

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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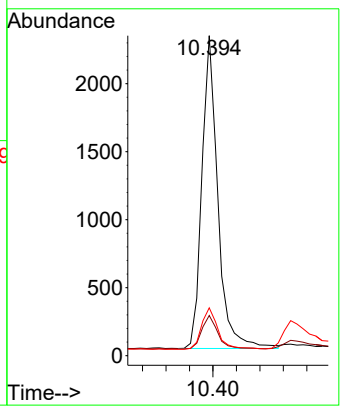
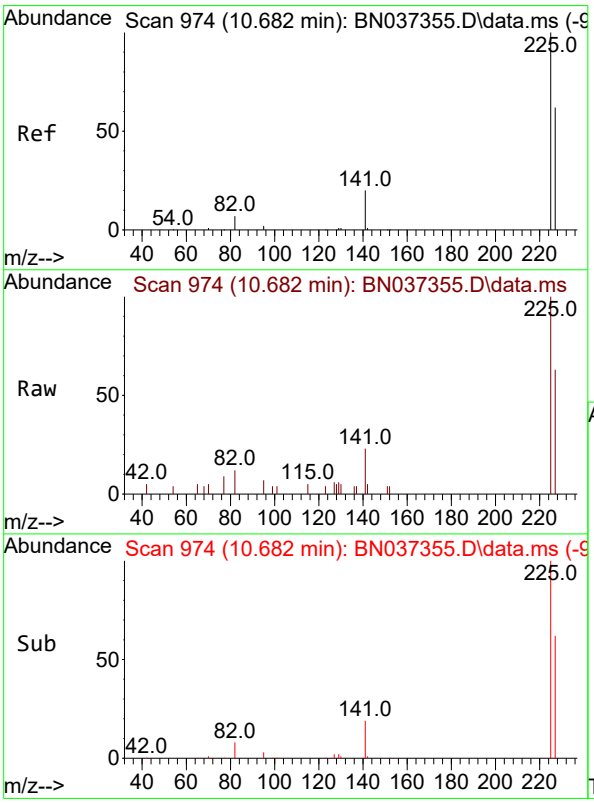
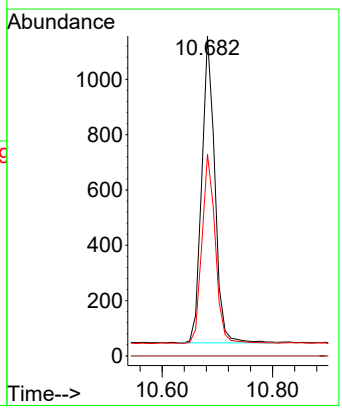


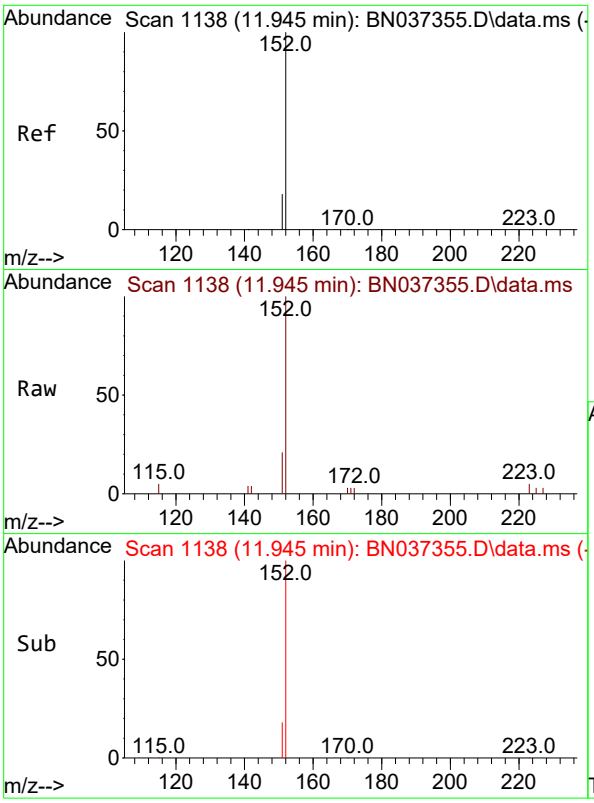


#10
Hexachlorobutadiene
Concen: 0.348 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:225 Resp: 1832

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.4	50.3	75.5





#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 11.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:152 Resp: 276

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.4	26.0

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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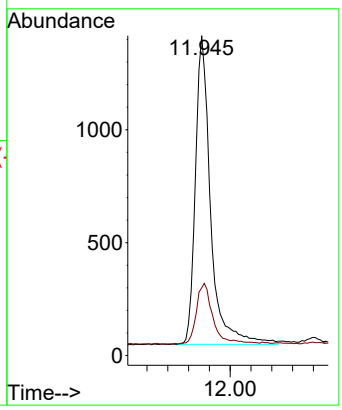
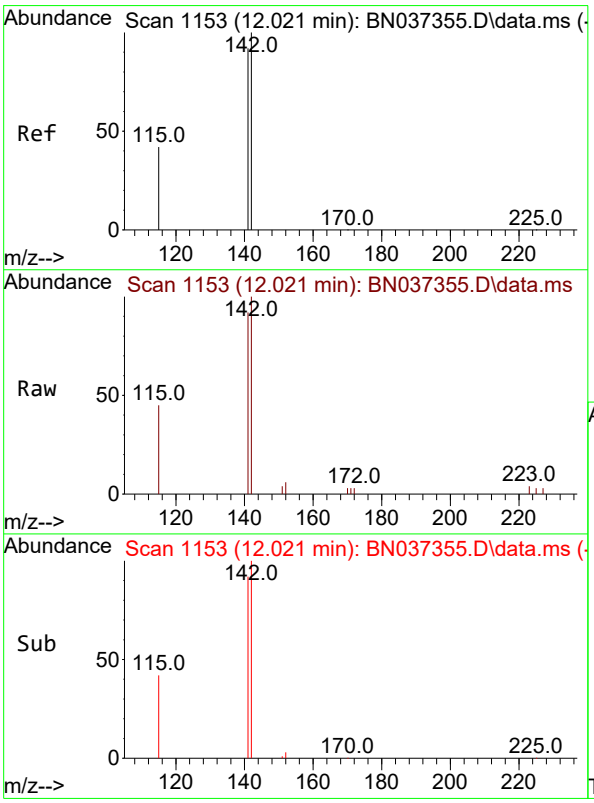
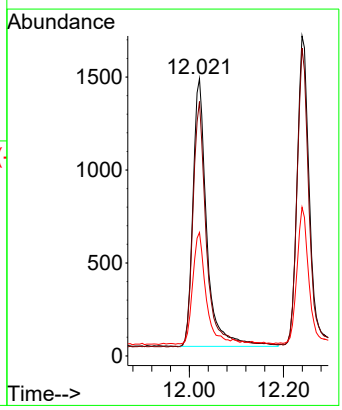


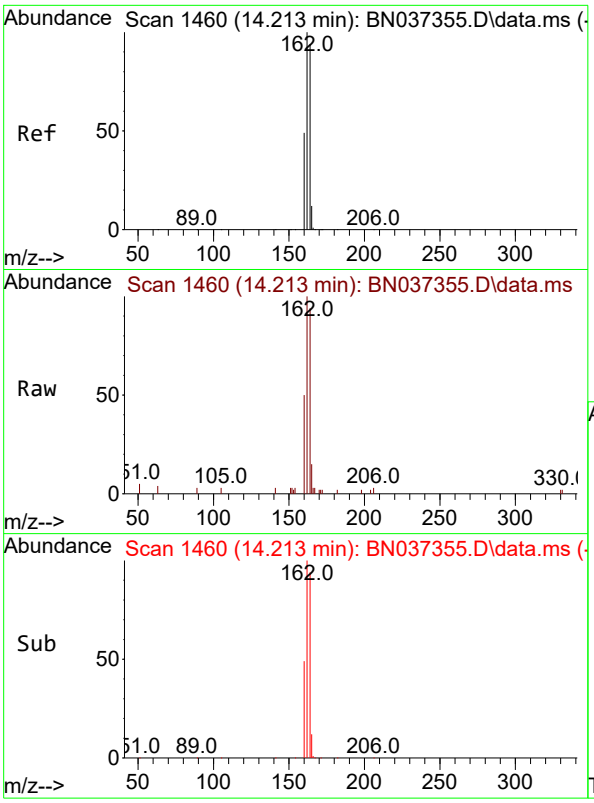


#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:142 Resp: 2957

Ion	Ratio	Lower	Upper
142	100		
141	91.8	70.2	105.2
115	44.5	43.0	64.4

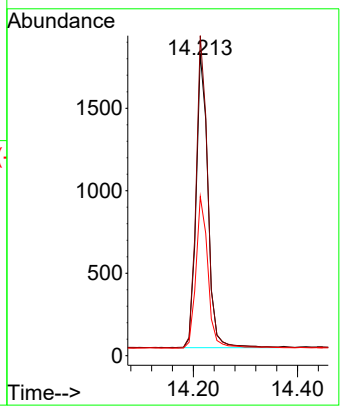




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:164 Resp: 281

Ion	Ratio	Lower	Upper
164	100		
162	106.2	81.5	122.3
160	52.8	43.0	64.4



Instrument :
BNA_N
ClientSampleId :
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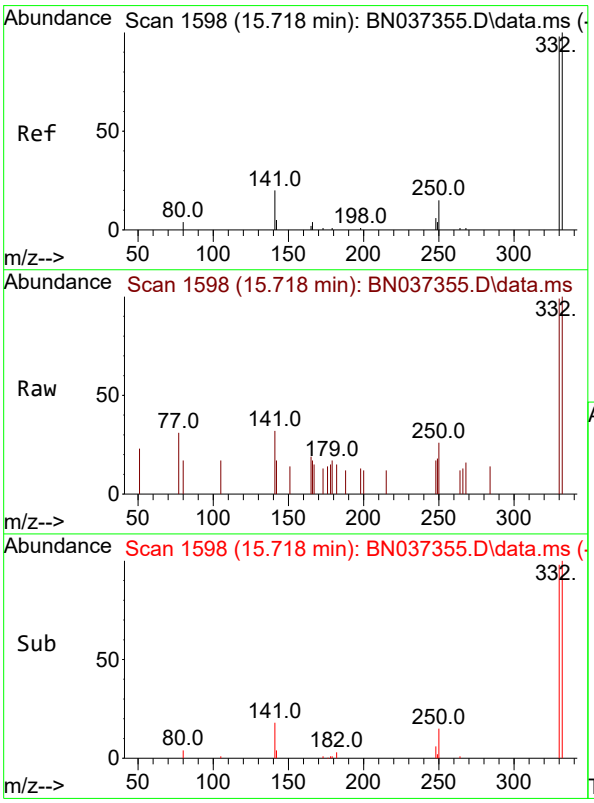
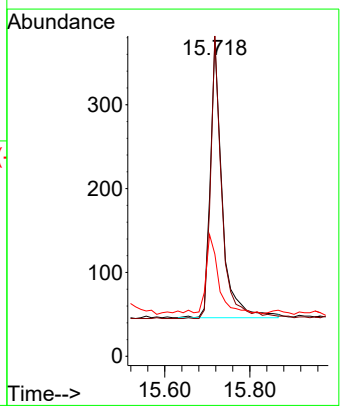
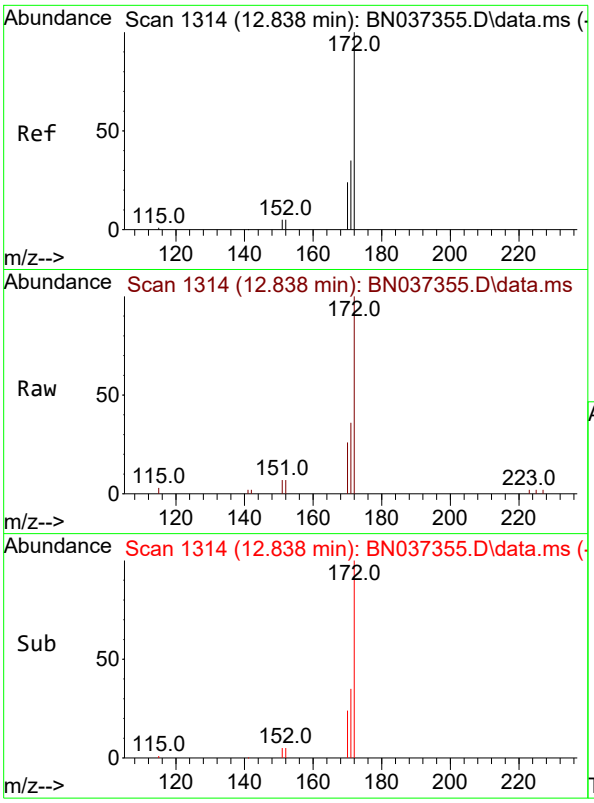


#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:330 Resp: 646

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.4	117.6
141	29.6	24.4	36.6

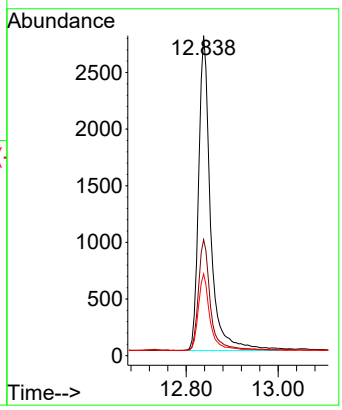




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.838 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:172 Resp: 499

Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.8	46.2
170	25.6	21.9	32.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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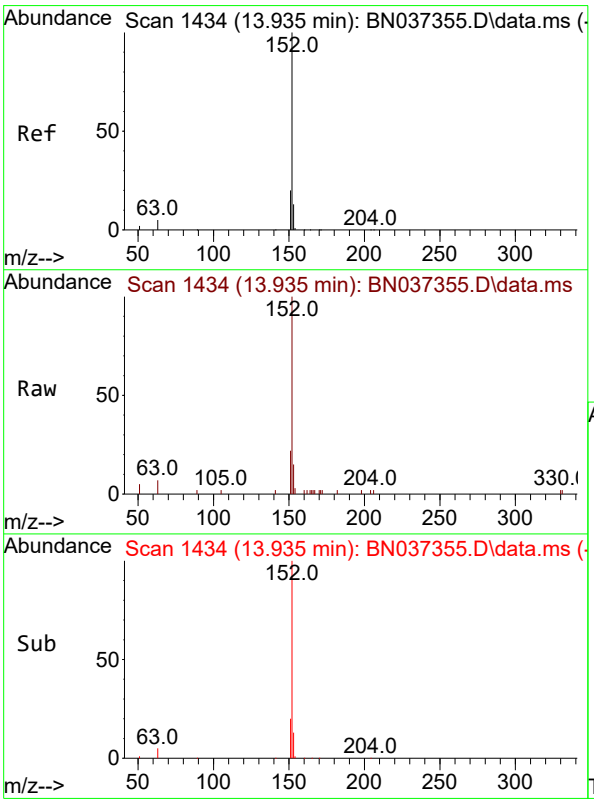
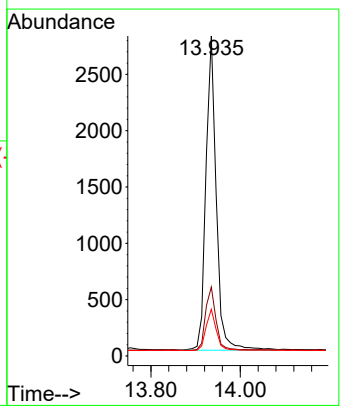
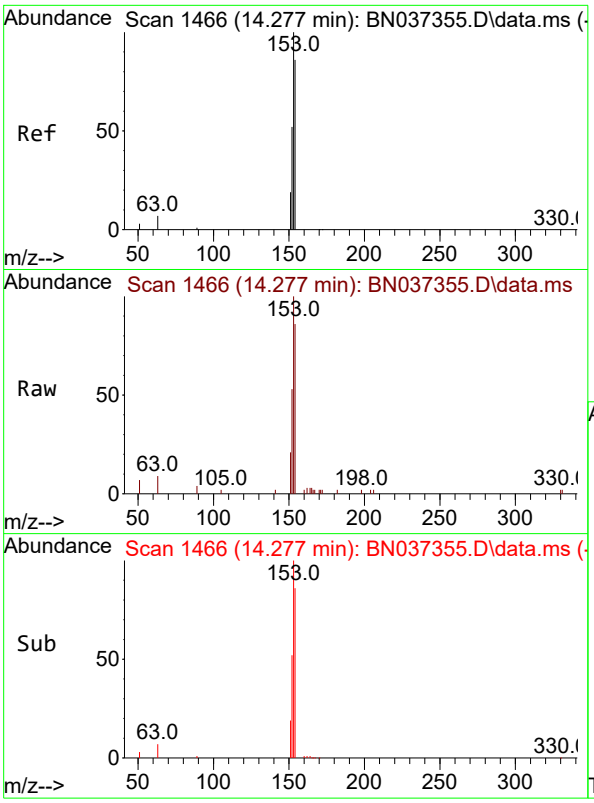


#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:152 Resp: 4490

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	24.8
153	13.1	10.2	15.2

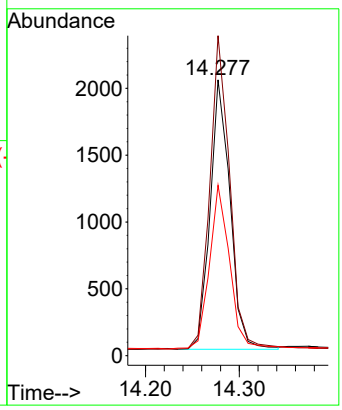




#17
Acenaphthene
Concen: 0.381 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:154 Resp: 298

Ion	Ratio	Lower	Upper
154	100		
153	117.6	93.1	139.7
152	63.0	48.6	73.0



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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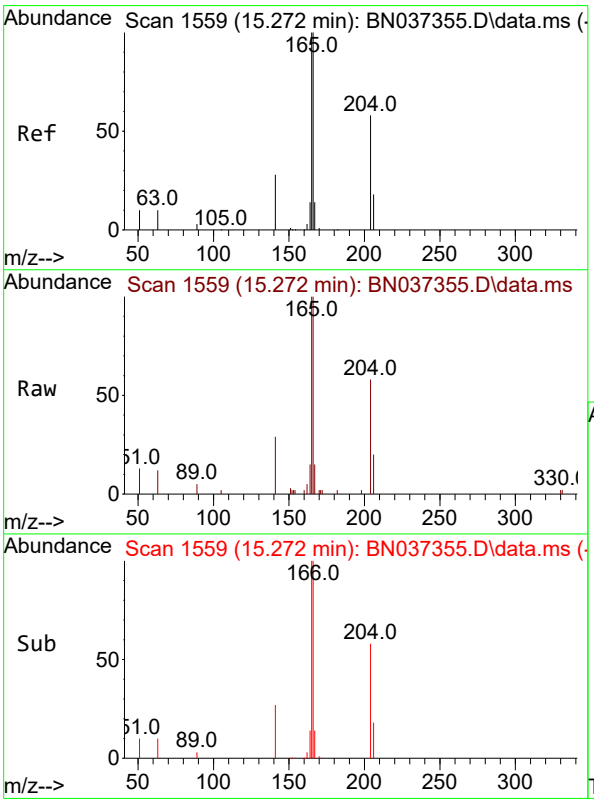
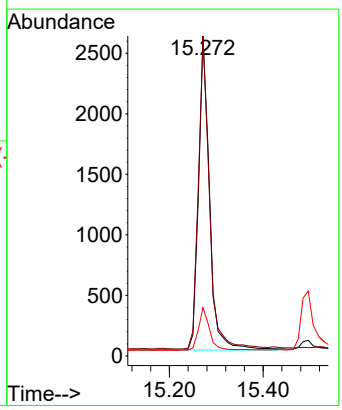
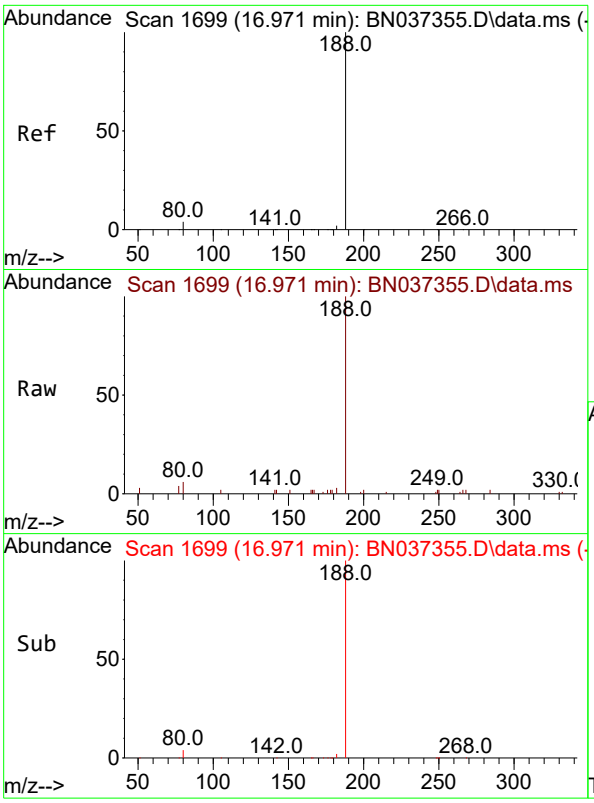


#18
Fluorene
Concen: 0.382 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:166 Resp: 4232

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.5	119.3
167	13.6	10.7	16.1

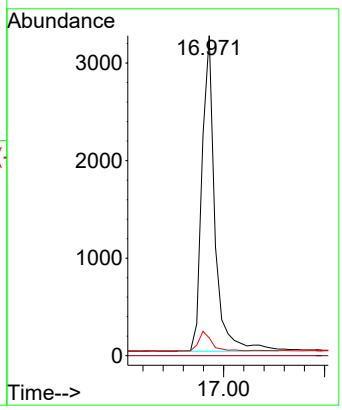




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:188 Resp: 577(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.6	6.2	9.2#



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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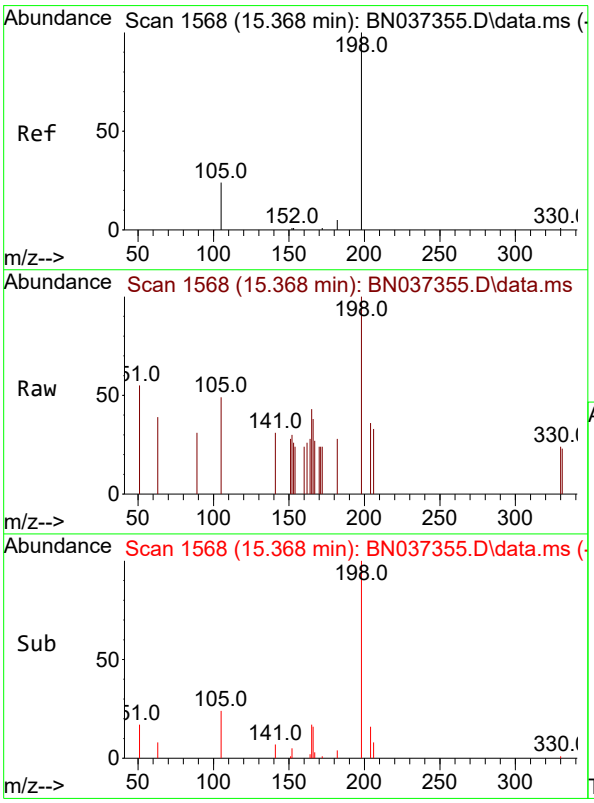
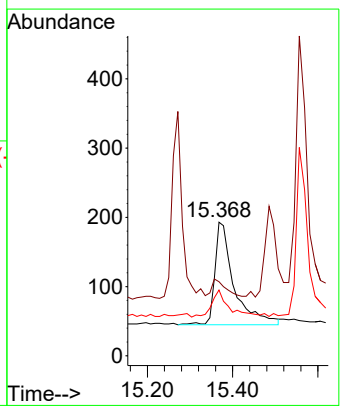
Supervised By :Jagrut Upadhyay 06/24/2025

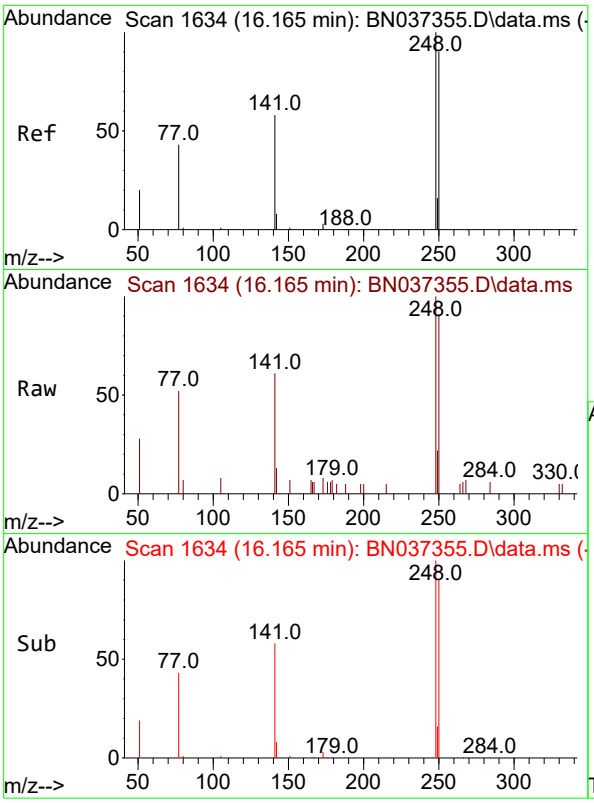


#20
4,6-Dinitro-2-methylphenol
Concen: 0.263 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:198 Resp: 459

Ion	Ratio	Lower	Upper
198	100		
51	55.4	51.4	77.0
105	49.2	45.5	68.3

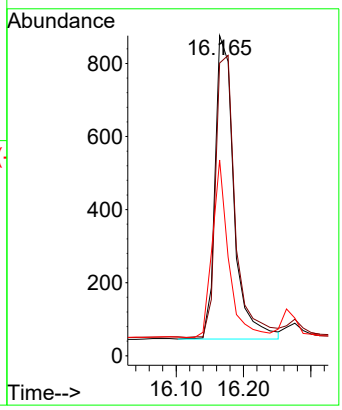




#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:248 Resp: 161

Ion	Ratio	Lower	Upper
248	100		
250	91.4	80.4	120.6
141	61.2	33.3	49.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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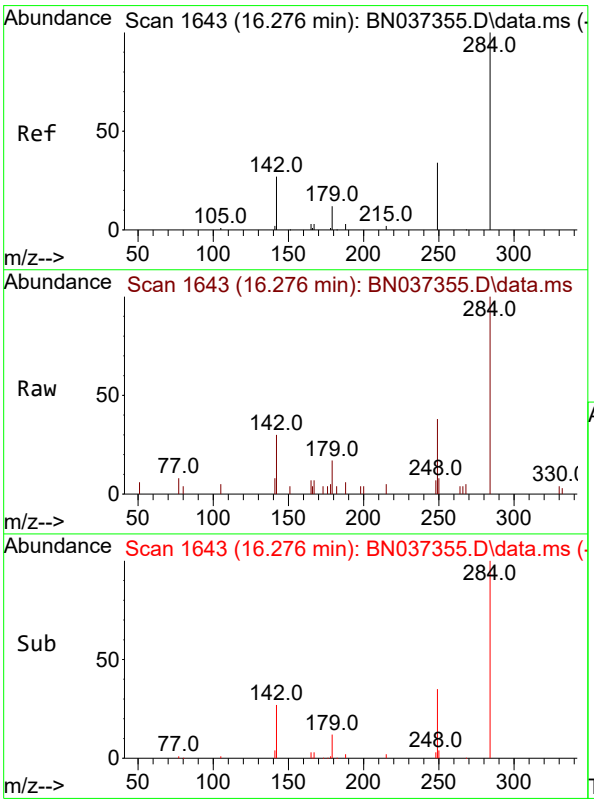
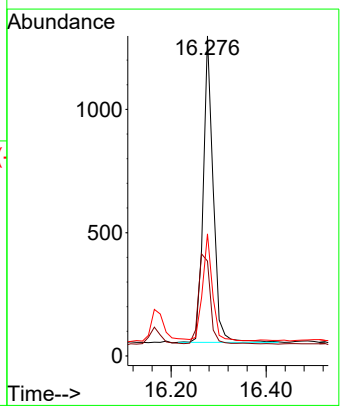
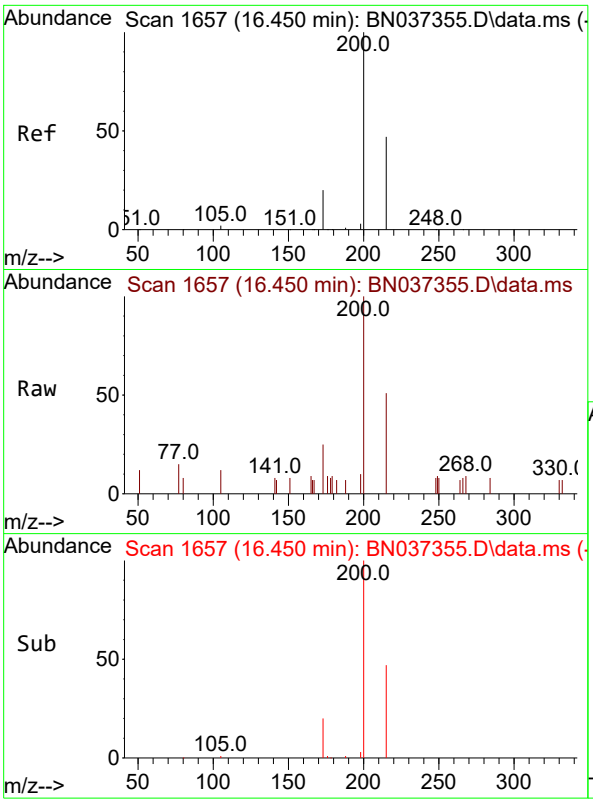


#22
Hexachlorobenzene
Concen: 0.369 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:284 Resp: 1814

Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.0	40.6
249	34.2	28.8	43.2

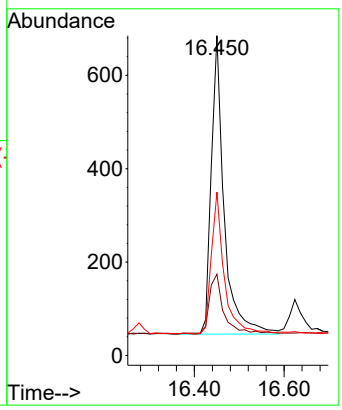




#23
Atrazine
Concen: 0.342 ng
RT: 16.450 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:200 Resp: 126

Ion	Ratio	Lower	Upper
200	100		
173	25.4	29.2	43.8#
215	51.1	48.8	73.2



Instrument :
BNA_N
ClientSampleId :
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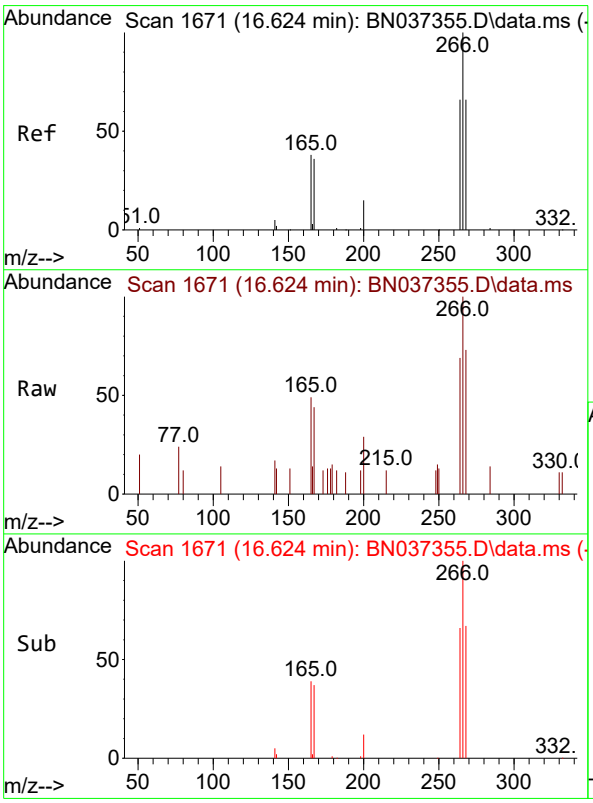
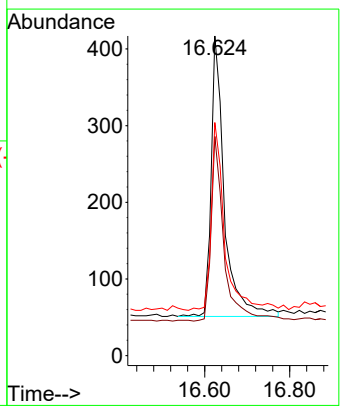
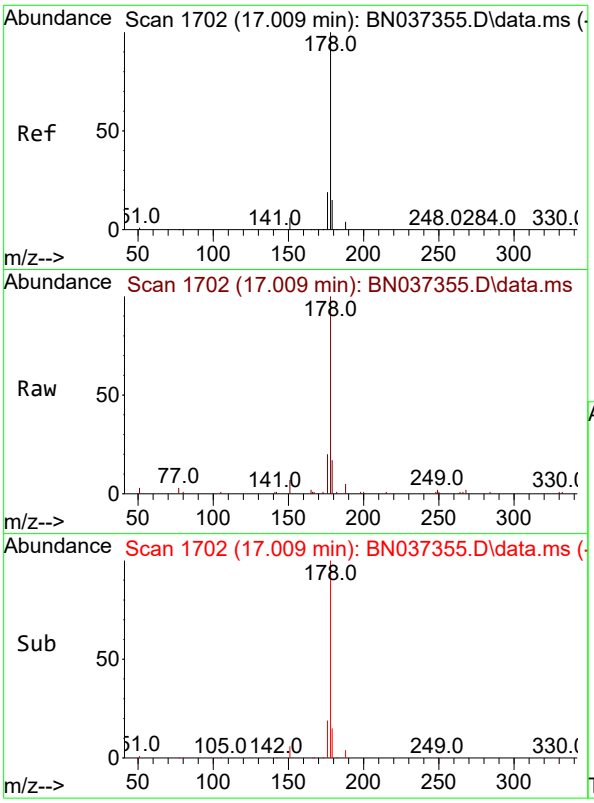


#24
Pentachlorophenol
Concen: 0.293 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:266 Resp: 792

Ion	Ratio	Lower	Upper
266	100		
264	64.3	50.3	75.5
268	67.4	55.3	82.9

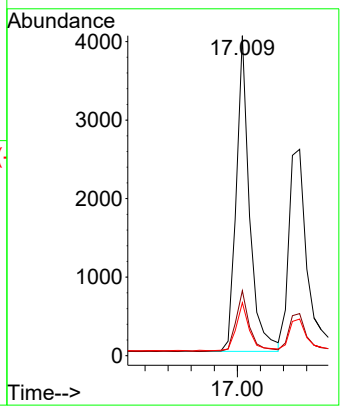




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:178 Resp: 637

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.2	22.8
179	15.8	12.9	19.3



Instrument :
BNA_N
ClientSampleId :
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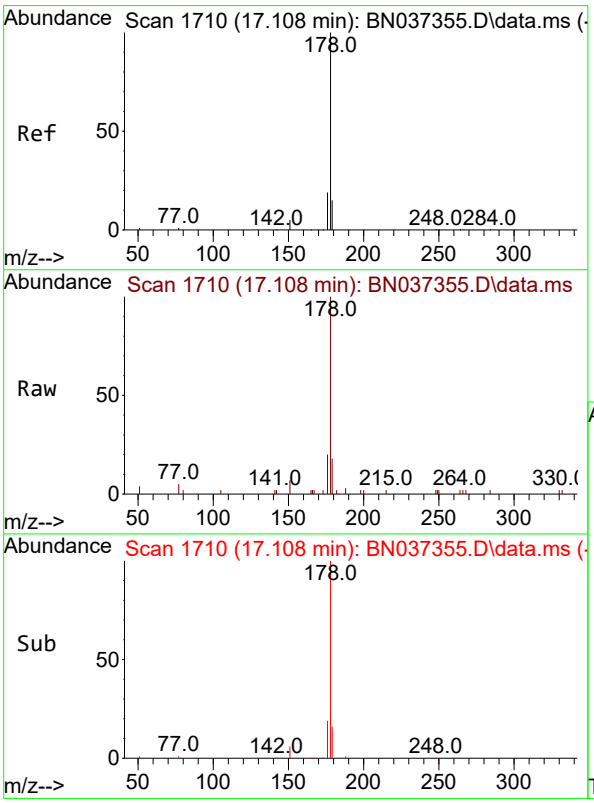
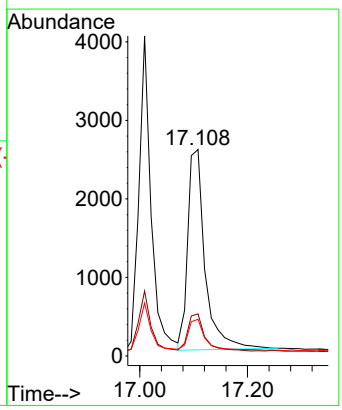
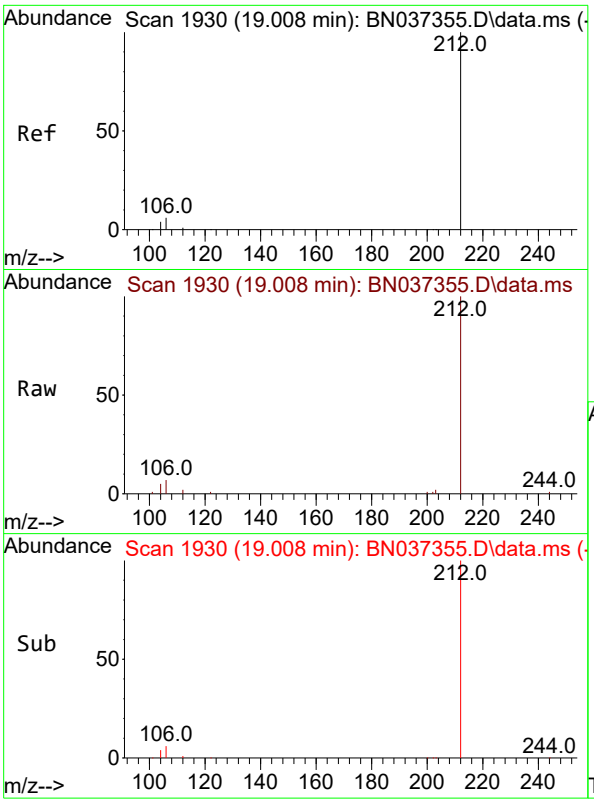


#26
Anthracene
Concen: 0.375 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:178 Resp: 5717

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.7	22.1
179	15.2	13.0	19.6

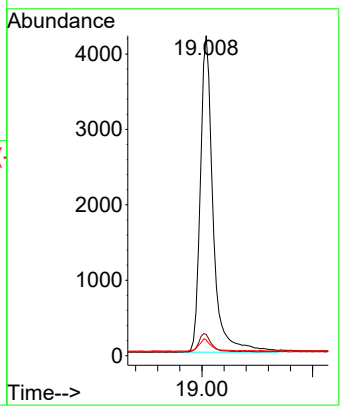




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.008 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:212 Resp: 670

Ion	Ratio	Lower	Upper
212	100		
106	5.8	3.0	4.4#
104	3.8	2.0	3.0#



Instrument :
BNA_N
ClientSampleId :
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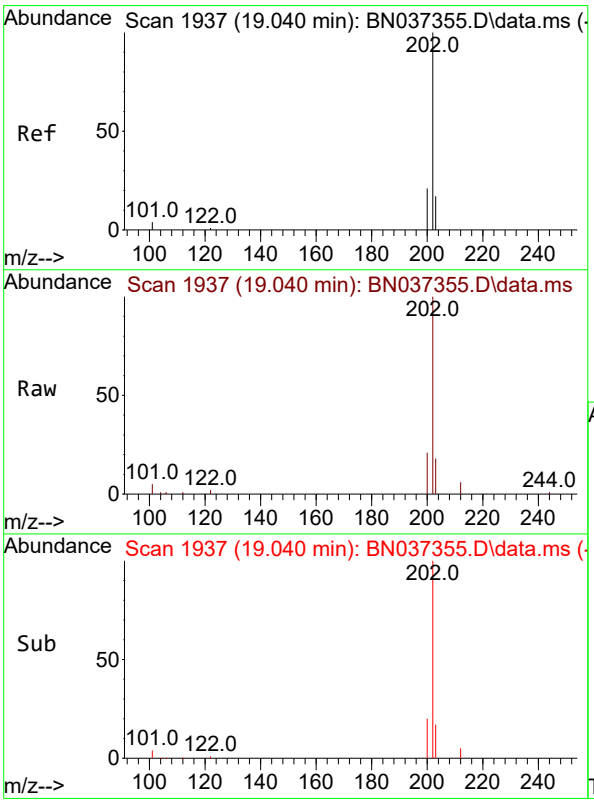
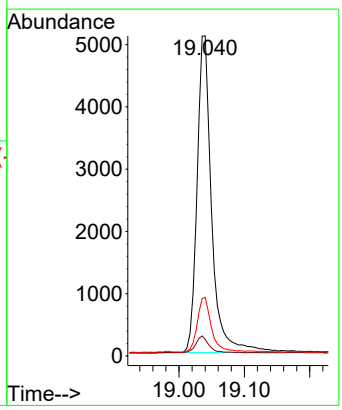
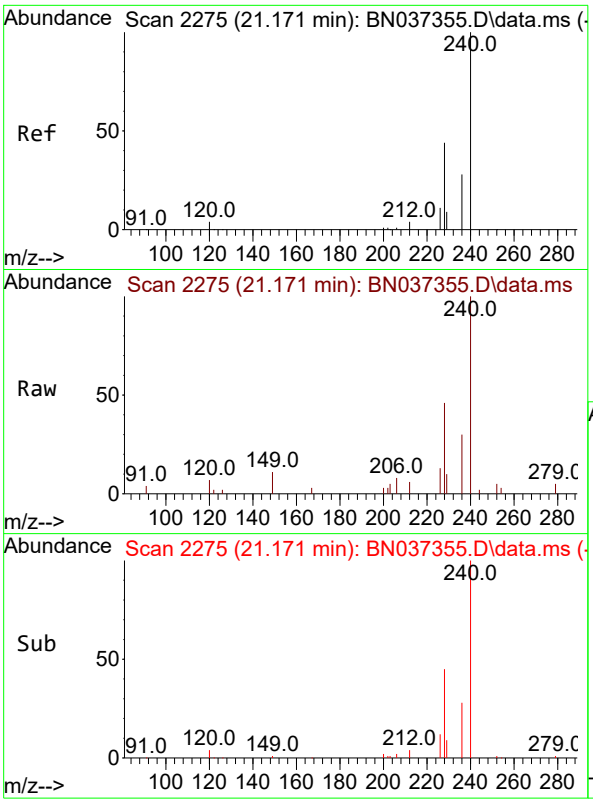


#28
Fluoranthene
Concen: 0.354 ng
RT: 19.040 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:202 Resp: 7896

Ion	Ratio	Lower	Upper
202	100		
101	5.2	3.0	4.6#
203	16.6	13.7	20.5

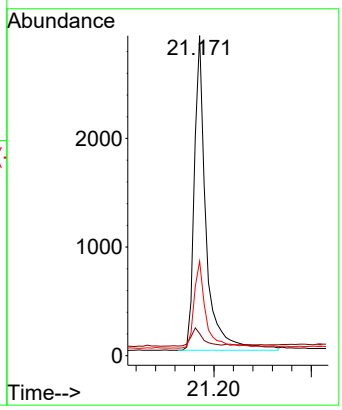




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:240 Resp: 481

Ion	Ratio	Lower	Upper
240	100		
120	6.9	7.5	11.3#
236	29.5	24.9	37.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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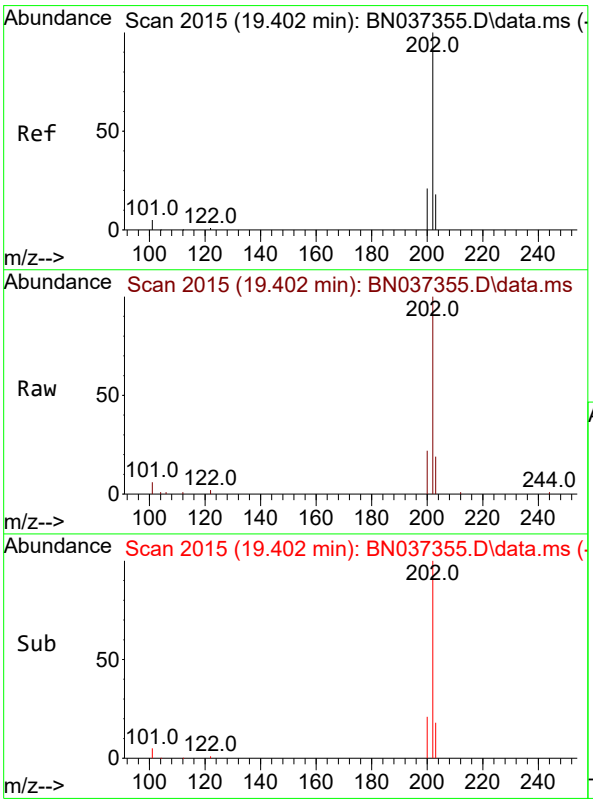
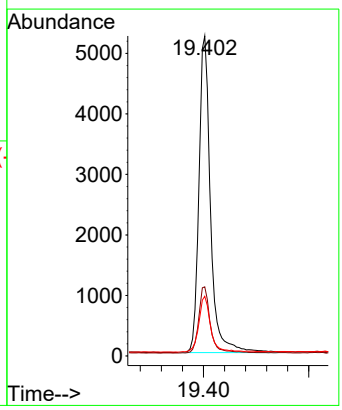
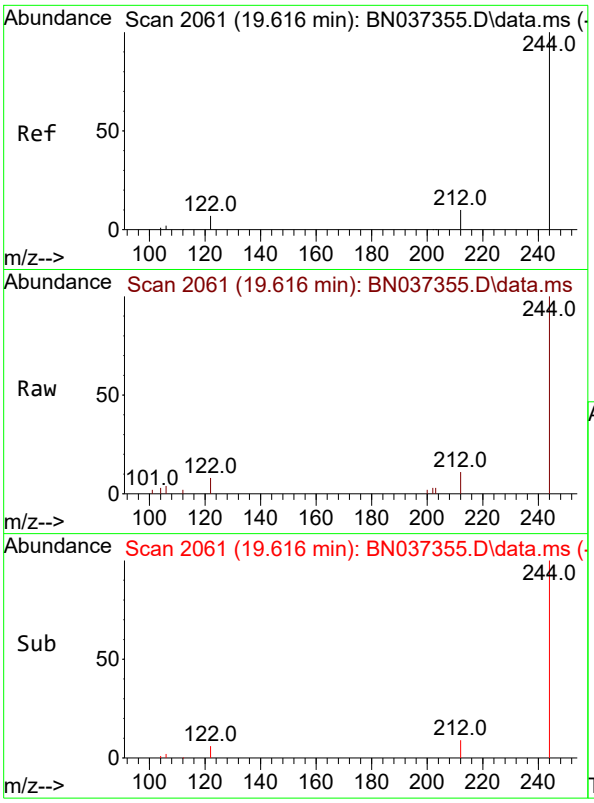


#30
Pyrene
Concen: 0.434 ng
RT: 19.402 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:202 Resp: 7990

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	18.0	14.5	21.7

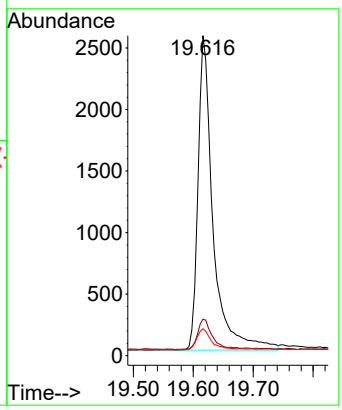




#31
Terphenyl-d14
Concen: 0.405 ng
RT: 19.616 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:244 Resp: 445

Ion	Ratio	Lower	Upper
244	100		
212	11.4	11.1	16.7
122	8.5	7.2	10.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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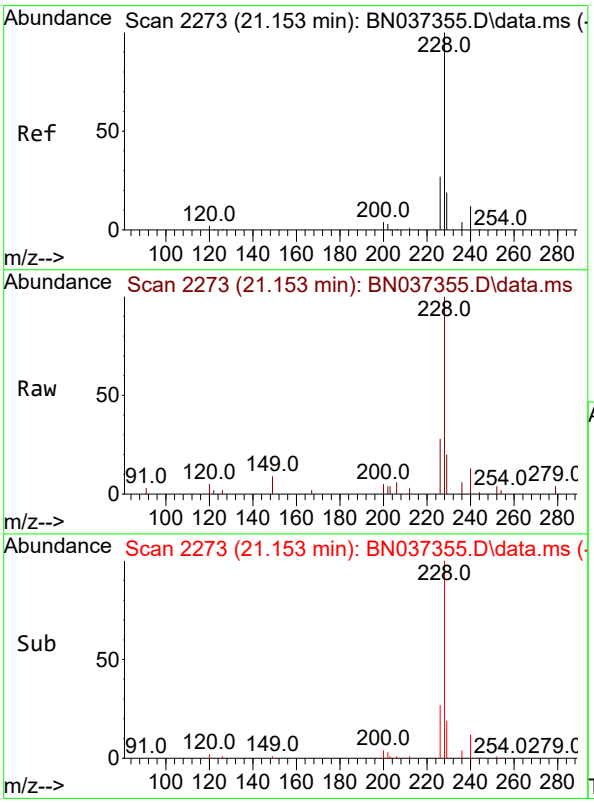
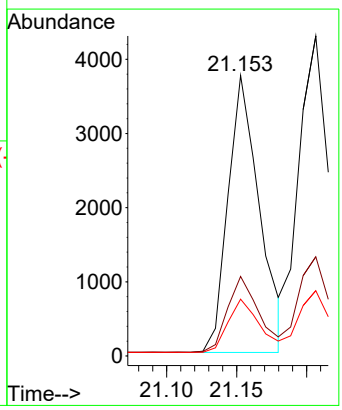
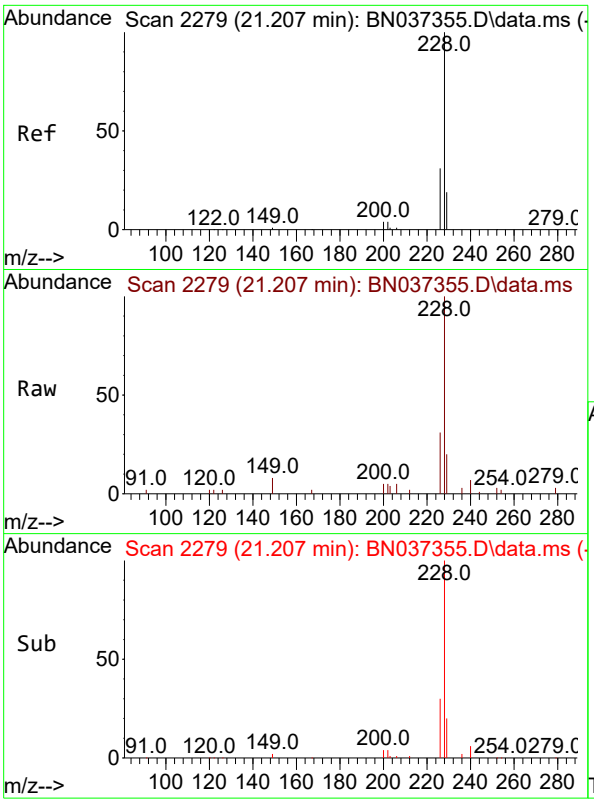


#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:228 Resp: 5851

Ion	Ratio	Lower	Upper
228	100		
226	28.4	23.0	34.4
229	20.3	17.4	26.0

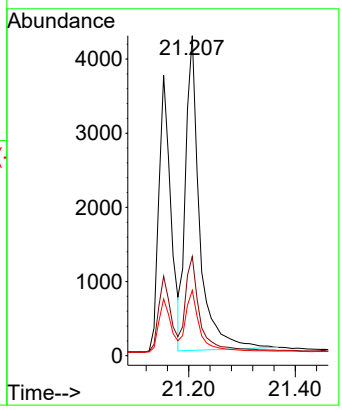




#33
Chrysene
Concen: 0.394 ng
RT: 21.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:228 Resp: 775

Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.4	38.2
229	20.4	17.3	25.9



Instrument :
BNA_N
ClientSampleId :
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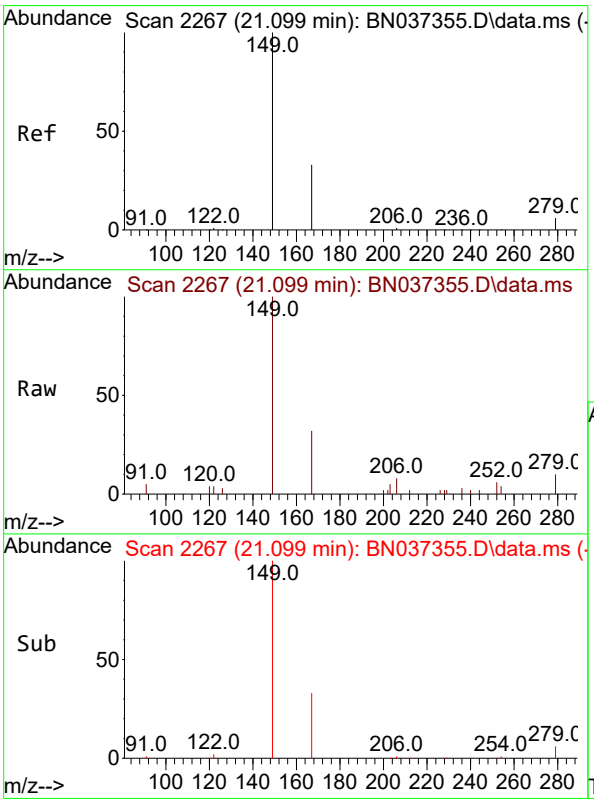
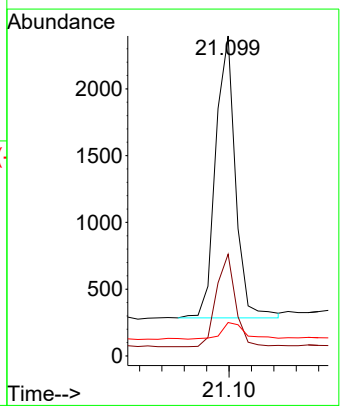
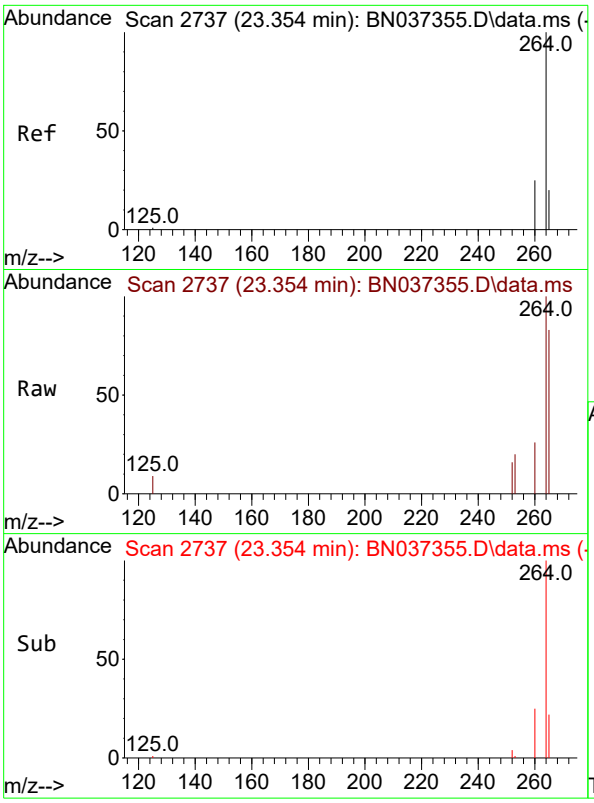


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.409 ng
RT: 21.099 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:149 Resp: 2603

Ion	Ratio	Lower	Upper
149	100		
167	31.9	24.6	37.0
279	7.2	6.5	9.7

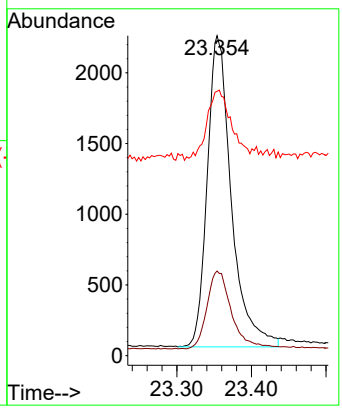




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:264 Resp: 494

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.2
265	82.6	71.4	107.0



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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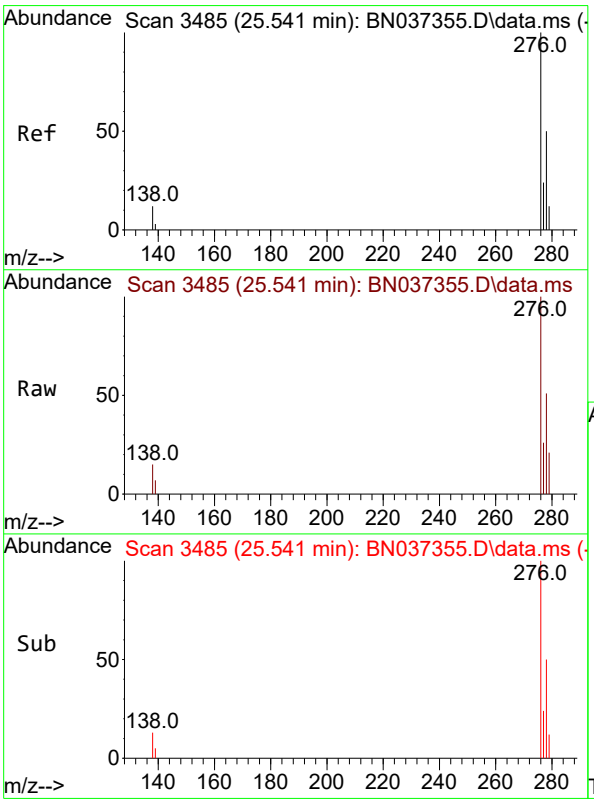
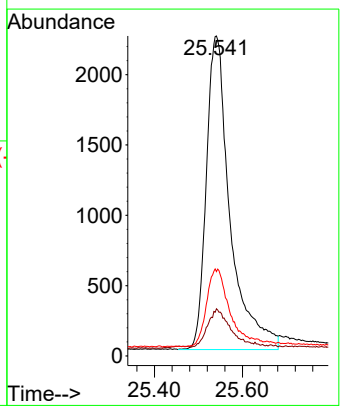
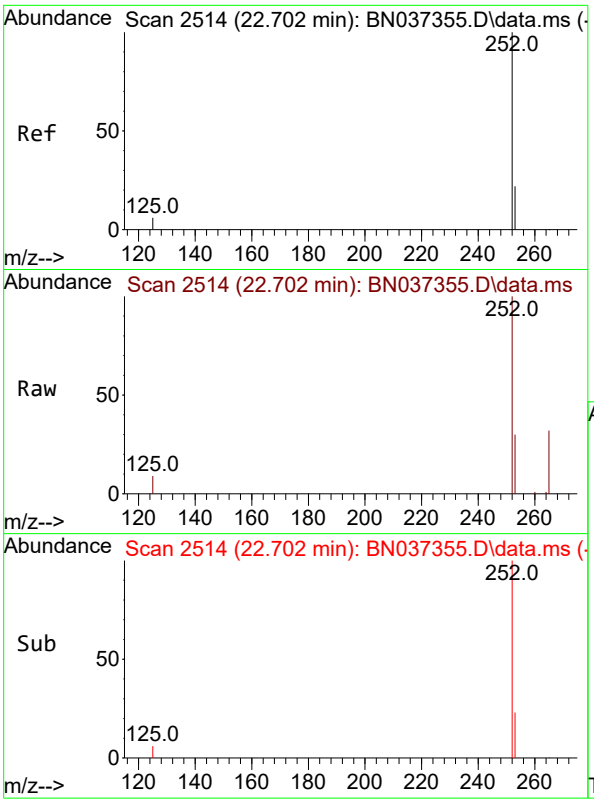


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.400 ng
RT: 25.541 min Scan# 3485
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:276 Resp: 8379

Ion	Ratio	Lower	Upper
276	100		
138	11.3	2.2	3.2#
277	23.4	17.1	25.7

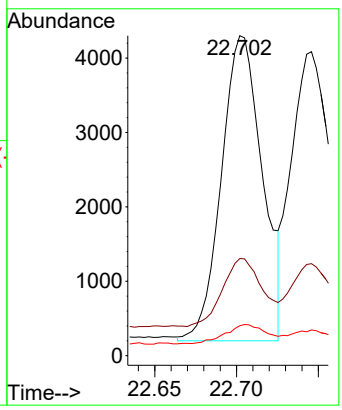




#37
Benzo(b)fluoranthene
Concen: 0.407 ng m
RT: 22.702 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:252 Resp: 713

Ion	Ratio	Lower	Upper
252	100		
253	30.3	26.6	40.0
125	9.4	6.1	9.1



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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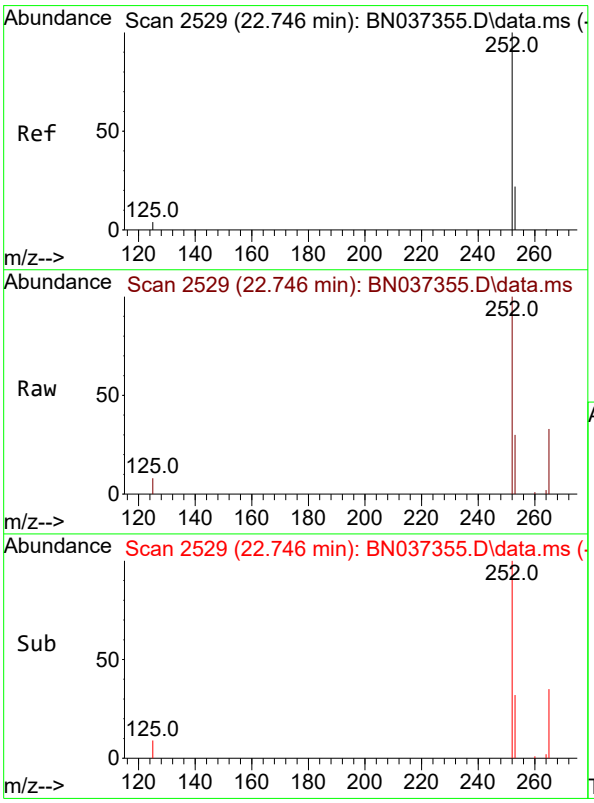
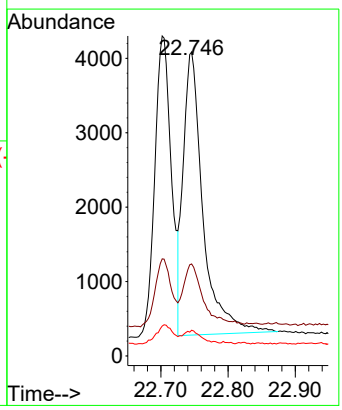
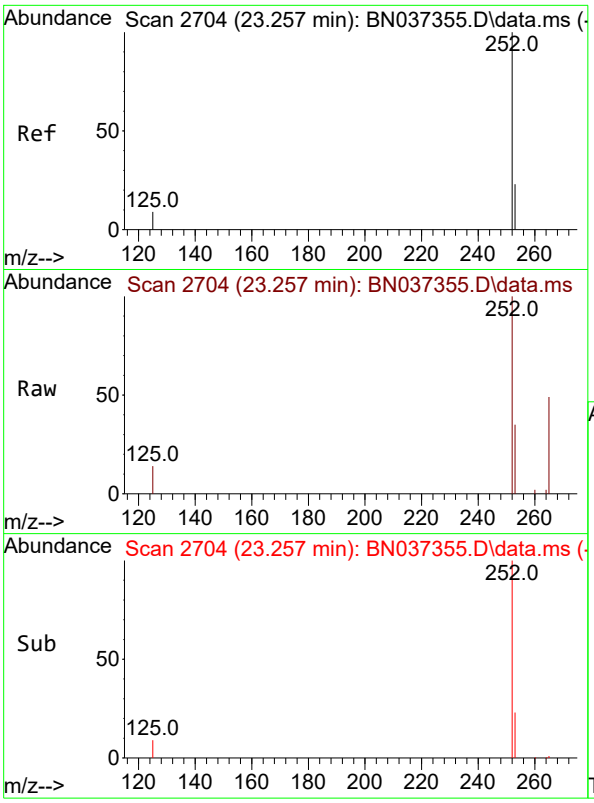


#38
Benzo(k)fluoranthene
Concen: 0.407 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:252 Resp: 7755

Ion	Ratio	Lower	Upper
252	100		
253	30.3	26.7	40.1
125	8.5	6.5	9.7

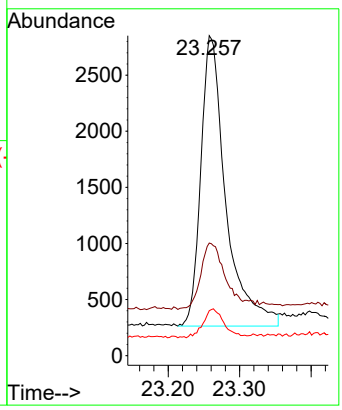




#39
Benzo(a)pyrene
Concen: 0.393 ng
RT: 23.257 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:252 Resp: 629

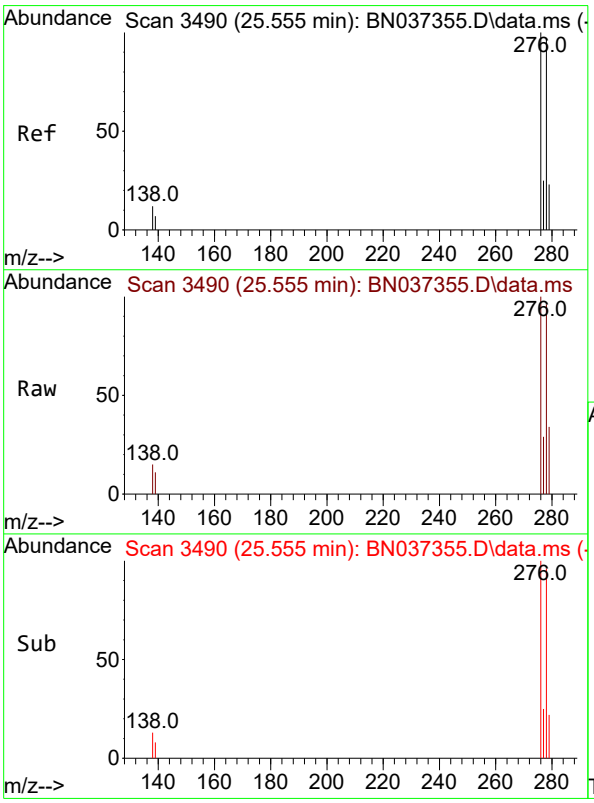
Ion	Ratio	Lower	Upper
252	100		
253	35.2	31.6	47.4
125	14.0	8.4	12.6#



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

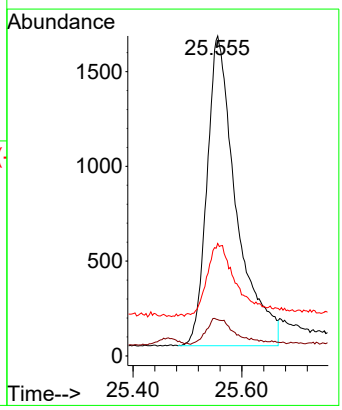
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

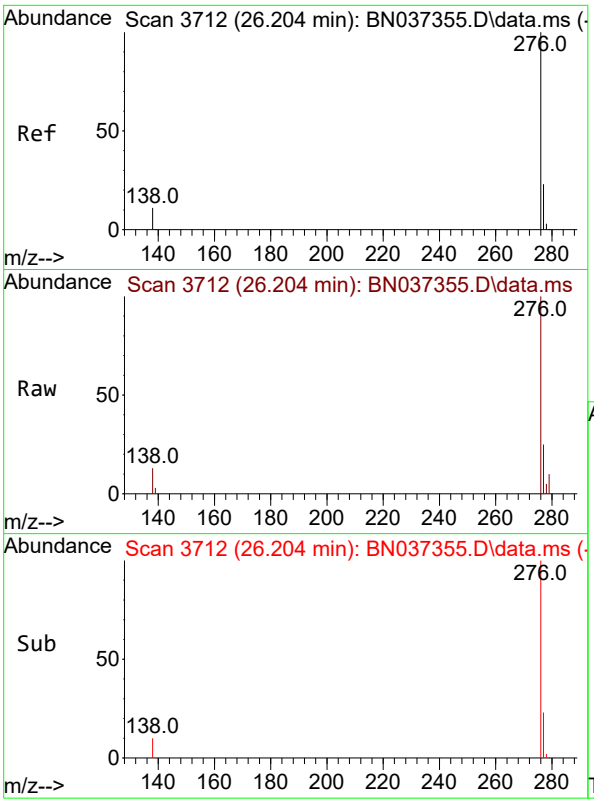


#40
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 25.555 min Scan# 3490
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:278 Resp: 6108

Ion	Ratio	Lower	Upper
278	100		
139	11.3	10.2	15.4
279	35.1	35.6	53.4#

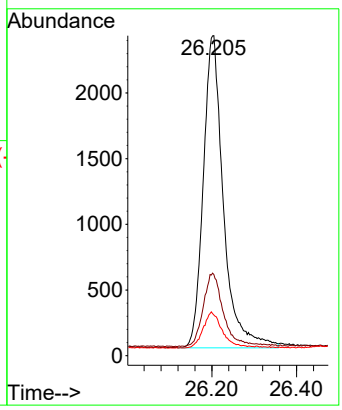




#41
Benzo(g,h,i)perylene
Concen: 0.408 ng
RT: 26.204 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:276 Resp: 785

Ion	Ratio	Lower	Upper
276	100		
277	25.4	22.7	34.1
138	12.7	9.4	14.2



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037356.D
Acq On : 20 Jun 2025 18:39
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 20 23:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	2011	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4268	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	2836	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5716	0.400	ng	#	0.00
29) Chrysene-d12	21.162	240	5944	0.400	ng		0.00
35) Perylene-d12	23.351	264	6423	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	3141	0.854	ng		0.00
5) Phenol-d6	6.744	99	3157	0.868	ng		0.00
8) Nitrobenzene-d5	8.717	82	2717	0.767	ng		0.00
11) 2-Methylnaphthalene-d10	11.940	152	5209	0.754	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	1310	0.646	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	9720	0.781	ng		0.00
27) Fluoranthene-d10	19.003	212	13334	0.749	ng		0.00
31) Terphenyl-d14	19.616	244	9859	0.726	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	1657	0.933	ng		93
3) n-Nitrosodimethylamine	3.415	42	1478	0.715	ng	#	74
6) bis(2-Chloroethyl)ether	7.004	93	2967	0.932	ng		96
9) Naphthalene	10.394	128	8659	0.783	ng	#	87
10) Hexachlorobutadiene	10.682	225	3472	0.642	ng	#	99
12) 2-Methylnaphthalene	12.016	142	6007	0.772	ng		93
16) Acenaphthylene	13.935	152	9047	0.760	ng		99
17) Acenaphthene	14.277	154	5960	0.755	ng		100
18) Fluorene	15.272	166	8453	0.756	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	1108	0.641	ng	#	55
21) 4-Bromophenyl-phenylether	16.165	248	3252	0.697	ng	#	89
22) Hexachlorobenzene	16.276	284	3471	0.713	ng		98
23) Atrazine	16.450	200	2516	0.689	ng	#	82
24) Pentachlorophenol	16.624	266	1797	0.673	ng		96
25) Phenanthrene	17.009	178	13016	0.806	ng		99
26) Anthracene	17.096	178	12050	0.799	ng		99
28) Fluoranthene	19.035	202	17056	0.772	ng	#	99
30) Pyrene	19.398	202	17163	0.754	ng		100
32) Benzo(a)anthracene	21.153	228	15193	0.792	ng		97
33) Chrysene	21.198	228	17610	0.724	ng		98
34) Bis(2-ethylhexyl)phtha...	21.099	149	5787	0.736	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.535	276	22625	0.831	ng	#	91
37) Benzo(b)fluoranthene	22.696	252	17878	0.785	ng	#	87
38) Benzo(k)fluoranthene	22.740	252	18833	0.761	ng	#	86
39) Benzo(a)pyrene	23.257	252	16022	0.769	ng	#	84
40) Dibenzo(a,h)anthracene	25.547	278	17405	0.803	ng	#	77
41) Benzo(g,h,i)perylene	26.202	276	20041	0.801	ng		94

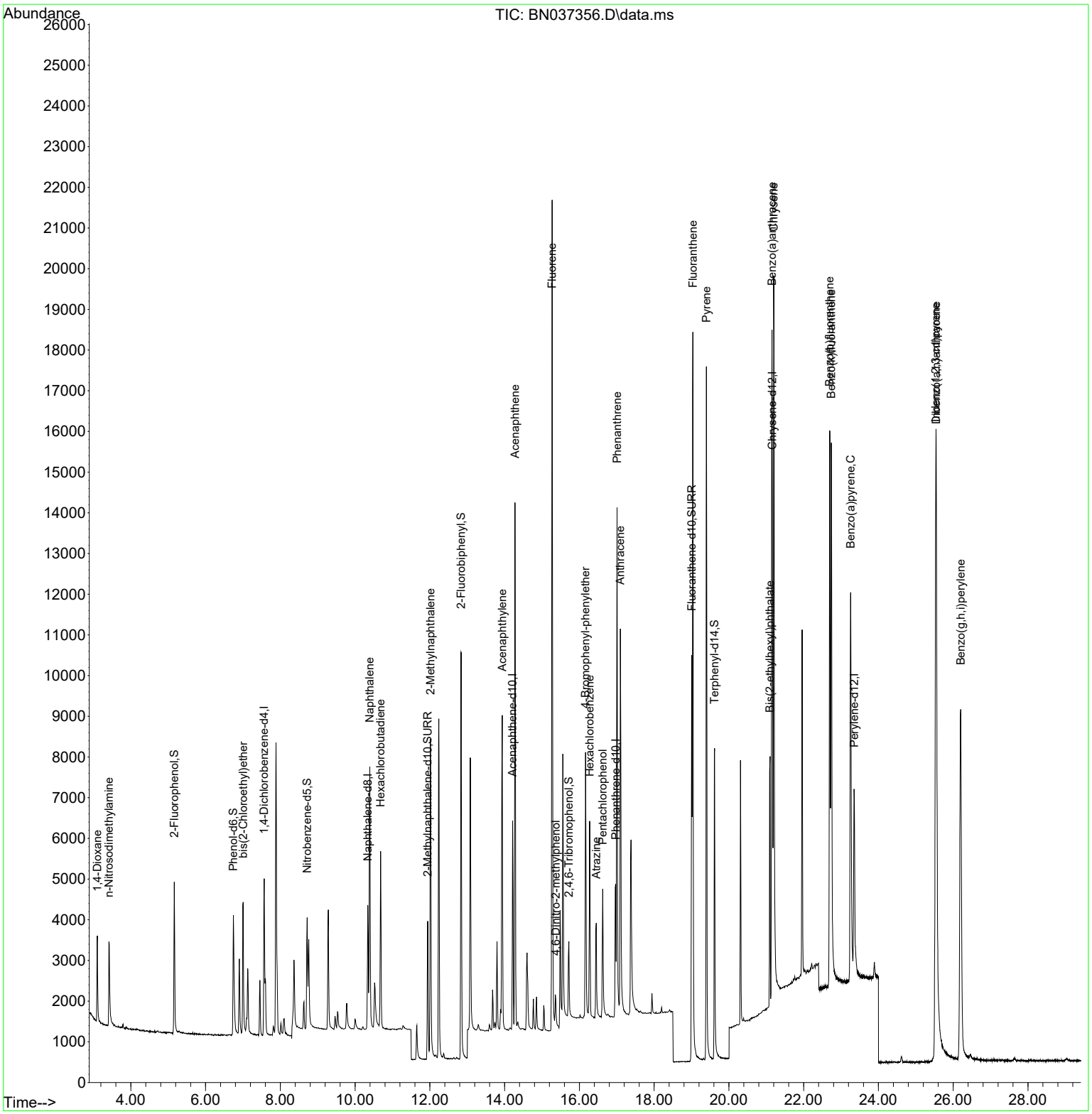
(#) = qualifier out of range (m) = manual integration (+) = signals summed

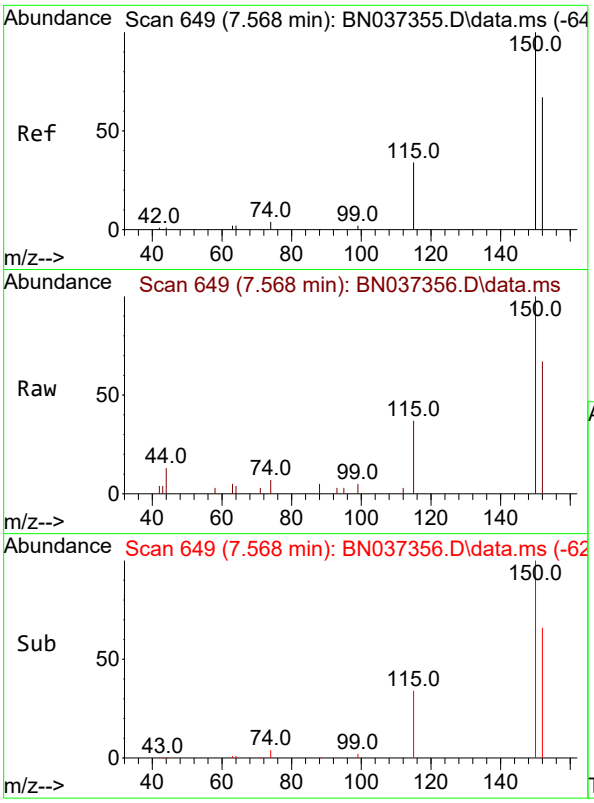
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037356.D
Acq On : 20 Jun 2025 18:39
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 20 23:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



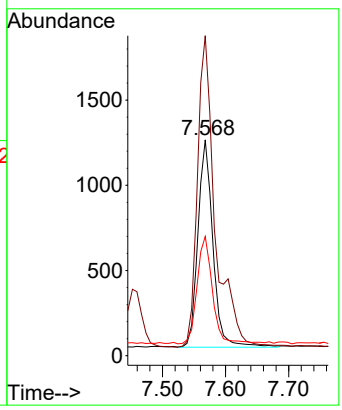


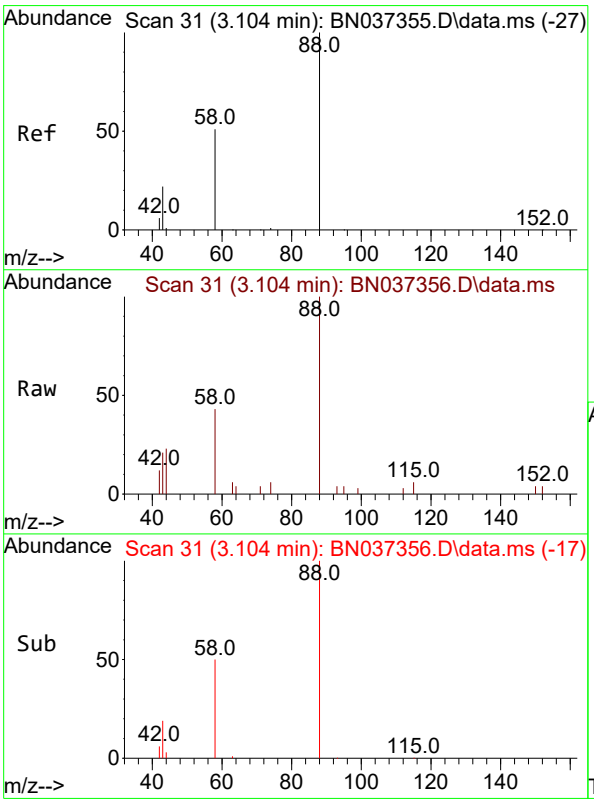
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2011

Ion	Ratio	Lower	Upper
152	100		
150	148.2	112.7	169.1
115	55.2	45.9	68.9

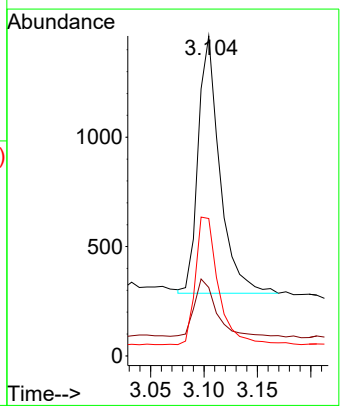


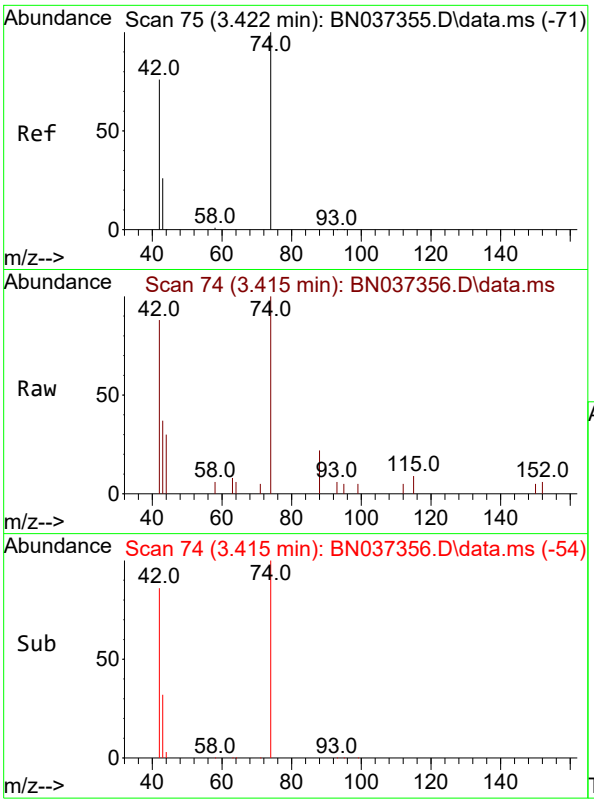


#2
1,4-Dioxane
Concen: 0.933 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion: 88 Resp: 1657

Ion	Ratio	Lower	Upper
88	100		
43	23.4	21.0	31.6
58	52.7	38.0	57.0



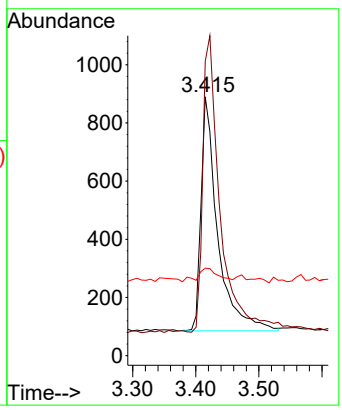


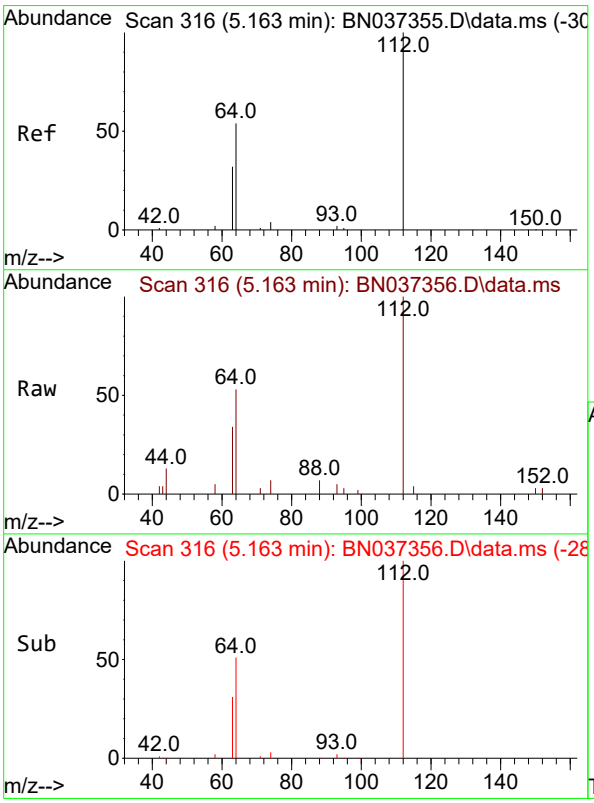
#3
n-Nitrosodimethylamine
Concen: 0.715 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1478

Ion	Ratio	Lower	Upper
42	100		
74	133.4	84.3	126.5#
44	7.1	5.0	7.4

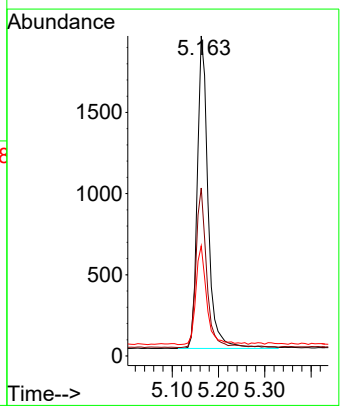


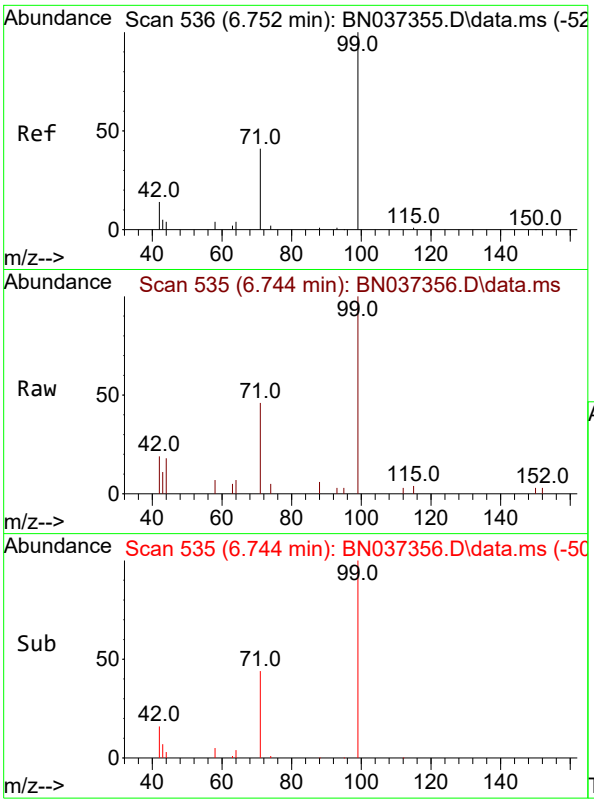


#4
2-Fluorophenol
Concen: 0.854 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:112 Resp: 3141

Ion	Ratio	Lower	Upper
112	100		
64	50.2	38.7	58.1
63	31.9	26.4	39.6



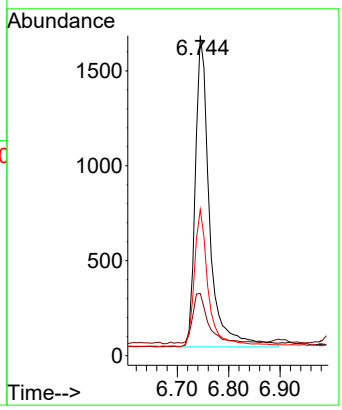


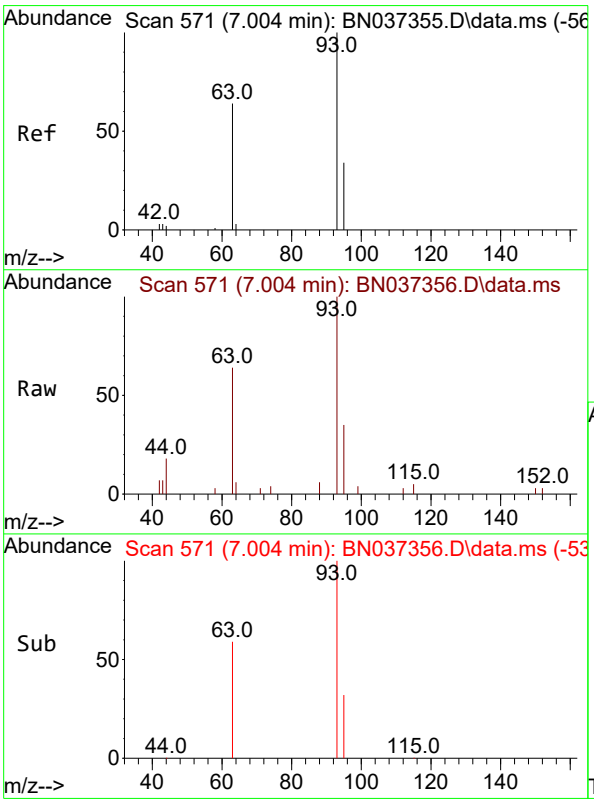
#5
Phenol-d6
Concen: 0.868 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 3157

Ion	Ratio	Lower	Upper
99	100		
42	17.5	19.8	29.8#
71	43.4	42.6	64.0

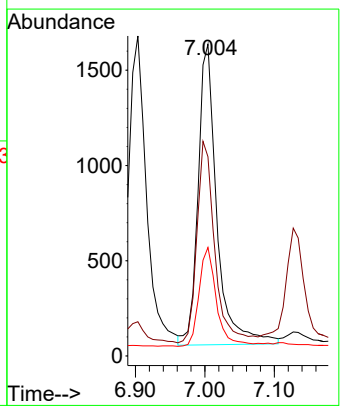


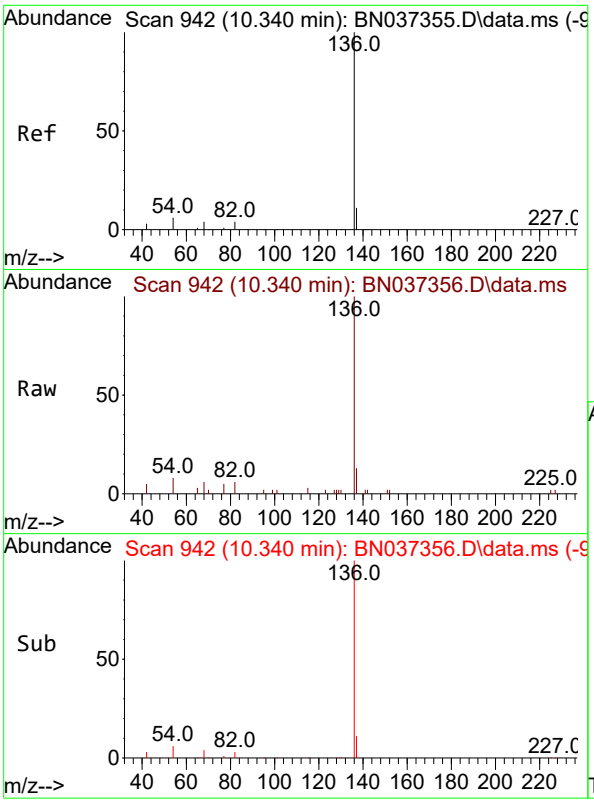


#6
bis(2-Chloroethyl)ether
Concen: 0.932 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion: 93 Resp: 2967

Ion	Ratio	Lower	Upper
93	100		
63	64.0	53.2	79.8
95	30.4	27.3	40.9



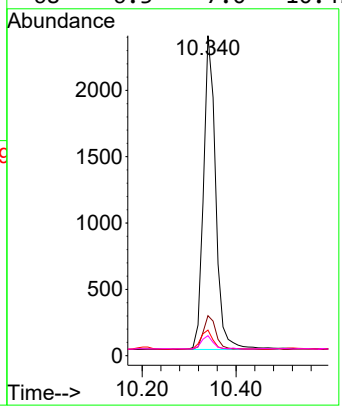


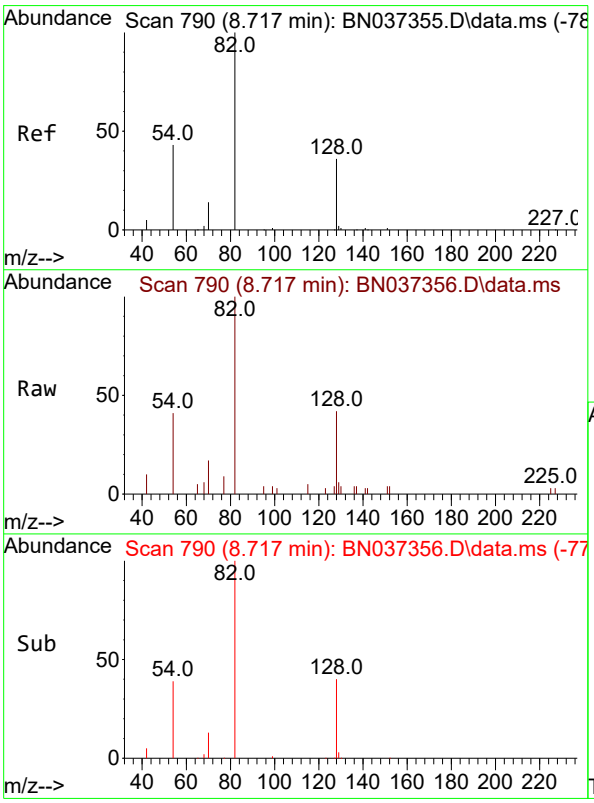
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 4268

Ion	Ratio	Lower	Upper
136	100		
137	12.5	12.2	18.2
54	8.0	8.8	13.2#
68	6.3	7.0	10.4#

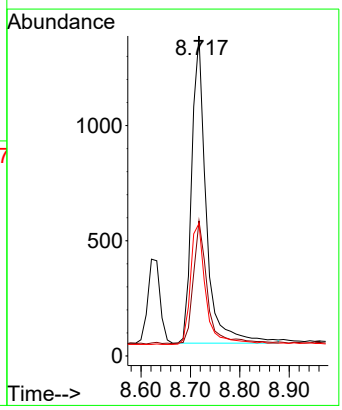


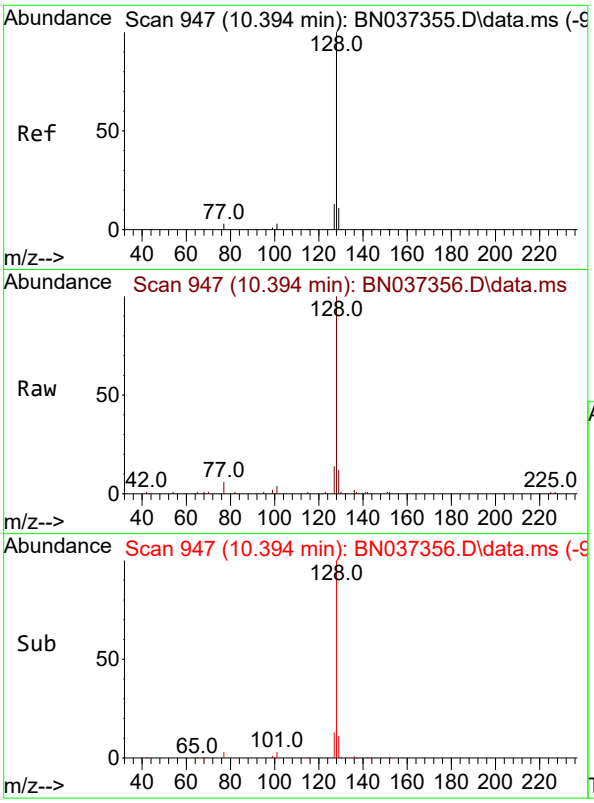


#8
Nitrobenzene-d5
Concen: 0.767 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion: 82 Resp: 2717

Ion	Ratio	Lower	Upper
82	100		
128	42.2	42.5	63.7#
54	41.4	43.2	64.8#



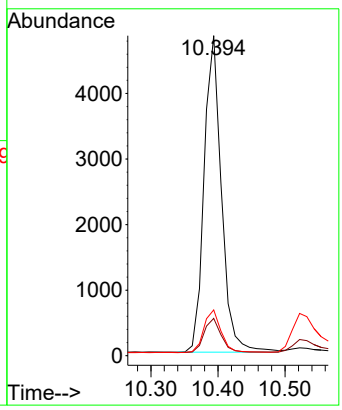


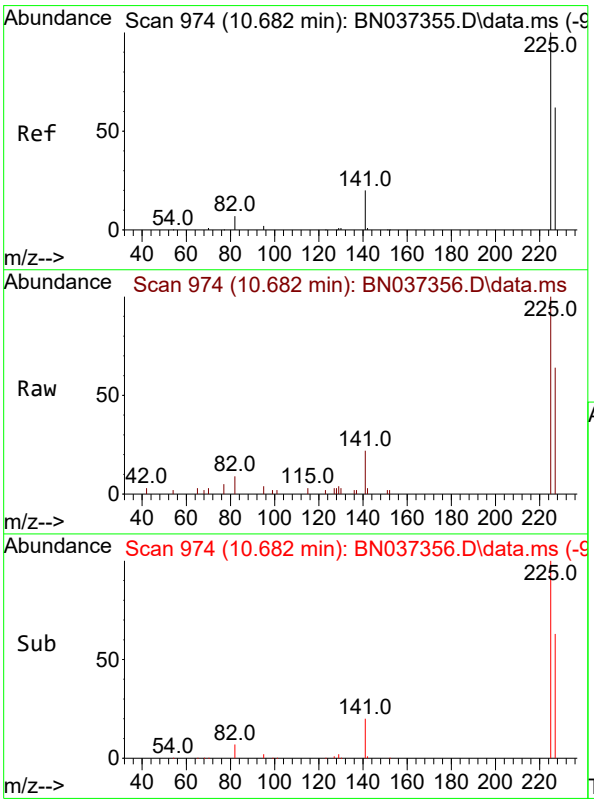
#9
Naphthalene
Concen: 0.783 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 8659

Ion	Ratio	Lower	Upper
128	100		
129	11.7	14.0	21.0#
127	14.3	15.8	23.8#

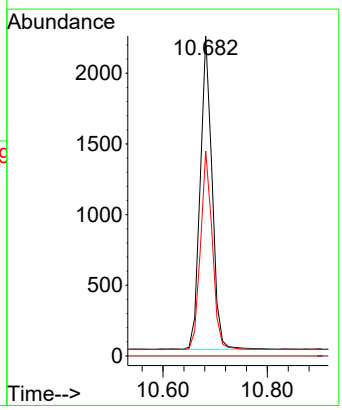


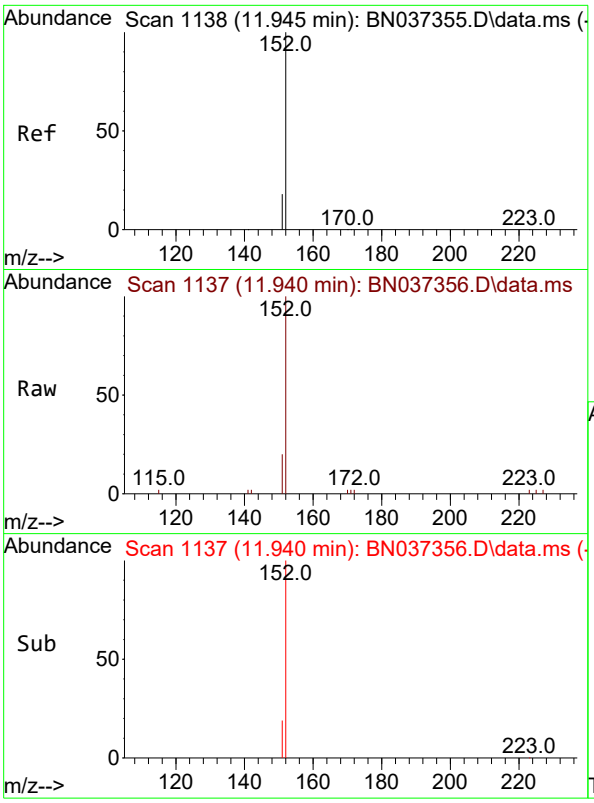


#10
Hexachlorobutadiene
Concen: 0.642 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:225 Resp: 3472

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.3	75.5



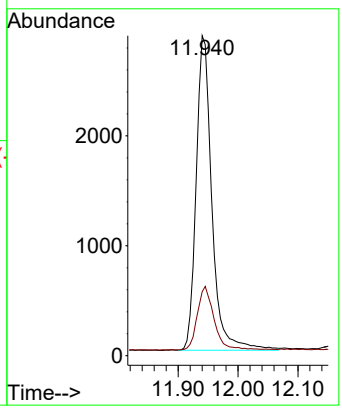


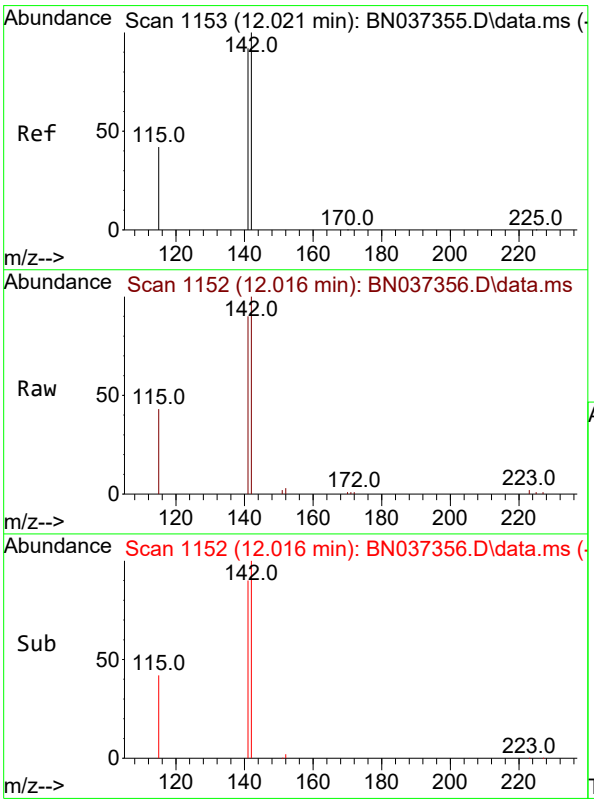
#11
2-Methylnaphthalene-d10
Concen: 0.754 ng
RT: 11.940 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 5209

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.4	26.0

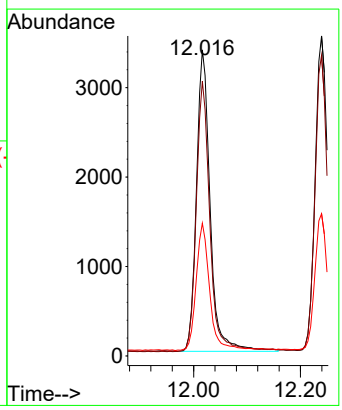


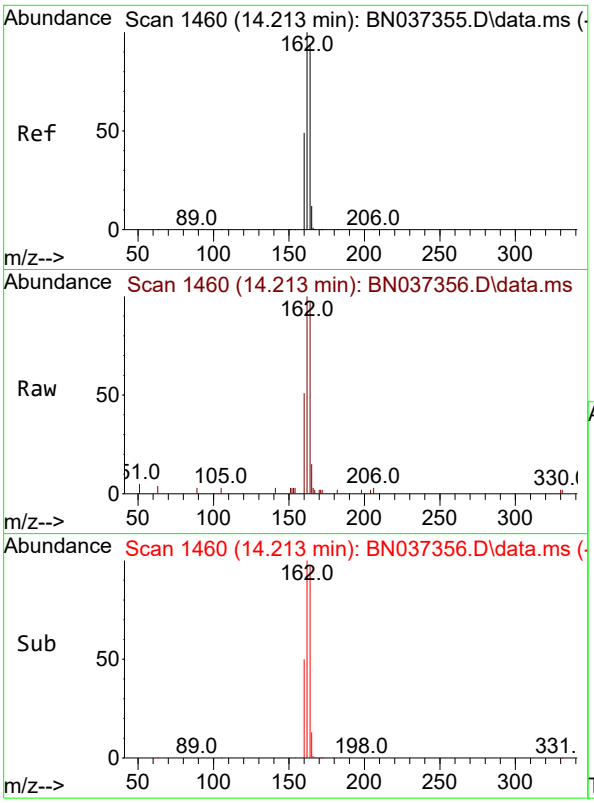


#12
2-Methylnaphthalene
Concen: 0.772 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:142 Resp: 6007

Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.2	105.2
115	43.4	43.0	64.4



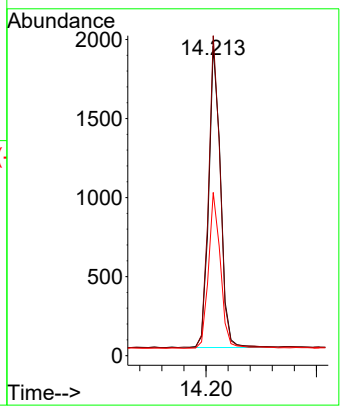


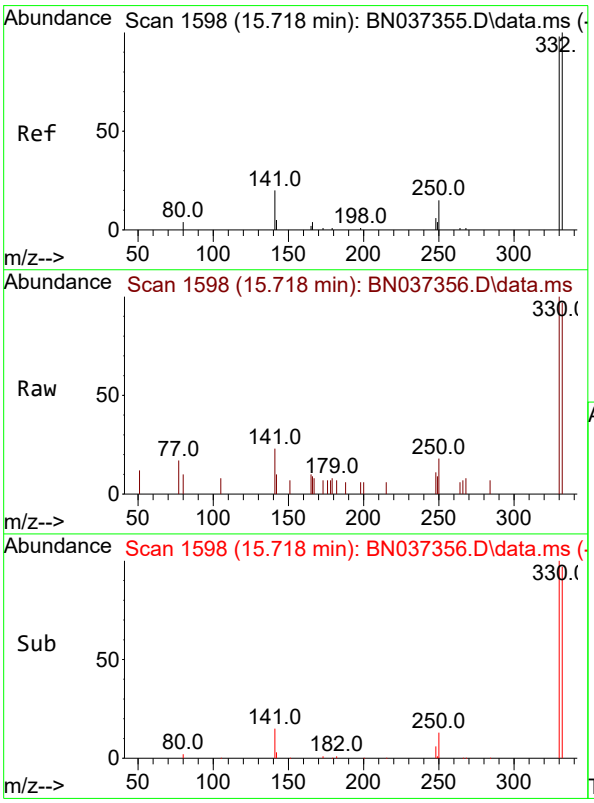
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 2836

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.5	122.3
160	52.7	43.0	64.4

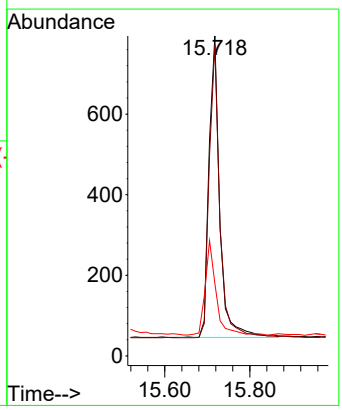


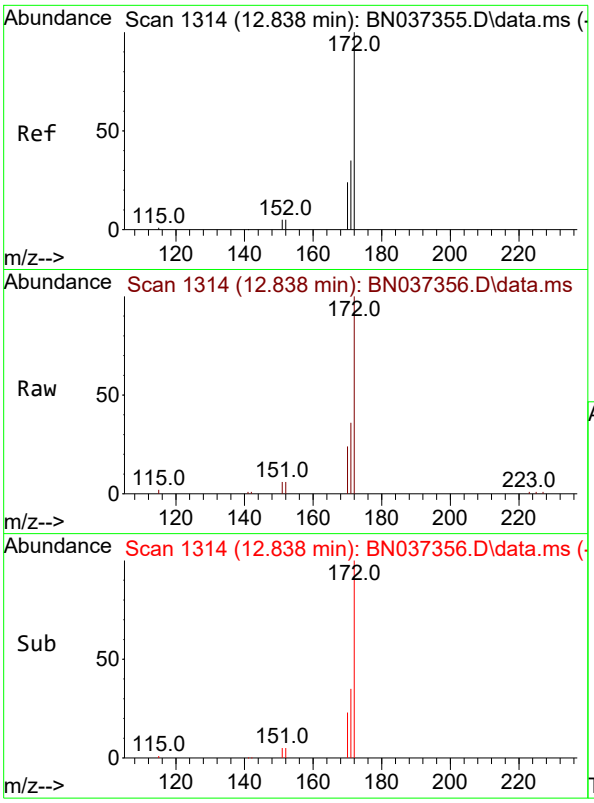


#14
2,4,6-Tribromophenol
Concen: 0.646 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:330 Resp: 1310

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.4	117.6
141	32.2	24.4	36.6



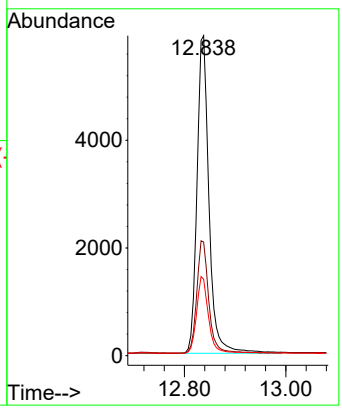


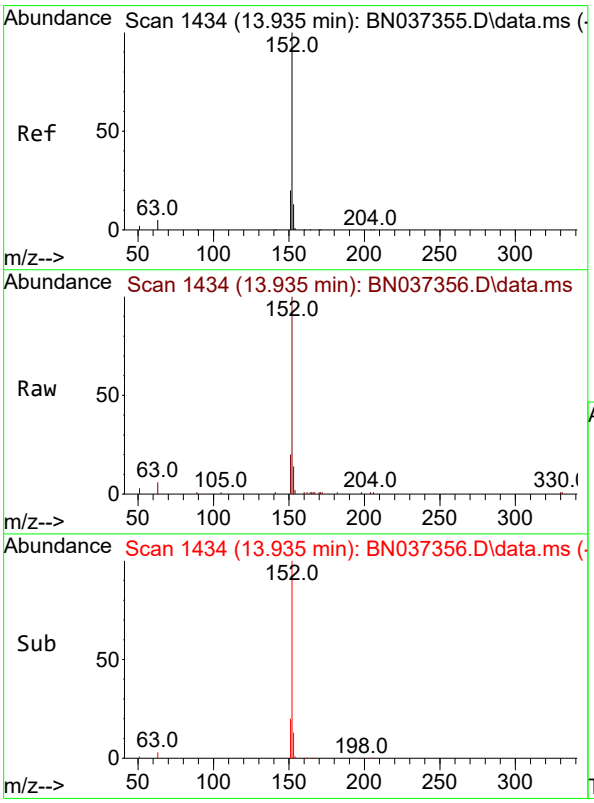
#15
2-Fluorobiphenyl
Concen: 0.781 ng
RT: 12.838 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 9720

Ion	Ratio	Lower	Upper
172	100		
171	35.5	30.8	46.2
170	23.9	21.9	32.9

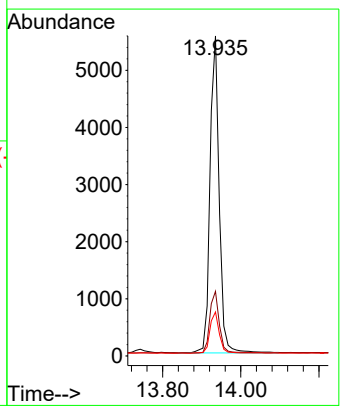


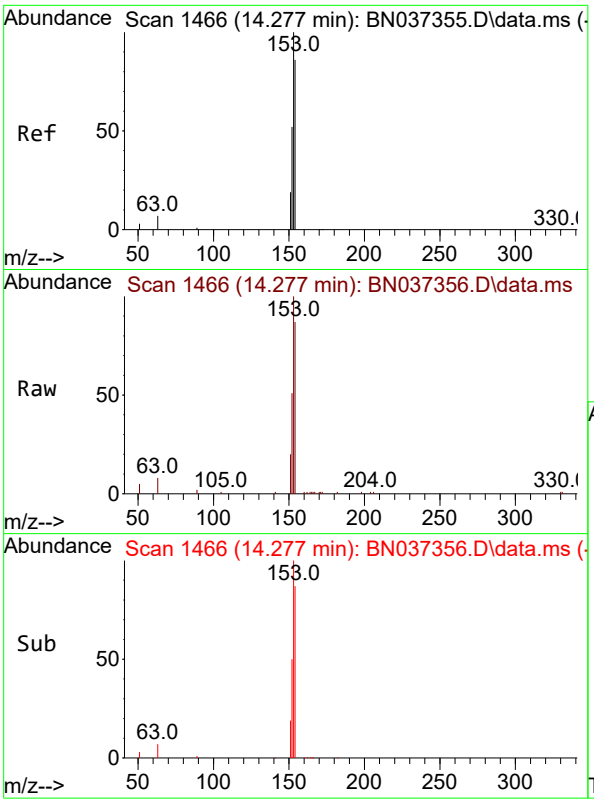


#16
Acenaphthylene
Concen: 0.760 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:152 Resp: 9047

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.6	24.8
153	13.4	10.2	15.2



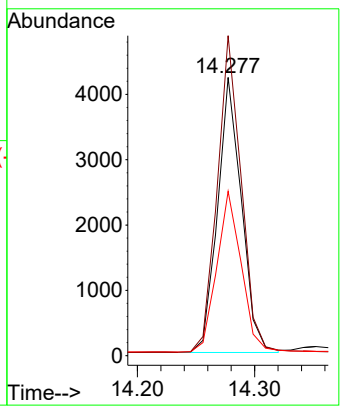


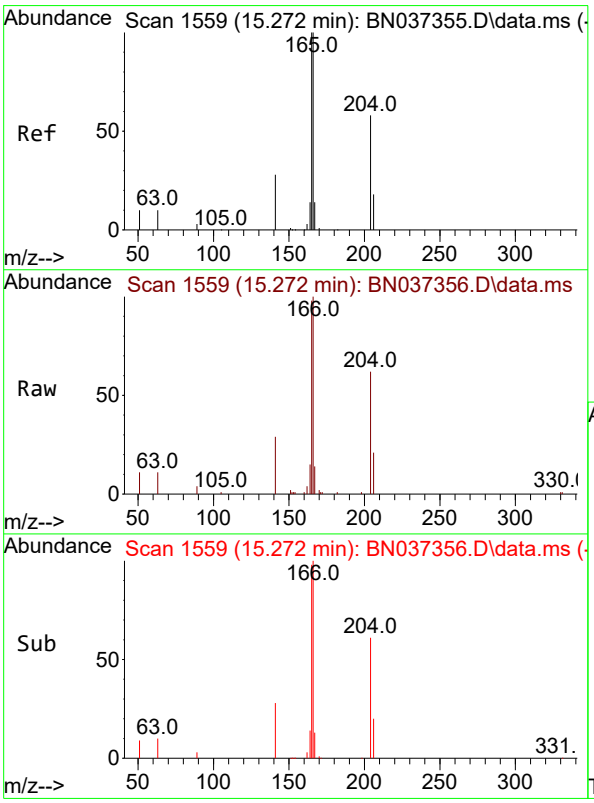
#17
Acenaphthene
Concen: 0.755 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 5960

Ion	Ratio	Lower	Upper
154	100		
153	116.3	93.1	139.7
152	60.6	48.6	73.0

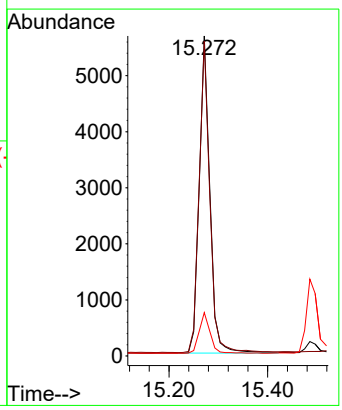


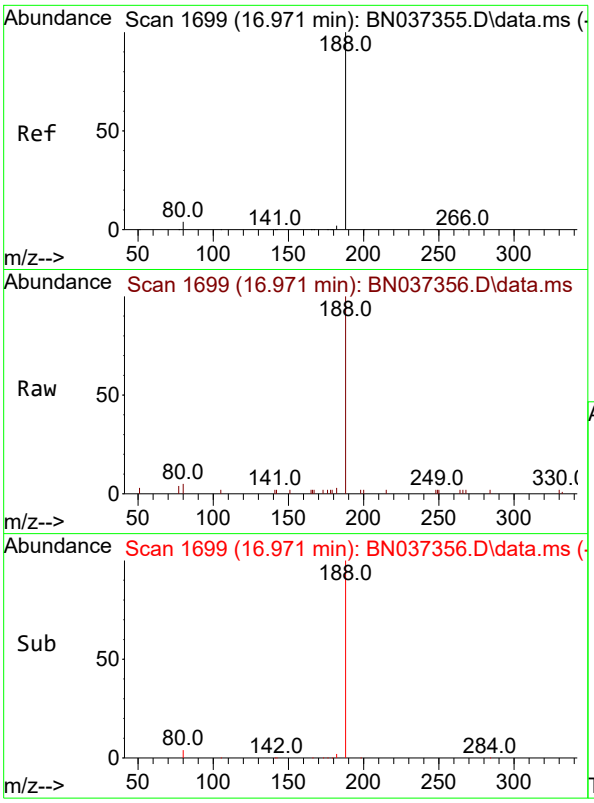


#18
Fluorene
Concen: 0.756 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:166 Resp: 8453

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.5	119.3
167	13.3	10.7	16.1



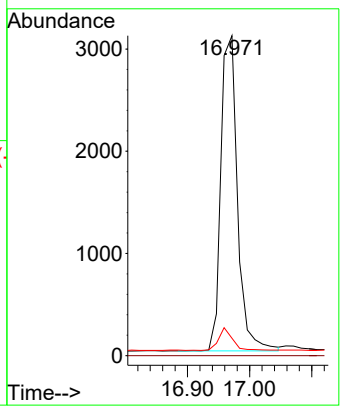


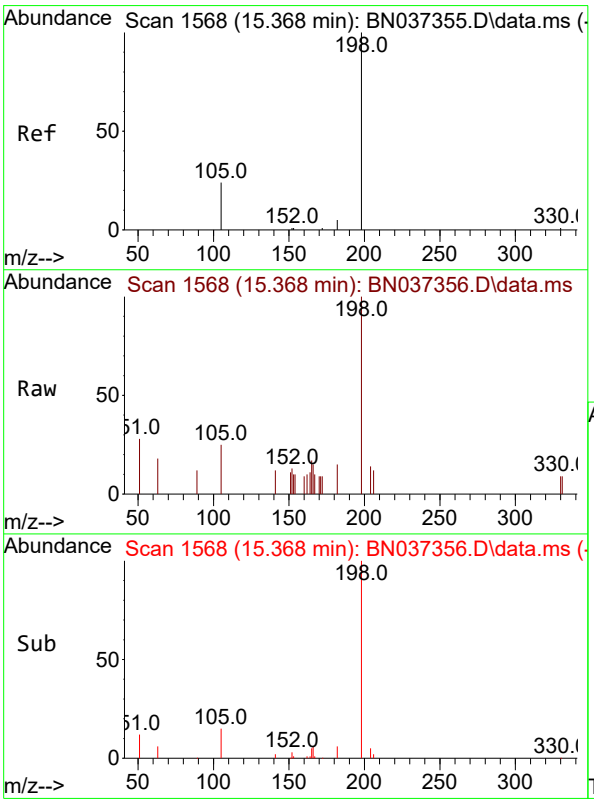
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 5716

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.5	6.2	9.2#

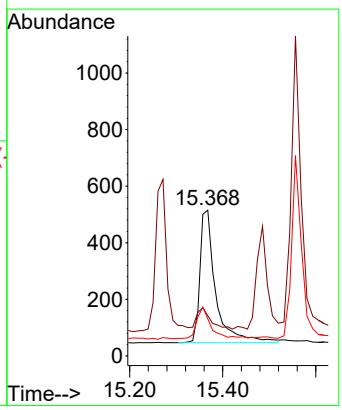


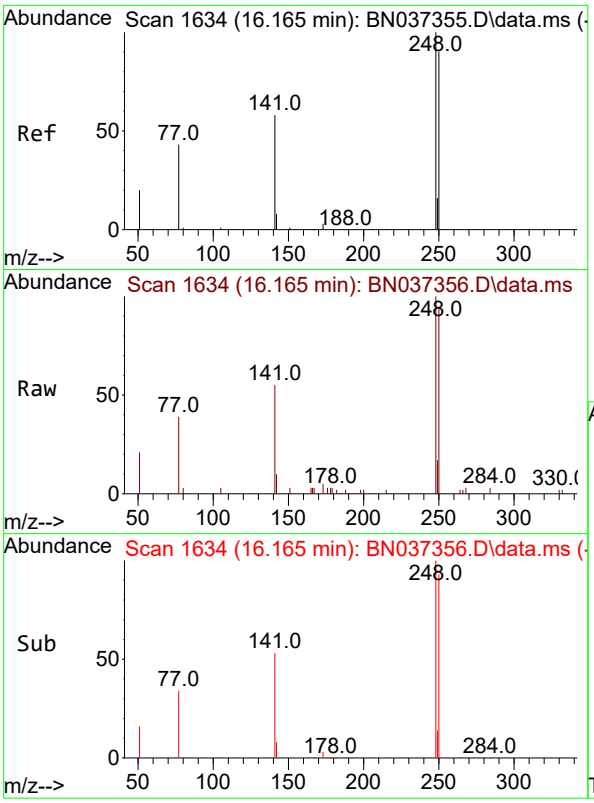


#20
4,6-Dinitro-2-methylphenol
Concen: 0.641 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:198 Resp: 1108

Ion	Ratio	Lower	Upper
198	100		
51	27.6	51.4	77.0#
105	25.4	45.5	68.3#



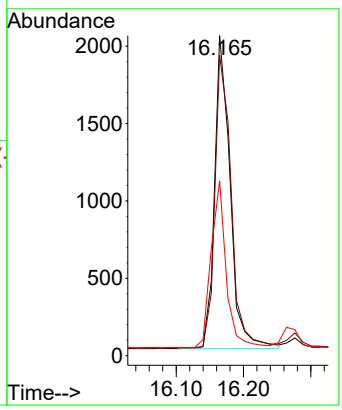


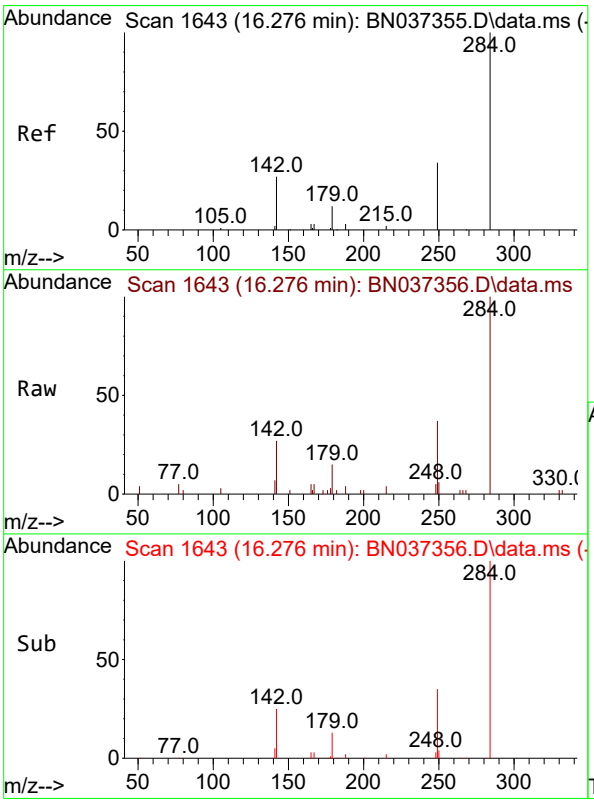
#21
4-Bromophenyl-phenylether
Concen: 0.697 ng
RT: 16.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 3252

Ion	Ratio	Lower	Upper
248	100		
250	93.9	80.4	120.6
141	54.6	33.3	49.9#

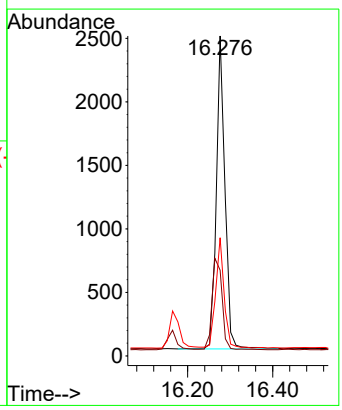


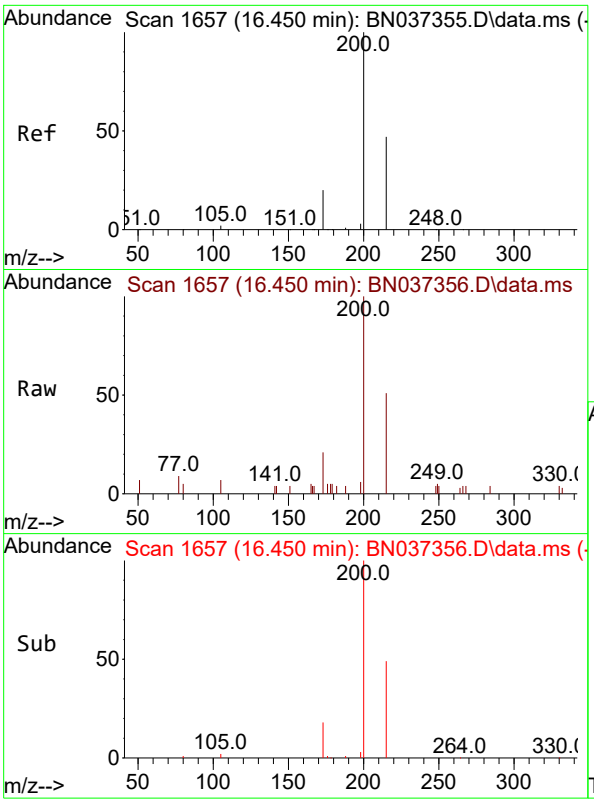


#22
Hexachlorobenzene
Concen: 0.713 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:284 Resp: 3471

Ion	Ratio	Lower	Upper
284	100		
142	33.9	27.0	40.6
249	34.1	28.8	43.2



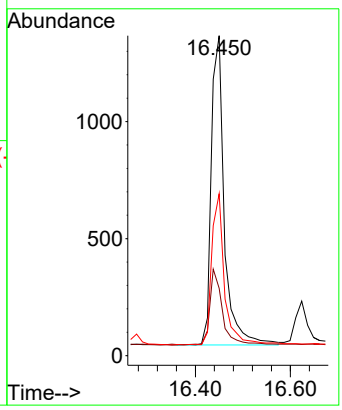


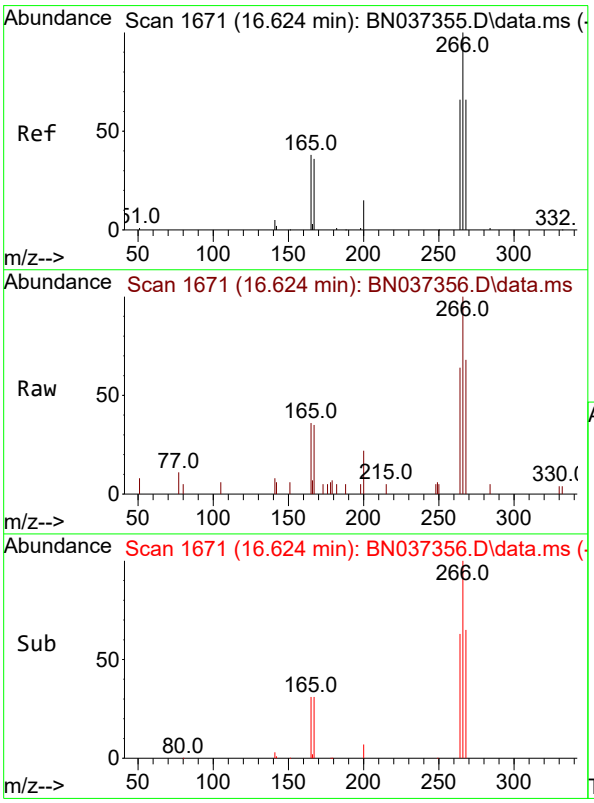
#23
Atrazine
Concen: 0.689 ng
RT: 16.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2516

Ion	Ratio	Lower	Upper
200	100		
173	21.1	29.2	43.8#
215	50.6	48.8	73.2

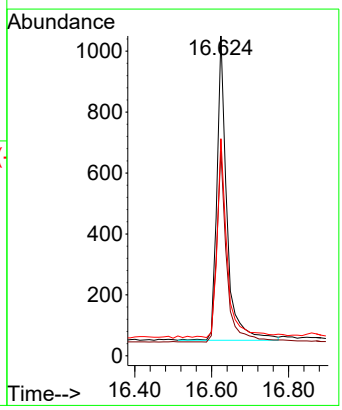


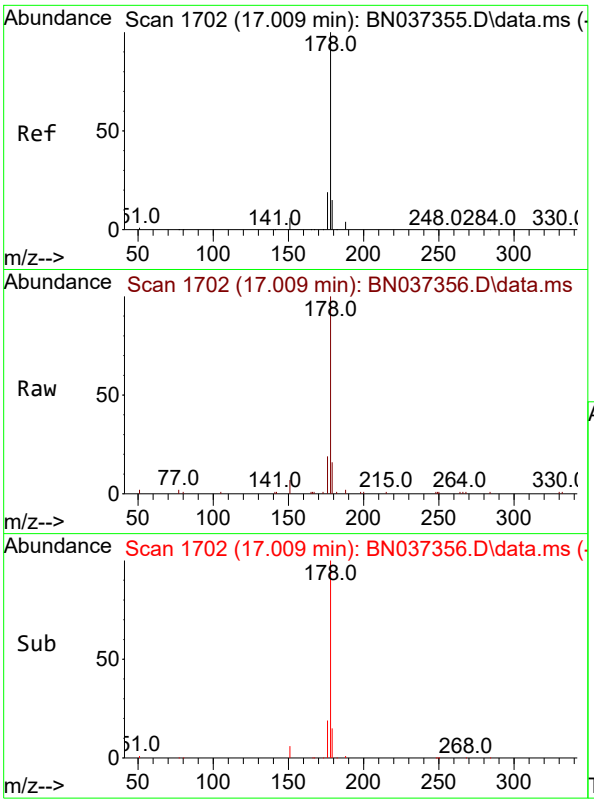


#24
Pentachlorophenol
Concen: 0.673 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:266 Resp: 1797

Ion	Ratio	Lower	Upper
266	100		
264	61.8	50.3	75.5
268	63.2	55.3	82.9



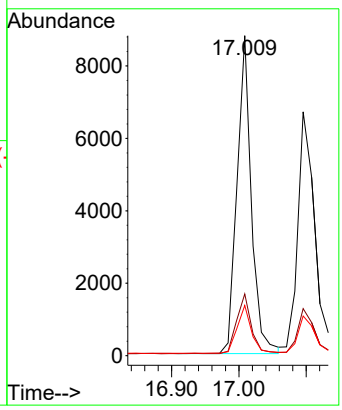


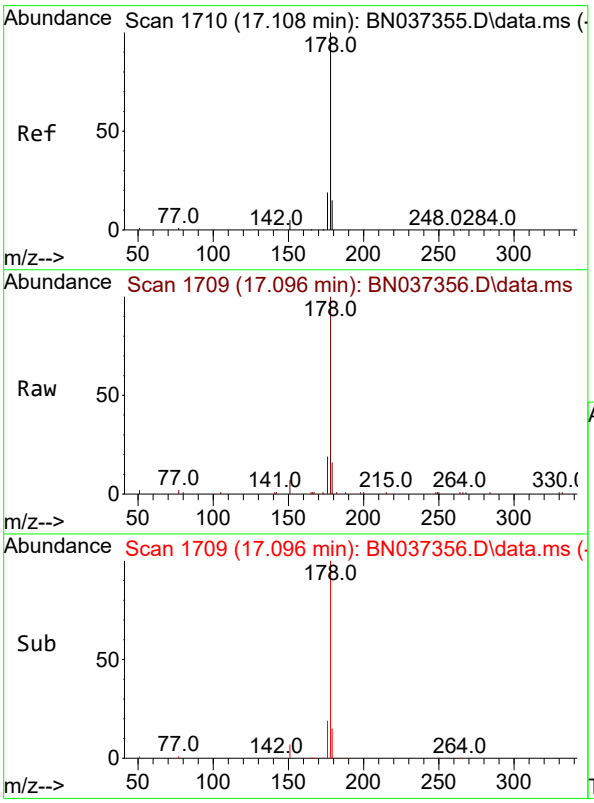
#25
Phenanthrene
Concen: 0.806 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 13016

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.2	12.9	19.3

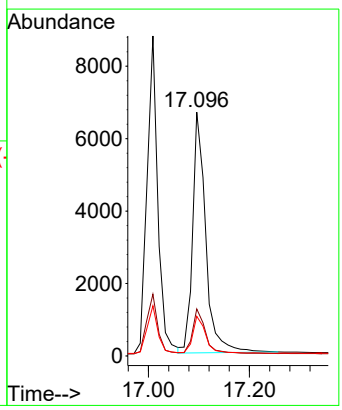


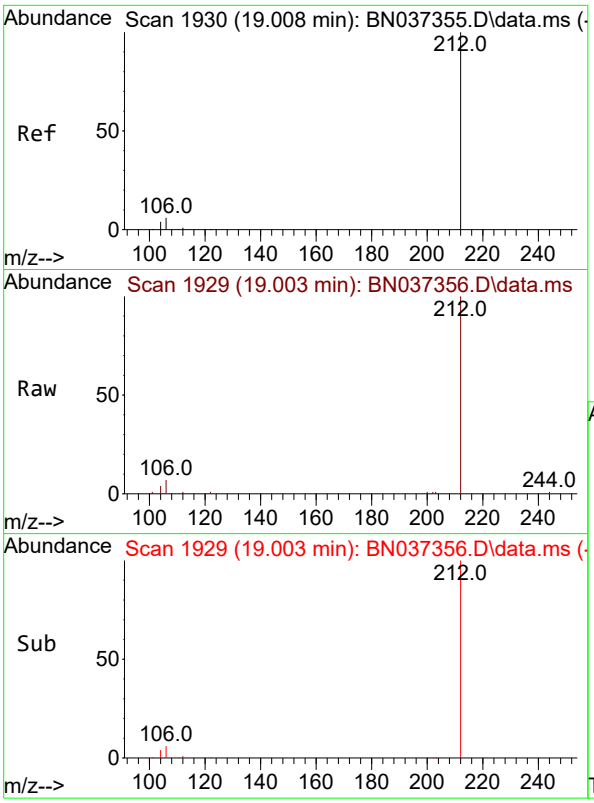


#26
Anthracene
Concen: 0.799 ng
RT: 17.096 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:178 Resp: 12050

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.6	13.0	19.6



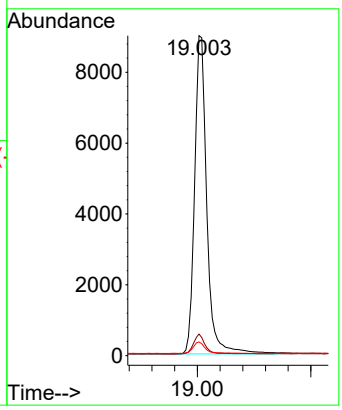


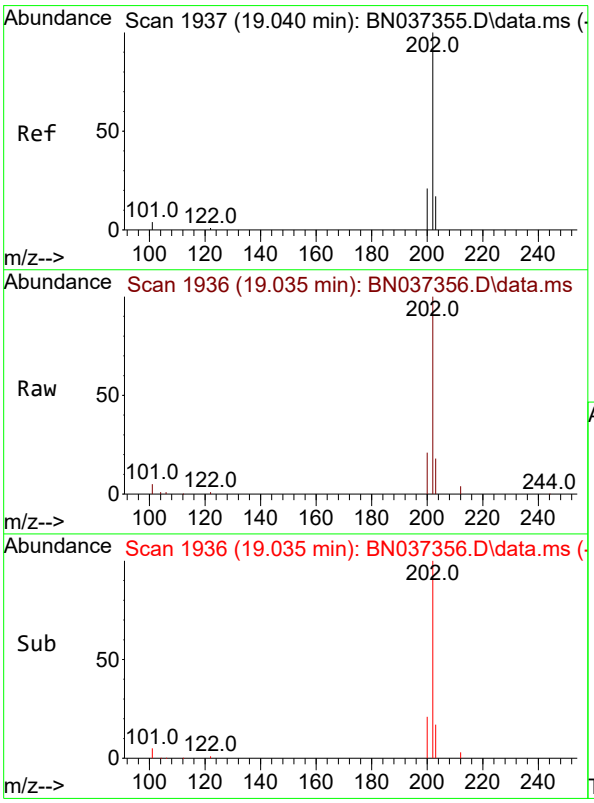
#27
Fluoranthene-d10
Concen: 0.749 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 13334

Ion	Ratio	Lower	Upper
212	100		
106	5.9	3.0	4.4#
104	3.6	2.0	3.0#

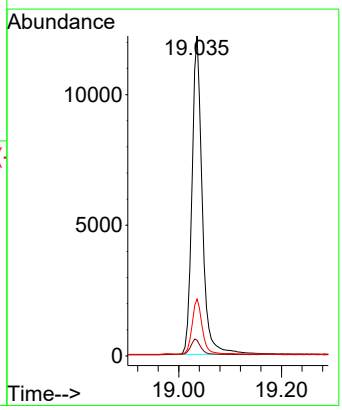


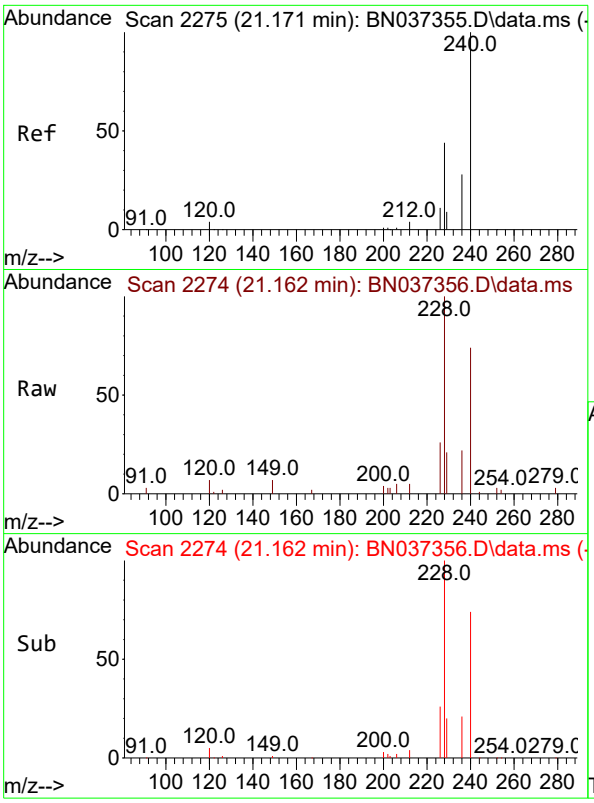


#28
Fluoranthene
Concen: 0.772 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:202 Resp: 17056

Ion	Ratio	Lower	Upper
202	100		
101	5.1	3.0	4.6#
203	16.9	13.7	20.5



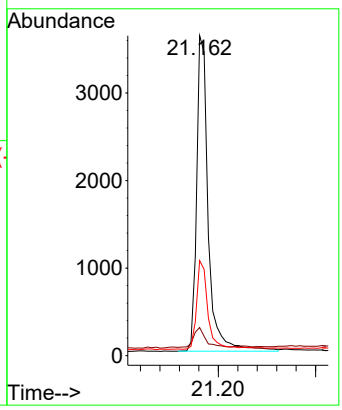


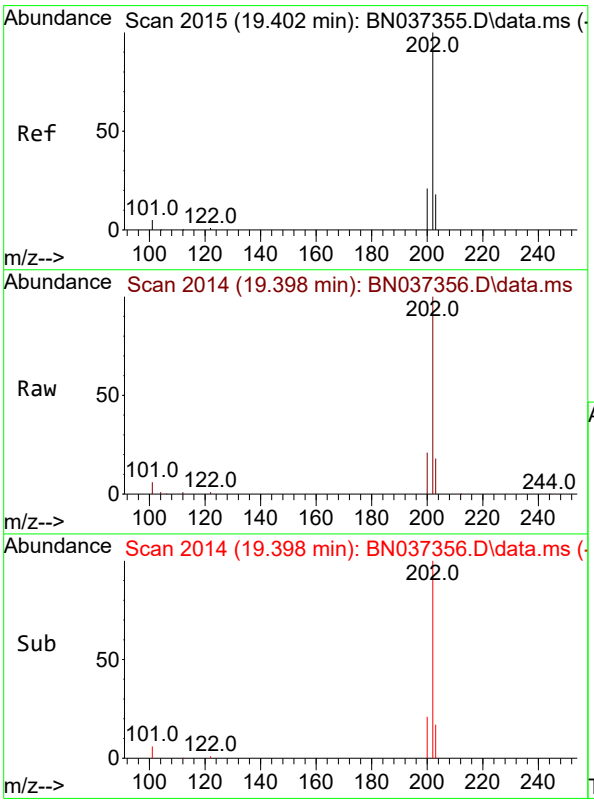
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 5944

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.5	11.3
236	29.7	24.9	37.3

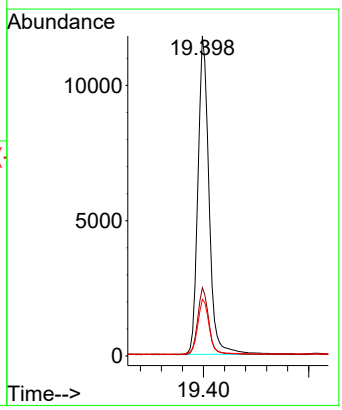


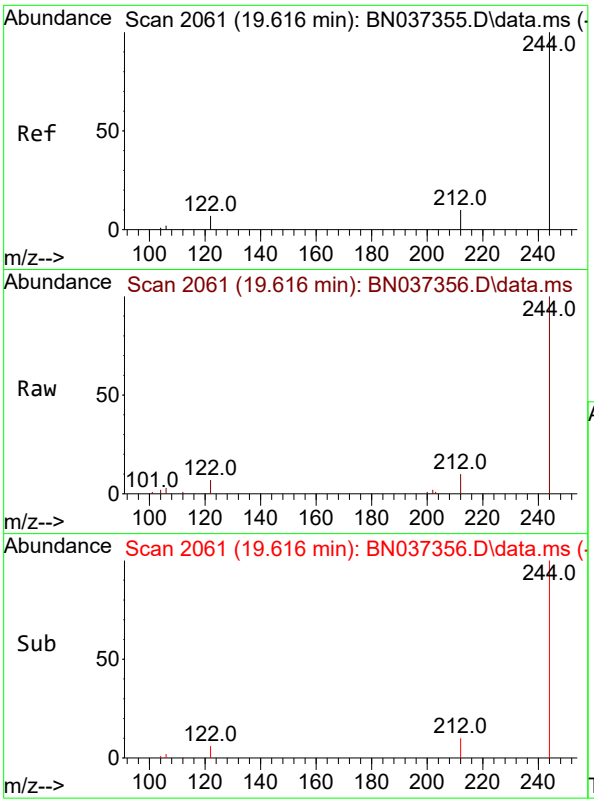


#30
Pyrene
Concen: 0.754 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:202 Resp: 17163

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.8	14.5	21.7



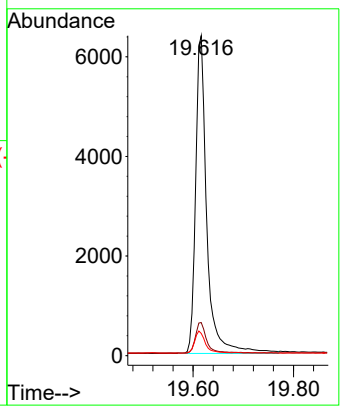


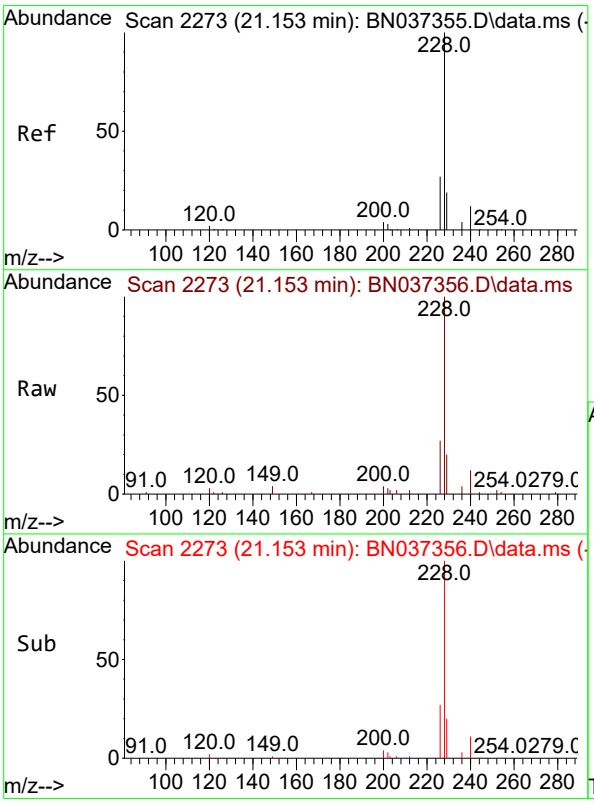
#31
Terphenyl-d14
Concen: 0.726 ng
RT: 19.616 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 9859

Ion	Ratio	Lower	Upper
244	100		
212	10.4	11.1	16.7#
122	6.9	7.2	10.8#

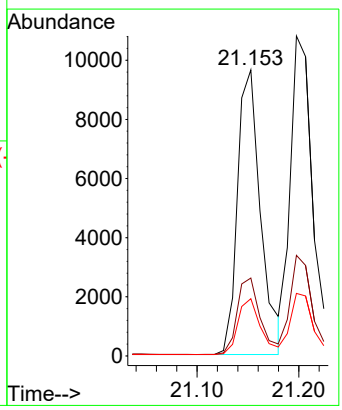


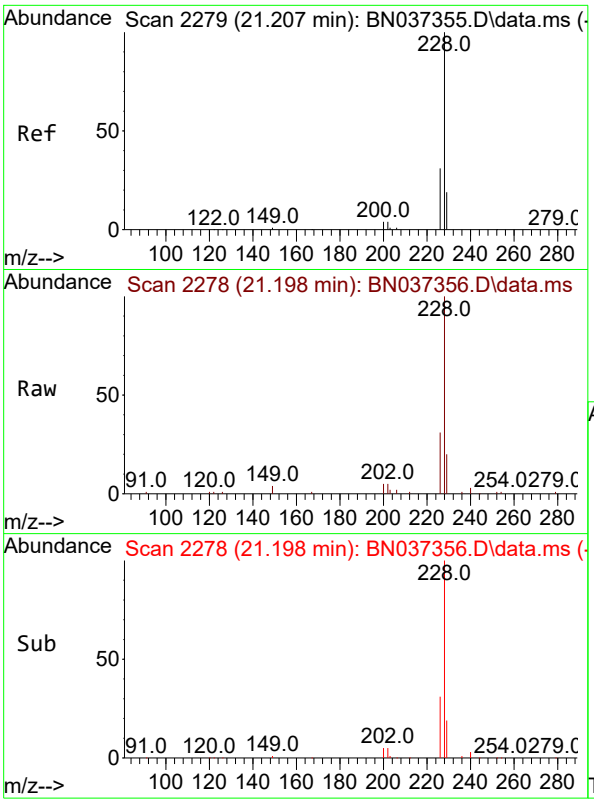


#32
Benzo(a)anthracene
Concen: 0.792 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:228 Resp: 15193

Ion	Ratio	Lower	Upper
228	100		
226	27.3	23.0	34.4
229	20.0	17.4	26.0



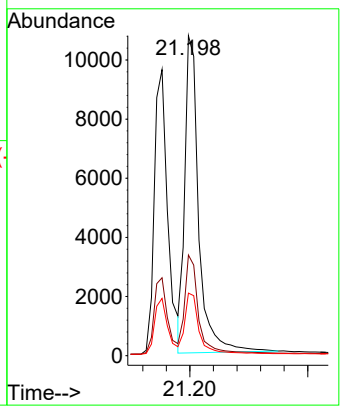


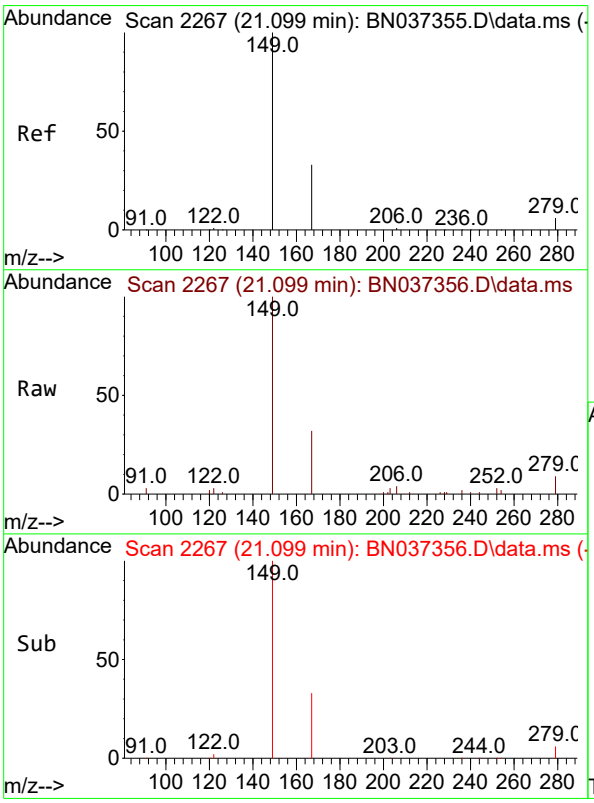
#33
Chrysene
Concen: 0.724 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 17610

Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.4	38.2
229	19.5	17.3	25.9

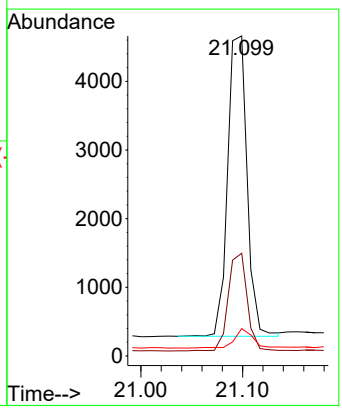


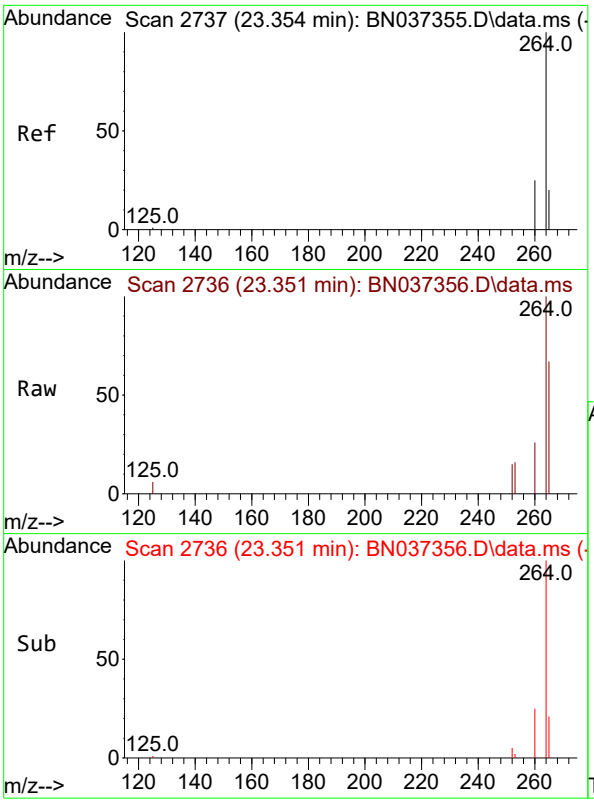


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.736 ng
RT: 21.099 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:149 Resp: 5787

Ion	Ratio	Lower	Upper
149	100		
167	31.8	24.6	37.0
279	6.2	6.5	9.7#



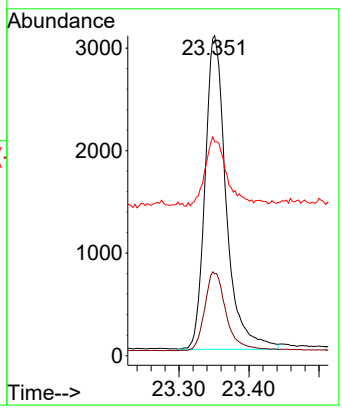


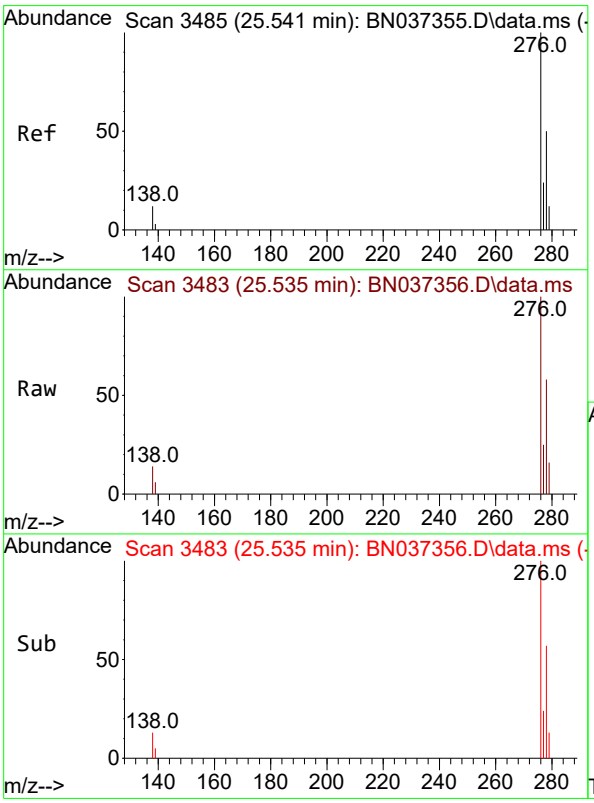
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 6423

Ion	Ratio	Lower	Upper
264	100		
260	25.7	21.4	32.2
265	66.8	71.4	107.0#

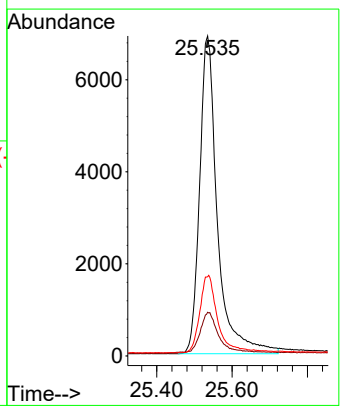


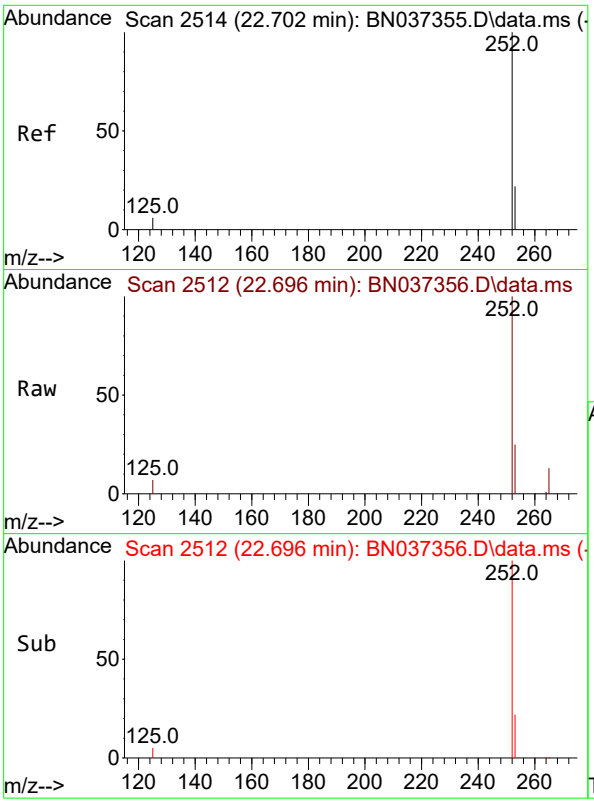


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.831 ng
RT: 25.535 min Scan# 3483
Delta R.T. -0.006 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:276 Resp: 22625

Ion	Ratio	Lower	Upper
276	100		
138	12.3	2.2	3.2#
277	24.3	17.1	25.7



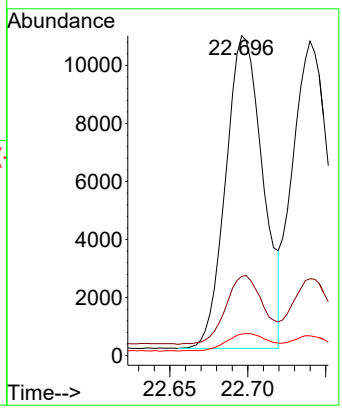


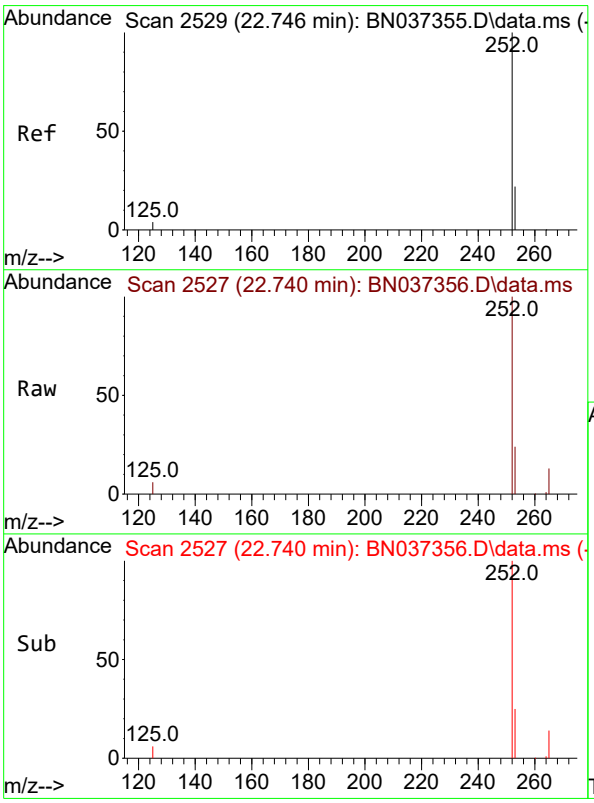
#37
Benzo(b)fluoranthene
Concen: 0.785 ng
RT: 22.696 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 17878

Ion	Ratio	Lower	Upper
252	100		
253	24.8	26.6	40.0#
125	6.7	6.1	9.1

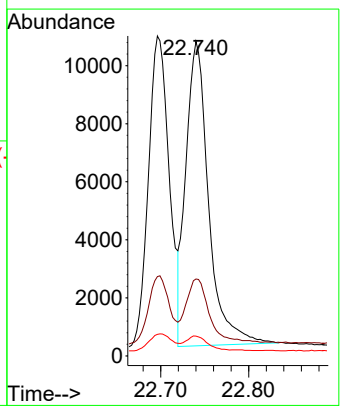


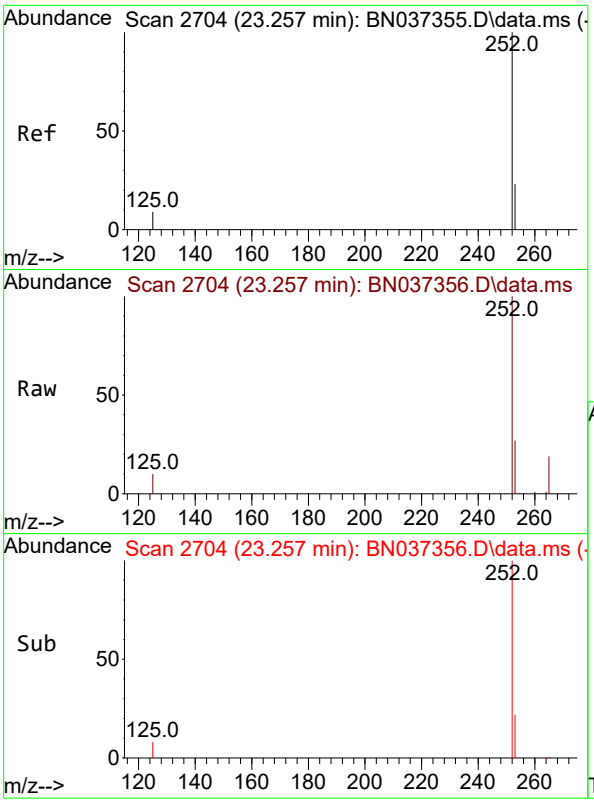


#38
Benzo(k)fluoranthene
Concen: 0.761 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:252 Resp: 18833

Ion	Ratio	Lower	Upper
252	100		
253	24.4	26.7	40.1#
125	6.3	6.5	9.7#



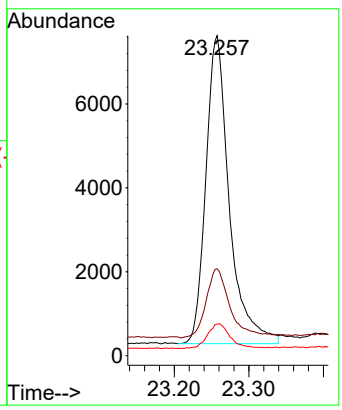


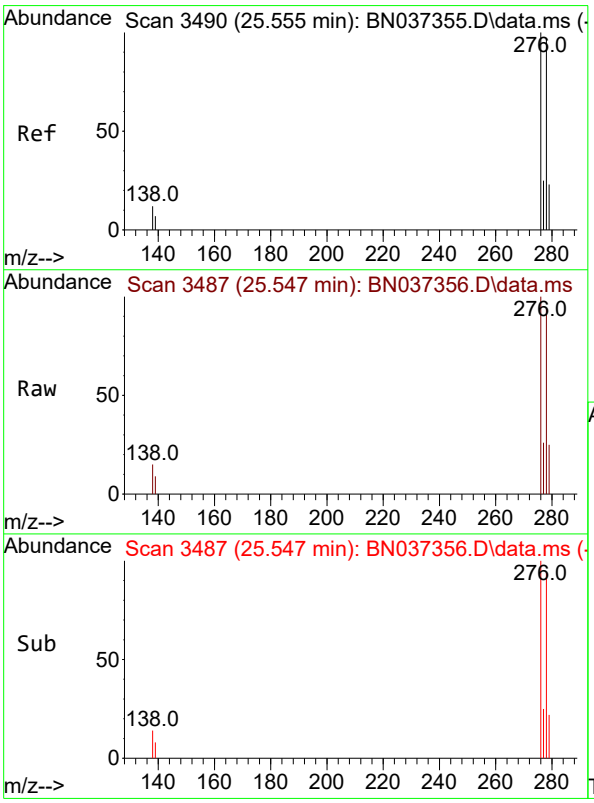
#39
Benzo(a)pyrene
Concen: 0.769 ng
RT: 23.257 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 16022

Ion	Ratio	Lower	Upper
252	100		
253	27.1	31.6	47.4#
125	9.9	8.4	12.6

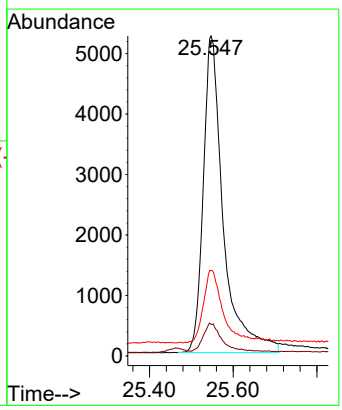


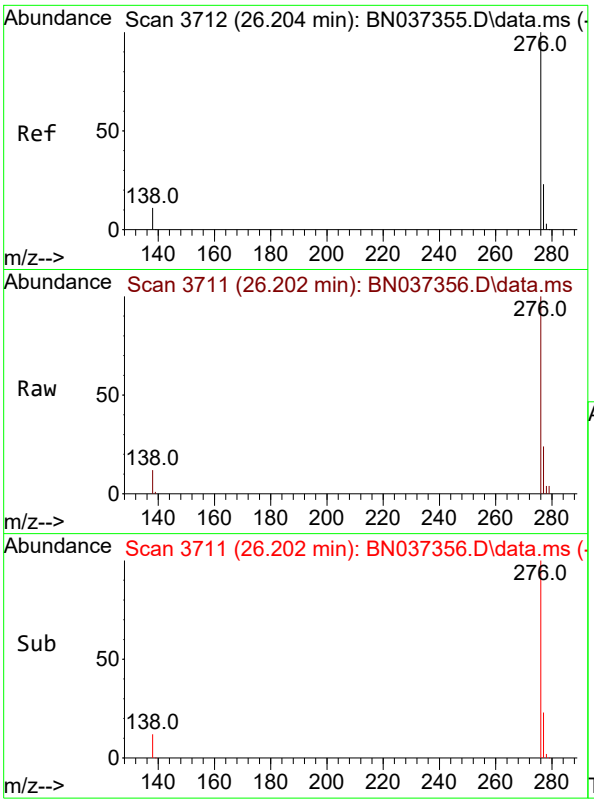


#40
Dibenzo(a,h)anthracene
Concen: 0.803 ng
RT: 25.547 min Scan# 3487
Delta R.T. -0.009 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:278 Resp: 17405

Ion	Ratio	Lower	Upper
278	100		
139	9.9	10.2	15.4#
279	26.7	35.6	53.4#



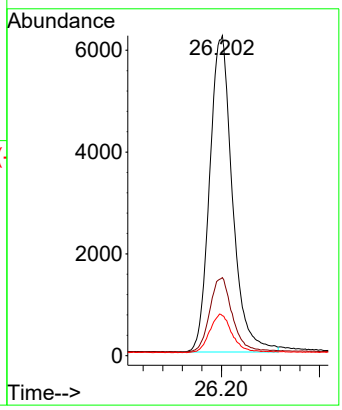


#41
Benzo(g,h,i)perylene
Concen: 0.801 ng
RT: 26.202 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 20041

Ion	Ratio	Lower	Upper
276	100		
277	24.4	22.7	34.1
138	12.5	9.4	14.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037357.D
Acq On : 20 Jun 2025 19:15
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 20 23:27:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	2270	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4835	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	3136	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	6455	0.400	ng		-0.01
29) Chrysene-d12	21.162	240	6604	0.400	ng		0.00
35) Perylene-d12	23.351	264	7013	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	7577	1.826	ng		0.00
5) Phenol-d6	6.744	99	8087	1.969	ng		0.00
8) Nitrobenzene-d5	8.717	82	7020	1.749	ng		0.00
11) 2-Methylnaphthalene-d10	11.940	152	12882	1.647	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	3170	1.413	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	23802	1.730	ng		0.00
27) Fluoranthene-d10	19.003	212	31876	1.586	ng		0.00
31) Terphenyl-d14	19.612	244	24025	1.593	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	3788	1.889	ng		92
3) n-Nitrosodimethylamine	3.415	42	3553	1.522	ng	#	73
6) bis(2-Chloroethyl)ether	6.997	93	7504	2.088	ng		96
9) Naphthalene	10.394	128	21372	1.705	ng	#	86
10) Hexachlorobutadiene	10.682	225	8200	1.339	ng	#	99
12) 2-Methylnaphthalene	12.016	142	15021	1.704	ng	#	92
16) Acenaphthylene	13.935	152	22546	1.713	ng		98
17) Acenaphthene	14.277	154	14727	1.688	ng		99
18) Fluorene	15.272	166	20827	1.684	ng		100
20) 4,6-Dinitro-2-methylph...	15.357	198	2836	1.453	ng	#	49
21) 4-Bromophenyl-phenylether	16.165	248	7869	1.493	ng	#	91
22) Hexachlorobenzene	16.276	284	8354	1.519	ng		97
23) Atrazine	16.438	200	6166	1.495	ng	#	83
24) Pentachlorophenol	16.624	266	4361	1.445	ng		96
25) Phenanthrene	17.009	178	32059	1.758	ng		99
26) Anthracene	17.096	178	29693	1.743	ng		99
28) Fluoranthene	19.035	202	41430	1.660	ng	#	99
30) Pyrene	19.398	202	41513	1.642	ng		100
32) Benzo(a)anthracene	21.153	228	37793	1.773	ng		97
33) Chrysene	21.207	228	41889	1.550	ng		96
34) Bis(2-ethylhexyl)phtha...	21.099	149	13738	1.573	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.535	276	55371	1.863	ng	#	91
37) Benzo(b)fluoranthene	22.699	252	43215	1.738	ng	#	85
38) Benzo(k)fluoranthene	22.740	252	46879	1.736	ng	#	85
39) Benzo(a)pyrene	23.255	252	39242	1.724	ng	#	78
40) Dibenzo(a,h)anthracene	25.547	278	43786	1.849	ng	#	74
41) Benzo(g,h,i)perylene	26.199	276	48259	1.767	ng		94

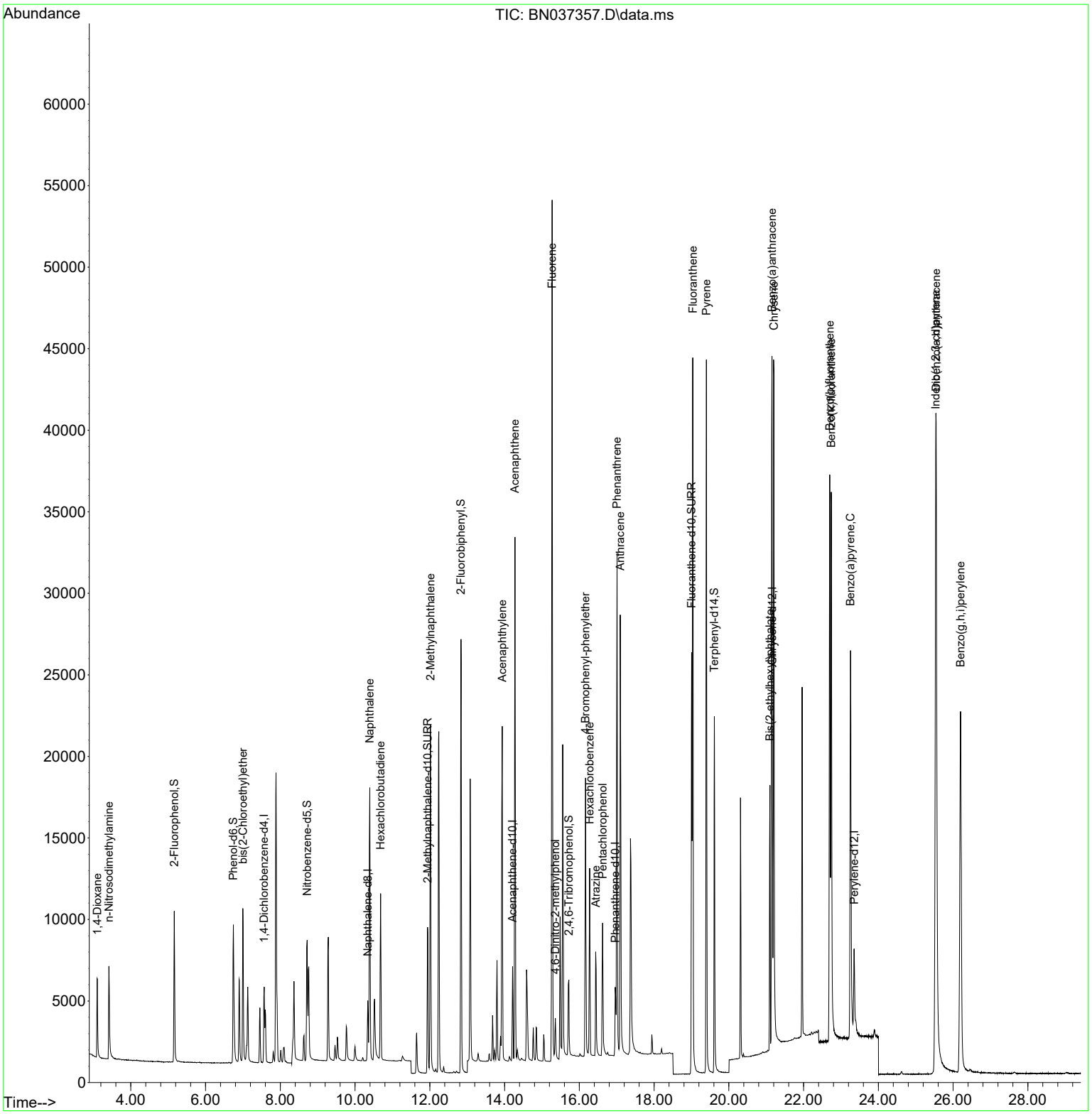
(#) = qualifier out of range (m) = manual integration (+) = signals summed

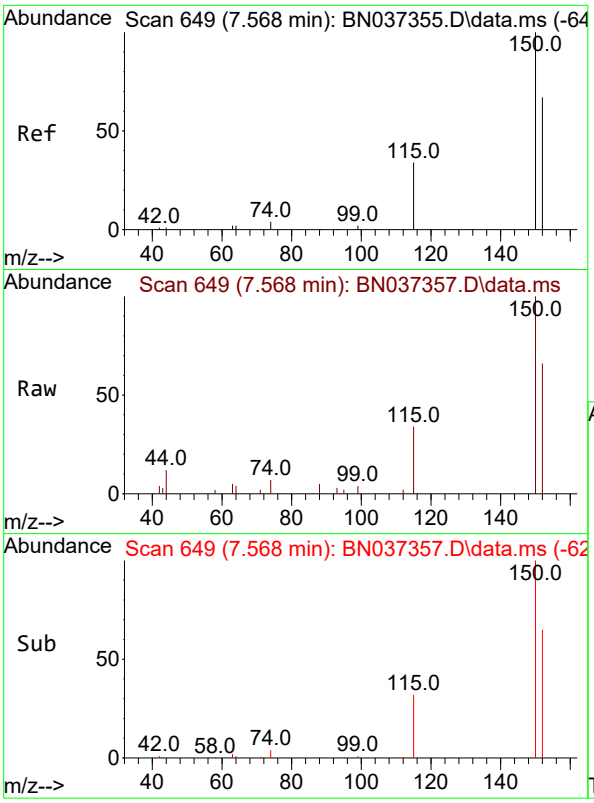
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037357.D
Acq On : 20 Jun 2025 19:15
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 20 23:27:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



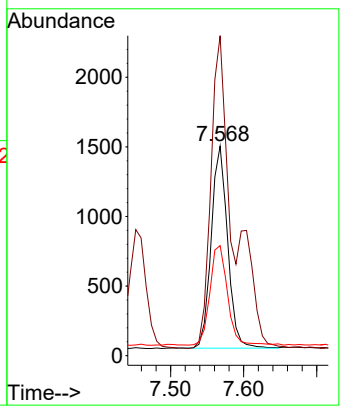


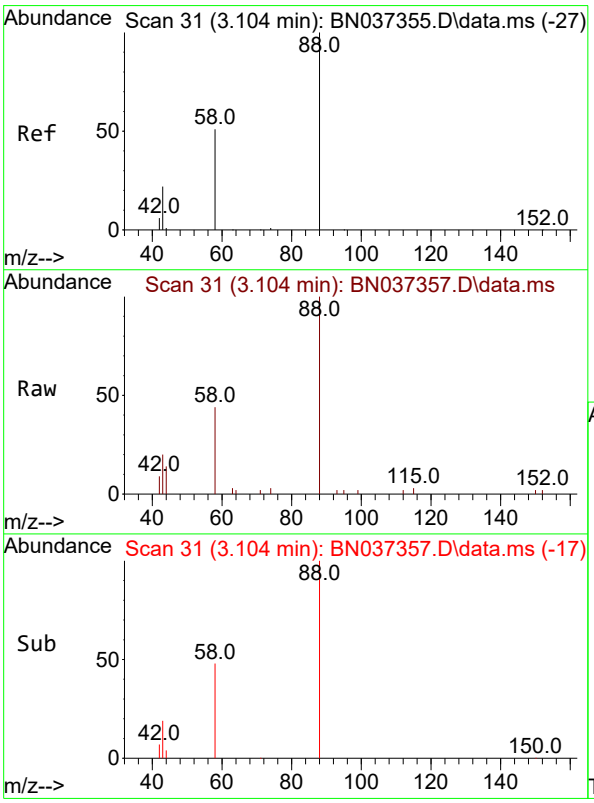
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2270

Ion	Ratio	Lower	Upper
152	100		
150	152.7	112.7	169.1
115	52.5	45.9	68.9

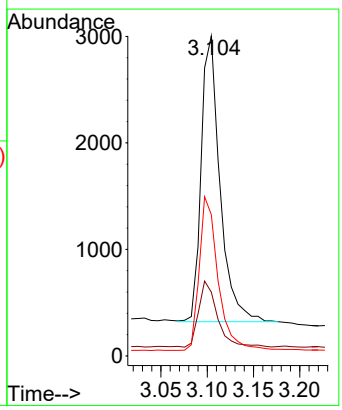


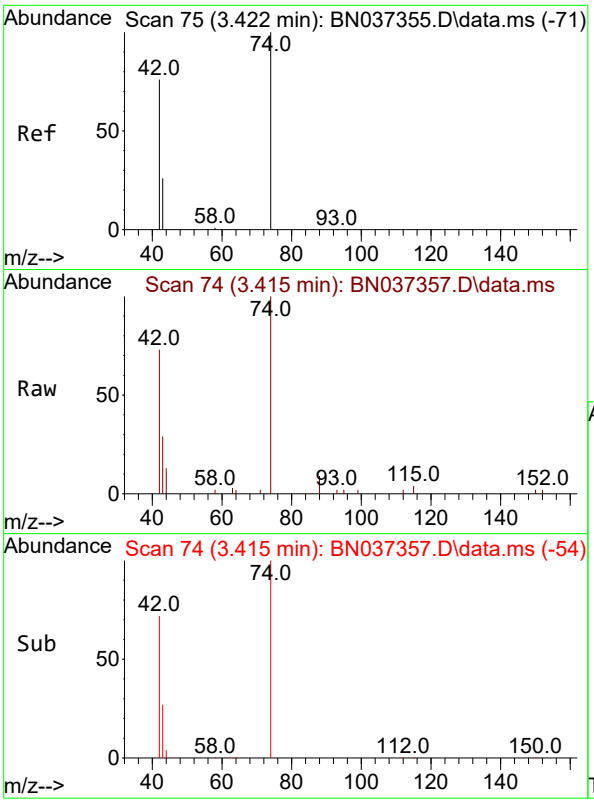


#2
1,4-Dioxane
Concen: 1.889 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 88 Resp: 3788

Ion	Ratio	Lower	Upper
88	100		
43	22.8	21.0	31.6
58	53.7	38.0	57.0



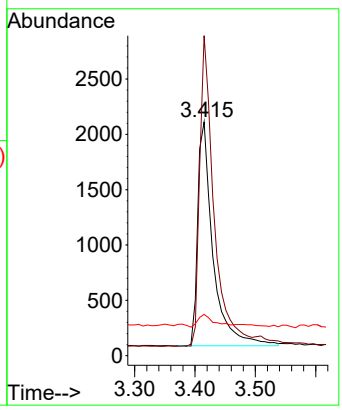


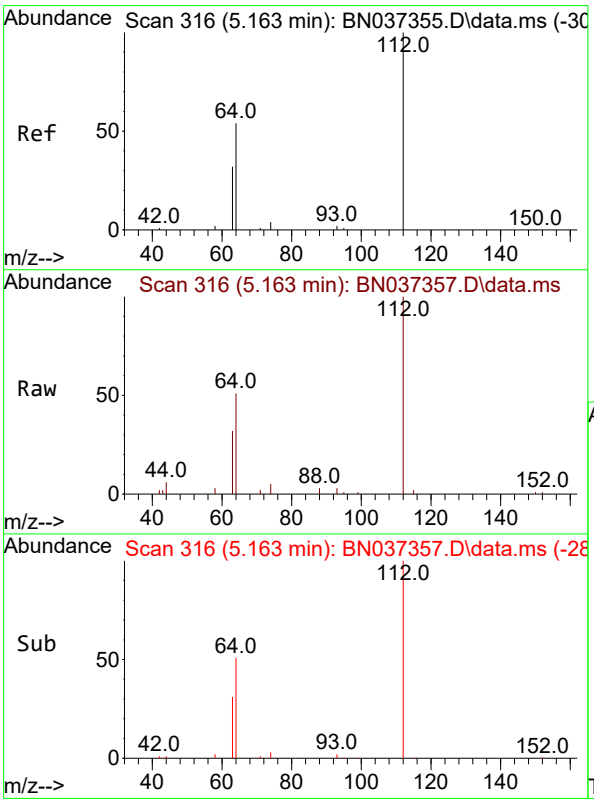
#3
n-Nitrosodimethylamine
Concen: 1.522 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 3553

Ion	Ratio	Lower	Upper
42	100		
74	134.8	84.3	126.5#
44	6.3	5.0	7.4

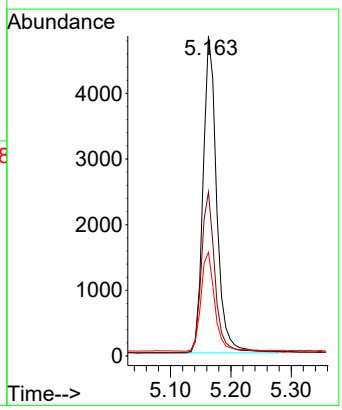


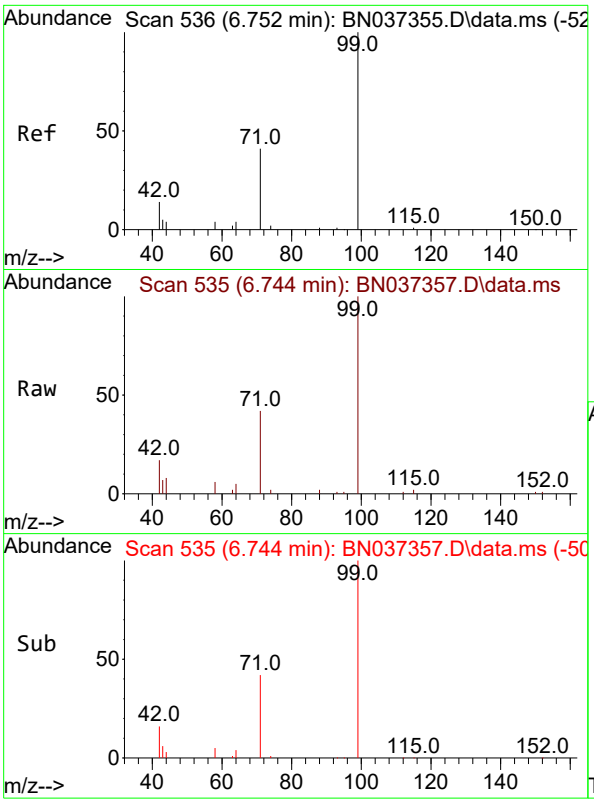


#4
2-Fluorophenol
Concen: 1.826 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:112 Resp: 7577

Ion	Ratio	Lower	Upper
112	100		
64	50.7	38.7	58.1
63	31.5	26.4	39.6



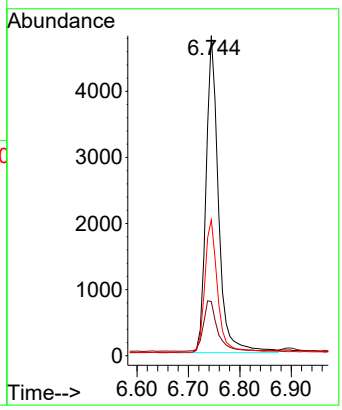


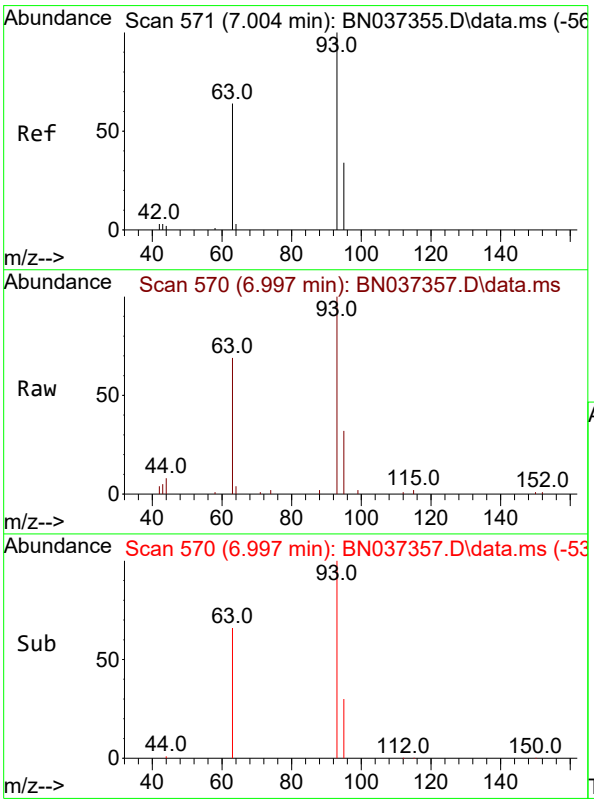
#5
Phenol-d6
Concen: 1.969 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 8087

Ion	Ratio	Lower	Upper
99	100		
42	18.1	19.8	29.8#
71	44.2	42.6	64.0

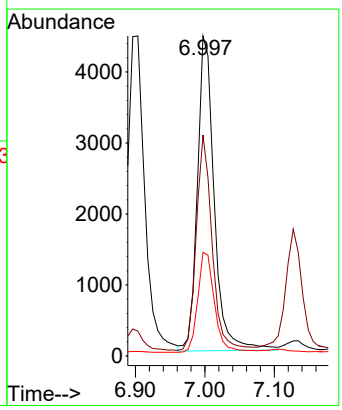


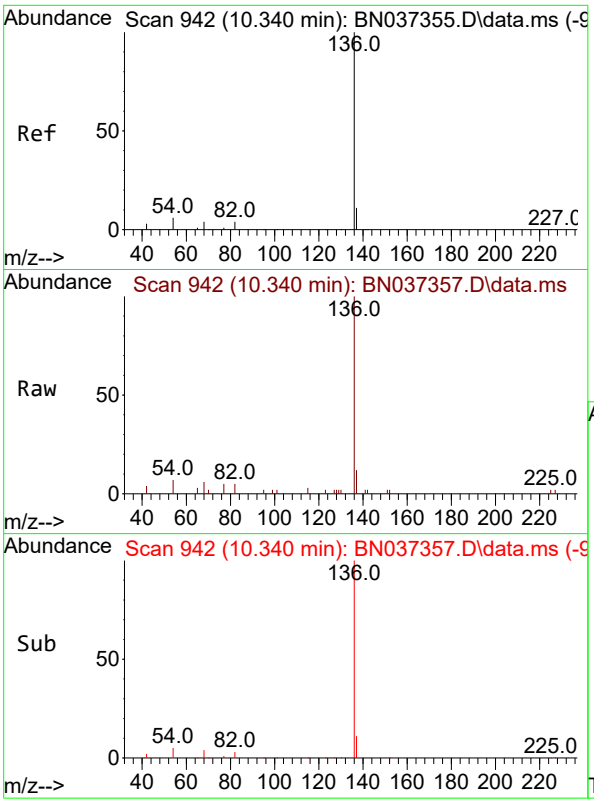


#6
bis(2-Chloroethyl)ether
Concen: 2.088 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 93 Resp: 7504

Ion	Ratio	Lower	Upper
93	100		
63	64.1	53.2	79.8
95	31.5	27.3	40.9



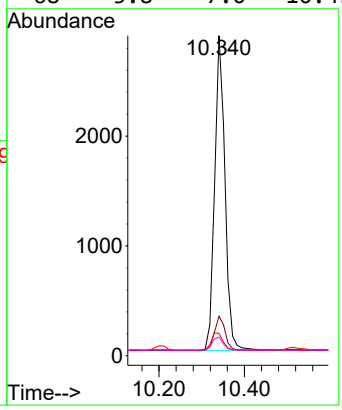


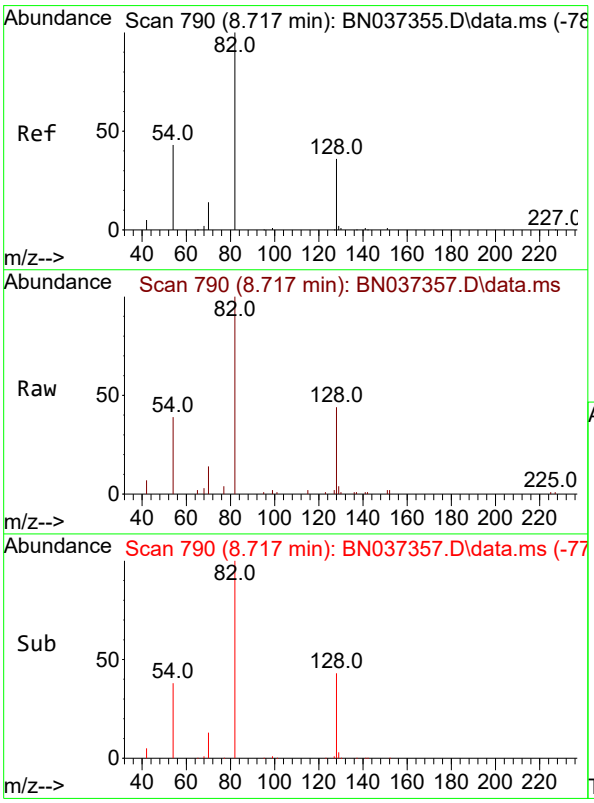
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 4835

Ion	Ratio	Lower	Upper
136	100		
137	12.3	12.2	18.2
54	7.0	8.8	13.2#
68	5.8	7.0	10.4#

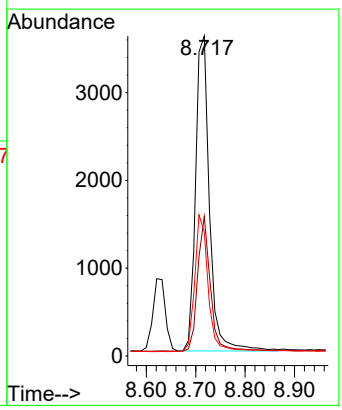


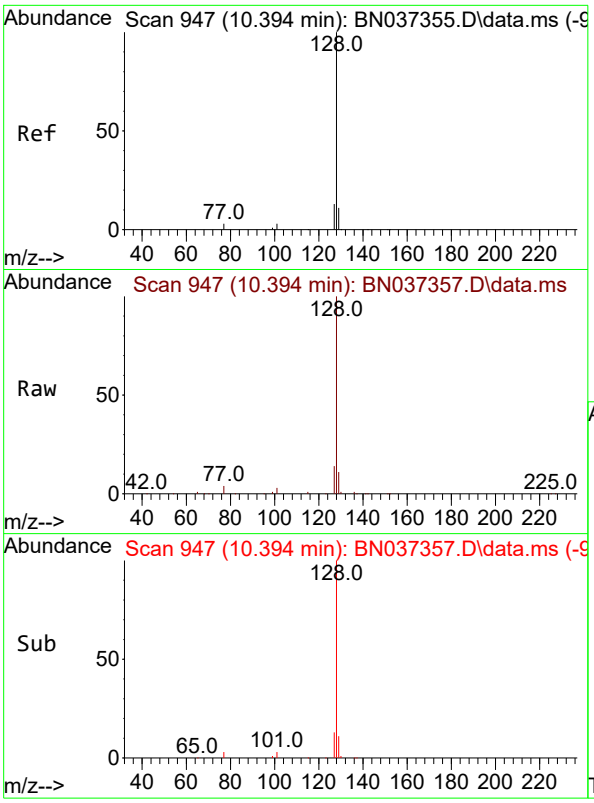


#8
Nitrobenzene-d5
Concen: 1.749 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 82 Resp: 7020

Ion	Ratio	Lower	Upper
82	100		
128	43.6	42.5	63.7
54	38.7	43.2	64.8#



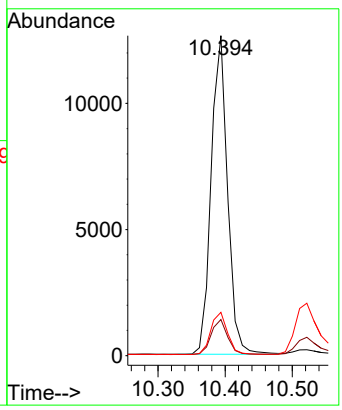


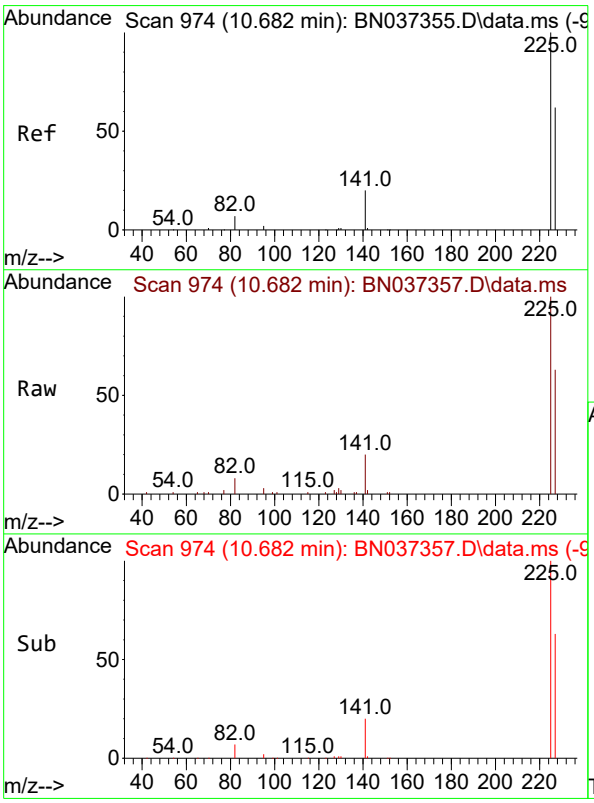
#9
Naphthalene
Concen: 1.705 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 21372

Ion	Ratio	Lower	Upper
128	100		
129	11.3	14.0	21.0#
127	13.6	15.8	23.8#

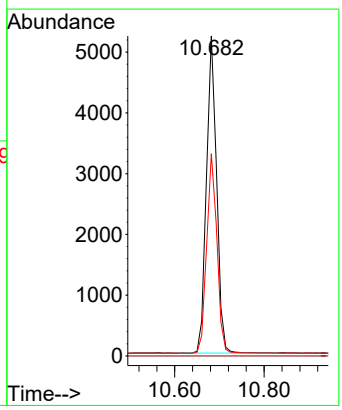


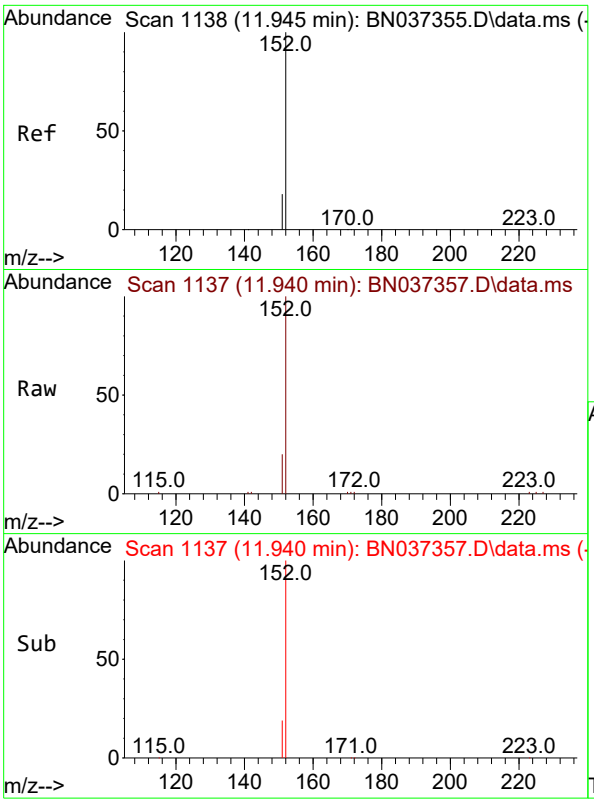


#10
Hexachlorobutadiene
Concen: 1.339 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:225 Resp: 8200

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.3	75.5



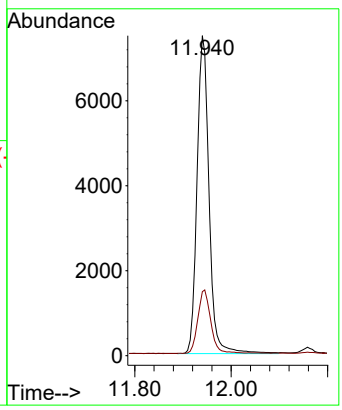


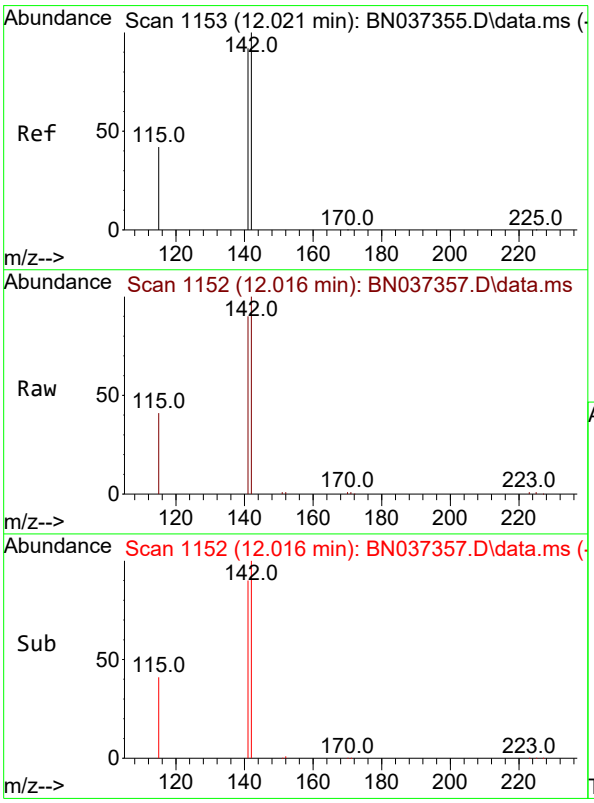
#11
2-Methylnaphthalene-d10
Concen: 1.647 ng
RT: 11.940 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 12882

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.4	26.0

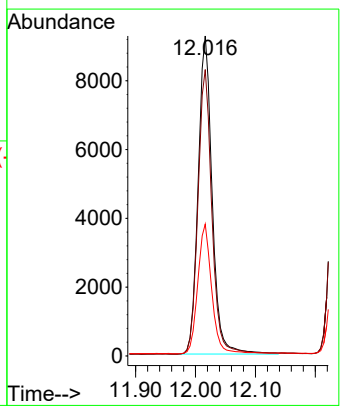


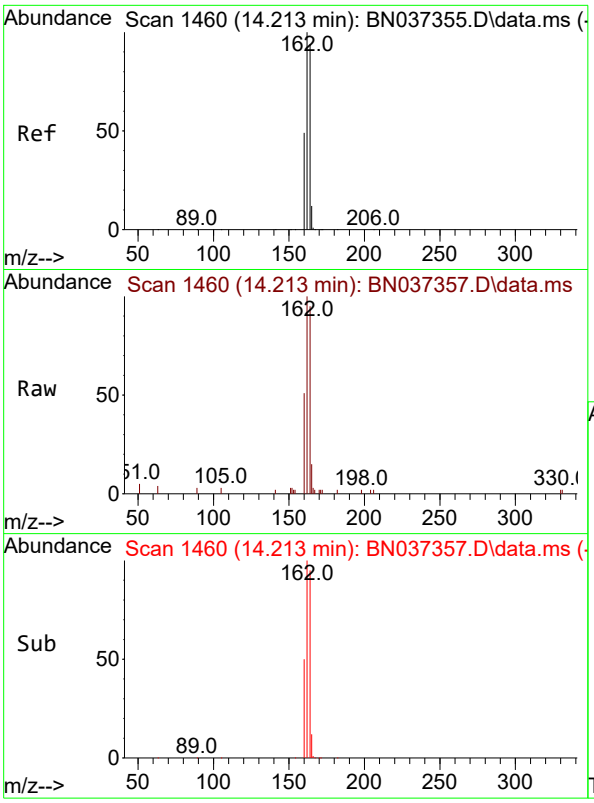


#12
2-Methylnaphthalene
Concen: 1.704 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:142 Resp: 15021

Ion	Ratio	Lower	Upper
142	100		
141	89.5	70.2	105.2
115	41.2	43.0	64.4#



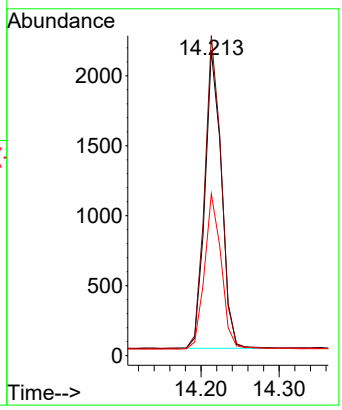


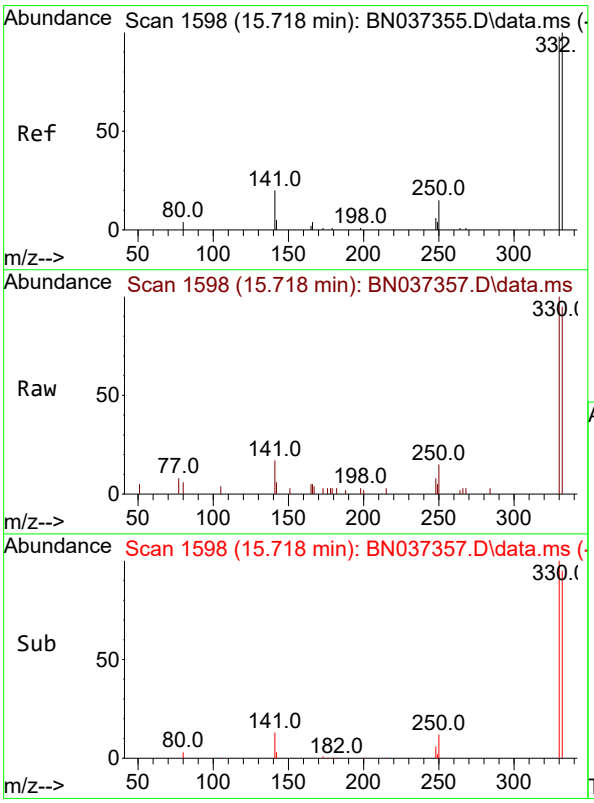
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3136

Ion	Ratio	Lower	Upper
164	100		
162	105.0	81.5	122.3
160	53.1	43.0	64.4

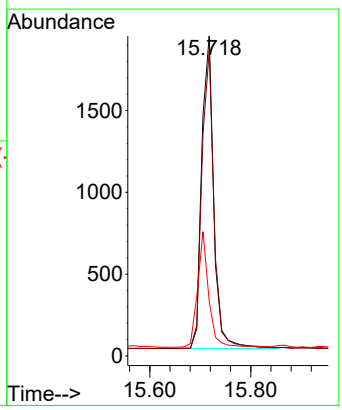


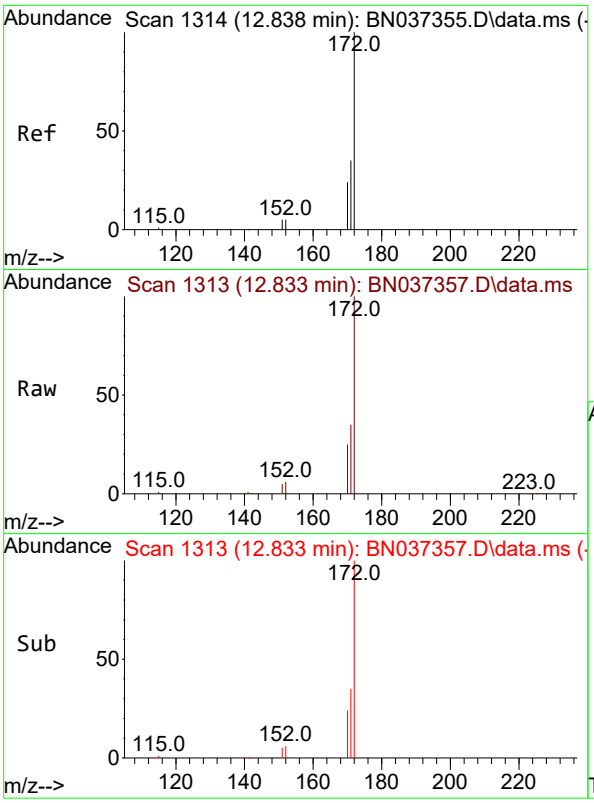


#14
2,4,6-Tribromophenol
Concen: 1.413 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:330 Resp: 3170

Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.4	117.6
141	34.3	24.4	36.6



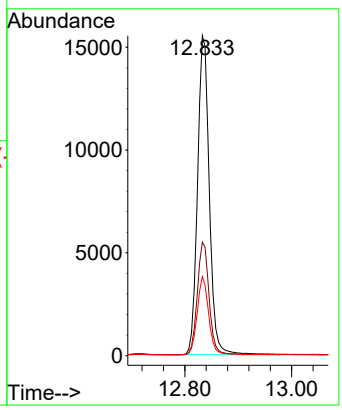


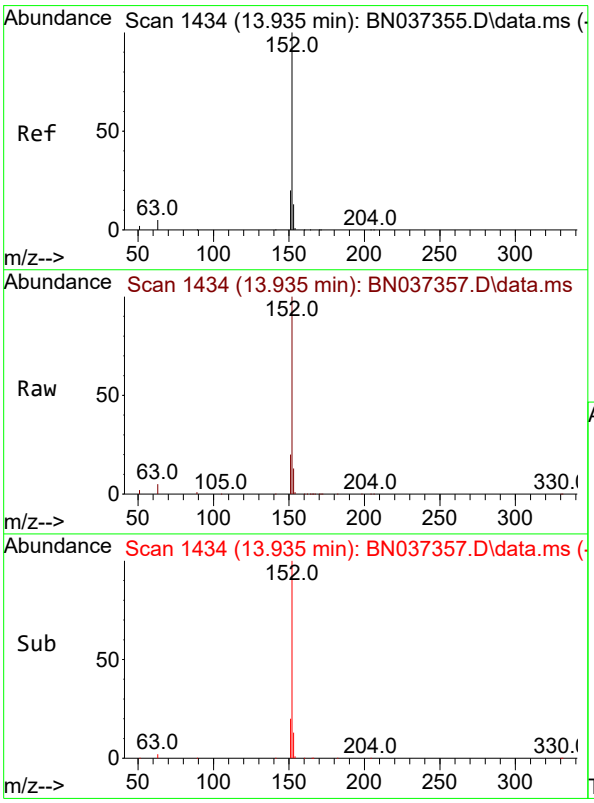
#15
2-Fluorobiphenyl
Concen: 1.730 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 23802

Ion	Ratio	Lower	Upper
172	100		
171	35.5	30.8	46.2
170	24.7	21.9	32.9

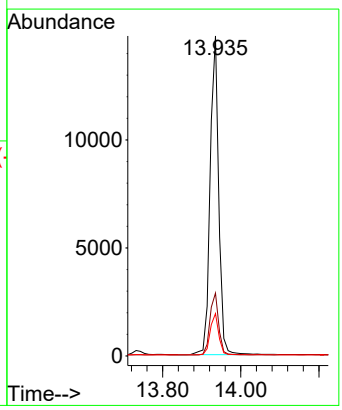


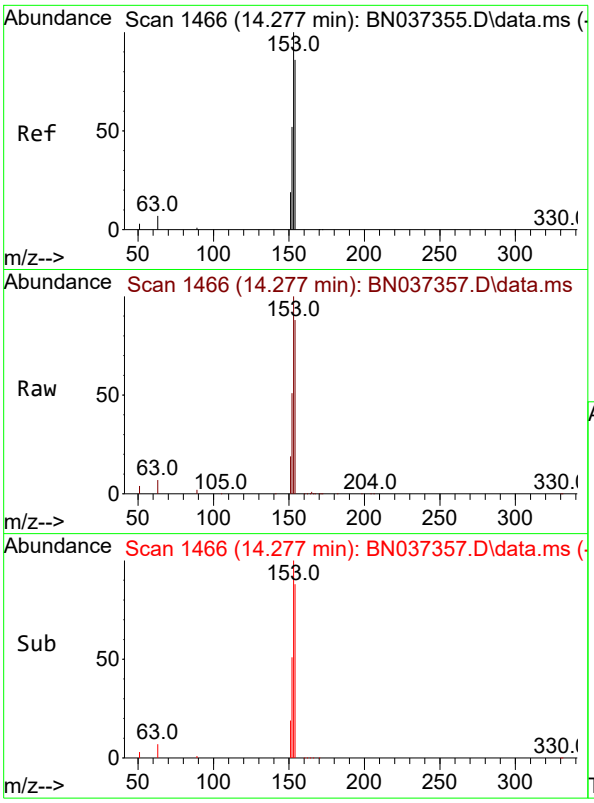


#16
Acenaphthylene
Concen: 1.713 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:152 Resp: 22546

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.6	24.8
153	13.0	10.2	15.2



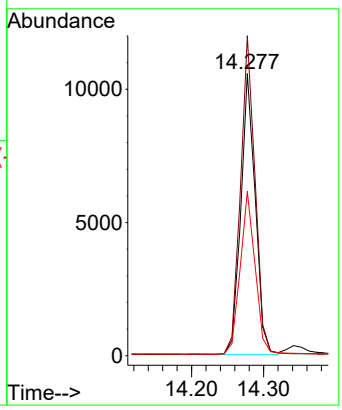


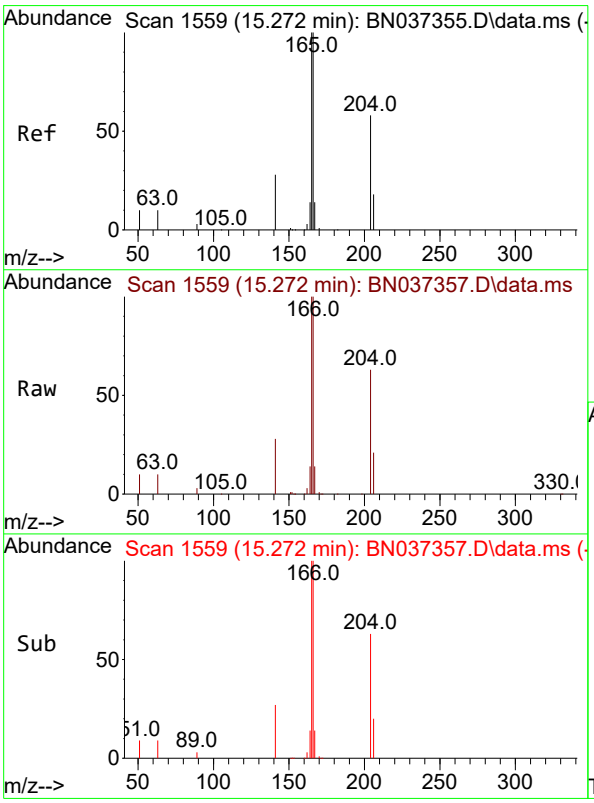
#17
Acenaphthene
Concen: 1.688 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 14727

Ion	Ratio	Lower	Upper
154	100		
153	115.0	93.1	139.7
152	60.4	48.6	73.0

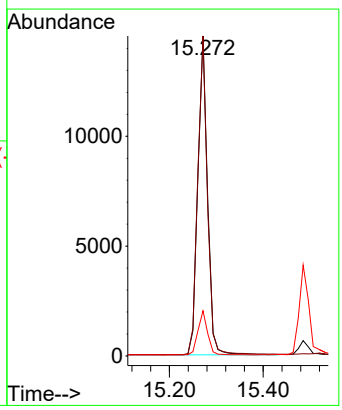


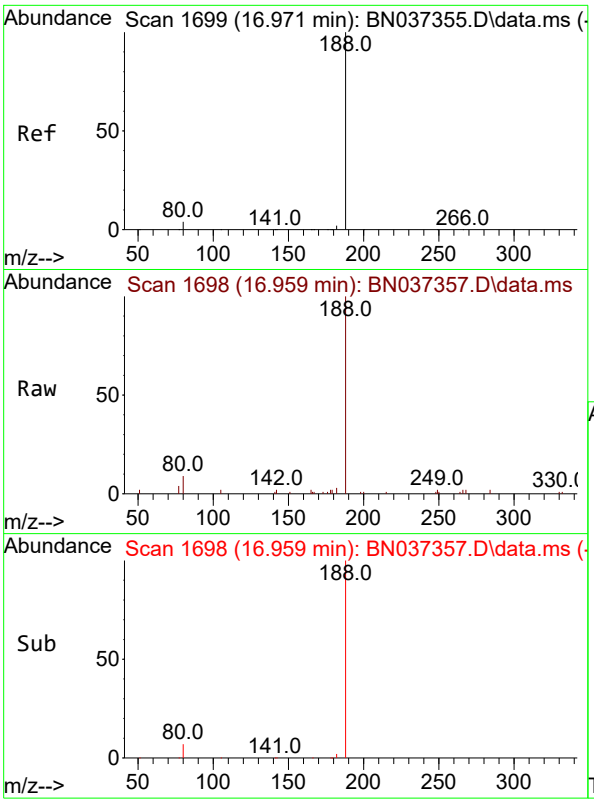


#18
Fluorene
Concen: 1.684 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:166 Resp: 20827

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.5	119.3
167	13.8	10.7	16.1



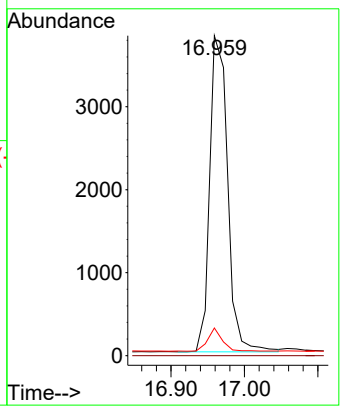


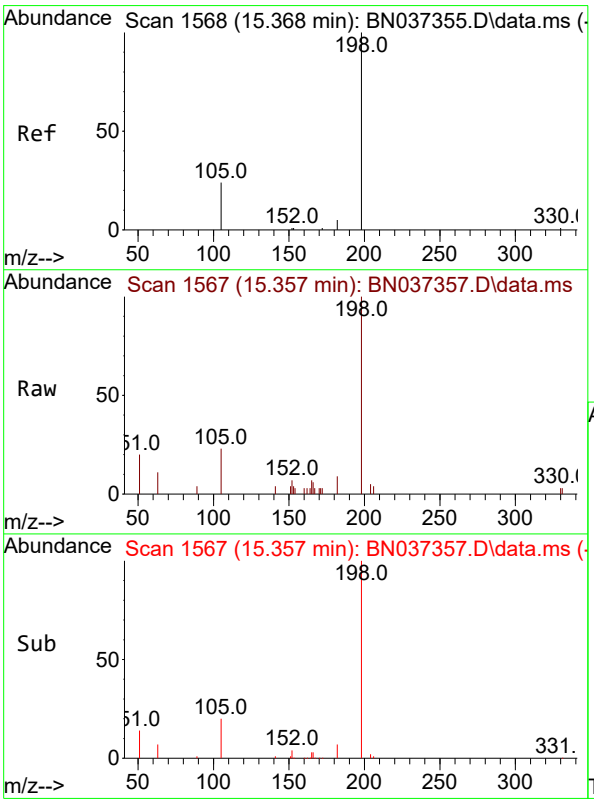
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 6455

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	6.2	9.2

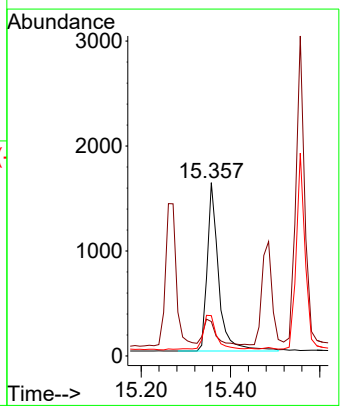


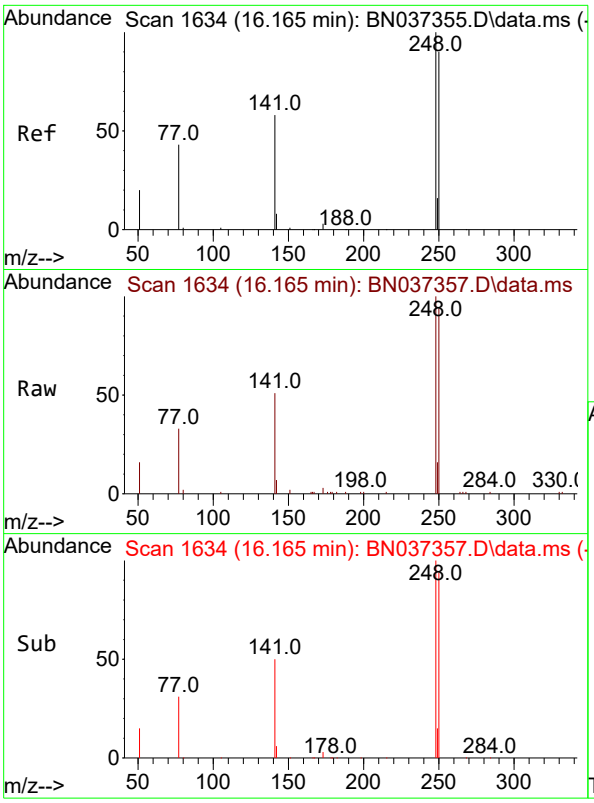


#20
4,6-Dinitro-2-methylphenol
Concen: 1.453 ng
RT: 15.357 min Scan# 1567
Delta R.T. -0.011 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:198 Resp: 2836

Ion	Ratio	Lower	Upper
198	100		
51	19.9	51.4	77.0#
105	23.3	45.5	68.3#



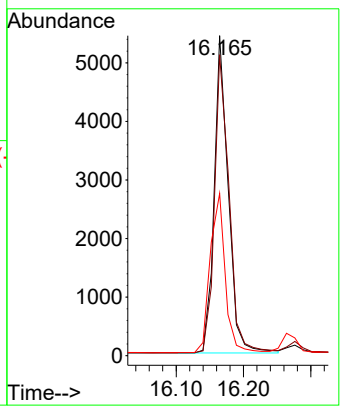


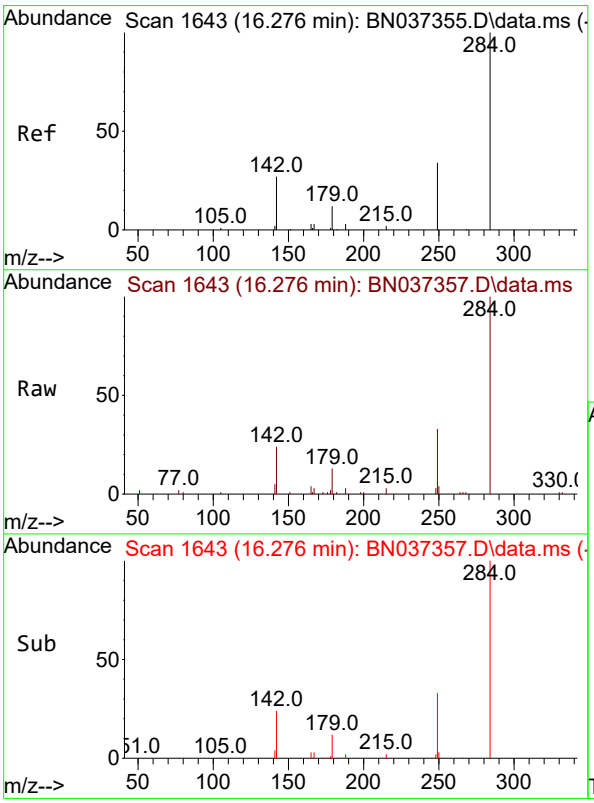
#21
4-Bromophenyl-phenylether
Concen: 1.493 ng
RT: 16.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 7869

Ion	Ratio	Lower	Upper
248	100		
250	94.1	80.4	120.6
141	50.7	33.3	49.9#

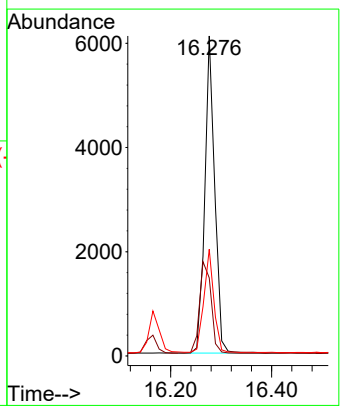


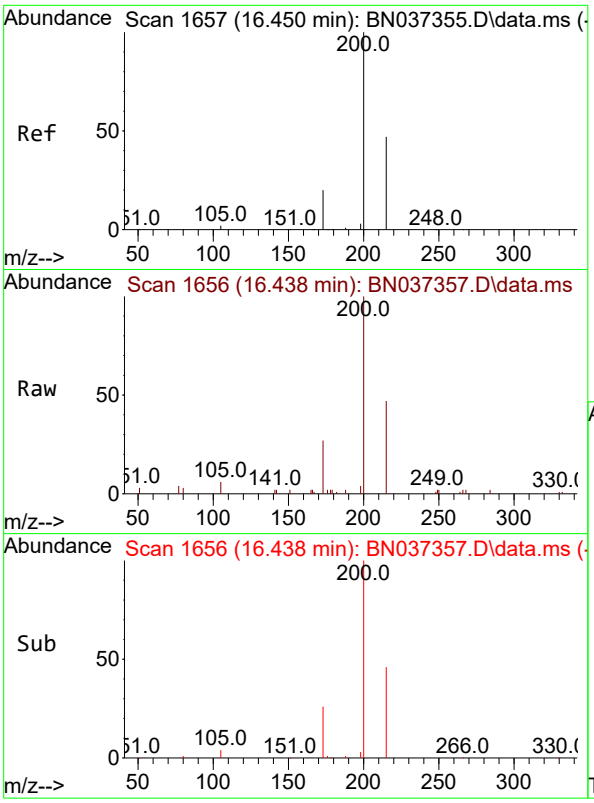


#22
Hexachlorobenzene
Concen: 1.519 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:284 Resp: 8354

Ion	Ratio	Lower	Upper
284	100		
142	33.8	27.0	40.6
249	32.9	28.8	43.2



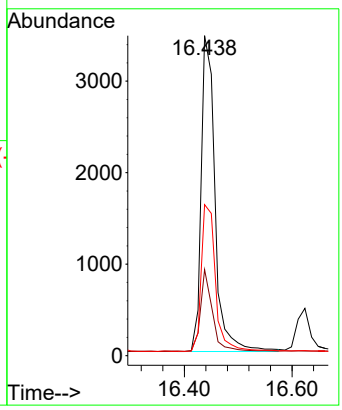


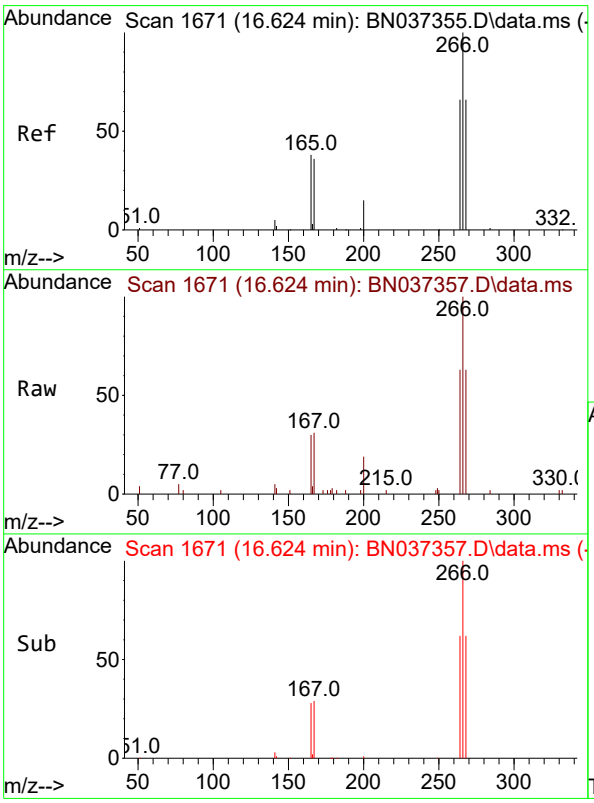
#23
Atrazine
Concen: 1.495 ng
RT: 16.438 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6166

Ion	Ratio	Lower	Upper
200	100		
173	26.9	29.2	43.8#
215	47.2	48.8	73.2#

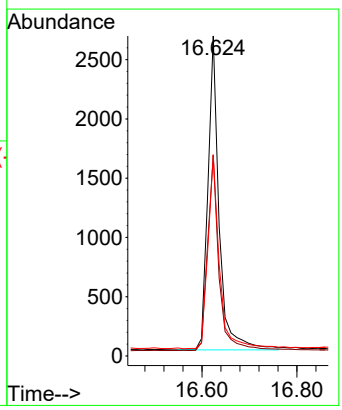


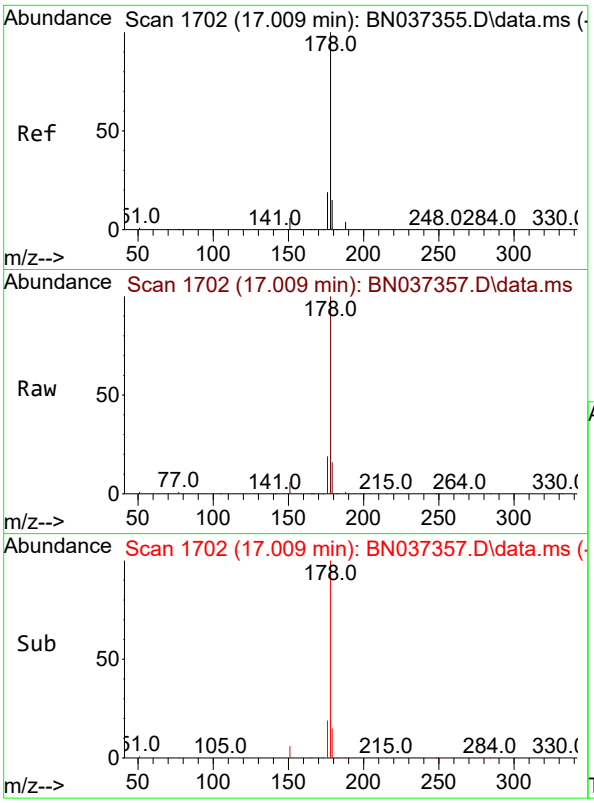


#24
Pentachlorophenol
Concen: 1.445 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:266 Resp: 4361

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.3	75.5
268	63.6	55.3	82.9



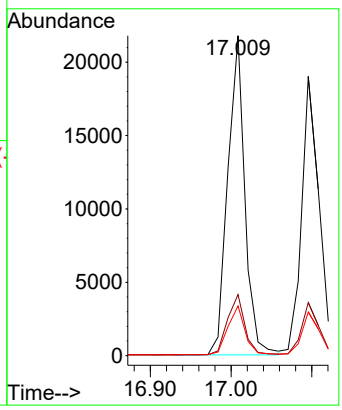


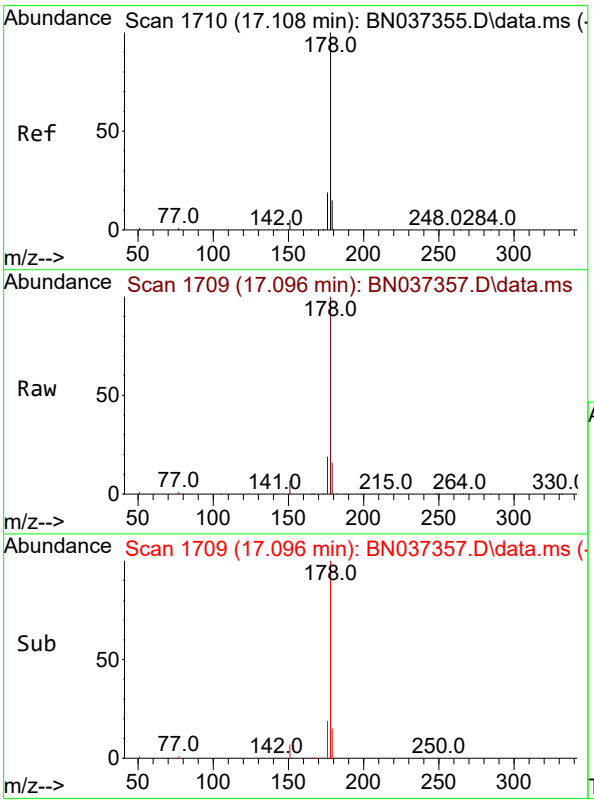
#25
Phenanthrene
Concen: 1.758 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 32059

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.2	22.8
179	15.4	12.9	19.3

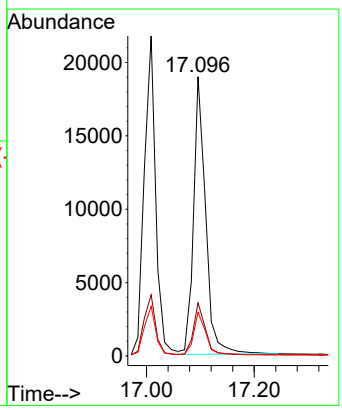


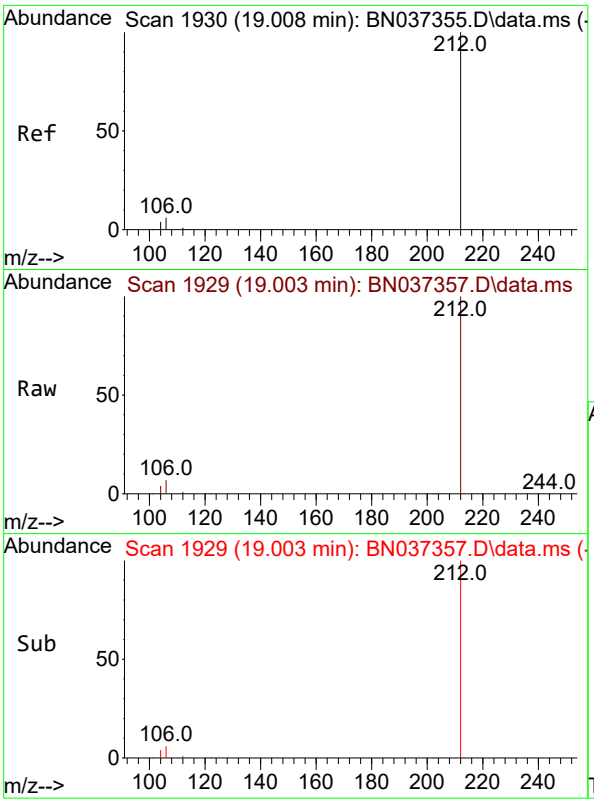


#26
Anthracene
Concen: 1.743 ng
RT: 17.096 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:178 Resp: 29693

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.7	22.1
179	15.5	13.0	19.6



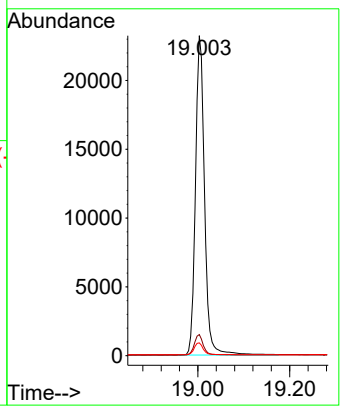


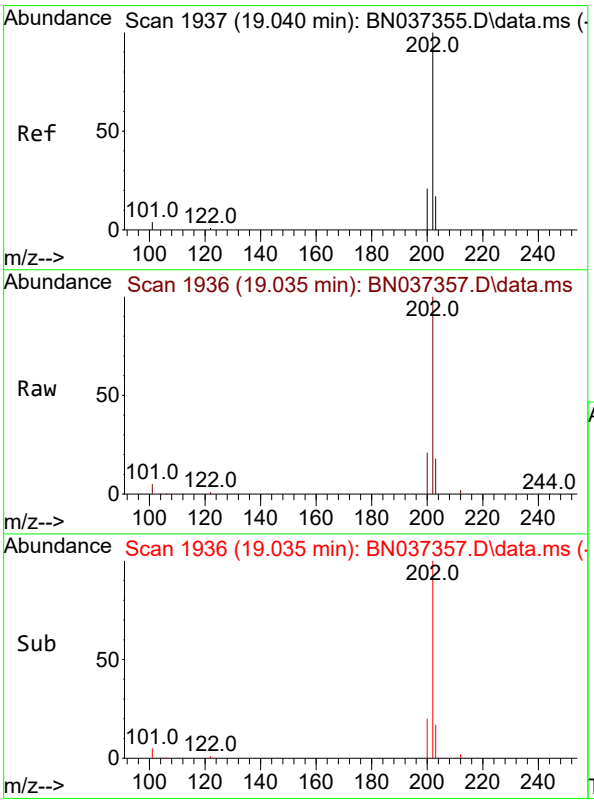
#27
Fluoranthene-d10
Concen: 1.586 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 31876

Ion	Ratio	Lower	Upper
212	100		
106	6.3	3.0	4.4#
104	3.8	2.0	3.0#

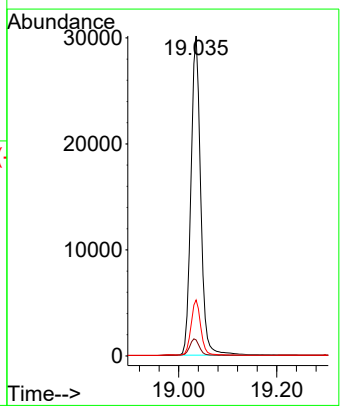


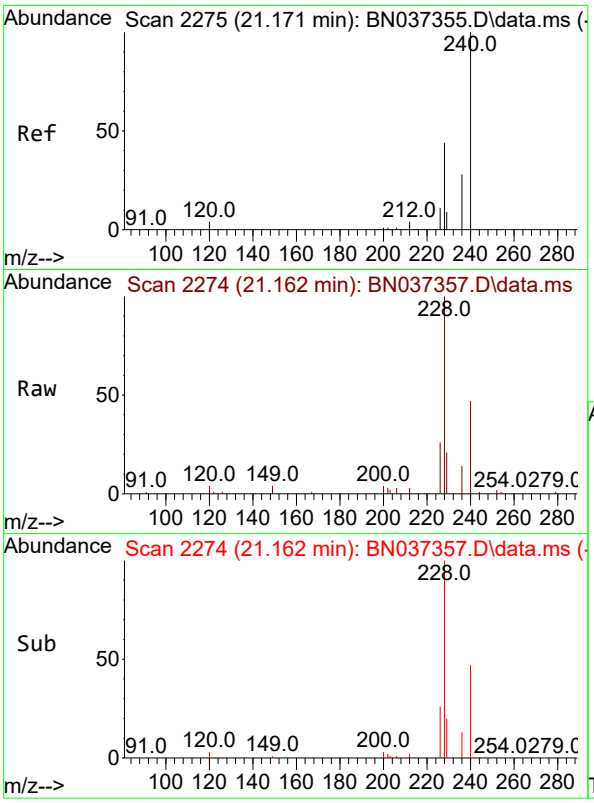


#28
Fluoranthene
Concen: 1.660 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:202 Resp: 41430

Ion	Ratio	Lower	Upper
202	100		
101	5.4	3.0	4.6#
203	17.3	13.7	20.5



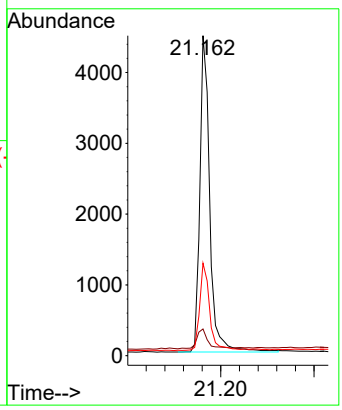


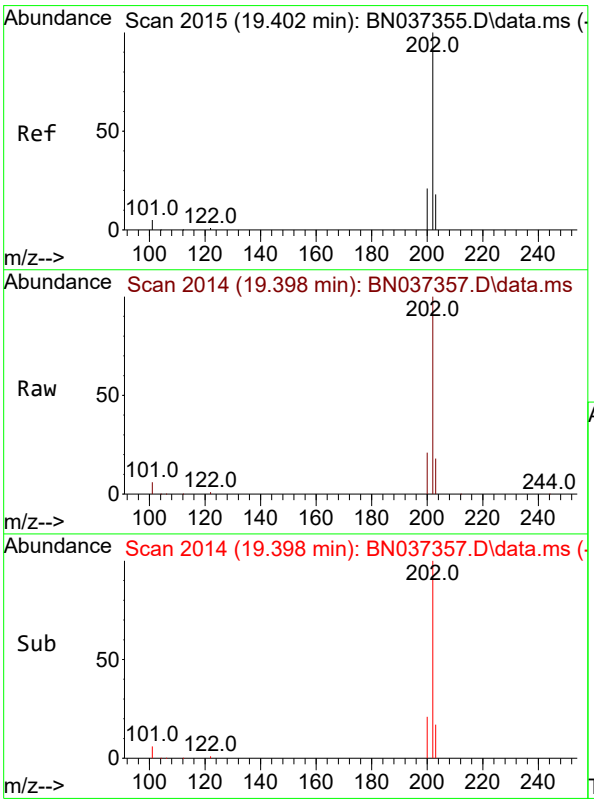
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 6604

Ion	Ratio	Lower	Upper
240	100		
120	8.3	7.5	11.3
236	28.9	24.9	37.3

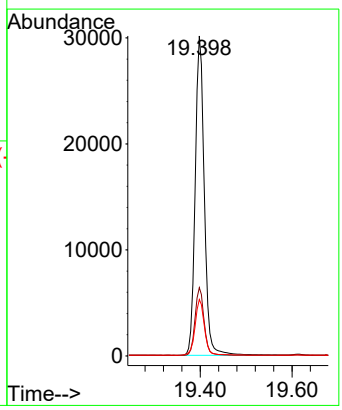


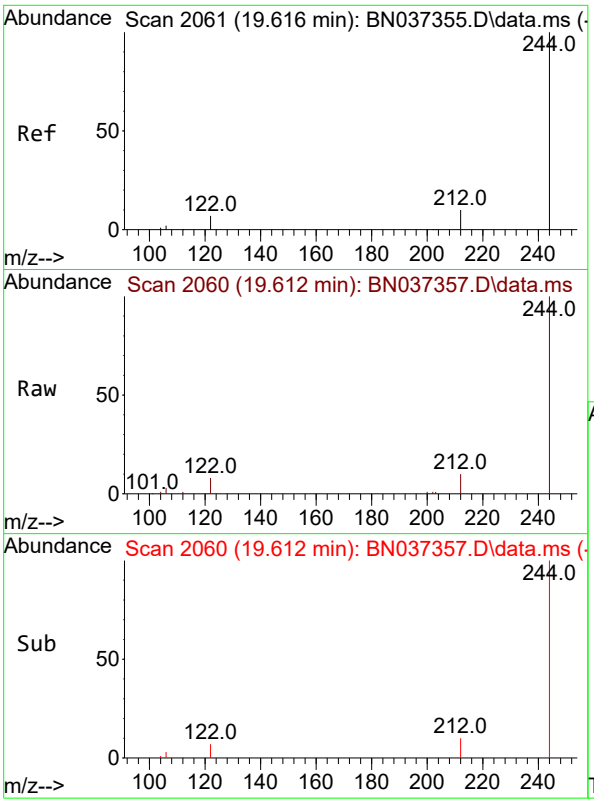


#30
Pyrene
Concen: 1.642 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:202 Resp: 41513

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.9	14.5	21.7



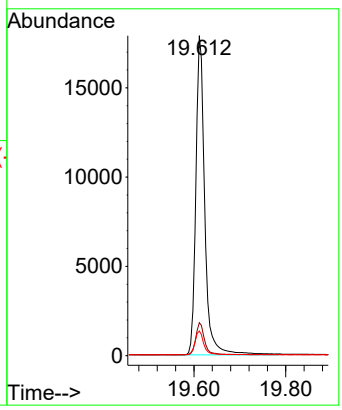


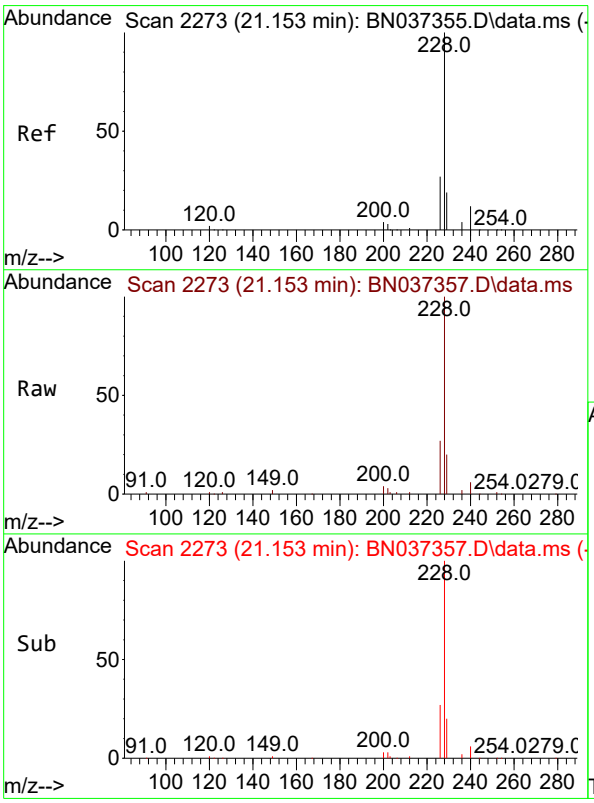
#31
Terphenyl-d14
Concen: 1.593 ng
RT: 19.612 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 24025

Ion	Ratio	Lower	Upper
244	100		
212	10.3	11.1	16.7#
122	7.7	7.2	10.8

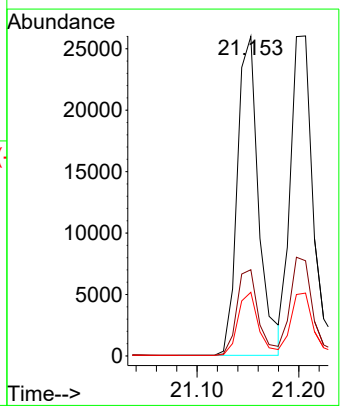


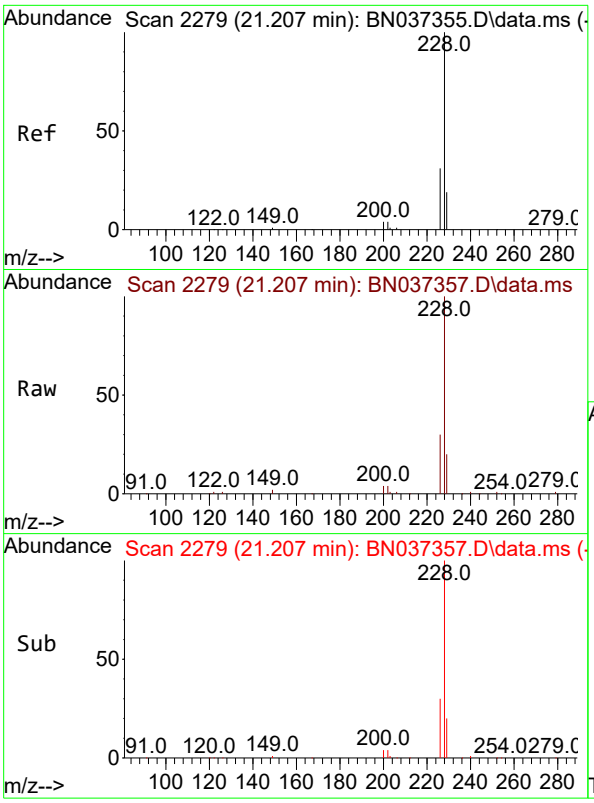


#32
Benzo(a)anthracene
Concen: 1.773 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:228 Resp: 37793

Ion	Ratio	Lower	Upper
228	100		
226	27.0	23.0	34.4
229	19.9	17.4	26.0



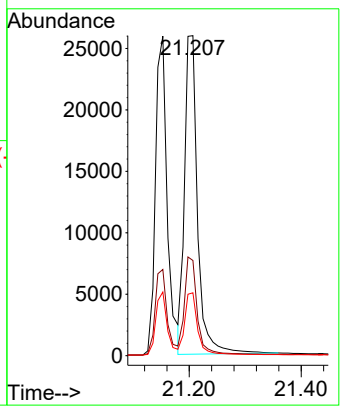


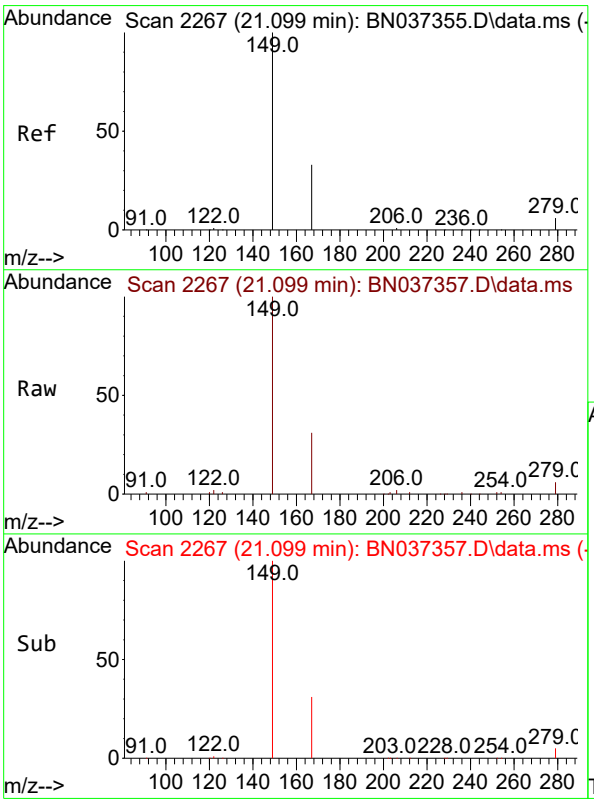
#33
Chrysene
Concen: 1.550 ng
RT: 21.207 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 41889

Ion	Ratio	Lower	Upper
228	100		
226	29.8	25.4	38.2
229	19.7	17.3	25.9

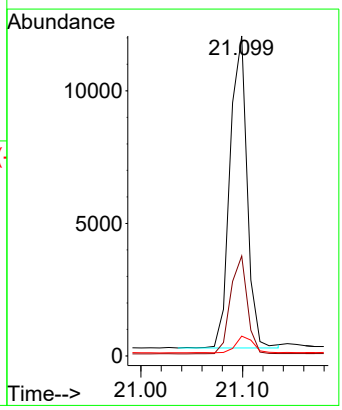


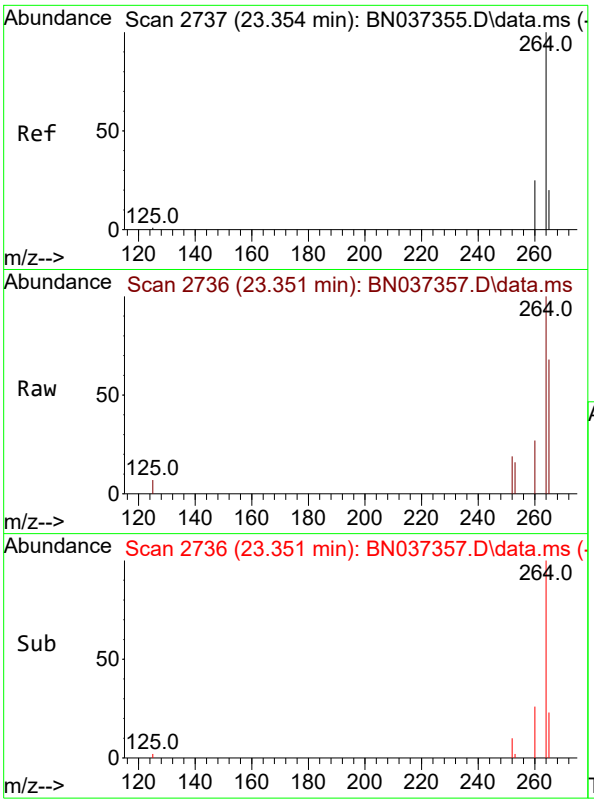


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.573 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:149 Resp: 13738

Ion	Ratio	Lower	Upper
149	100		
167	30.9	24.6	37.0
279	5.5	6.5	9.7#



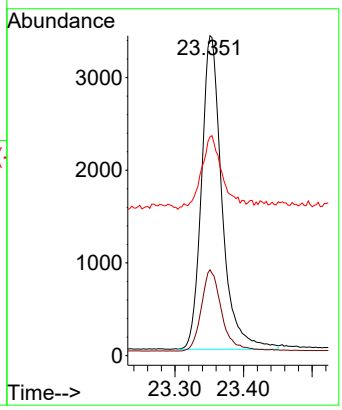


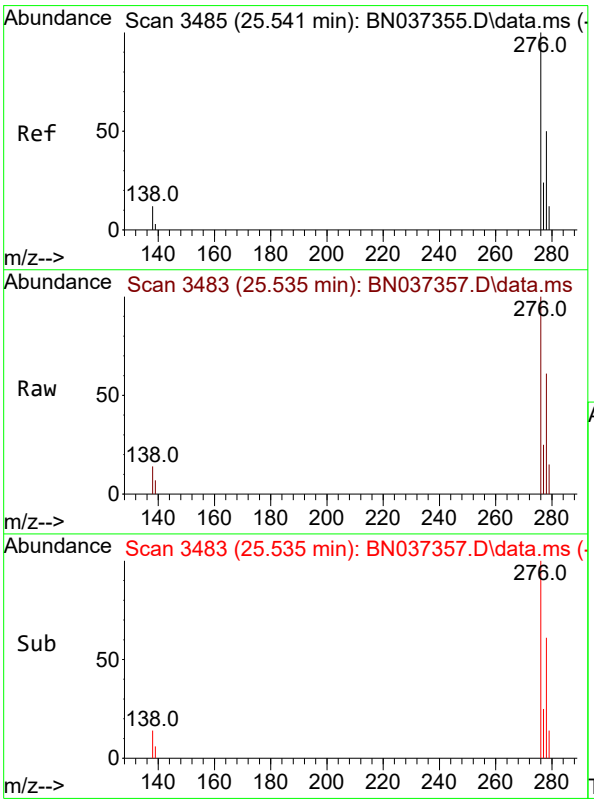
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 7013

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	68.4	71.4	107.0#

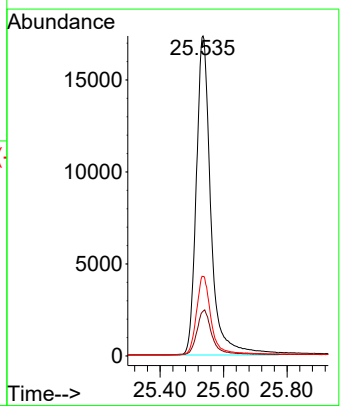


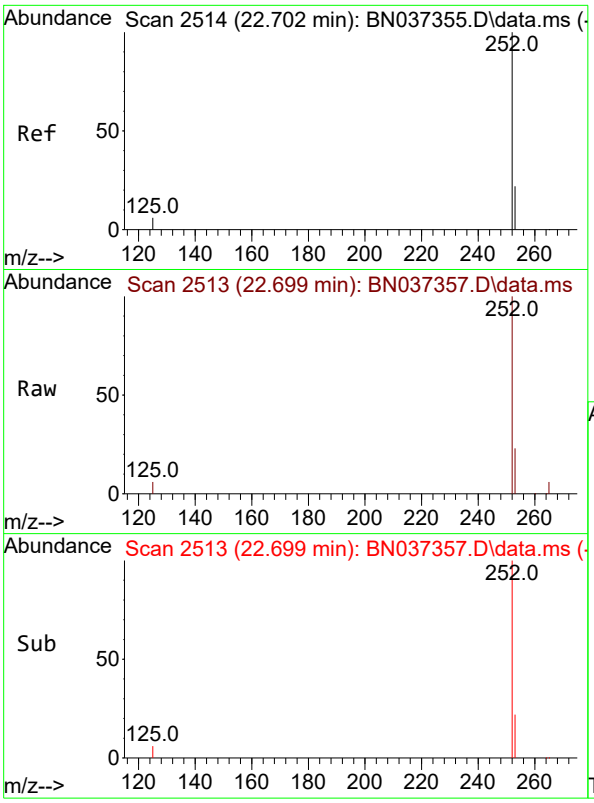


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.863 ng
RT: 25.535 min Scan# 3483
Delta R.T. -0.006 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:276 Resp: 55371

Ion	Ratio	Lower	Upper
276	100		
138	14.3	2.2	3.2#
277	24.2	17.1	25.7



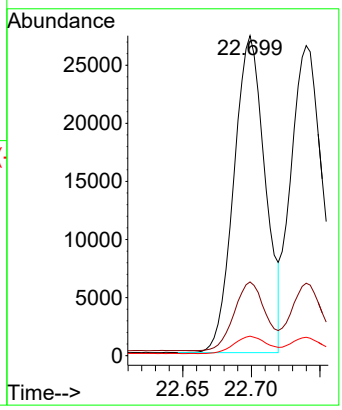


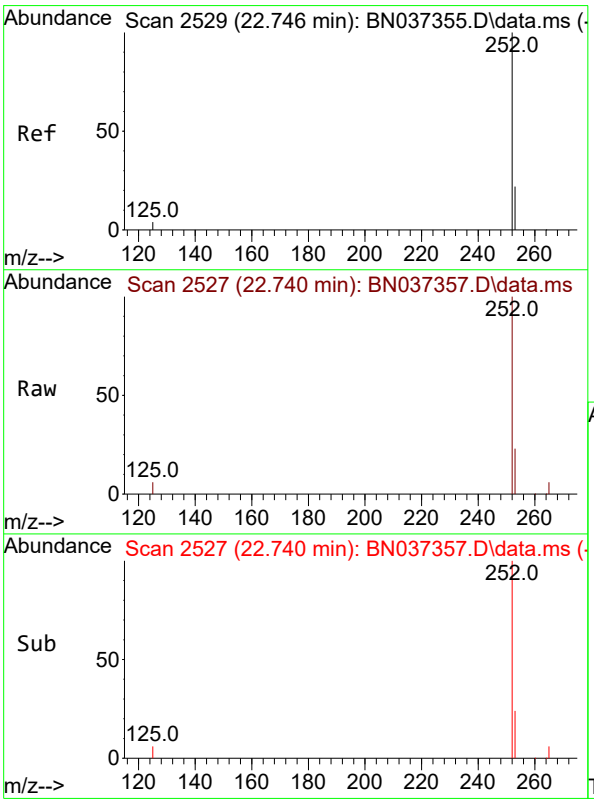
#37
Benzo(b)fluoranthene
Concen: 1.738 ng
RT: 22.699 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 43215

Ion	Ratio	Lower	Upper
252	100		
253	23.1	26.6	40.0#
125	6.1	6.1	9.1

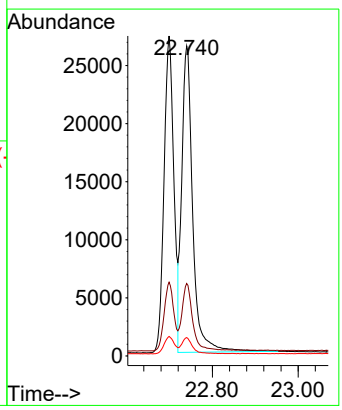


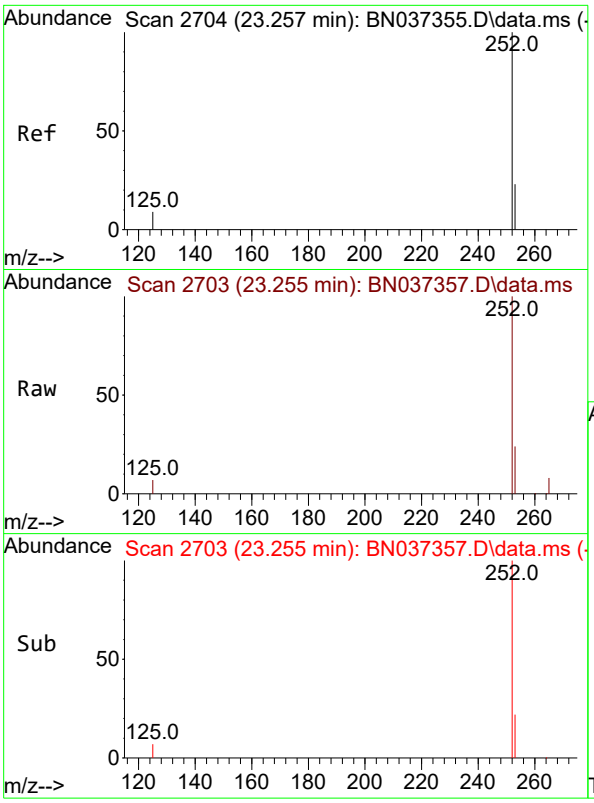


#38
Benzo(k)fluoranthene
Concen: 1.736 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:252 Resp: 46879

Ion	Ratio	Lower	Upper
252	100		
253	23.4	26.7	40.1#
125	6.0	6.5	9.7#



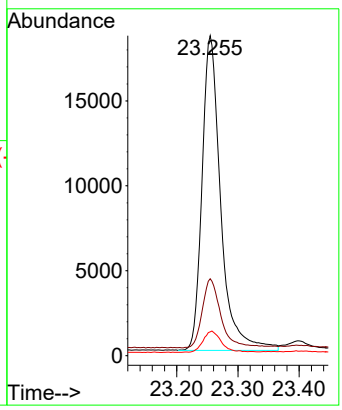


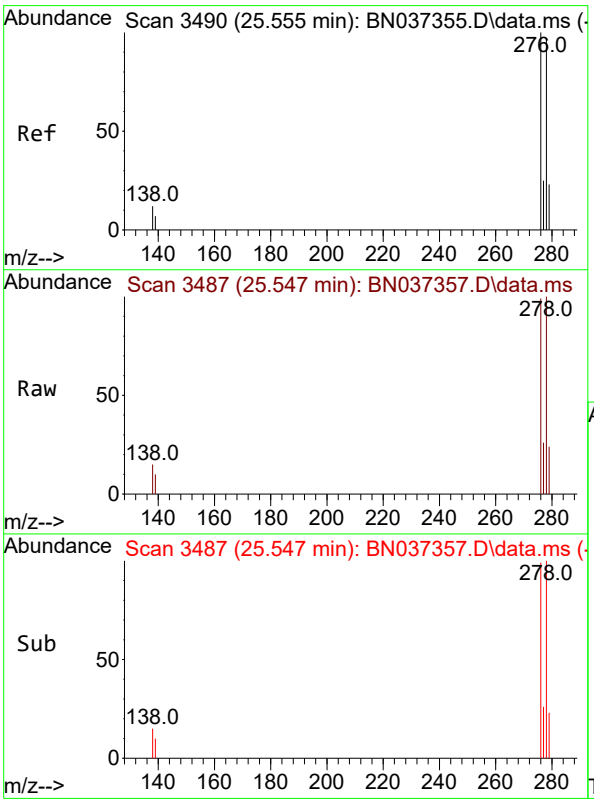
#39
Benzo(a)pyrene
Concen: 1.724 ng
RT: 23.255 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 39242

Ion	Ratio	Lower	Upper
252	100		
253	24.1	31.6	47.4#
125	7.5	8.4	12.6#

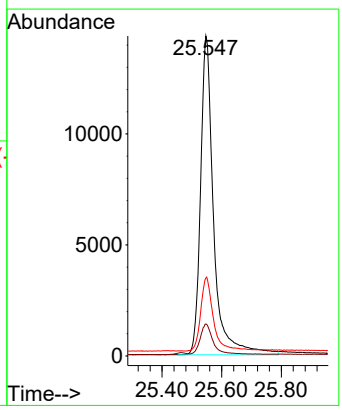


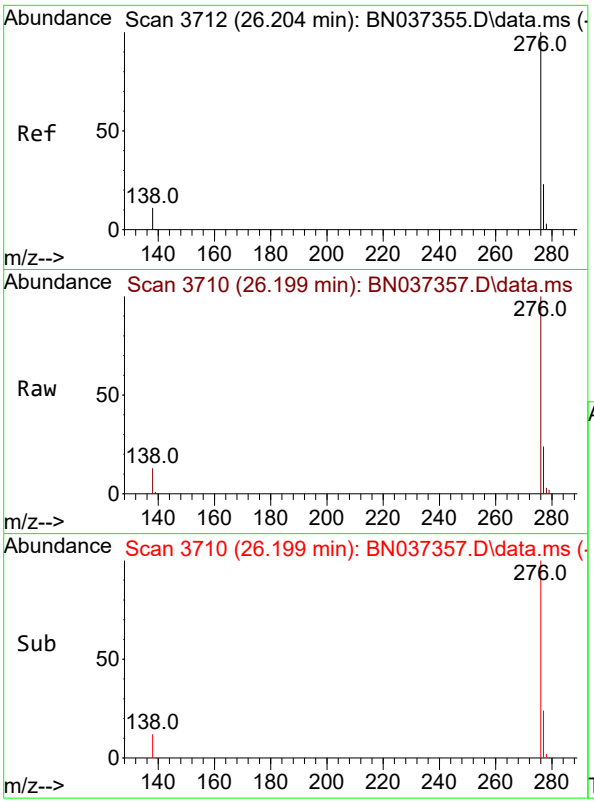


#40
Dibenzo(a,h)anthracene
Concen: 1.849 ng
RT: 25.547 min Scan# 3487
Delta R.T. -0.009 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:278 Resp: 43786

Ion	Ratio	Lower	Upper
278	100		
139	10.0	10.2	15.4#
279	24.3	35.6	53.4#



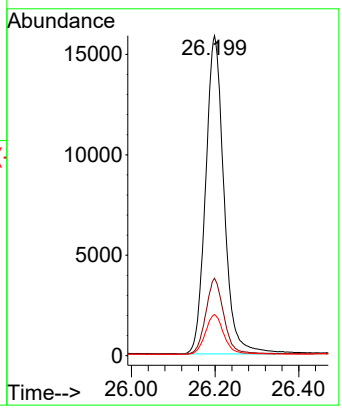


#41
Benzo(g,h,i)perylene
Concen: 1.767 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 48259

Ion	Ratio	Lower	Upper
276	100		
277	24.2	22.7	34.1
138	12.9	9.4	14.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037358.D
Acq On : 20 Jun 2025 19:51
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 20 23:28:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	2553	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	5431	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	3830	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	7833	0.400	ng	#	-0.01
29) Chrysene-d12	21.162	240	7155	0.400	ng		0.00
35) Perylene-d12	23.348	264	6736	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	16051	3.439	ng		0.00
5) Phenol-d6	6.744	99	17930	3.882	ng		0.00
8) Nitrobenzene-d5	8.707	82	15387	3.413	ng		-0.01
11) 2-Methylnaphthalene-d10	11.940	152	28839	3.282	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	7296	2.664	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	53666	3.194	ng		0.00
27) Fluoranthene-d10	19.003	212	72122	2.957	ng		0.00
31) Terphenyl-d14	19.611	244	53536	3.277	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.097	88	7556	3.351	ng		91
3) n-Nitrosodimethylamine	3.408	42	7228	2.753	ng	#	72
6) bis(2-Chloroethyl)ether	6.997	93	16052	3.972	ng		97
9) Naphthalene	10.394	128	45711	3.247	ng	#	86
10) Hexachlorobutadiene	10.682	225	16687	2.426	ng	#	99
12) 2-Methylnaphthalene	12.016	142	33783	3.412	ng	#	92
16) Acenaphthylene	13.935	152	52599	3.272	ng		98
17) Acenaphthene	14.277	154	34413	3.229	ng		98
18) Fluorene	15.271	166	49180	3.256	ng		100
20) 4,6-Dinitro-2-methylph...	15.357	198	6721	2.838	ng	#	44
21) 4-Bromophenyl-phenylether	16.165	248	18488	2.891	ng		96
22) Hexachlorobenzene	16.276	284	18573	2.784	ng		98
23) Atrazine	16.438	200	14961	2.988	ng	#	81
24) Pentachlorophenol	16.624	266	10110	2.761	ng		97
25) Phenanthrene	17.009	178	76487	3.455	ng		99
26) Anthracene	17.095	178	71218	3.446	ng		98
28) Fluoranthene	19.035	202	94745	3.129	ng	#	99
30) Pyrene	19.398	202	93984	3.430	ng		99
32) Benzo(a)anthracene	21.144	228	78532	3.401	ng		97
33) Chrysene	21.197	228	87474	2.987	ng		97
34) Bis(2-ethylhexyl)phtha...	21.090	149	30412	3.214	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.529	276	98025	3.433	ng	#	90
37) Benzo(b)fluoranthene	22.696	252	82568	3.456	ng	#	84
38) Benzo(k)fluoranthene	22.737	252	87144	3.359	ng	#	83
39) Benzo(a)pyrene	23.254	252	72643	3.323	ng	#	76
40) Dibenzo(a,h)anthracene	25.547	278	77899	3.426	ng	#	74
41) Benzo(g,h,i)perylene	26.199	276	84957	3.239	ng		93

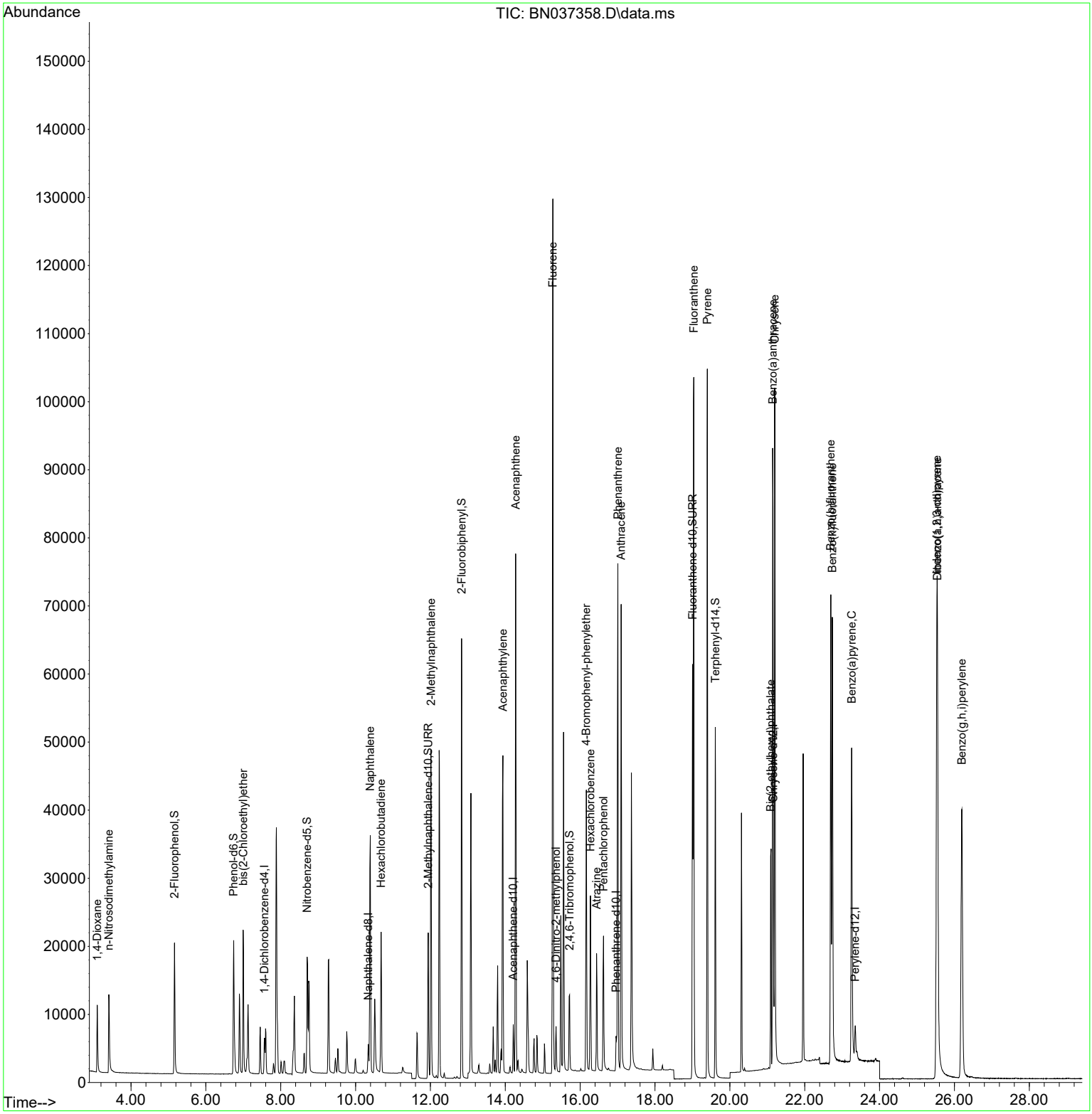
(#) = qualifier out of range (m) = manual integration (+) = signals summed

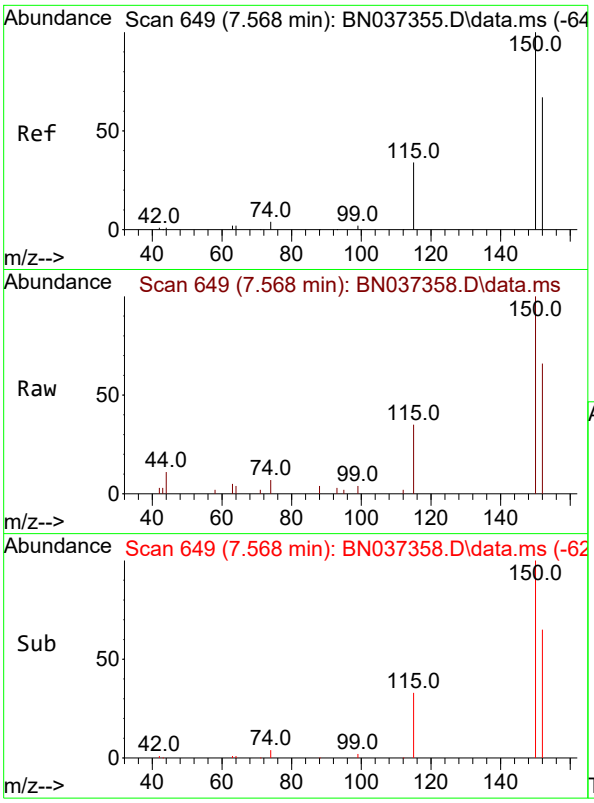
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037358.D
Acq On : 20 Jun 2025 19:51
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 20 23:28:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



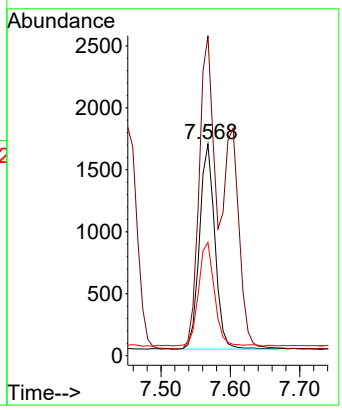


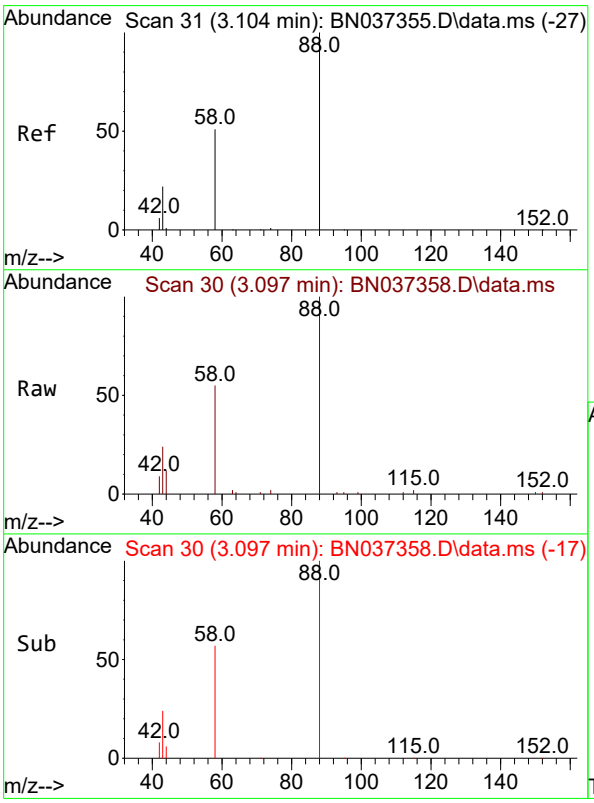
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2553

Ion	Ratio	Lower	Upper
152	100		
150	151.3	112.7	169.1
115	53.5	45.9	68.9

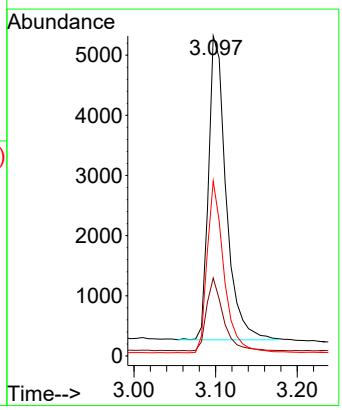


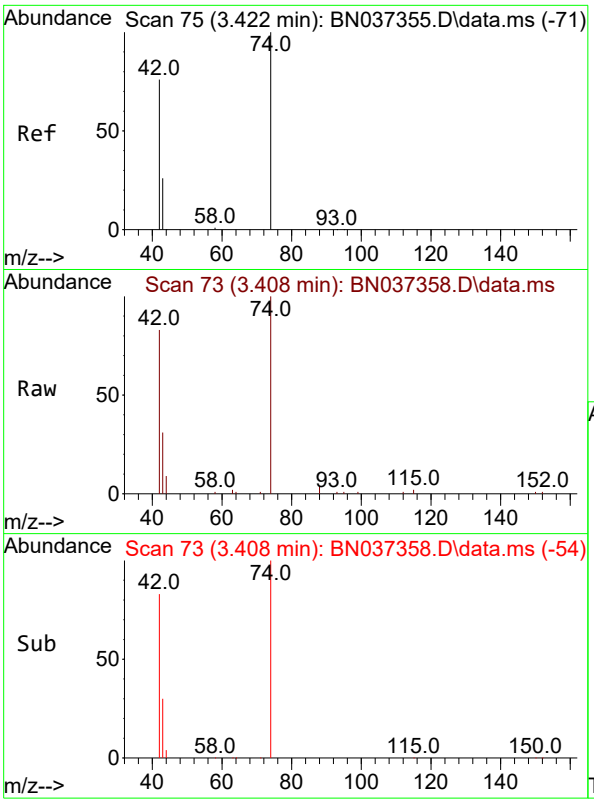


#2
1,4-Dioxane
Concen: 3.351 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion: 88 Resp: 7556

Ion	Ratio	Lower	Upper
88	100		
43	22.5	21.0	31.6
58	54.2	38.0	57.0



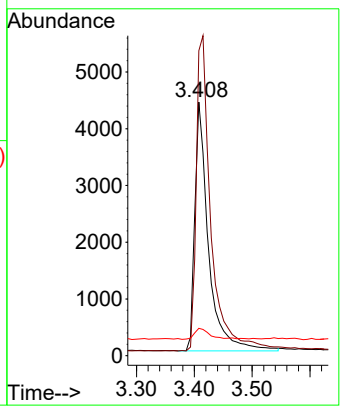


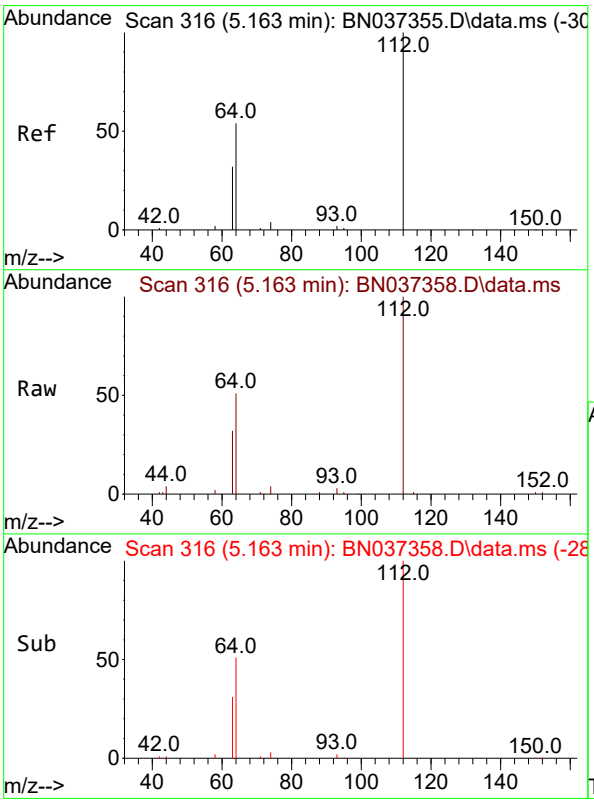
#3
n-Nitrosodimethylamine
Concen: 2.753 ng
RT: 3.408 min Scan# 7
Delta R.T. -0.015 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 7228

Ion	Ratio	Lower	Upper
42	100		
74	135.8	84.3	126.5#
44	5.2	5.0	7.4

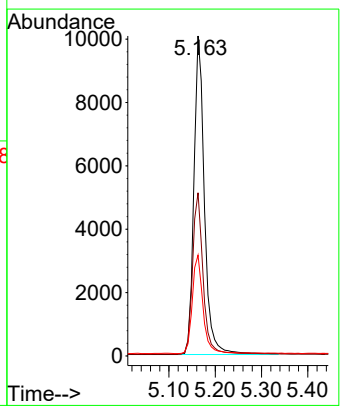


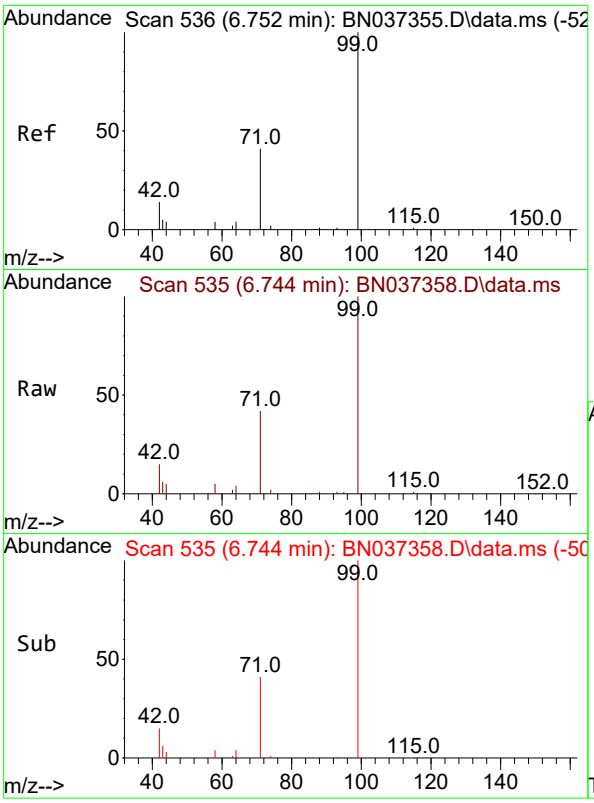


#4
2-Fluorophenol
Concen: 3.439 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:112 Resp: 16051

Ion	Ratio	Lower	Upper
112	100		
64	50.8	38.7	58.1
63	31.2	26.4	39.6



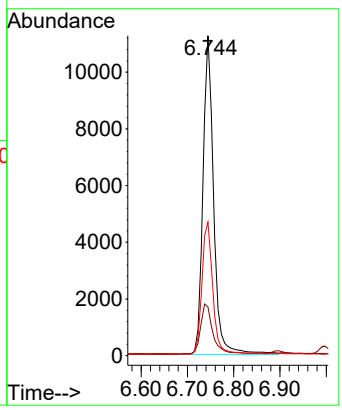


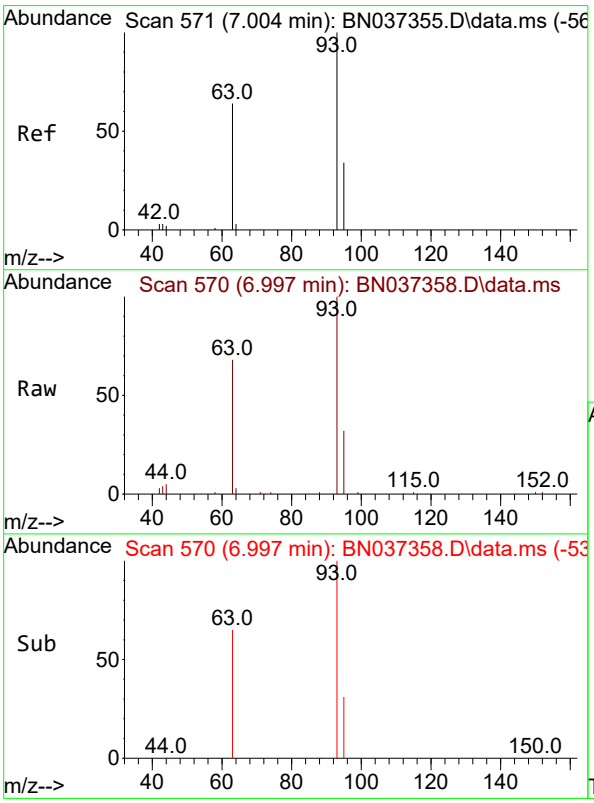
#5
Phenol-d6
Concen: 3.882 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 17930

Ion	Ratio	Lower	Upper
99	100		
42	17.7	19.8	29.8#
71	42.9	42.6	64.0

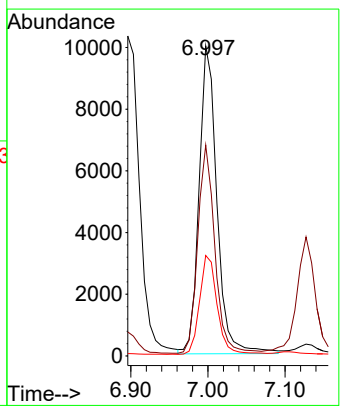


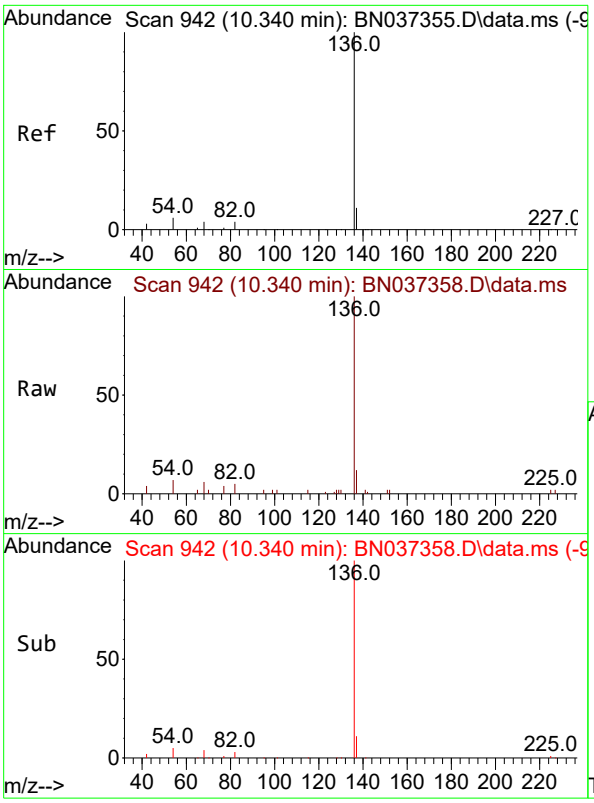


#6
bis(2-Chloroethyl)ether
Concen: 3.972 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion: 93 Resp: 16052

Ion	Ratio	Lower	Upper
93	100		
63	64.4	53.2	79.8
95	31.6	27.3	40.9



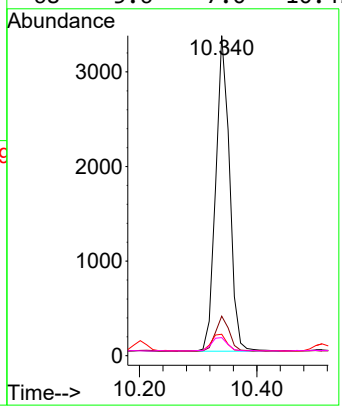


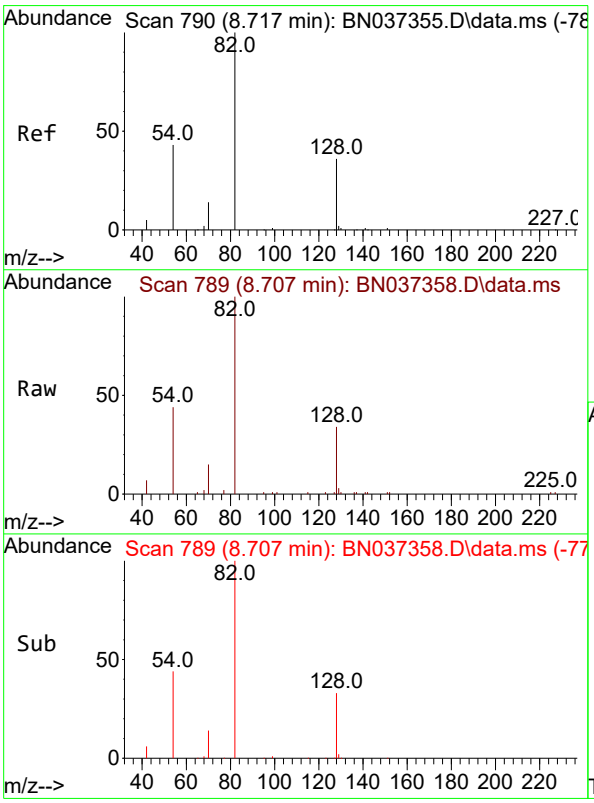
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5431

Ion	Ratio	Lower	Upper
136	100		
137	12.4	12.2	18.2
54	6.7	8.8	13.2#
68	5.6	7.0	10.4#

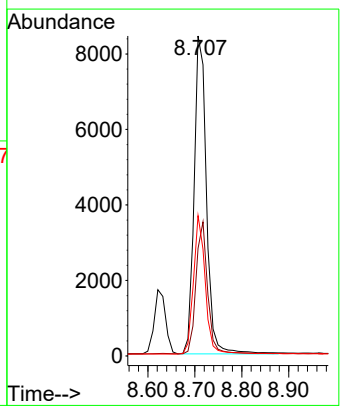


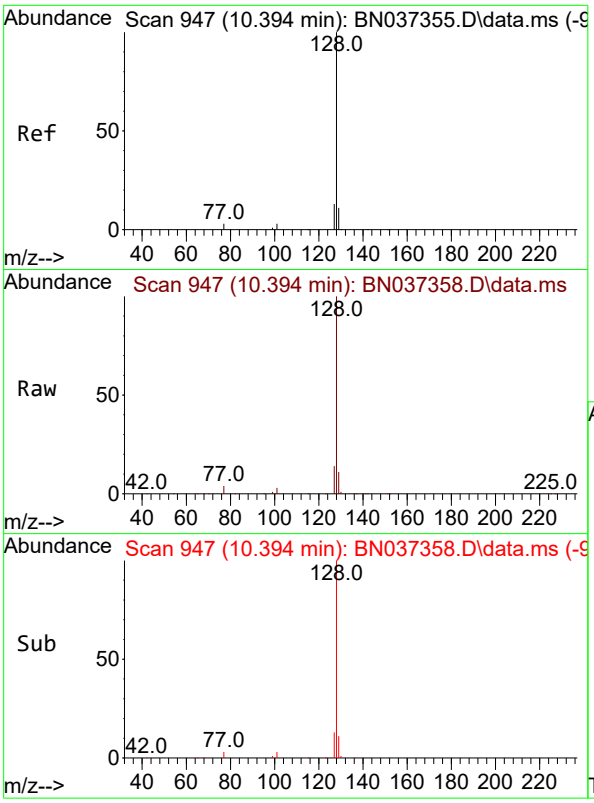


#8
Nitrobenzene-d5
Concen: 3.413 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion: 82 Resp: 15387

Ion	Ratio	Lower	Upper
82	100		
128	33.6	42.5	63.7#
54	43.9	43.2	64.8



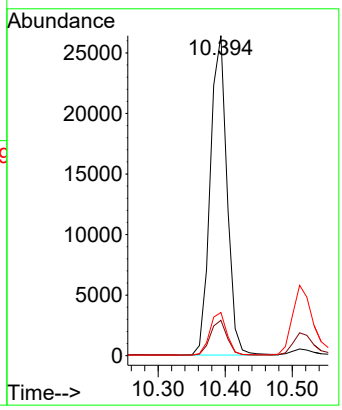


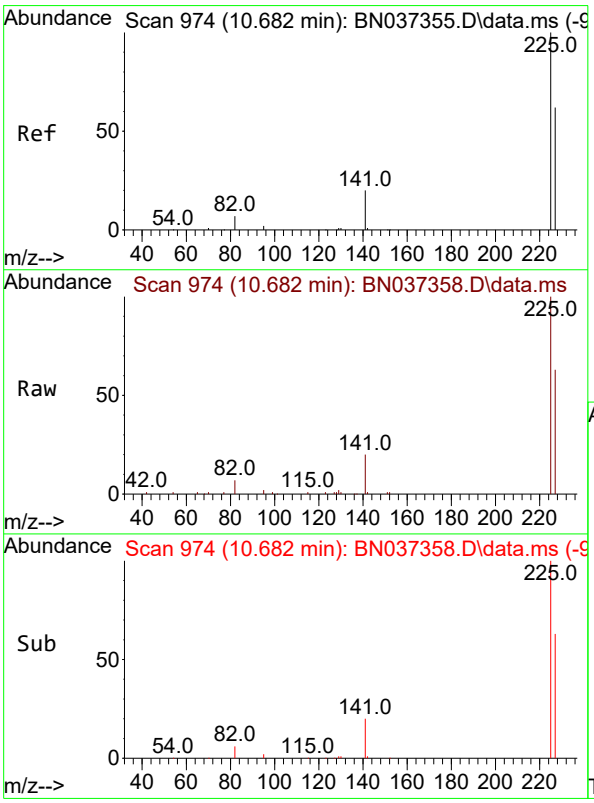
#9
Naphthalene
Concen: 3.247 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 45711

Ion	Ratio	Lower	Upper
128	100		
129	11.1	14.0	21.0#
127	13.5	15.8	23.8#

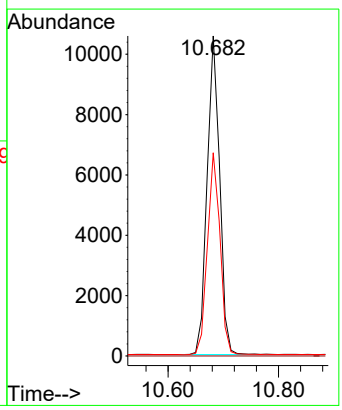


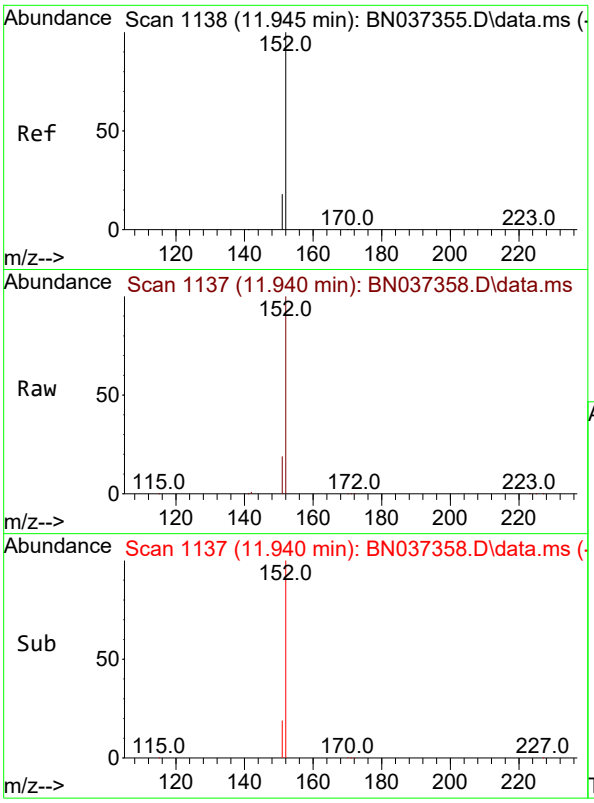


#10
Hexachlorobutadiene
Concen: 2.426 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:225 Resp: 16687

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.3	75.5



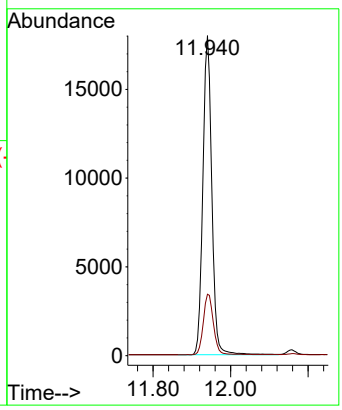


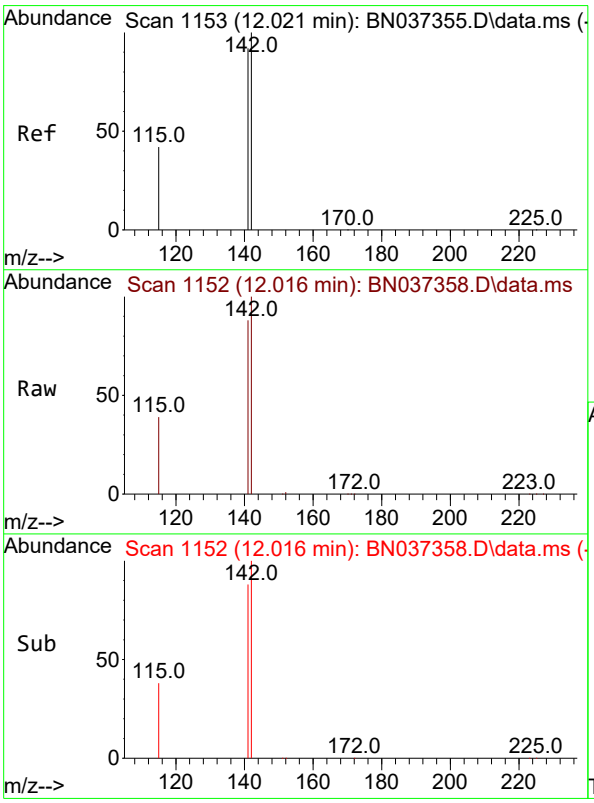
#11
2-Methylnaphthalene-d10
Concen: 3.282 ng
RT: 11.940 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 28839

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.4	26.0

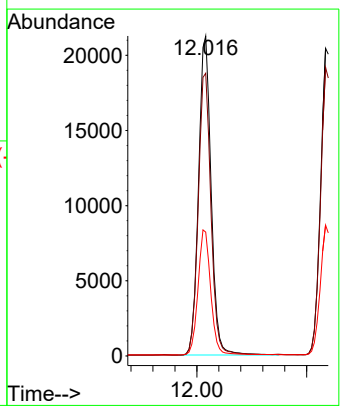


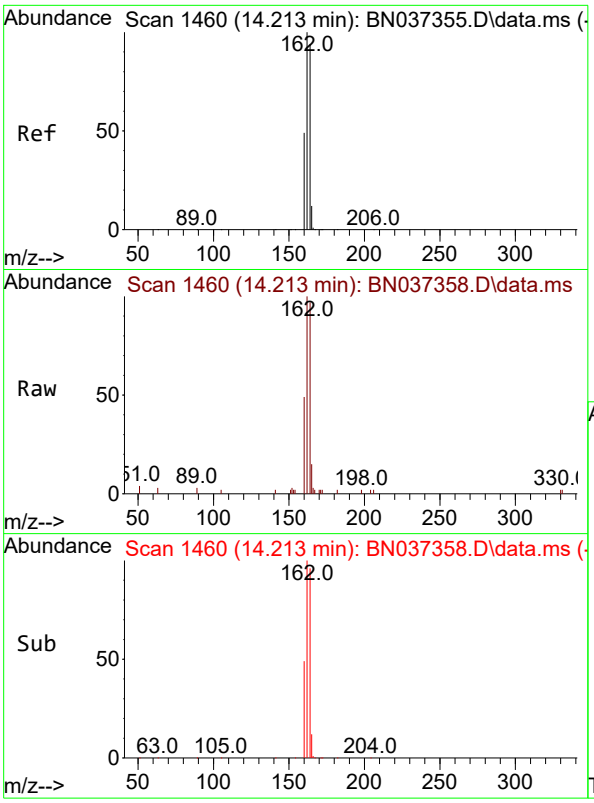


#12
2-Methylnaphthalene
Concen: 3.412 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:142 Resp: 33783

Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.2	105.2
115	38.7	43.0	64.4#



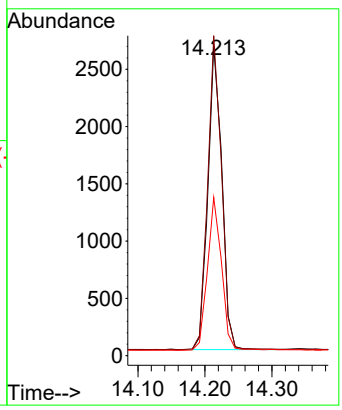


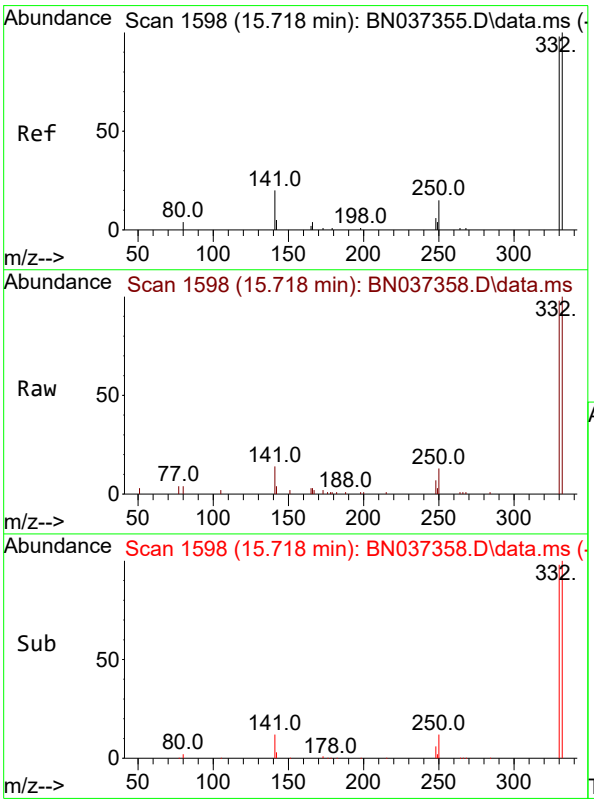
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 3830

Ion	Ratio	Lower	Upper
164	100		
162	103.5	81.5	122.3
160	51.1	43.0	64.4

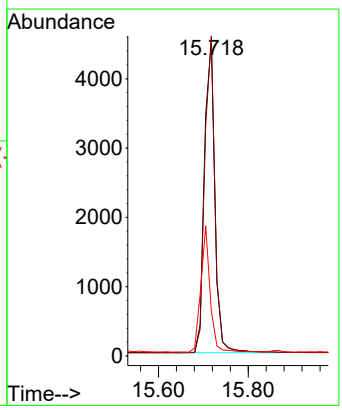


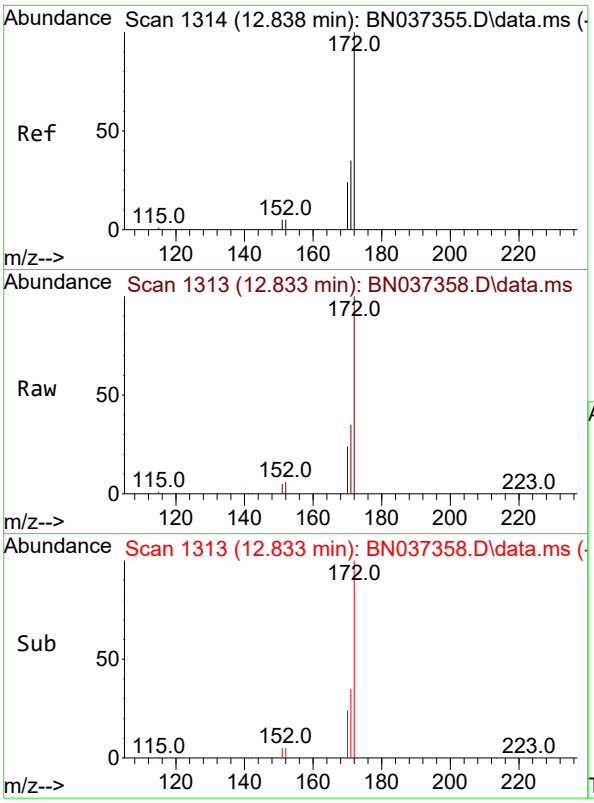


#14
2,4,6-Tribromophenol
Concen: 2.664 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:330 Resp: 7296

Ion	Ratio	Lower	Upper
330	100		
332	98.6	78.4	117.6
141	35.6	24.4	36.6



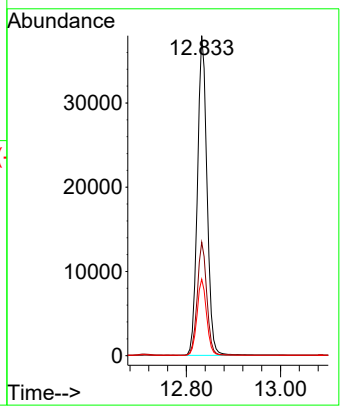


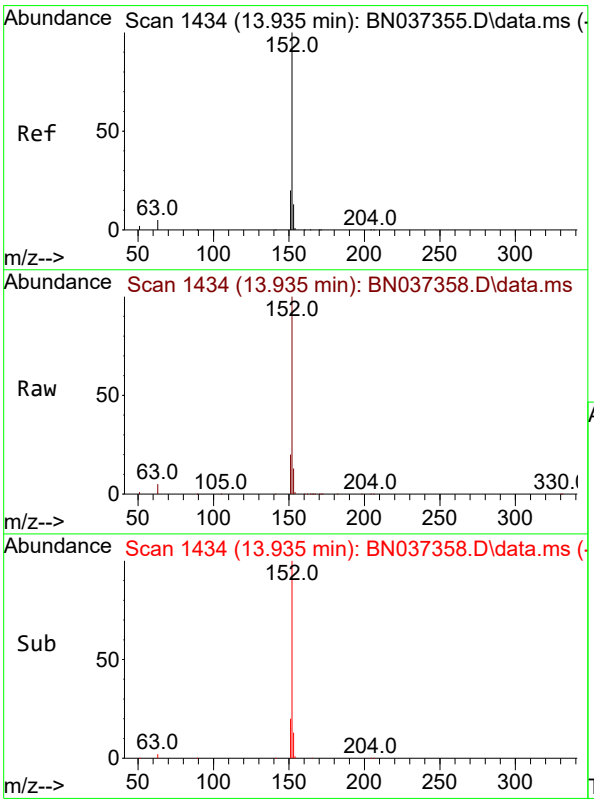
#15
2-Fluorobiphenyl
Concen: 3.194 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 53666

Ion	Ratio	Lower	Upper
172	100		
171	35.5	30.8	46.2
170	23.9	21.9	32.9

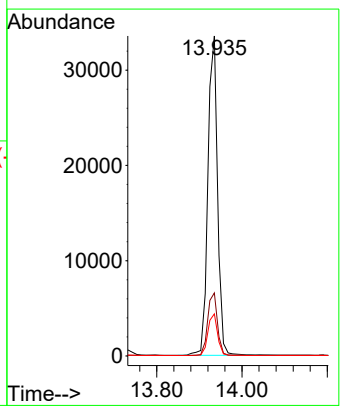


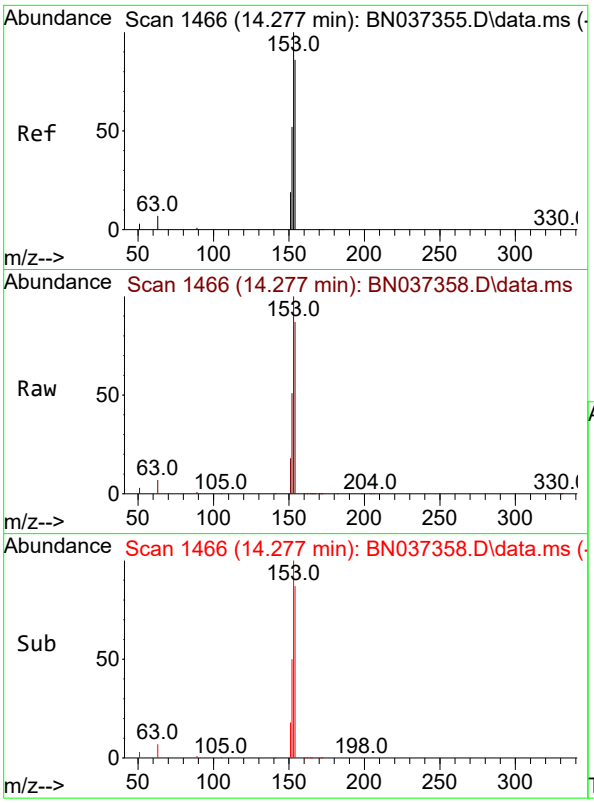


#16
Acenaphthylene
Concen: 3.272 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:152 Resp: 52599

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8
153	13.1	10.2	15.2



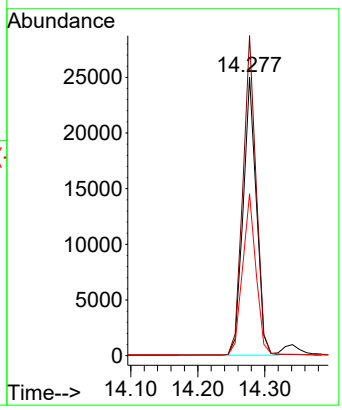


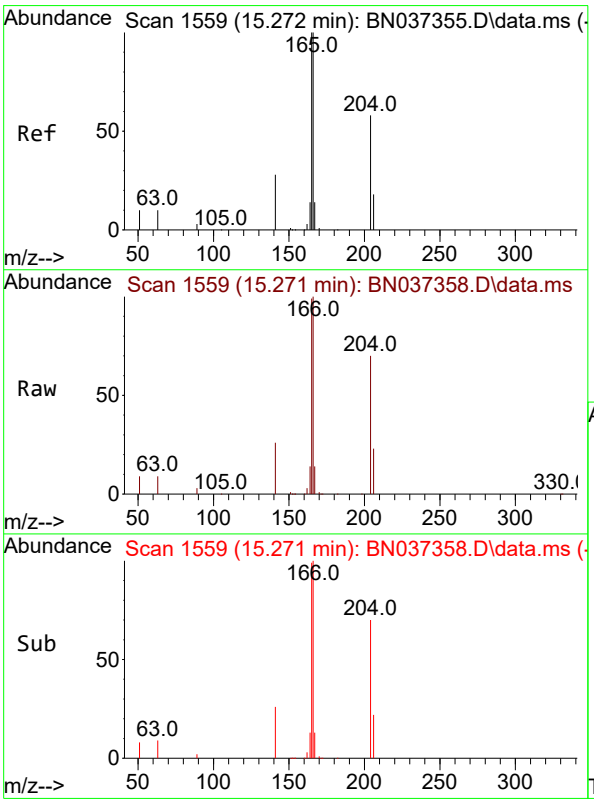
#17
Acenaphthene
Concen: 3.229 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 34413

Ion	Ratio	Lower	Upper
154	100		
153	114.5	93.1	139.7
152	58.7	48.6	73.0

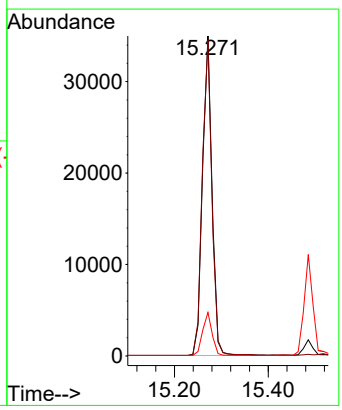


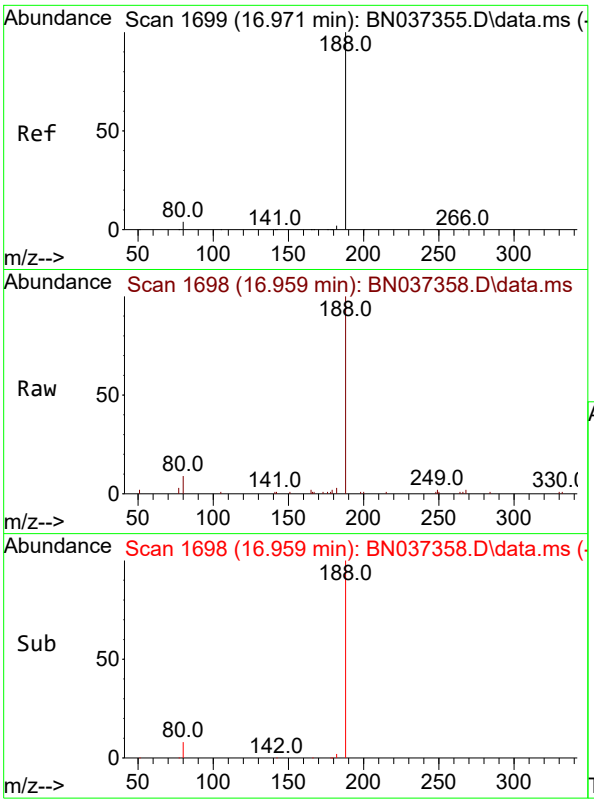


#18
Fluorene
Concen: 3.256 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:166 Resp: 49180

Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.5	119.3
167	13.5	10.7	16.1



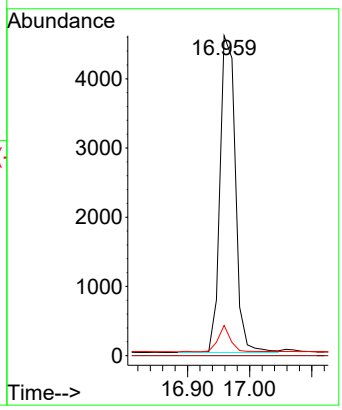


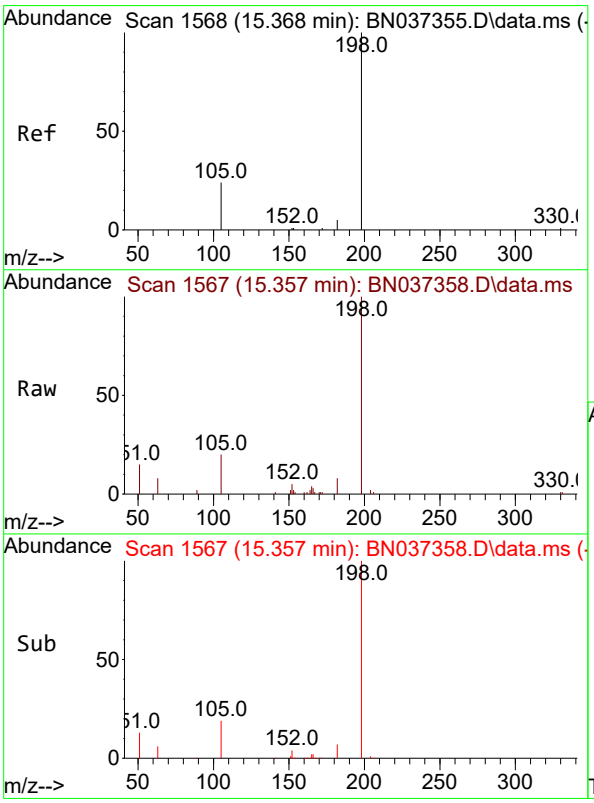
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 7833

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	6.2	9.2#

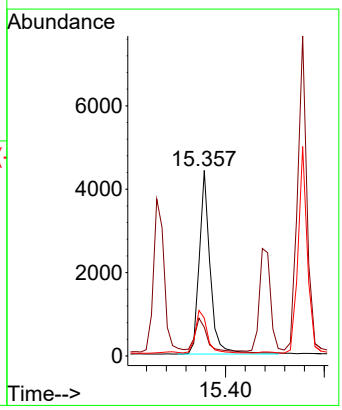


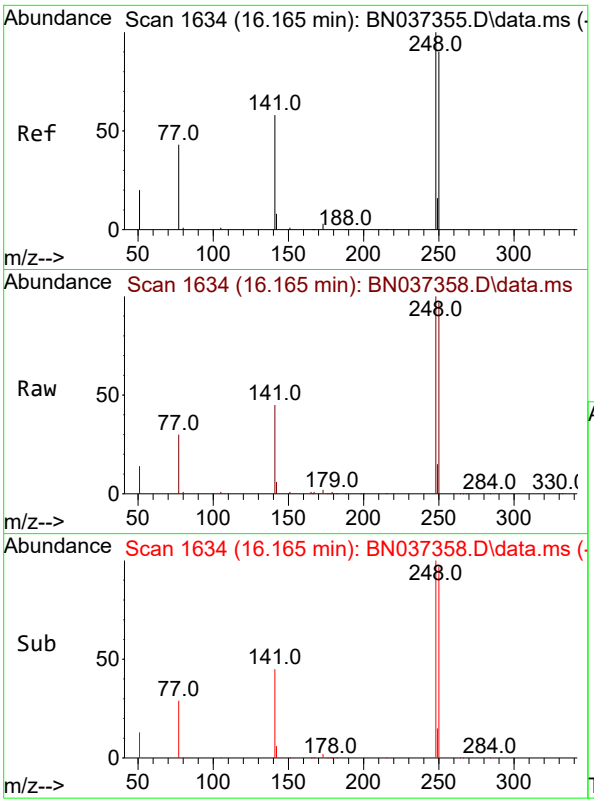


#20
4,6-Dinitro-2-methylphenol
Concen: 2.838 ng
RT: 15.357 min Scan# 1567
Delta R.T. -0.011 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:198 Resp: 6721

Ion	Ratio	Lower	Upper
198	100		
51	15.4	51.4	77.0#
105	20.5	45.5	68.3#



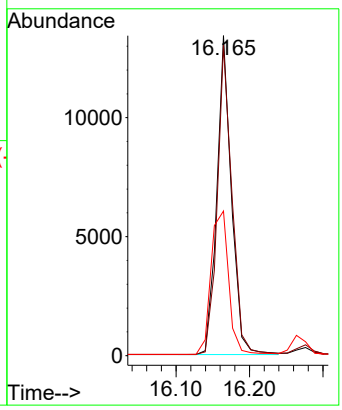


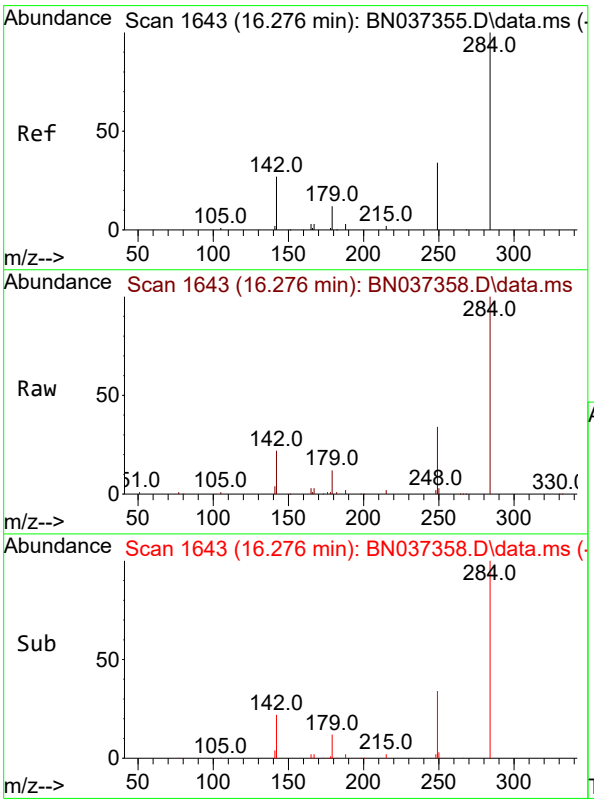
#21
4-Bromophenyl-phenylether
Concen: 2.891 ng
RT: 16.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 18488

Ion	Ratio	Lower	Upper
248	100		
250	96.9	80.4	120.6
141	45.2	33.3	49.9

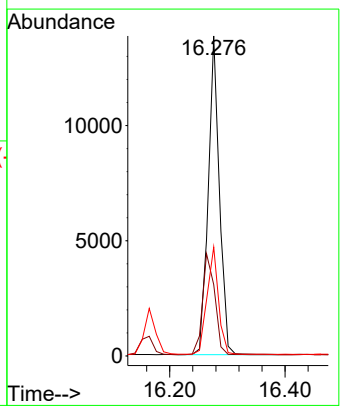


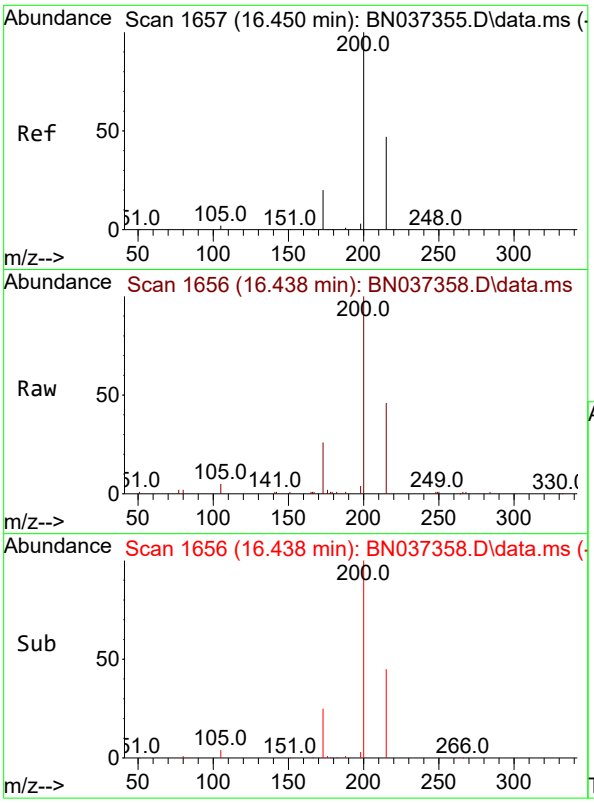


#22
Hexachlorobenzene
Concen: 2.784 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:284 Resp: 18573

Ion	Ratio	Lower	Upper
284	100		
142	34.8	27.0	40.6
249	34.5	28.8	43.2



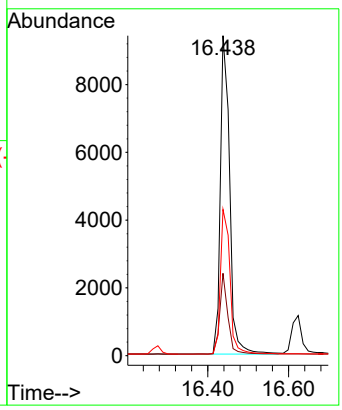


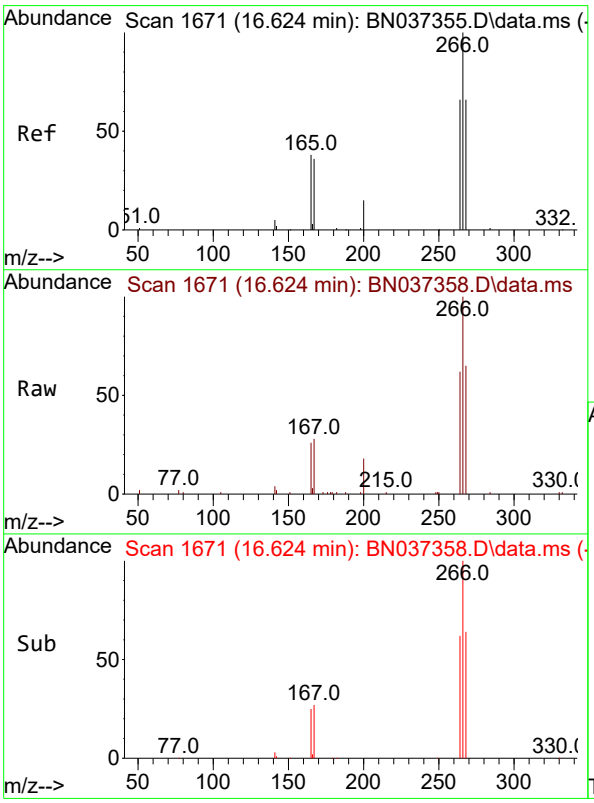
#23
Atrazine
Concen: 2.988 ng
RT: 16.438 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 14961

Ion	Ratio	Lower	Upper
200	100		
173	25.8	29.2	43.8#
215	45.7	48.8	73.2#

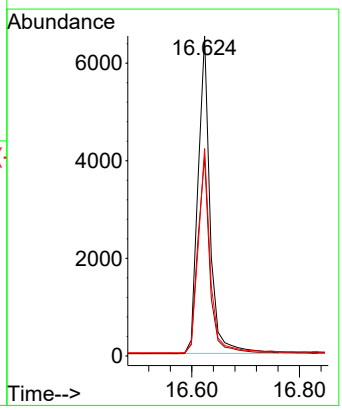


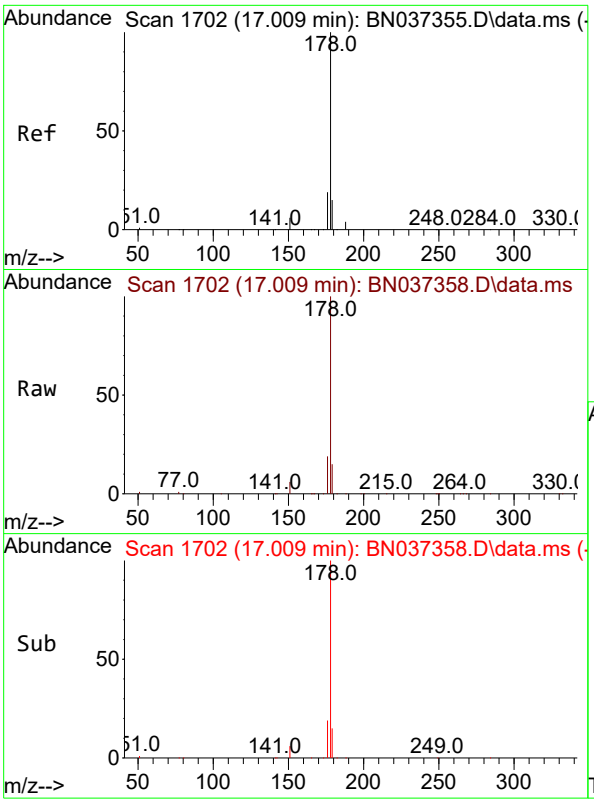


#24
Pentachlorophenol
Concen: 2.761 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:266 Resp: 10110

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.3	75.5
268	64.4	55.3	82.9



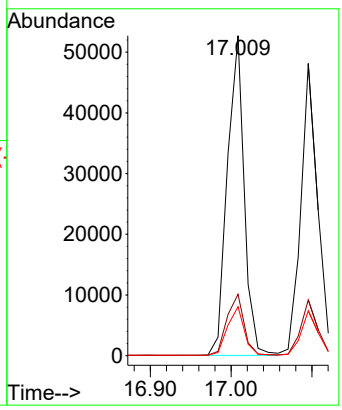


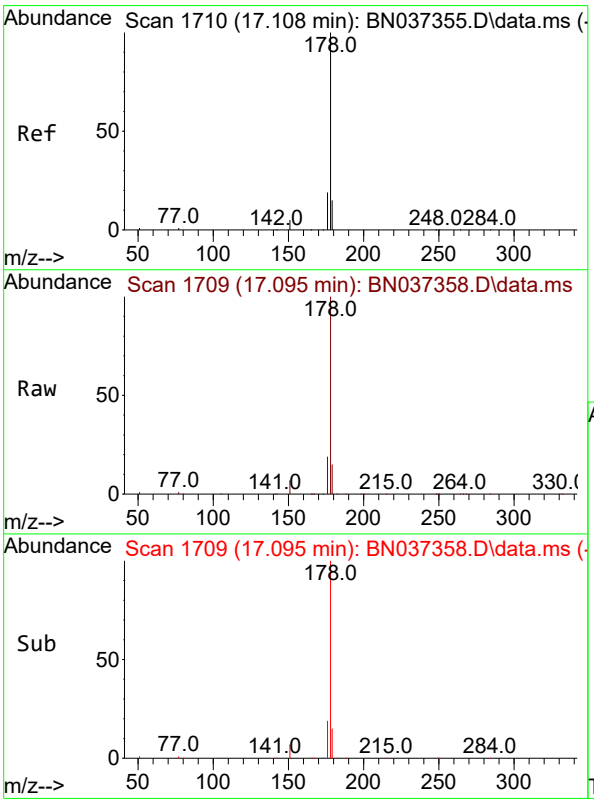
#25
Phenanthrene
Concen: 3.455 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 76487

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.2	22.8
179	15.2	12.9	19.3

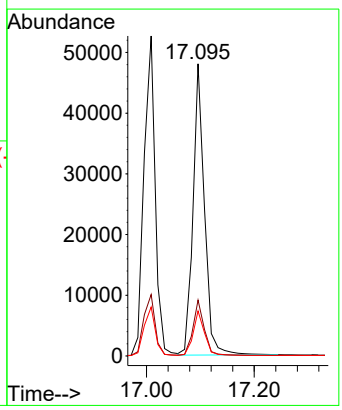


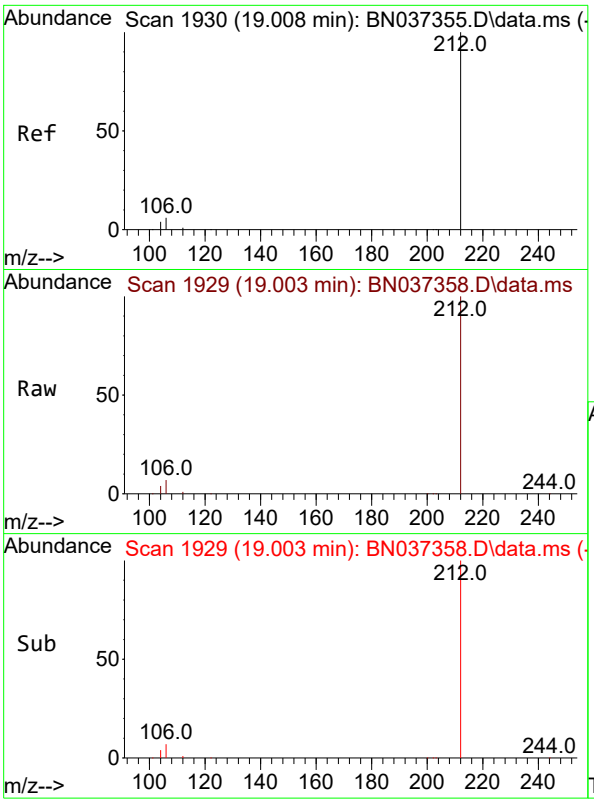


#26
Anthracene
Concen: 3.446 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:178 Resp: 71218

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.7	22.1
179	15.3	13.0	19.6



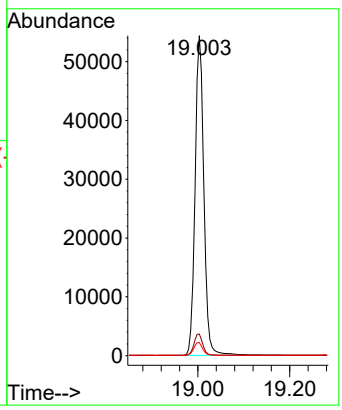


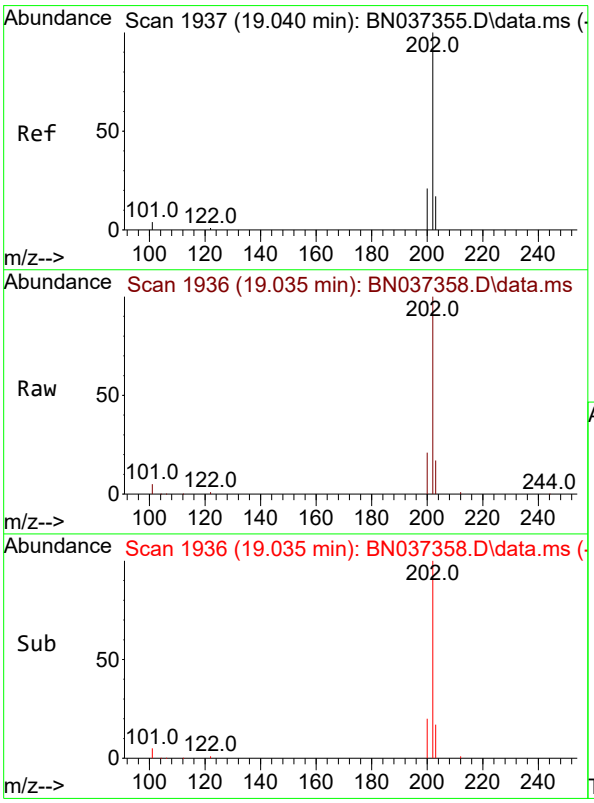
#27
Fluoranthene-d10
Concen: 2.957 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 72122

Ion	Ratio	Lower	Upper
212	100		
106	6.8	3.0	4.4#
104	4.1	2.0	3.0#

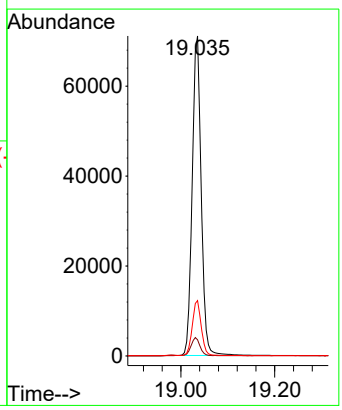


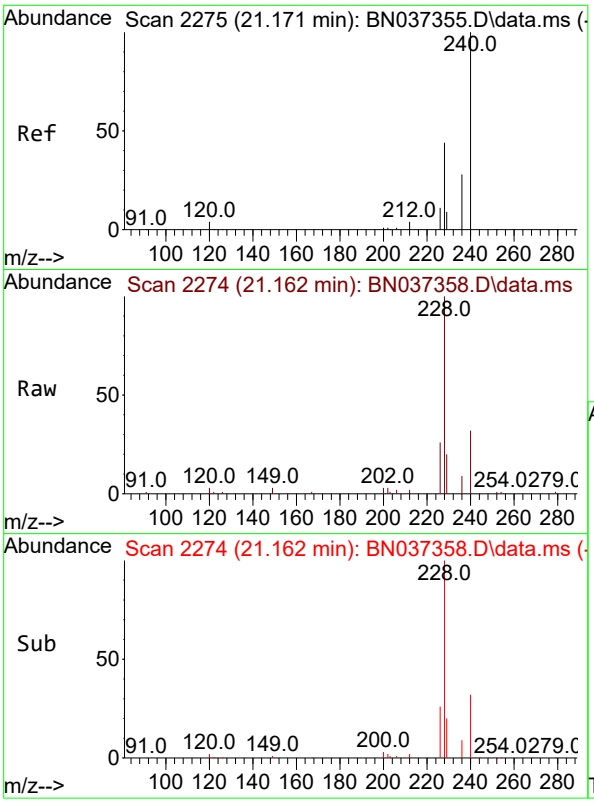


#28
Fluoranthene
Concen: 3.129 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:202 Resp: 94745

Ion	Ratio	Lower	Upper
202	100		
101	5.9	3.0	4.6#
203	17.0	13.7	20.5



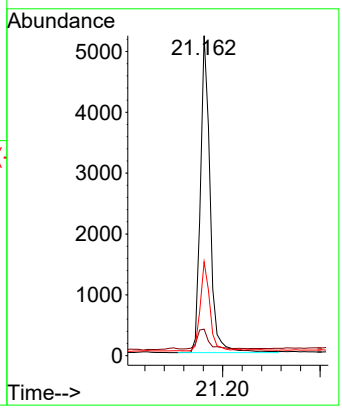


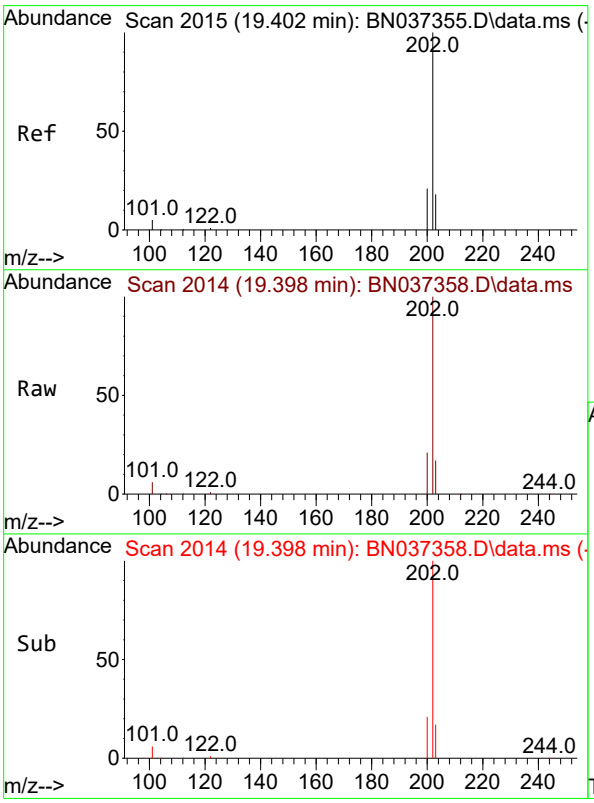
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 7155

Ion	Ratio	Lower	Upper
240	100		
120	8.3	7.5	11.3
236	29.3	24.9	37.3

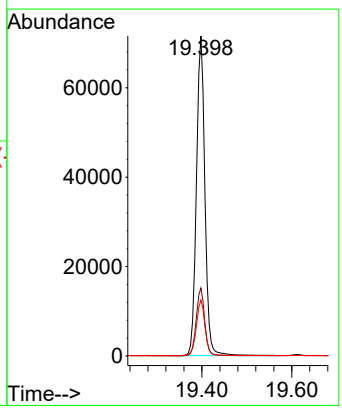


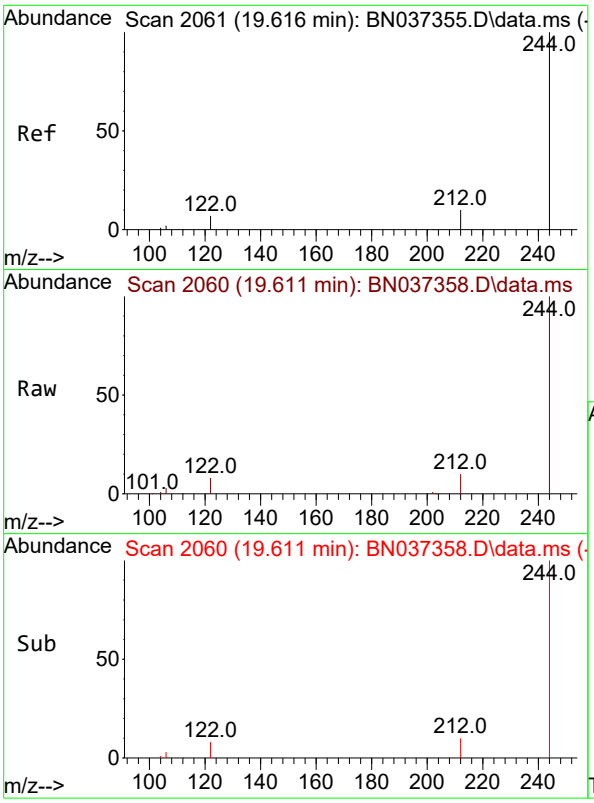


#30
Pyrene
Concen: 3.430 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:202 Resp: 93984

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.8	14.5	21.7



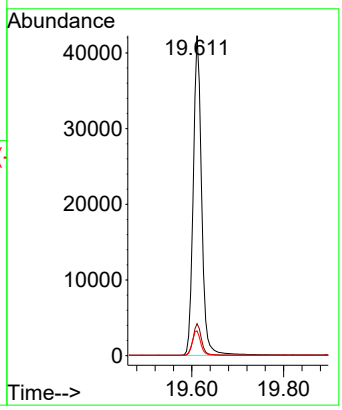


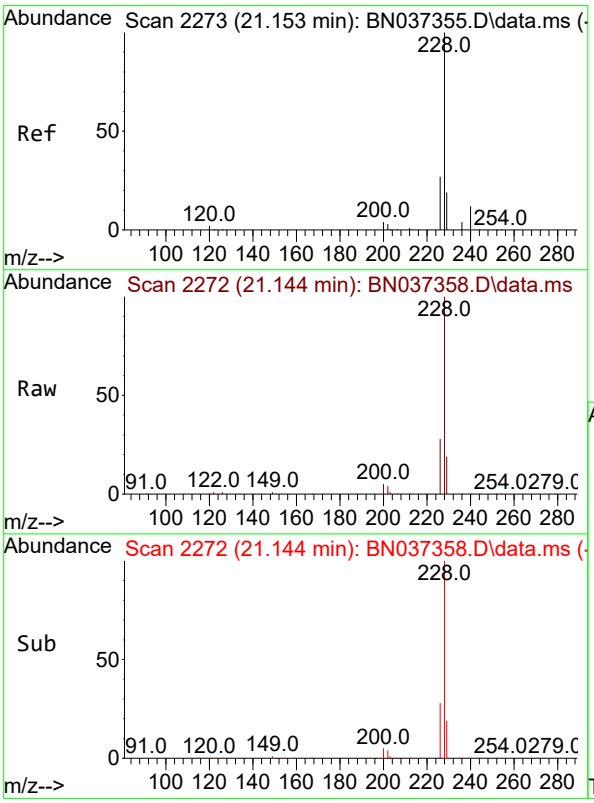
#31
Terphenyl-d14
Concen: 3.277 ng
RT: 19.611 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 53536

Ion	Ratio	Lower	Upper
244	100		
212	10.0	11.1	16.7#
122	7.7	7.2	10.8

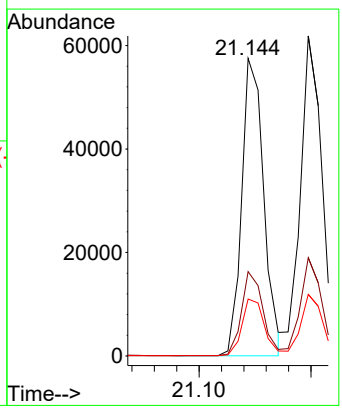


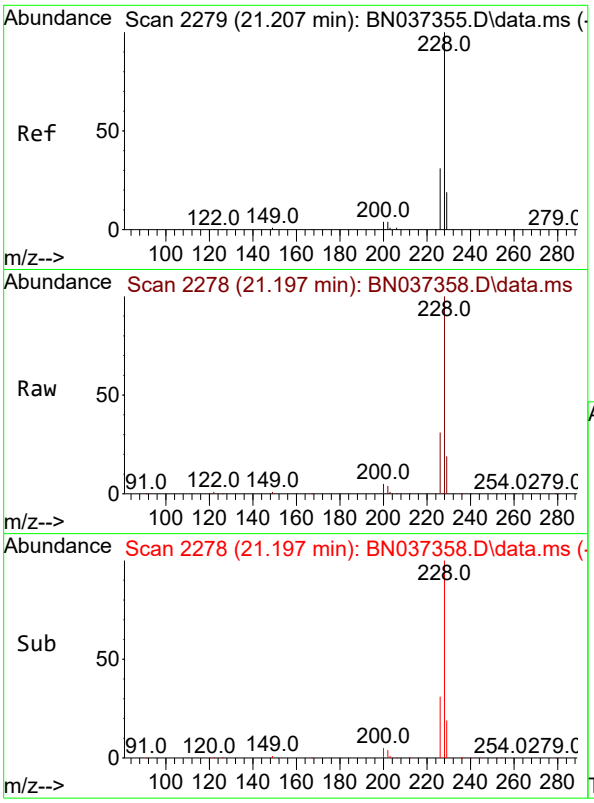


#32
Benzo(a)anthracene
Concen: 3.401 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:228 Resp: 78532

Ion	Ratio	Lower	Upper
228	100		
226	28.4	23.0	34.4
229	19.1	17.4	26.0



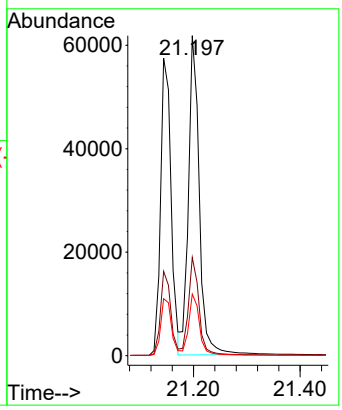


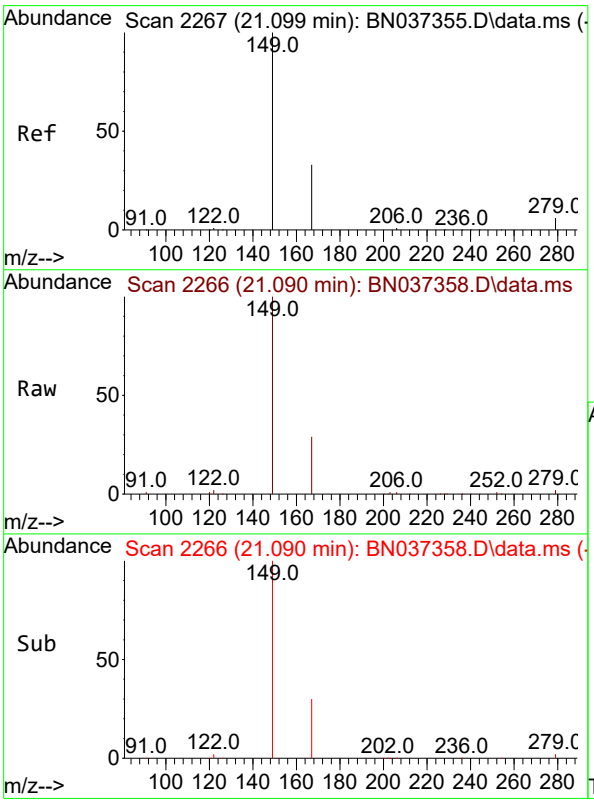
#33
Chrysene
Concen: 2.987 ng
RT: 21.197 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 87474

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.4	38.2
229	19.3	17.3	25.9

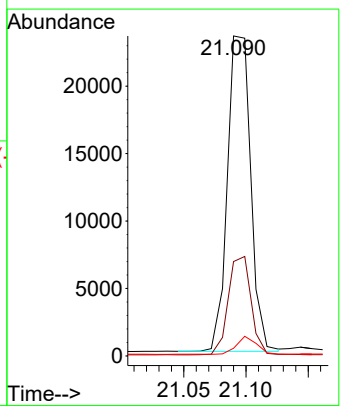


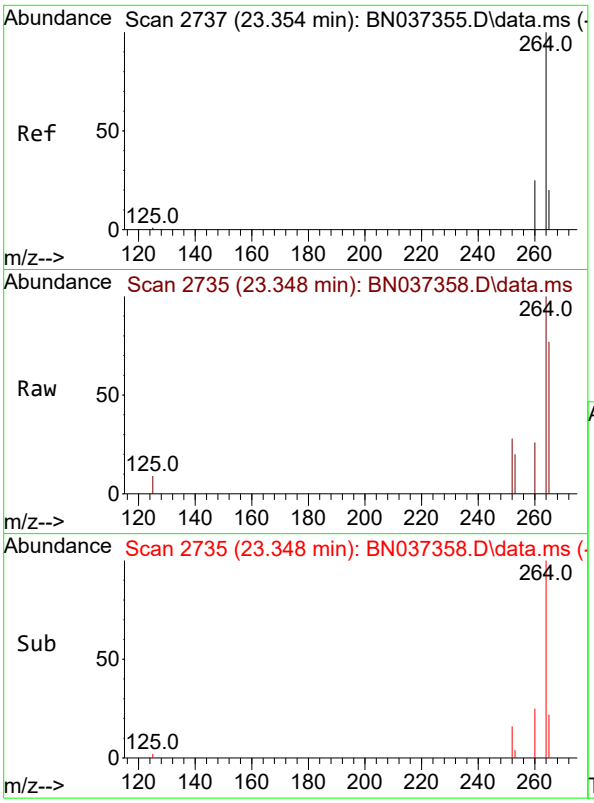


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.214 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:149 Resp: 30412

Ion	Ratio	Lower	Upper
149	100		
167	30.6	24.6	37.0
279	5.0	6.5	9.7#



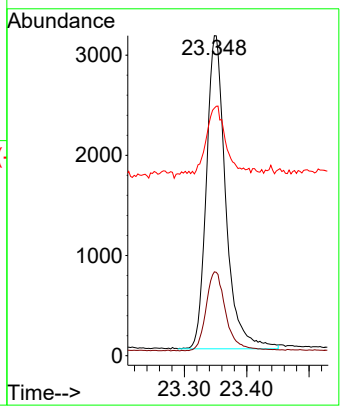


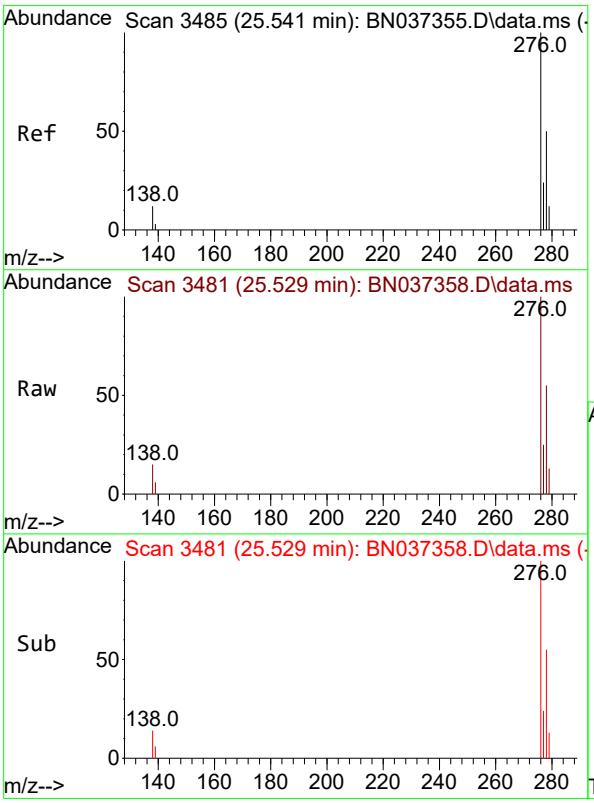
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 6736

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	77.3	71.4	107.0

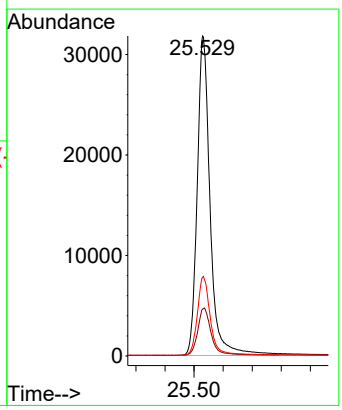


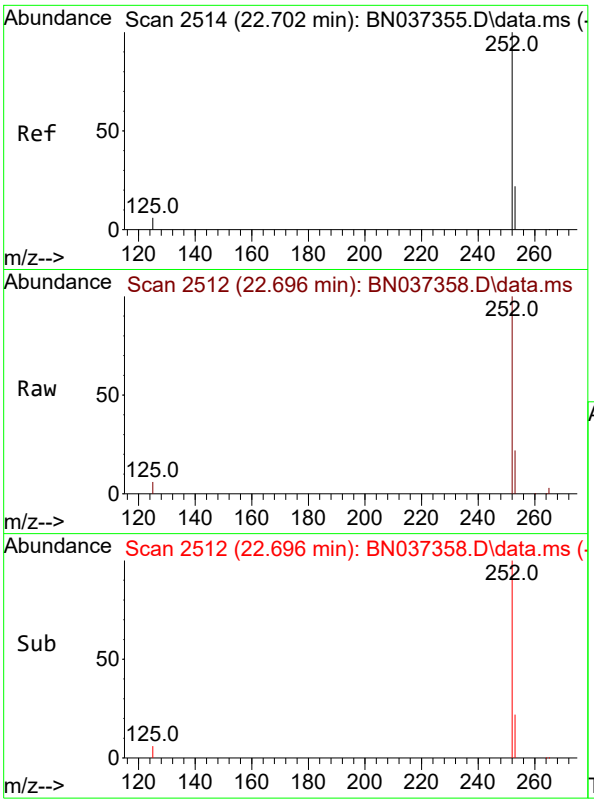


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.433 ng
RT: 25.529 min Scan# 3481
Delta R.T. -0.012 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:276 Resp: 98025

Ion	Ratio	Lower	Upper
276	100		
138	15.2	2.2	3.2#
277	24.7	17.1	25.7



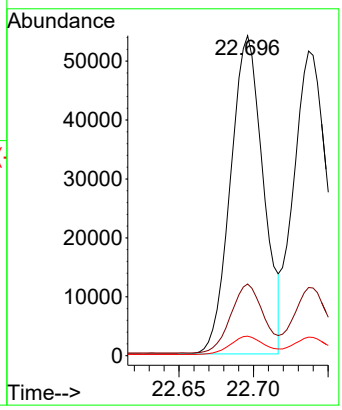


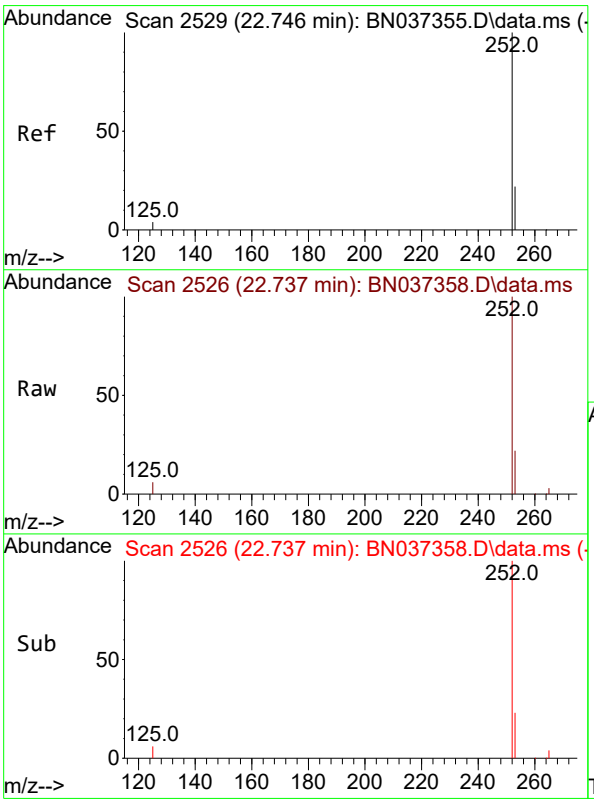
#37
Benzo(b)fluoranthene
Concen: 3.456 ng
RT: 22.696 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 82568

Ion	Ratio	Lower	Upper
252	100		
253	22.4	26.6	40.0#
125	6.1	6.1	9.1

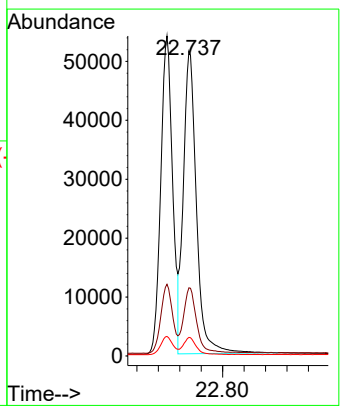


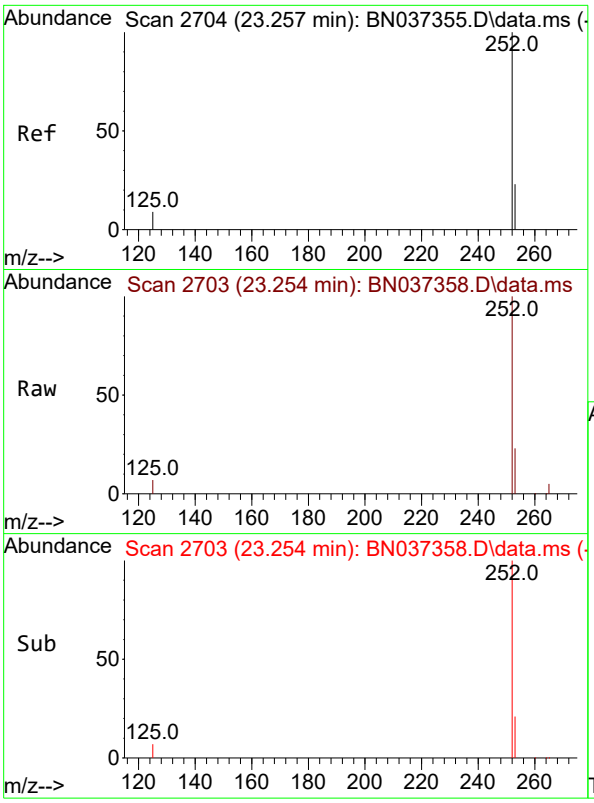


#38
Benzo(k)fluoranthene
Concen: 3.359 ng
RT: 22.737 min Scan# 2526
Delta R.T. -0.009 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:252 Resp: 87144

Ion	Ratio	Lower	Upper
252	100		
253	22.4	26.7	40.1#
125	6.1	6.5	9.7#



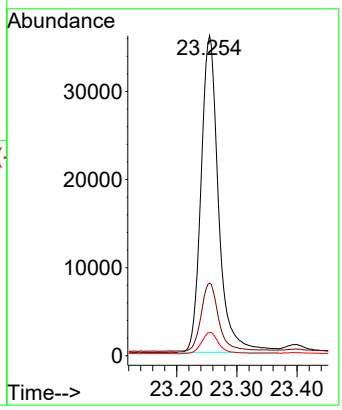


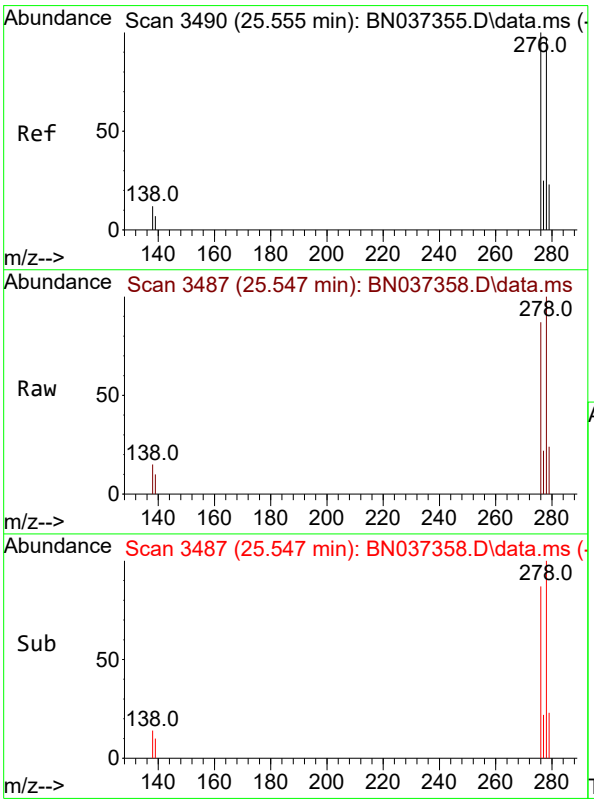
#39
Benzo(a)pyrene
Concen: 3.323 ng
RT: 23.254 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 72643

Ion	Ratio	Lower	Upper
252	100		
253	22.7	31.6	47.4#
125	7.2	8.4	12.6#

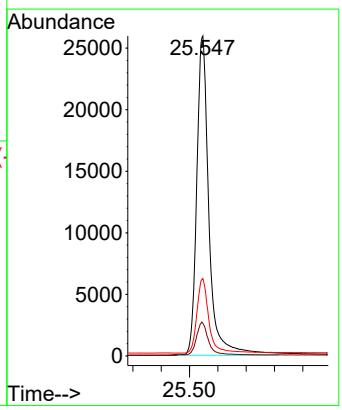


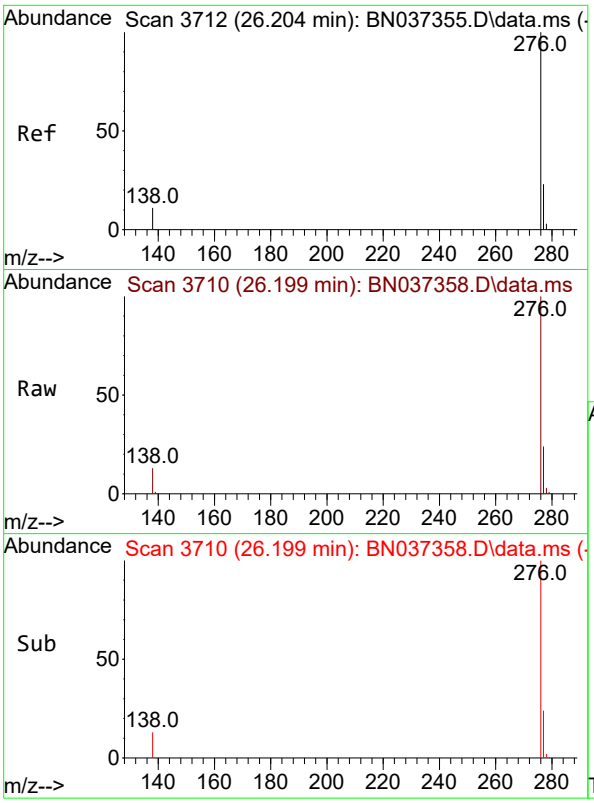


#40
Dibenzo(a,h)anthracene
Concen: 3.426 ng
RT: 25.547 min Scan# 3487
Delta R.T. -0.009 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:278 Resp: 77899

Ion	Ratio	Lower	Upper
278	100		
139	10.2	10.2	15.4#
279	24.2	35.6	53.4#



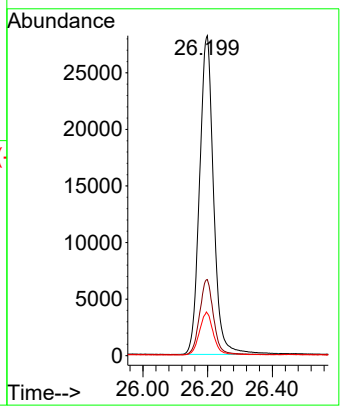


#41
Benzo(g,h,i)perylene
Concen: 3.239 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 84957

Ion	Ratio	Lower	Upper
276	100		
277	23.8	22.7	34.1
138	13.3	9.4	14.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037359.D
Acq On : 20 Jun 2025 20:27
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 20 23:28:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	3043	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	6418	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	4465	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	9254	0.400	ng	#	-0.01
29) Chrysene-d12	21.162	240	8543	0.400	ng		0.00
35) Perylene-d12	23.354	264	7704	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	29312	5.270	ng		0.00
5) Phenol-d6	6.744	99	34073	6.190	ng		0.00
8) Nitrobenzene-d5	8.707	82	28934	5.432	ng		-0.01
11) 2-Methylnaphthalene-d10	11.940	152	54112	5.210	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	13707	4.292	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	99254	5.067	ng		0.00
27) Fluoranthene-d10	19.003	212	133941	4.649	ng		0.00
31) Terphenyl-d14	19.611	244	98354	5.042	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.097	88	13159	4.896	ng		90
3) n-Nitrosodimethylamine	3.408	42	12840	4.103	ng	#	68
6) bis(2-Chloroethyl)ether	6.997	93	30083	6.246	ng		97
9) Naphthalene	10.394	128	85311	5.128	ng	#	86
10) Hexachlorobutadiene	10.682	225	30147	3.708	ng	#	99
12) 2-Methylnaphthalene	12.011	142	63177	5.400	ng	#	91
16) Acenaphthylene	13.935	152	99681	5.319	ng		98
17) Acenaphthene	14.277	154	64734	5.211	ng		98
18) Fluorene	15.271	166	92629	5.260	ng		99
20) 4,6-Dinitro-2-methylph...	15.357	198	13168	4.707	ng	#	44
21) 4-Bromophenyl-phenylether	16.165	248	34583	4.578	ng		94
22) Hexachlorobenzene	16.276	284	33797	4.288	ng		98
23) Atrazine	16.438	200	27492	4.648	ng	#	81
24) Pentachlorophenol	16.624	266	19702	4.555	ng		97
25) Phenanthrene	17.009	178	141308	5.404	ng		99
26) Anthracene	17.095	178	135503	5.549	ng		99
28) Fluoranthene	19.035	202	175639	4.910	ng	#	98
30) Pyrene	19.398	202	175487	5.364	ng		99
32) Benzo(a)anthracene	21.153	228	152551	5.534	ng		97
33) Chrysene	21.206	228	159633	4.566	ng		96
34) Bis(2-ethylhexyl)phtha...	21.099	149	59151	5.235	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.535	276	178739	5.473	ng	#	89
37) Benzo(b)fluoranthene	22.699	252	152855	5.595	ng	#	83
38) Benzo(k)fluoranthene	22.740	252	162397	5.473	ng	#	83
39) Benzo(a)pyrene	23.254	252	134379	5.375	ng	#	76
40) Dibenzo(a,h)anthracene	25.549	278	142364	5.474	ng	#	74
41) Benzo(g,h,i)perylene	26.199	276	153920	5.131	ng		92

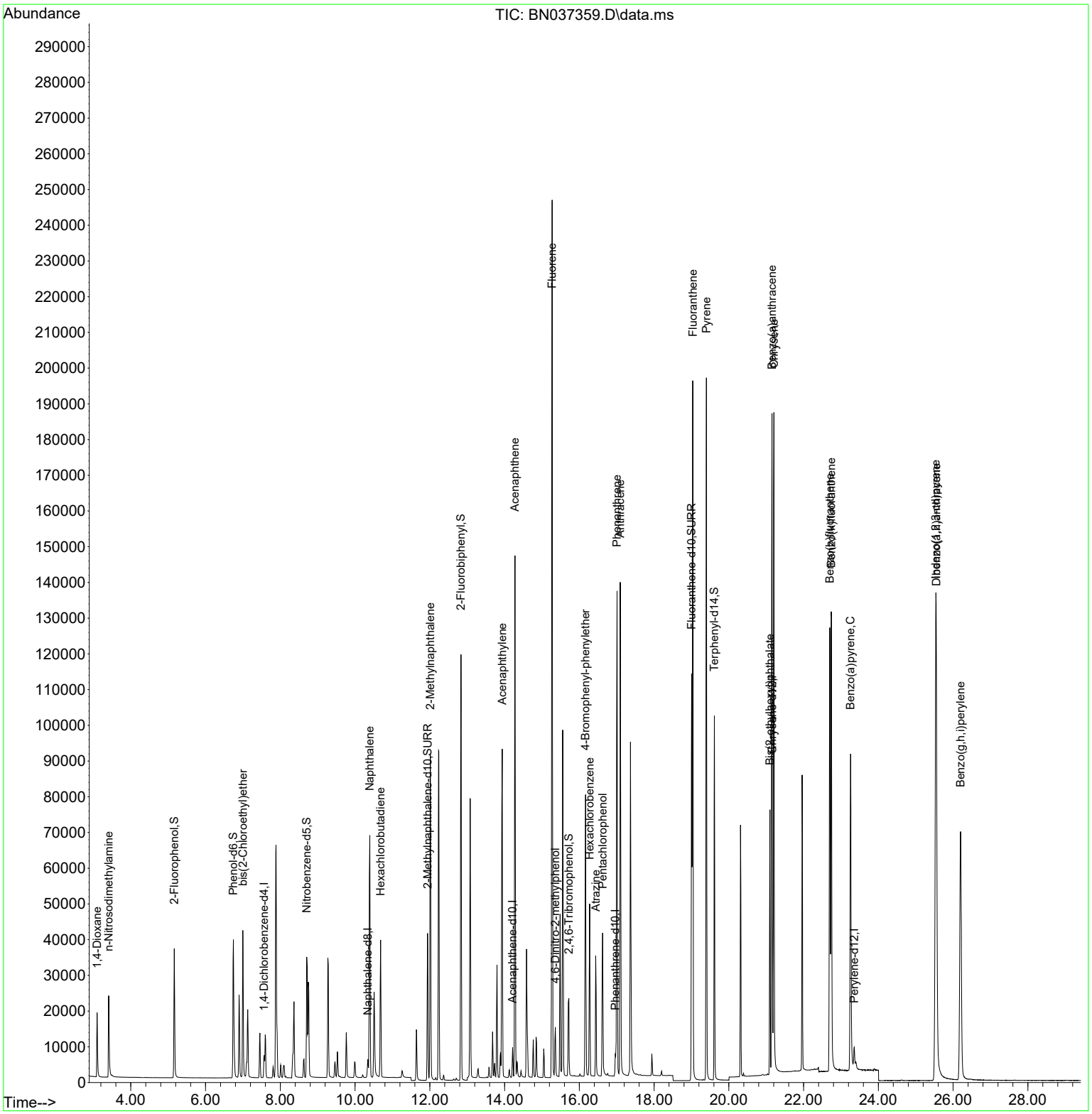
(#) = qualifier out of range (m) = manual integration (+) = signals summed

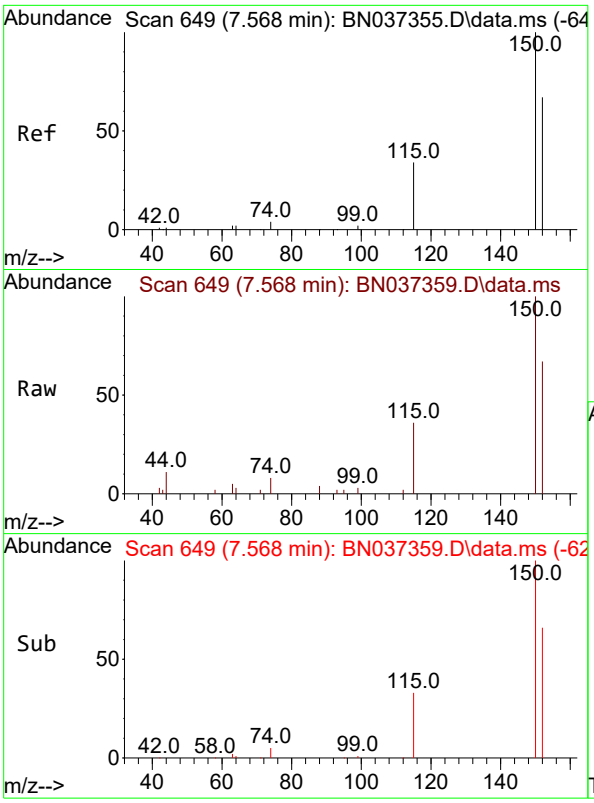
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037359.D
Acq On : 20 Jun 2025 20:27
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 20 23:28:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



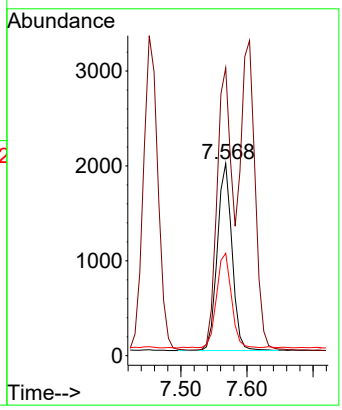


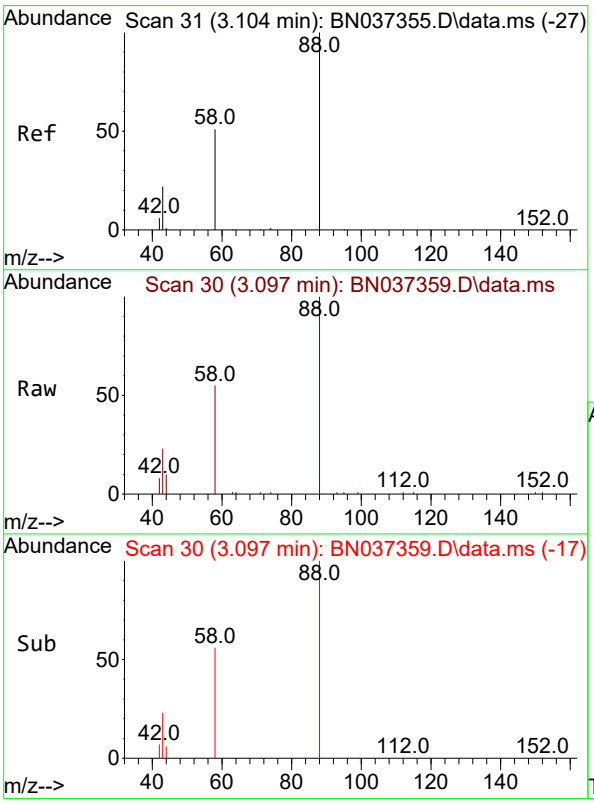
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 3043

Ion	Ratio	Lower	Upper
152	100		
150	149.8	112.7	169.1
115	53.3	45.9	68.9

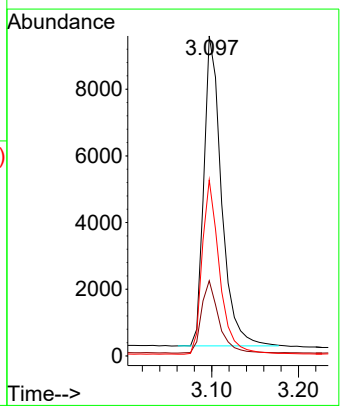


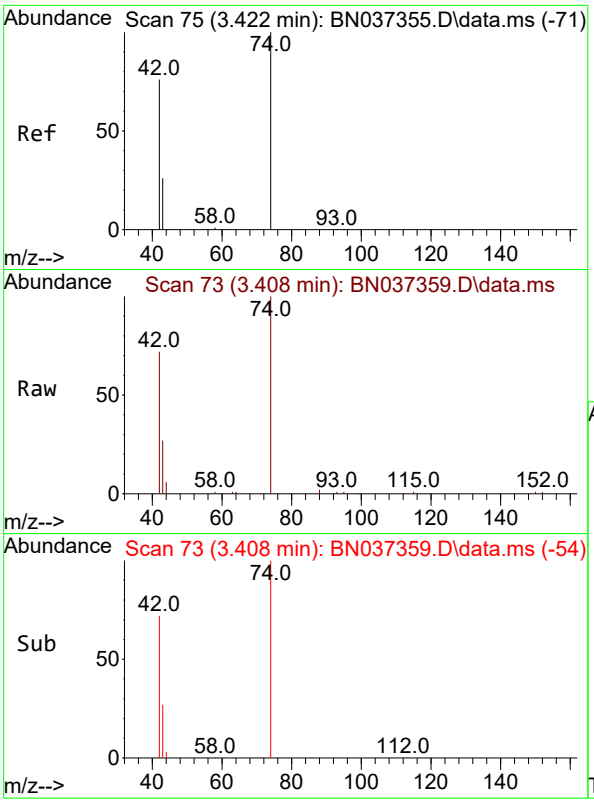


#2
1,4-Dioxane
Concen: 4.896 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 88 Resp: 13159

Ion	Ratio	Lower	Upper
88	100		
43	22.8	21.0	31.6
58	55.2	38.0	57.0



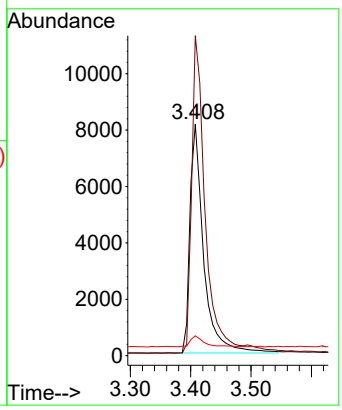


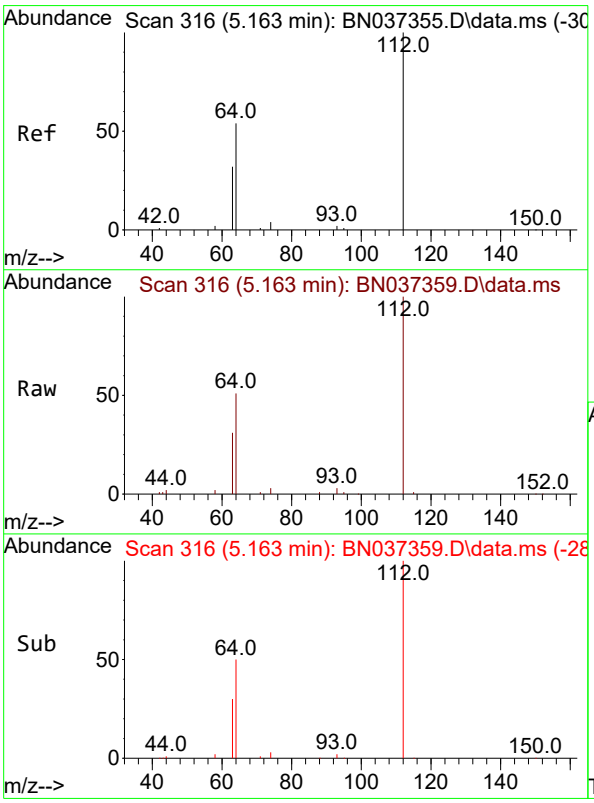
#3
n-Nitrosodimethylamine
Concen: 4.103 ng
RT: 3.408 min Scan# 7
Delta R.T. -0.015 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 12840

Ion	Ratio	Lower	Upper
42	100		
74	139.7	84.3	126.5#
44	5.0	5.0	7.4

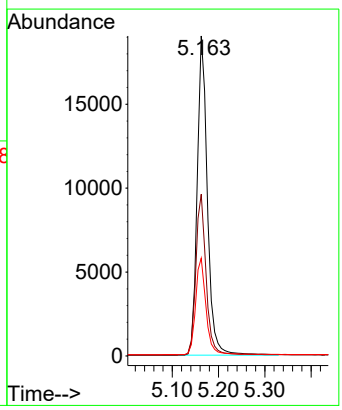


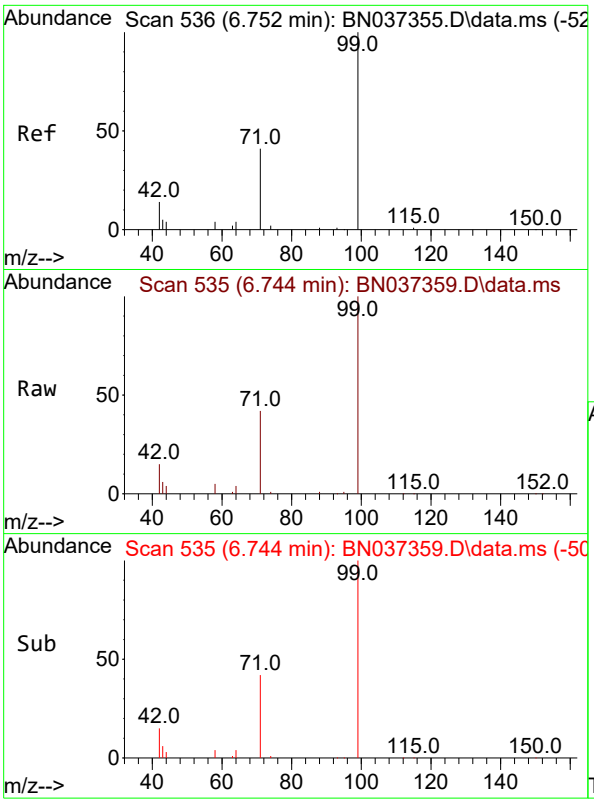


#4
2-Fluorophenol
Concen: 5.270 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:112 Resp: 29312

Ion	Ratio	Lower	Upper
112	100		
64	50.9	38.7	58.1
63	30.9	26.4	39.6



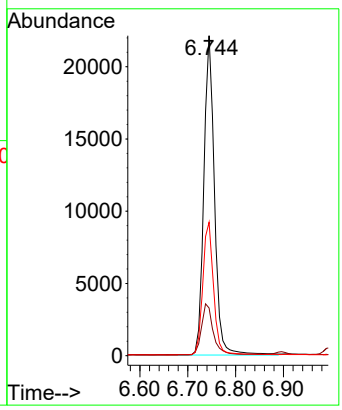


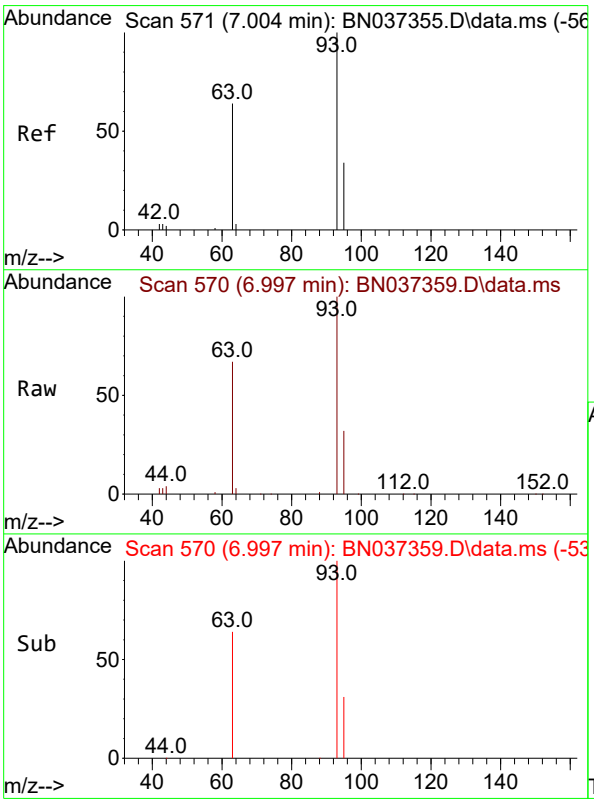
#5
Phenol-d6
Concen: 6.190 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 34073

Ion	Ratio	Lower	Upper
99	100		
42	17.4	19.8	29.8#
71	42.6	42.6	64.0#

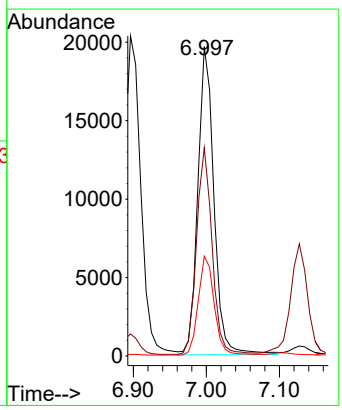


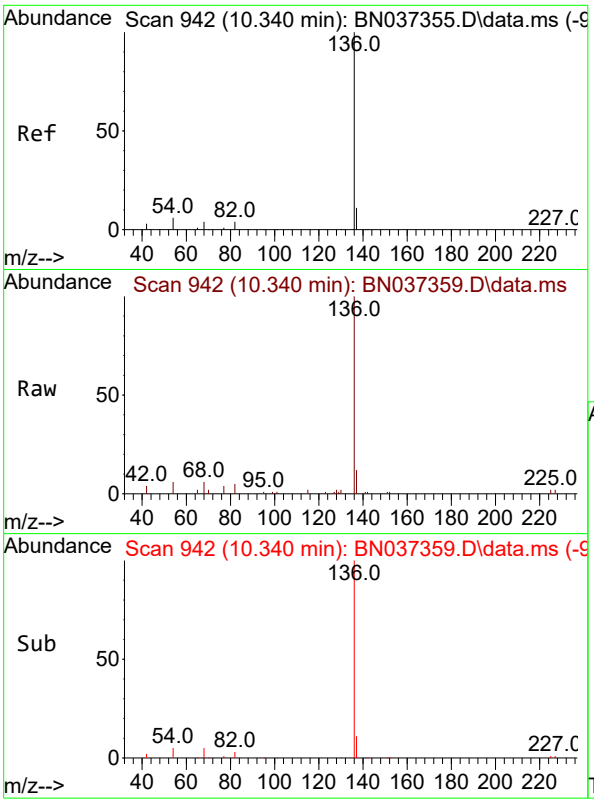


#6
bis(2-Chloroethyl)ether
Concen: 6.246 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 93 Resp: 30083

Ion	Ratio	Lower	Upper
93	100		
63	64.8	53.2	79.8
95	31.7	27.3	40.9



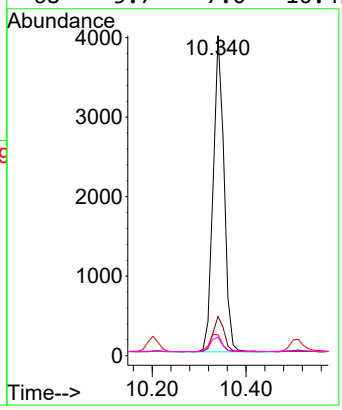


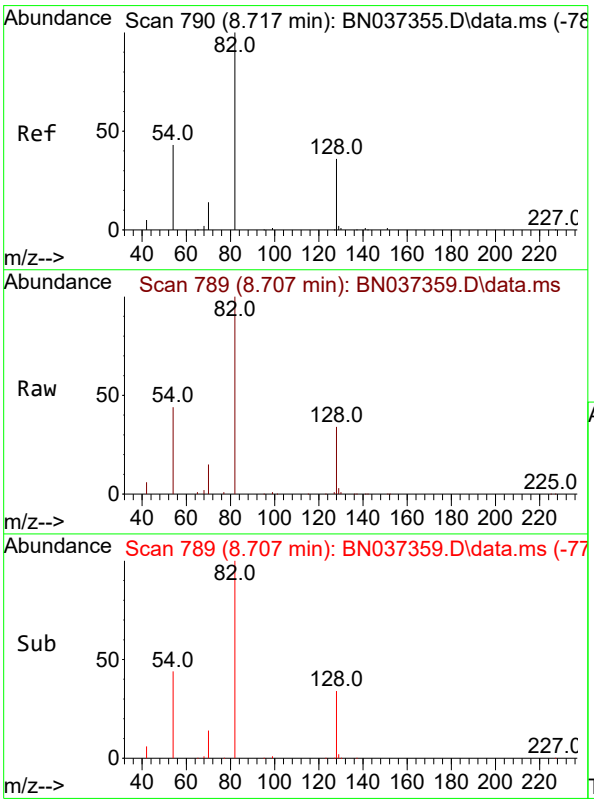
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 6418

Ion	Ratio	Lower	Upper
136	100		
137	12.3	12.2	18.2
54	6.5	8.8	13.2#
68	5.7	7.0	10.4#

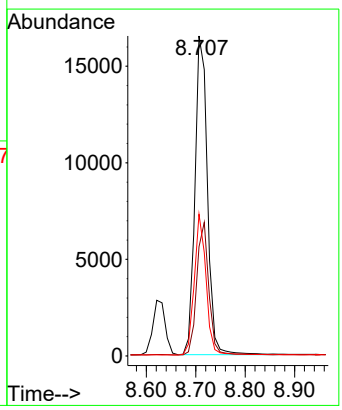


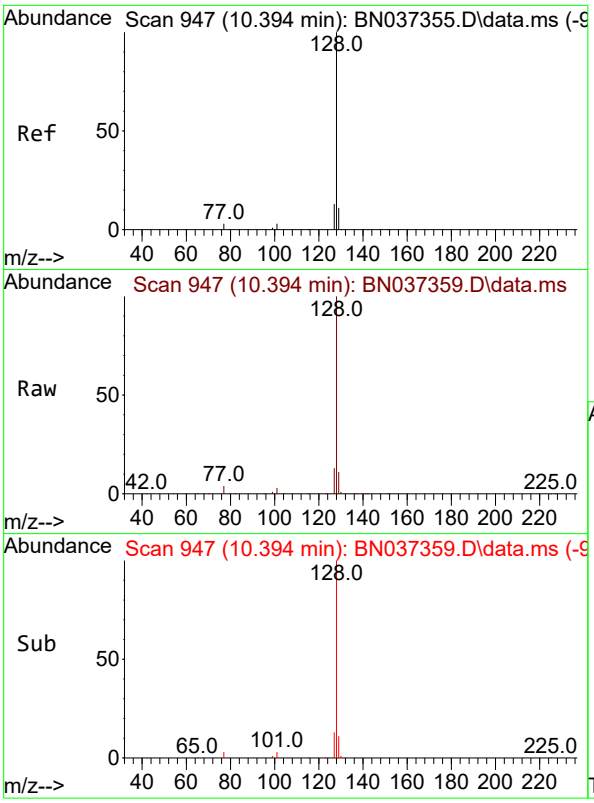


#8
Nitrobenzene-d5
Concen: 5.432 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 82 Resp: 28934

Ion	Ratio	Lower	Upper
82	100		
128	34.1	42.5	63.7#
54	44.3	43.2	64.8



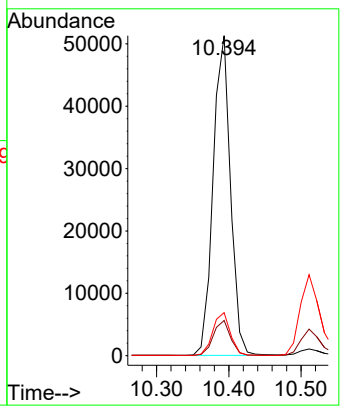


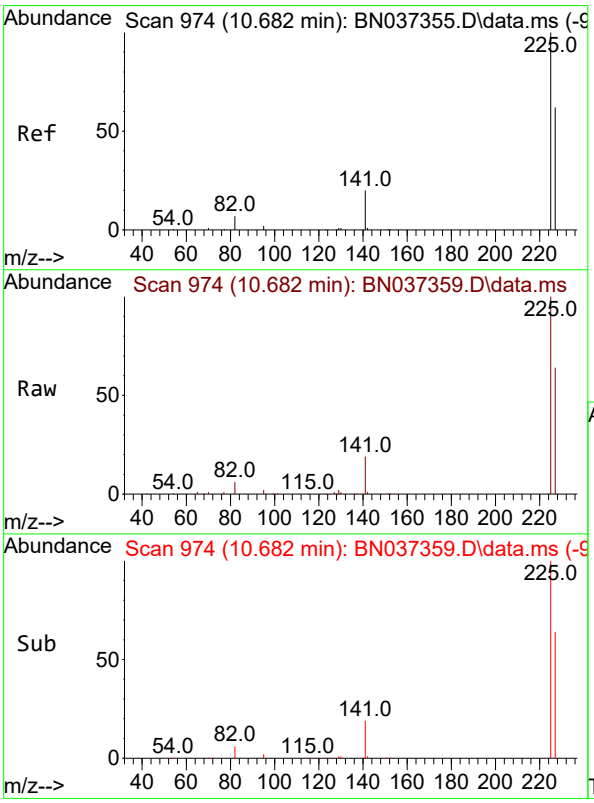
#9
Naphthalene
Concen: 5.128 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 85311

Ion	Ratio	Lower	Upper
128	100		
129	11.0	14.0	21.0#
127	13.5	15.8	23.8#

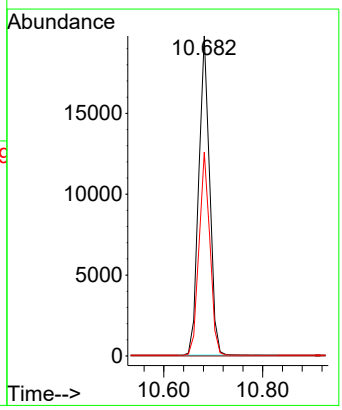


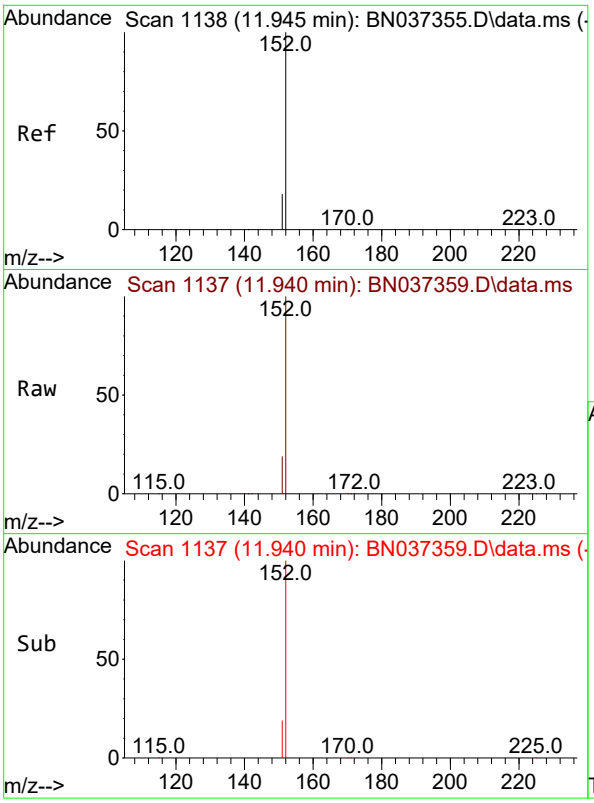


#10
Hexachlorobutadiene
Concen: 3.708 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:225 Resp: 30147

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.3	75.5



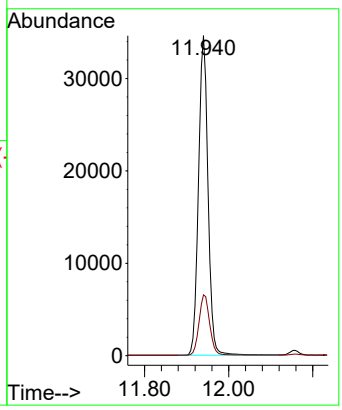


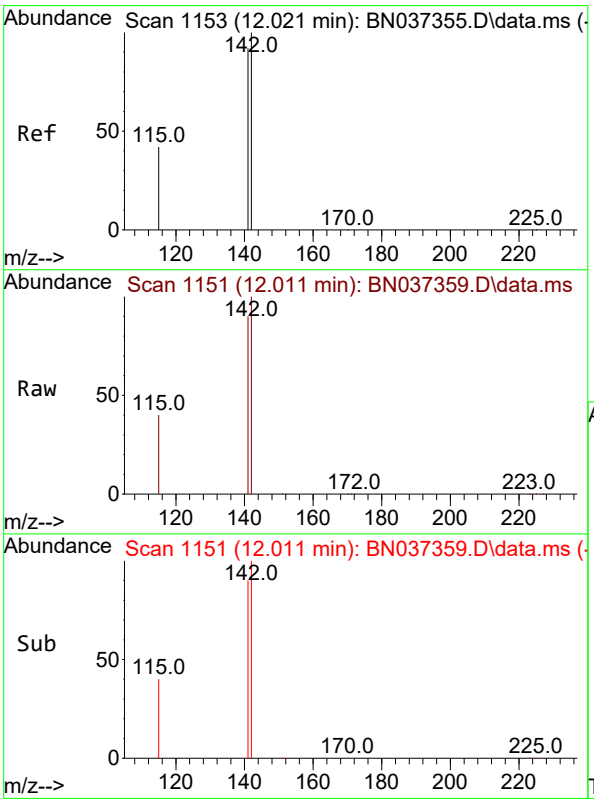
#11
2-Methylnaphthalene-d10
Concen: 5.210 ng
RT: 11.940 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 54112

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.4	26.0

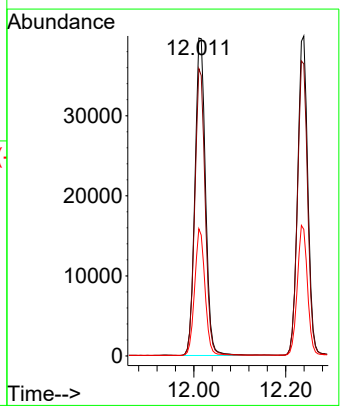


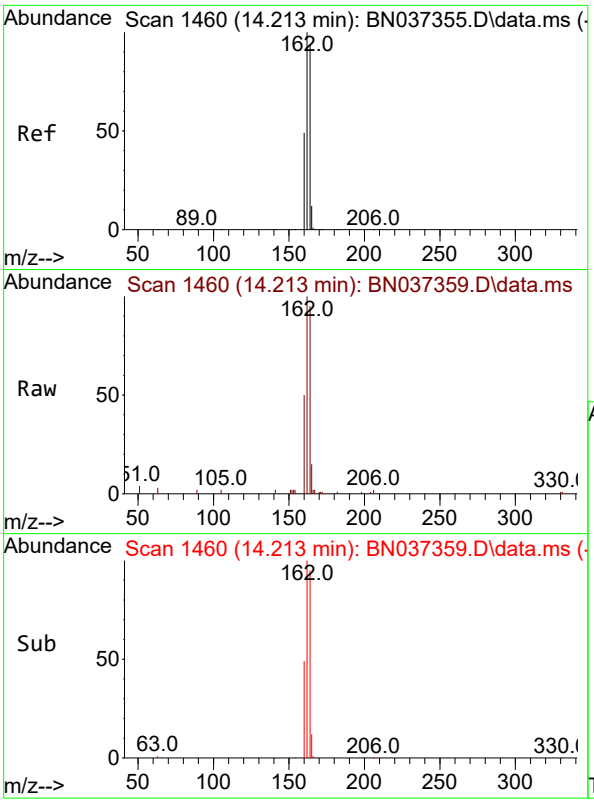


#12
2-Methylnaphthalene
Concen: 5.400 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:142 Resp: 63177

Ion	Ratio	Lower	Upper
142	100		
141	90.4	70.2	105.2
115	40.0	43.0	64.4#



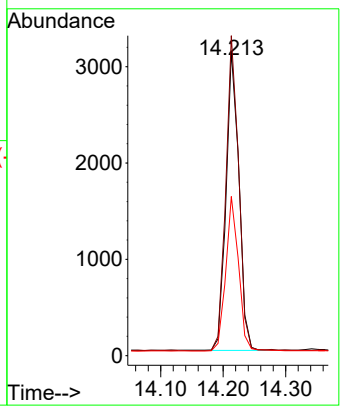


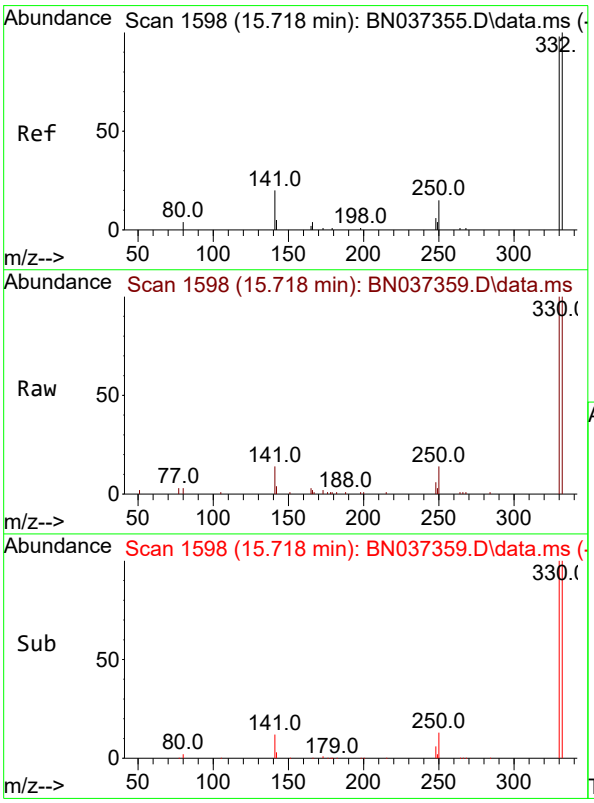
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4465

Ion	Ratio	Lower	Upper
164	100		
162	105.2	81.5	122.3
160	52.3	43.0	64.4

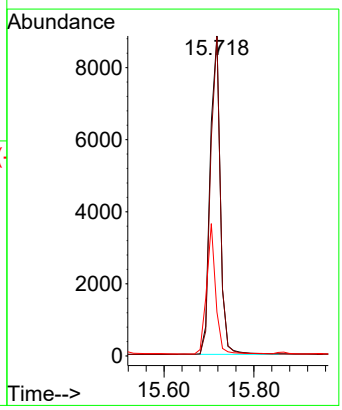


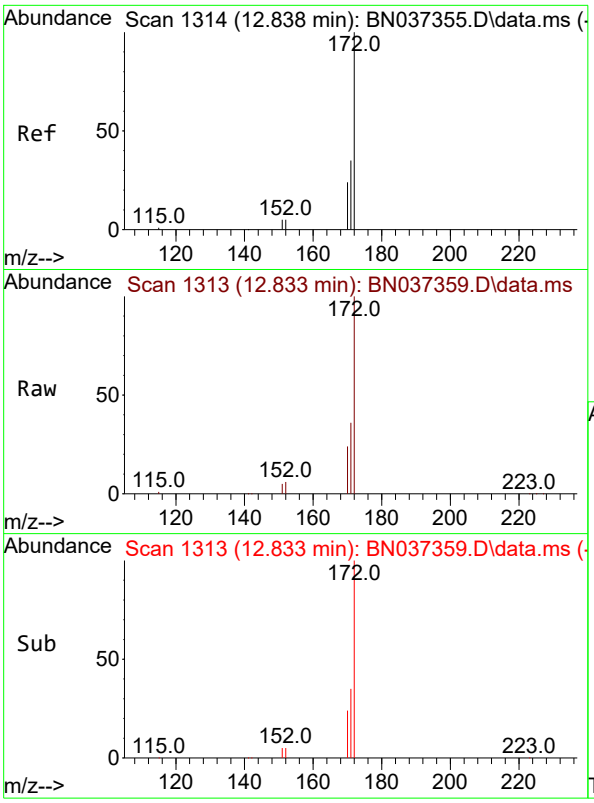


#14
2,4,6-Tribromophenol
Concen: 4.292 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:330 Resp: 13707

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.4	117.6
141	36.8	24.4	36.6#



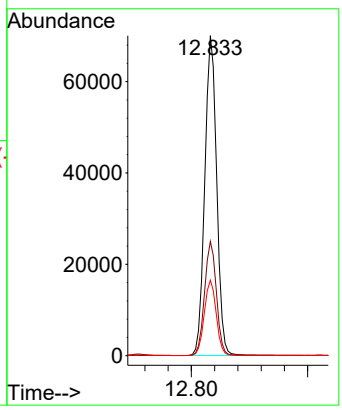


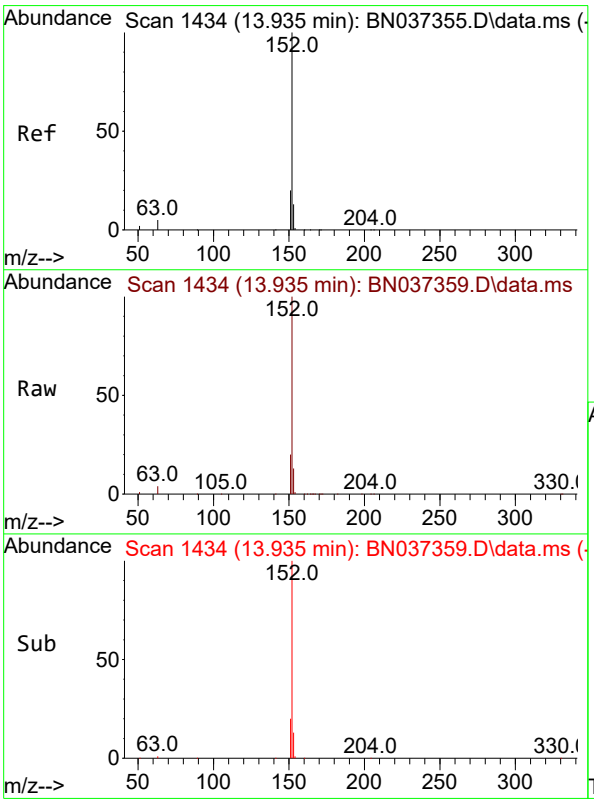
#15
2-Fluorobiphenyl
Concen: 5.067 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 99254

Ion	Ratio	Lower	Upper
172	100		
171	35.7	30.8	46.2
170	23.6	21.9	32.9

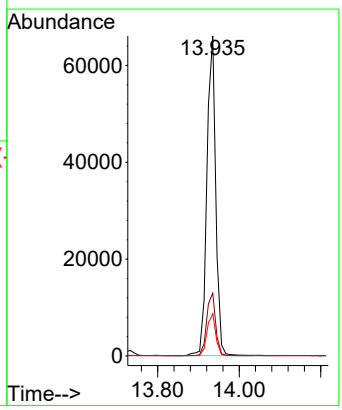


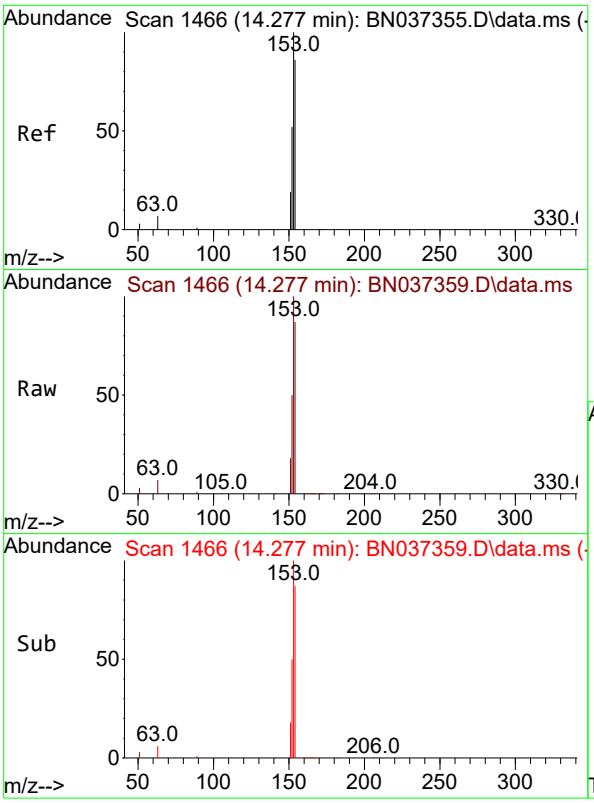


#16
Acenaphthylene
Concen: 5.319 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:152 Resp: 99681

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8
153	13.1	10.2	15.2



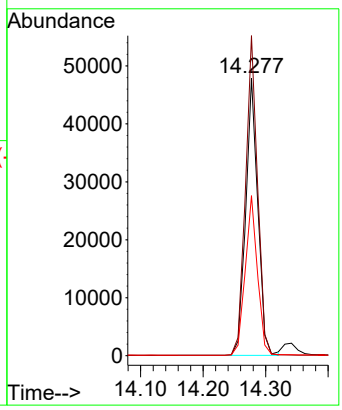


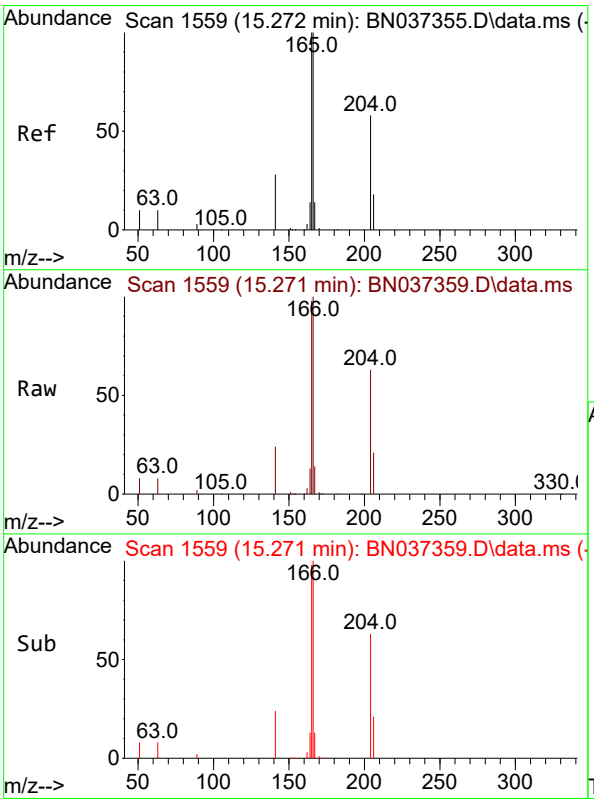
#17
Acenaphthene
Concen: 5.211 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 64734

Ion	Ratio	Lower	Upper
154	100		
153	115.1	93.1	139.7
152	58.2	48.6	73.0

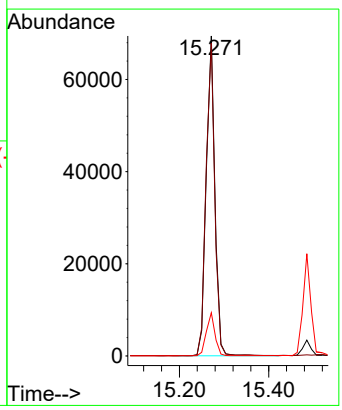


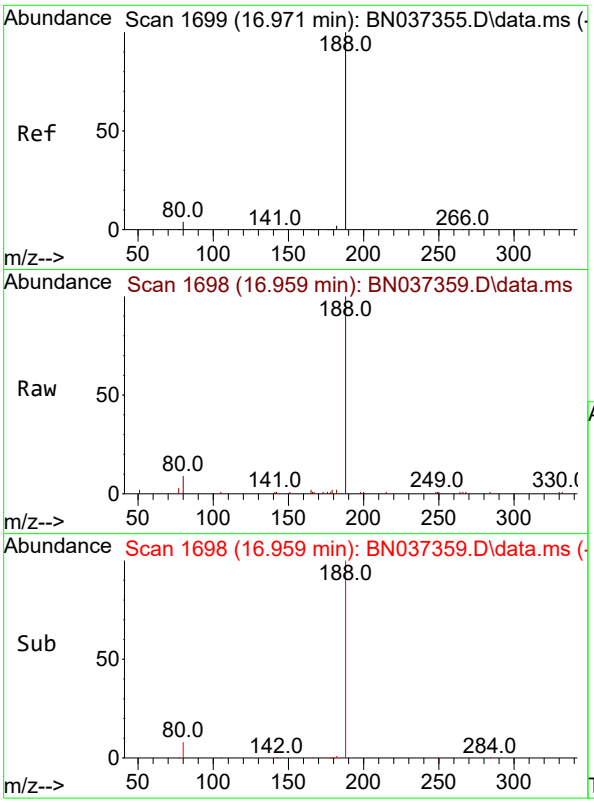


#18
Fluorene
Concen: 5.260 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:166 Resp: 92629

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.5	119.3
167	13.4	10.7	16.1



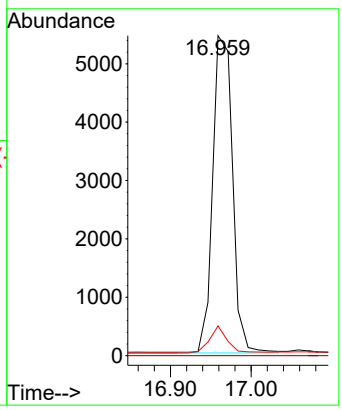


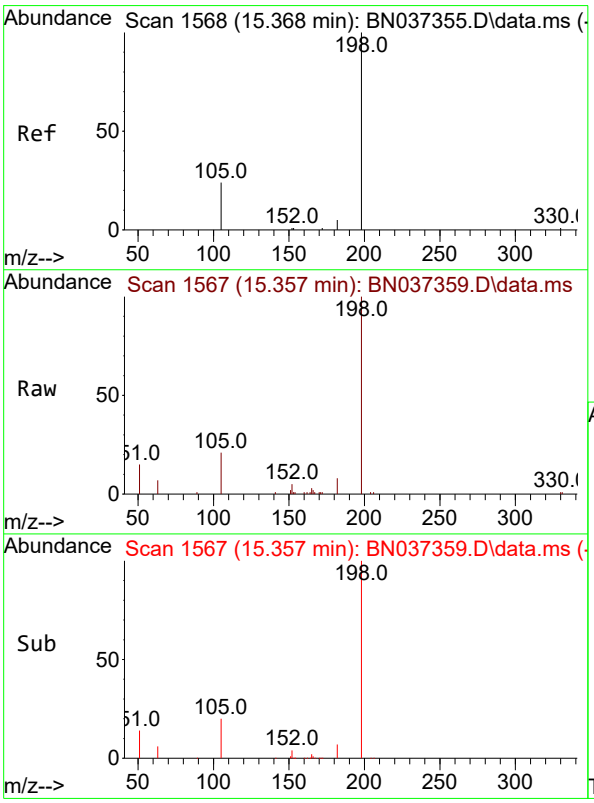
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 9254

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	6.2	9.2#

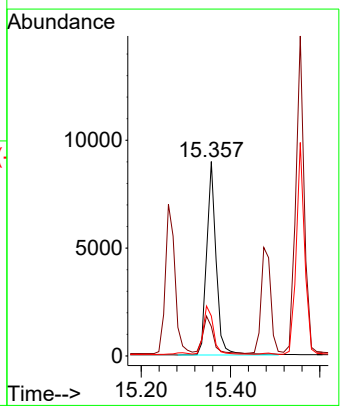


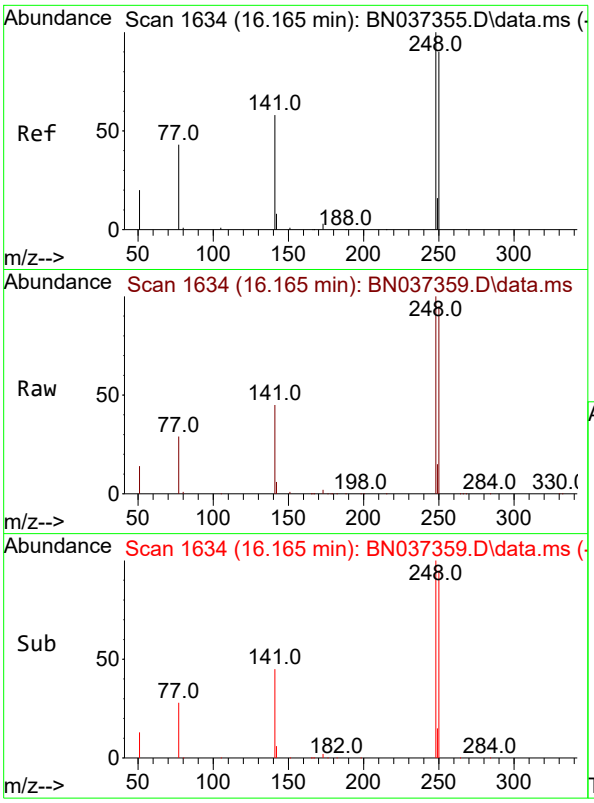


#20
4,6-Dinitro-2-methylphenol
Concen: 4.707 ng
RT: 15.357 min Scan# 1567
Delta R.T. -0.011 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:198 Resp: 13168

Ion	Ratio	Lower	Upper
198	100		
51	15.1	51.4	77.0#
105	20.6	45.5	68.3#



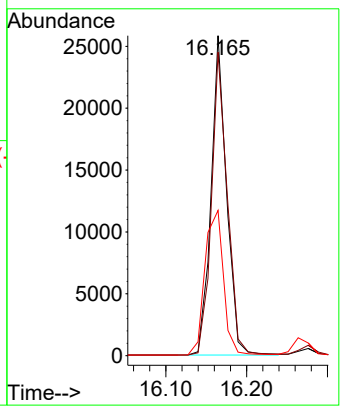


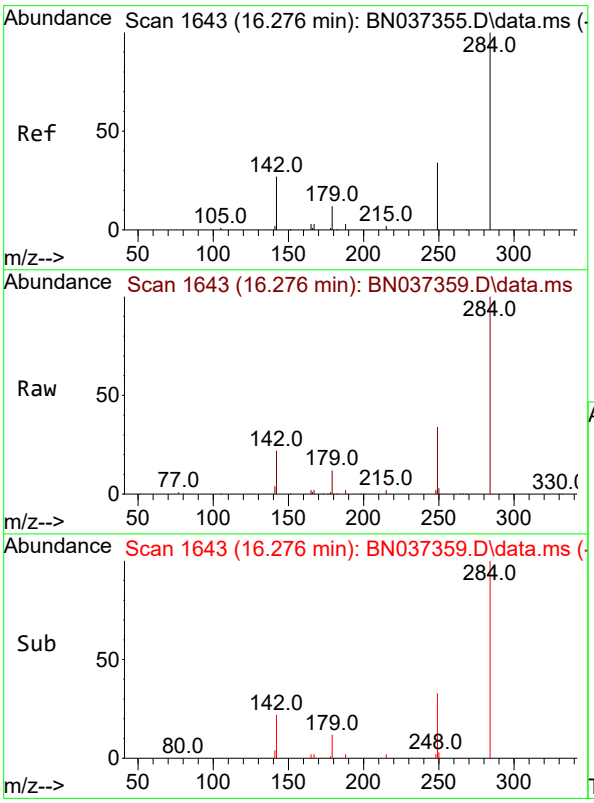
#21
4-Bromophenyl-phenylether
Concen: 4.578 ng
RT: 16.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 34583

Ion	Ratio	Lower	Upper
248	100		
250	94.8	80.4	120.6
141	45.4	33.3	49.9

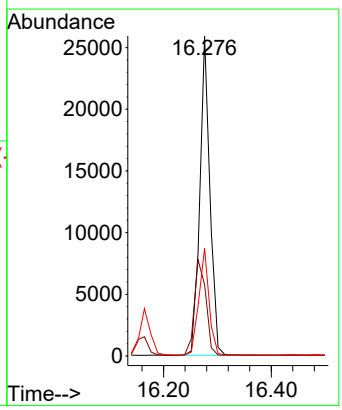


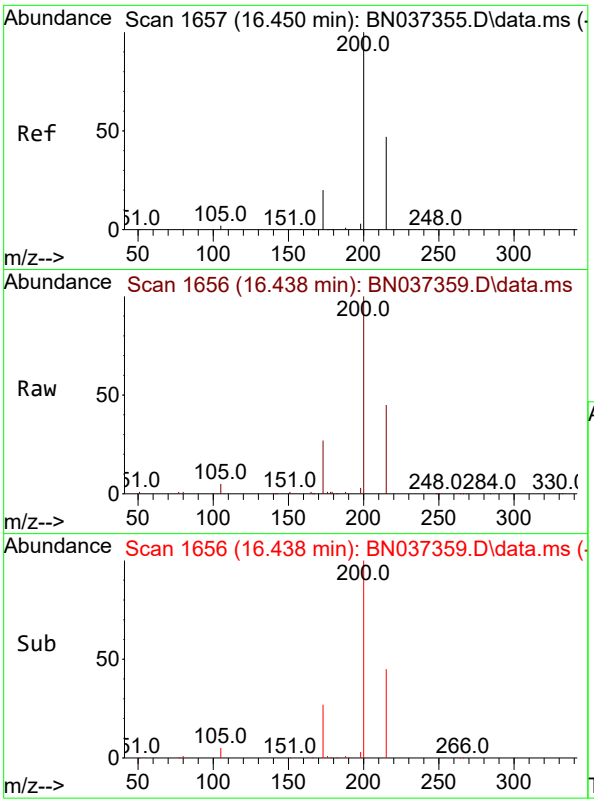


#22
Hexachlorobenzene
Concen: 4.288 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:284 Resp: 33797

Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.0	40.6
249	34.0	28.8	43.2



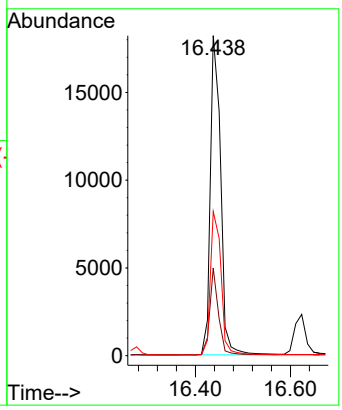


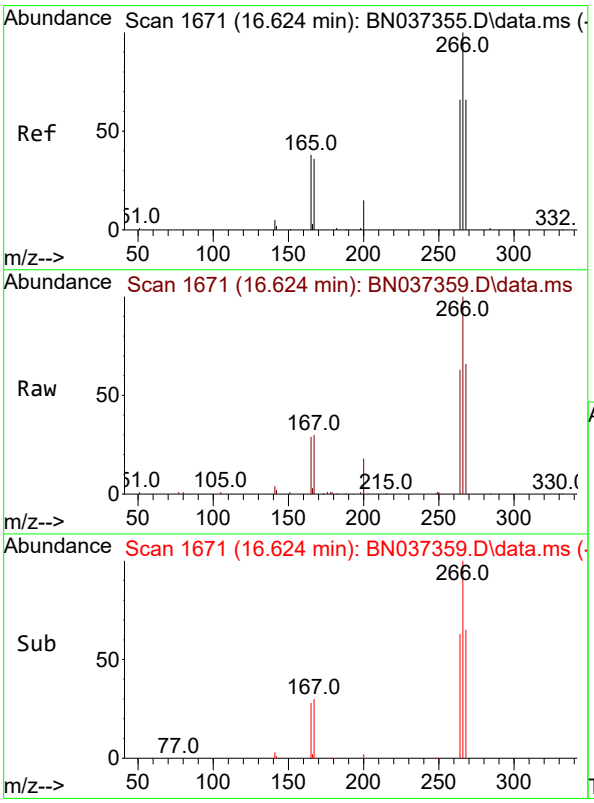
#23
Atrazine
Concen: 4.648 ng
RT: 16.438 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 27492

Ion	Ratio	Lower	Upper
200	100		
173	27.4	29.2	43.8#
215	45.1	48.8	73.2#

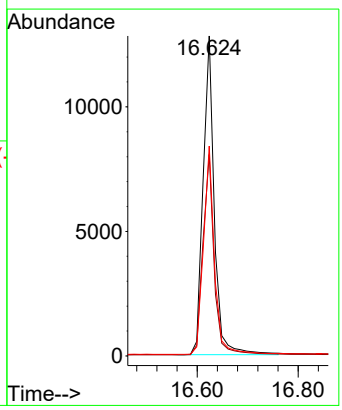


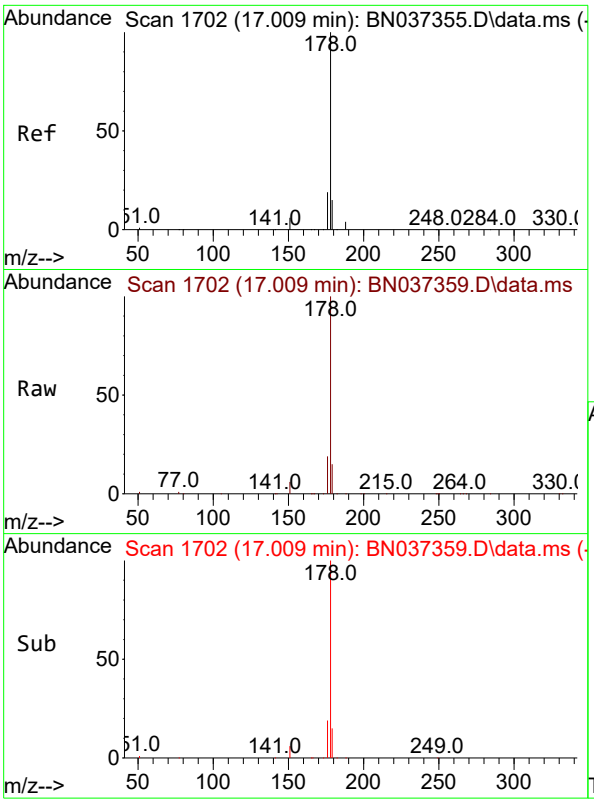


#24
Pentachlorophenol
Concen: 4.555 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:266 Resp: 19702

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.3	75.5
268	64.3	55.3	82.9



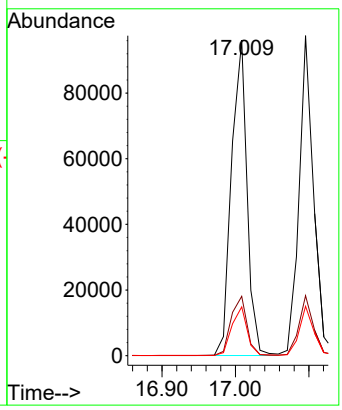


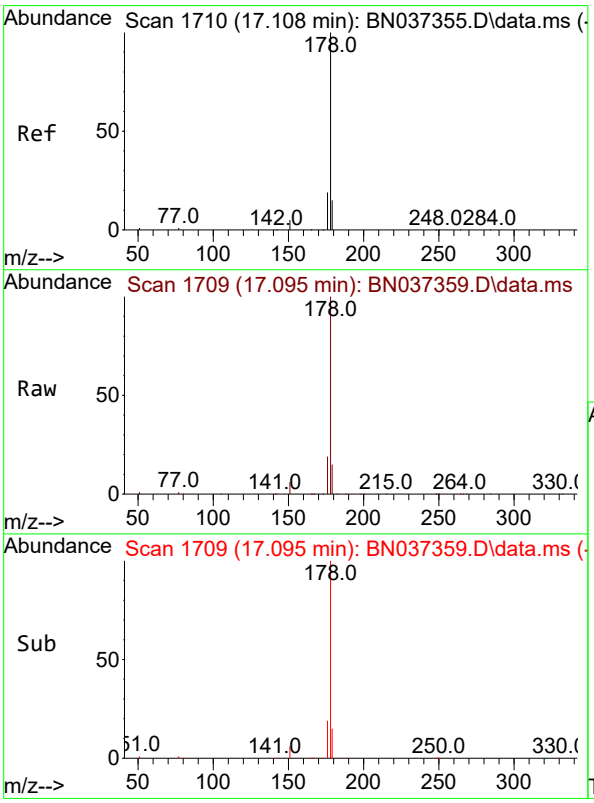
#25
Phenanthrene
Concen: 5.404 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 141308

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.2	22.8
179	15.2	12.9	19.3

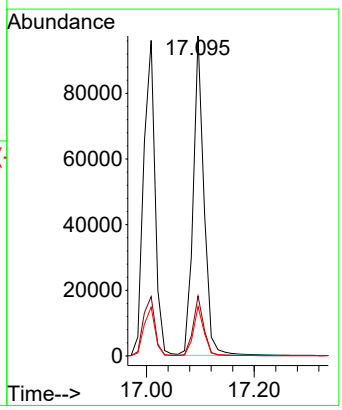


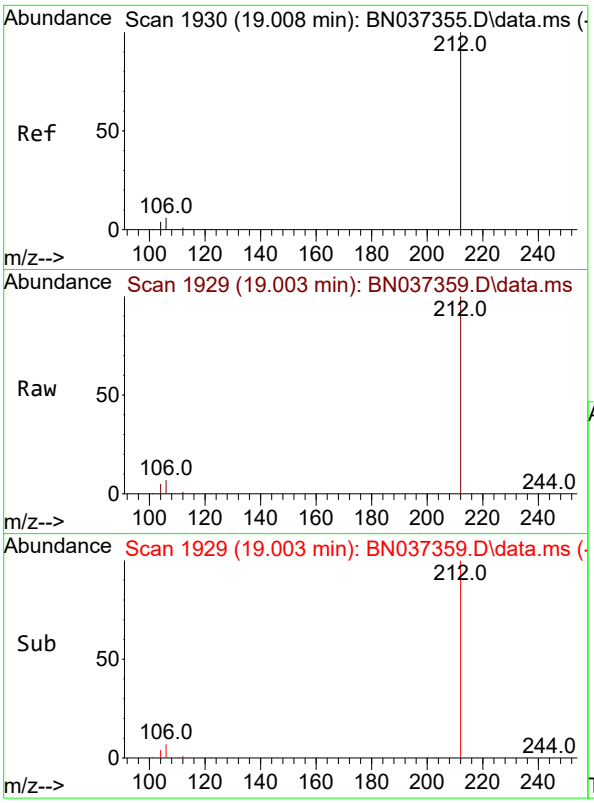


#26
Anthracene
Concen: 5.549 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.013 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:178 Resp: 135503

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.4	13.0	19.6



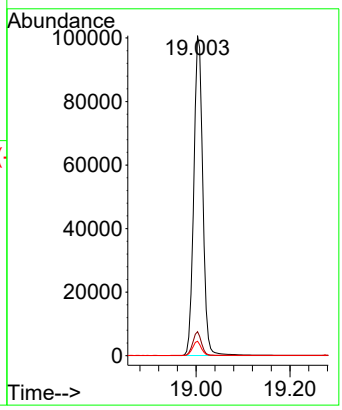


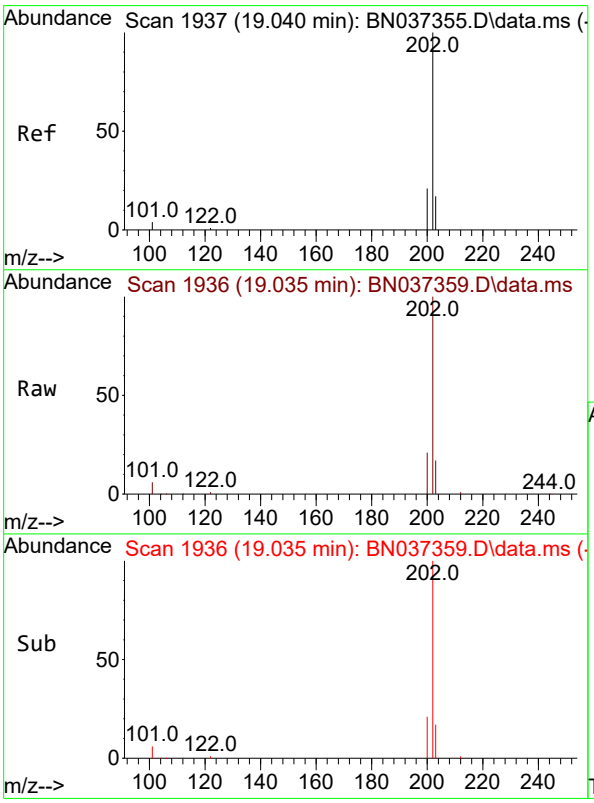
#27
Fluoranthene-d10
Concen: 4.649 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 133941

Ion	Ratio	Lower	Upper
212	100		
106	7.3	3.0	4.4#
104	4.3	2.0	3.0#

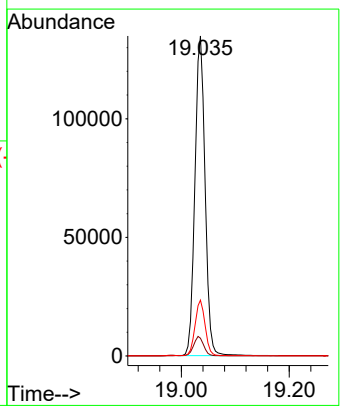


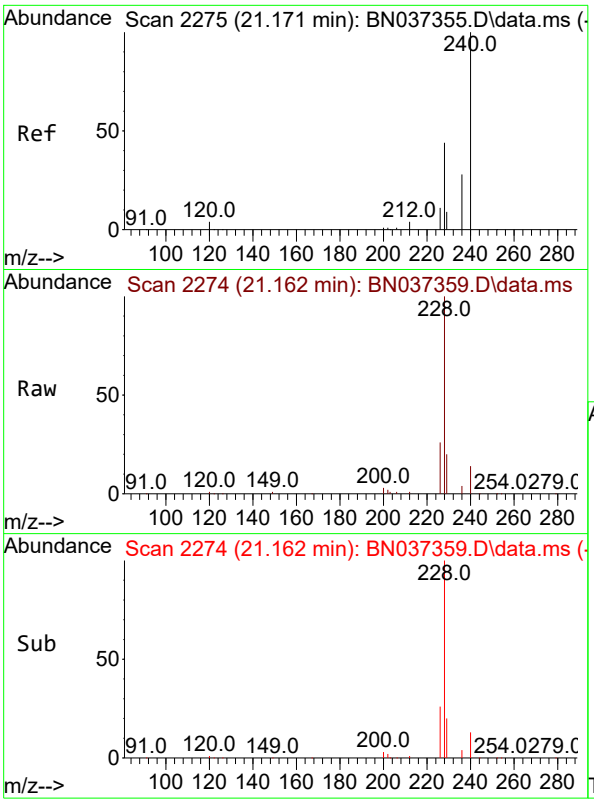


#28
Fluoranthene
Concen: 4.910 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:202 Resp: 175639

Ion	Ratio	Lower	Upper
202	100		
101	6.2	3.0	4.6#
203	17.3	13.7	20.5



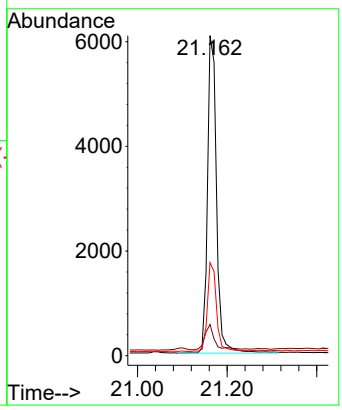


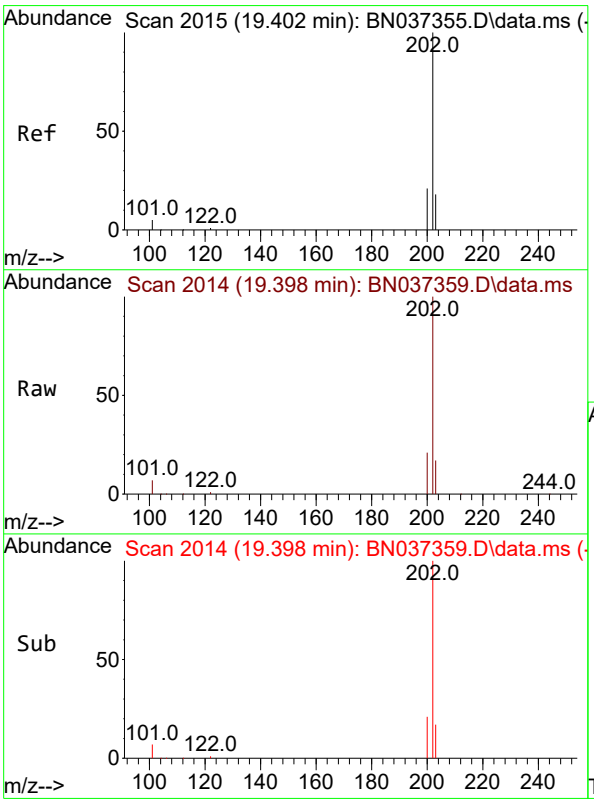
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 8543

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.5	11.3
236	29.1	24.9	37.3

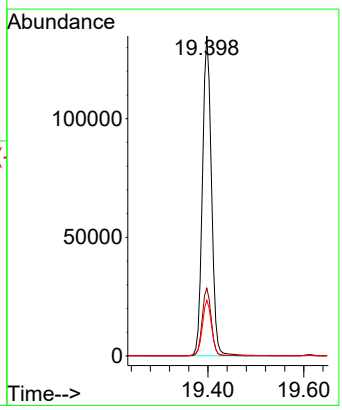


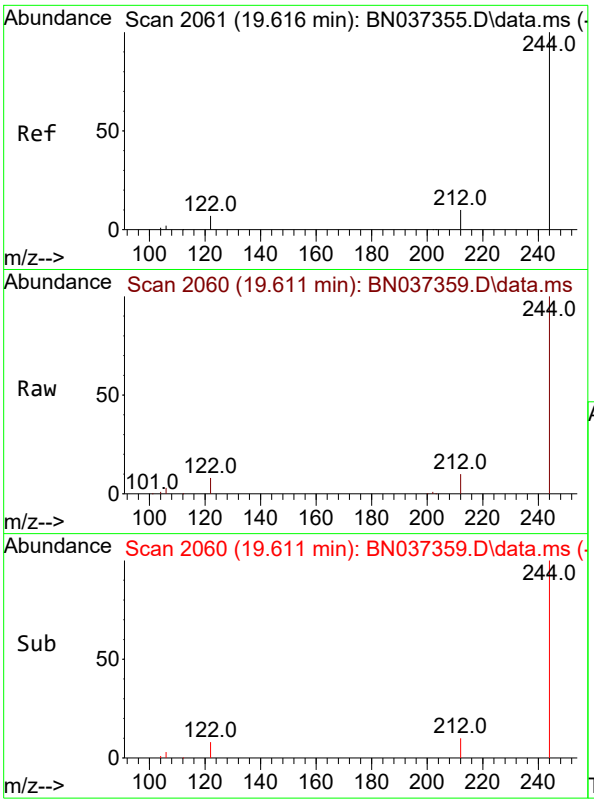


#30
Pyrene
Concen: 5.364 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:202 Resp: 175487

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.8	25.2
203	17.8	14.5	21.7



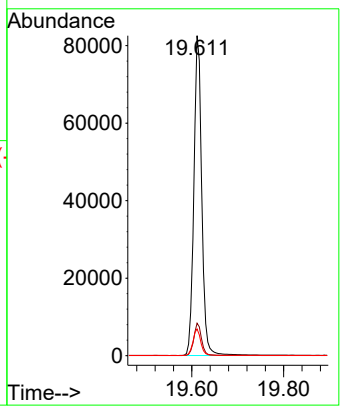


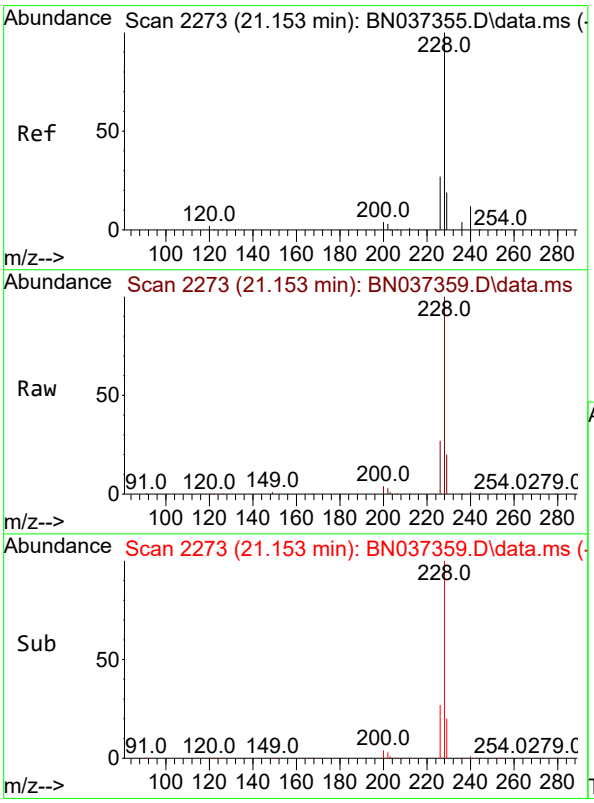
#31
Terphenyl-d14
Concen: 5.042 ng
RT: 19.611 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 98354

Ion	Ratio	Lower	Upper
244	100		
212	10.2	11.1	16.7#
122	8.4	7.2	10.8

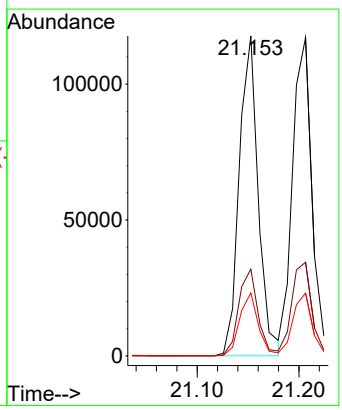


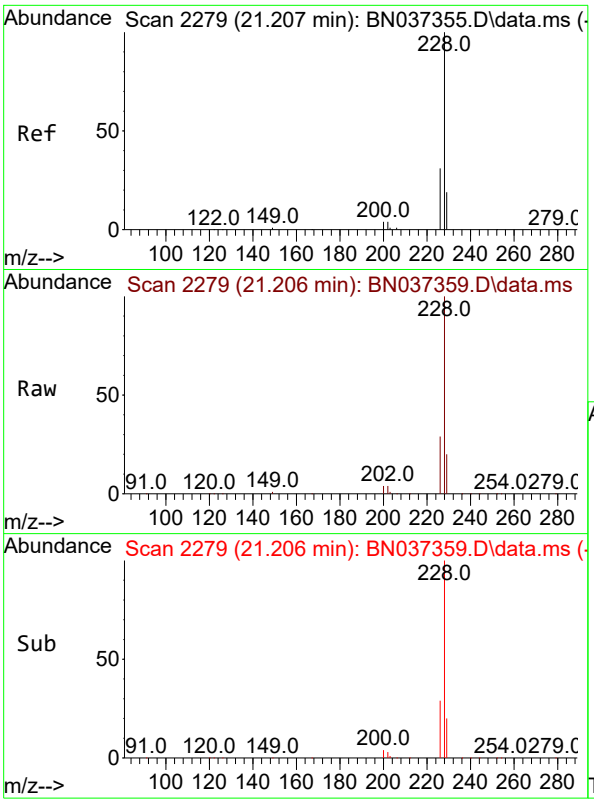


#32
Benzo(a)anthracene
Concen: 5.534 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:228 Resp: 152551

Ion	Ratio	Lower	Upper
228	100		
226	27.1	23.0	34.4
229	19.7	17.4	26.0



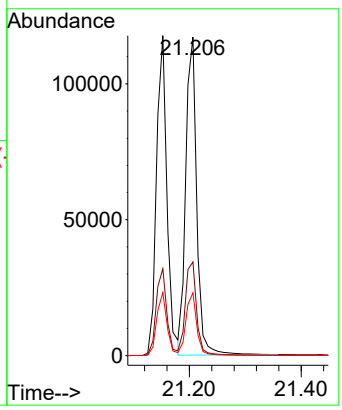


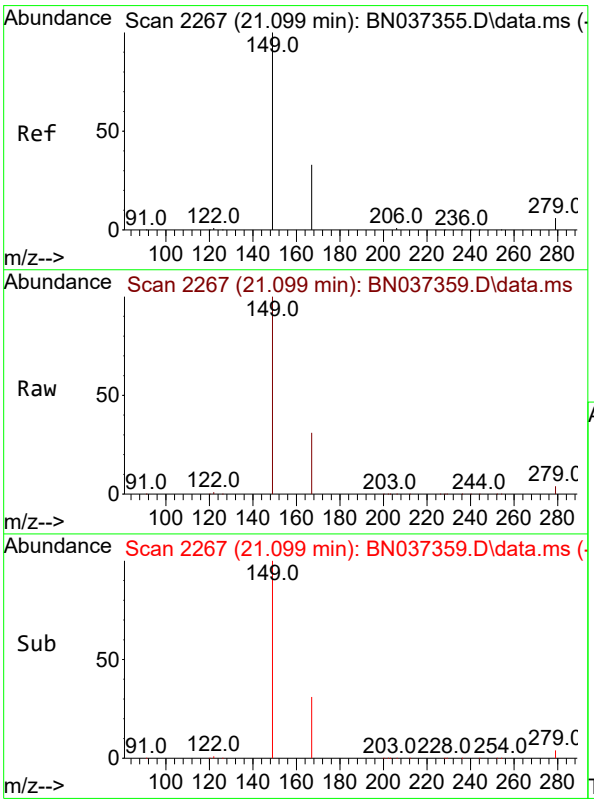
#33
Chrysene
Concen: 4.566 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 159633

Ion	Ratio	Lower	Upper
228	100		
226	29.5	25.4	38.2
229	19.7	17.3	25.9

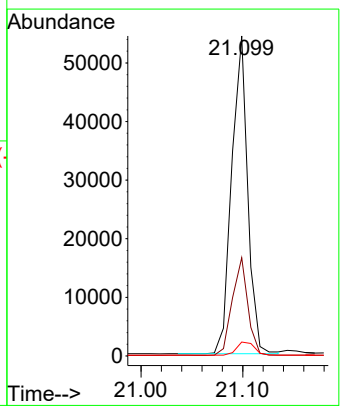


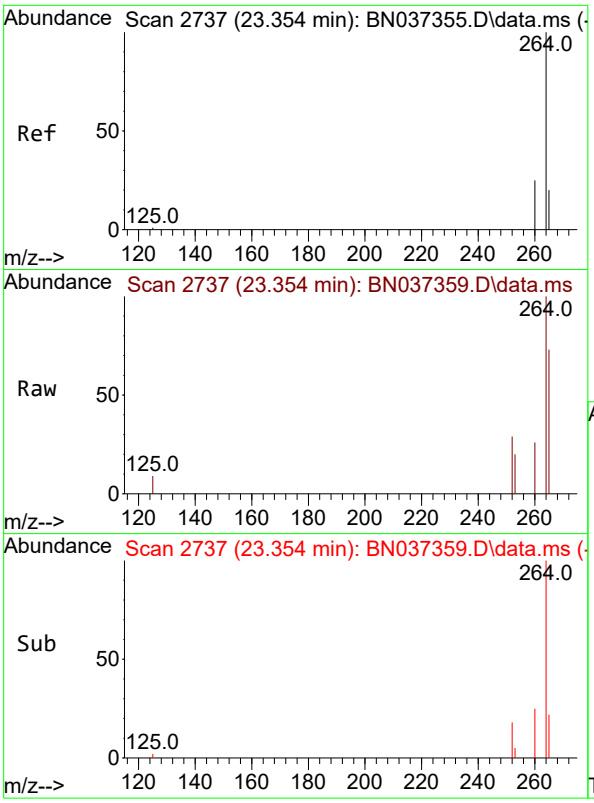


#34
Bis(2-ethylhexyl)phthalate
Concen: 5.235 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:149 Resp: 59151

Ion	Ratio	Lower	Upper
149	100		
167	30.2	24.6	37.0
279	4.7	6.5	9.7#



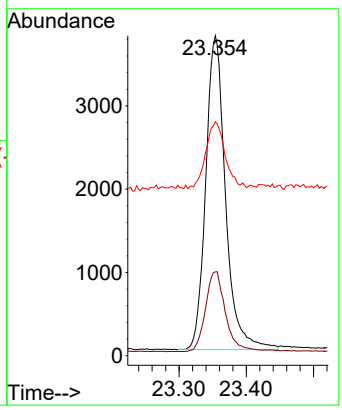


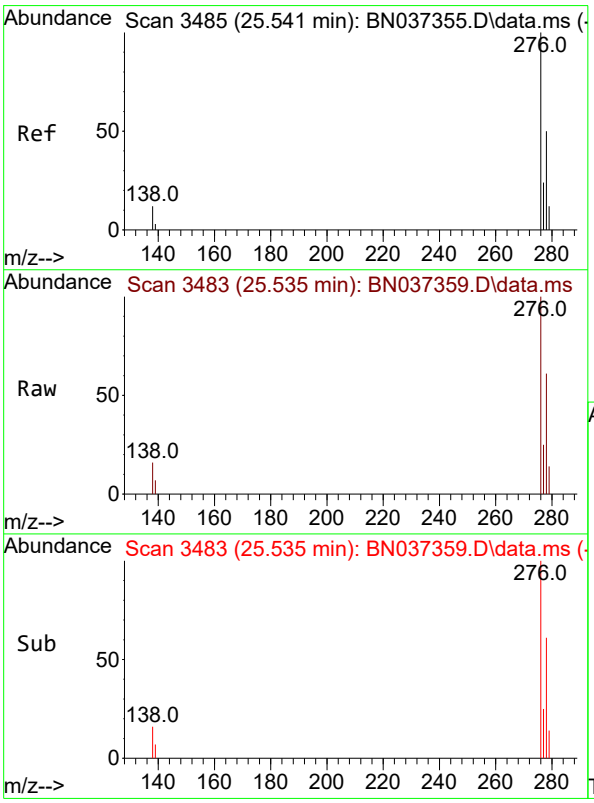
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 7704

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	73.1	71.4	107.0

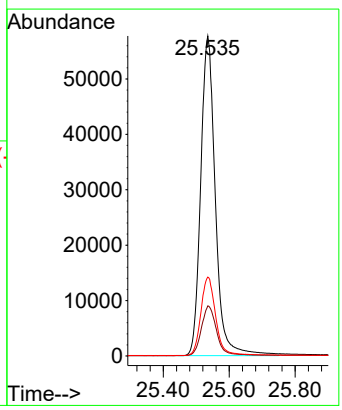


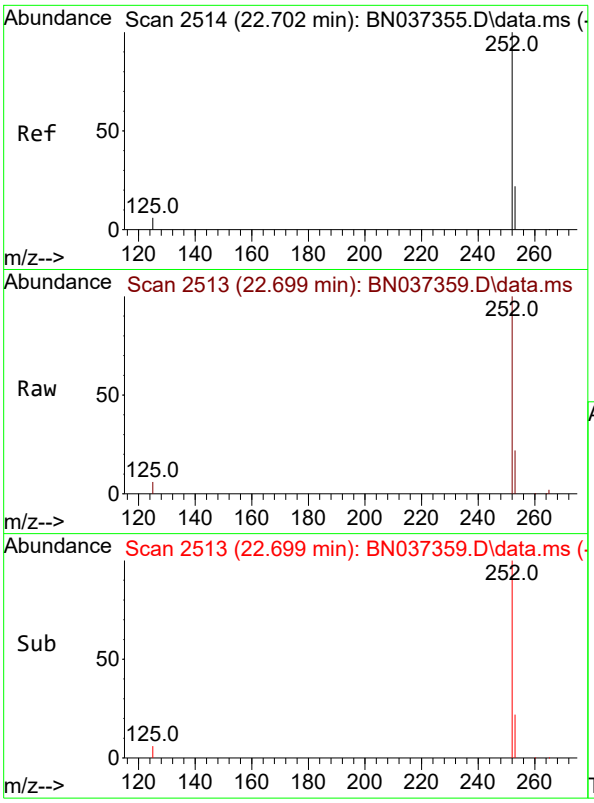


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.473 ng
RT: 25.535 min Scan# 3483
Delta R.T. -0.006 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:276 Resp: 178739

Ion	Ratio	Lower	Upper
276	100		
138	16.1	2.2	3.2#
277	24.9	17.1	25.7



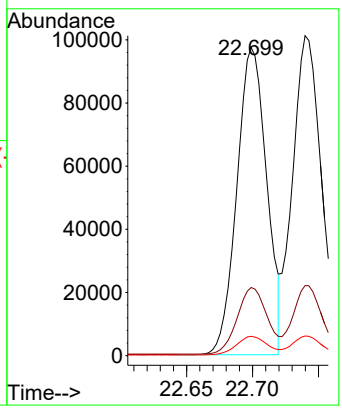


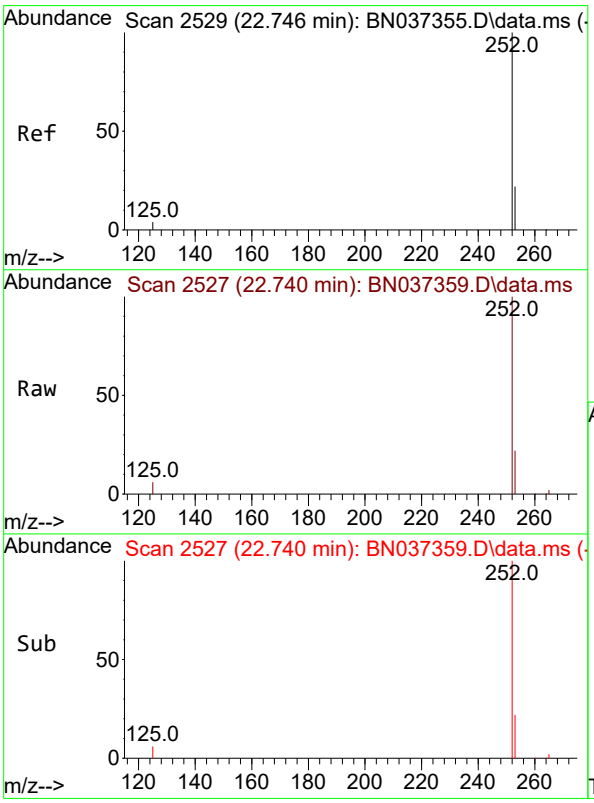
#37
Benzo(b)fluoranthene
Concen: 5.595 ng
RT: 22.699 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 152855

Ion	Ratio	Lower	Upper
252	100		
253	22.1	26.6	40.0#
125	6.3	6.1	9.1

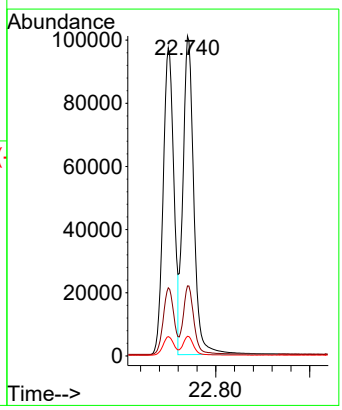


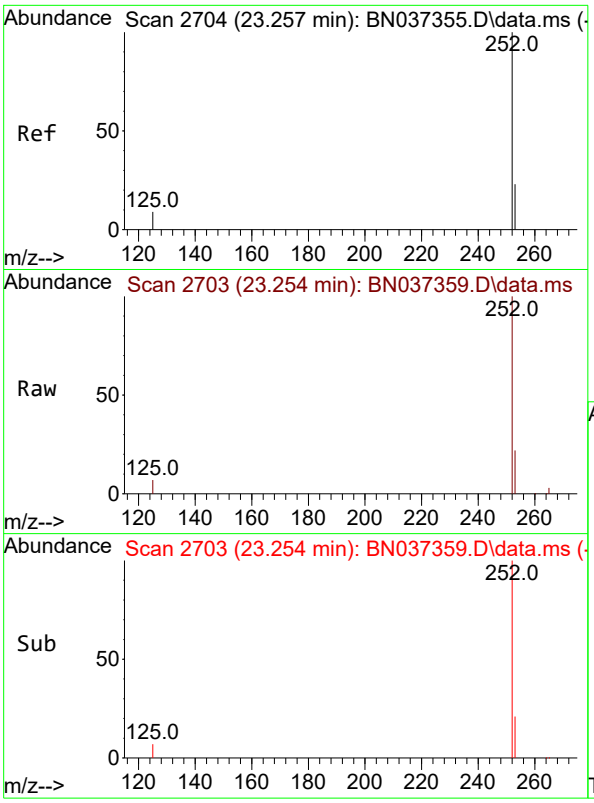


#38
Benzo(k)fluoranthene
Concen: 5.473 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:252 Resp: 162397

Ion	Ratio	Lower	Upper
252	100		
253	21.9	26.7	40.1#
125	6.2	6.5	9.7#



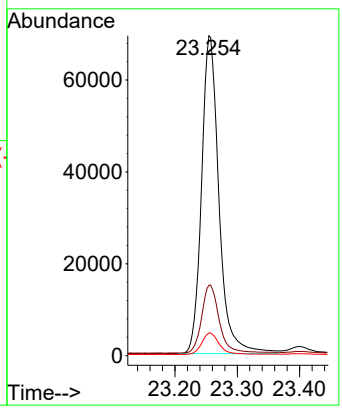


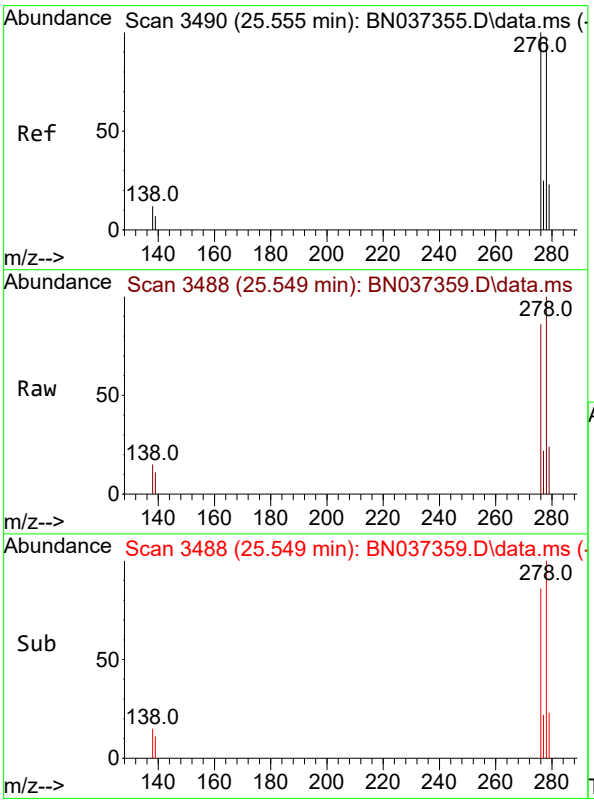
#39
Benzo(a)pyrene
Concen: 5.375 ng
RT: 23.254 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 134379

Ion	Ratio	Lower	Upper
252	100		
253	22.0	31.6	47.4#
125	7.0	8.4	12.6#

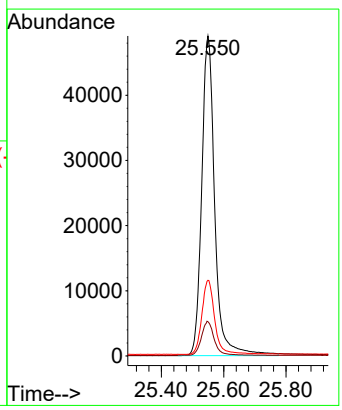


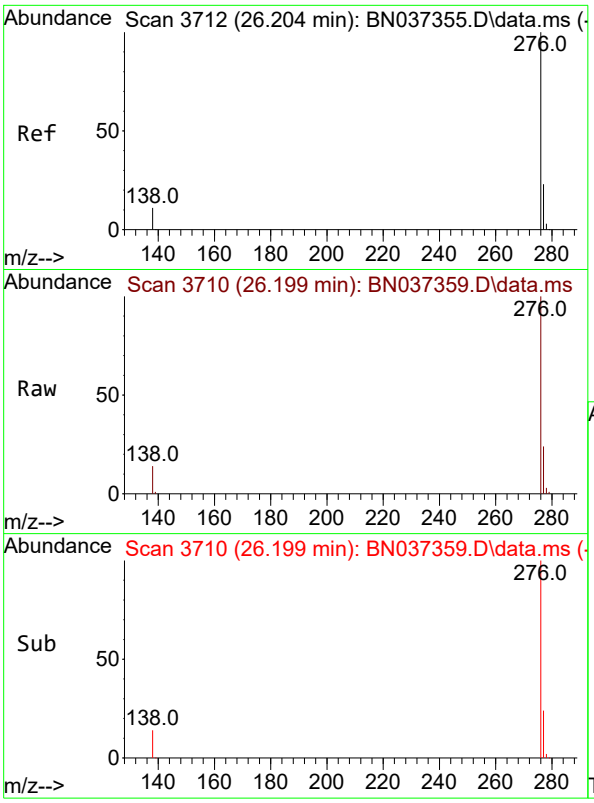


#40
Dibenzo(a,h)anthracene
Concen: 5.474 ng
RT: 25.549 min Scan# 3488
Delta R.T. -0.006 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:278 Resp: 142364

Ion	Ratio	Lower	Upper
278	100		
139	10.7	10.2	15.4
279	23.6	35.6	53.4#



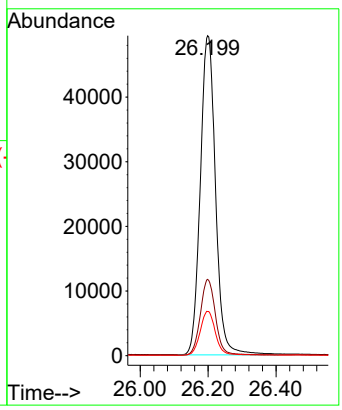


#41
Benzo(g,h,i)perylene
Concen: 5.131 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 153920

Ion	Ratio	Lower	Upper
276	100		
277	23.8	22.7	34.1
138	13.8	9.4	14.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	2309	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	5064	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	3457	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	7065	0.400	ng	#	0.00
29) Chrysene-d12	21.171	240	5560	0.400	ng	#	0.00
35) Perylene-d12	23.354	264	5756	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1841	0.399	ng		0.00
5) Phenol-d6	6.752	99	1797	0.378	ng		0.00
8) Nitrobenzene-d5	8.717	82	1658	0.405	ng		0.00
11) 2-Methylnaphthalene-d10	11.945	152	3394	0.414	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	756	0.373	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	6049	0.398	ng		0.00
27) Fluoranthene-d10	19.008	212	7940	0.392	ng		0.00
31) Terphenyl-d14	19.616	244	5266	0.416	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	942	0.401	ng		91
3) n-Nitrosodimethylamine	3.422	42	845	0.393	ng	#	70
6) bis(2-Chloroethyl)ether	7.004	93	1718	0.407	ng		93
9) Naphthalene	10.394	128	5338	0.399	ng	#	89
10) Hexachlorobutadiene	10.682	225	2157	0.409	ng	#	99
12) 2-Methylnaphthalene	12.021	142	3620	0.388	ng	#	91
16) Acenaphthylene	13.935	152	5463	0.376	ng		98
17) Acenaphthene	14.277	154	3720	0.389	ng		99
18) Fluorene	15.272	166	5193	0.386	ng		99
20) 4,6-Dinitro-2-methylph...	15.368	198	491	0.289	ng		92
21) 4-Bromophenyl-phenylether	16.165	248	1905	0.379	ng	#	84
22) Hexachlorobenzene	16.276	284	2222	0.406	ng		98
23) Atrazine	16.450	200	1453	0.362	ng	#	84
24) Pentachlorophenol	16.624	266	881	0.323	ng		97
25) Phenanthrene	17.009	178	7743	0.378	ng		99
26) Anthracene	17.108	178	6739	0.357	ng		99
28) Fluoranthene	19.036	202	9535	0.369	ng	#	99
30) Pyrene	19.398	202	9570	0.424	ng		100
32) Benzo(a)anthracene	21.153	228	6805	0.372	ng		99
33) Chrysene	21.207	228	9119	0.412	ng		98
34) Bis(2-ethylhexyl)phtha...	21.099	149	3022	0.403	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	9492	0.368	ng	#	92
37) Benzo(b)fluoranthene	22.702	252	8083m	0.382	ng		
38) Benzo(k)fluoranthene	22.746	252	9472	0.412	ng		95
39) Benzo(a)pyrene	23.260	252	7258	0.382	ng	#	89
40) Dibenzo(a,h)anthracene	25.553	278	7116	0.367	ng	#	87
41) Benzo(g,h,i)perylene	26.199	276	8707	0.378	ng		95

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

ICAL Form

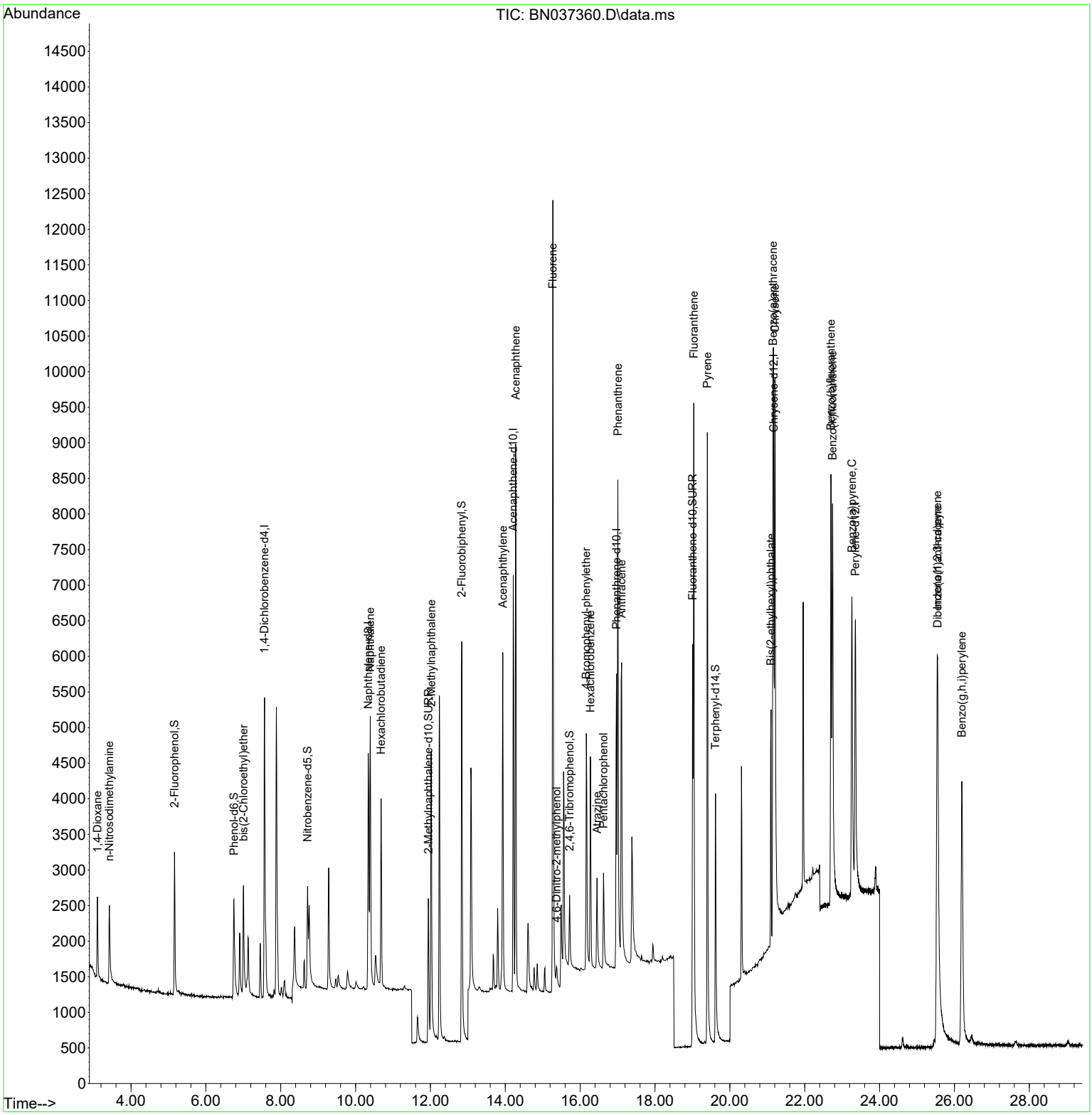
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

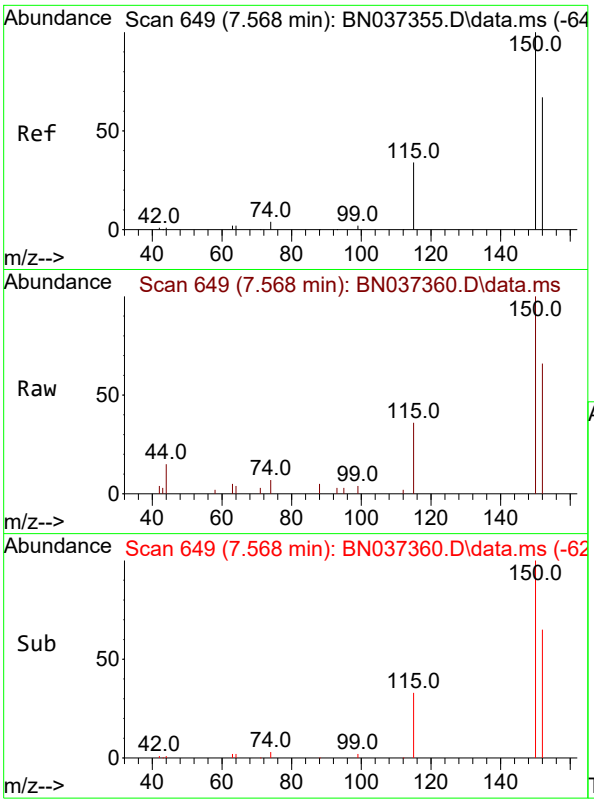
Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

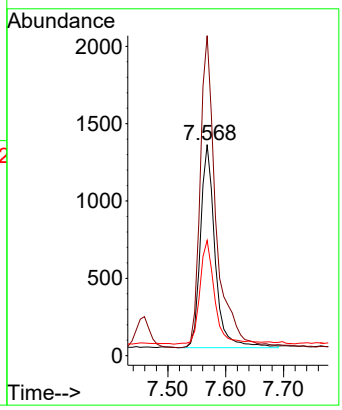




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:152 Resp: 230

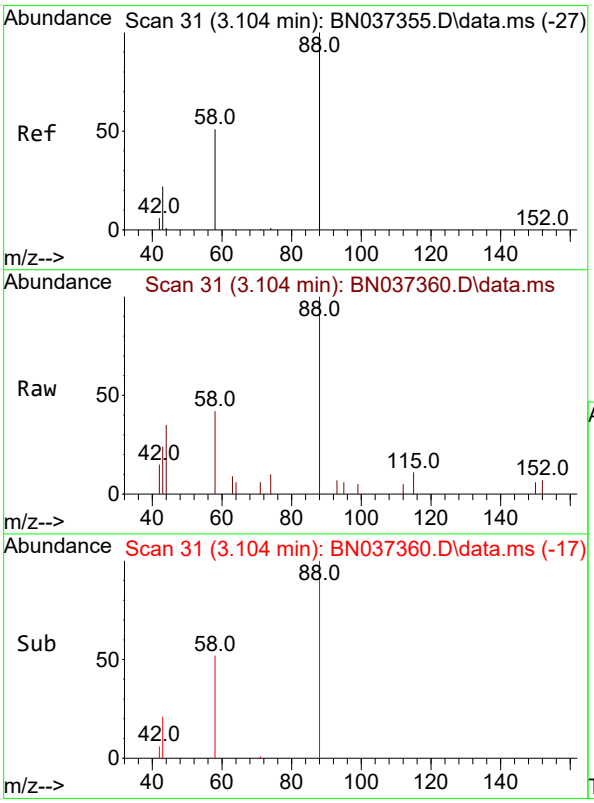
Ion	Ratio	Lower	Upper
152	100		
150	151.6	112.7	169.1
115	54.6	45.9	68.9



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Manual Integrations
APPROVED

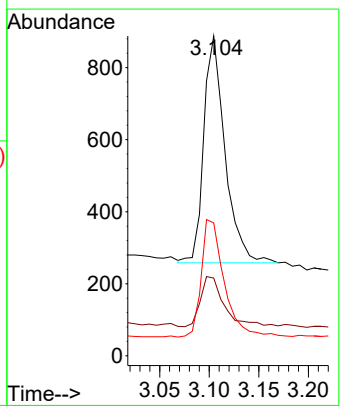
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

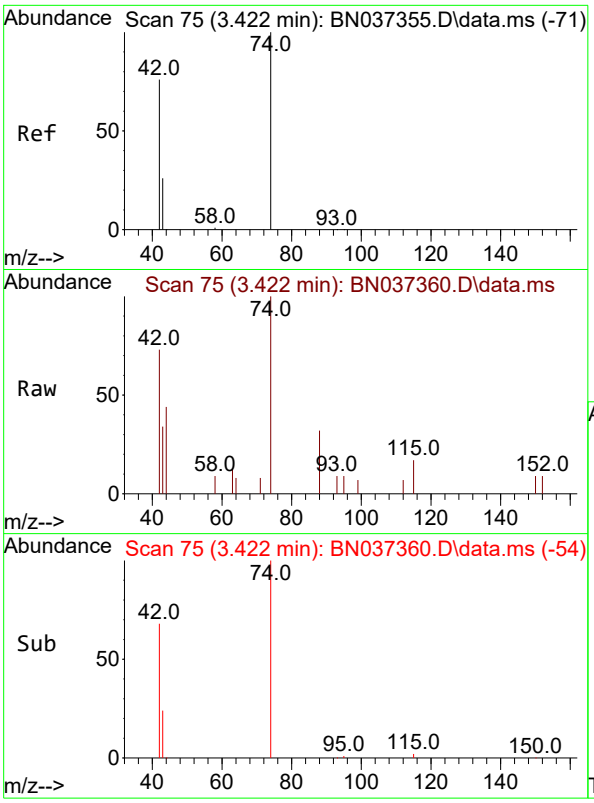


#2
1,4-Dioxane
Concen: 0.401 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 88 Resp: 942

Ion	Ratio	Lower	Upper
88	100		
43	24.5	21.0	31.6
58	55.4	38.0	57.0

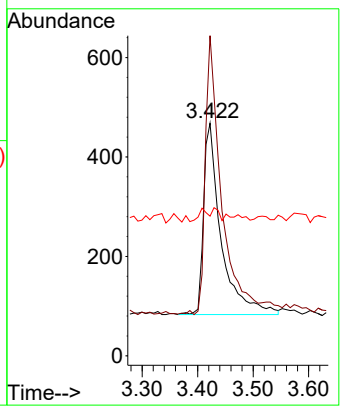




#3
n-Nitrosodimethylamine
Concen: 0.393 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 42 Resp: 84

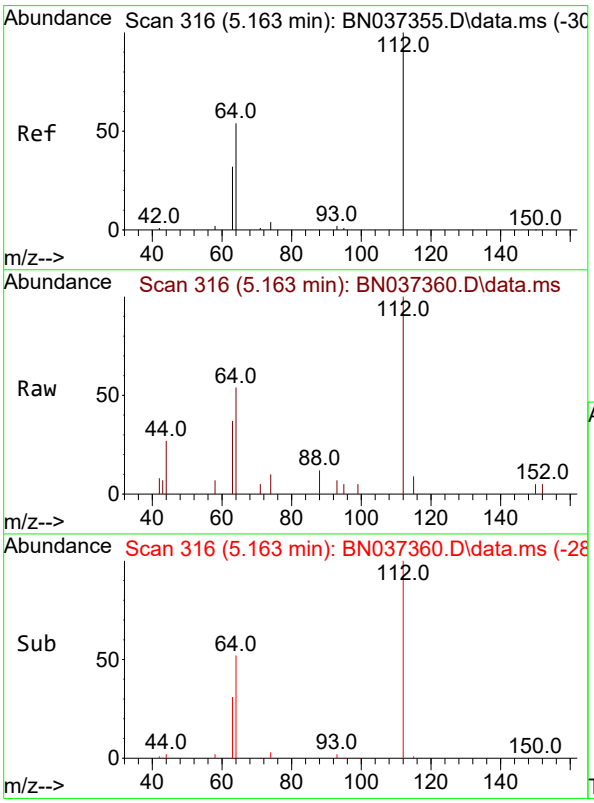
Ion	Ratio	Lower	Upper
42	100		
74	137.3	84.3	126.5#
44	2.5	5.0	7.4#



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Manual Integrations
APPROVED

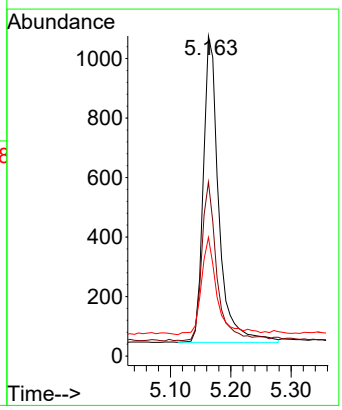
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

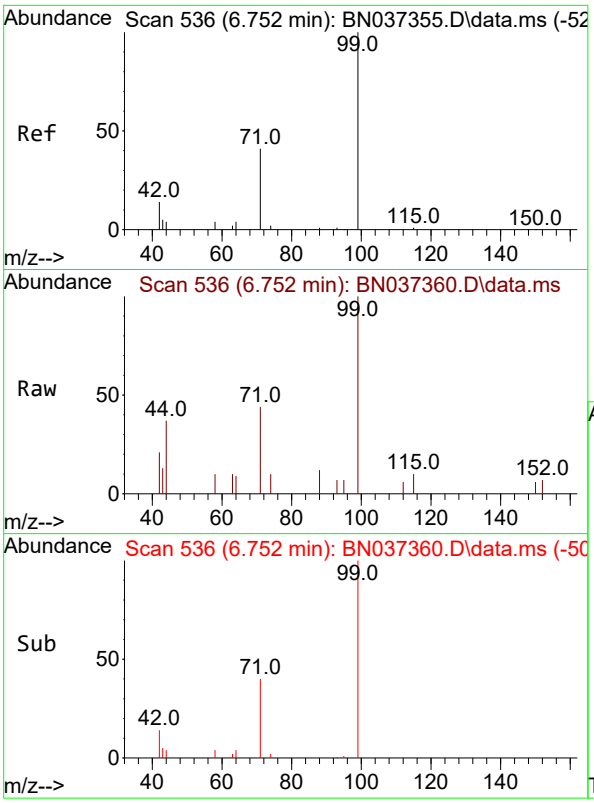


#4
2-Fluorophenol
Concen: 0.399 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:112 Resp: 1841

Ion	Ratio	Lower	Upper
112	100		
64	50.3	38.7	58.1
63	31.9	26.4	39.6

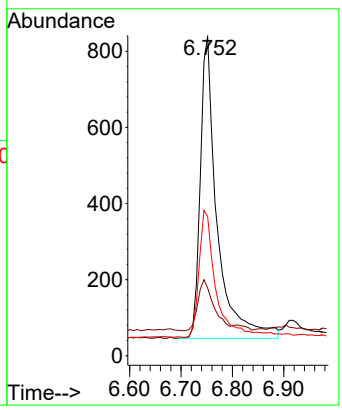




#5
Phenol-d6
Concen: 0.378 ng
RT: 6.752 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 99 Resp: 179

Ion	Ratio	Lower	Upper
99	100		
42	15.9	19.8	29.8
71	43.3	42.6	64.0



Instrument :
BNA_N
ClientSampleId :
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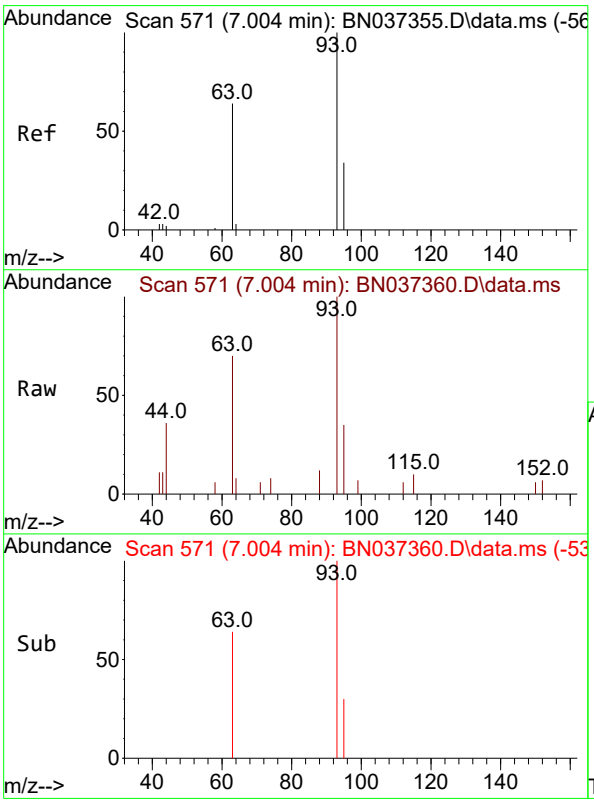
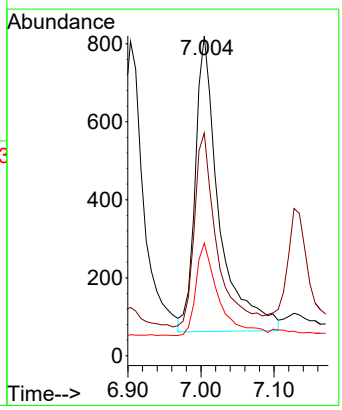
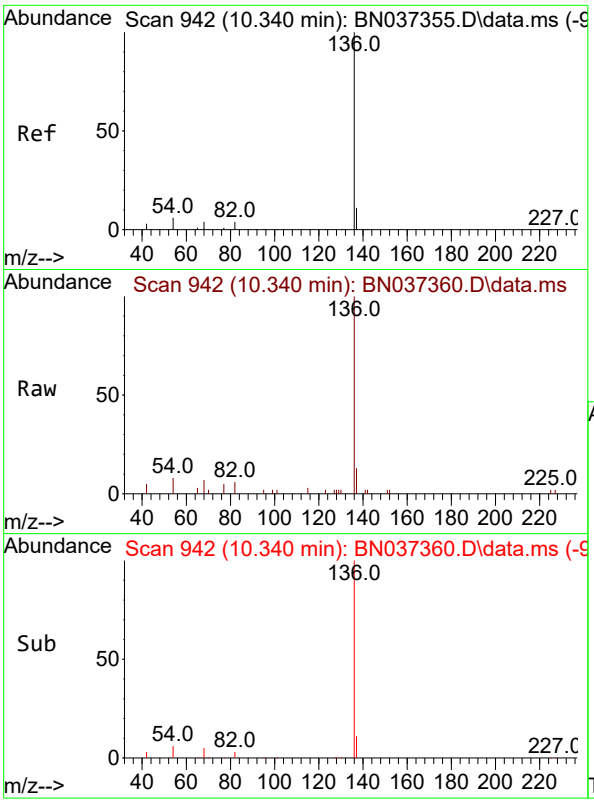


#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 93 Resp: 1718

Ion	Ratio	Lower	Upper
93	100		
63	61.8	53.2	79.8
95	29.5	27.3	40.9

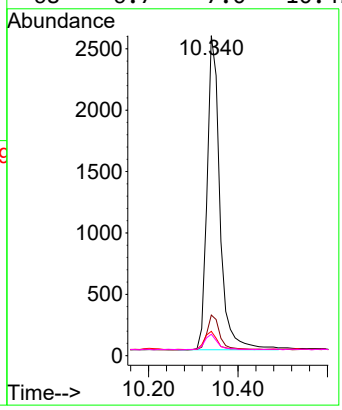




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:136 Resp: 506

Ion	Ratio	Lower	Upper
136	100		
137	12.7	12.2	18.2
54	7.6	8.8	13.2#
68	6.7	7.0	10.4#



Instrument :
BNA_N
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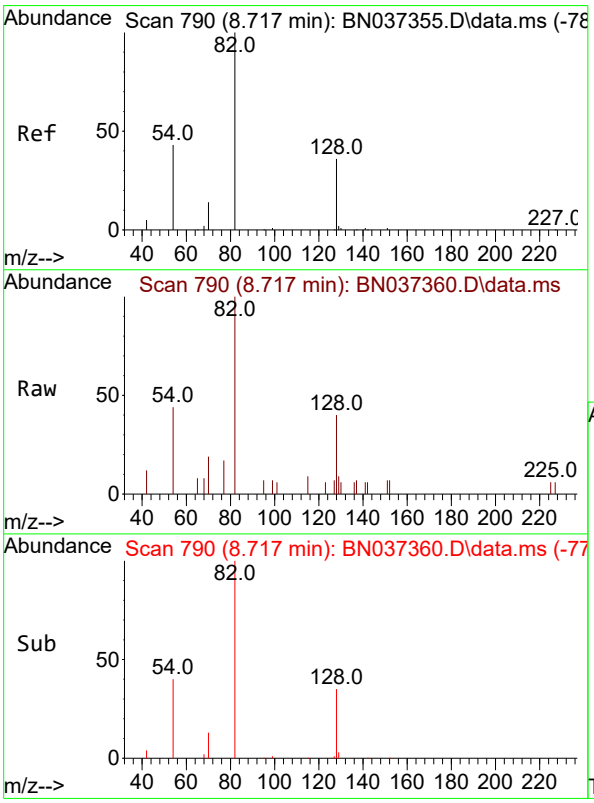
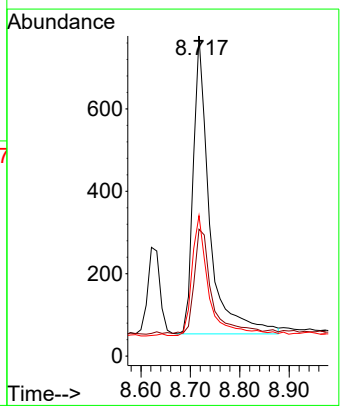
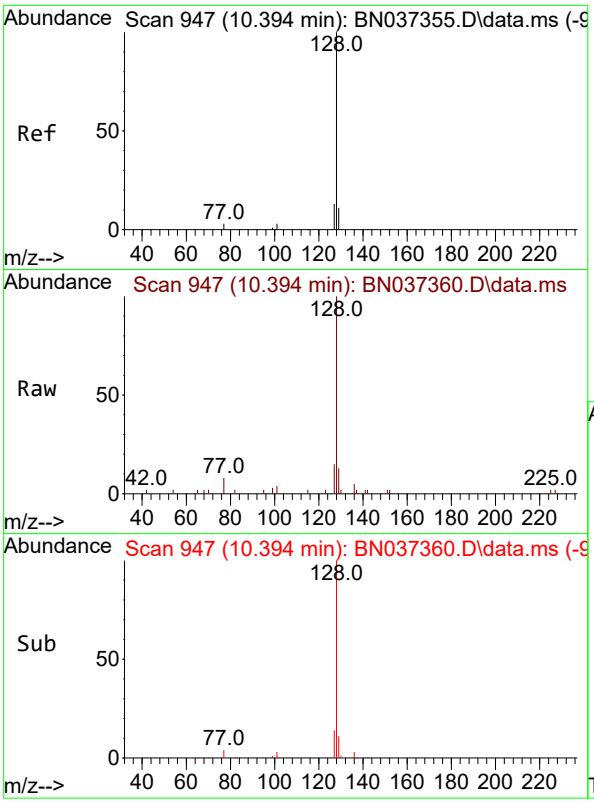


#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 82 Resp: 1658

Ion	Ratio	Lower	Upper
82	100		
128	39.6	42.5	63.7#
54	43.9	43.2	64.8

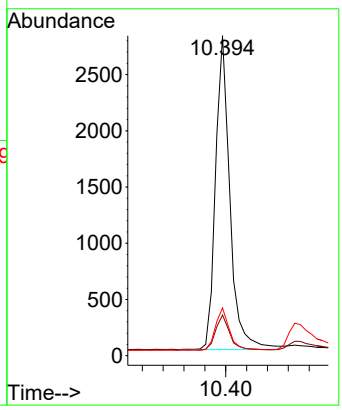




#9
Naphthalene
Concen: 0.399 ng
RT: 10.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:128 Resp: 533

Ion	Ratio	Lower	Upper
128	100		
129	12.7	14.0	21.0#
127	15.0	15.8	23.8#



Instrument :
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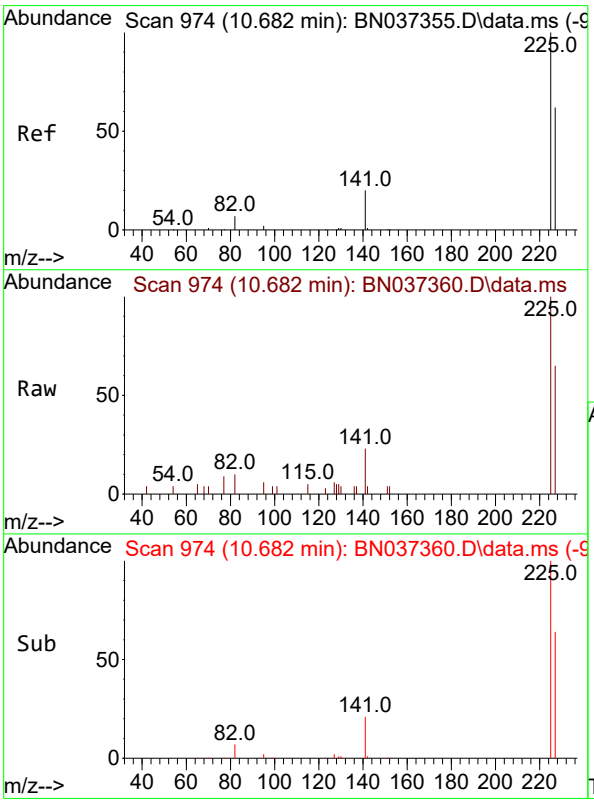
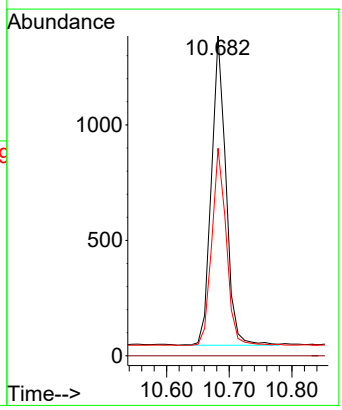
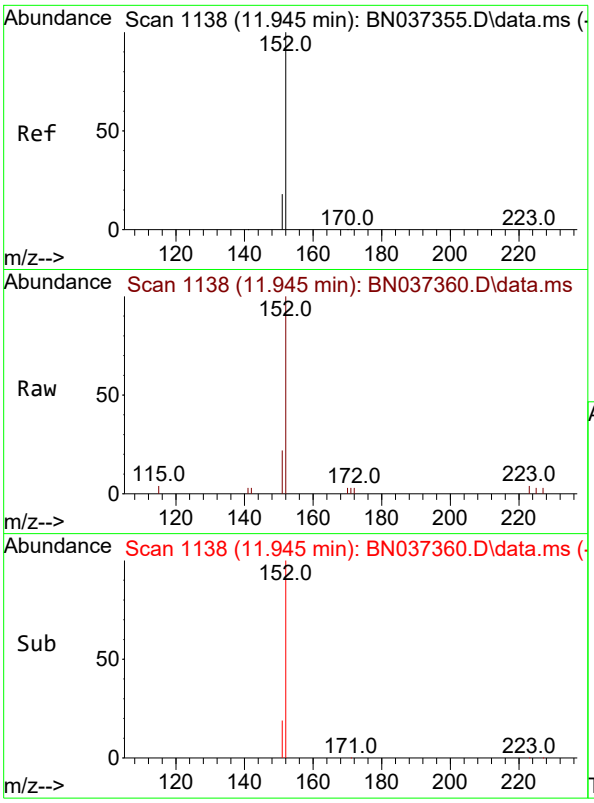


#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:225 Resp: 2157

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	50.3	75.5





#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 11.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:152 Resp: 339

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.4	26.0

Instrument :
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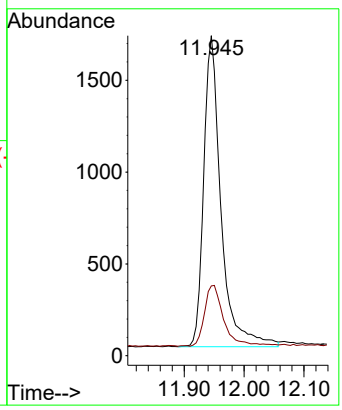
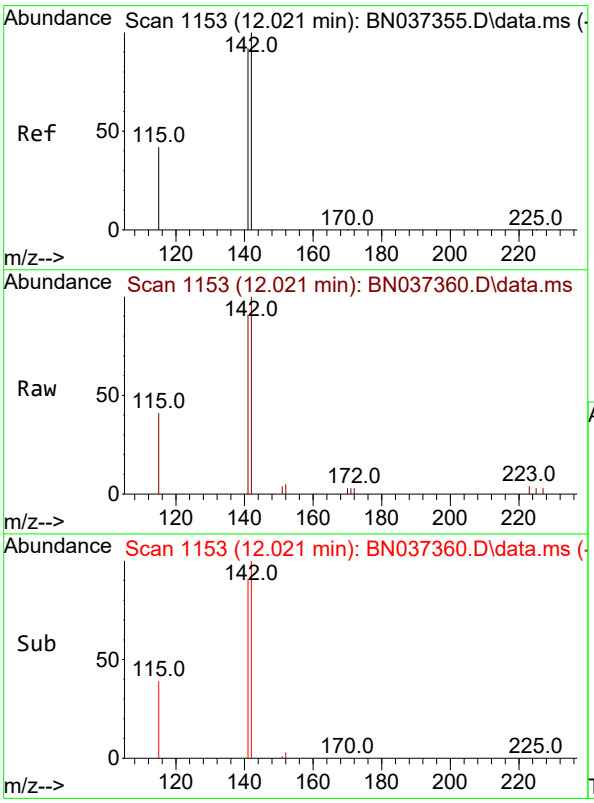
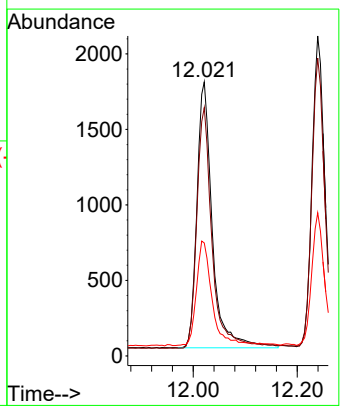


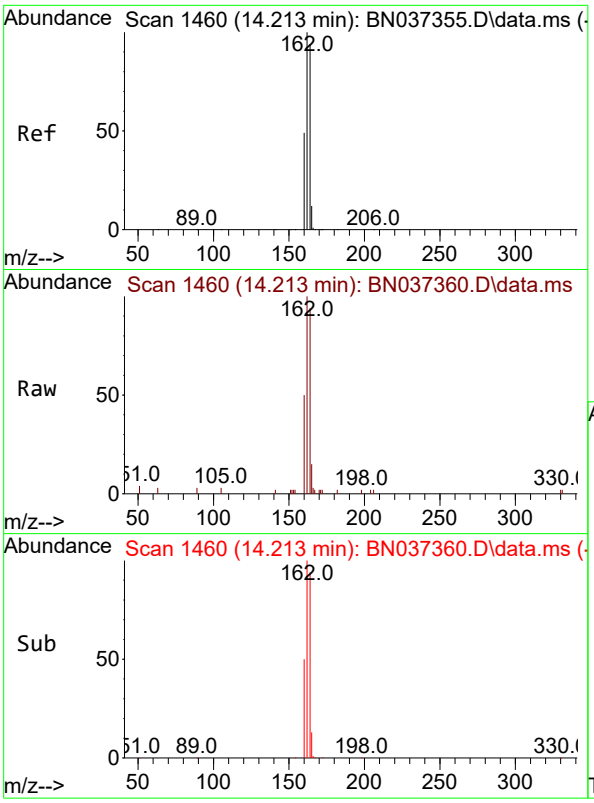


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:142 Resp: 3620

Ion	Ratio	Lower	Upper
142	100		
141	90.6	70.2	105.2
115	41.2	43.0	64.4#

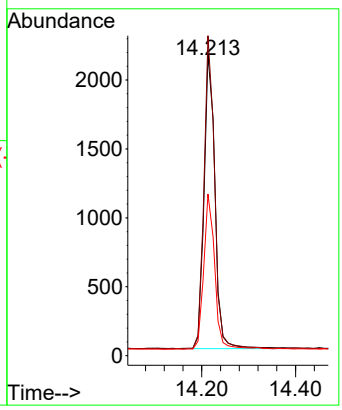




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:164 Resp: 345

Ion	Ratio	Lower	Upper
164	100		
162	106.3	81.5	122.3
160	53.6	43.0	64.4



Instrument :
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ClientSampleId :
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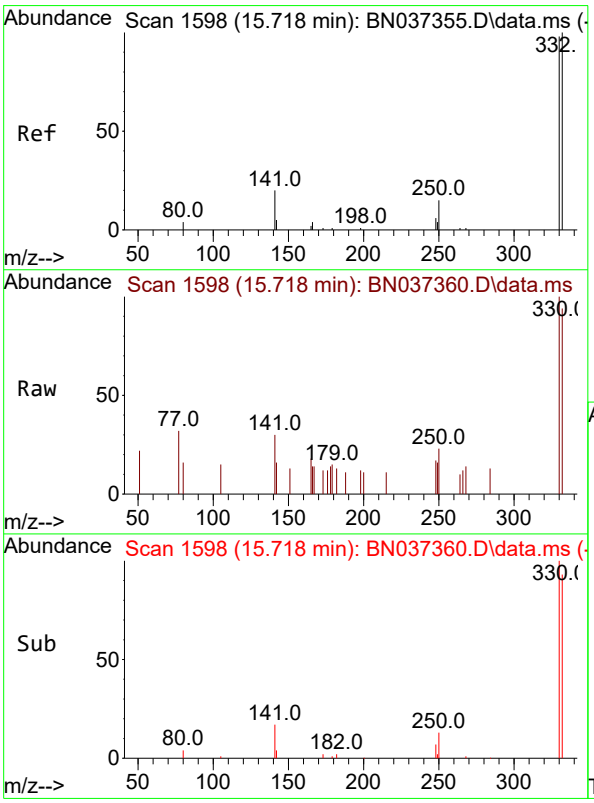
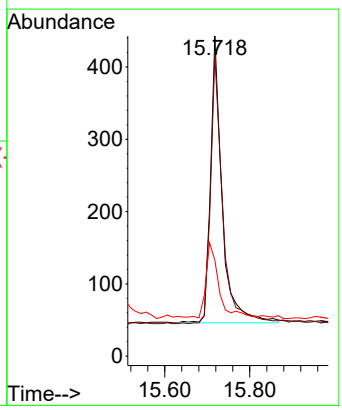
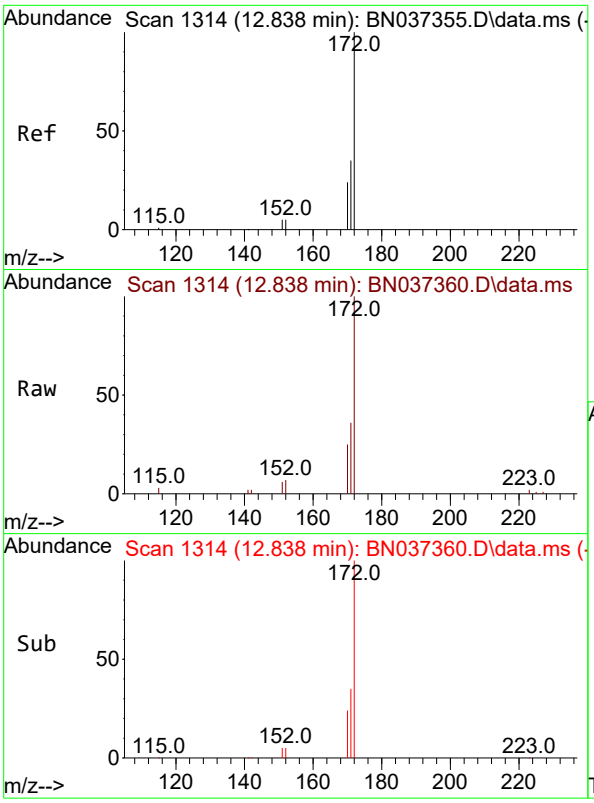


#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:330 Resp: 756

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.4	117.6
141	28.0	24.4	36.6

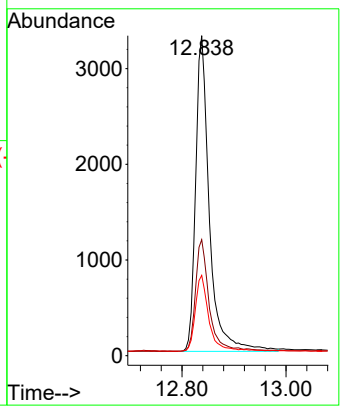




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.838 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:172 Resp: 604

Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.8	46.2
170	25.1	21.9	32.9



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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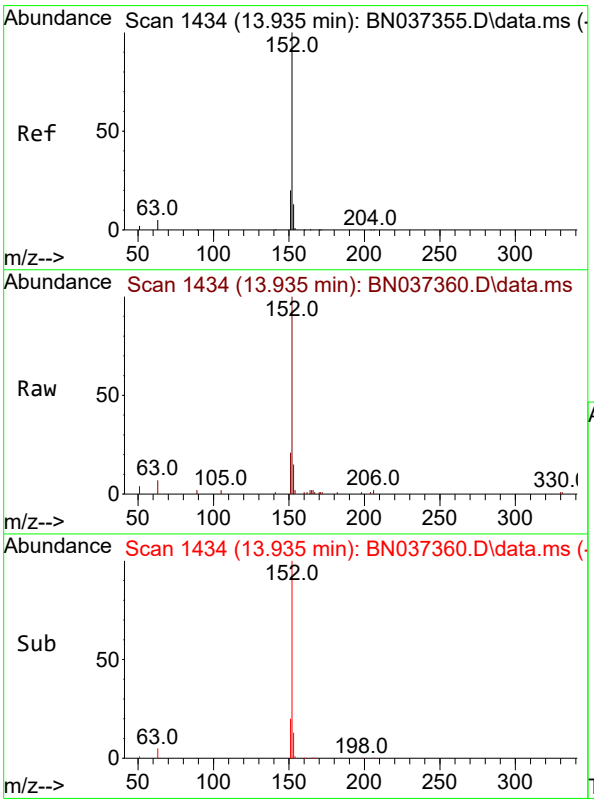
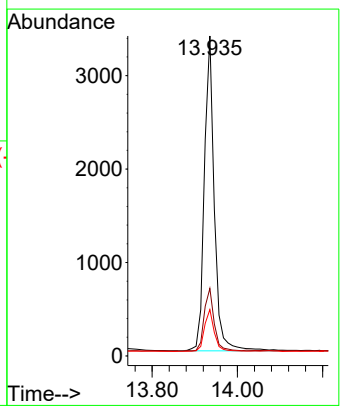
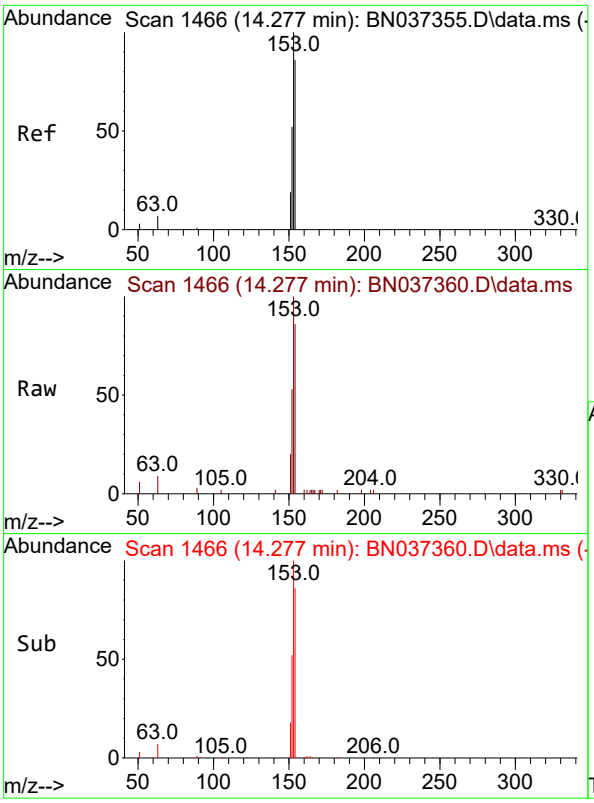


#16
Acenaphthylene
Concen: 0.376 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:152 Resp: 5463

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8
153	13.3	10.2	15.2

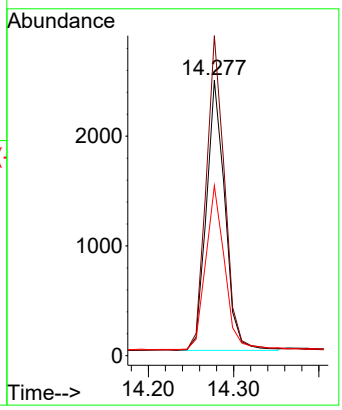




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:154 Resp: 372

Ion	Ratio	Lower	Upper
154	100		
153	117.1	93.1	139.7
152	62.3	48.6	73.0



Instrument :
BNA_N
ClientSampleId :
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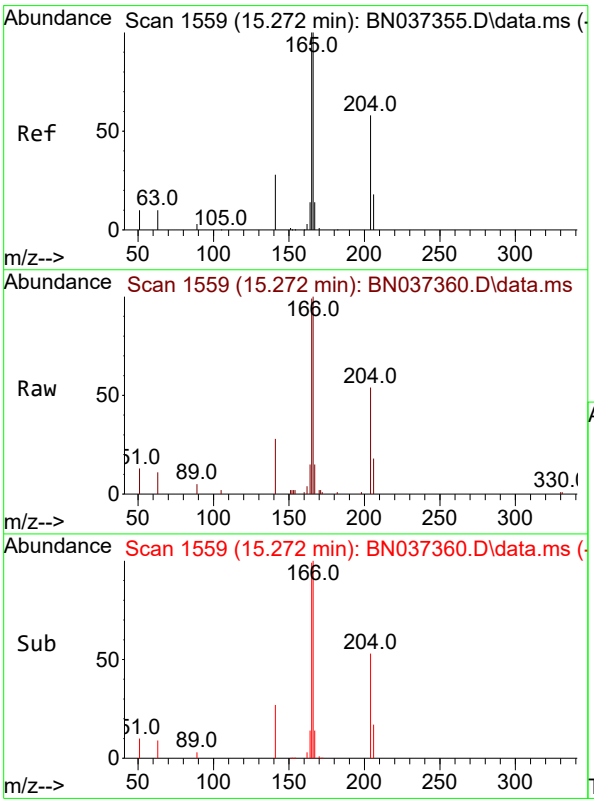
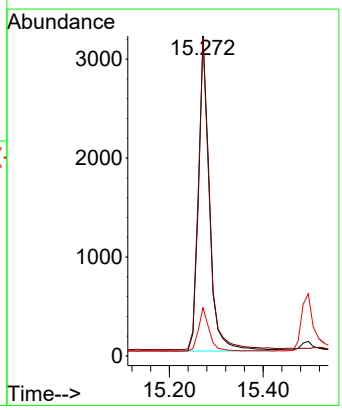
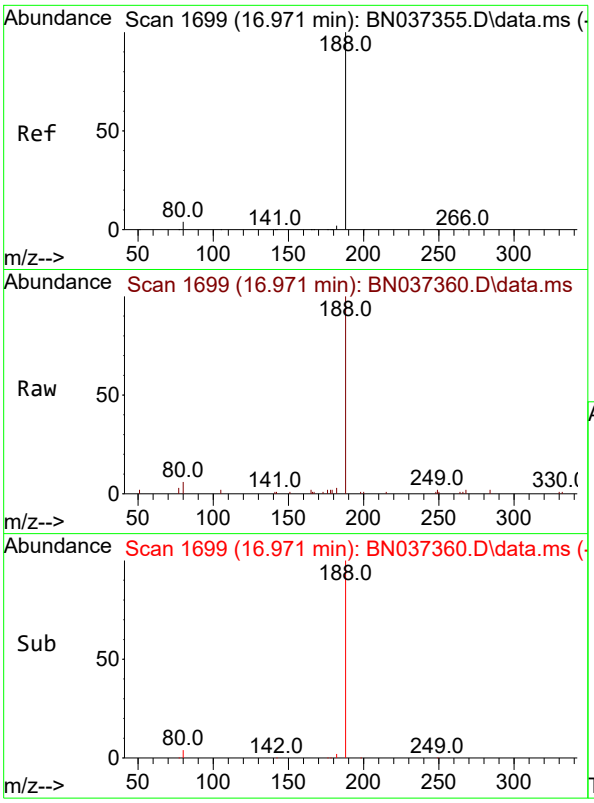


#18
Fluorene
Concen: 0.386 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:166 Resp: 5193

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.5	119.3
167	13.4	10.7	16.1

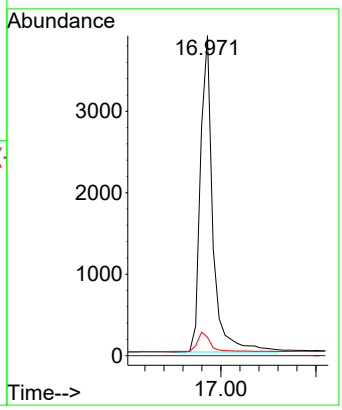




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:188 Resp: 706

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	6.2	9.2



Instrument :
BNA_N
ClientSampleId :
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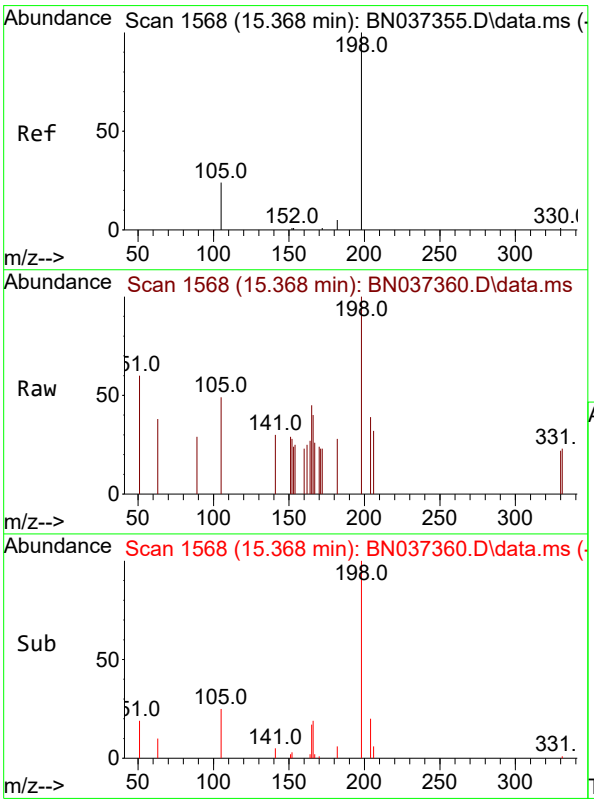
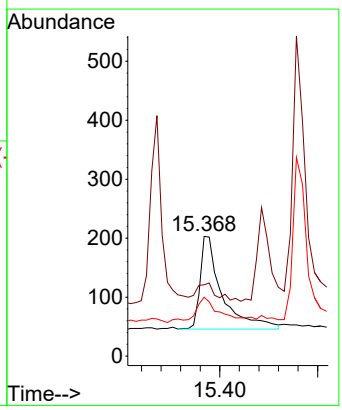
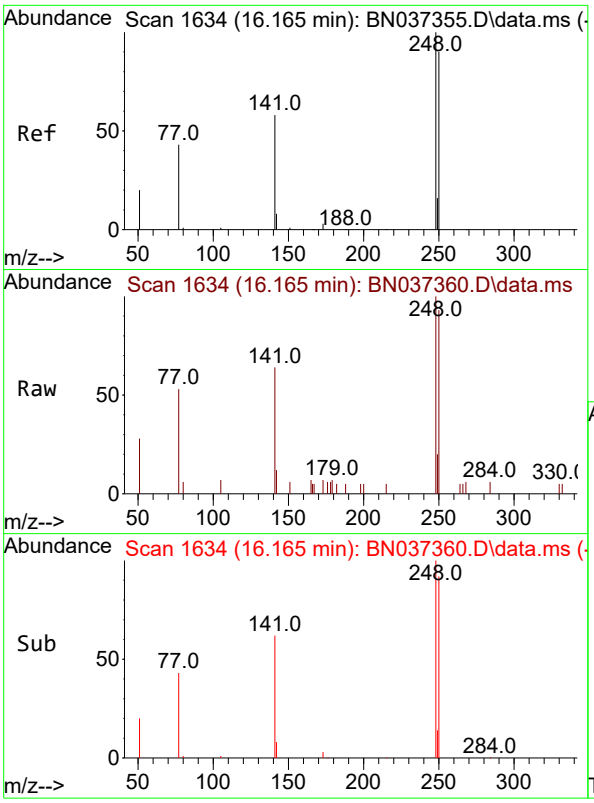


#20
4,6-Dinitro-2-methylphenol
Concen: 0.289 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:198 Resp: 491

Ion	Ratio	Lower	Upper
198	100		
51	59.6	51.4	77.0
105	49.3	45.5	68.3





#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.165 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:248 Resp: 190

Ion	Ratio	Lower	Upper
248	100		
250	92.7	80.4	120.6
141	64.3	33.3	49.9

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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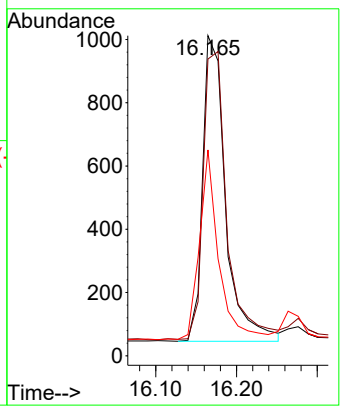
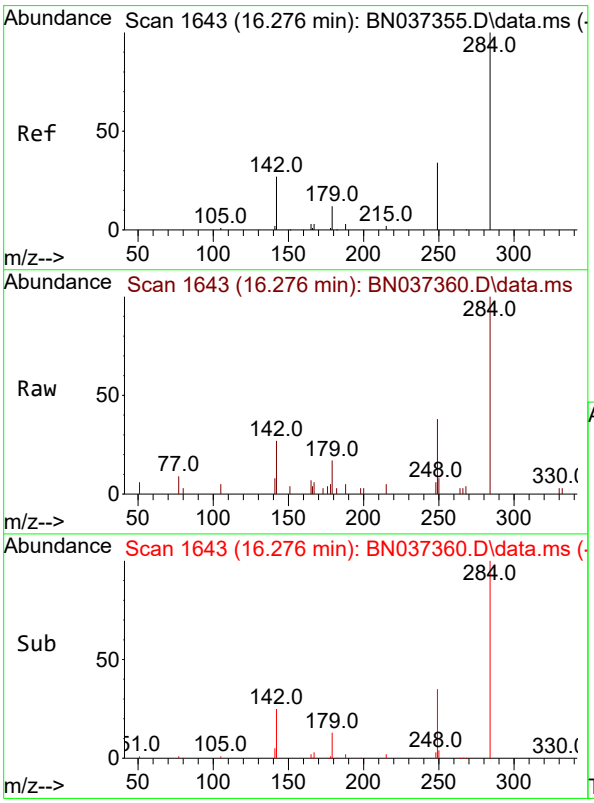
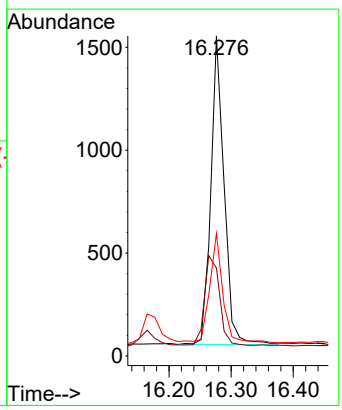


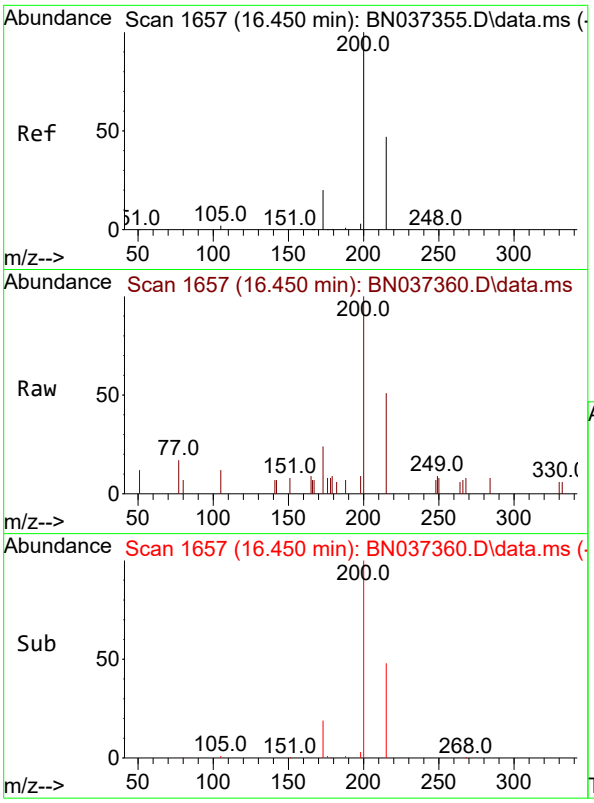


#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:284 Resp: 2222

Ion	Ratio	Lower	Upper
284	100		
142	33.0	27.0	40.6
249	35.0	28.8	43.2

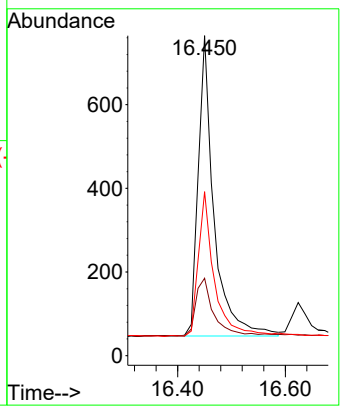




#23
Atrazine
Concen: 0.362 ng
RT: 16.450 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:200 Resp: 145

Ion	Ratio	Lower	Upper
200	100		
173	24.2	29.2	43.8#
215	51.2	48.8	73.2



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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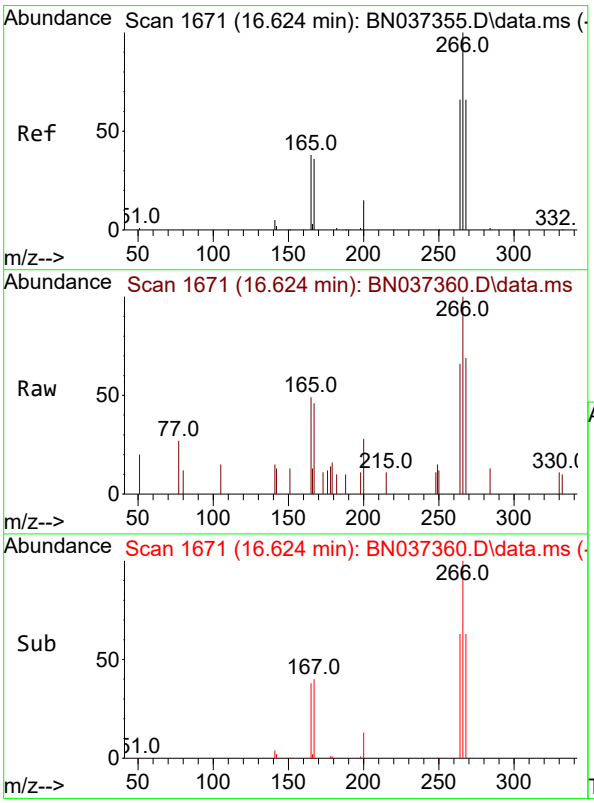
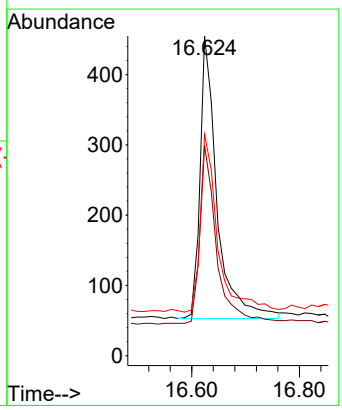
Supervised By :Jagrut Upadhyay 06/24/2025

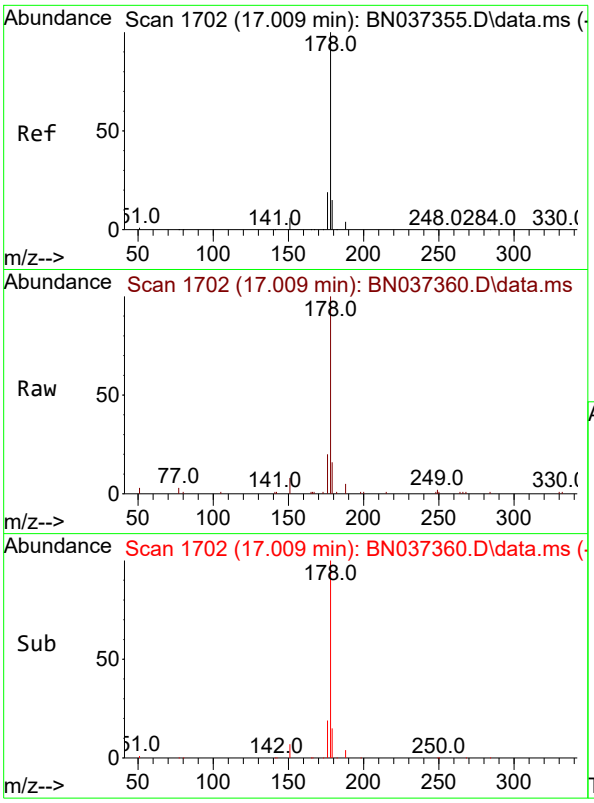


#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:266 Resp: 881

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.3	75.5
268	65.0	55.3	82.9

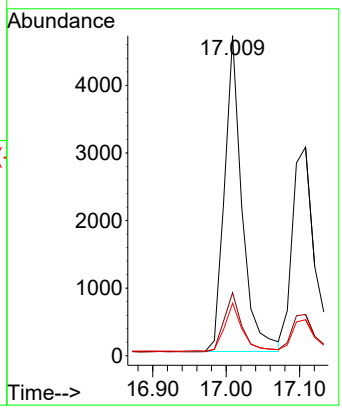




#25
Phenanthrene
Concen: 0.378 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:178 Resp: 774

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.5	12.9	19.3



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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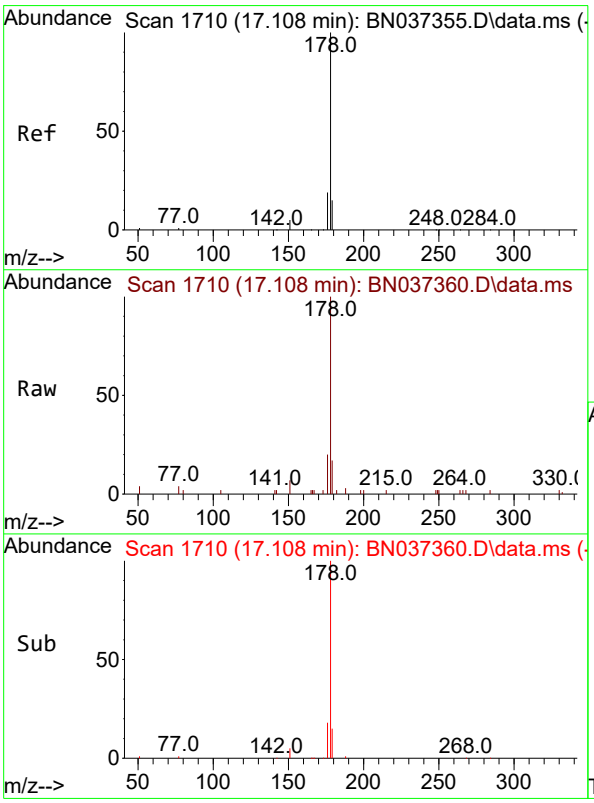
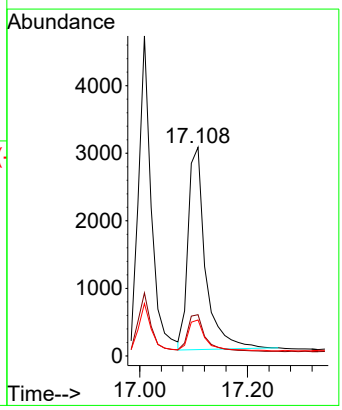
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

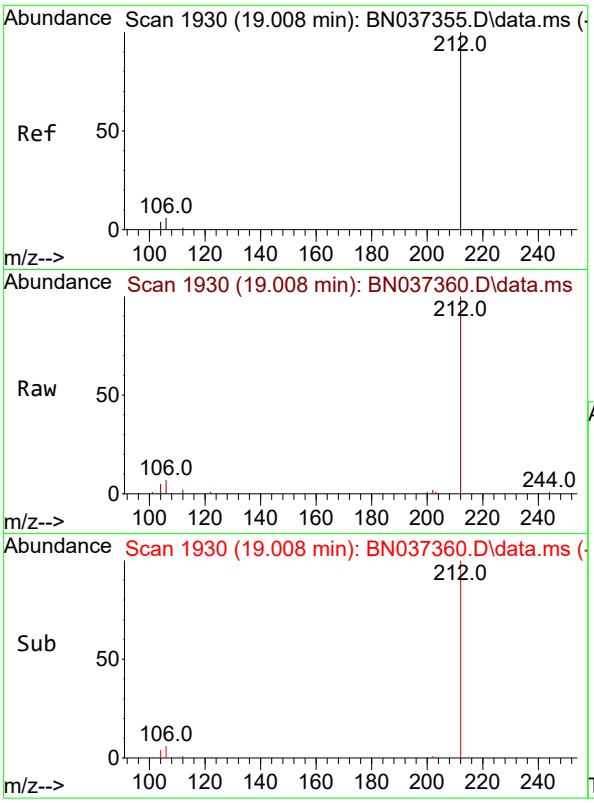


#26
Anthracene
Concen: 0.357 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:178 Resp: 6739

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.7	22.1
179	15.7	13.0	19.6





#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 19.008 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:212 Resp: 794

Ion	Ratio	Lower	Upper
212	100		
106	6.2	3.0	4.4#
104	3.9	2.0	3.0#

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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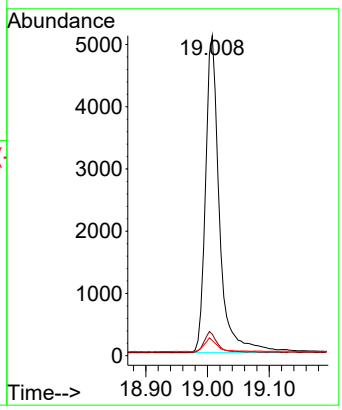
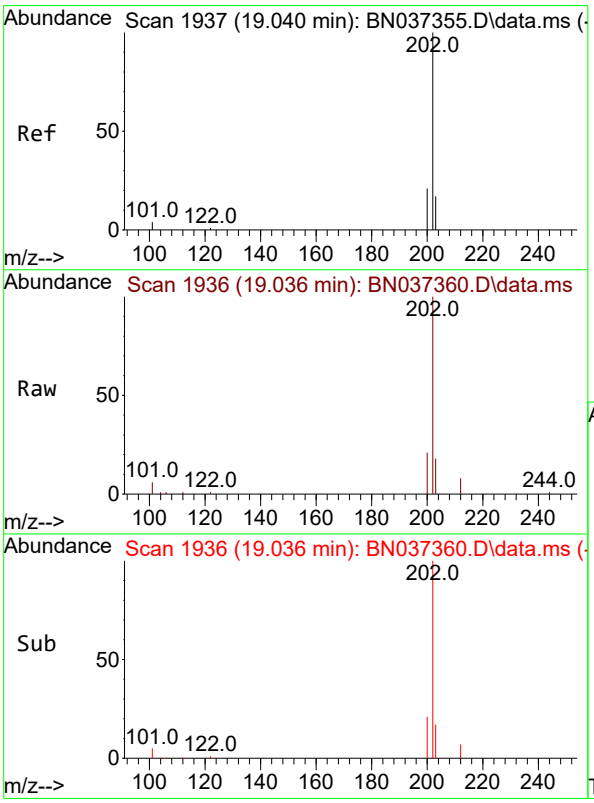
Supervised By :Jagrut Upadhyay 06/24/2025

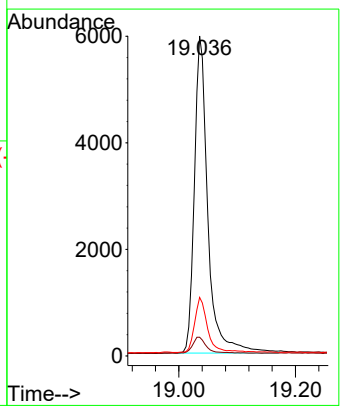


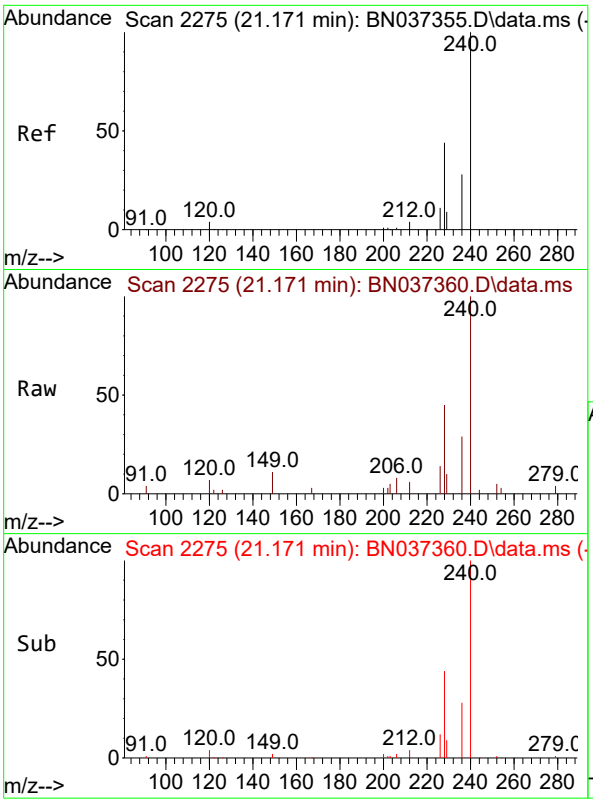


#28
Fluoranthene
Concen: 0.369 ng
RT: 19.036 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:202 Resp: 9535

Ion	Ratio	Lower	Upper
202	100		
101	5.3	3.0	4.6#
203	16.8	13.7	20.5

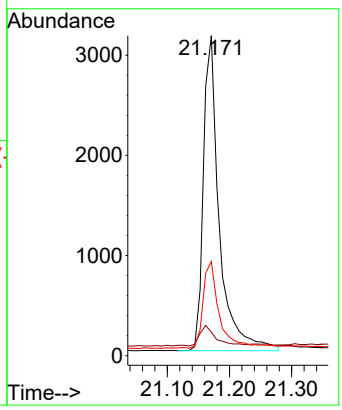




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:240 Resp: 556

Ion	Ratio	Lower	Upper
240	100		
120	7.3	7.5	11.3#
236	29.5	24.9	37.3



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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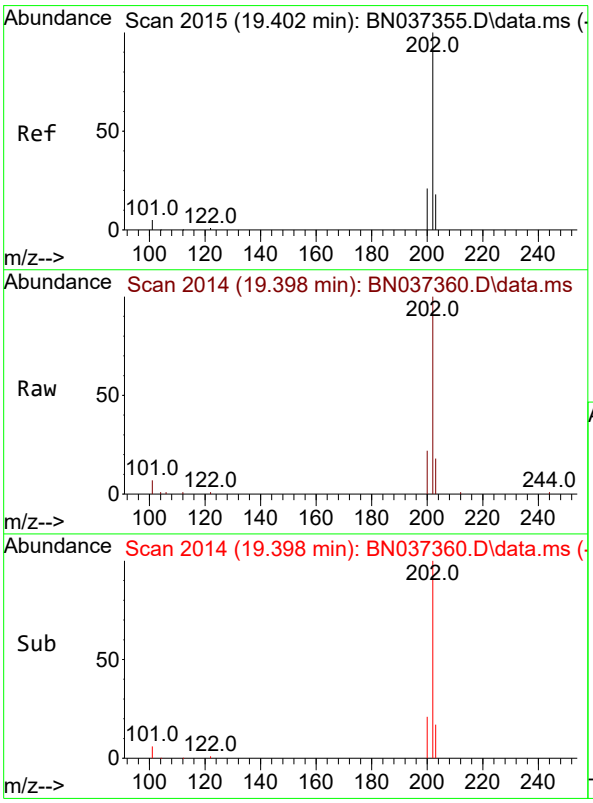
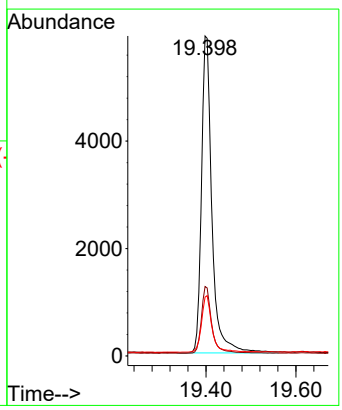
Supervised By :Jagrut Upadhyay 06/24/2025

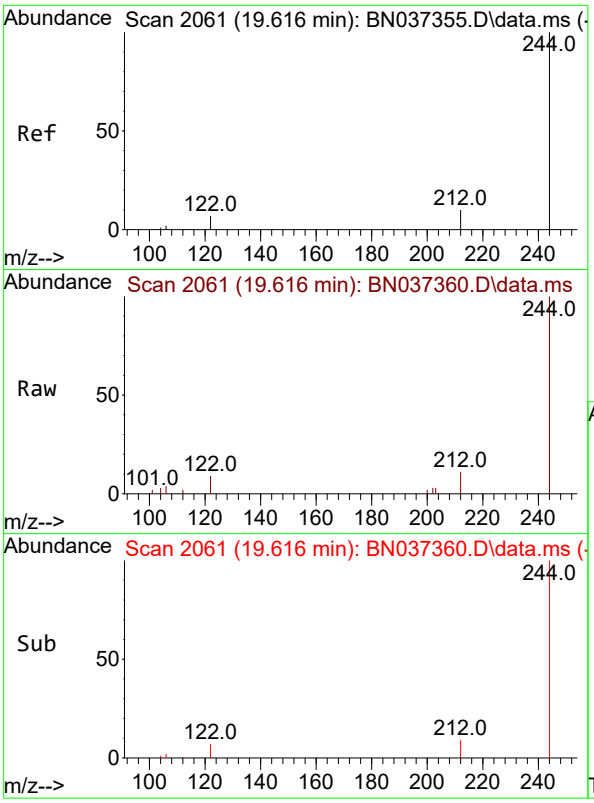


#30
Pyrene
Concen: 0.424 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:202 Resp: 9570

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.8	25.2
203	18.0	14.5	21.7

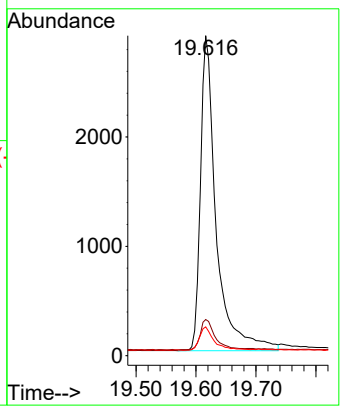




#31
Terphenyl-d14
Concen: 0.416 ng
RT: 19.616 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:244 Resp: 526

Ion	Ratio	Lower	Upper
244	100		
212	11.3	11.1	16.7
122	9.0	7.2	10.8



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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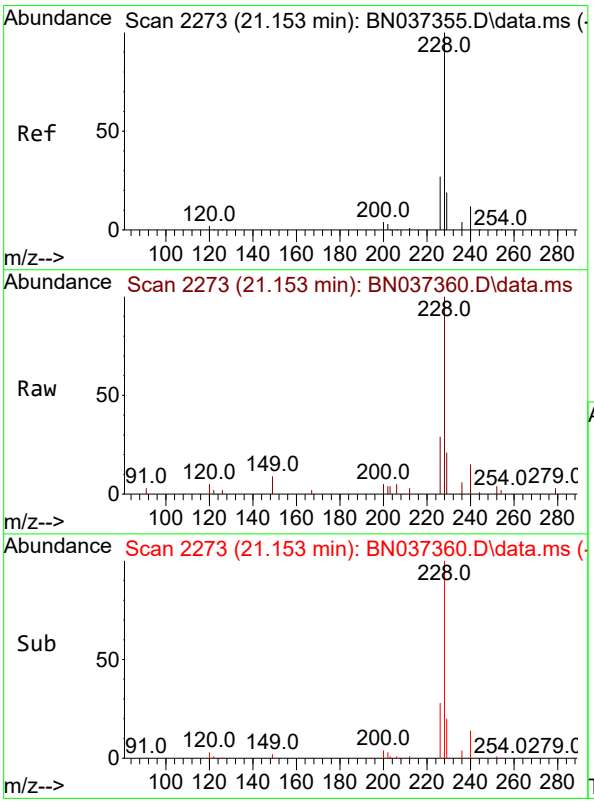
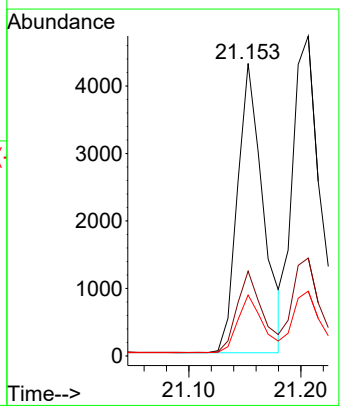
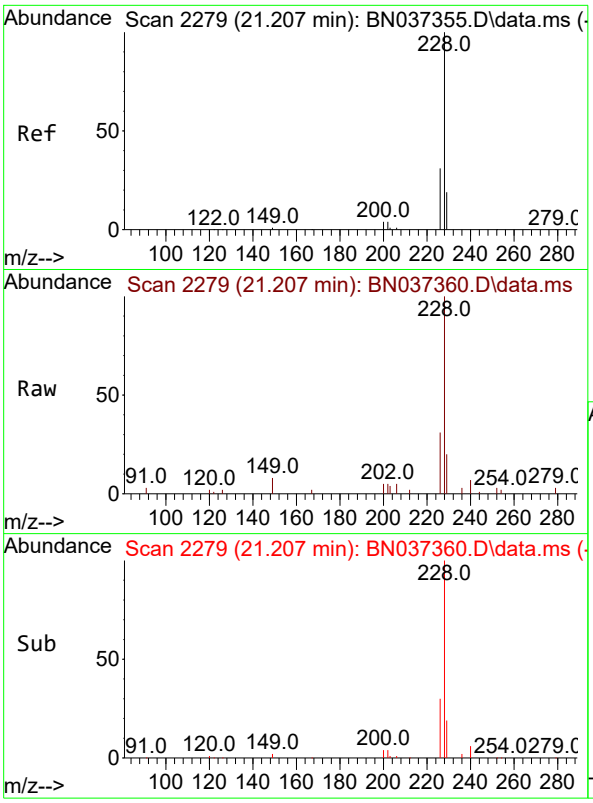


#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:228 Resp: 6805

Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.0	34.4
229	20.9	17.4	26.0

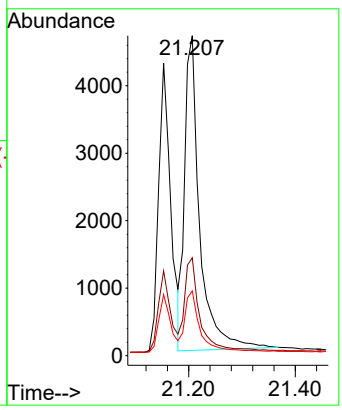




#33
Chrysene
Concen: 0.412 ng
RT: 21.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:228 Resp: 911

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.4	38.2
229	20.3	17.3	25.9



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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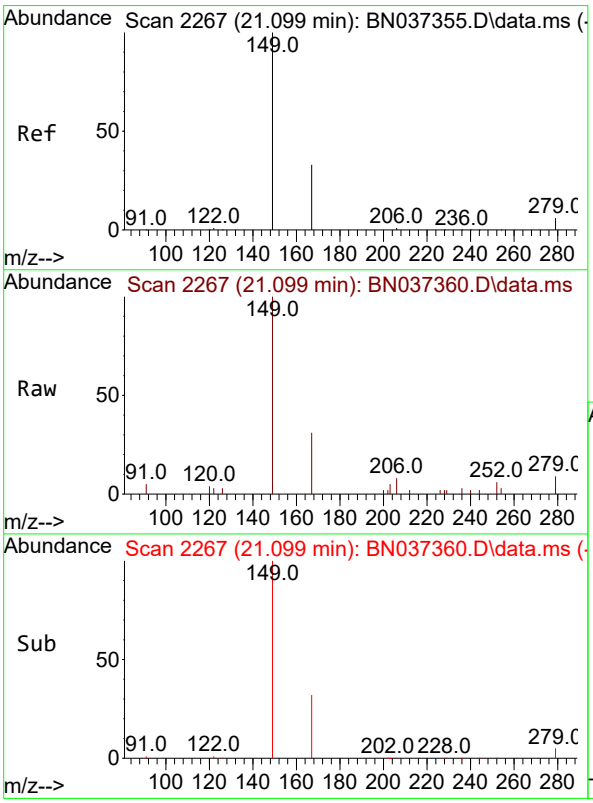
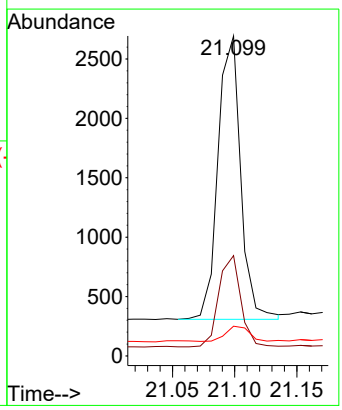
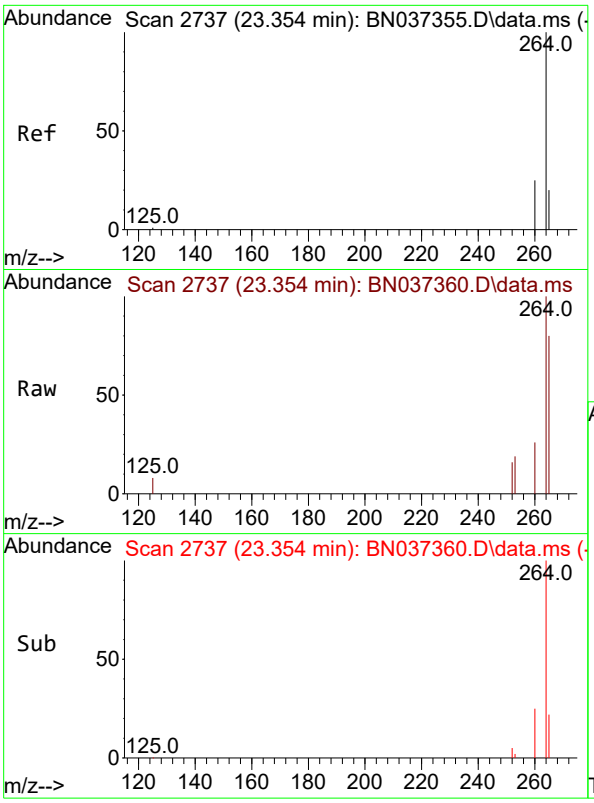


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.403 ng
RT: 21.099 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:149 Resp: 3022

Ion	Ratio	Lower	Upper
149	100		
167	31.4	24.6	37.0
279	5.6	6.5	9.7#

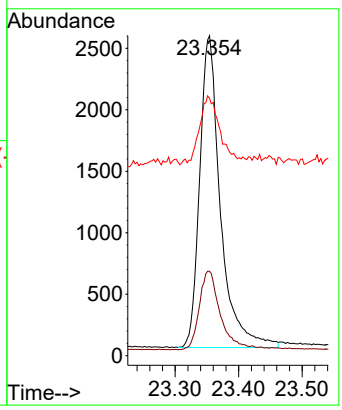




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:264 Resp: 575

Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.4	32.2
265	80.4	71.4	107.0



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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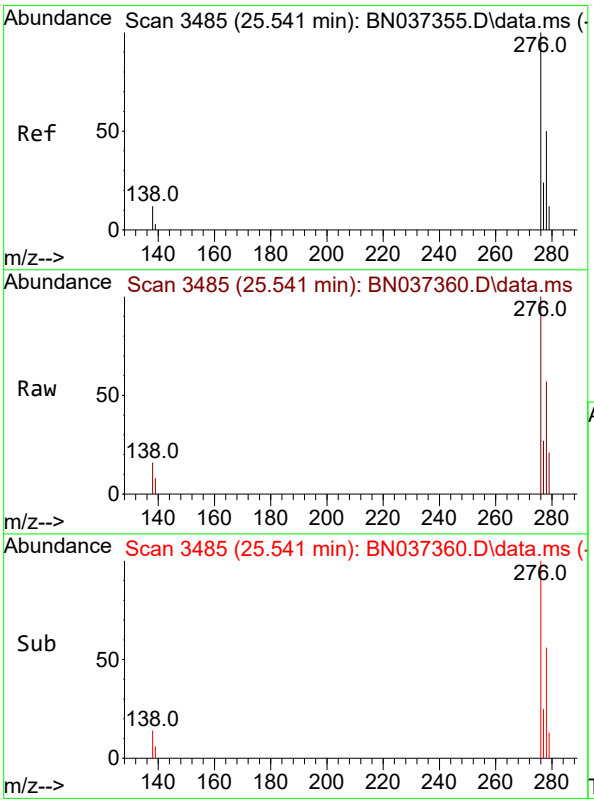
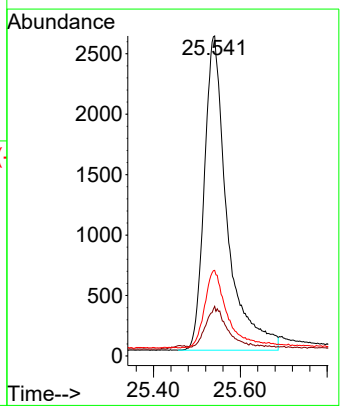
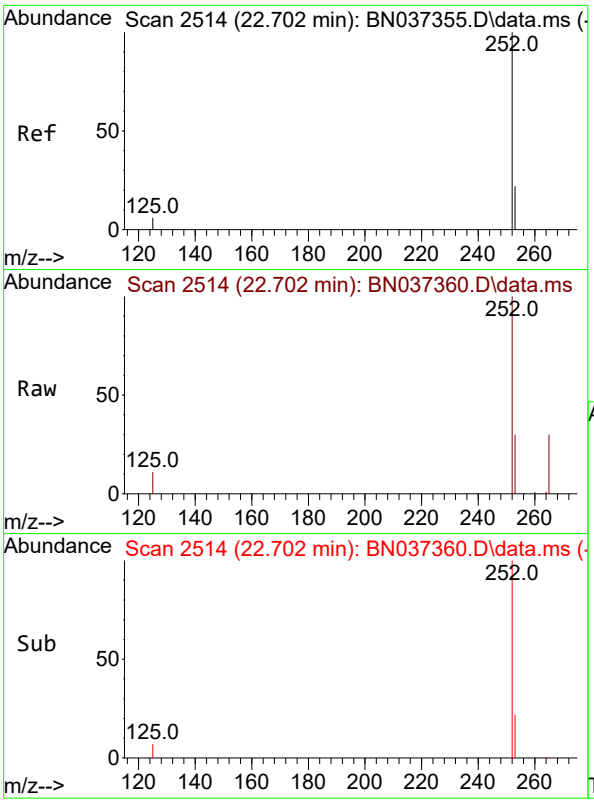


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.368 ng
RT: 25.541 min Scan# 3485
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:276 Resp: 9492

Ion	Ratio	Lower	Upper
276	100		
138	11.7	2.2	3.2#
277	24.2	17.1	25.7

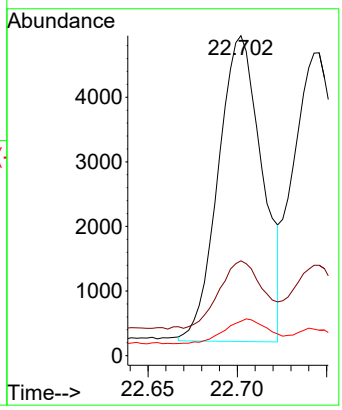




#37
Benzo(b)fluoranthene
Concen: 0.382 ng m
RT: 22.702 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:252 Resp: 808

Ion	Ratio	Lower	Upper
252	100		
253	29.6	26.6	40.0
125	10.7	6.1	9.1



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

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Reviewed By :Rahul Chavli 06/23/2025
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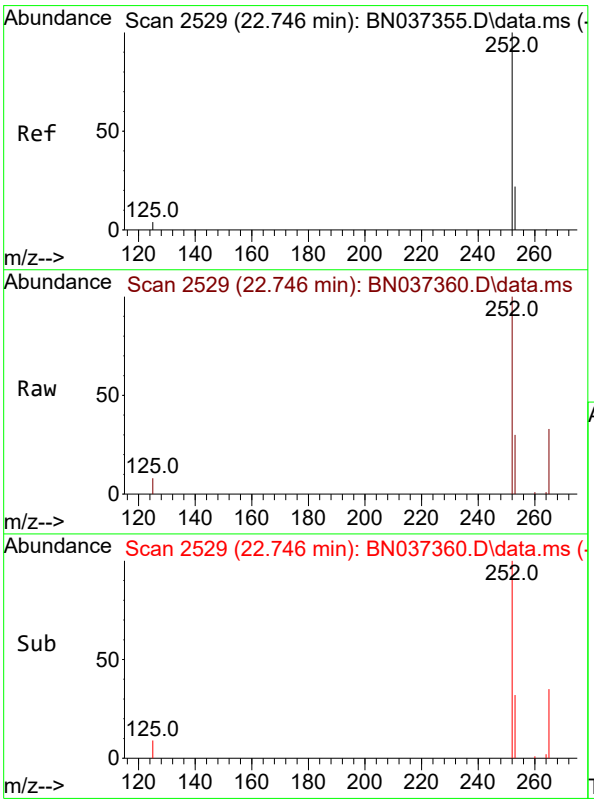
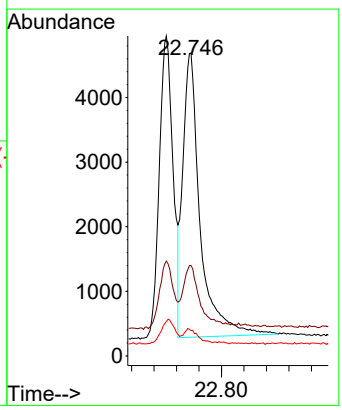
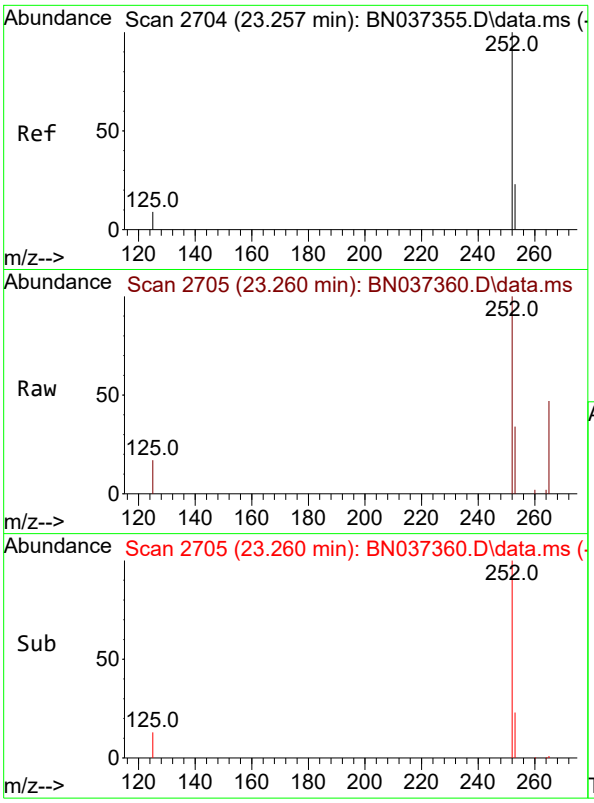


#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:252 Resp: 9472

Ion	Ratio	Lower	Upper
252	100		
253	29.9	26.7	40.1
125	8.4	6.5	9.7

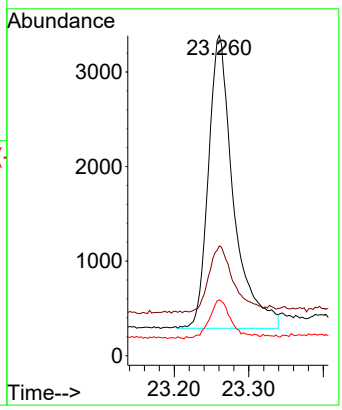




#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 23.260 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:252 Resp: 725

Ion	Ratio	Lower	Upper
252	100		
253	34.3	31.6	47.4
125	17.4	8.4	12.6#



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Manual Integrations
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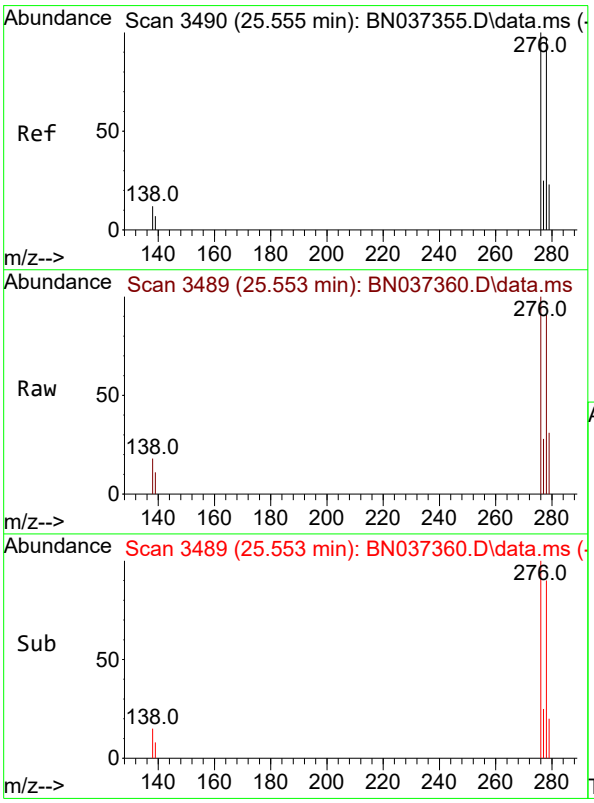
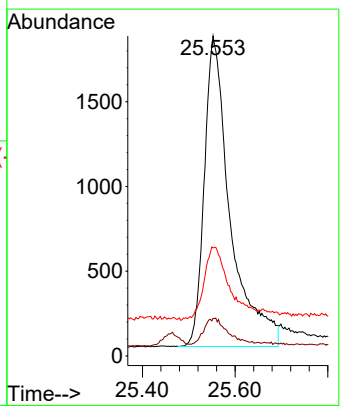
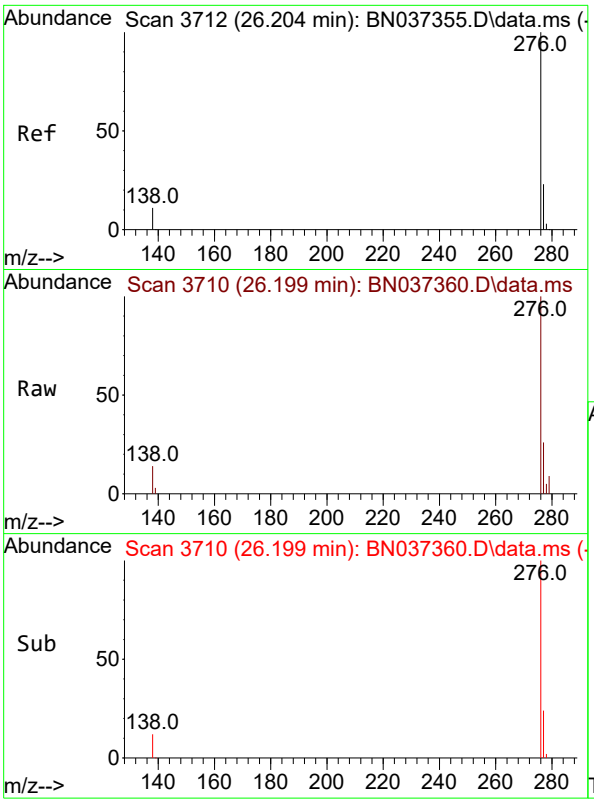


#40
Dibenzo(a,h)anthracene
Concen: 0.367 ng
RT: 25.553 min Scan# 3489
Delta R.T. -0.003 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:278 Resp: 7116

Ion	Ratio	Lower	Upper
278	100		
139	11.8	10.2	15.4
279	33.7	35.6	53.4#

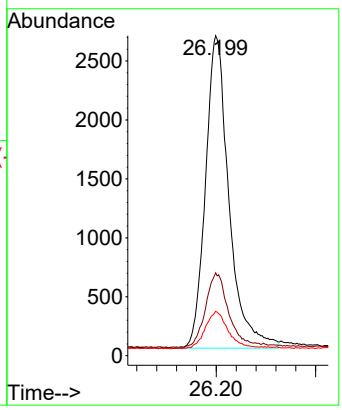




#41
Benzo(g,h,i)perylene
Concen: 0.378 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:276 Resp: 870

Ion	Ratio	Lower	Upper
276	100		
277	25.9	22.7	34.1
138	13.9	9.4	14.2



Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Manual Integrations
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Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 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	121	0.00
2		1,4-Dioxane	0.407	0.408	-0.2	126	0.00
3		n-Nitrosodimethylamine	0.373	0.366	1.9	112	0.00
4	S	2-Fluorophenol	0.799	0.797	0.3	128	0.00
5	S	Phenol-d6	0.823	0.778	5.5	123	0.00
6		bis(2-Chloroethyl)ether	0.730	0.744	-1.9	127	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
8	S	Nitrobenzene-d5	0.323	0.327	-1.2	125	0.00
9		Naphthalene	1.056	1.054	0.2	123	0.00
10		Hexachlorobutadiene	0.417	0.426	-2.2	118	0.00
11	SURR	2-Methylnaphthalene-d10	0.648	0.670	-3.4	123	0.00
12		2-Methylnaphthalene	0.736	0.715	2.9	122	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	123	0.00
14	S	2,4,6-Tribromophenol	0.235	0.219	6.8	117	0.00
15	S	2-Fluorobiphenyl	1.757	1.750	0.4	121	0.00
16		Acenaphthylene	1.682	1.580	6.1	122	0.00
17		Acenaphthene	1.107	1.076	2.8	125	0.00
18		Fluorene	1.556	1.502	3.5	123	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
20		4,6-Dinitro-2-methylphenol	0.096	0.069	28.1#	107	0.00
21		4-Bromophenyl-phenylether	0.285	0.270	5.3	118	0.00
22		Hexachlorobenzene	0.310	0.315	-1.6	122	0.00
23		Atrazine	0.227	0.206	9.3	115	0.00
24		Pentachlorophenol	0.154	0.125	18.8	111	0.00
25		Phenanthrene	1.158	1.096	5.4	121	0.00
26		Anthracene	1.068	0.954	10.7	118	0.00
27	SURR	Fluoranthene-d10	1.148	1.124	2.1	118	0.00
28		Fluoranthene	1.464	1.350	7.8	121	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	116	0.00
30		Pyrene	1.625	1.721	-5.9	120	0.00
31	S	Terphenyl-d14	0.912	0.947	-3.8	118	0.00
32		Benzo(a)anthracene	1.315	1.224	6.9	116	0.00
33		Chrysene	1.594	1.640	-2.9	118	0.00
34		Bis(2-ethylhexyl)phthalate	0.540	0.544	-0.7	116	0.00
35	I	Perylene-d12	1.000	1.000	0.0	116	0.00
36		Indeno(1,2,3-cd)pyrene	1.794	1.649	8.1	113	0.00
37		Benzo(b)fluoranthene	1.472	1.404	4.6	113	0.00
38		Benzo(k)fluoranthene	1.597	1.646	-3.1	122	0.00
39	C	Benzo(a)pyrene	1.319	1.261	4.4	115	0.00
40		Dibenzo(a,h)anthracene	1.348	1.236	8.3	117	0.00
41		Benzo(g,h,i)perylene	1.603	1.513	5.6	111	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 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	121	0.00
2		1,4-Dioxane	0.400	0.401	-0.3	126	0.00
3		n-Nitrosodimethylamine	0.400	0.393	1.8	112	0.00
4	S	2-Fluorophenol	0.400	0.399	0.3	128	0.00
5	S	Phenol-d6	0.400	0.378	5.5	123	0.00
6		bis(2-Chloroethyl)ether	0.400	0.407	-1.7	127	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	122	0.00
8	S	Nitrobenzene-d5	0.400	0.405	-1.3	125	0.00
9		Naphthalene	0.400	0.399	0.3	123	0.00
10		Hexachlorobutadiene	0.400	0.409	-2.2	118	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.414	-3.5	123	0.00
12		2-Methylnaphthalene	0.400	0.388	3.0	122	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	123	0.00
14	S	2,4,6-Tribromophenol	0.400	0.373	6.8	117	0.00
15	S	2-Fluorobiphenyl	0.400	0.398	0.5	121	0.00
16		Acenaphthylene	0.400	0.376	6.0	122	0.00
17		Acenaphthene	0.400	0.389	2.8	125	0.00
18		Fluorene	0.400	0.386	3.5	123	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	122	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.289	27.8#	107	0.00
21		4-Bromophenyl-phenylether	0.400	0.379	5.3	118	0.00
22		Hexachlorobenzene	0.400	0.406	-1.5	122	0.00
23		Atrazine	0.400	0.362	9.5	115	0.00
24		Pentachlorophenol	0.400	0.323	19.3	111	0.00
25		Phenanthrene	0.400	0.378	5.5	121	0.00
26		Anthracene	0.400	0.357	10.8	118	0.00
27	SURR	Fluoranthene-d10	0.400	0.392	2.0	118	0.00
28		Fluoranthene	0.400	0.369	7.8	121	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	116	0.00
30		Pyrene	0.400	0.424	-6.0	120	0.00
31	S	Terphenyl-d14	0.400	0.416	-4.0	118	0.00
32		Benzo(a)anthracene	0.400	0.372	7.0	116	0.00
33		Chrysene	0.400	0.412	-3.0	118	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.403	-0.8	116	0.00
35	I	Perylene-d12	0.400	0.400	0.0	116	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.368	8.0	113	0.00
37		Benzo(b)fluoranthene	0.400	0.382	4.5	113	0.00
38		Benzo(k)fluoranthene	0.400	0.412	-3.0	122	0.00
39	C	Benzo(a)pyrene	0.400	0.382	4.5	115	0.00
40		Dibenzo(a,h)anthracene	0.400	0.367	8.3	117	0.00
41		Benzo(g,h,i)perylene	0.400	0.378	5.5	111	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 26 16:06:33 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037386.D 0.2 =BN037387.D 0.4 =BN037388.D 0.8 =BN037389.D 1.6 =BN037390.D 3.2 =BN037391.D 5 =BN037392.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane		0.470	0.369	0.366	0.377	0.363	0.331	0.379	12.38
3)		n-Nitrosodimet...		0.377	0.374	0.366	0.385	0.374	0.371	0.375	1.73
4)	S	2-Fluorophenol	0.771	0.778	0.804	0.697	0.754	0.773	0.818	0.771	5.09
5)	S	Phenol-d6	0.663	0.706	0.812	0.737	0.839	0.886	0.951	0.799	12.86
6)		bis(2-Chloroet...	0.574	0.661	0.718	0.694	0.765	0.775	0.790	0.711	10.74
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.270	0.281	0.311	0.296	0.345	0.353	0.389	0.321	13.45
9)		Naphthalene	1.042	1.001	0.999	0.972	1.048	1.050	1.096	1.030	4.06
10)		Hexachlorobuta...	0.407	0.410	0.413	0.400	0.422	0.404	0.405	0.409	1.74
11)	SURR	2-Methylnaphth...	0.532	0.567	0.576	0.568	0.628	0.656	0.807	0.619	14.98
12)		2-Methylnaphth...	0.635	0.665	0.684	0.662	0.746	0.767	0.803	0.709	8.89
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.194	0.207	0.239	0.225	0.251	0.256	0.271	0.235	11.68
15)	S	2-Fluorobiphenyl	1.548	1.656	1.723	1.652	1.798	1.801	1.910	1.727	6.95
16)		Acenaphthylene	1.585	1.600	1.576	1.538	1.714	1.741	1.858	1.659	6.95
17)		Acenaphthene	1.030	1.027	1.045	1.009	1.123	1.147	1.203	1.083	6.85
18)		Fluorene	1.444	1.417	1.476	1.420	1.603	1.643	1.706	1.530	7.74
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.084	0.085	0.087	0.113	0.119	0.128	0.103	19.13
21)		4-Bromophenyl-...	0.264	0.253	0.270	0.269	0.303	0.302	0.316	0.282	8.58
22)		Hexachlorobenzene	0.310	0.299	0.302	0.291	0.311	0.301	0.311	0.303	2.45
23)		Atrazine	0.200	0.208	0.213	0.204	0.232	0.242	0.266	0.224	10.81
24)		Pentachlorophenol		0.164	0.155	0.148	0.165	0.168	0.183	0.164	7.30
25)		Phenanthrene	1.056	1.067	1.080	1.038	1.172	1.190	1.287	1.127	8.12
26)		Anthracene	0.935	0.972	0.969	0.959	1.076	1.120	1.222	1.036	10.28
27)	SURR	Fluoranthene-d10	1.073	1.137	1.063	1.028	1.121	1.154	1.447	1.146	12.22
28)		Fluoranthene	1.377	1.398	1.362	1.320	1.487	1.507	1.624	1.439	7.32
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.459	1.449	1.534	1.431	1.561	1.550	1.612	1.514	4.47
31)	S	Terphenyl-d14	0.800	0.794	0.868	0.796	0.878	0.892	0.943	0.853	6.77
32)		Benzo(a)anthra...	1.149	1.202	1.167	1.152	1.318	1.364	1.446	1.257	9.46
33)		Chrysene	1.630	1.573	1.583	1.491	1.554	1.510	1.551	1.556	2.98
34)		Bis(2-ethylhex...		0.509	0.504	0.466	0.481	0.488	0.537	0.498	5.00
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062625.M

36)		Indeno(1,2,3-c...	1.487	1.515	1.577	1.620	1.786	1.853	1.967	1.686	10.88
37)		Benzo(b)fluora...	1.329	1.305	1.318	1.320	1.464	1.504	1.632	1.410	8.93
38)		Benzo(k)fluora...	1.408	1.389	1.462	1.430	1.552	1.613	1.697	1.507	7.73
39)	C	Benzo(a)pyrene	1.211	1.160	1.183	1.174	1.286	1.341	1.426	1.254	8.01
40)		Dibenzo(a,h)an...	1.050	1.138	1.211	1.229	1.394	1.485	1.561	1.296	14.53
41)		Benzo(g,h,i)pe...	1.425	1.473	1.477	1.462	1.617	1.658	1.725	1.548	7.51

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037386.D
Acq On : 26 Jun 2025 10:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

Quant Time: Jun 26 16:03:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:02:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.560	152	2183	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4628	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	2945	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5811	0.400	ng		0.01
29) Chrysene-d12	21.171	240	5498	0.400	ng		0.00
35) Perylene-d12	23.348	264	5798	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	421	0.100	ng		0.00
5) Phenol-d6	6.744	99	362	0.083	ng		0.00
8) Nitrobenzene-d5	8.728	82	312m	0.085	ng		0.01
11) 2-Methylnaphthalene-d10	11.955	152	615	0.086	ng		0.02
14) 2,4,6-Tribromophenol	15.730	330	143	0.083	ng		0.01
15) 2-Fluorobiphenyl	12.843	172	1140	0.090	ng		0.01
27) Fluoranthene-d10	19.008	212	1559	0.094	ng		0.00
31) Terphenyl-d14	19.625	244	1099	0.094	ng		0.00
Target Compounds							Qvalue
6) bis(2-Chloroethyl)ether	7.004	93	313	0.081	ng	#	85
9) Naphthalene	10.394	128	1206	0.101	ng	#	86
10) Hexachlorobutadiene	10.682	225	471	0.100	ng	#	98
12) 2-Methylnaphthalene	12.026	142	735	0.090	ng		96
16) Acenaphthylene	13.935	152	1167	0.096	ng		97
17) Acenaphthene	14.277	154	758	0.095	ng		98
18) Fluorene	15.272	166	1063	0.094	ng		100
21) 4-Bromophenyl-phenylether	16.177	248	383	0.093	ng	#	93
22) Hexachlorobenzene	16.276	284	450	0.102	ng		98
23) Atrazine	16.462	200	291	0.090	ng	#	73
25) Phenanthrene	17.009	178	1534	0.094	ng		97
26) Anthracene	17.108	178	1358	0.090	ng		100
28) Fluoranthene	19.040	202	2001	0.096	ng		99
30) Pyrene	19.402	202	2006	0.096	ng		99
32) Benzo(a)anthracene	21.153	228	1579	0.091	ng		92
33) Chrysene	21.198	228	2241	0.105	ng		94
36) Indeno(1,2,3-cd)pyrene	25.535	276	2156	0.088	ng	#	90
37) Benzo(b)fluoranthene	22.699	252	1927	0.094	ng	#	66
38) Benzo(k)fluoranthene	22.740	252	2041	0.093	ng	#	61
39) Benzo(a)pyrene	23.254	252	1755	0.097	ng	#	52
40) Dibenzo(a,h)anthracene	25.567	278	1522	0.081	ng	#	41
41) Benzo(g,h,i)perylene	26.193	276	2066	0.092	ng	#	87

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

ICAL Form

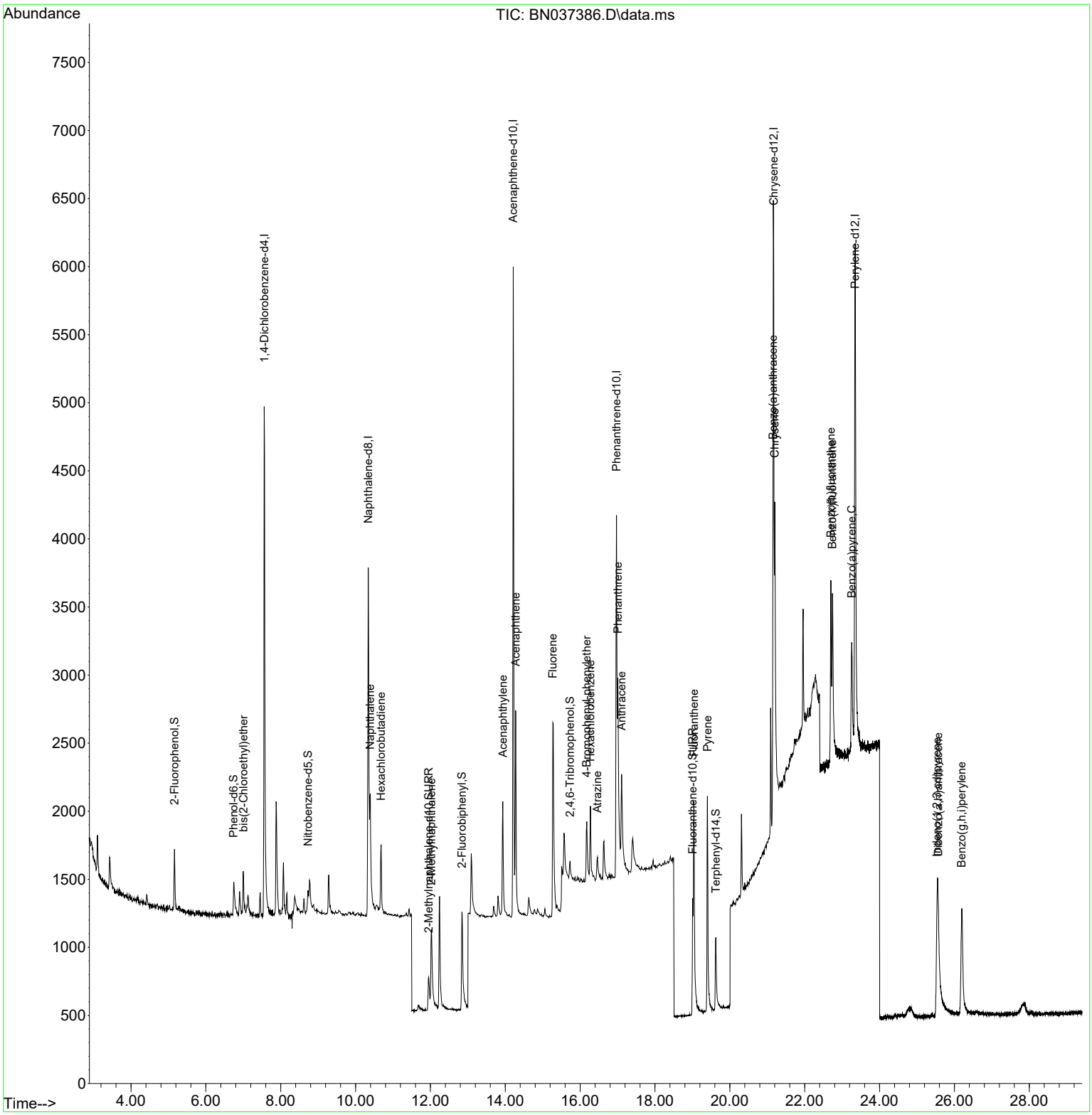
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037386.D
Acq On : 26 Jun 2025 10:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

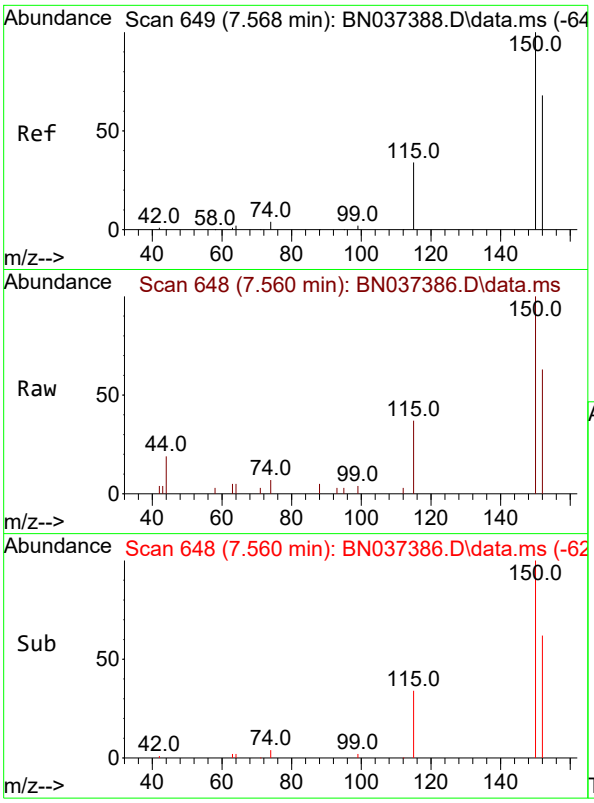
Quant Time: Jun 26 16:03:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:02:41 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

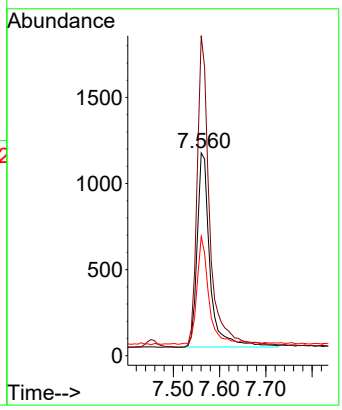




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:152 Resp: 218

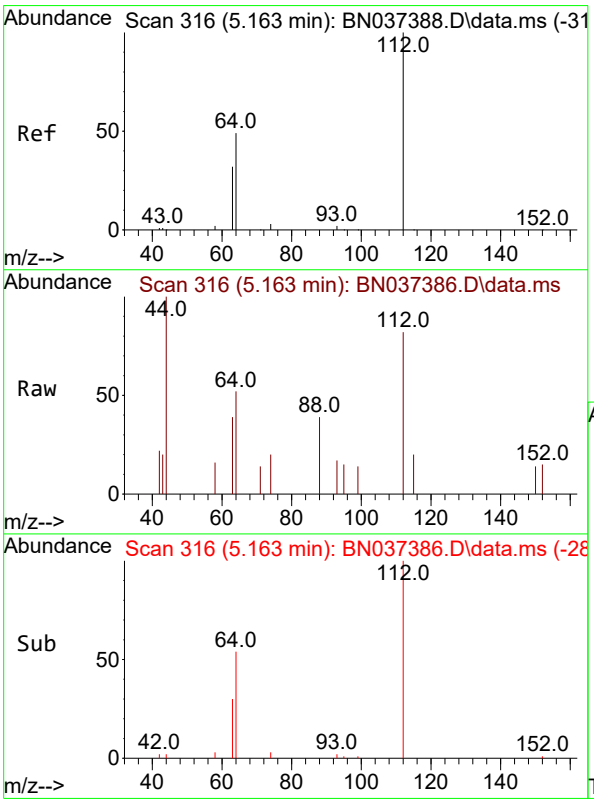
Ion	Ratio	Lower	Upper
152	100		
150	157.8	116.2	174.2
115	58.7	42.9	64.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

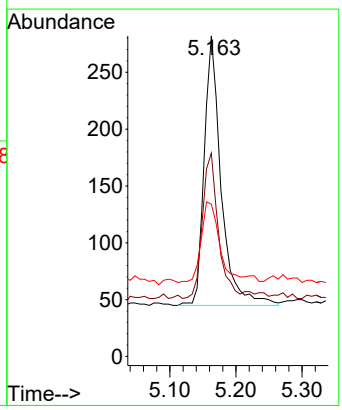
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

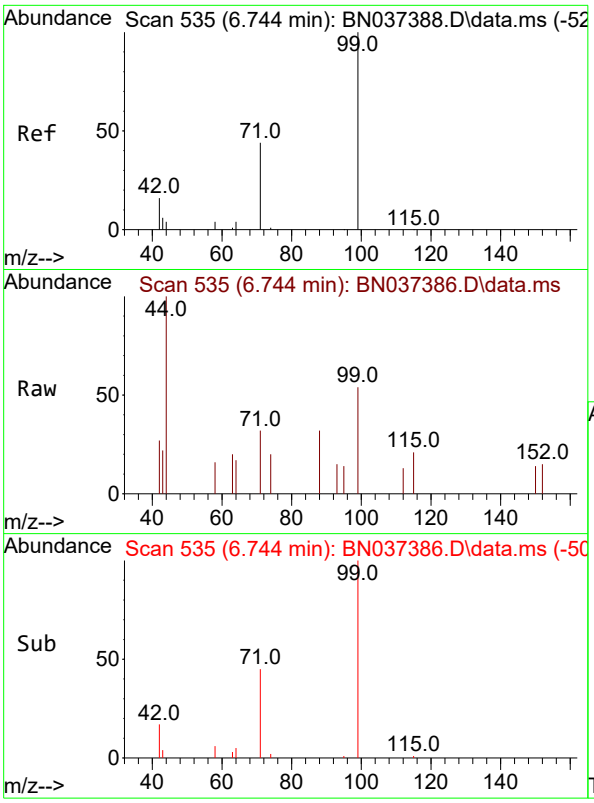


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:112 Resp: 421

Ion	Ratio	Lower	Upper
112	100		
64	50.6	40.3	60.5
63	34.0	26.1	39.1

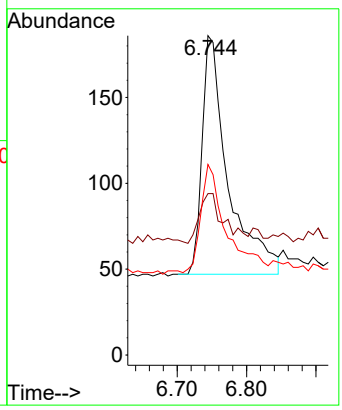




#5
Phenol-d6
Concen: 0.083 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 99 Resp: 36

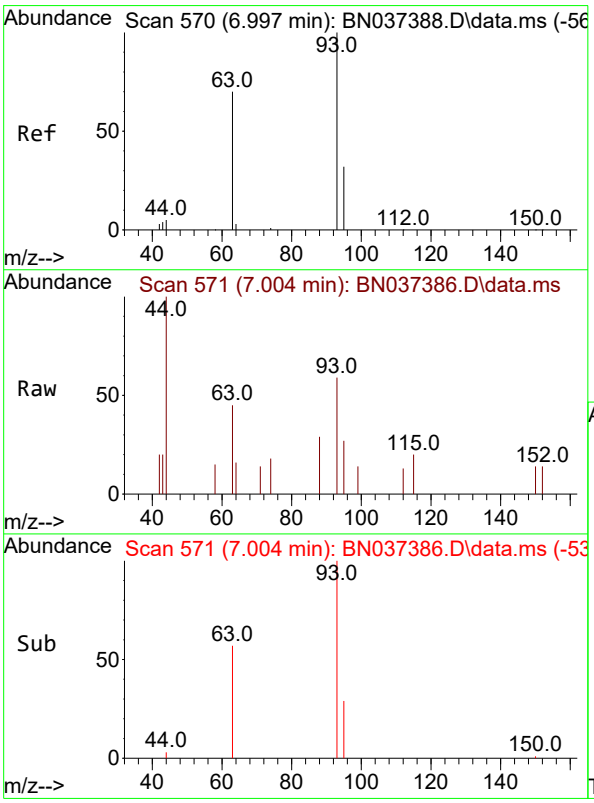
Ion	Ratio	Lower	Upper
99	100		
42	19.6	15.6	23.4
71	43.6	35.8	53.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

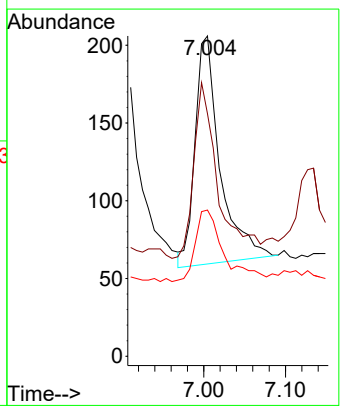
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

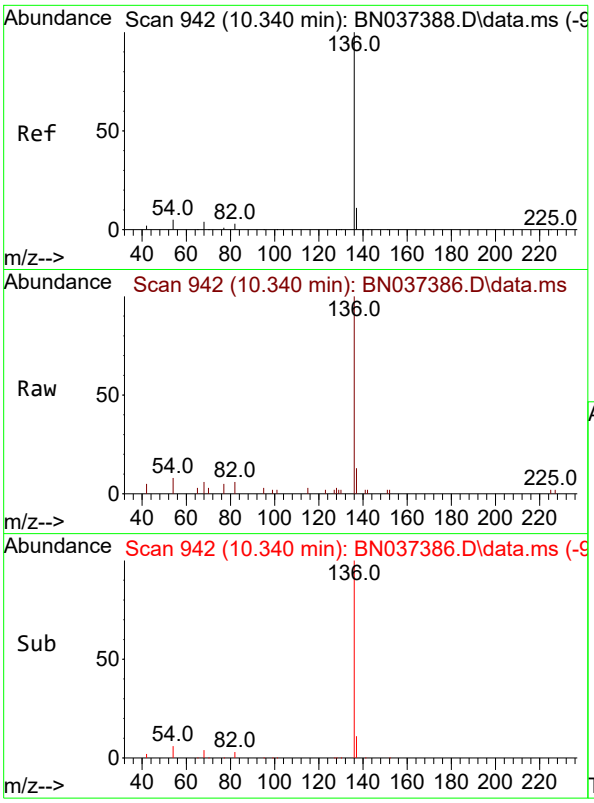


#6
bis(2-Chloroethyl)ether
Concen: 0.081 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 93 Resp: 313

Ion	Ratio	Lower	Upper
93	100		
63	75.1	49.6	74.4#
95	35.5	23.9	35.9

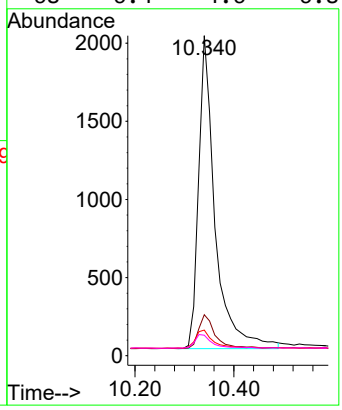




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:136 Resp: 462

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	8.0	5.6	8.4
68	6.4	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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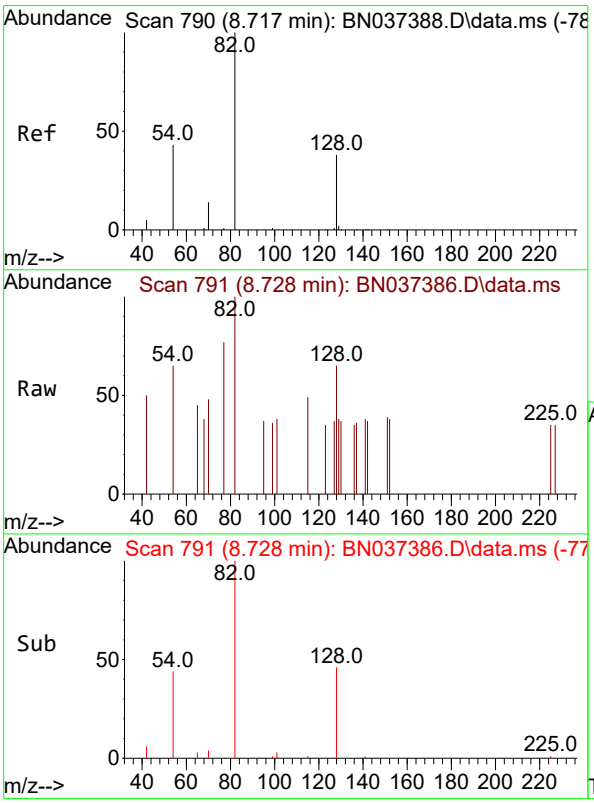
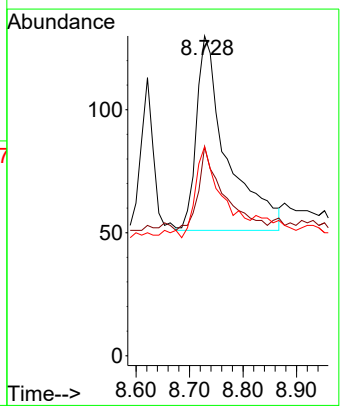
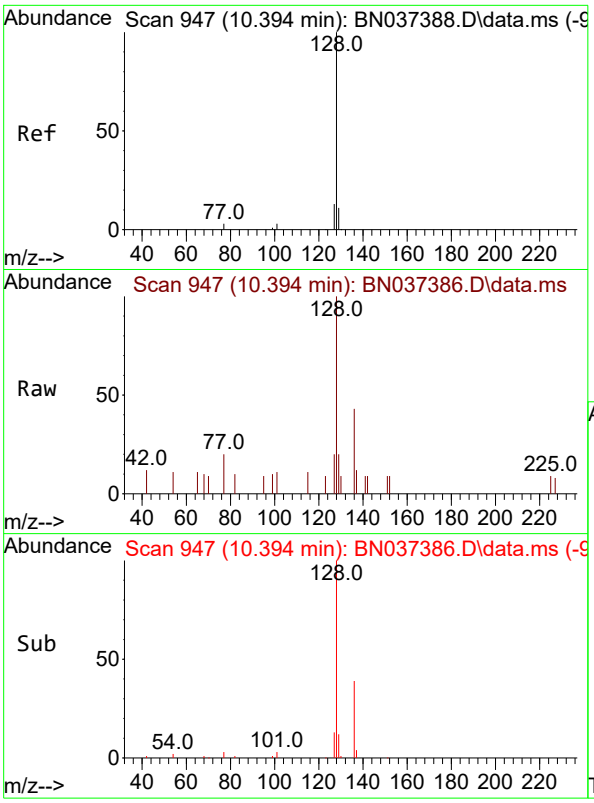


#8
Nitrobenzene-d5
Concen: 0.085 ng m
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 82 Resp: 312

Ion	Ratio	Lower	Upper
82	100		
128	65.4	34.0	51.0#
54	65.4	37.7	56.5#

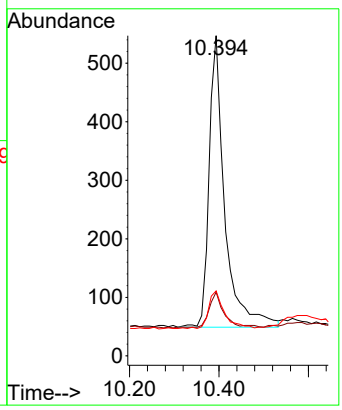




#9
Naphthalene
Concen: 0.101 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:128 Resp: 120

Ion	Ratio	Lower	Upper
128	100		
129	19.9	10.4	15.6#
127	20.3	12.2	18.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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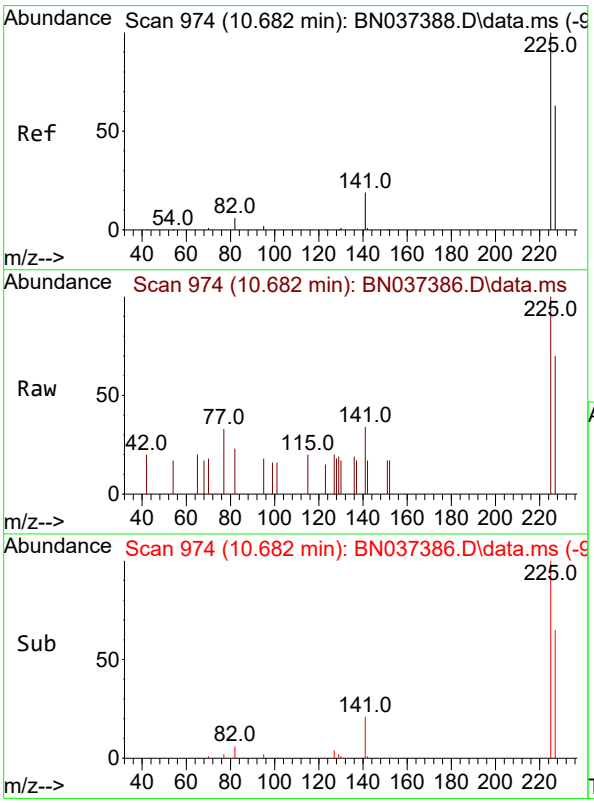
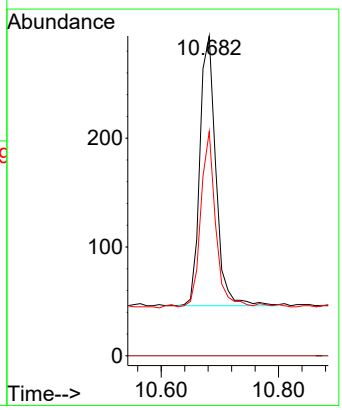
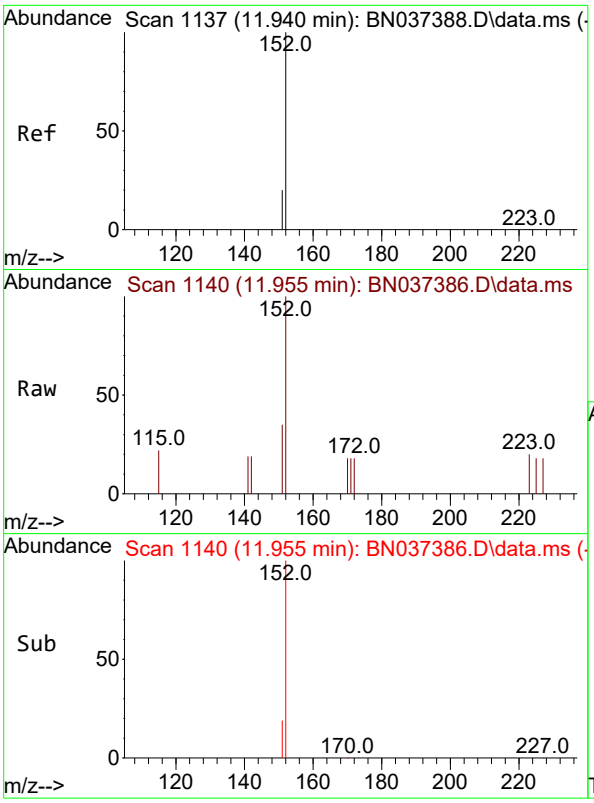


#10
Hexachlorobutadiene
Concen: 0.100 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:225 Resp: 471

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	60.7	49.9	74.9

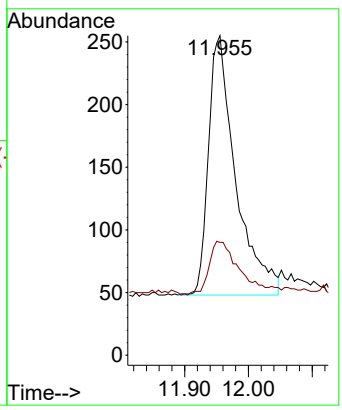




#11
2-Methylnaphthalene-d10
Concen: 0.086 ng
RT: 11.955 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:152 Resp: 61

Ion	Ratio	Lower	Upper
152	100		
151	22.9	18.4	27.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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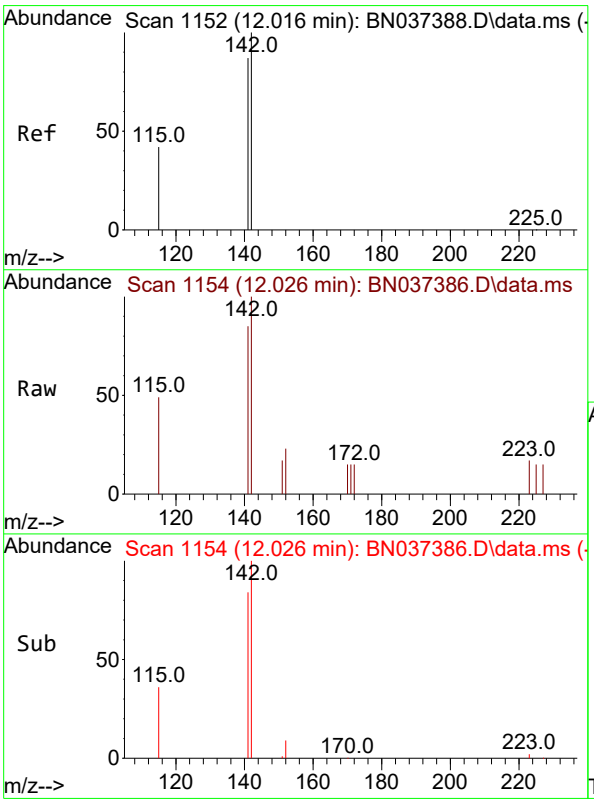
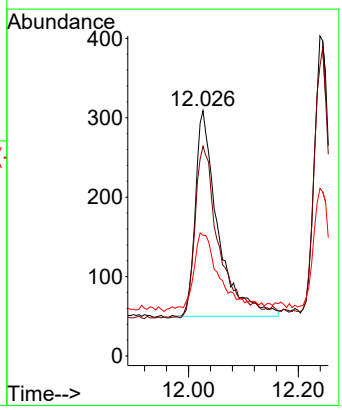
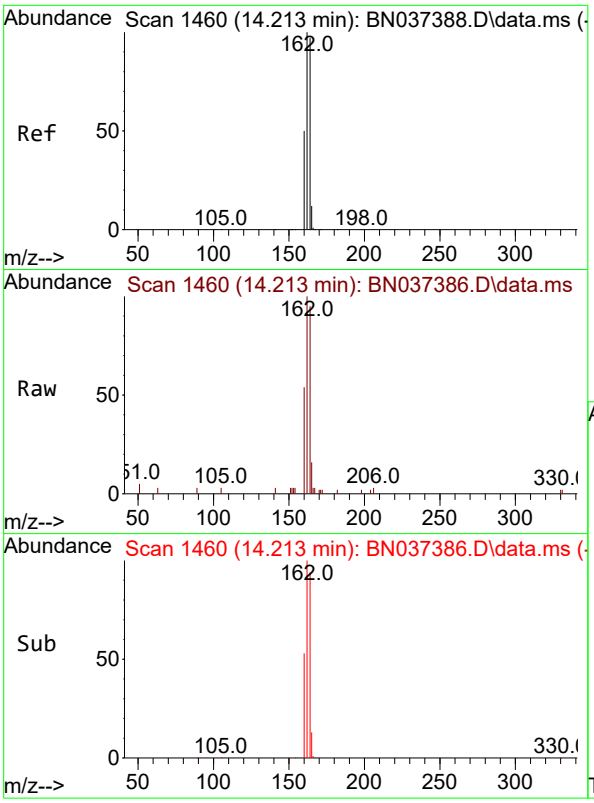


#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:142 Resp: 735

Ion	Ratio	Lower	Upper
142	100		
141	85.4	70.1	105.1
115	49.2	35.8	53.6

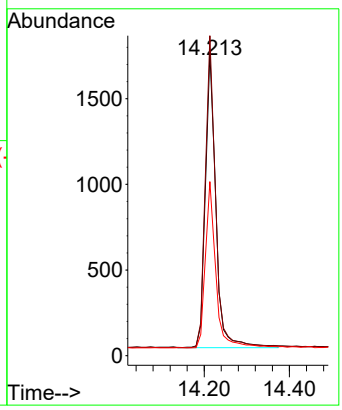




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:164 Resp: 294

Ion	Ratio	Lower	Upper
164	100		
162	105.7	82.6	123.8
160	57.5	42.2	63.2



Instrument :
BNA_N
ClientSampleId :
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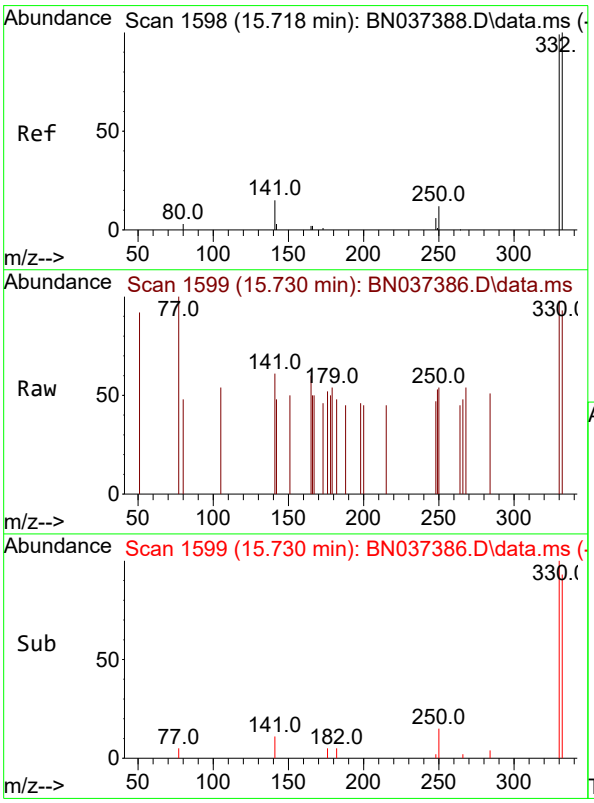
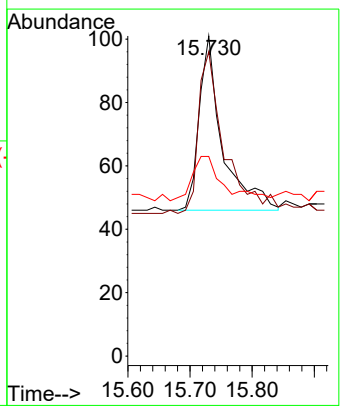
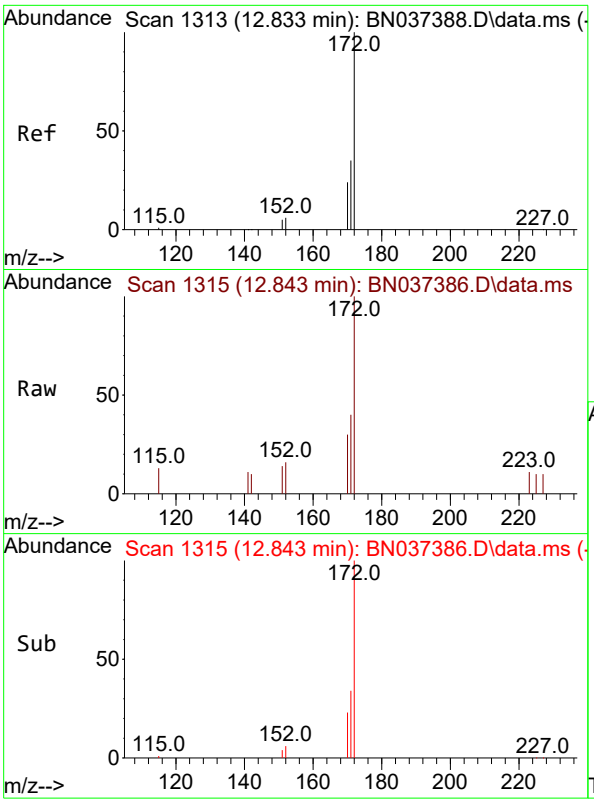


#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:330 Resp: 143

Ion	Ratio	Lower	Upper
330	100		
332	107.7	77.8	116.8
141	33.6	24.0	36.0

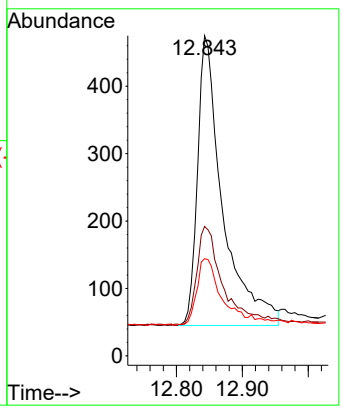




#15
2-Fluorobiphenyl
Concen: 0.090 ng
RT: 12.843 min Scan# 1
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:172 Resp: 114

Ion	Ratio	Lower	Upper
172	100		
171	40.4	28.8	43.2
170	30.3	20.3	30.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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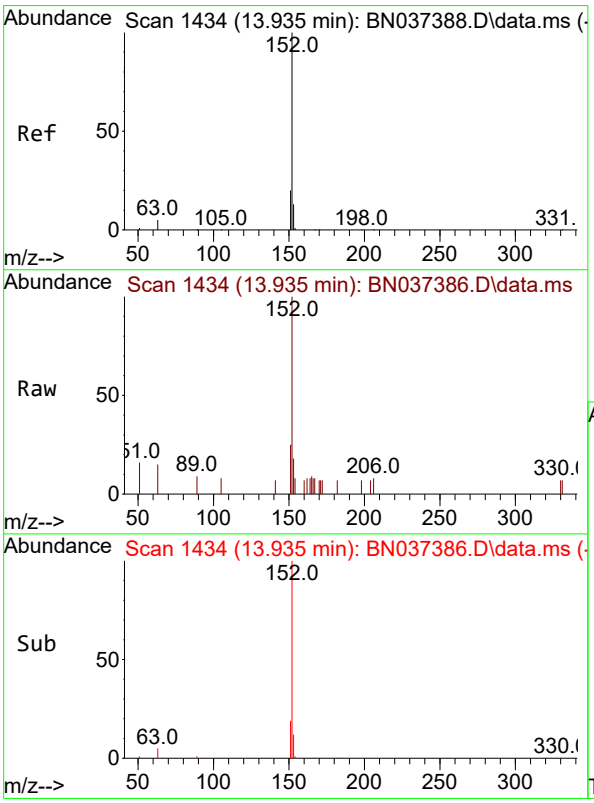
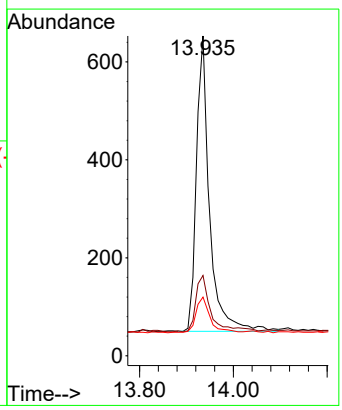
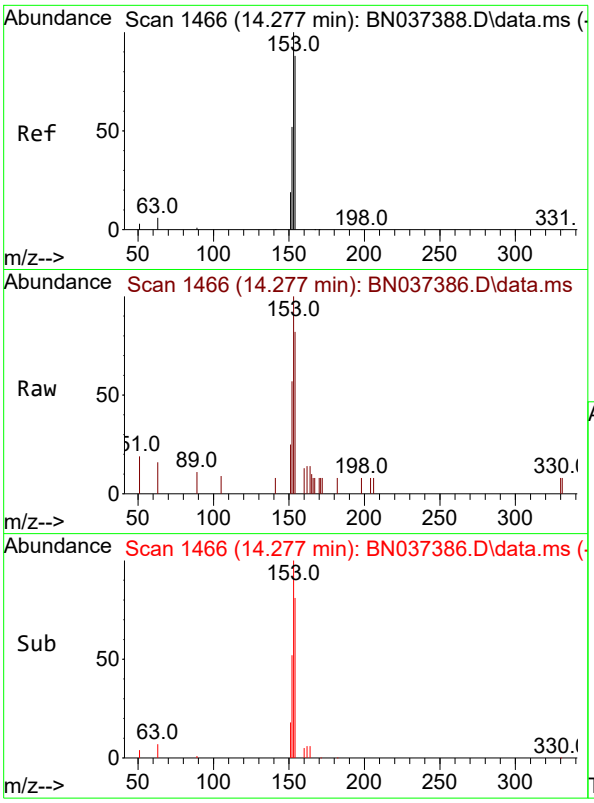


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:152 Resp: 1167

Ion	Ratio	Lower	Upper
152	100		
151	21.9	15.8	23.6
153	13.1	10.3	15.5

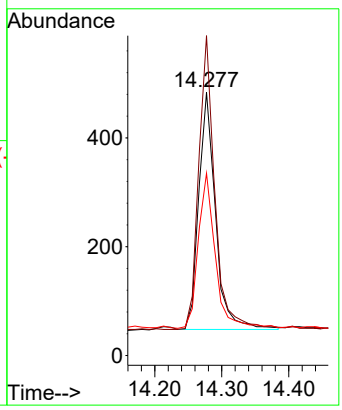




#17
Acenaphthene
Concen: 0.095 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:154 Resp: 75

Ion	Ratio	Lower	Upper
154	100		
153	119.4	94.6	141.8
152	66.6	50.2	75.2



Instrument :
BNA_N
ClientSampleId :
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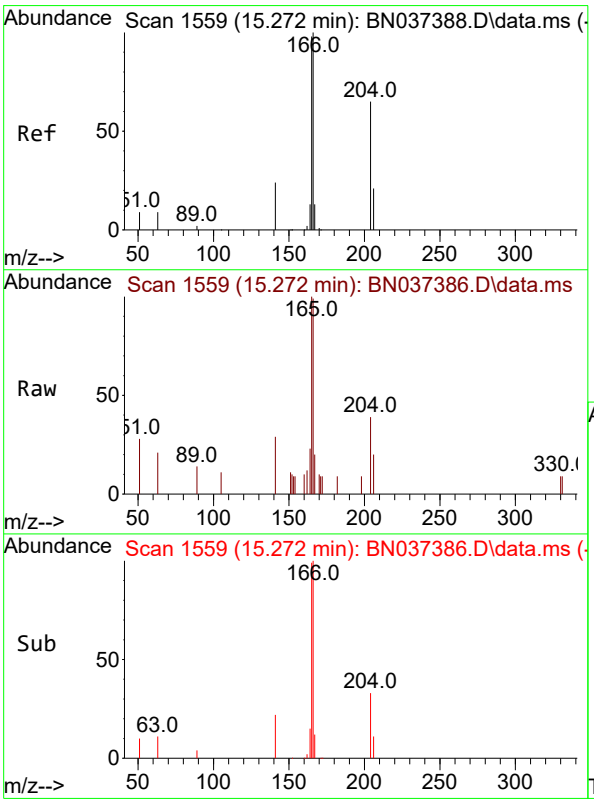
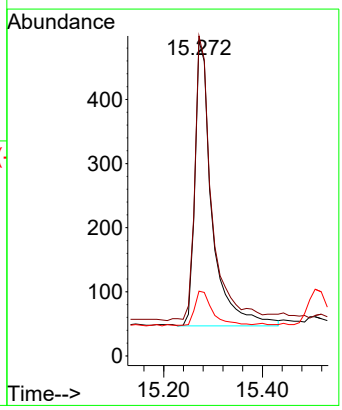
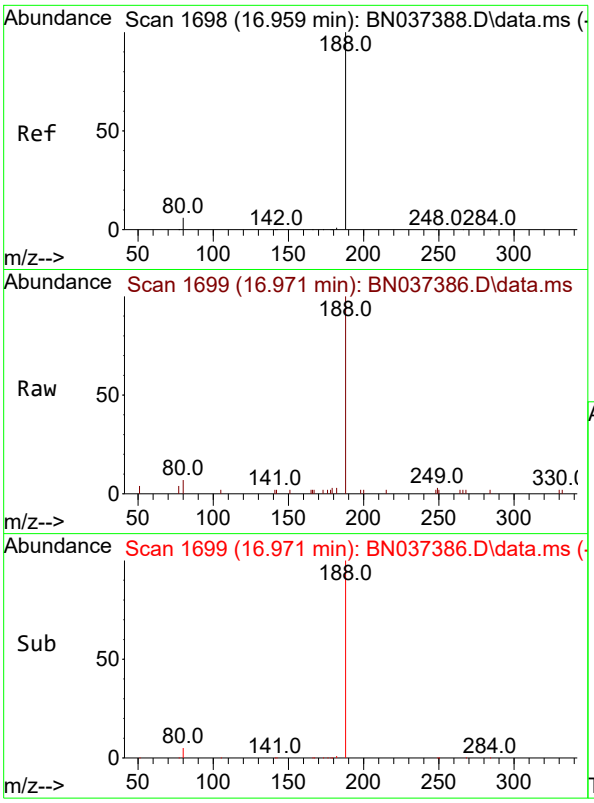


#18
Fluorene
Concen: 0.094 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:166 Resp: 1063

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.4	119.2
167	12.2	10.6	15.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:188 Resp: 581

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.1	6.2	9.4

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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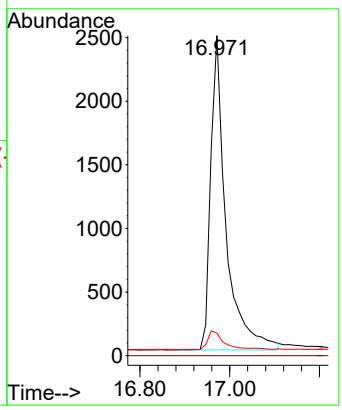
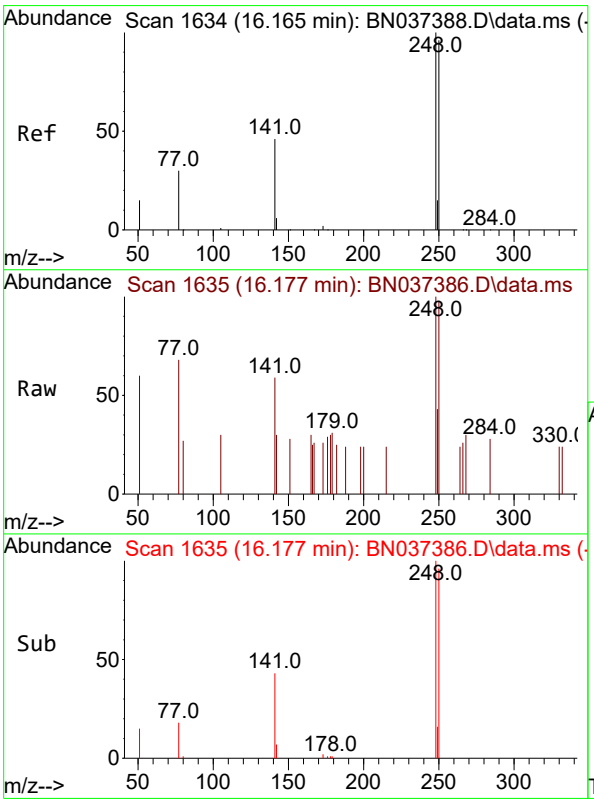
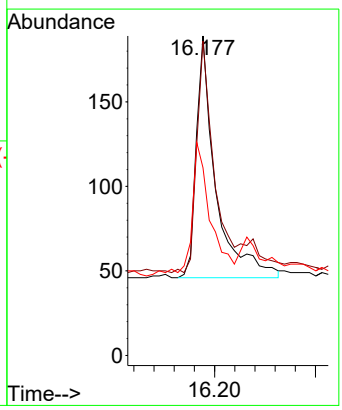


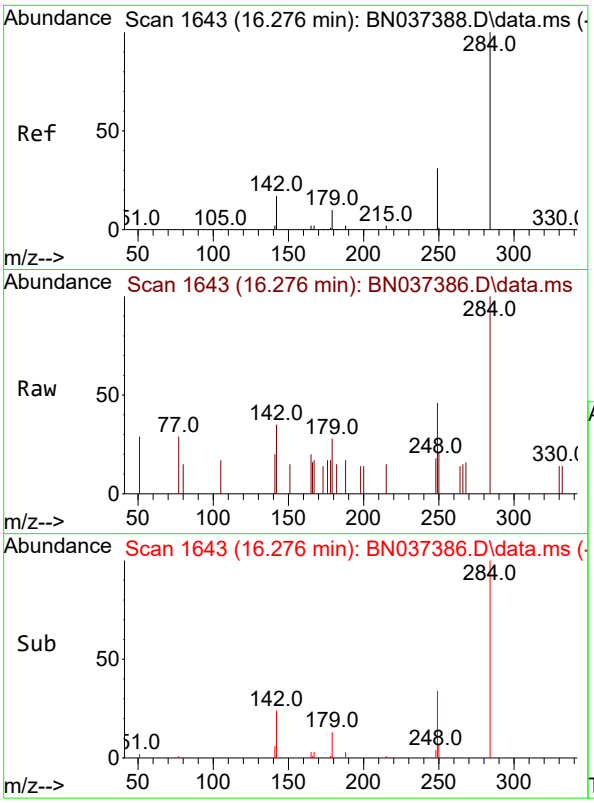


#21
4-Bromophenyl-phenylether
Concen: 0.093 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:248 Resp: 383

Ion	Ratio	Lower	Upper
248	100		
250	98.4	77.0	115.4
141	58.7	38.7	58.1#

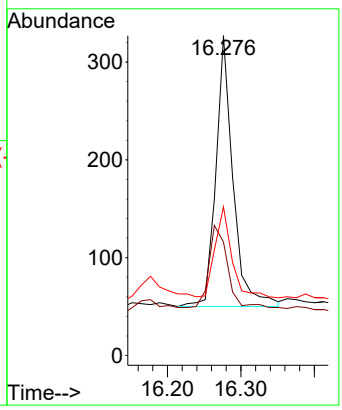




#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.276 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:284 Resp: 45(

Ion	Ratio	Lower	Upper
284	100		
142	34.4	27.2	40.8
249	35.1	26.7	40.1



Instrument :
BNA_N
ClientSampleId :
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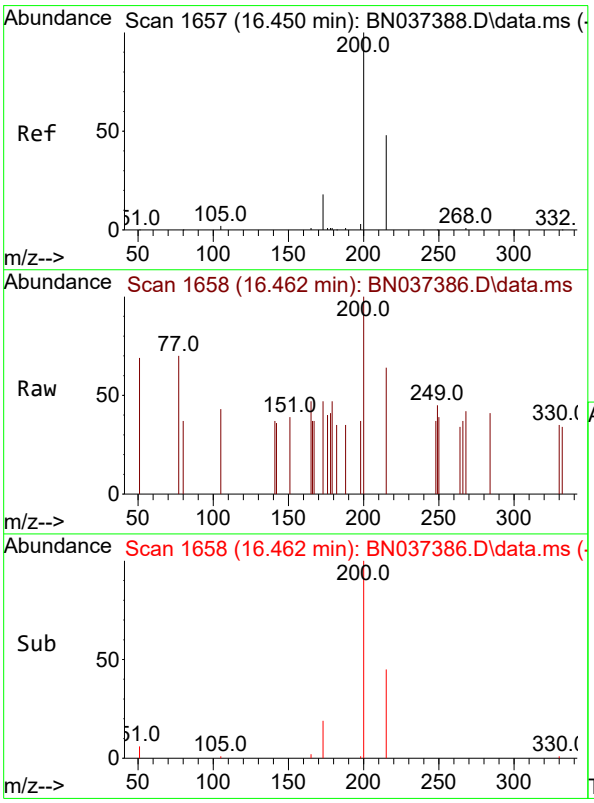
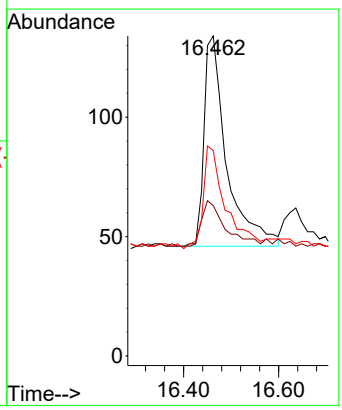
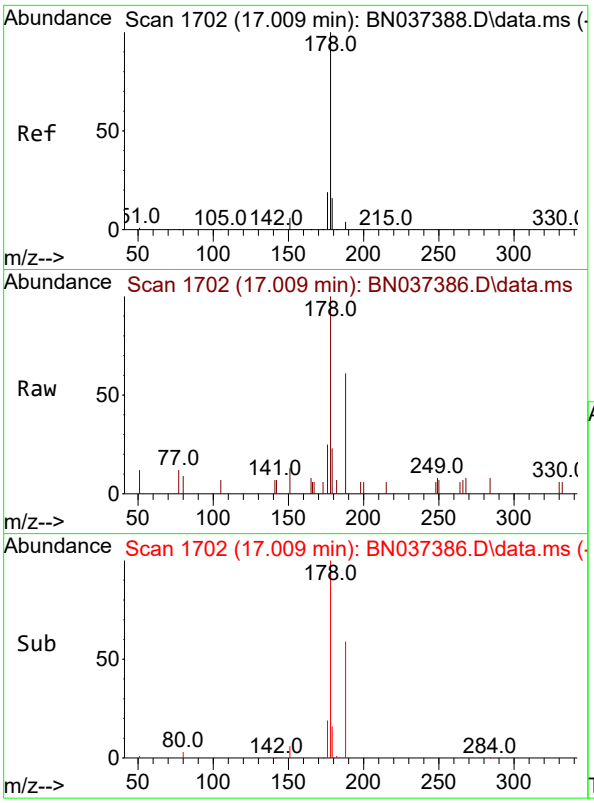


#23
Atrazine
Concen: 0.090 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:200 Resp: 291

Ion	Ratio	Lower	Upper
200	100		
173	47.0	19.0	28.6#
215	64.2	41.3	61.9#

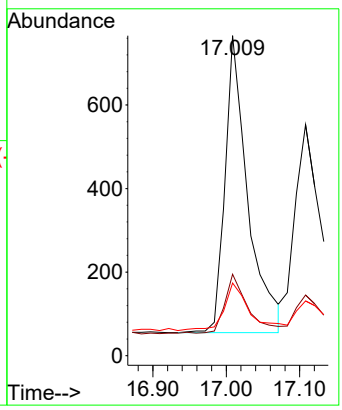




#25
Phenanthrene
Concen: 0.094 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:178 Resp: 153

Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.6	23.4
179	17.4	12.8	19.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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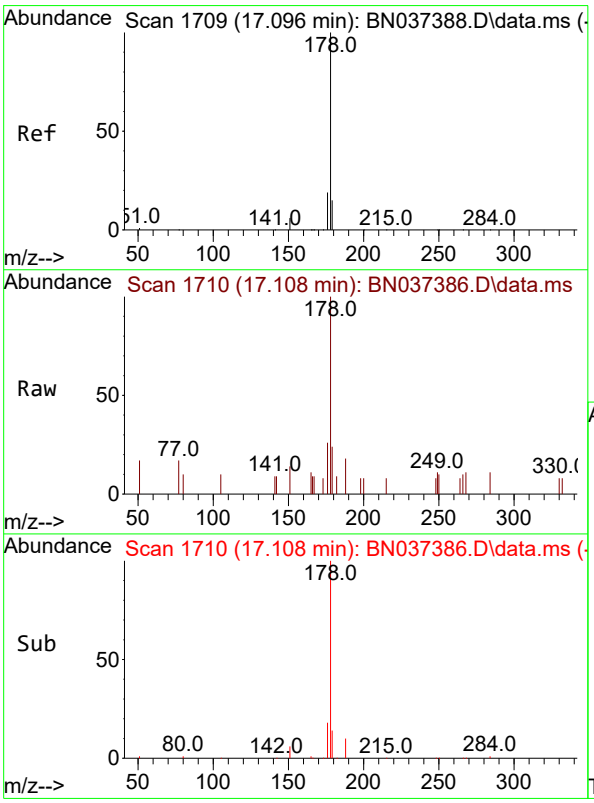
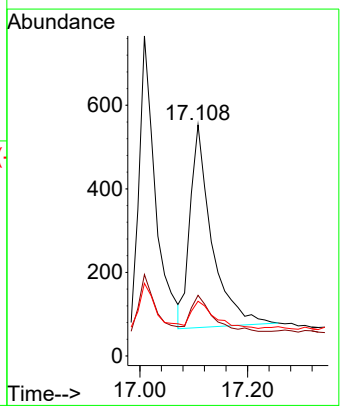
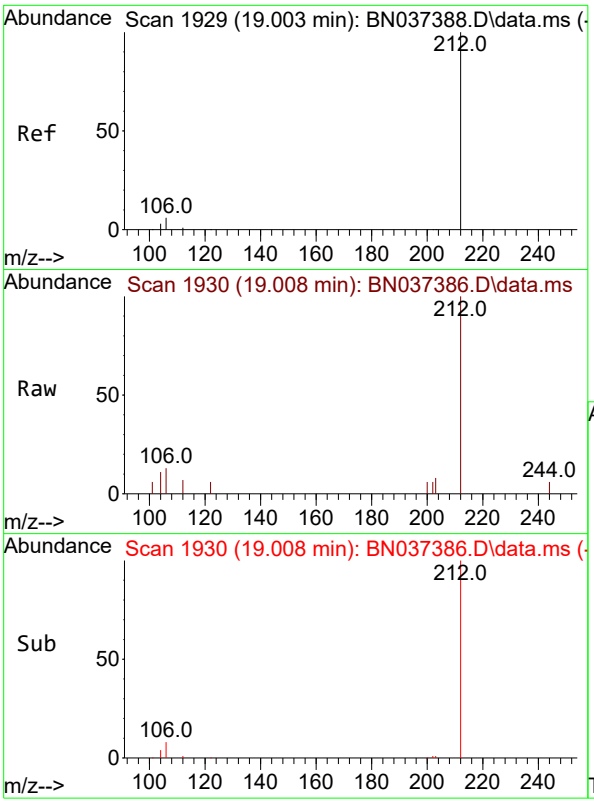


#26
Anthracene
Concen: 0.090 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:178 Resp: 1358

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.2	12.4	18.6

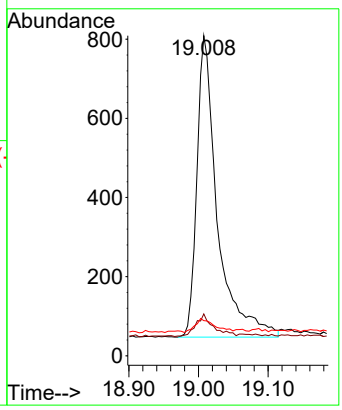




#27
Fluoranthene-d10
Concen: 0.094 ng
RT: 19.008 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:212 Resp: 155

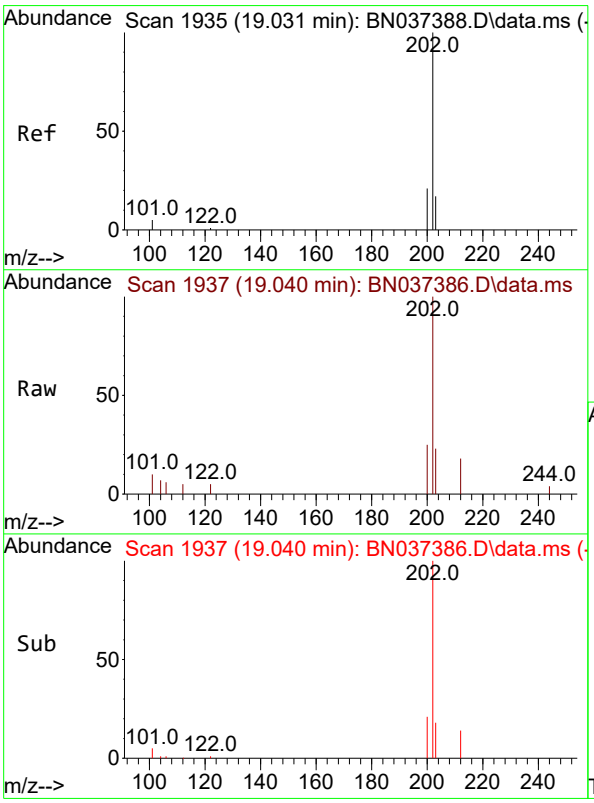
Ion	Ratio	Lower	Upper
212	100		
106	6.3	4.5	6.7
104	4.4	2.7	4.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

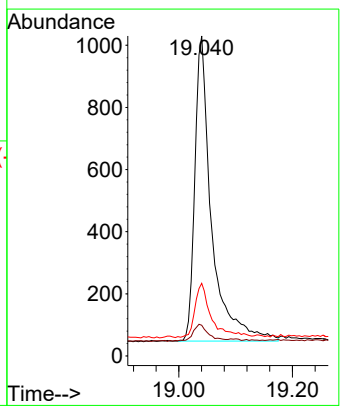
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

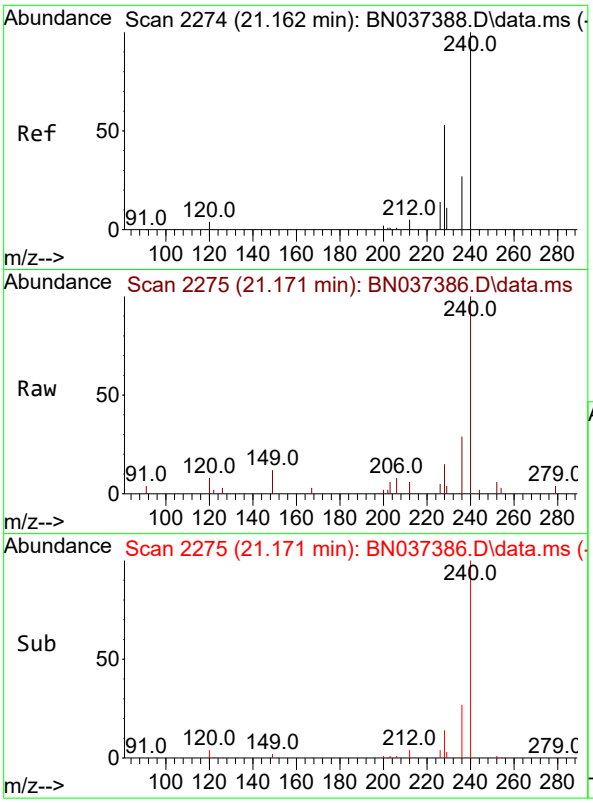


#28
Fluoranthene
Concen: 0.096 ng
RT: 19.040 min Scan# 1937
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:202 Resp: 2001

Ion	Ratio	Lower	Upper
202	100		
101	5.3	3.8	5.6
203	17.4	13.5	20.3

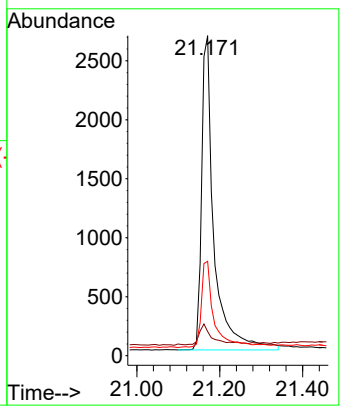




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:240 Resp: 549

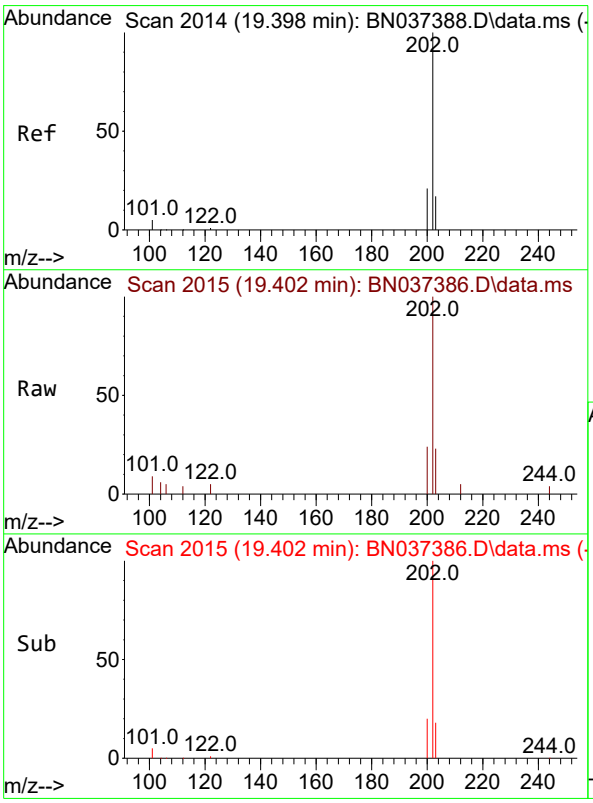
Ion	Ratio	Lower	Upper
240	100		
120	7.6	5.3	7.9
236	29.5	22.7	34.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

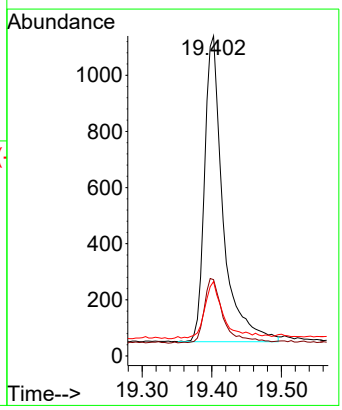
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

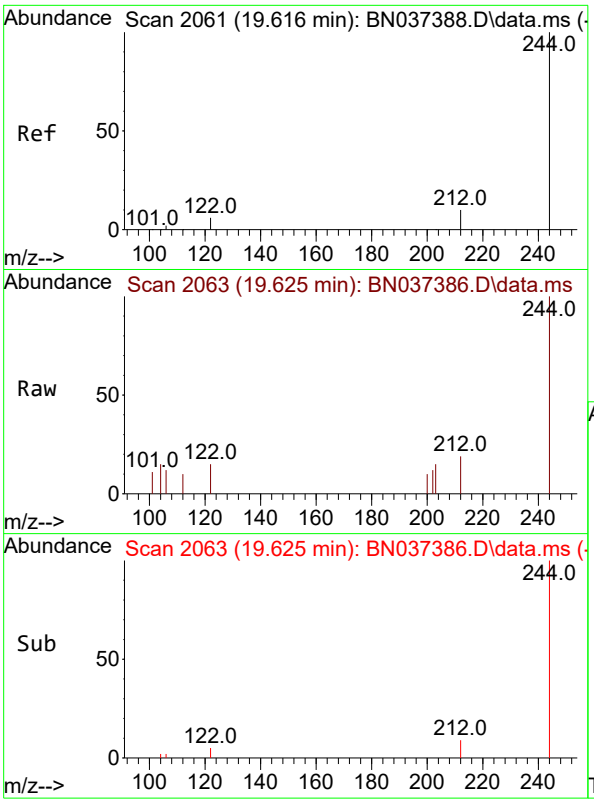


#30
Pyrene
Concen: 0.096 ng
RT: 19.402 min Scan# 2015
Delta R.T. 0.005 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:202 Resp: 2006

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.5	24.7
203	18.0	14.2	21.2

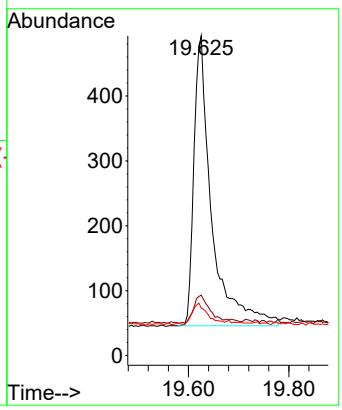




#31
Terphenyl-d14
Concen: 0.094 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:244 Resp: 109

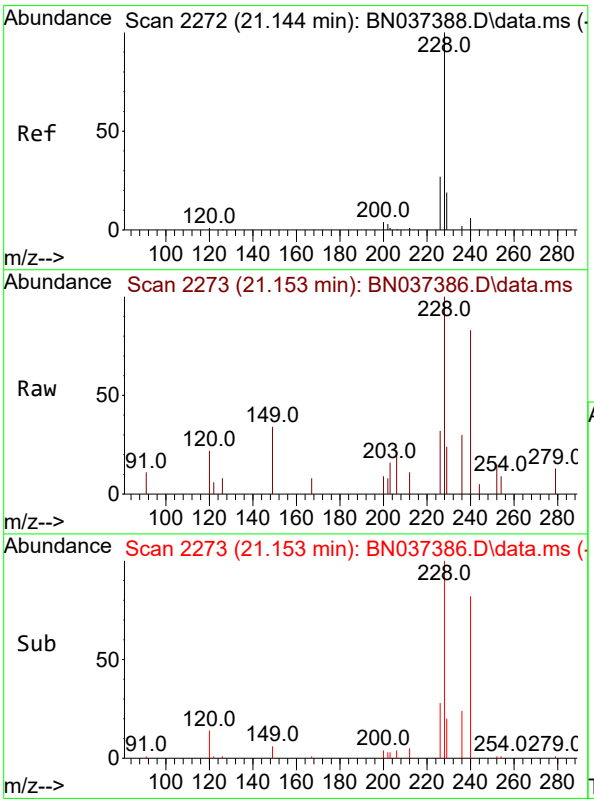
Ion	Ratio	Lower	Upper
244	100		
212	18.9	9.1	13.7#
122	14.8	6.3	9.5#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

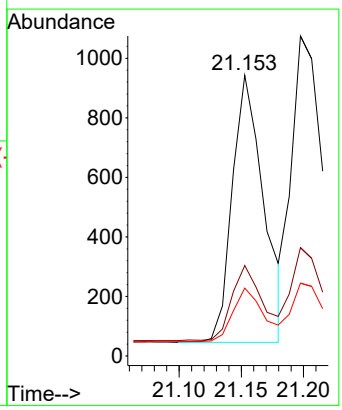
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

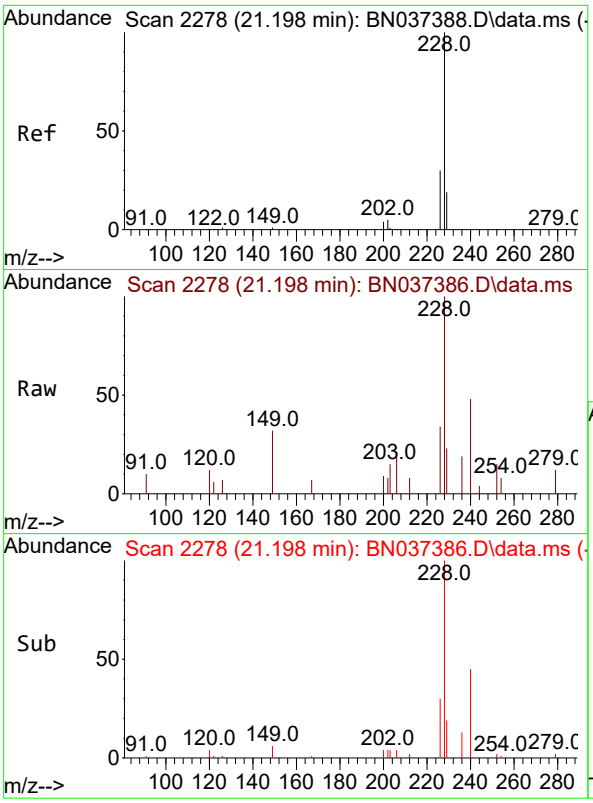


#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:228 Resp: 1579

Ion	Ratio	Lower	Upper
228	100		
226	32.2	22.6	34.0
229	24.2	16.2	24.2

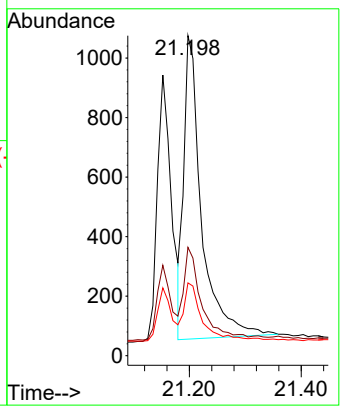




#33
Chrysene
Concen: 0.105 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:228 Resp: 224

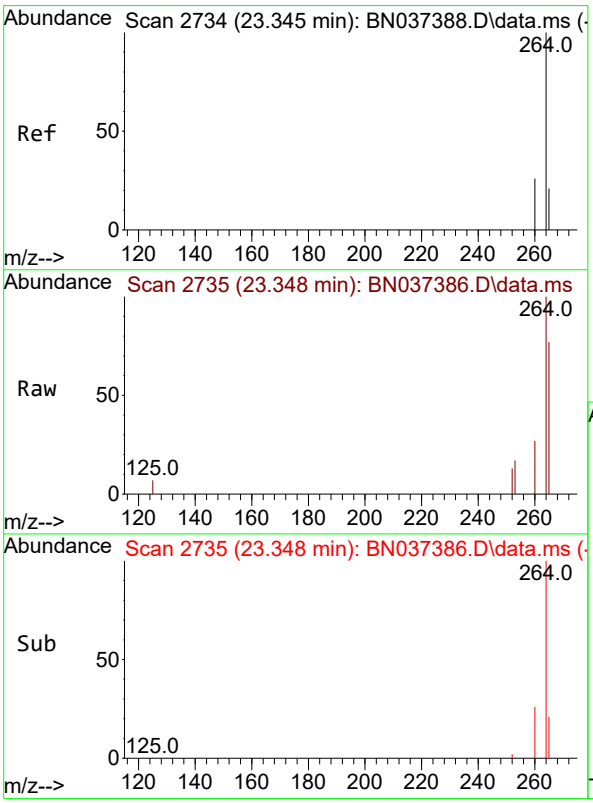
Ion	Ratio	Lower	Upper
228	100		
226	33.9	24.5	36.7
229	22.8	16.1	24.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

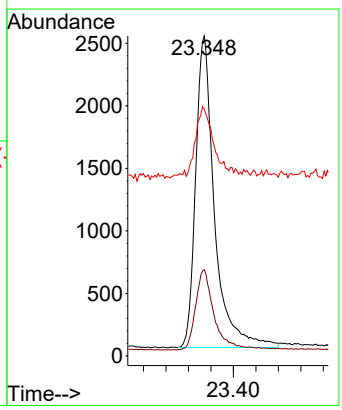
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

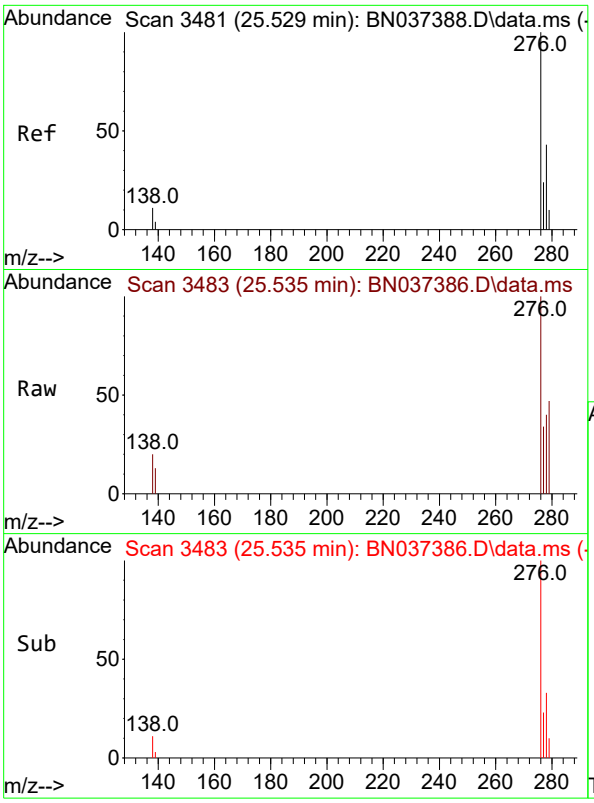


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2735
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:264 Resp: 5798

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.0
265	77.1	56.2	84.4

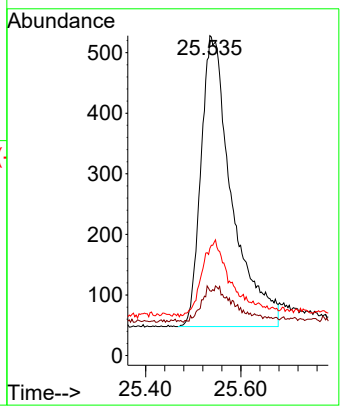




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.535 min Scan# 34
Delta R.T. 0.006 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:276 Resp: 215

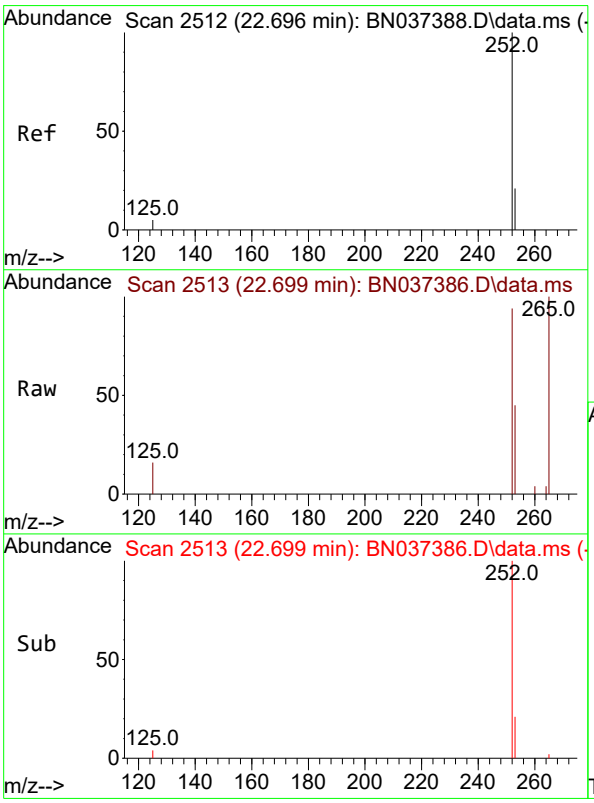
Ion	Ratio	Lower	Upper
276	100		
138	4.1	8.5	12.7#
277	21.2	19.7	29.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

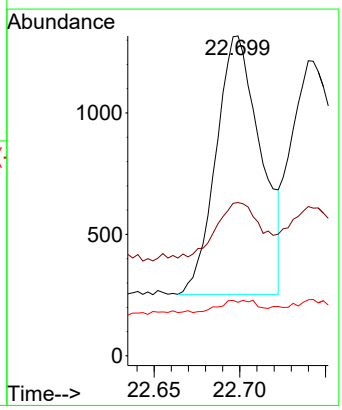
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

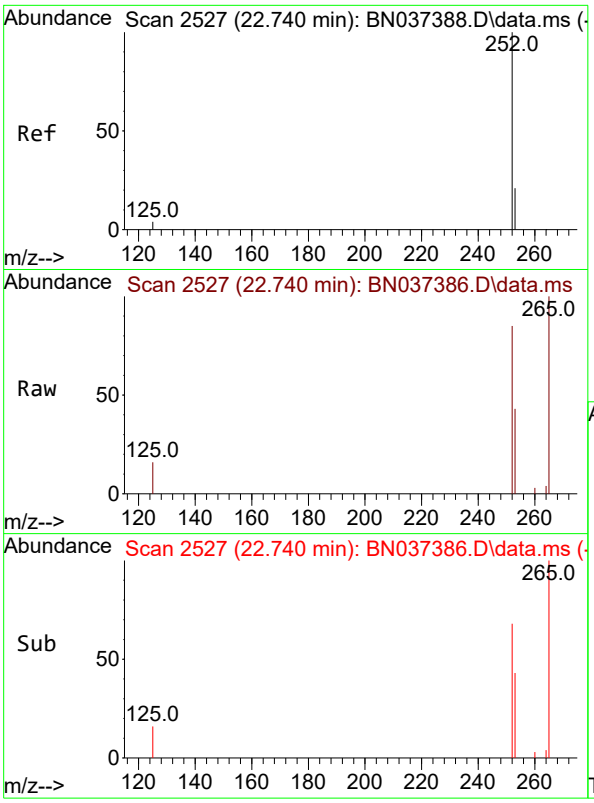


#37
Benzo(b)fluoranthene
Concen: 0.094 ng
RT: 22.699 min Scan# 2513
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:252 Resp: 1927

Ion	Ratio	Lower	Upper
252	100		
253	47.9	22.8	34.2#
125	16.7	6.2	9.4#

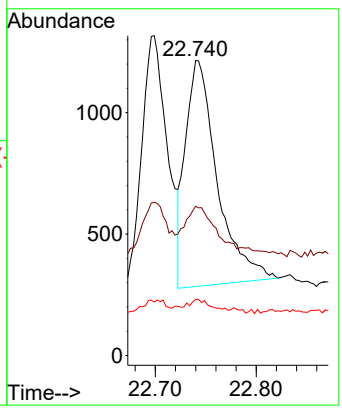




#38
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 22.740 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:252 Resp: 204

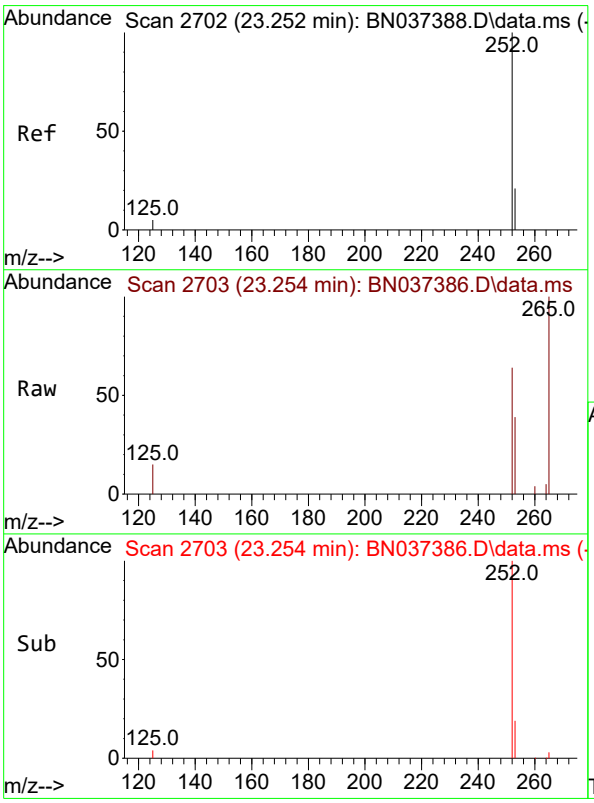
Ion	Ratio	Lower	Upper
252	100		
253	50.6	23.2	34.8#
125	19.0	6.0	9.0#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

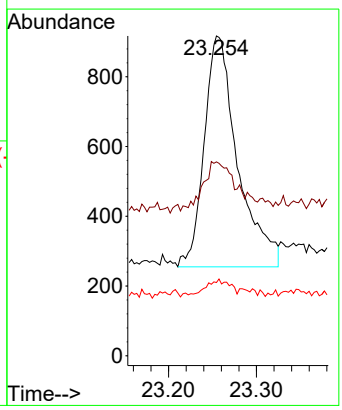
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

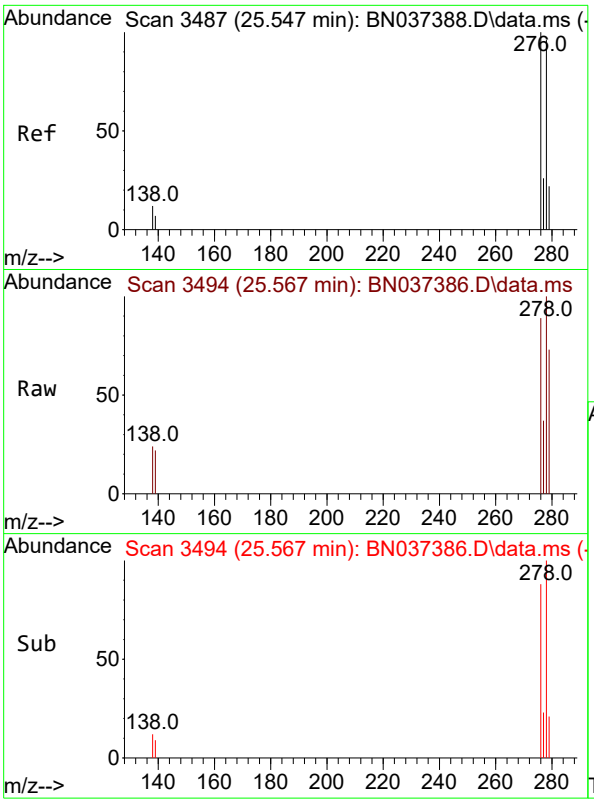


#39
Benzo(a)pyrene
Concen: 0.097 ng
RT: 23.254 min Scan# 2703
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:252 Resp: 1755

Ion	Ratio	Lower	Upper
252	100		
253	60.6	25.6	38.4#
125	22.9	7.5	11.3#





#40
Dibenzo(a,h)anthracene
Concen: 0.081 ng
RT: 25.567 min Scan# 34
Delta R.T. 0.020 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

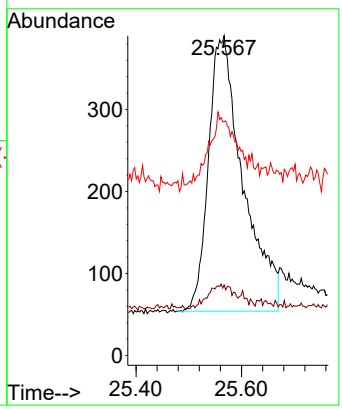
Tgt Ion:278 Resp: 152

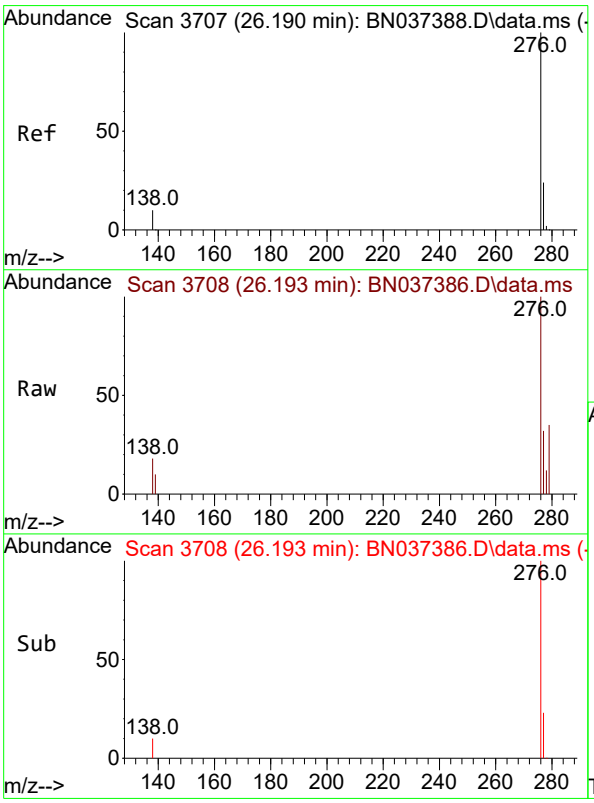
Ion	Ratio	Lower	Upper
278	100		
139	22.1	8.5	12.7#
279	73.1	27.5	41.3#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

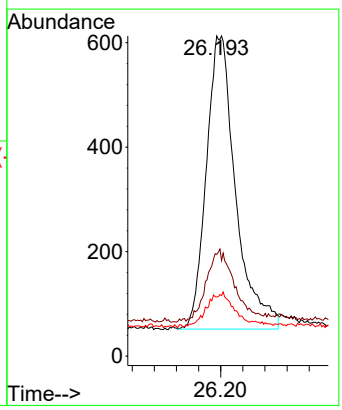




#41
Benzo(g,h,i)perylene
Concen: 0.092 ng
RT: 26.193 min Scan# 3708
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:276 Resp: 2066

Ion	Ratio	Lower	Upper
276	100		
277	31.8	21.0	31.4#
138	18.4	9.6	14.4#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037387.D
Acq On : 26 Jun 2025 11:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 26 16:05:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:05:06 2025
Response via : Initial Calibration

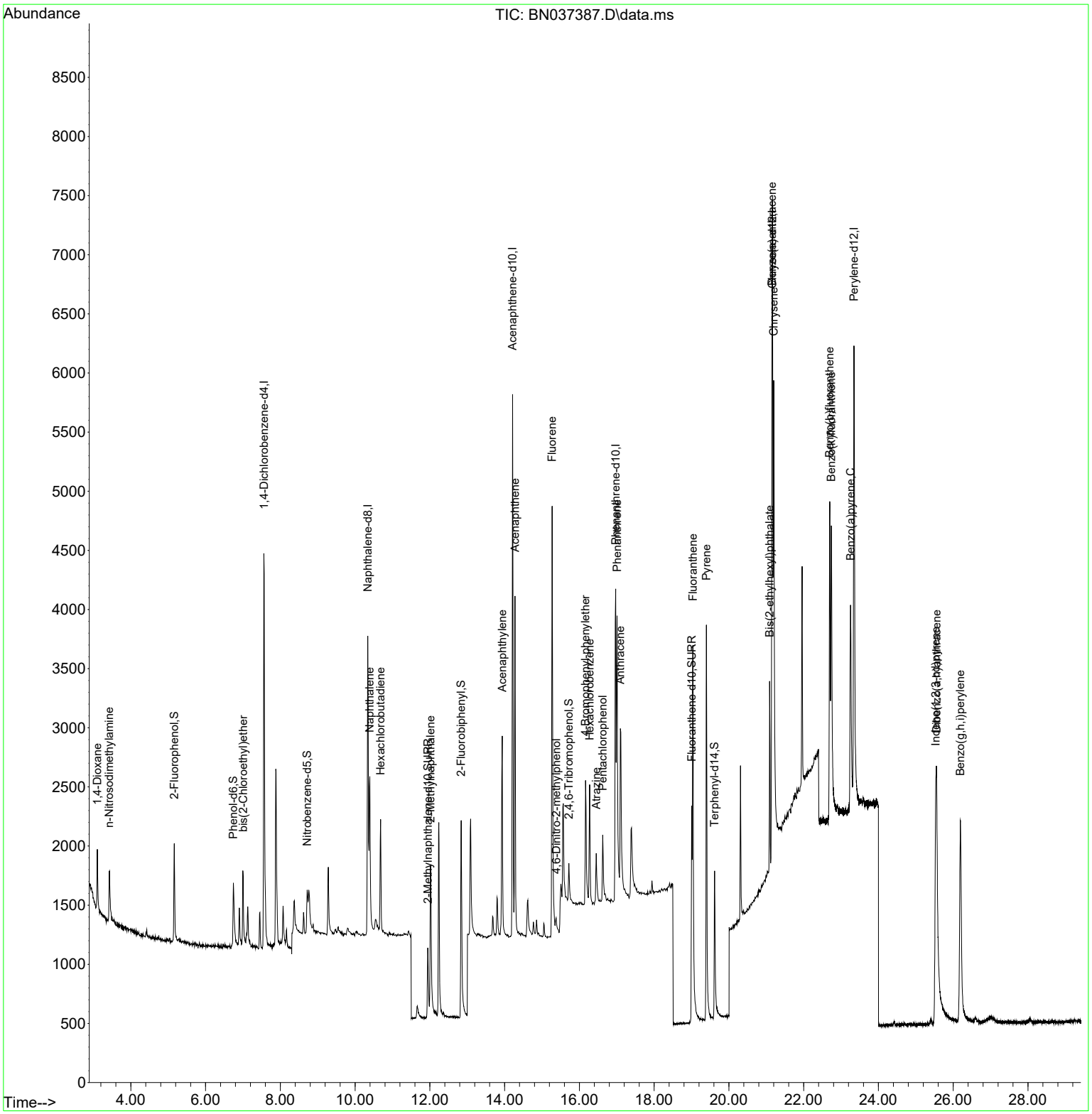
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.561	152	1946	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4021	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	2635	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5416	0.400	ng	#	0.01
29) Chrysene-d12	21.162	240	5370	0.400	ng	#	0.00
35) Perylene-d12	23.345	264	5780	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	757	0.202	ng		0.00
5) Phenol-d6	6.744	99	687	0.177	ng		0.00
8) Nitrobenzene-d5	8.717	82	565	0.175	ng		0.00
11) 2-Methylnaphthalene-d10	11.945	152	1139	0.183	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	273	0.177	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	2182	0.192	ng		0.00
27) Fluoranthene-d10	19.008	212	3080	0.198	ng		0.00
31) Terphenyl-d14	19.616	244	2132	0.186	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	457	0.248	ng	#	88
3) n-Nitrosodimethylamine	3.422	42	367	0.201	ng		99
6) bis(2-Chloroethyl)ether	7.004	93	643	0.186	ng		98
9) Naphthalene	10.394	128	2012	0.194	ng		94
10) Hexachlorobutadiene	10.682	225	824	0.201	ng	#	98
12) 2-Methylnaphthalene	12.016	142	1337	0.188	ng		98
16) Acenaphthylene	13.935	152	2108	0.193	ng		99
17) Acenaphthene	14.277	154	1353	0.190	ng		99
18) Fluorene	15.272	166	1867	0.185	ng		98
20) 4,6-Dinitro-2-methylph...	15.378	198	228	0.164	ng	#	46
21) 4-Bromophenyl-phenylether	16.165	248	684	0.179	ng	#	92
22) Hexachlorobenzene	16.276	284	809	0.197	ng		98
23) Atrazine	16.450	200	563	0.186	ng	#	89
24) Pentachlorophenol	16.624	266	445	0.201	ng		94
25) Phenanthrene	17.009	178	2890	0.189	ng		99
26) Anthracene	17.096	178	2632	0.188	ng		98
28) Fluoranthene	19.035	202	3786	0.194	ng		99
30) Pyrene	19.398	202	3891	0.191	ng		99
32) Benzo(a)anthracene	21.153	228	3228	0.191	ng		99
33) Chrysene	21.198	228	4224	0.202	ng		97
34) Bis(2-ethylhexyl)phtha...	21.090	149	1366	0.204	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.532	276	4378	0.180	ng	#	95
37) Benzo(b)fluoranthene	22.696	252	3772	0.185	ng	#	88
38) Benzo(k)fluoranthene	22.740	252	4013	0.184	ng	#	87
39) Benzo(a)pyrene	23.254	252	3352	0.185	ng	#	84
40) Dibenzo(a,h)anthracene	25.555	278	3290	0.176	ng	#	82
41) Benzo(g,h,i)perylene	26.193	276	4258	0.190	ng	#	95

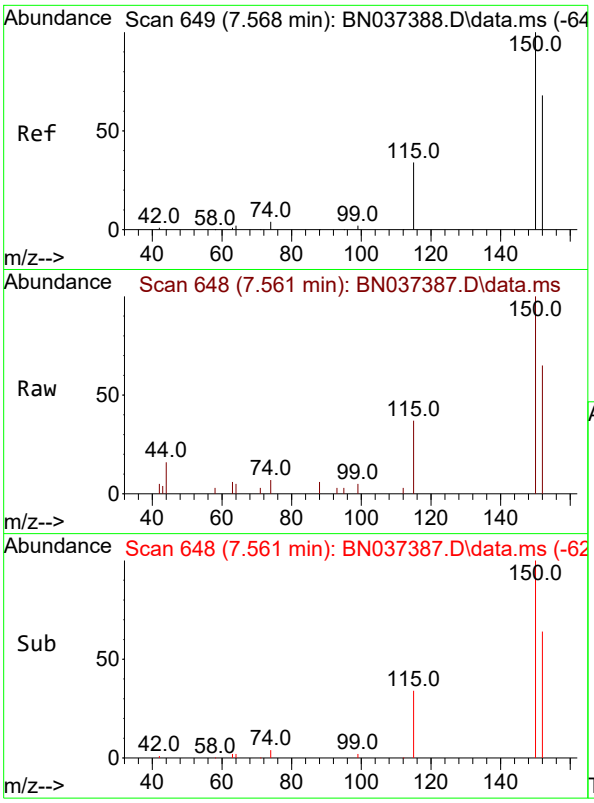
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037387.D
Acq On : 26 Jun 2025 11:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 26 16:05:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:05:06 2025
Response via : Initial Calibration



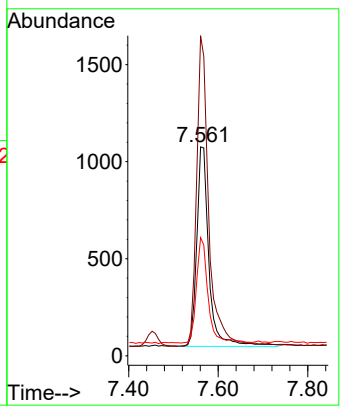


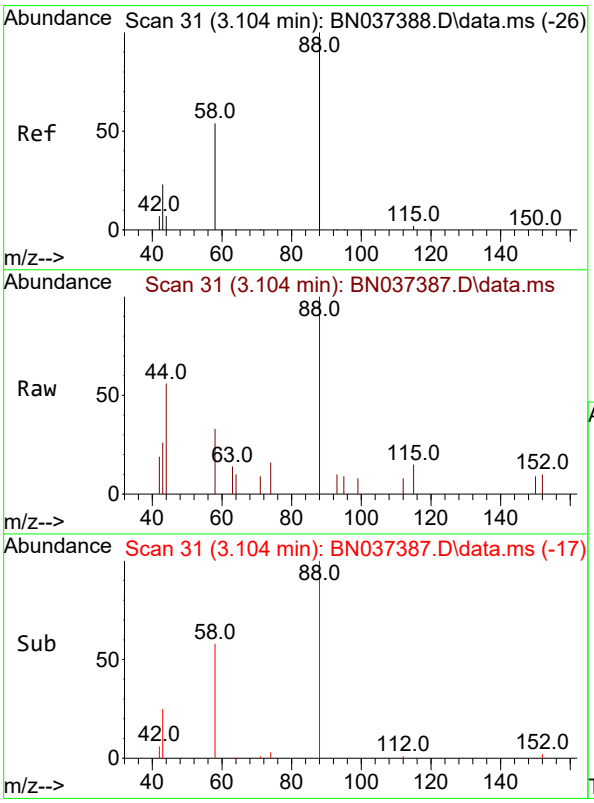
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1946

Ion	Ratio	Lower	Upper
152	100		
150	153.3	116.2	174.2
115	56.6	42.9	64.3

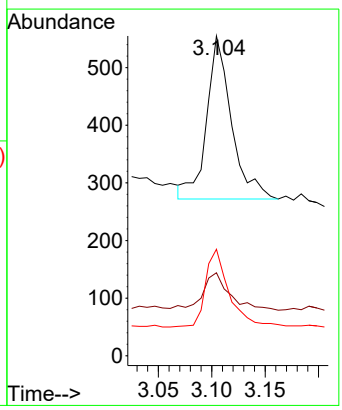


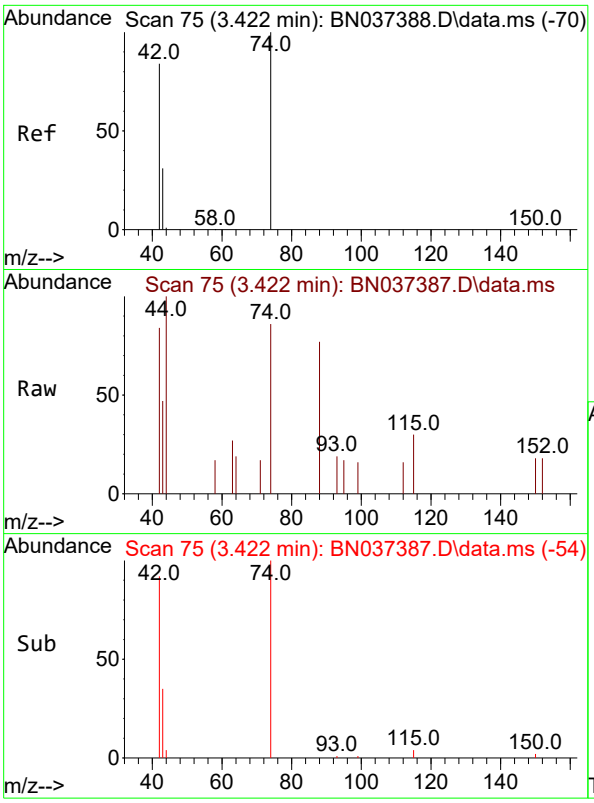


#2
1,4-Dioxane
Concen: 0.248 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion: 88 Resp: 457

Ion	Ratio	Lower	Upper
88	100		
43	24.9	21.6	32.4
58	45.5	45.9	68.9#



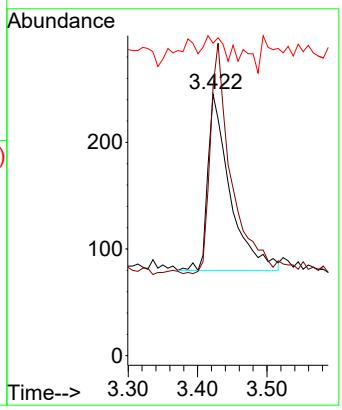


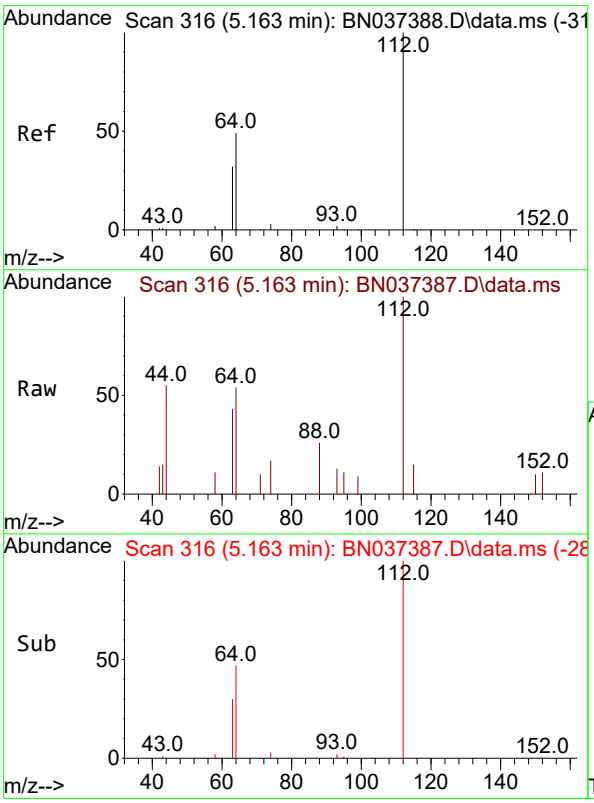
#3
n-Nitrosodimethylamine
Concen: 0.201 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 367

Ion	Ratio	Lower	Upper
42	100		
74	123.2	97.8	146.8
44	11.4	8.7	13.1

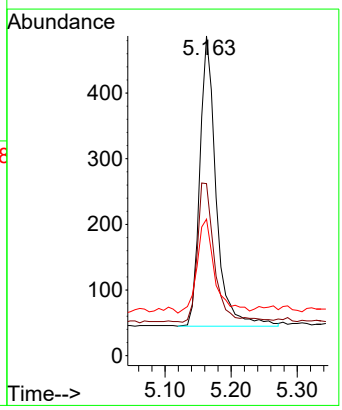


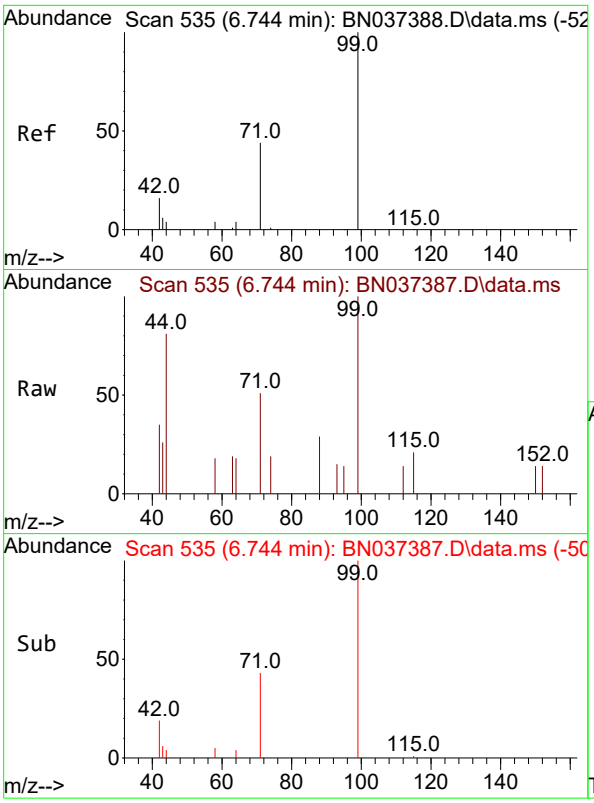


#4
2-Fluorophenol
Concen: 0.202 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:112 Resp: 757

Ion	Ratio	Lower	Upper
112	100		
64	51.0	40.3	60.5
63	35.1	26.1	39.1



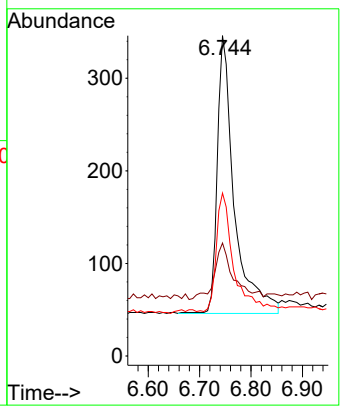


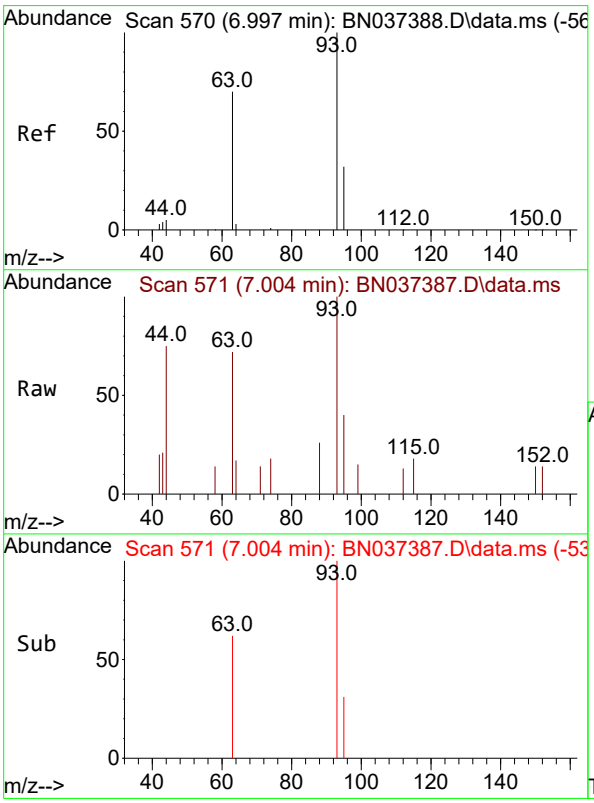
#5
Phenol-d6
Concen: 0.177 ng
RT: 6.744 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 687

Ion	Ratio	Lower	Upper
99	100		
42	23.0	15.6	23.4
71	44.1	35.8	53.8

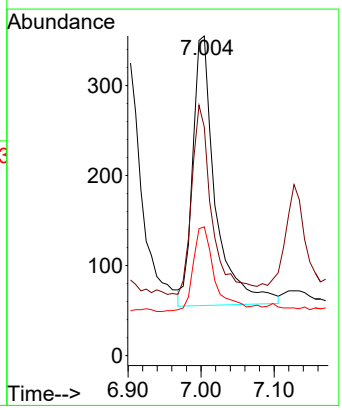


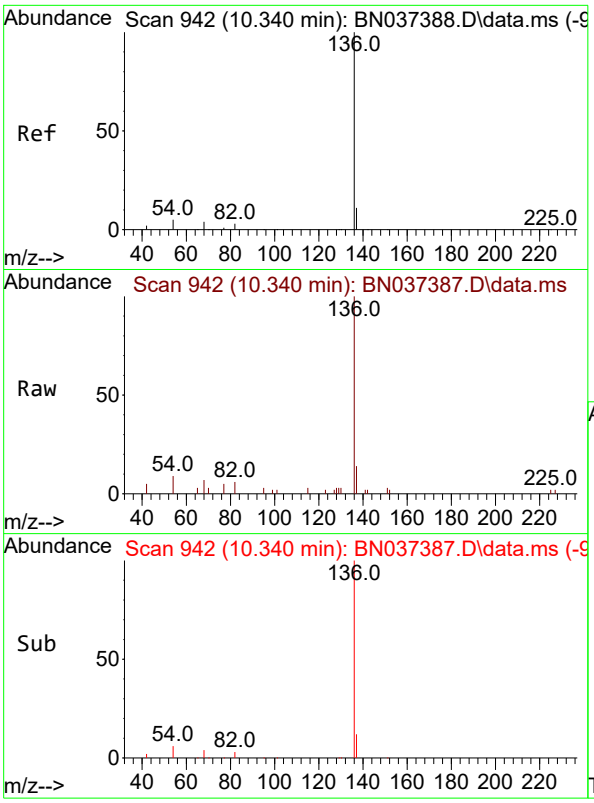


#6
bis(2-Chloroethyl)ether
Concen: 0.186 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion: 93 Resp: 643

Ion	Ratio	Lower	Upper
93	100		
63	63.9	49.6	74.4
95	30.2	23.9	35.9



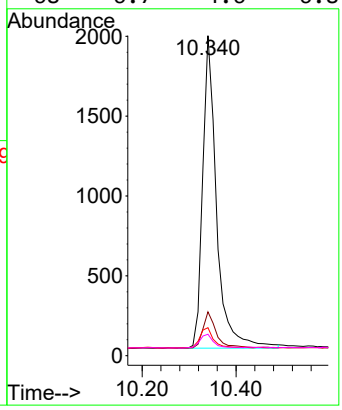


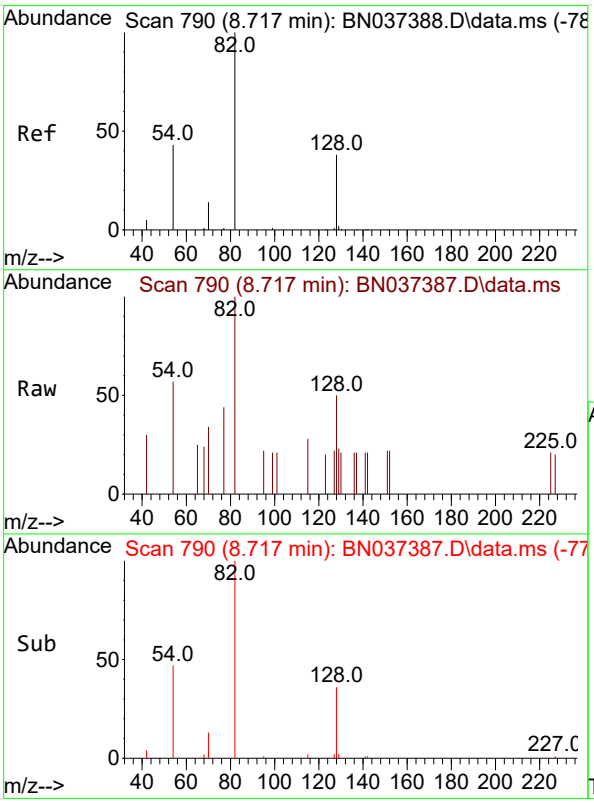
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 4021

Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.4	15.6
54	8.7	5.6	8.4#
68	6.7	4.6	6.8

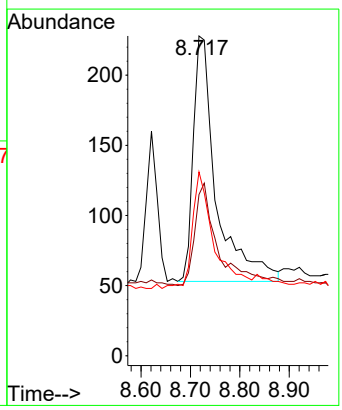


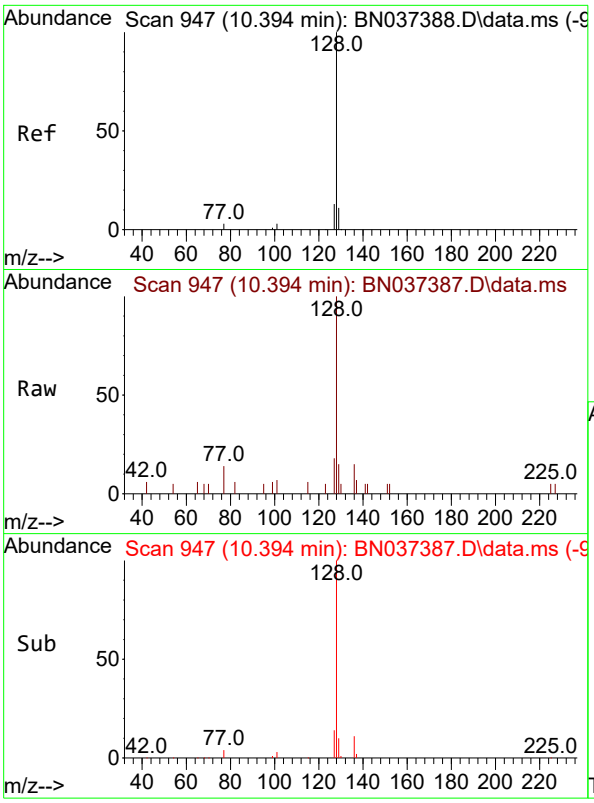


#8
Nitrobenzene-d5
Concen: 0.175 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion: 82 Resp: 565

Ion	Ratio	Lower	Upper
82	100		
128	50.4	34.0	51.0
54	57.5	37.7	56.5#



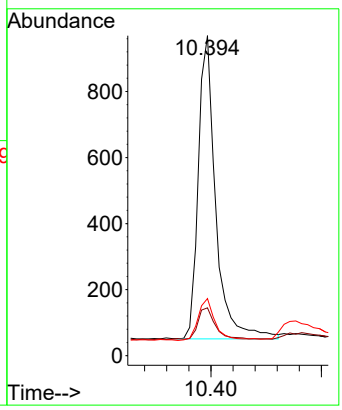


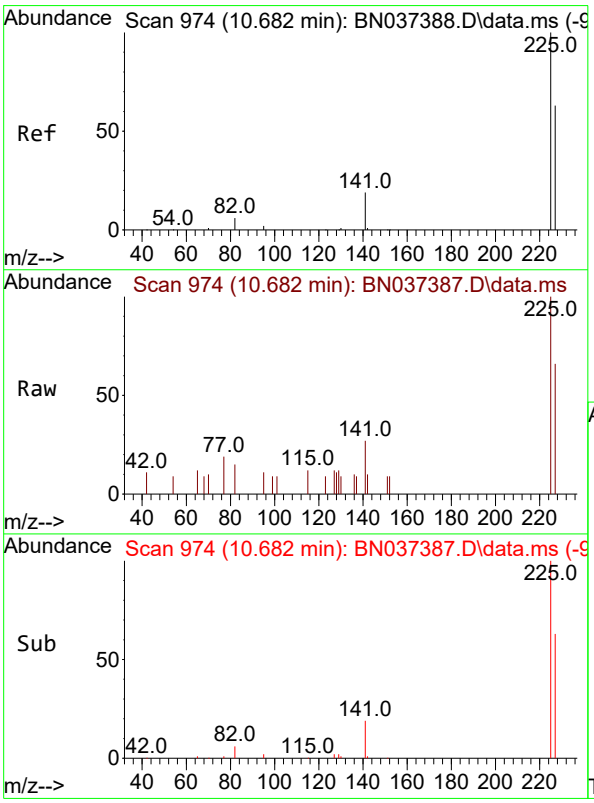
#9
Naphthalene
Concen: 0.194 ng
RT: 10.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2012

Ion	Ratio	Lower	Upper
128	100		
129	15.0	10.4	15.6
127	17.9	12.2	18.4

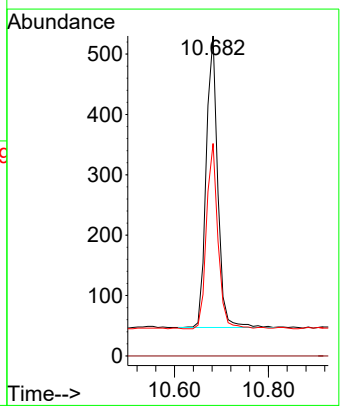


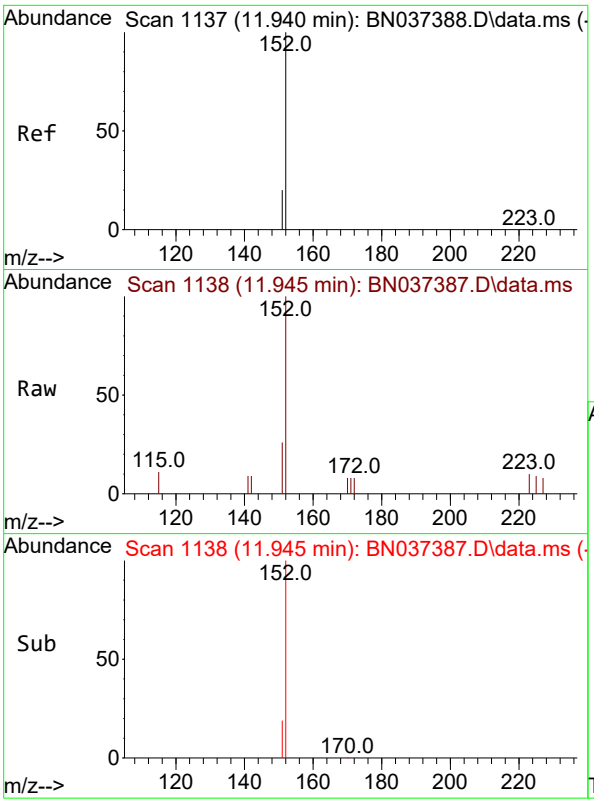


#10
Hexachlorobutadiene
Concen: 0.201 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:225 Resp: 824

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	49.9	74.9



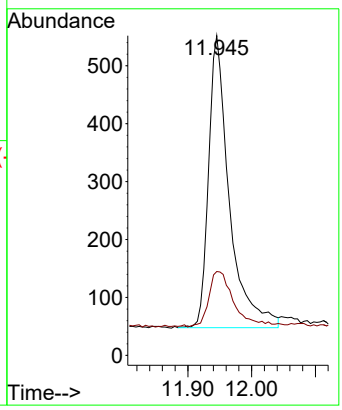


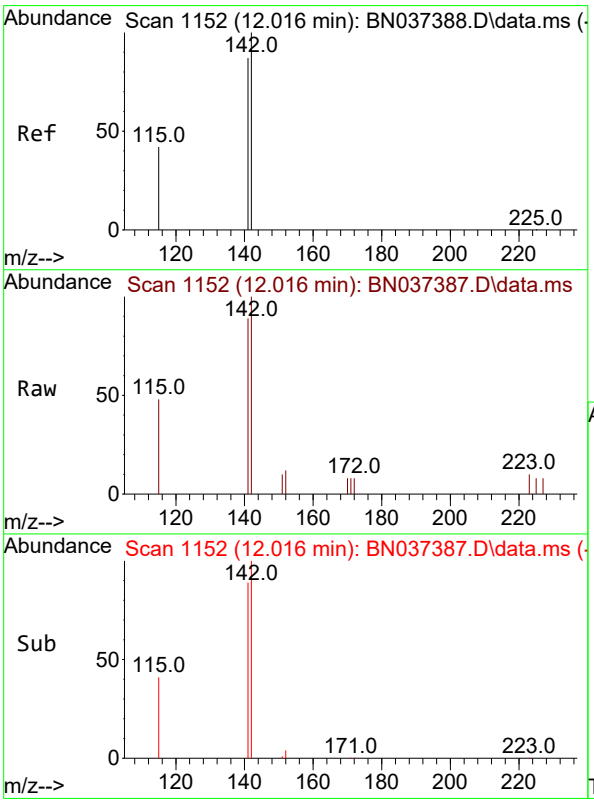
#11
2-Methylnaphthalene-d10
Concen: 0.183 ng
RT: 11.945 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1139

Ion	Ratio	Lower	Upper
152	100		
151	23.1	18.4	27.6

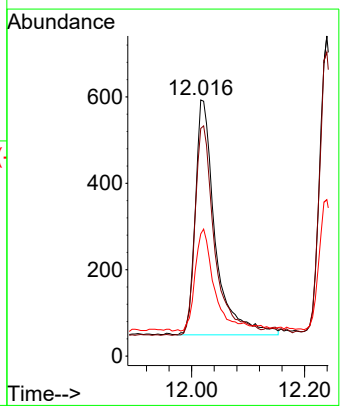


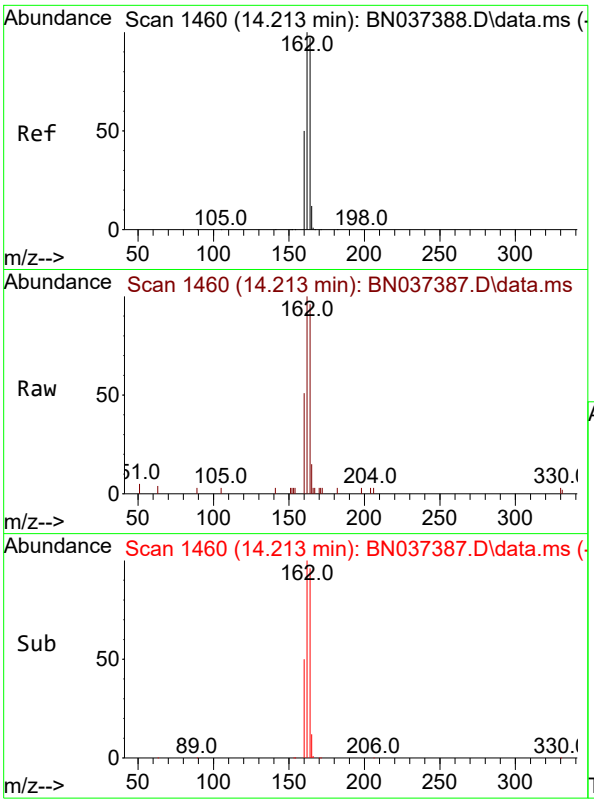


#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:142 Resp: 1337

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.1	105.1
115	47.7	35.8	53.6



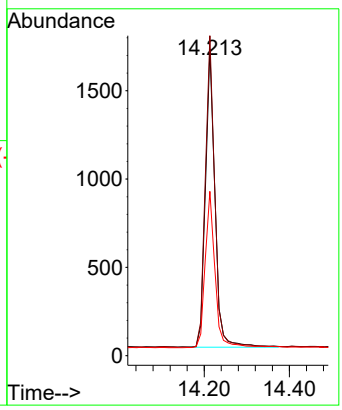


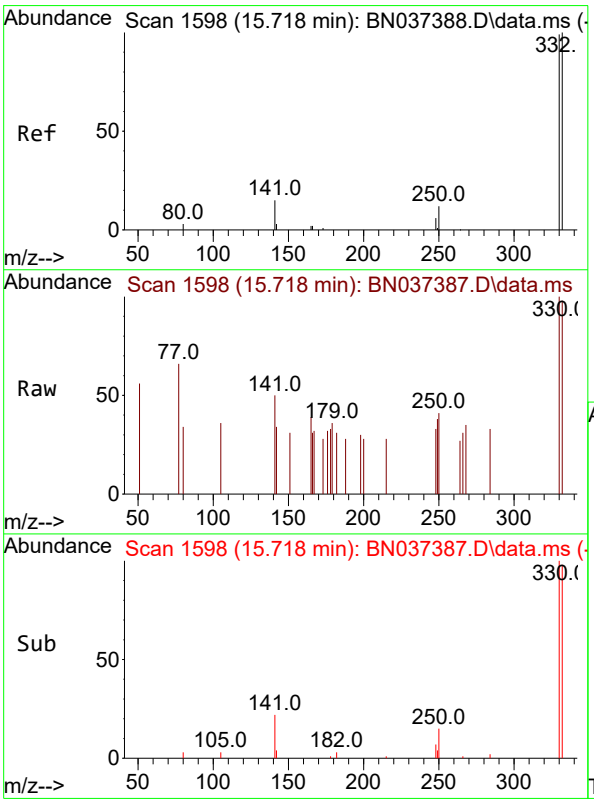
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 2635

Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.6	123.8
160	53.6	42.2	63.2

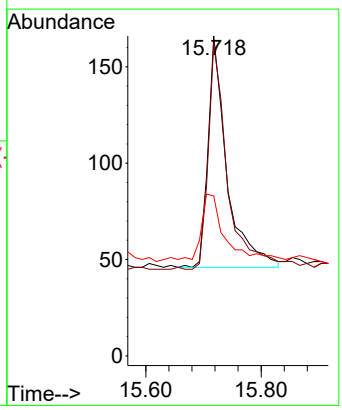


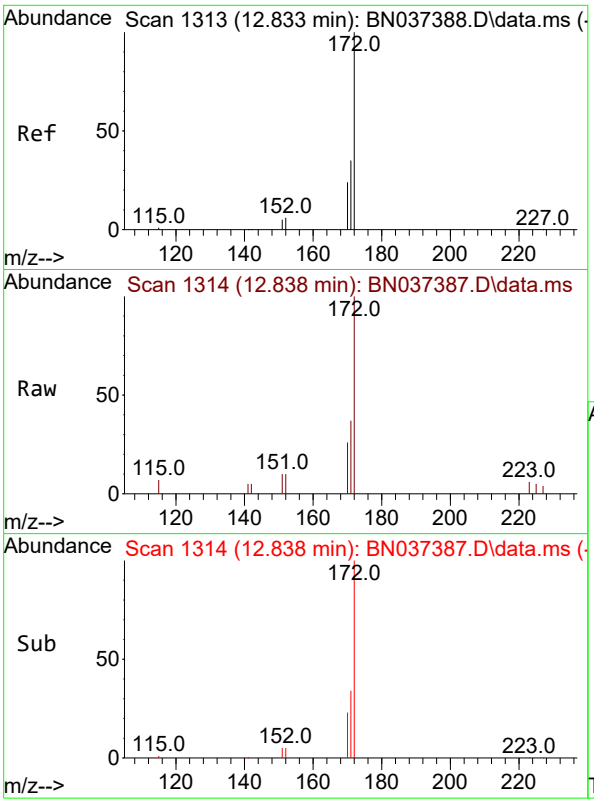


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:330 Resp: 273

Ion	Ratio	Lower	Upper
330	100		
332	101.8	77.8	116.8
141	35.2	24.0	36.0



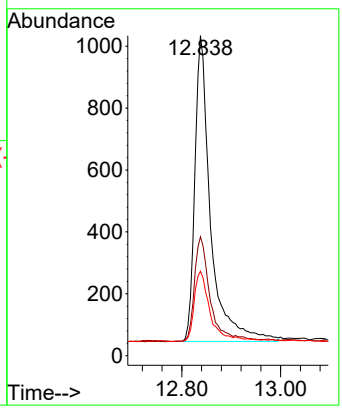


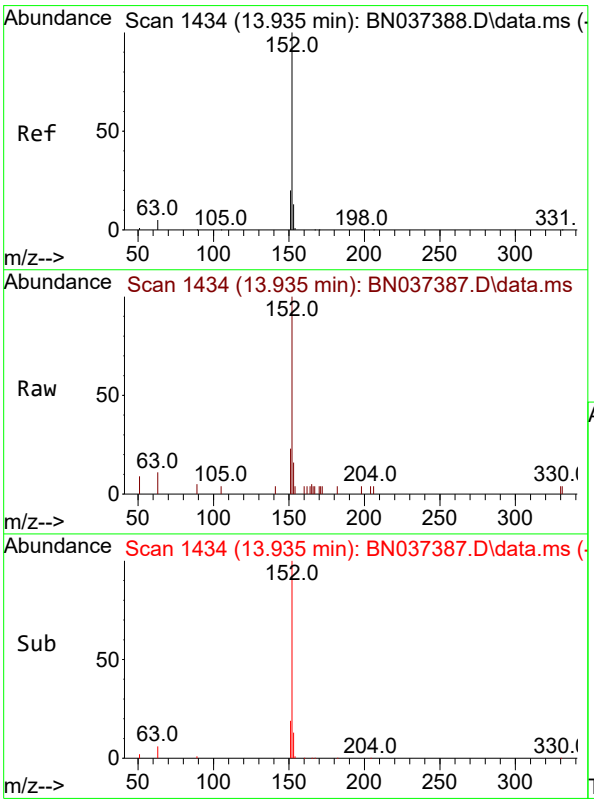
#15
2-Fluorobiphenyl
Concen: 0.192 ng
RT: 12.838 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2182

Ion	Ratio	Lower	Upper
172	100		
171	37.1	28.8	43.2
170	26.4	20.3	30.5

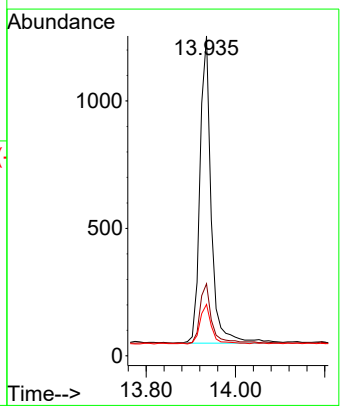


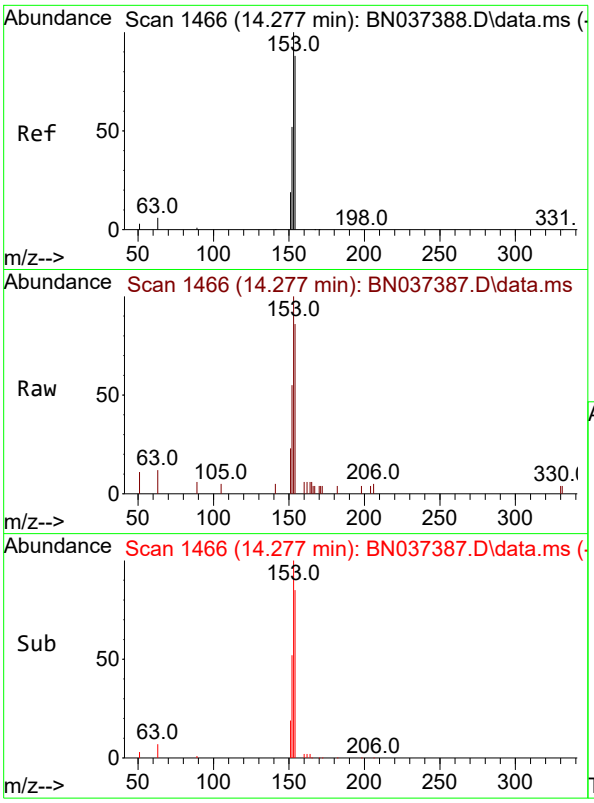


#16
Acenaphthylene
Concen: 0.193 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:152 Resp: 2108

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.6
153	12.8	10.3	15.5



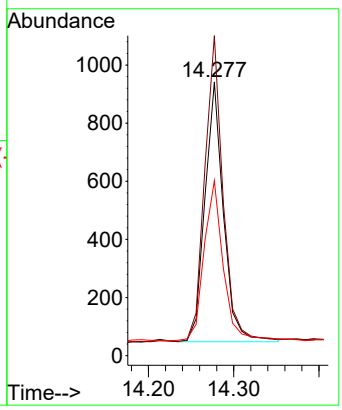


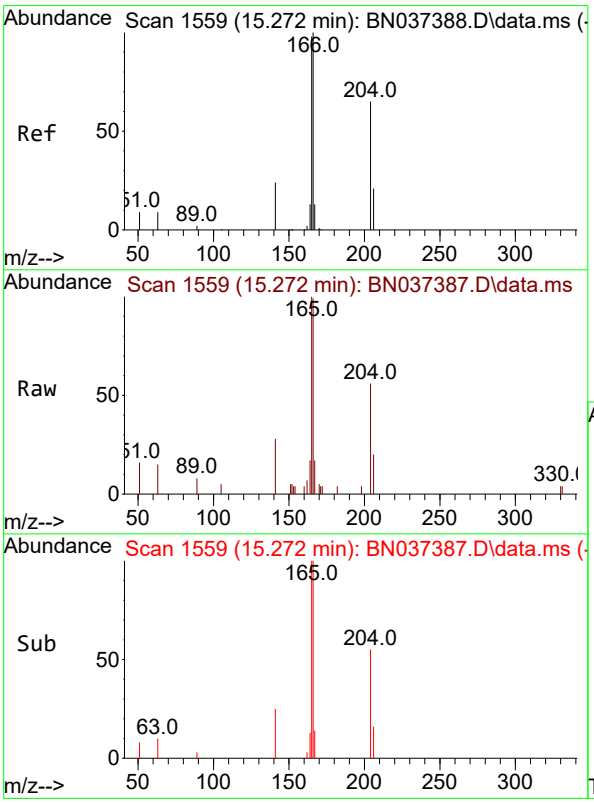
#17
Acenaphthene
Concen: 0.190 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 1353

Ion	Ratio	Lower	Upper
154	100		
153	118.8	94.6	141.8
152	63.5	50.2	75.2

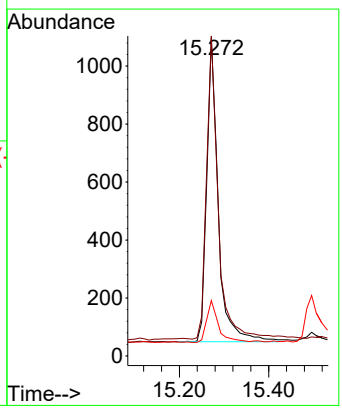


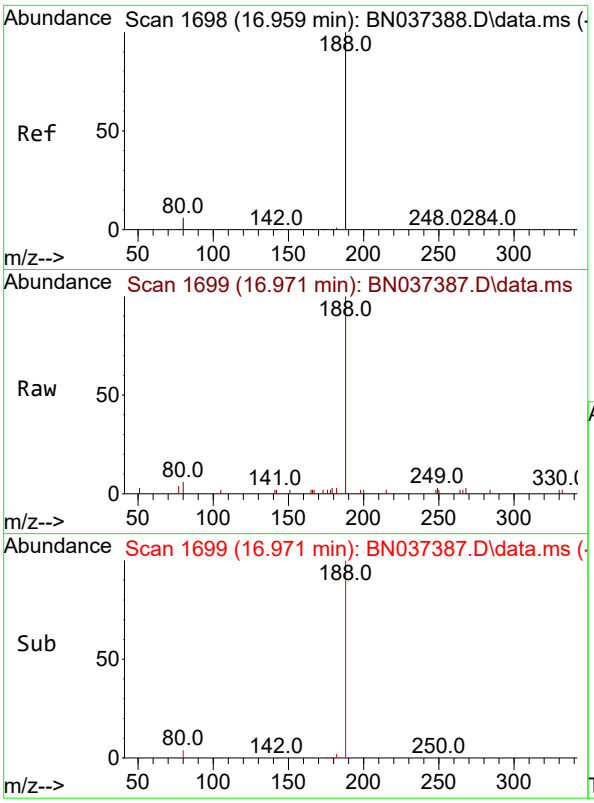


#18
Fluorene
Concen: 0.185 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:166 Resp: 1867

Ion	Ratio	Lower	Upper
166	100		
165	101.4	79.4	119.2
167	14.0	10.6	15.8



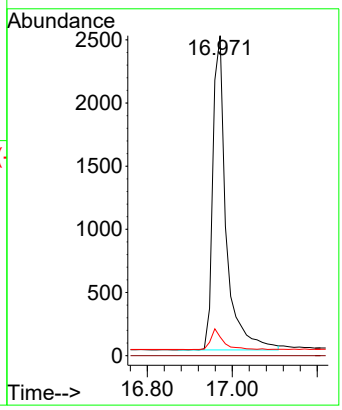


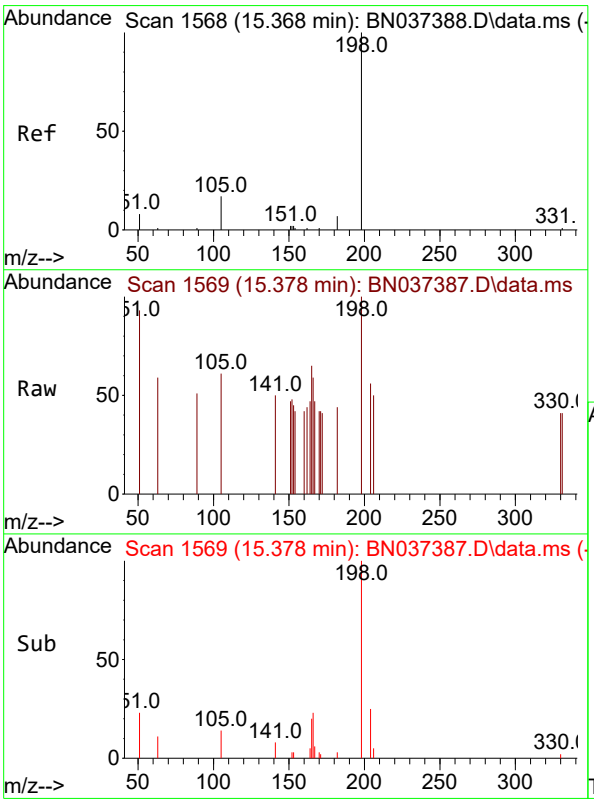
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 5416

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.8	6.2	9.4#

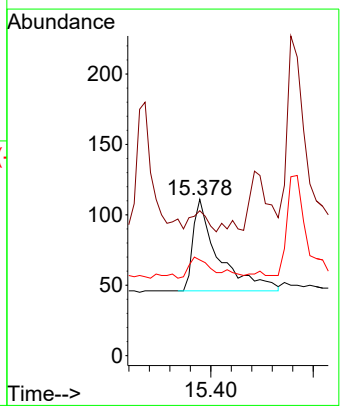


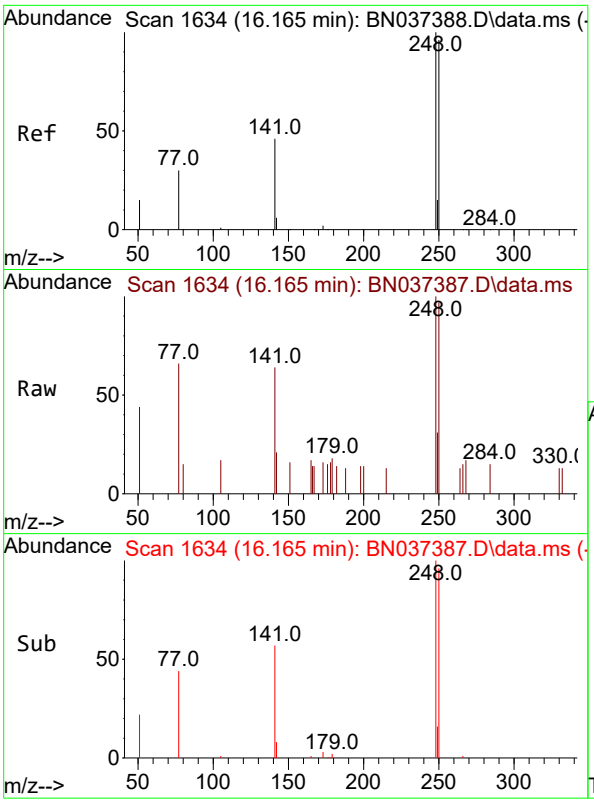


#20
4,6-Dinitro-2-methylphenol
Concen: 0.164 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:198 Resp: 228

Ion	Ratio	Lower	Upper
198	100		
51	92.8	38.8	58.2#
105	61.3	29.8	44.6#



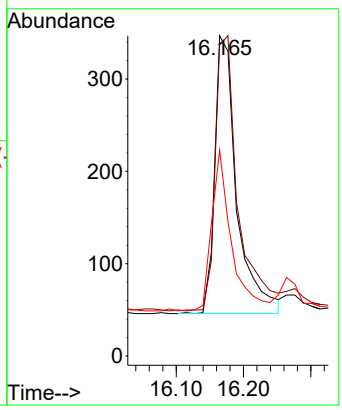


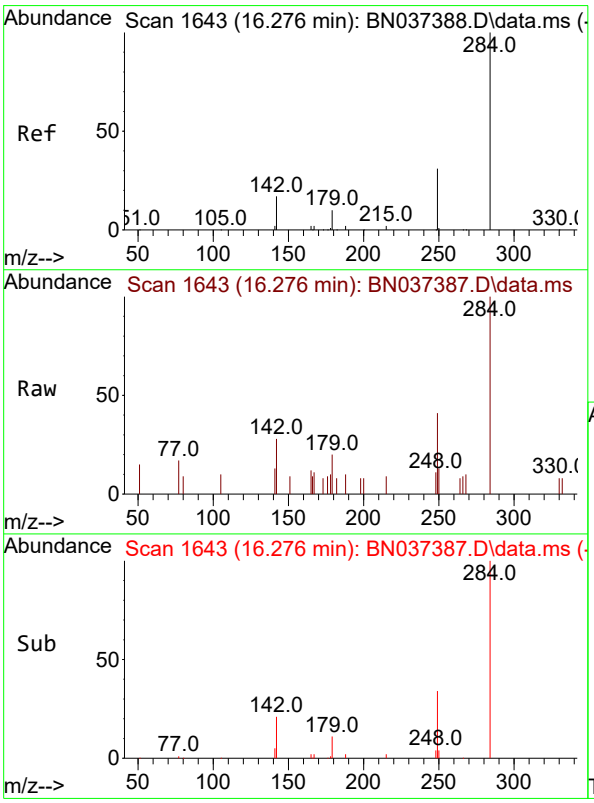
#21
4-Bromophenyl-phenylether
Concen: 0.179 ng
RT: 16.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 684

Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.0	115.4
141	64.3	38.7	58.1#

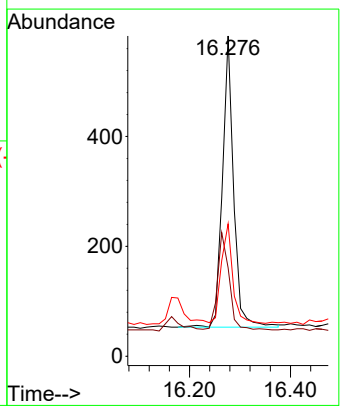


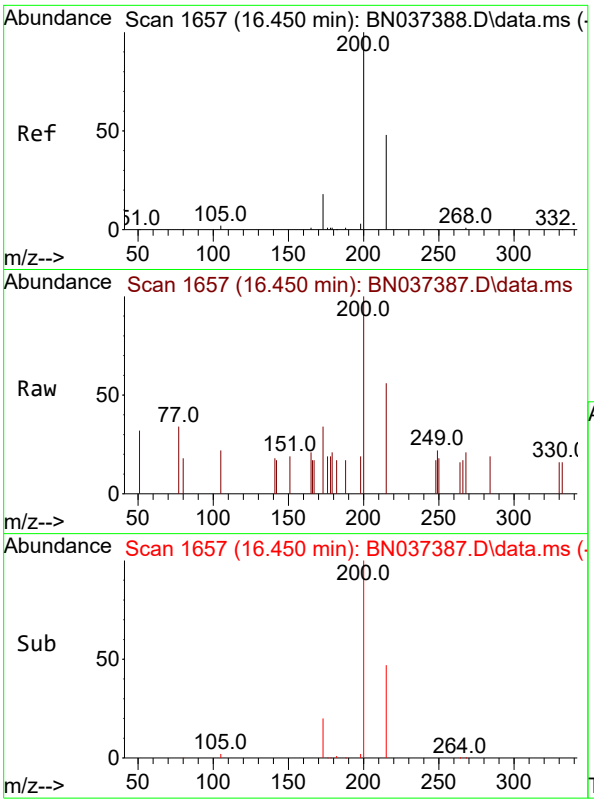


#22
Hexachlorobenzene
Concen: 0.197 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:284 Resp: 809

Ion	Ratio	Lower	Upper
284	100		
142	35.0	27.2	40.8
249	35.1	26.7	40.1



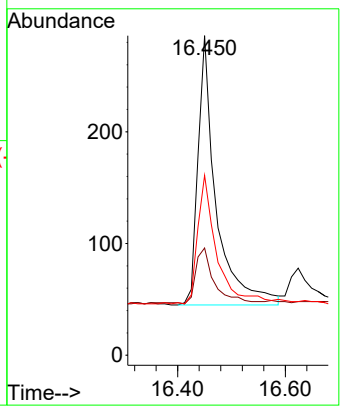


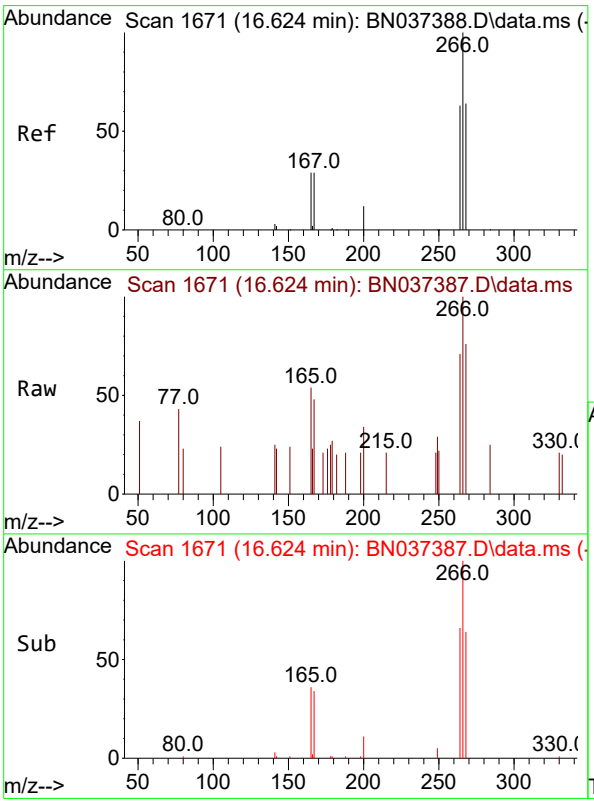
#23
Atrazine
Concen: 0.186 ng
RT: 16.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 563

Ion	Ratio	Lower	Upper
200	100		
173	33.6	19.0	28.6#
215	56.3	41.3	61.9

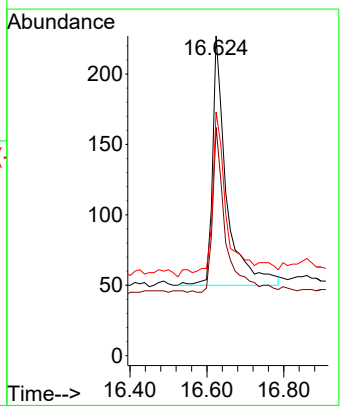


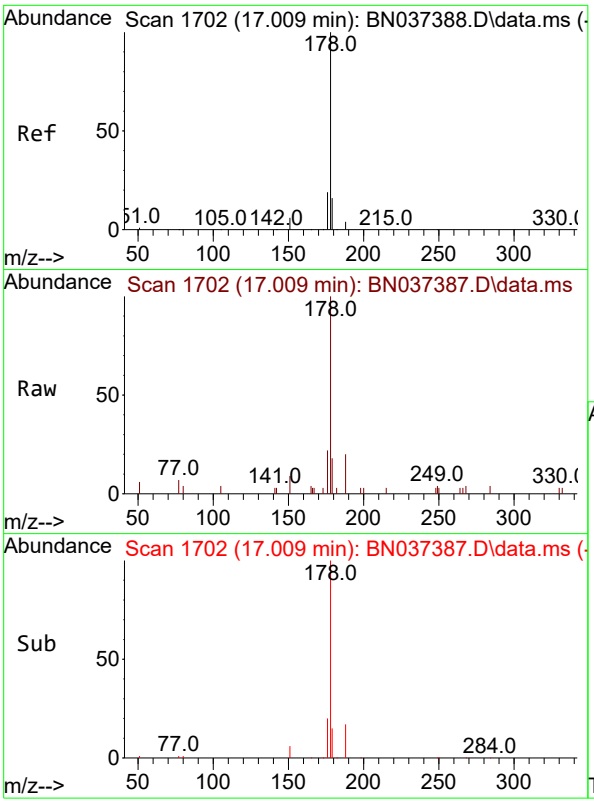


#24
Pentachlorophenol
Concen: 0.201 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	61.6	49.2	73.8
268	59.1	54.2	81.4



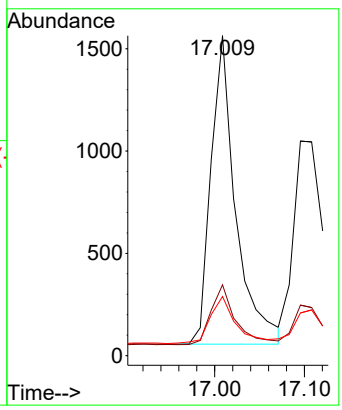


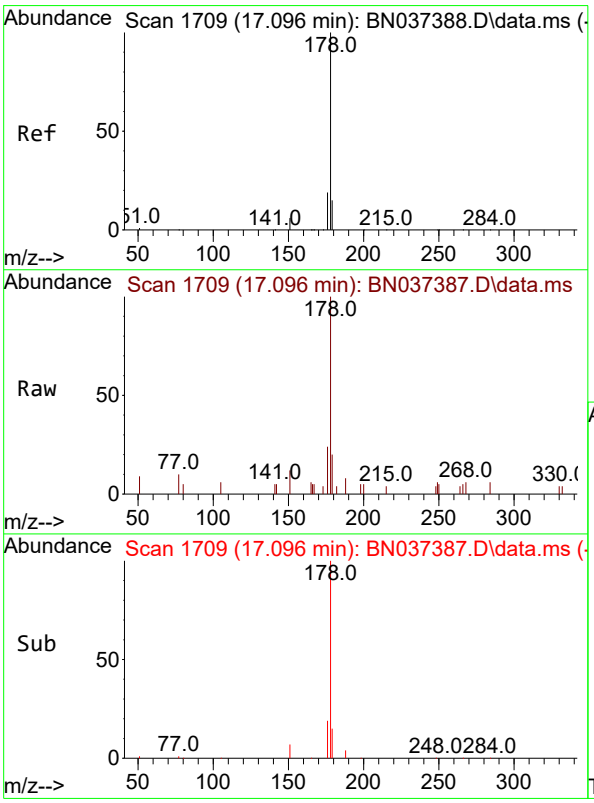
#25
Phenanthrene
Concen: 0.189 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 2890

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.6	23.4
179	15.7	12.8	19.2

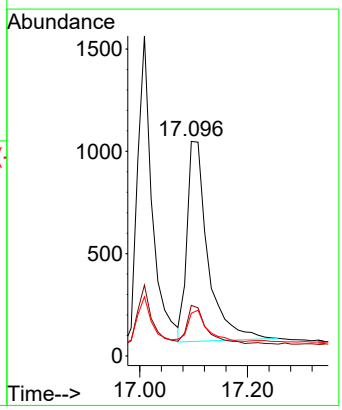


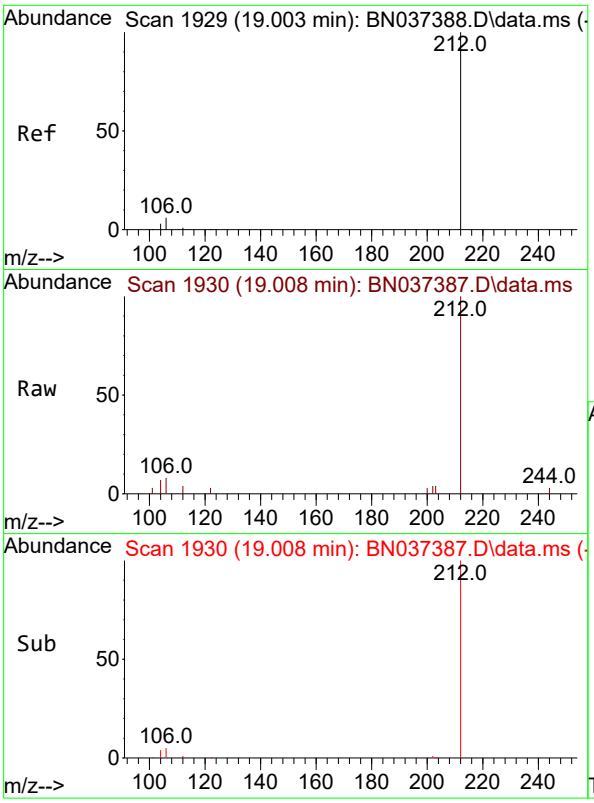


#26
Anthracene
Concen: 0.188 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:178 Resp: 2632

Ion	Ratio	Lower	Upper
178	100		
176	17.3	14.9	22.3
179	15.5	12.4	18.6



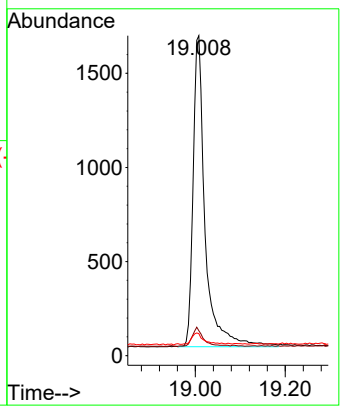


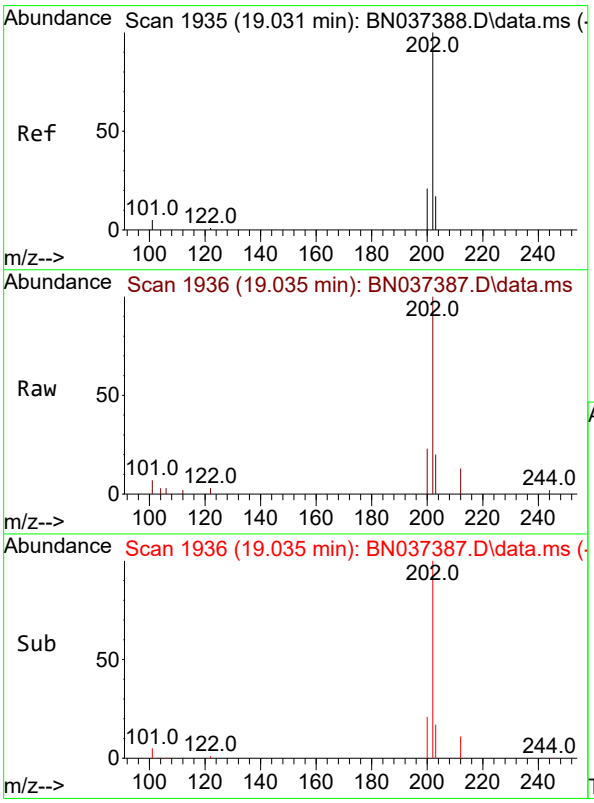
#27
Fluoranthene-d10
Concen: 0.198 ng
RT: 19.008 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 3080

Ion	Ratio	Lower	Upper
212	100		
106	5.6	4.5	6.7
104	3.8	2.7	4.1

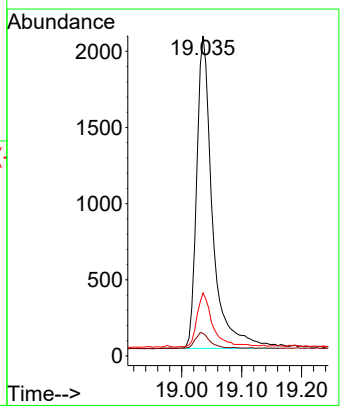


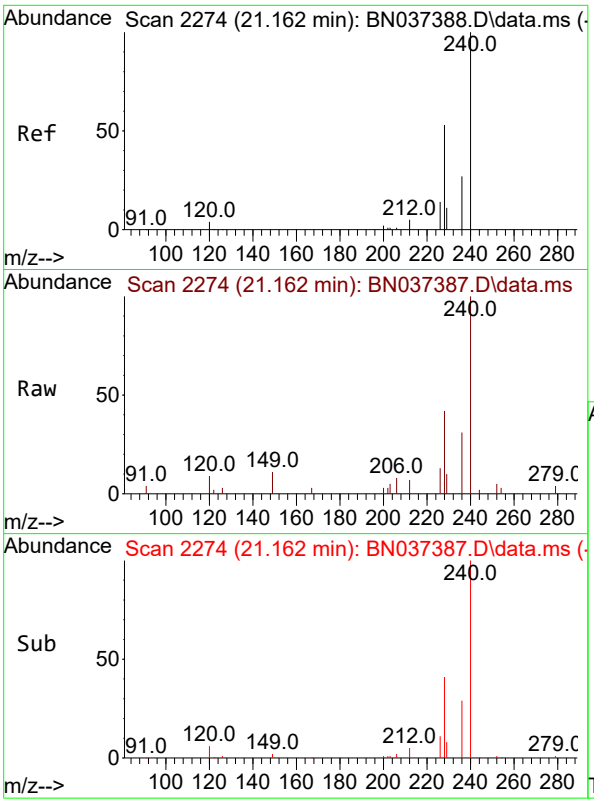


#28
Fluoranthene
Concen: 0.194 ng
RT: 19.035 min Scan# 1936
Delta R.T. 0.005 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:202 Resp: 3786

Ion	Ratio	Lower	Upper
202	100		
101	4.8	3.8	5.6
203	17.2	13.5	20.3



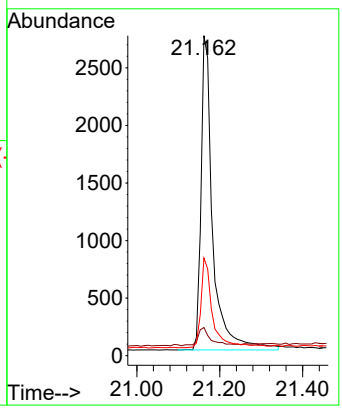


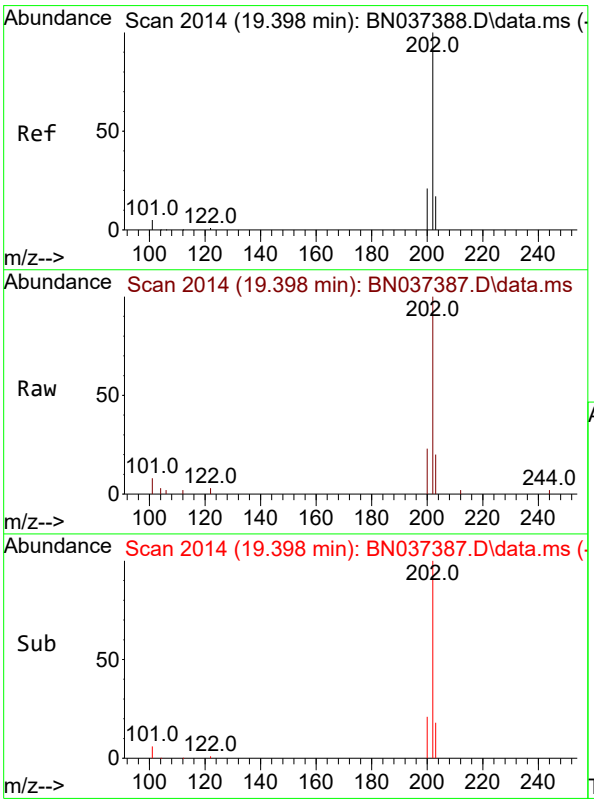
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 5370

Ion	Ratio	Lower	Upper
240	100		
120	8.8	5.3	7.9#
236	30.5	22.7	34.1

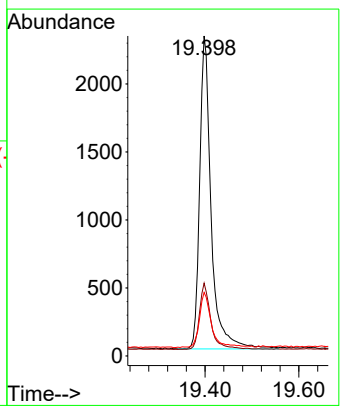


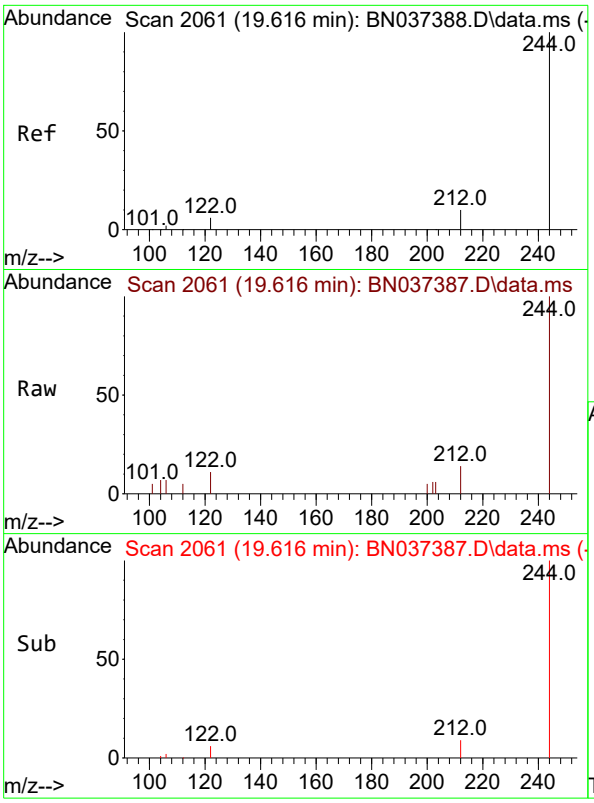


#30
Pyrene
Concen: 0.191 ng
RT: 19.398 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:202 Resp: 3891

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.5	24.7
203	18.6	14.2	21.2



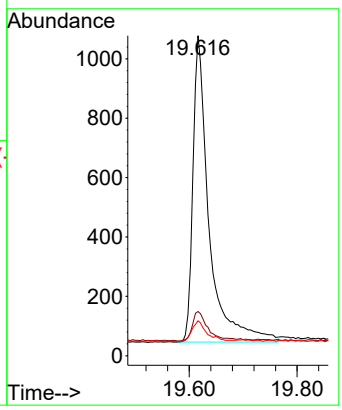


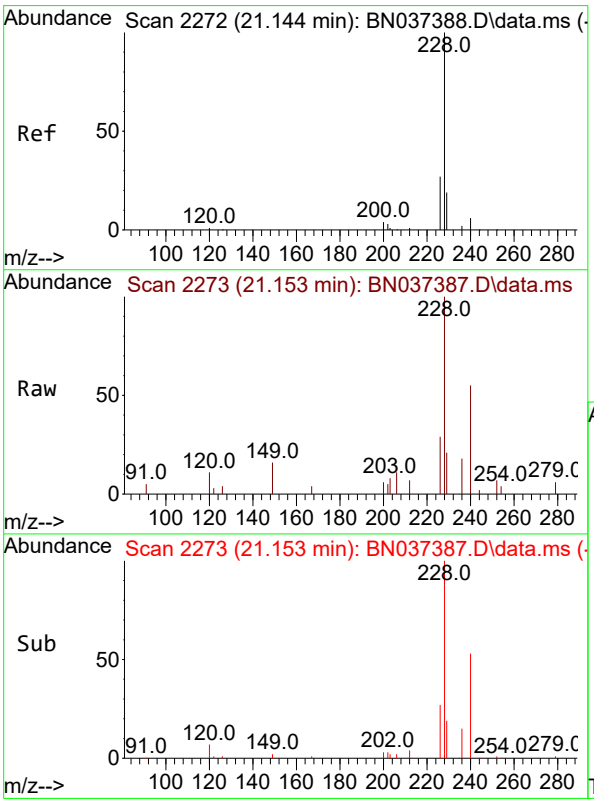
#31
Terphenyl-d14
Concen: 0.186 ng
RT: 19.616 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 2132

Ion	Ratio	Lower	Upper
244	100		
212	13.8	9.1	13.7#
122	10.9	6.3	9.5#

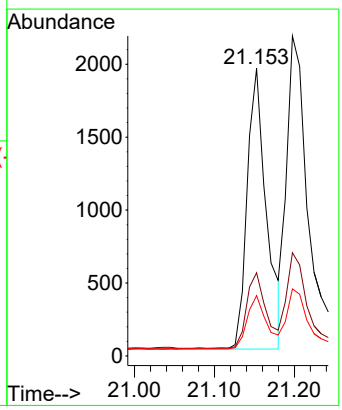


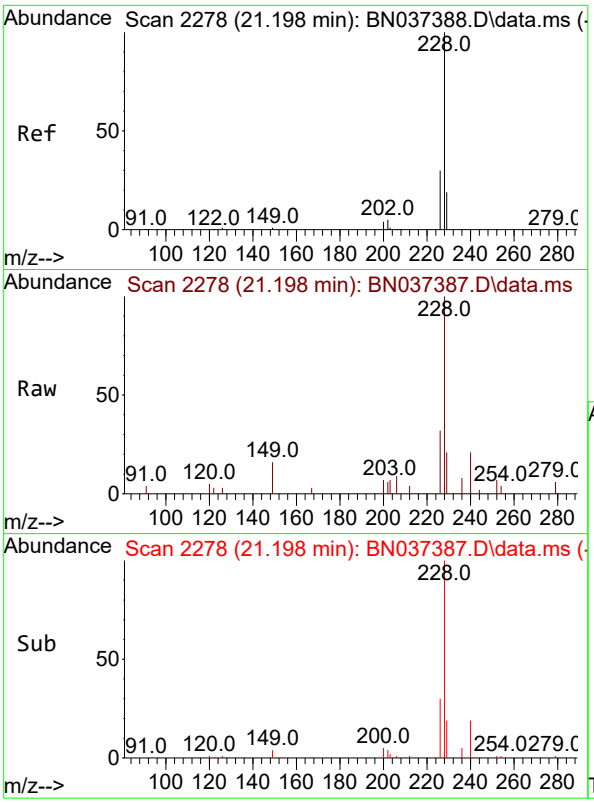


#32
Benzo(a)anthracene
Concen: 0.191 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:228 Resp: 3228

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	34.0
229	21.0	16.2	24.2



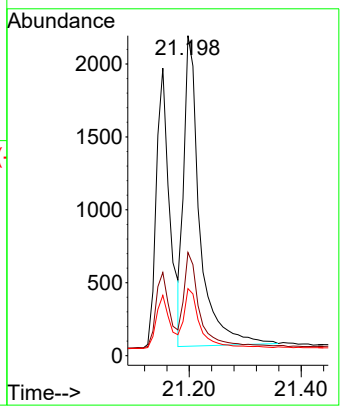


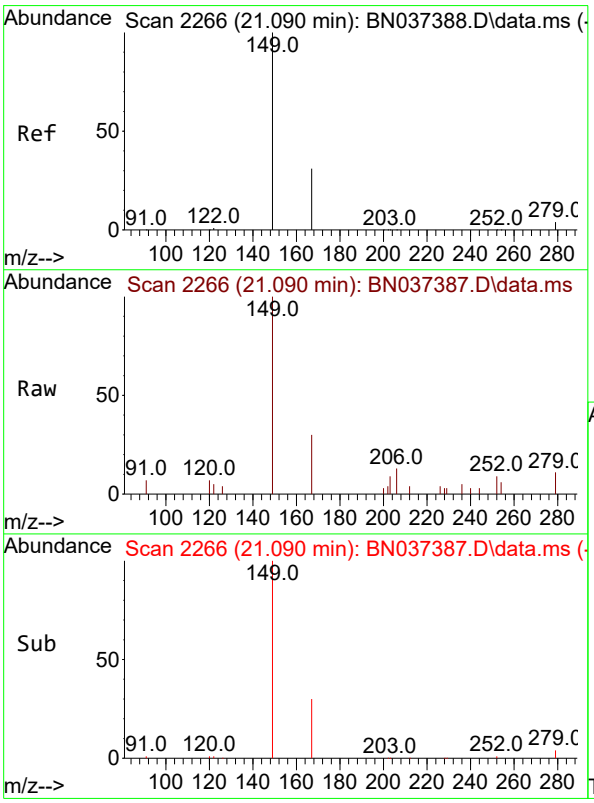
#33
Chrysene
Concen: 0.202 ng
RT: 21.198 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 4224

Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.5	36.7
229	20.9	16.1	24.1

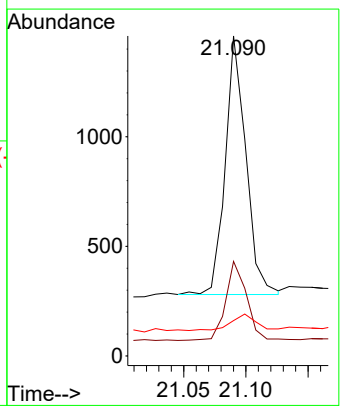


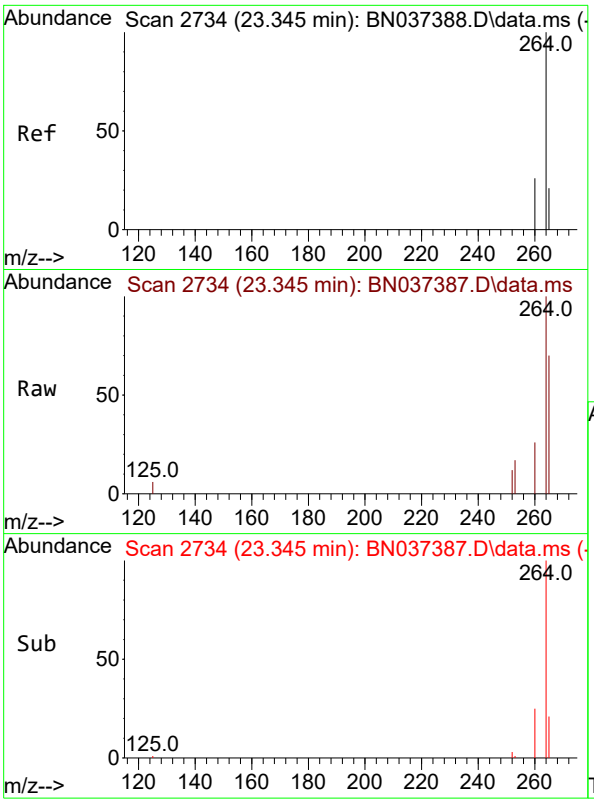


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.204 ng
RT: 21.090 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:149 Resp: 1366

Ion	Ratio	Lower	Upper
149	100		
167	30.9	24.8	37.2
279	7.6	5.0	7.6#



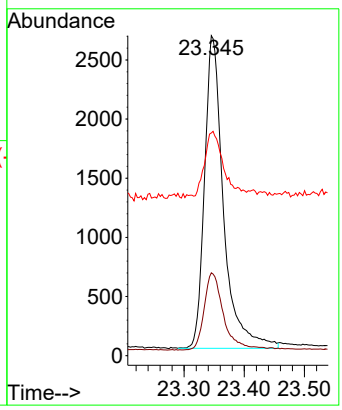


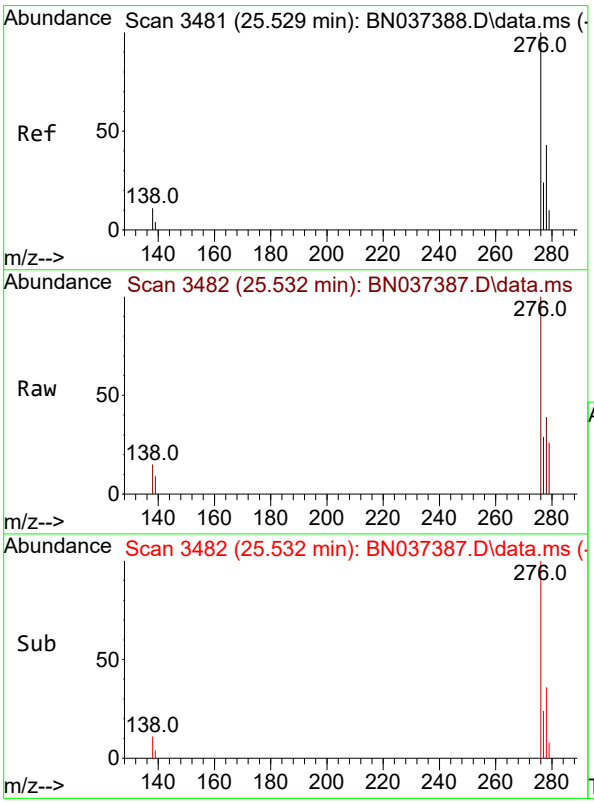
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 5780

Ion	Ratio	Lower	Upper
264	100		
260	25.9	21.4	32.0
265	69.6	56.2	84.4

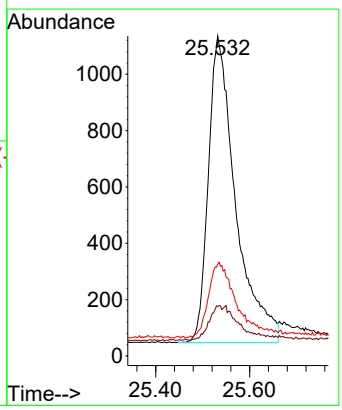


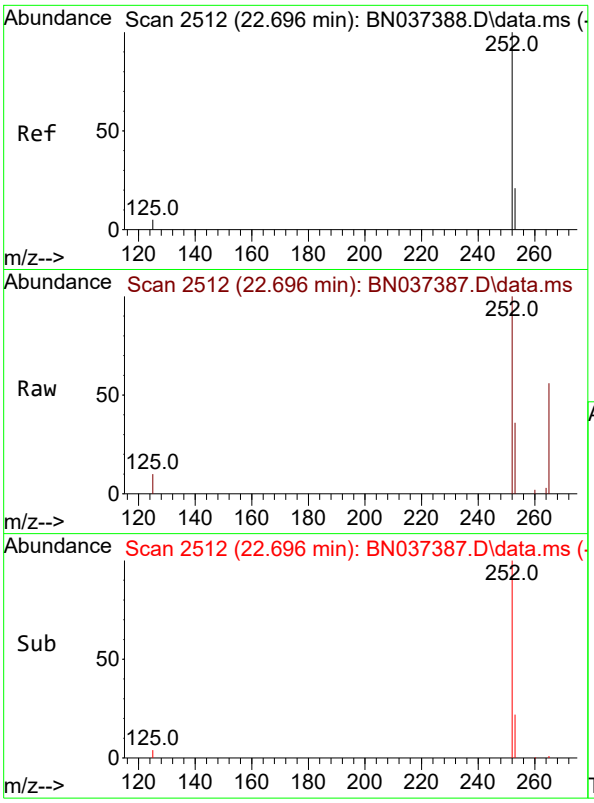


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.180 ng
RT: 25.532 min Scan# 3482
Delta R.T. 0.003 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:276 Resp: 4378

Ion	Ratio	Lower	Upper
276	100		
138	5.3	8.5	12.7#
277	25.4	19.7	29.5



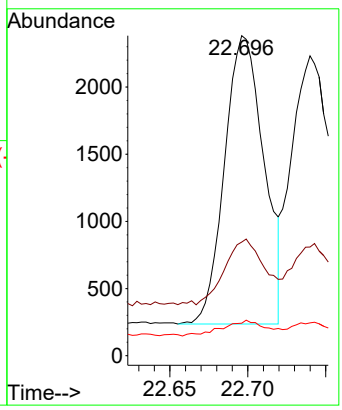


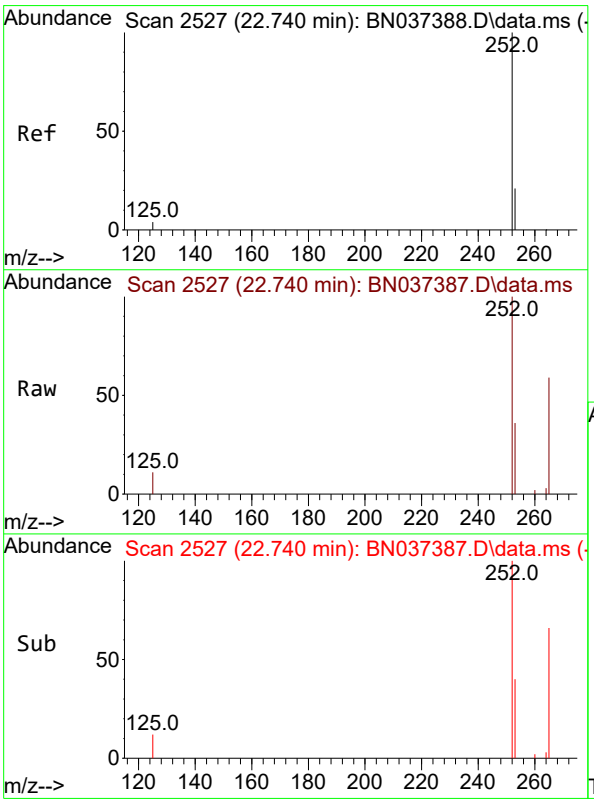
#37
Benzo(b)fluoranthene
Concen: 0.185 ng
RT: 22.696 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 3772

Ion	Ratio	Lower	Upper
252	100		
253	35.5	22.8	34.2#
125	10.2	6.2	9.4#

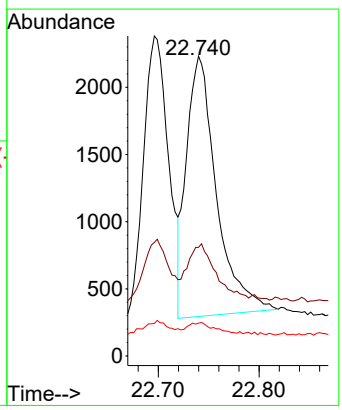


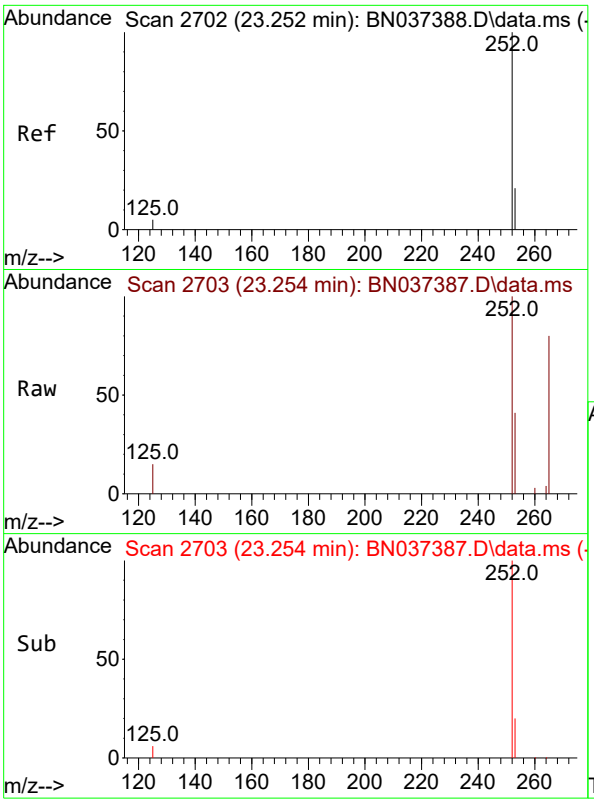


#38
Benzo(k)fluoranthene
Concen: 0.184 ng
RT: 22.740 min Scan# 2527
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:252 Resp: 4013

Ion	Ratio	Lower	Upper
252	100		
253	36.2	23.2	34.8#
125	11.0	6.0	9.0#



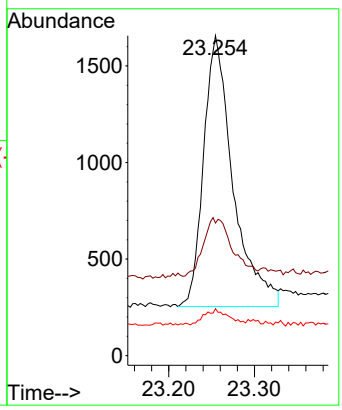


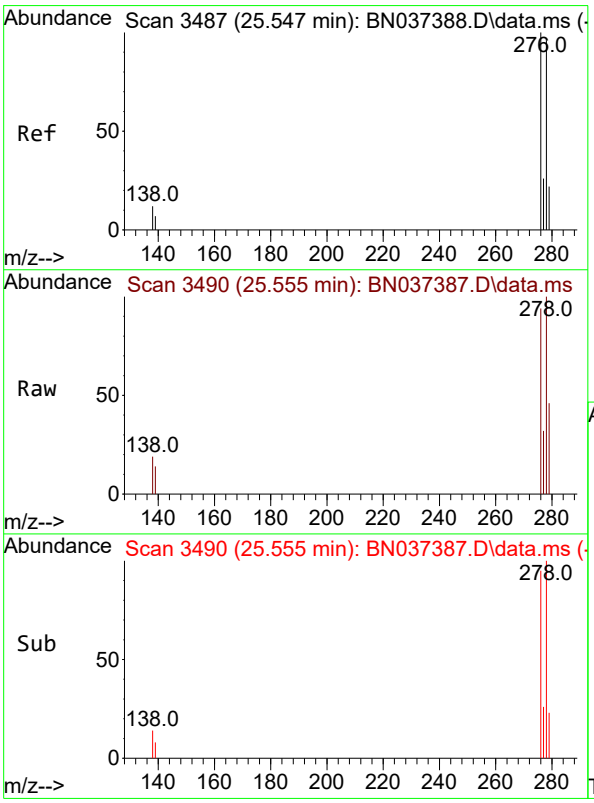
#39
Benzo(a)pyrene
Concen: 0.185 ng
RT: 23.254 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 3352

Ion	Ratio	Lower	Upper
252	100		
253	41.5	25.6	38.4#
125	14.7	7.5	11.3#

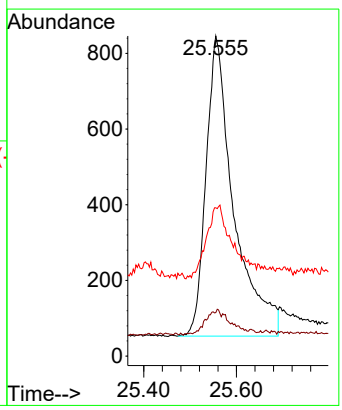


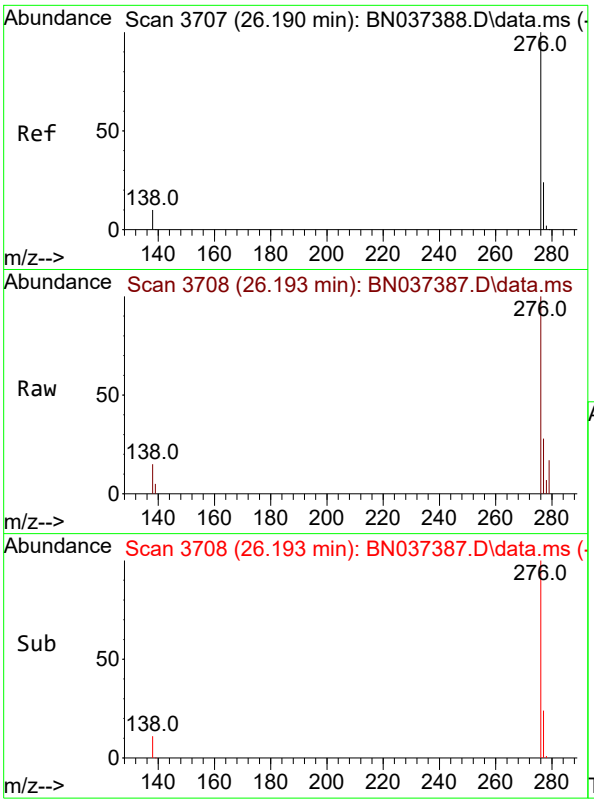


#40
Dibenzo(a,h)anthracene
Concen: 0.176 ng
RT: 25.555 min Scan# 3490
Delta R.T. 0.009 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:278 Resp: 3290

Ion	Ratio	Lower	Upper
278	100		
139	13.6	8.5	12.7#
279	46.3	27.5	41.3#



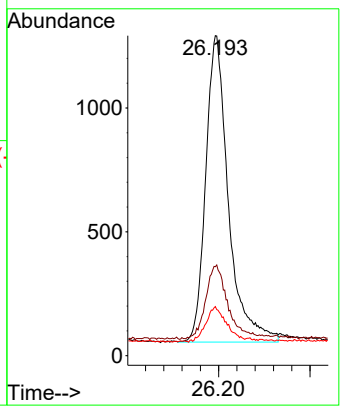


#41
Benzo(g,h,i)perylene
Concen: 0.190 ng
RT: 26.193 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 4258

Ion	Ratio	Lower	Upper
276	100		
277	27.8	21.0	31.4
138	15.3	9.6	14.4#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037388.D
Acq On : 26 Jun 2025 11:53
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 26 14:43:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	2117	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4565	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	3048	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	6284	0.400	ng		0.00
29) Chrysene-d12	21.162	240	5612	0.400	ng		0.00
35) Perylene-d12	23.345	264	5950	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1703	0.417	ng		0.00
5) Phenol-d6	6.744	99	1720	0.407	ng		0.00
8) Nitrobenzene-d5	8.717	82	1419	0.386	ng		0.00
11) 2-Methylnaphthalene-d10	11.940	152	2629	0.372	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	729	0.408	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	5253	0.399	ng		0.00
27) Fluoranthene-d10	19.003	212	6680	0.371	ng		0.00
31) Terphenyl-d14	19.616	244	4873	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	781	0.412	ng		100
3) n-Nitrosodimethylamine	3.422	42	792	0.399	ng		100
6) bis(2-Chloroethyl)ether	6.997	93	1521	0.404	ng		100
9) Naphthalene	10.394	128	4559	0.388	ng		100
10) Hexachlorobutadiene	10.682	225	1887	0.405	ng	#	100
12) 2-Methylnaphthalene	12.016	142	3122	0.386	ng		100
16) Acenaphthylene	13.935	152	4804	0.380	ng		100
17) Acenaphthene	14.277	154	3185	0.386	ng		100
18) Fluorene	15.272	166	4498	0.386	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	535	0.331	ng		100
21) 4-Bromophenyl-phenylether	16.165	248	1694	0.382	ng		100
22) Hexachlorobenzene	16.276	284	1899	0.398	ng		100
23) Atrazine	16.450	200	1336	0.380	ng		100
24) Pentachlorophenol	16.624	266	973	0.378	ng		99
25) Phenanthrene	17.009	178	6787	0.383	ng		100
26) Anthracene	17.096	178	6087	0.374	ng		100
28) Fluoranthene	19.031	202	8557	0.378	ng		100
30) Pyrene	19.398	202	8607	0.405	ng		100
32) Benzo(a)anthracene	21.144	228	6549	0.371	ng		100
33) Chrysene	21.198	228	8883	0.407	ng		100
34) Bis(2-ethylhexyl)phtha...	21.090	149	2830	0.405	ng		100
36) Indeno(1,2,3-cd)pyrene	25.529	276	9382	0.374	ng		100
37) Benzo(b)fluoranthene	22.696	252	7840	0.374	ng		100
38) Benzo(k)fluoranthene	22.740	252	8696	0.388	ng		100
39) Benzo(a)pyrene	23.252	252	7038	0.377	ng		100
40) Dibenzo(a,h)anthracene	25.547	278	7205	0.374	ng		100
41) Benzo(g,h,i)perylene	26.190	276	8788	0.382	ng		100

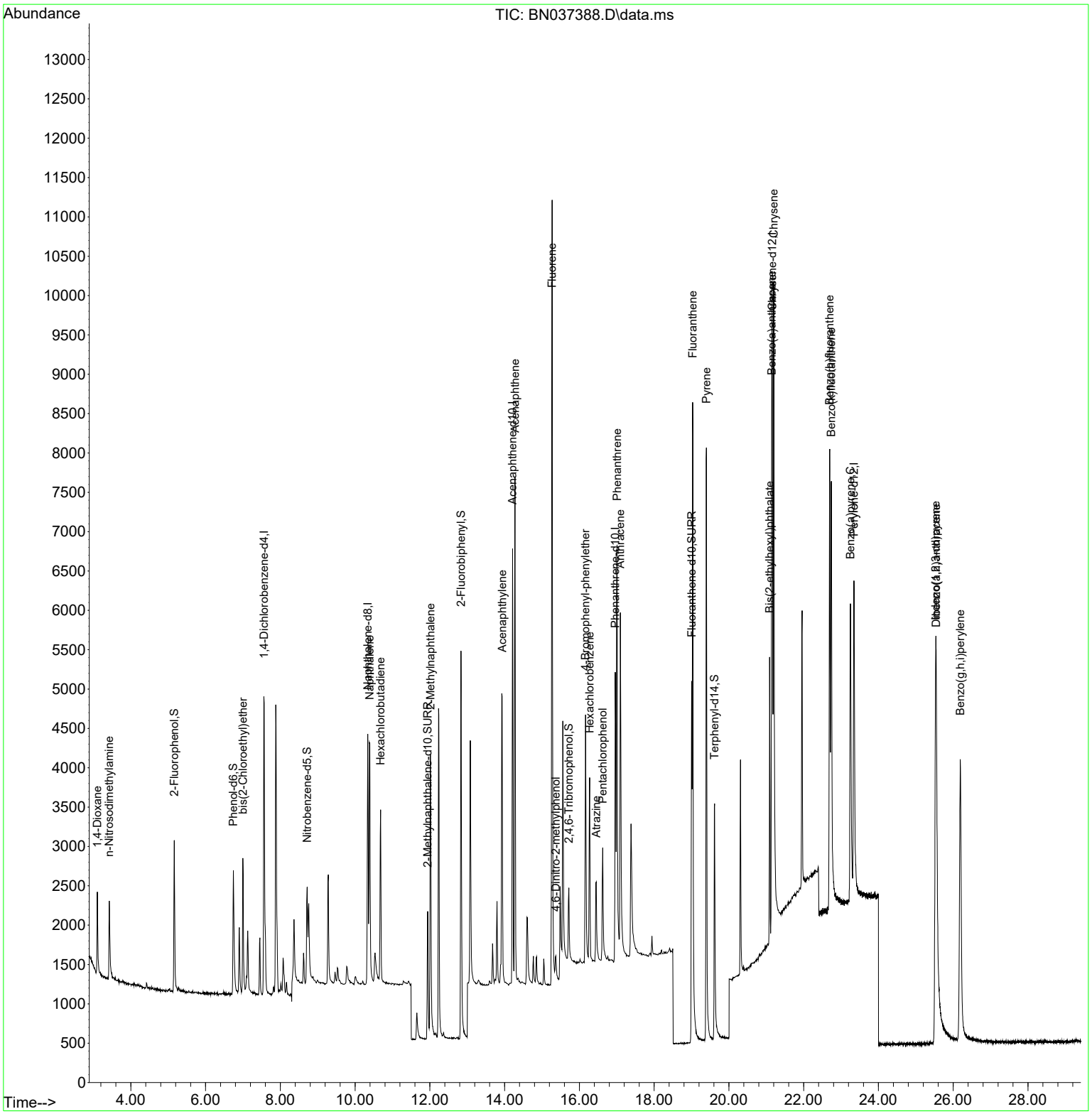
(#) = qualifier out of range (m) = manual integration (+) = signals summed

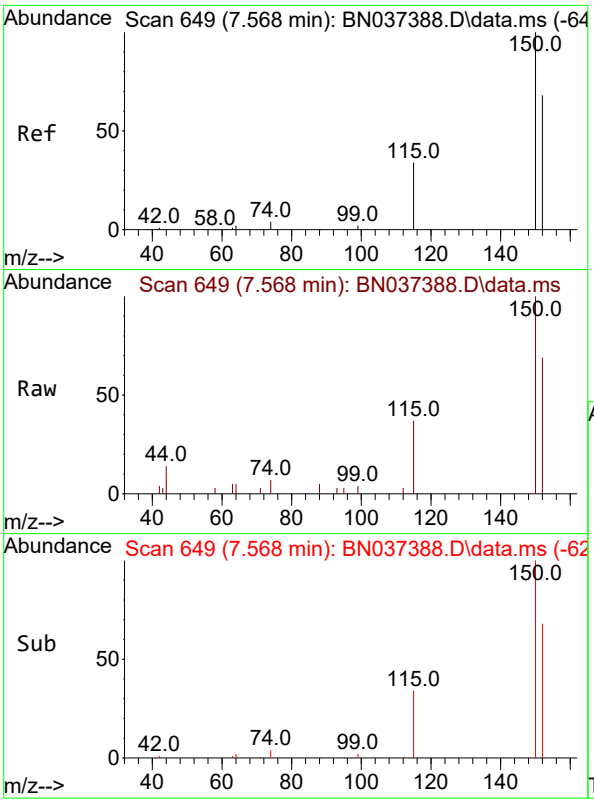
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037388.D
Acq On : 26 Jun 2025 11:53
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 26 14:43:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration



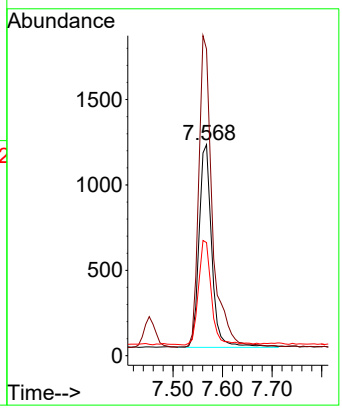


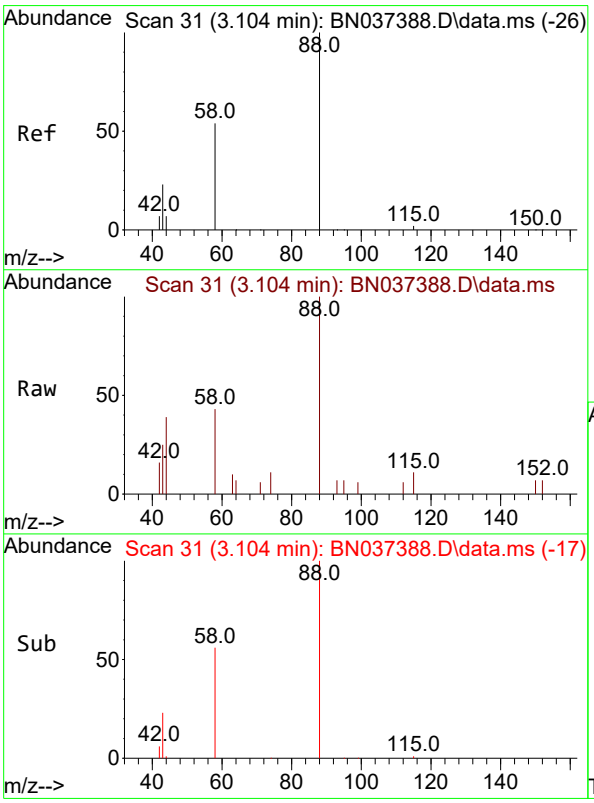
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2117

Ion	Ratio	Lower	Upper
152	100		
150	145.2	116.2	174.2
115	53.6	42.9	64.3

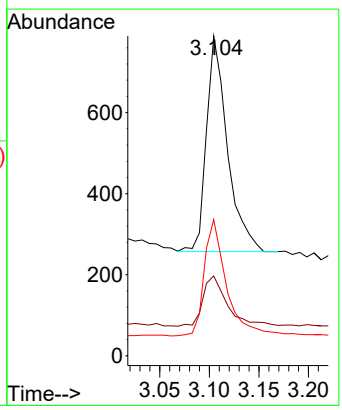


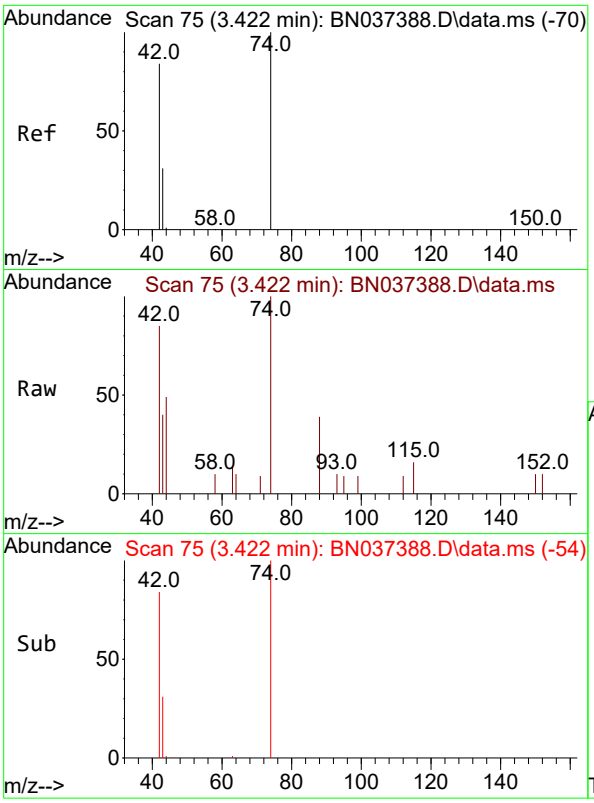


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion: 88 Resp: 781

Ion	Ratio	Lower	Upper
88	100		
43	27.0	21.6	32.4
58	57.4	45.9	68.9



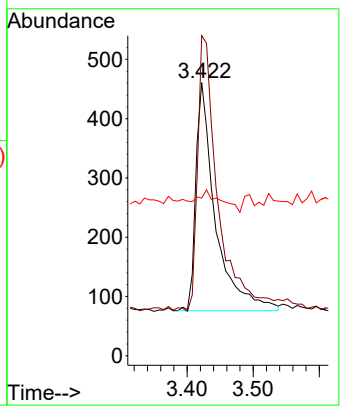


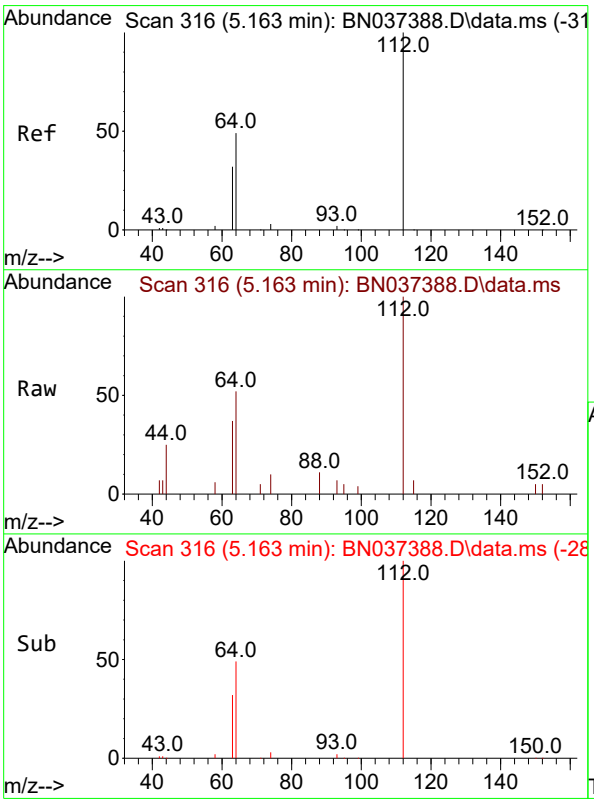
#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 792

Ion	Ratio	Lower	Upper
42	100		
74	122.3	97.8	146.8
44	10.9	8.7	13.1

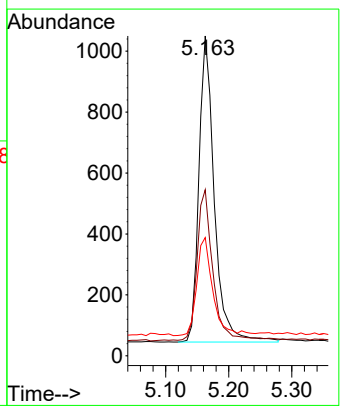


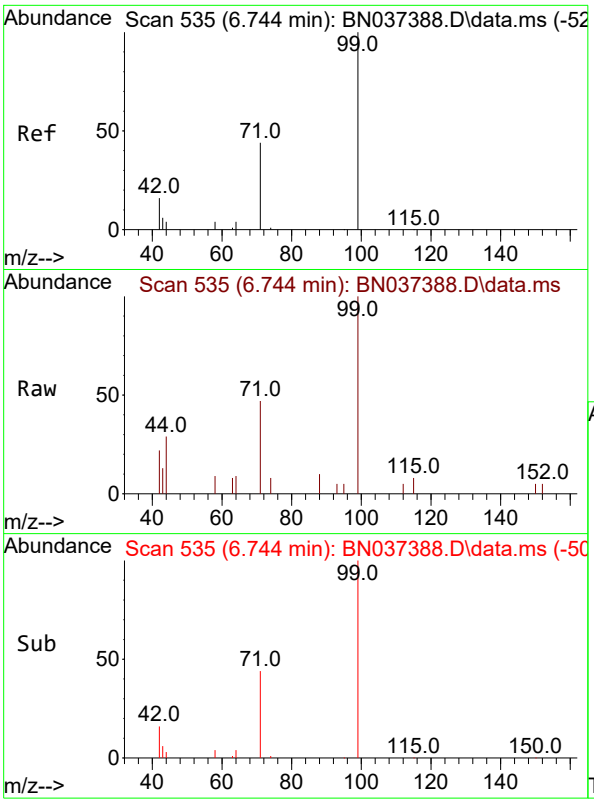


#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:112 Resp: 1703

Ion	Ratio	Lower	Upper
112	100		
64	50.4	40.3	60.5
63	32.6	26.1	39.1



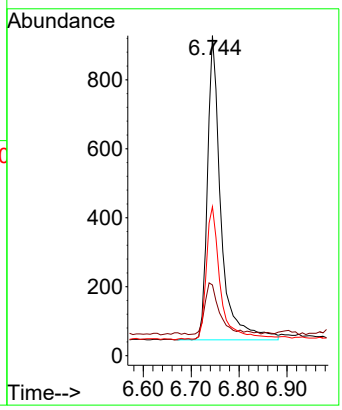


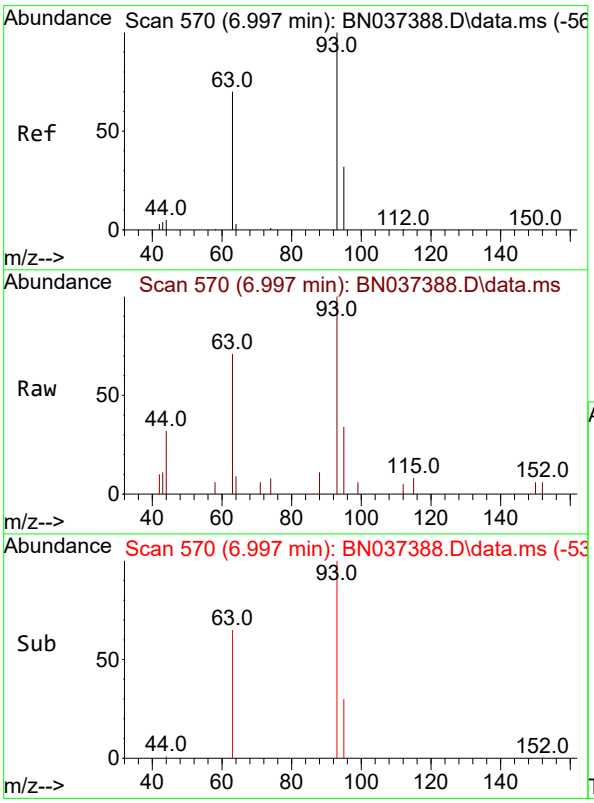
#5
Phenol-d6
Concen: 0.407 ng
RT: 6.744 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 1720

Ion	Ratio	Lower	Upper
99	100		
42	19.2	15.6	23.4
71	44.8	35.8	53.8

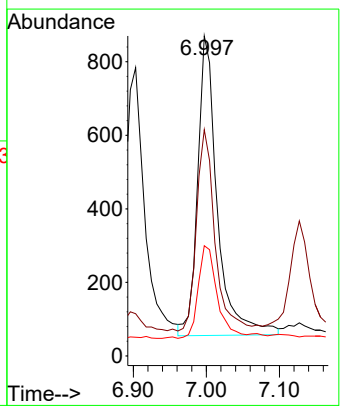


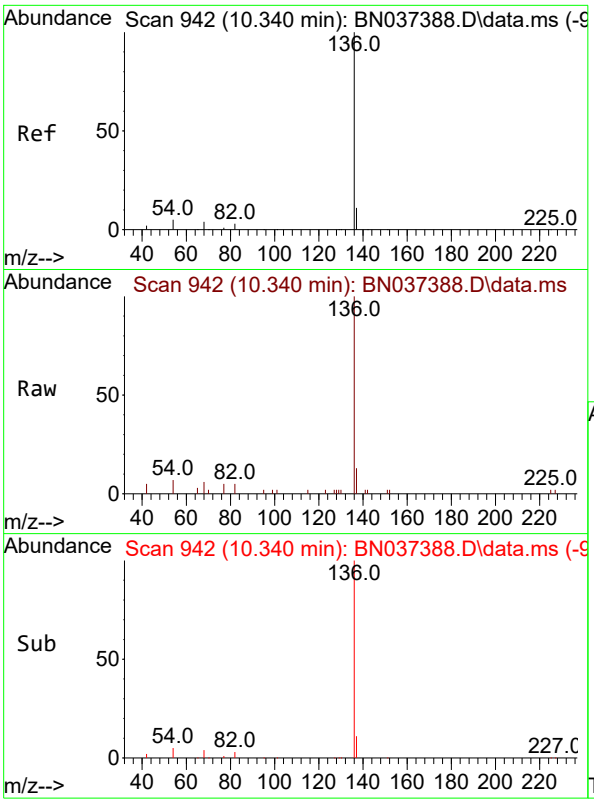


#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion: 93 Resp: 1521

Ion	Ratio	Lower	Upper
93	100		
63	62.3	49.6	74.4
95	30.0	23.9	35.9



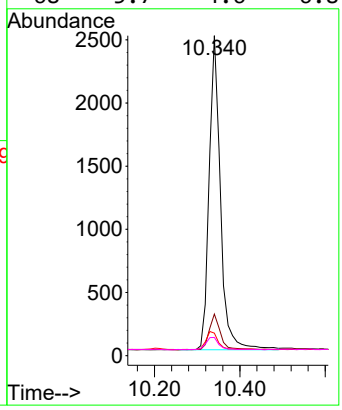


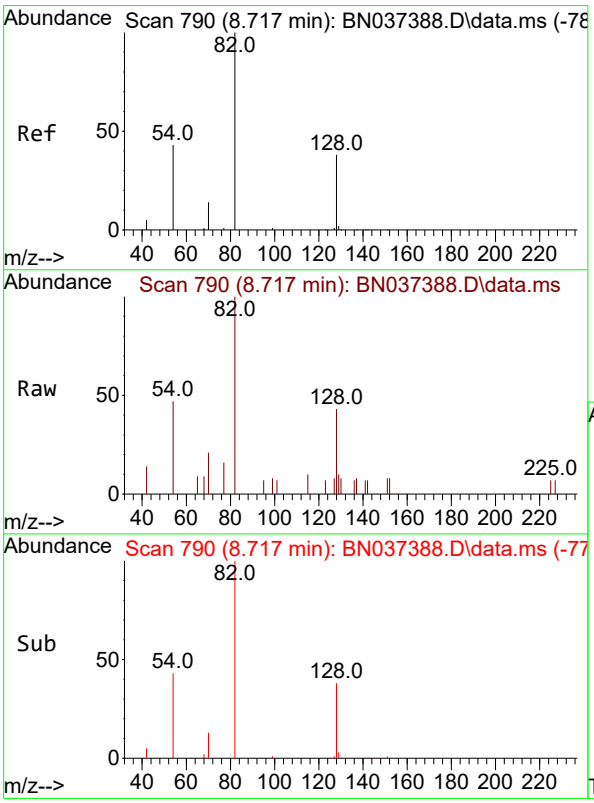
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 4565

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.4	15.6
54	7.0	5.6	8.4
68	5.7	4.6	6.8

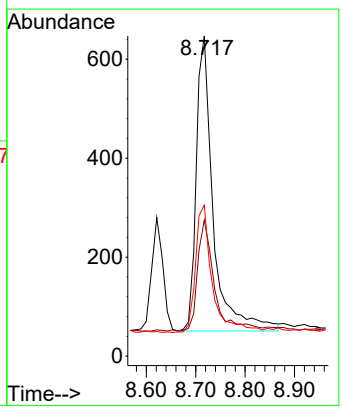


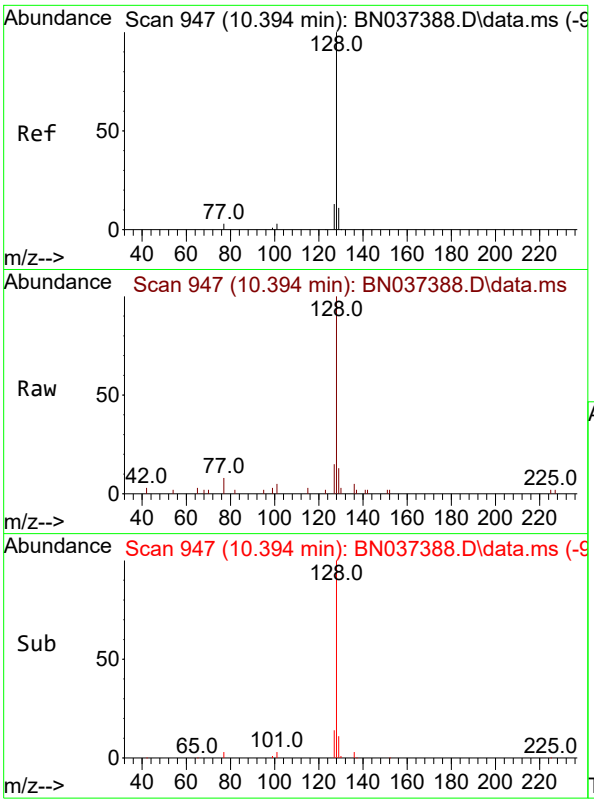


#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion: 82 Resp: 1419

Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	47.1	37.7	56.5



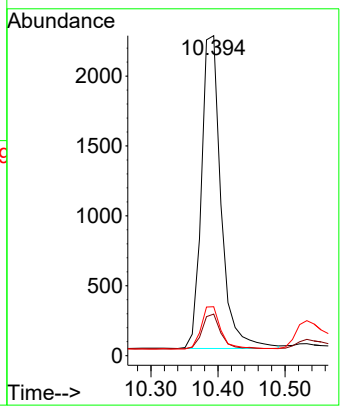


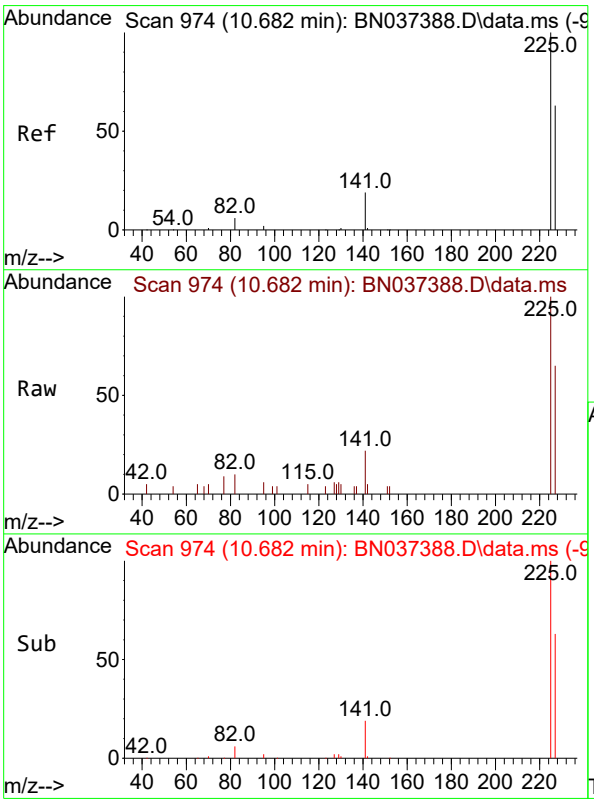
#9
Naphthalene
Concen: 0.388 ng
RT: 10.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 4559

Ion	Ratio	Lower	Upper
128	100		
129	13.0	10.4	15.6
127	15.3	12.2	18.4

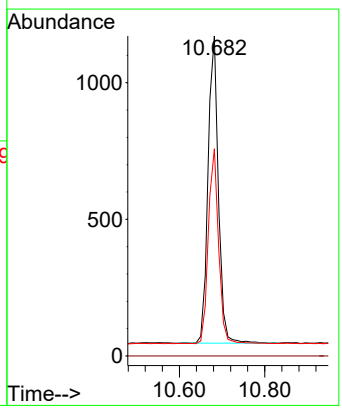


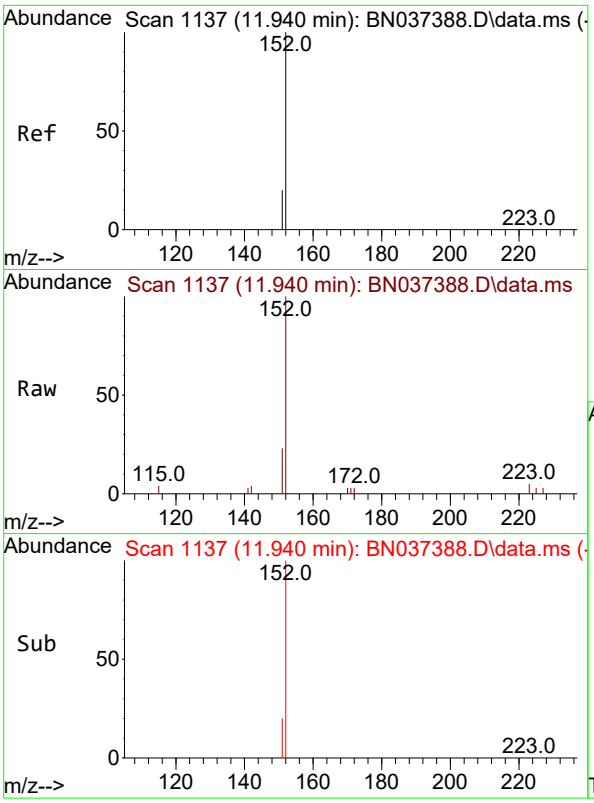


#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:225 Resp: 1887

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.4	49.9	74.9



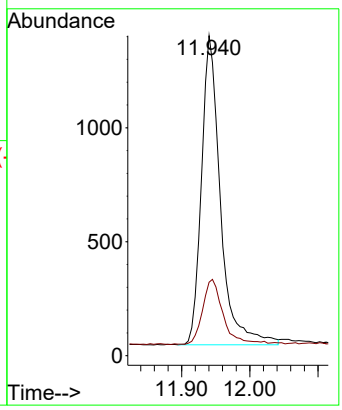


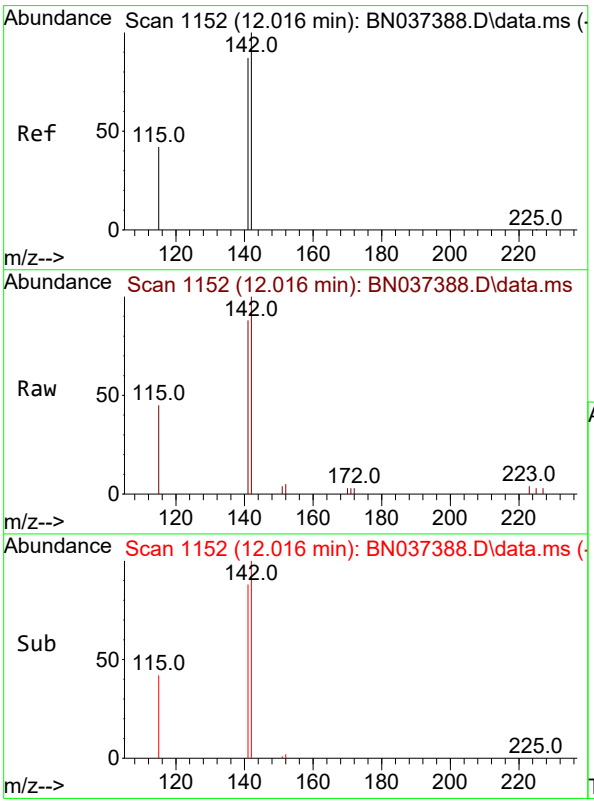
#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 11.940 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2629

Ion	Ratio	Lower	Upper
152	100		
151	23.0	18.4	27.6

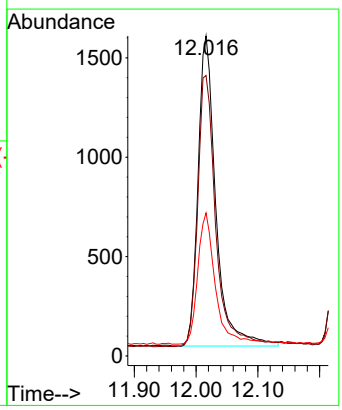


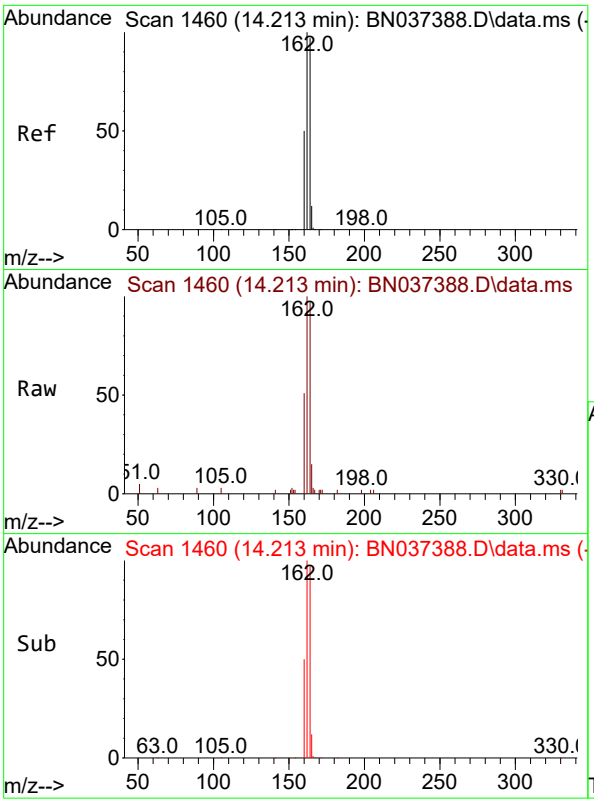


#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:142 Resp: 3122

Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.1	105.1
115	44.7	35.8	53.6



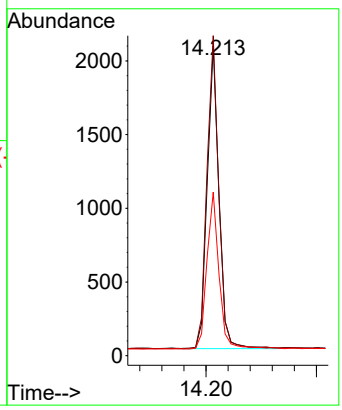


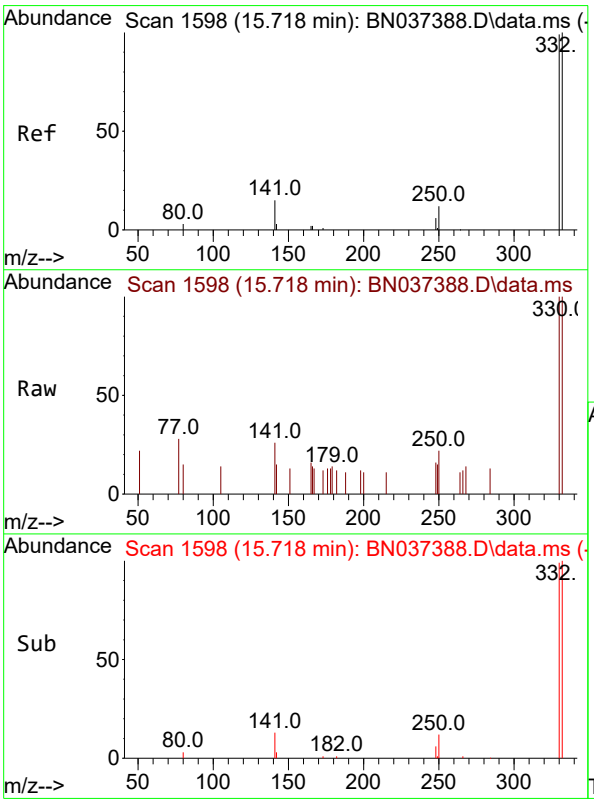
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3048

Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.6	123.8
160	52.7	42.2	63.2

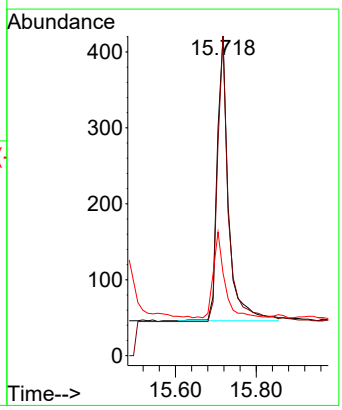


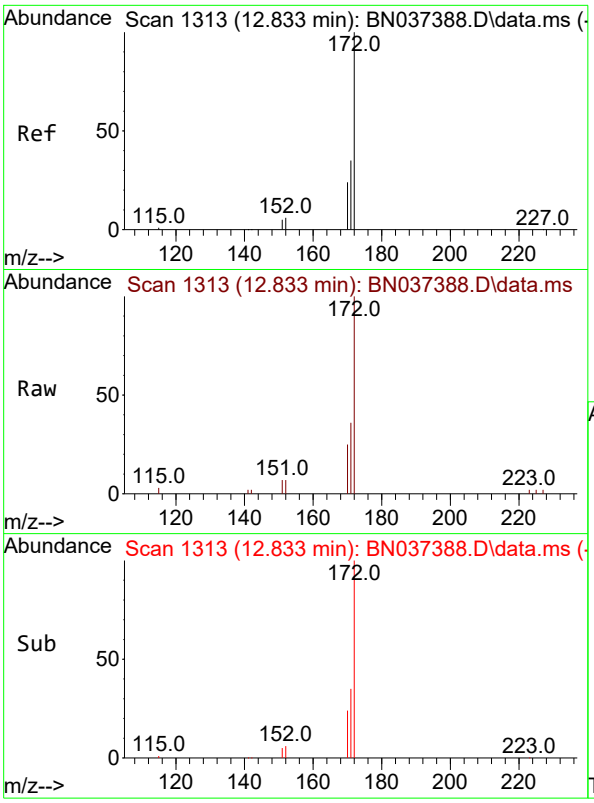


#14
2,4,6-Tribromophenol
Concen: 0.408 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:330 Resp: 729

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.8	116.8
141	30.0	24.0	36.0



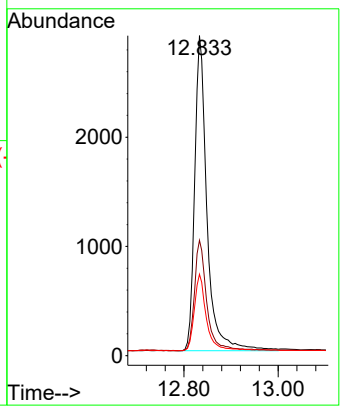


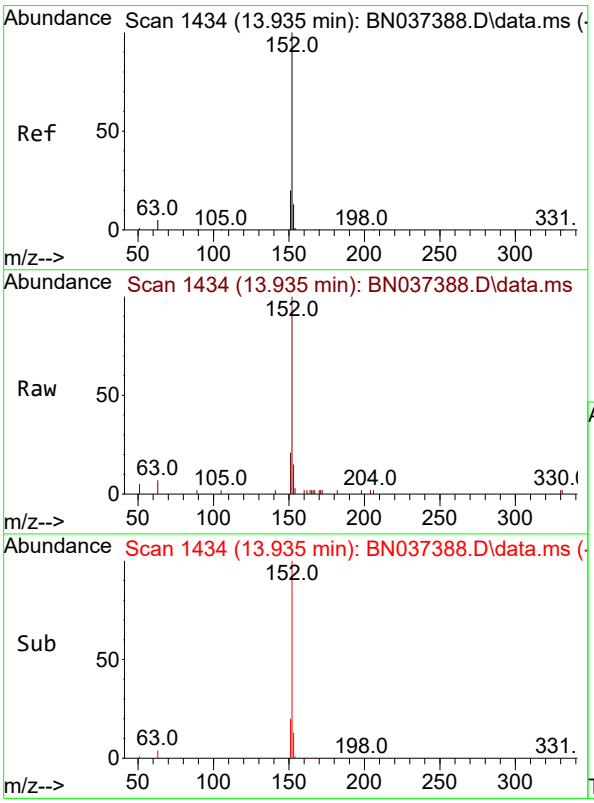
#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.833 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 5253

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	25.4	20.3	30.5

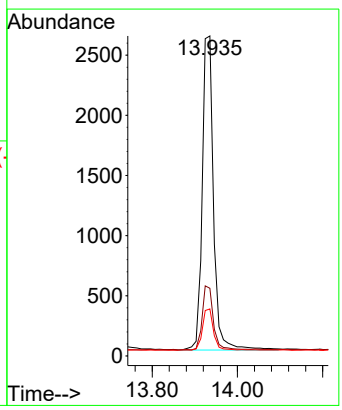


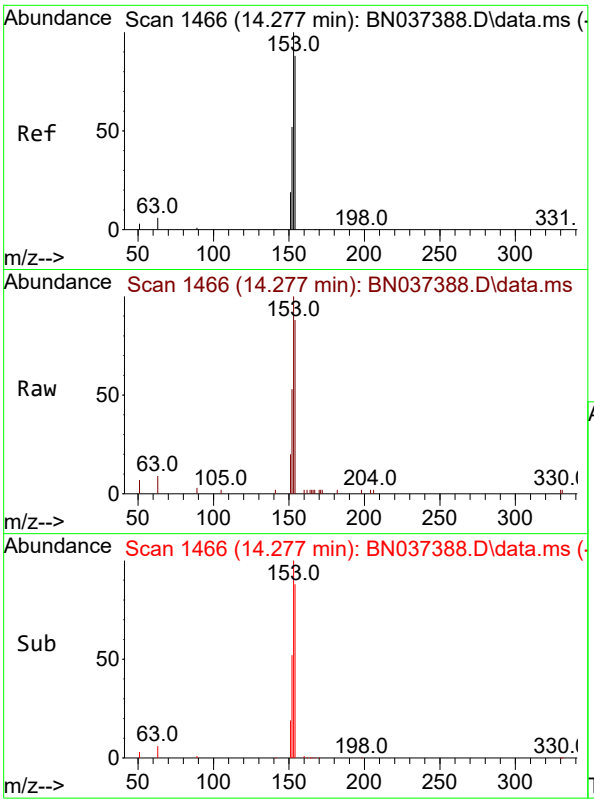


#16
Acenaphthylene
Concen: 0.380 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:152 Resp: 4804

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.6
153	12.9	10.3	15.5



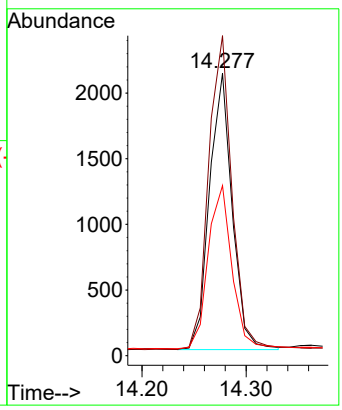


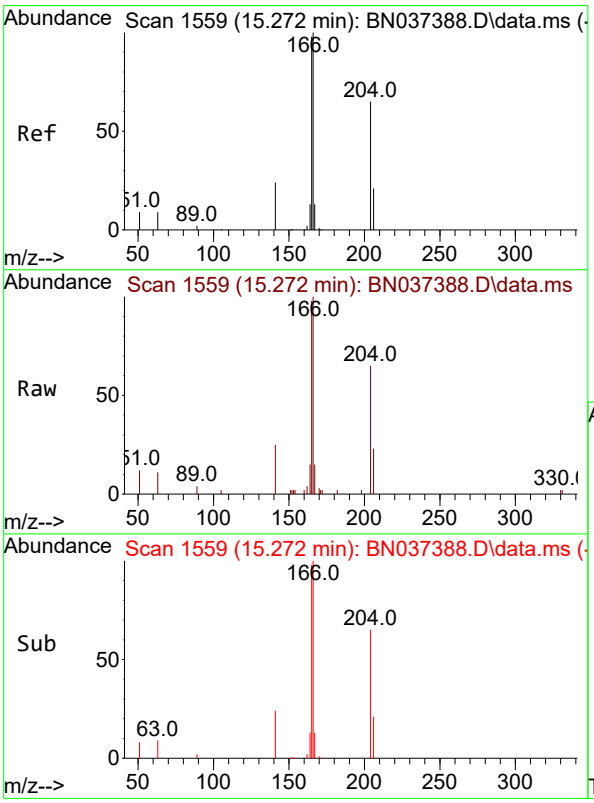
#17
Acenaphthene
Concen: 0.386 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 3185

Ion	Ratio	Lower	Upper
154	100		
153	118.2	94.6	141.8
152	62.7	50.2	75.2

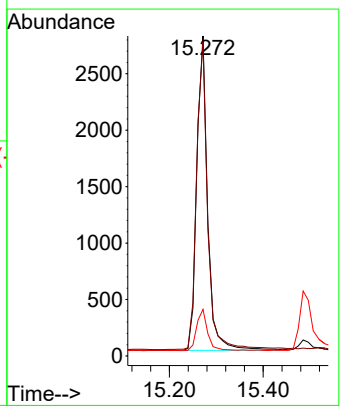


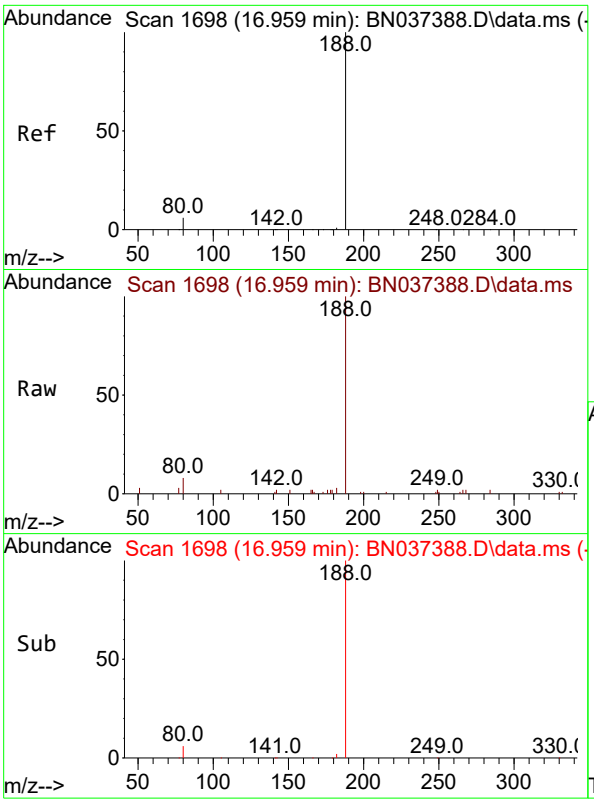


#18
Fluorene
Concen: 0.386 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:166 Resp: 4498

Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.4	119.2
167	13.2	10.6	15.8



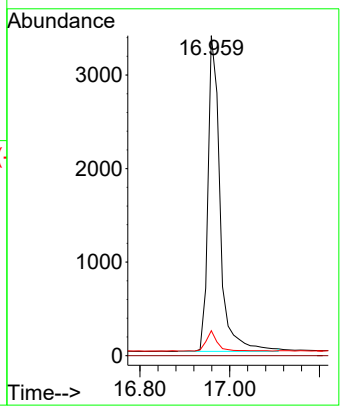


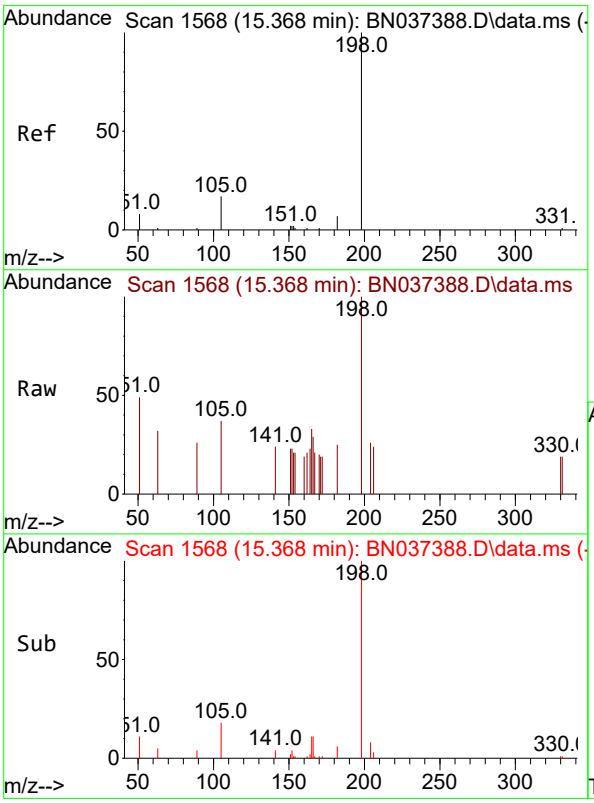
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 6284

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.8	6.2	9.4

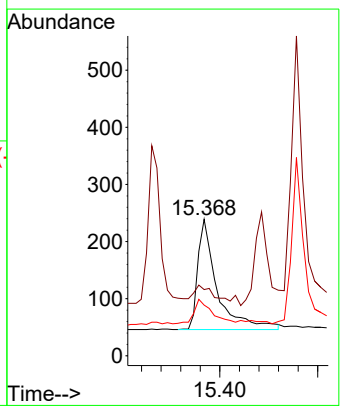


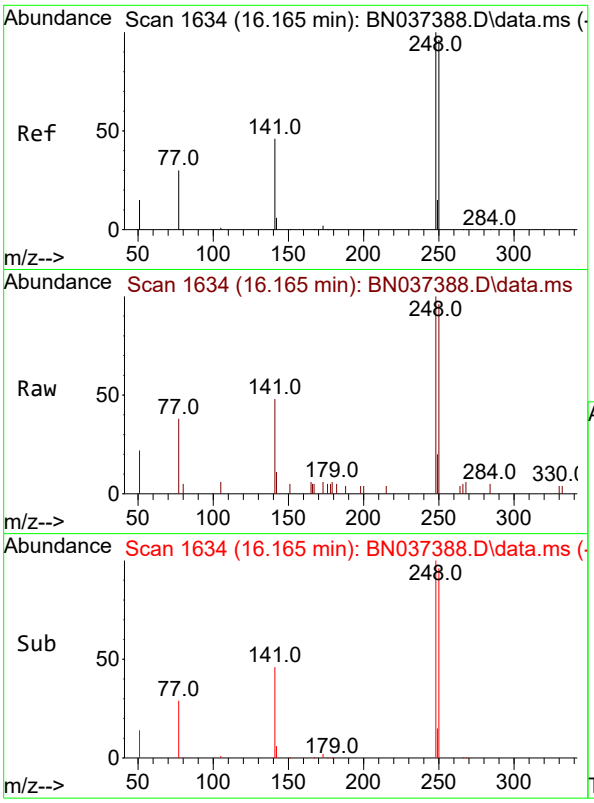


#20
4,6-Dinitro-2-methylphenol
Concen: 0.331 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:198 Resp: 535

Ion	Ratio	Lower	Upper
198	100		
51	48.5	38.8	58.2
105	37.2	29.8	44.6



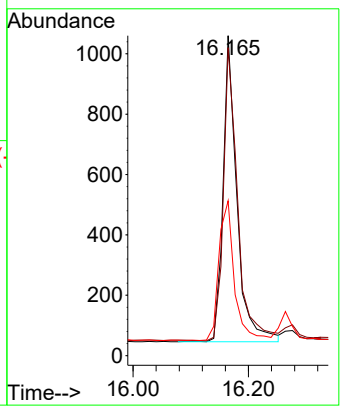


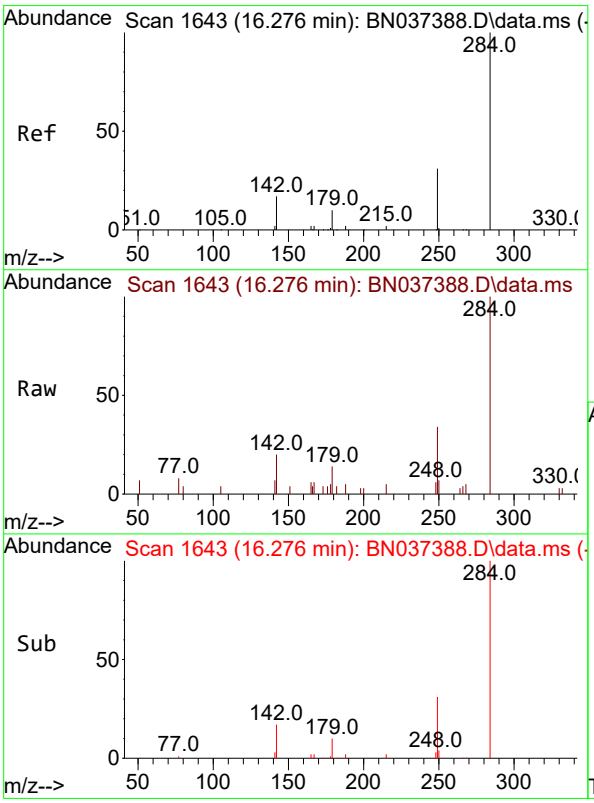
#21
4-Bromophenyl-phenylether
Concen: 0.382 ng
RT: 16.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1694

Ion	Ratio	Lower	Upper
248	100		
250	96.2	77.0	115.4
141	48.4	38.7	58.1

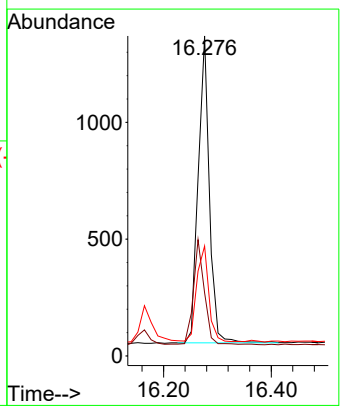


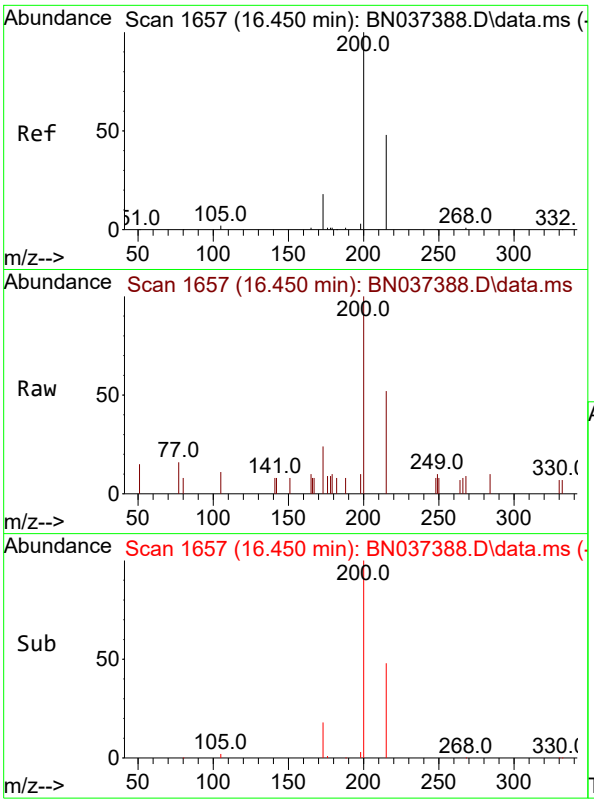


#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:284 Resp: 1899

Ion	Ratio	Lower	Upper
284	100		
142	34.0	27.2	40.8
249	33.4	26.7	40.1



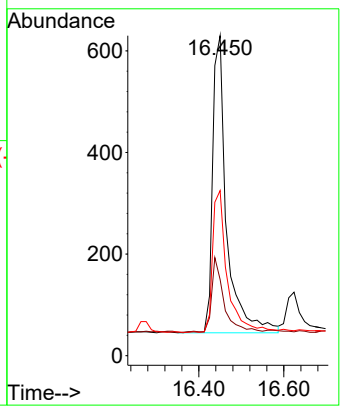


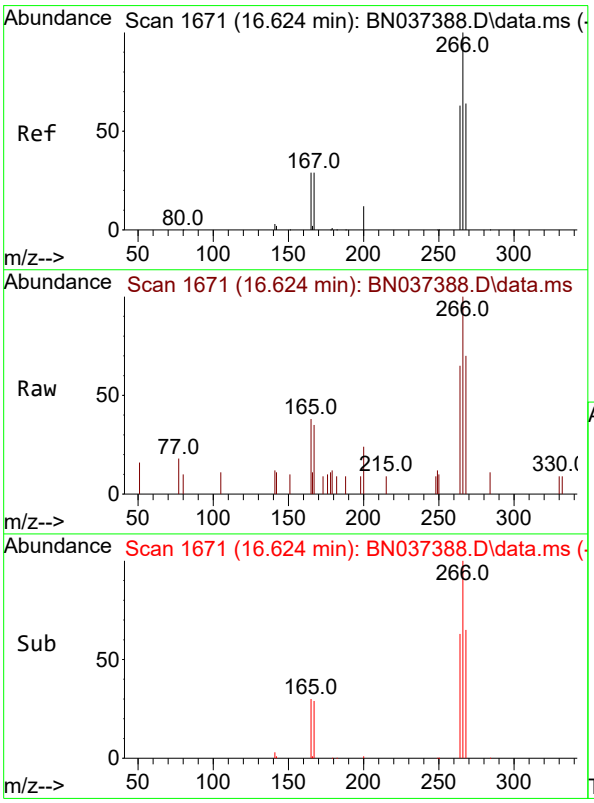
#23
Atrazine
Concen: 0.380 ng
RT: 16.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1336

Ion	Ratio	Lower	Upper
200	100		
173	23.8	19.0	28.6
215	51.6	41.3	61.9

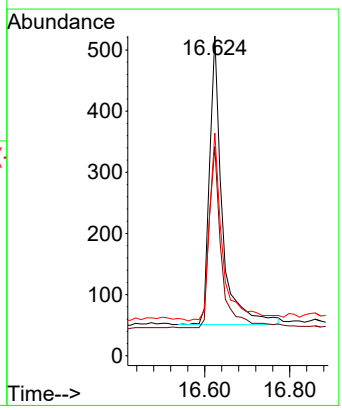


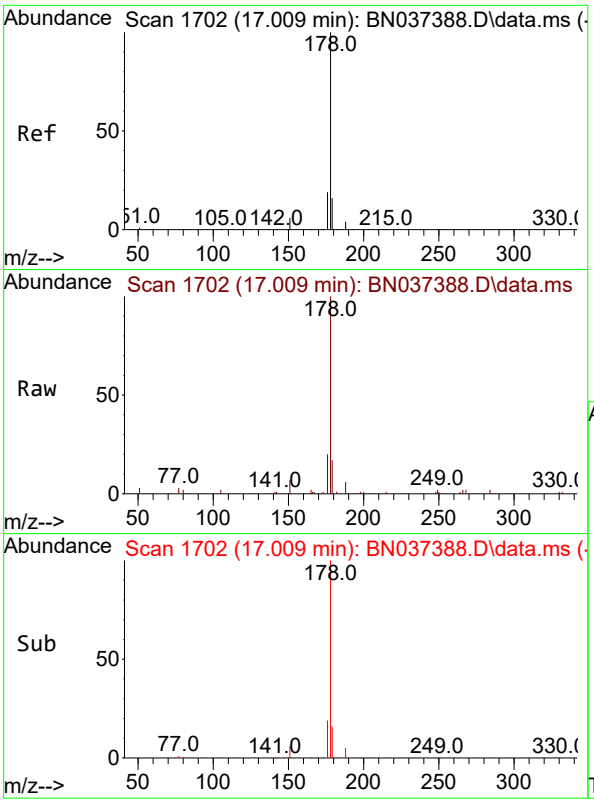


#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:266 Resp: 973

Ion	Ratio	Lower	Upper
266	100		
264	60.4	49.2	73.8
268	67.3	54.2	81.4



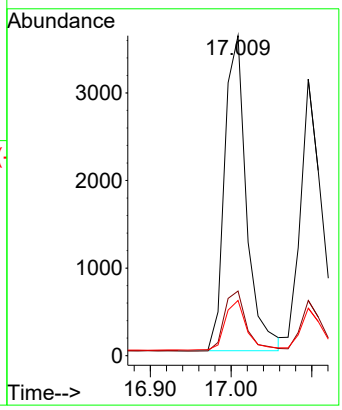


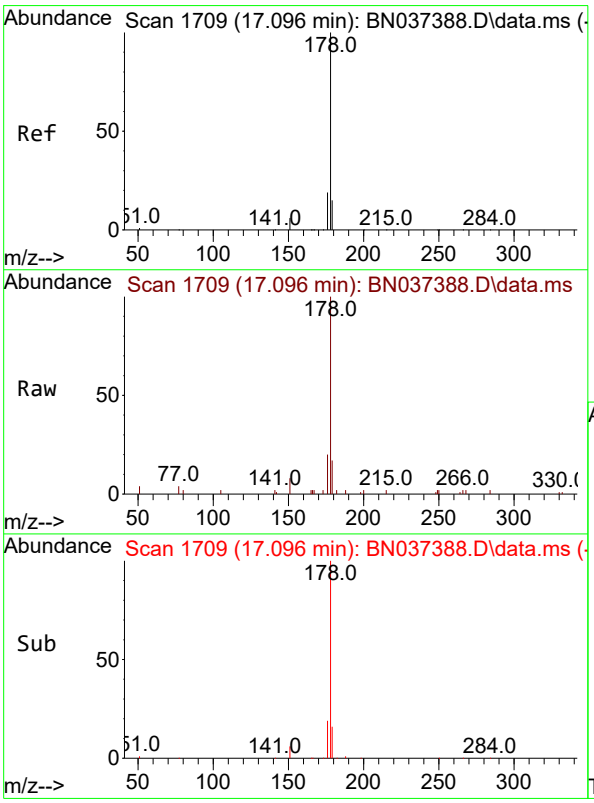
#25
Phenanthrene
Concen: 0.383 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 6787

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	16.0	12.8	19.2

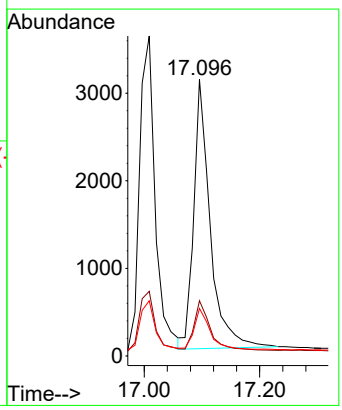


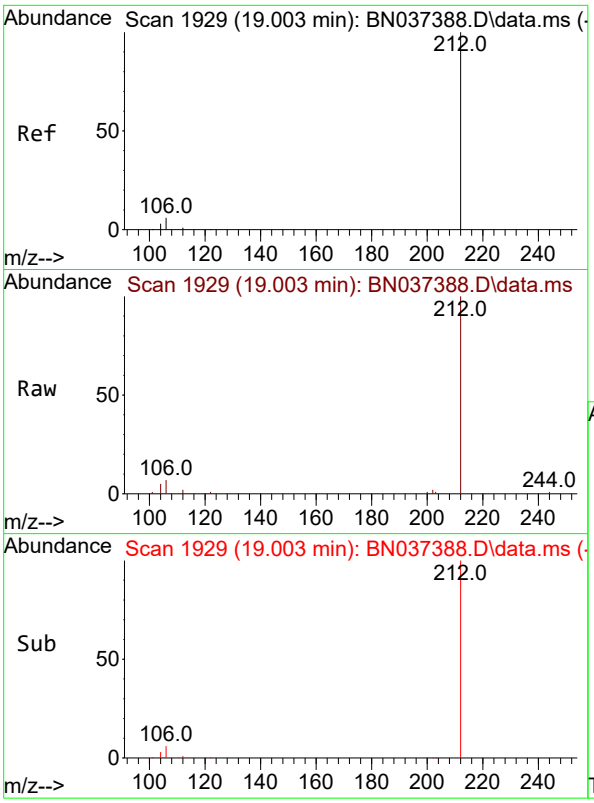


#26
Anthracene
Concen: 0.374 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:178 Resp: 6087

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.5	12.4	18.6



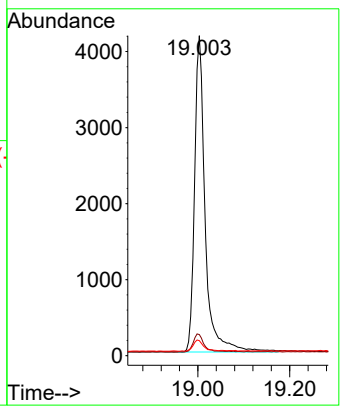


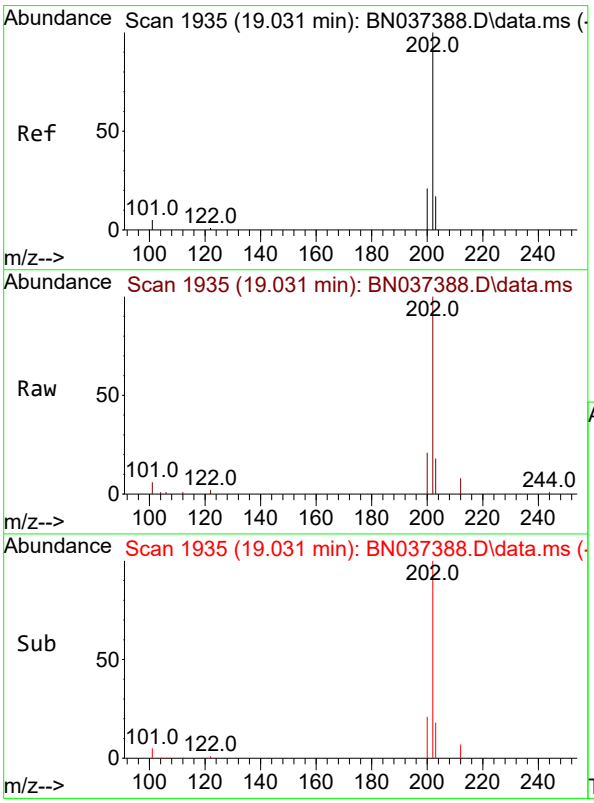
#27
Fluoranthene-d10
Concen: 0.371 ng
RT: 19.003 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 6680

Ion	Ratio	Lower	Upper
212	100		
106	5.6	4.5	6.7
104	3.4	2.7	4.1

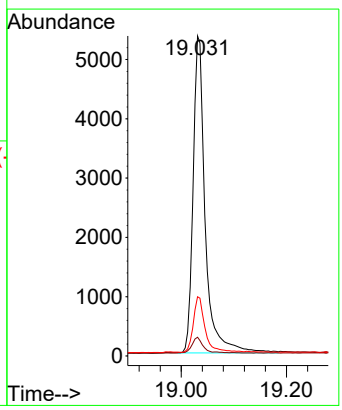


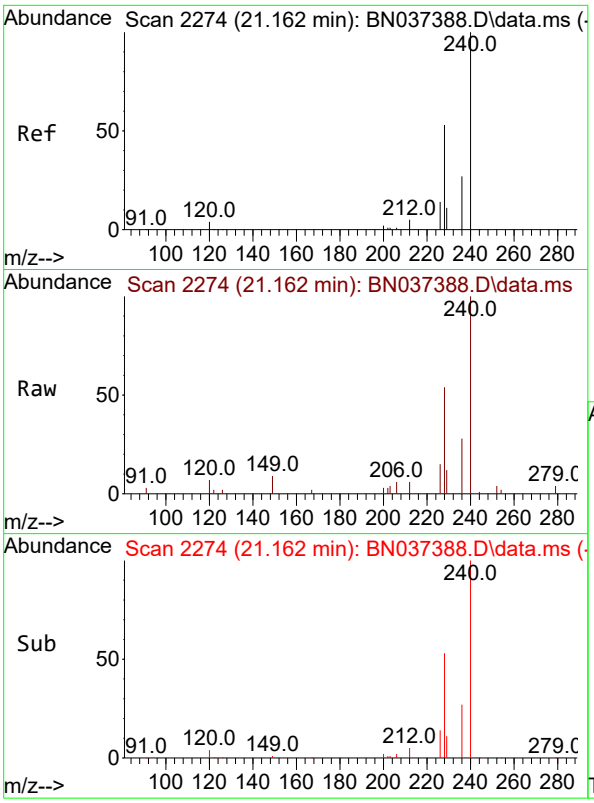


#28
Fluoranthene
Concen: 0.378 ng
RT: 19.031 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:202 Resp: 8557

Ion	Ratio	Lower	Upper
202	100		
101	4.7	3.8	5.6
203	16.9	13.5	20.3



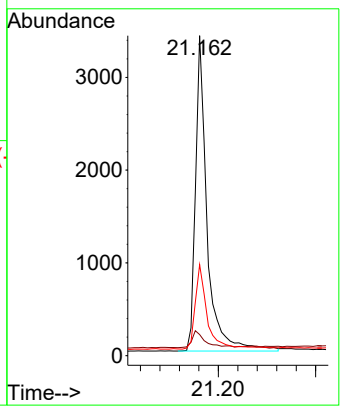


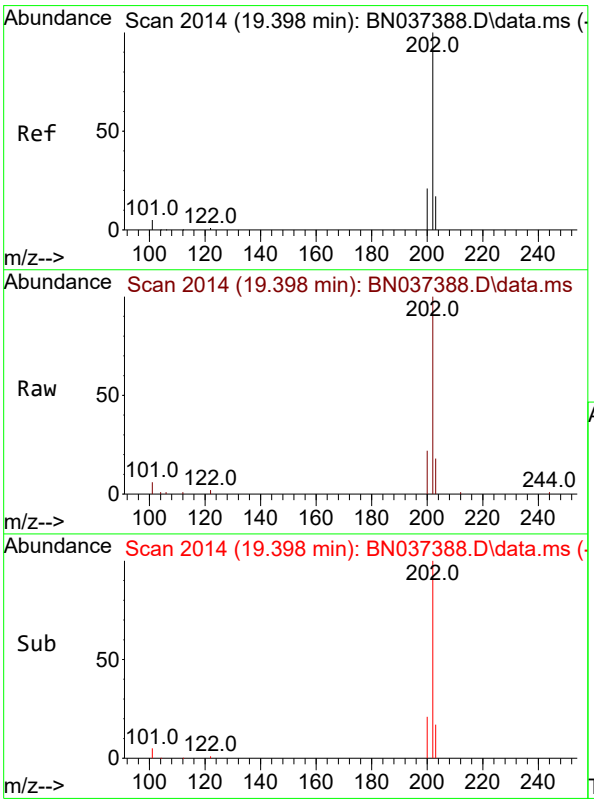
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 5612

Ion	Ratio	Lower	Upper
240	100		
120	6.6	5.3	7.9
236	28.4	22.7	34.1

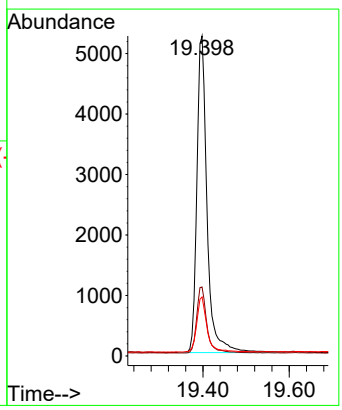


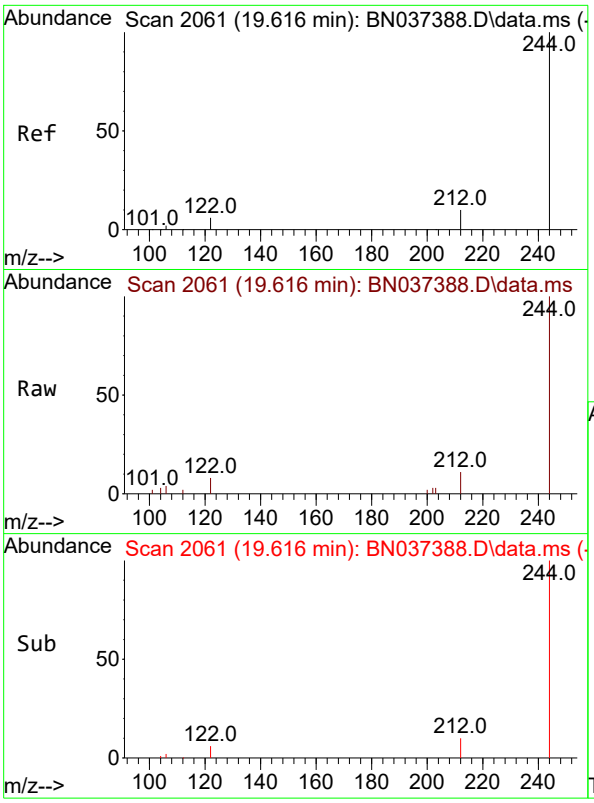


#30
Pyrene
Concen: 0.405 ng
RT: 19.398 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:202 Resp: 8607

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.5	24.7
203	17.7	14.2	21.2



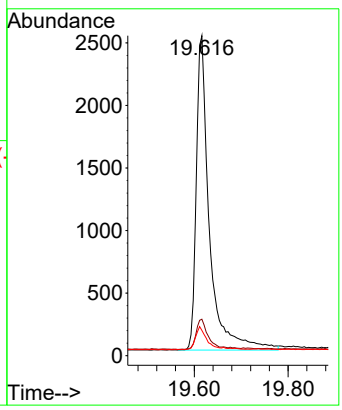


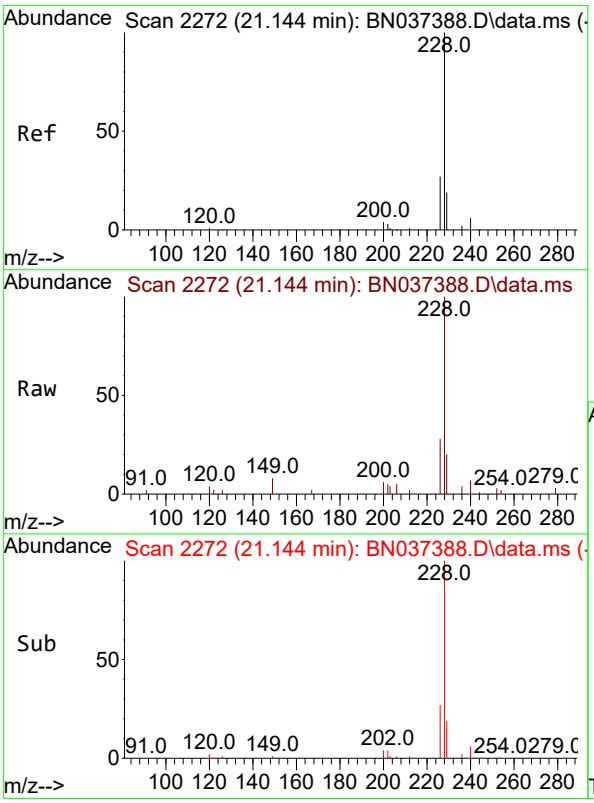
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.616 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 4873

Ion	Ratio	Lower	Upper
244	100		
212	11.4	9.1	13.7
122	7.9	6.3	9.5

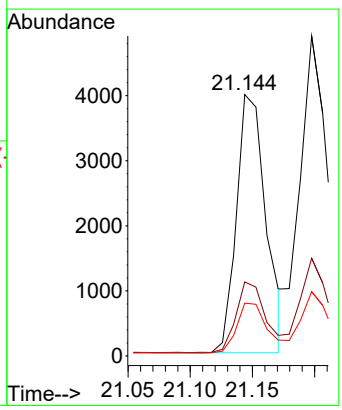


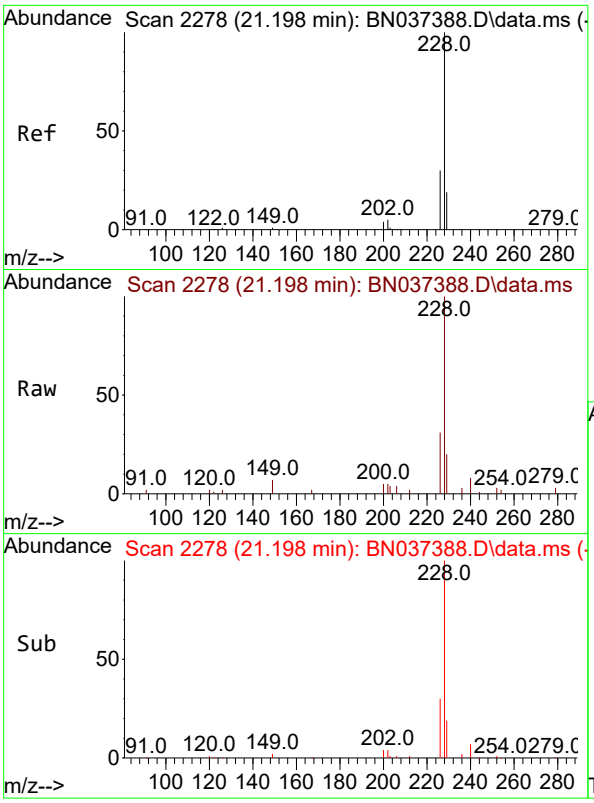


#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:228 Resp: 6549

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	34.0
229	20.2	16.2	24.2



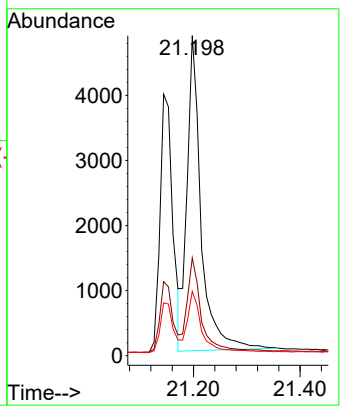


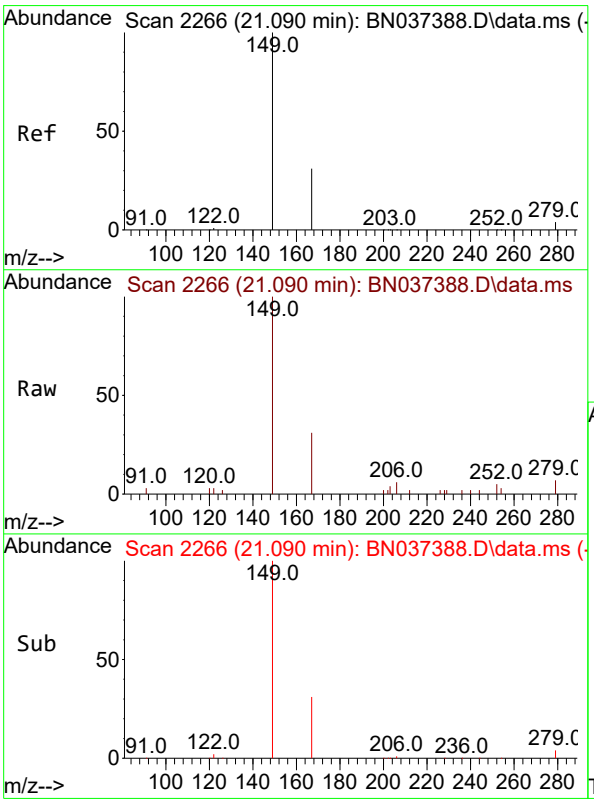
#33
Chrysene
Concen: 0.407 ng
RT: 21.198 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 8883

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	20.1	16.1	24.1

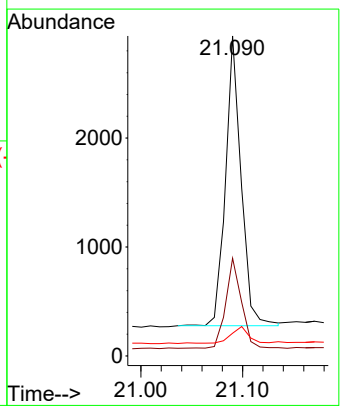


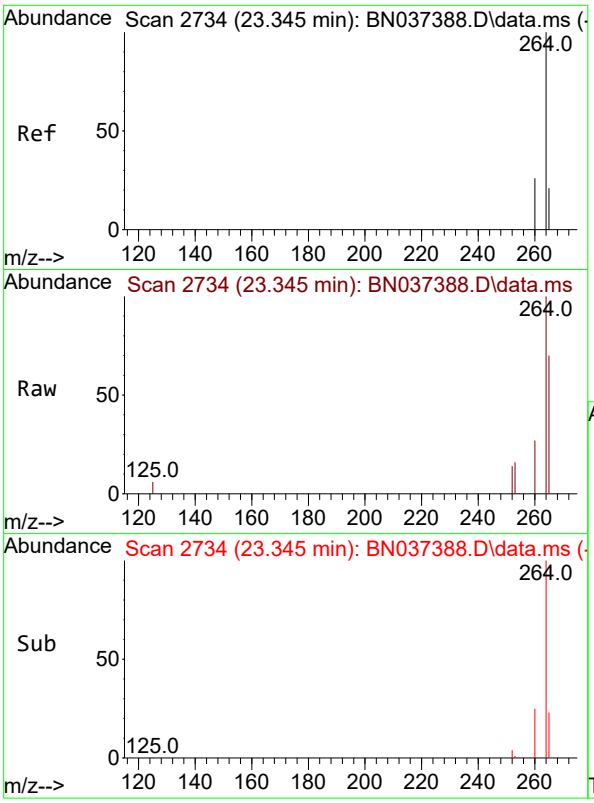


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.405 ng
RT: 21.090 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:149 Resp: 2830

Ion	Ratio	Lower	Upper
149	100		
167	31.0	24.8	37.2
279	6.3	5.0	7.6



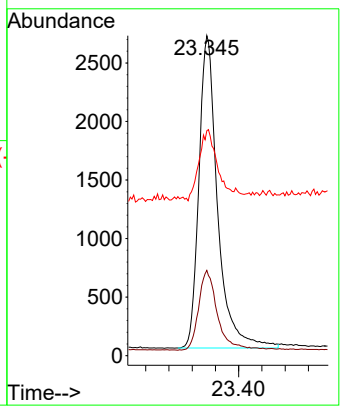


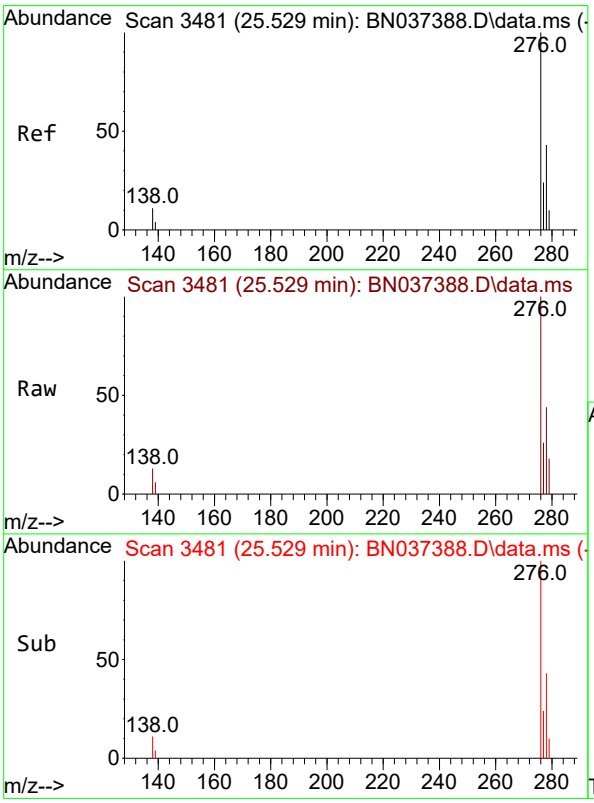
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 5950

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.4	32.0
265	70.3	56.2	84.4

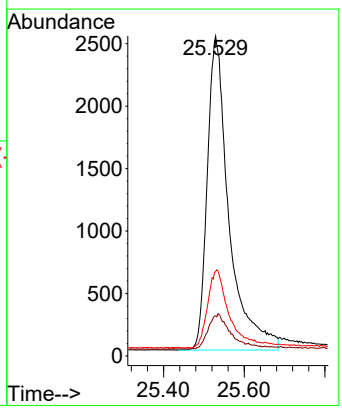


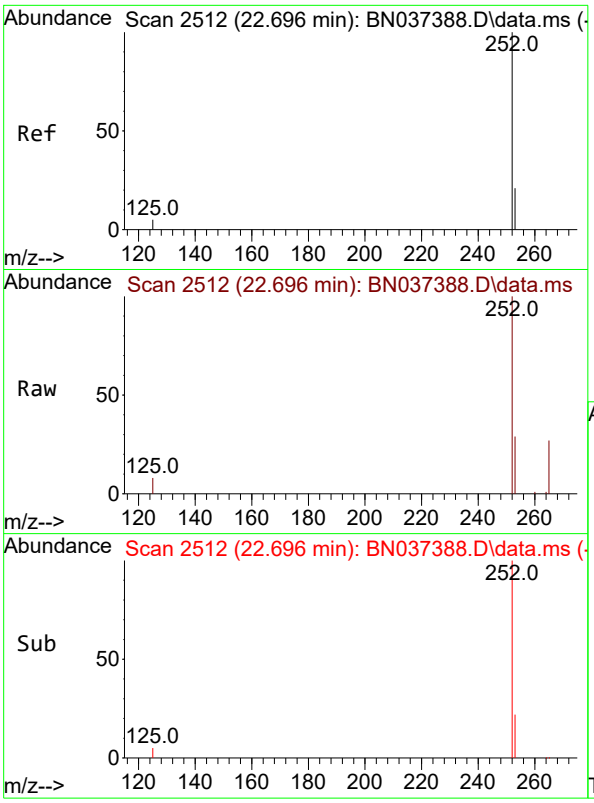


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.529 min Scan# 3481
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:276 Resp: 9382

Ion	Ratio	Lower	Upper
276	100		
138	10.6	8.5	12.7
277	24.6	19.7	29.5



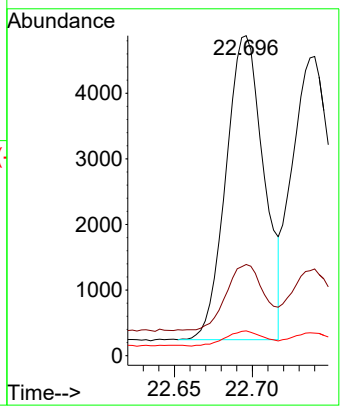


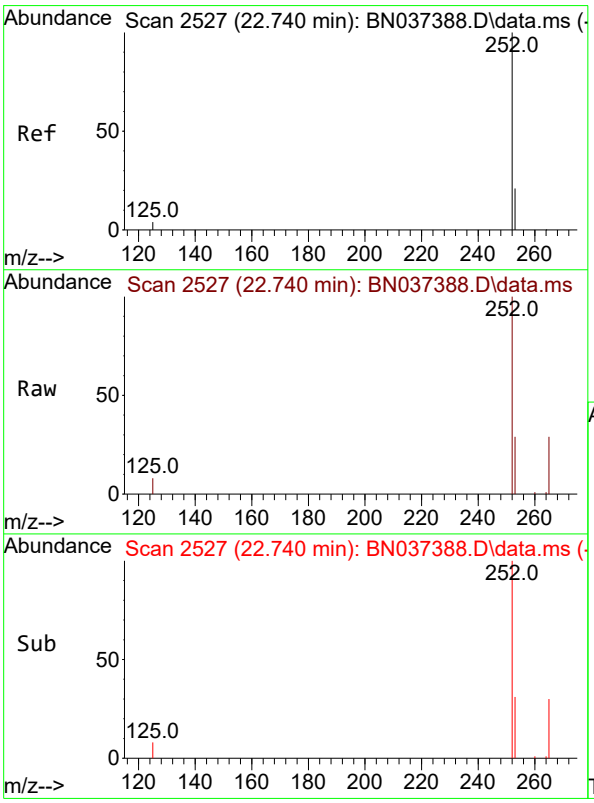
#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.696 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 7840

Ion	Ratio	Lower	Upper
252	100		
253	28.5	22.8	34.2
125	7.8	6.2	9.4

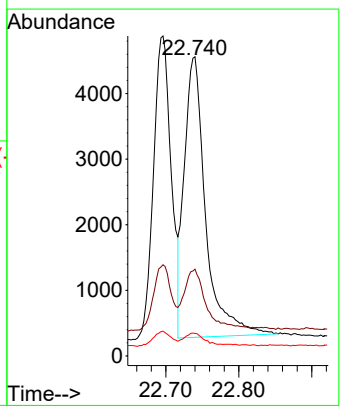


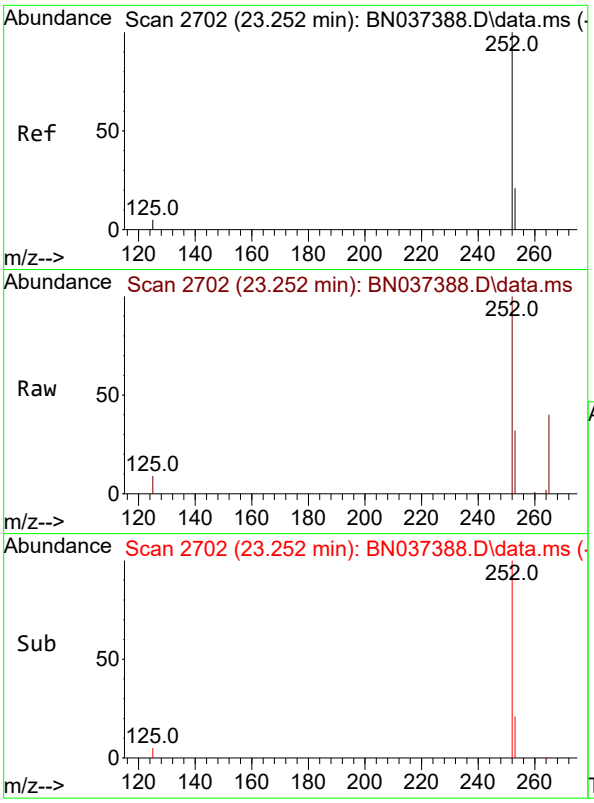


#38
Benzo(k)fluoranthene
Concen: 0.388 ng
RT: 22.740 min Scan# 2527
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:252 Resp: 8696

Ion	Ratio	Lower	Upper
252	100		
253	29.0	23.2	34.8
125	7.5	6.0	9.0



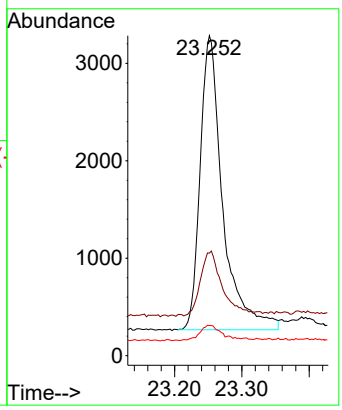


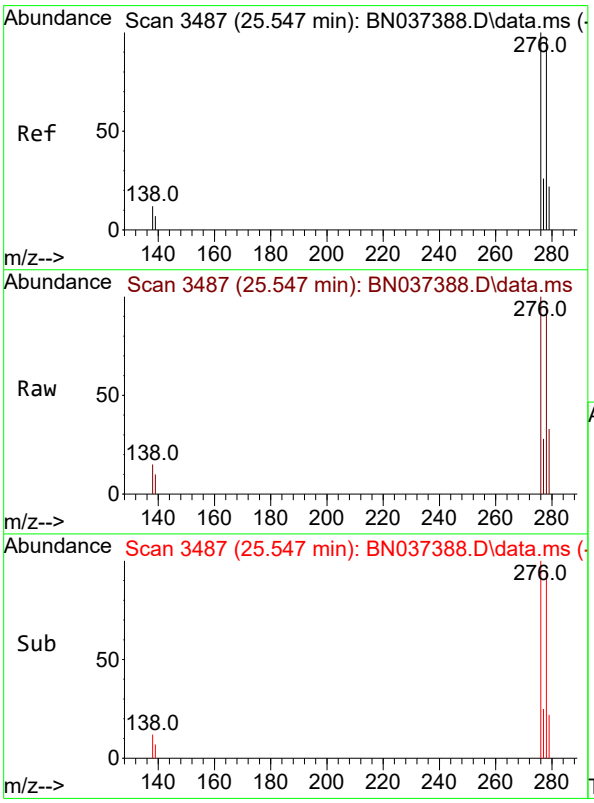
#39
Benzo(a)pyrene
Concen: 0.377 ng
RT: 23.252 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 7038

Ion	Ratio	Lower	Upper
252	100		
253	32.0	25.6	38.4
125	9.4	7.5	11.3

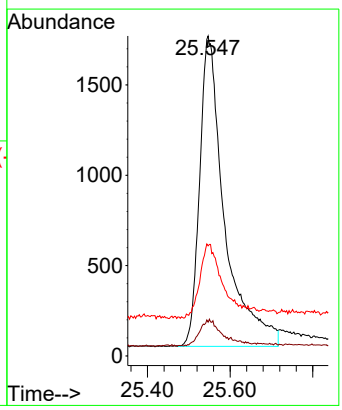


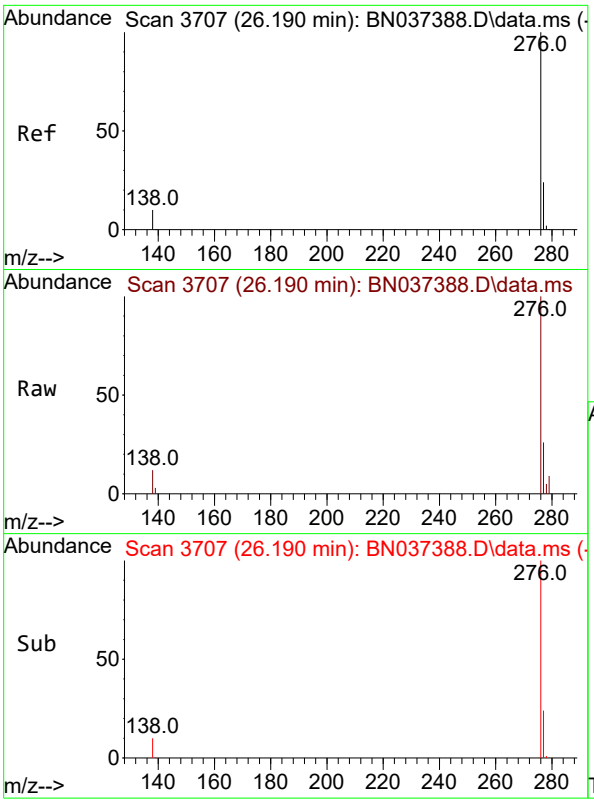


#40
Dibenzo(a,h)anthracene
Concen: 0.374 ng
RT: 25.547 min Scan# 3487
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:278 Resp: 7205

Ion	Ratio	Lower	Upper
278	100		
139	10.6	8.5	12.7
279	34.4	27.5	41.3



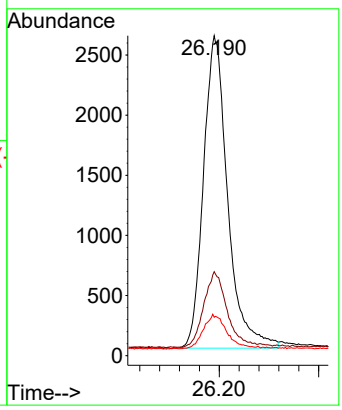


#41
Benzo(g,h,i)perylene
Concen: 0.382 ng
RT: 26.190 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 8788

Ion	Ratio	Lower	Upper
276	100		
277	26.2	21.0	31.4
138	12.0	9.6	14.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037389.D
Acq On : 26 Jun 2025 12:29
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 26 14:44:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	1666	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	3597	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	2328	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	4756	0.400	ng		0.00
29) Chrysene-d12	21.162	240	4408	0.400	ng		0.00
35) Perylene-d12	23.345	264	4628	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	2321	0.723	ng		0.00
5) Phenol-d6	6.744	99	2457	0.738	ng		0.00
8) Nitrobenzene-d5	8.717	82	2126	0.735	ng		0.00
11) 2-Methylnaphthalene-d10	11.940	152	4083	0.734	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	1046	0.766	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	7691	0.765	ng		0.00
27) Fluoranthene-d10	19.003	212	9775	0.717	ng		0.00
31) Terphenyl-d14	19.612	244	7017	0.747	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	1220	0.817	ng		97
3) n-Nitrosodimethylamine	3.415	42	1219	0.781	ng	#	98
6) bis(2-Chloroethyl)ether	6.997	93	2313	0.781	ng		99
9) Naphthalene	10.383	128	6991	0.755	ng		98
10) Hexachlorobutadiene	10.682	225	2877	0.783	ng	#	99
12) 2-Methylnaphthalene	12.011	142	4762	0.747	ng		97
16) Acenaphthylene	13.925	152	7160	0.742	ng		99
17) Acenaphthene	14.277	154	4696	0.745	ng		100
18) Fluorene	15.272	166	6613	0.743	ng		99
20) 4,6-Dinitro-2-methylph...	15.368	198	826	0.676	ng	#	79
21) 4-Bromophenyl-phenylether	16.165	248	2555	0.762	ng		96
22) Hexachlorobenzene	16.276	284	2768	0.767	ng		99
23) Atrazine	16.438	200	1939	0.730	ng		97
24) Pentachlorophenol	16.624	266	1406	0.722	ng		96
25) Phenanthrene	17.009	178	9870	0.737	ng		99
26) Anthracene	17.096	178	9124	0.741	ng		99
28) Fluoranthene	19.031	202	12556	0.734	ng		100
30) Pyrene	19.398	202	12616	0.756	ng		100
32) Benzo(a)anthracene	21.144	228	10155	0.733	ng		100
33) Chrysene	21.198	228	13144	0.767	ng		100
34) Bis(2-ethylhexyl)phtha...	21.090	149	4107	0.749	ng		99
36) Indeno(1,2,3-cd)pyrene	25.529	276	14993	0.768	ng		98
37) Benzo(b)fluoranthene	22.693	252	12221	0.749	ng		96
38) Benzo(k)fluoranthene	22.737	252	13232	0.759	ng		96
39) Benzo(a)pyrene	23.252	252	10863	0.748	ng		95
40) Dibenzo(a,h)anthracene	25.547	278	11379	0.759	ng		94
41) Benzo(g,h,i)perylene	26.187	276	13535	0.756	ng		98

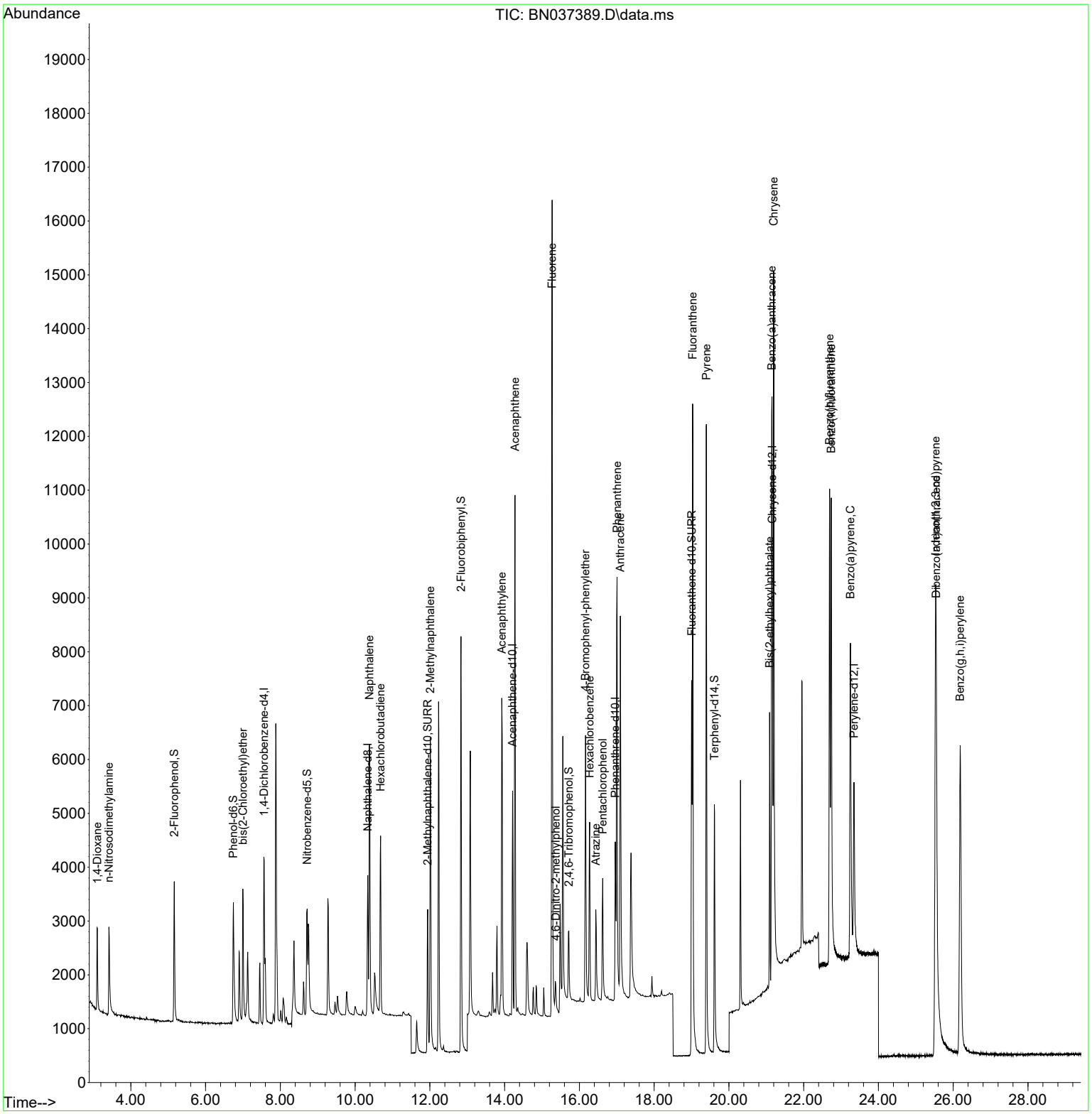
(#) = qualifier out of range (m) = manual integration (+) = signals summed

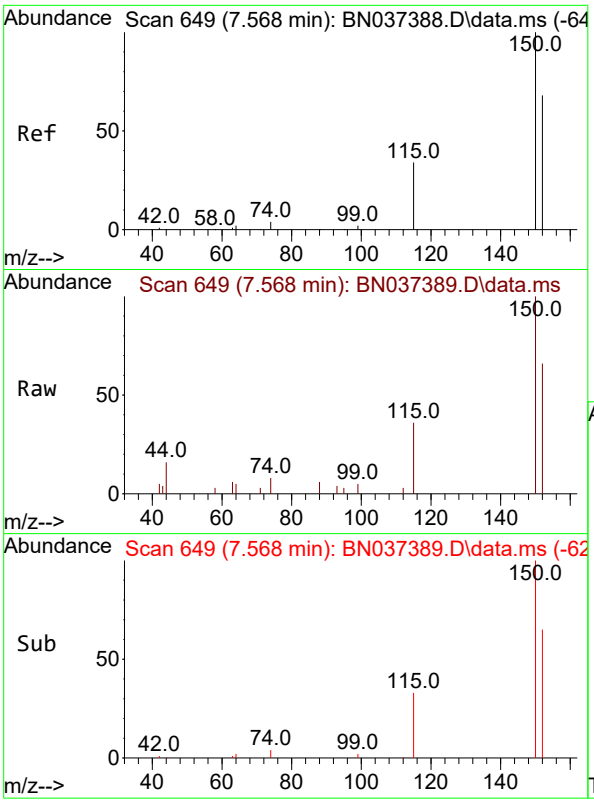
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037389.D
Acq On : 26 Jun 2025 12:29
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 26 14:44:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration



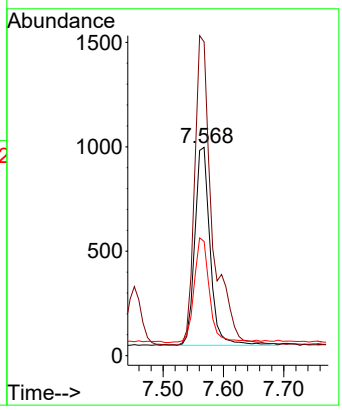


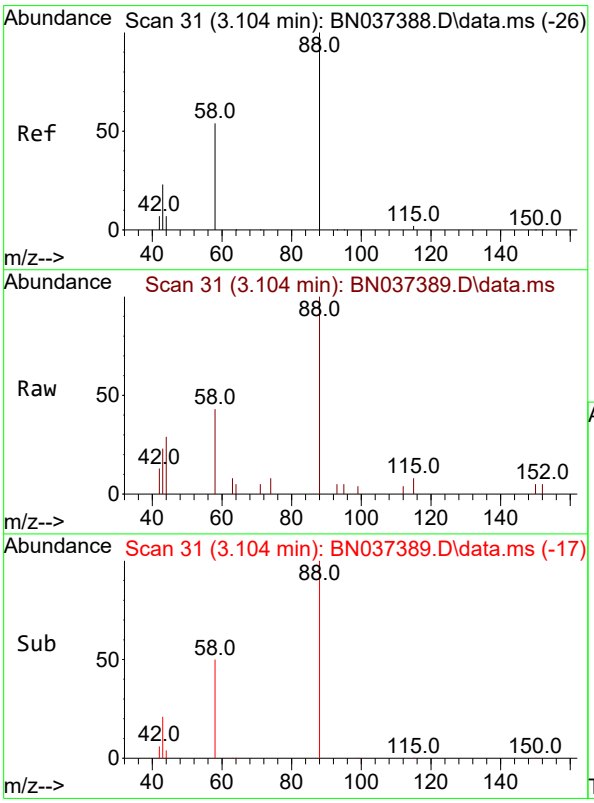
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 1666

Ion	Ratio	Lower	Upper
152	100		
150	150.7	116.2	174.2
115	54.9	42.9	64.3

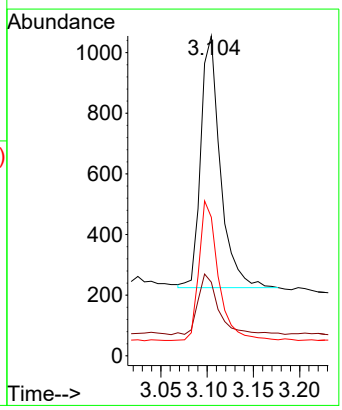


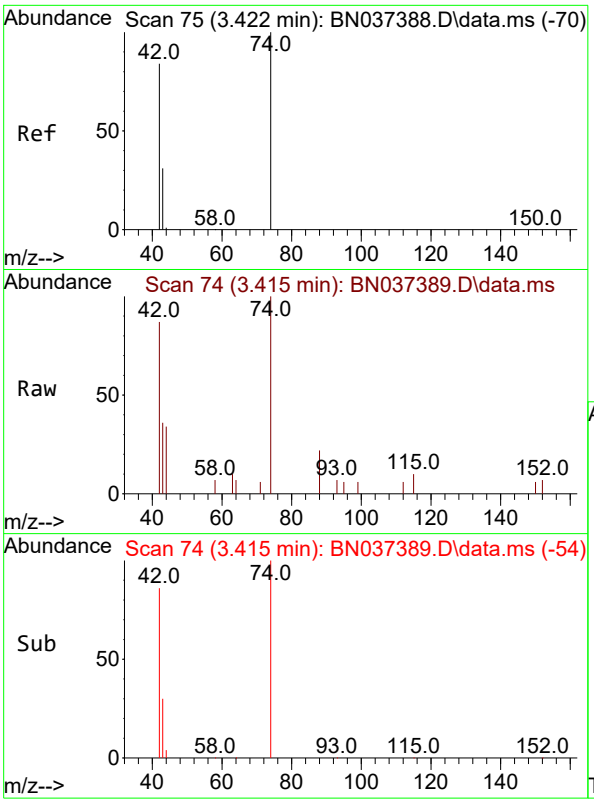


#2
1,4-Dioxane
Concen: 0.817 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion: 88 Resp: 1220

Ion	Ratio	Lower	Upper
88	100		
43	25.2	21.6	32.4
58	54.9	45.9	68.9



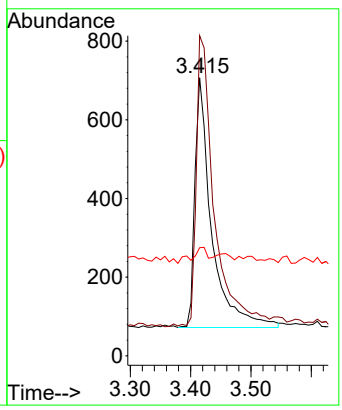


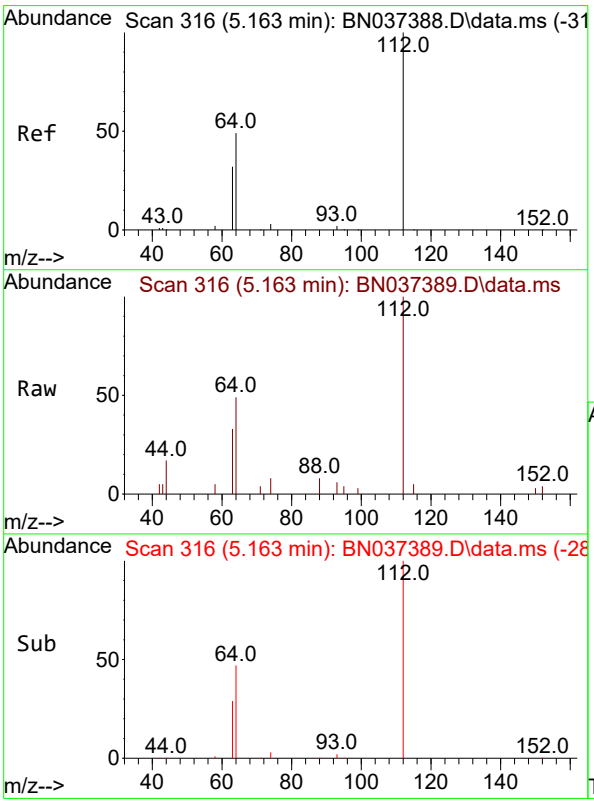
#3
n-Nitrosodimethylamine
Concen: 0.781 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1219

Ion	Ratio	Lower	Upper
42	100		
74	123.9	97.8	146.8
44	6.2	8.7	13.1#

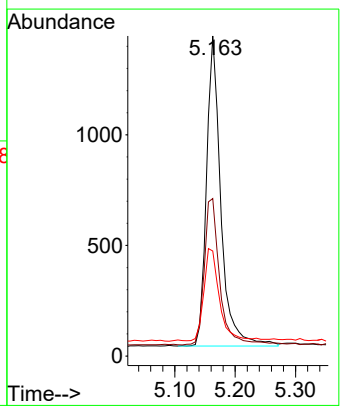


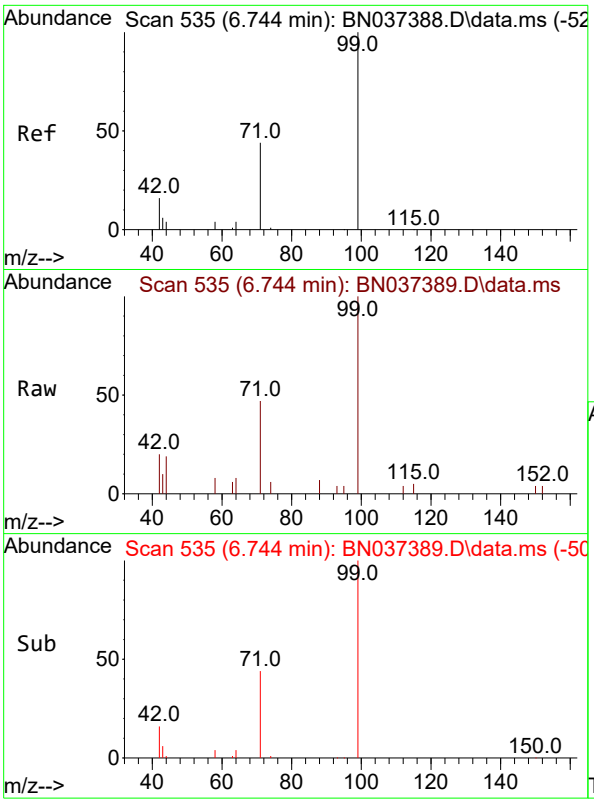


#4
2-Fluorophenol
Concen: 0.723 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:112 Resp: 2321

Ion	Ratio	Lower	Upper
112	100		
64	51.5	40.3	60.5
63	32.2	26.1	39.1



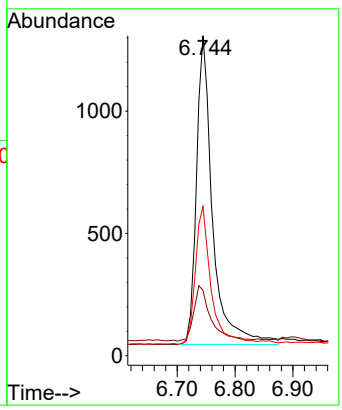


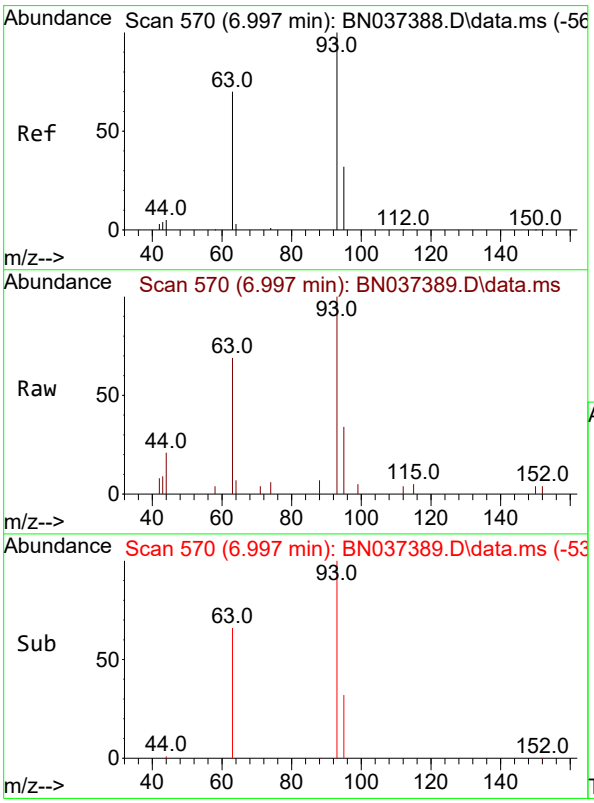
#5
Phenol-d6
Concen: 0.738 ng
RT: 6.744 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 2457

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.6	23.4
71	43.0	35.8	53.8

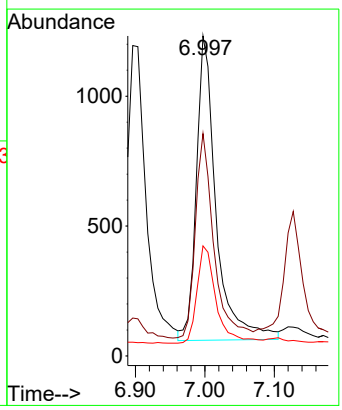


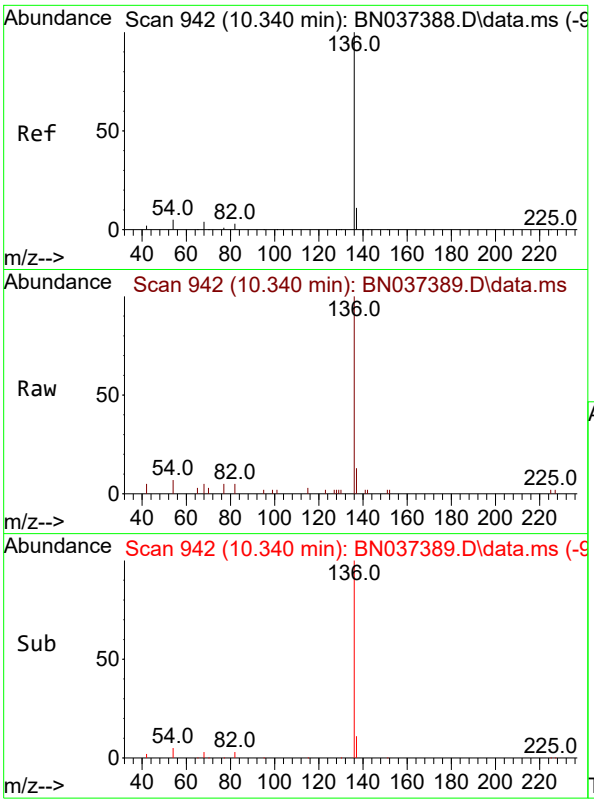


#6
bis(2-Chloroethyl)ether
Concen: 0.781 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion: 93 Resp: 2313

Ion	Ratio	Lower	Upper
93	100		
63	62.6	49.6	74.4
95	31.1	23.9	35.9



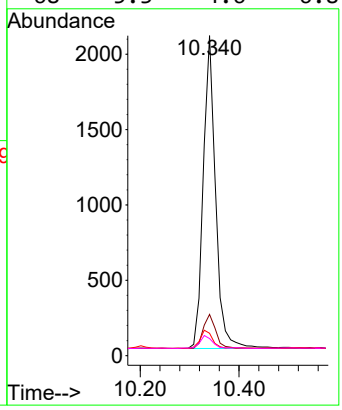


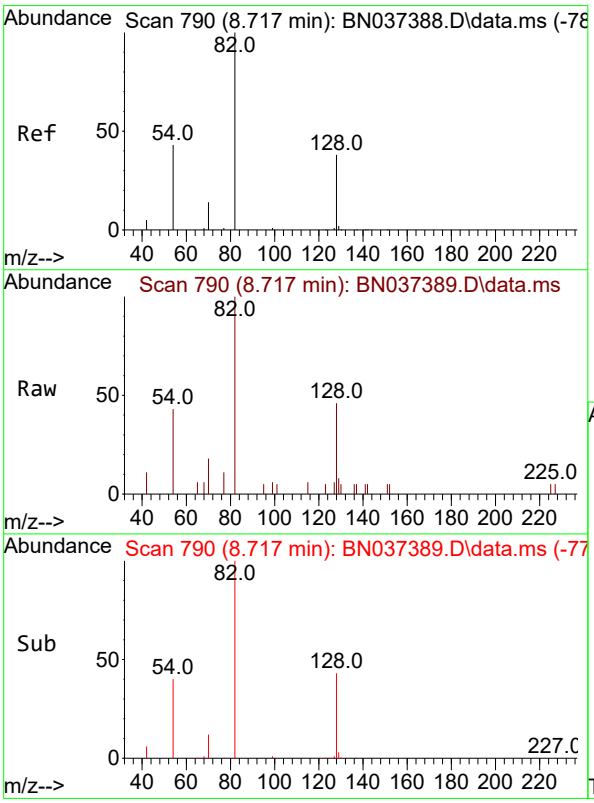
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 3597

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	7.0	5.6	8.4
68	5.3	4.6	6.8

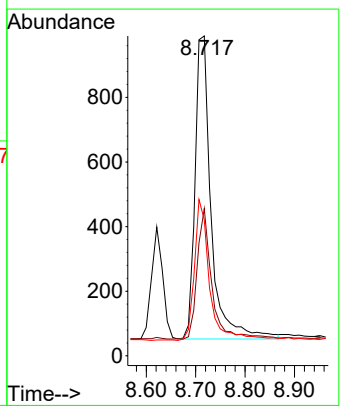


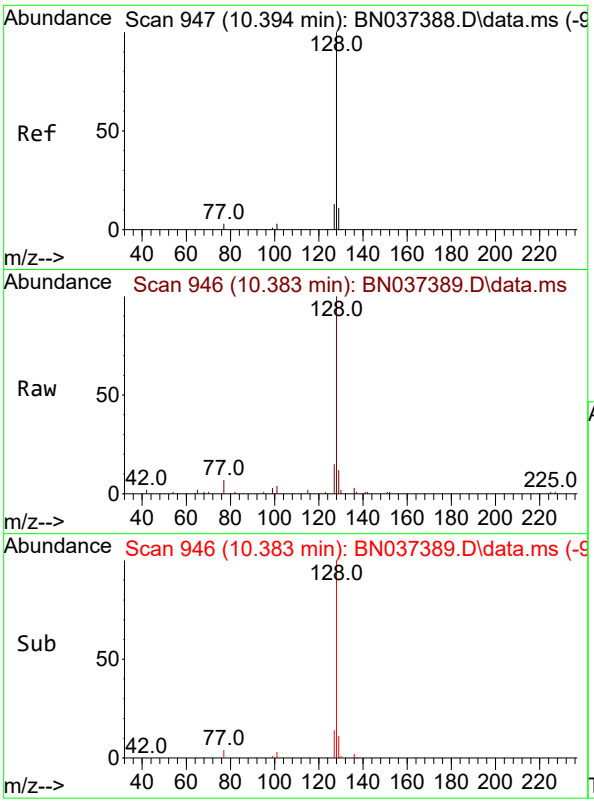


#8
Nitrobenzene-d5
Concen: 0.735 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion: 82 Resp: 2126

Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.0	51.0
54	42.5	37.7	56.5



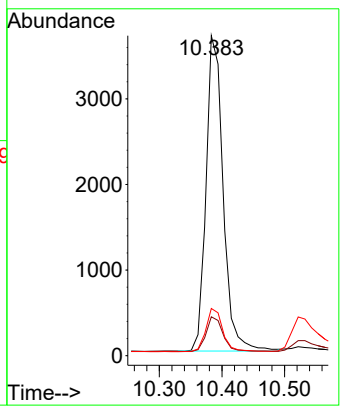


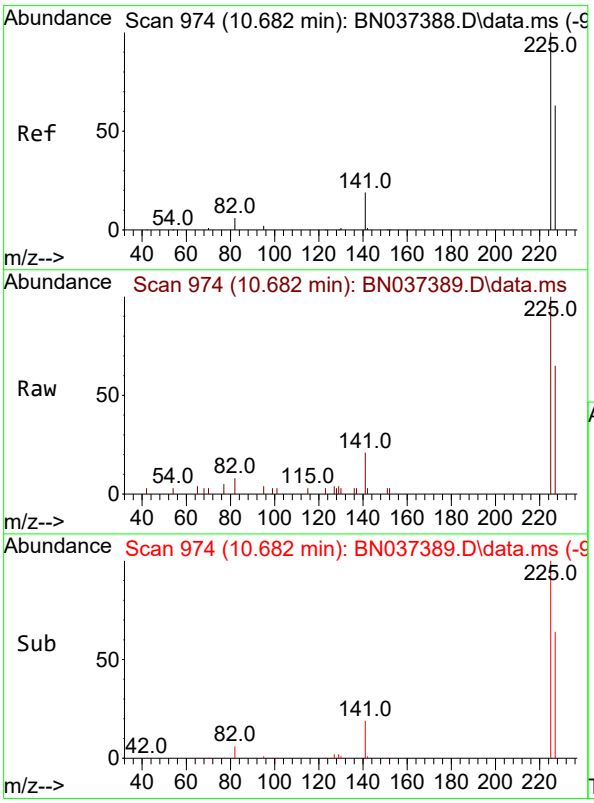
#9
Naphthalene
Concen: 0.755 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 6991

Ion	Ratio	Lower	Upper
128	100		
129	12.2	10.4	15.6
127	14.8	12.2	18.4

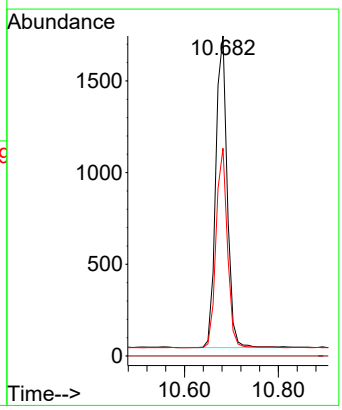


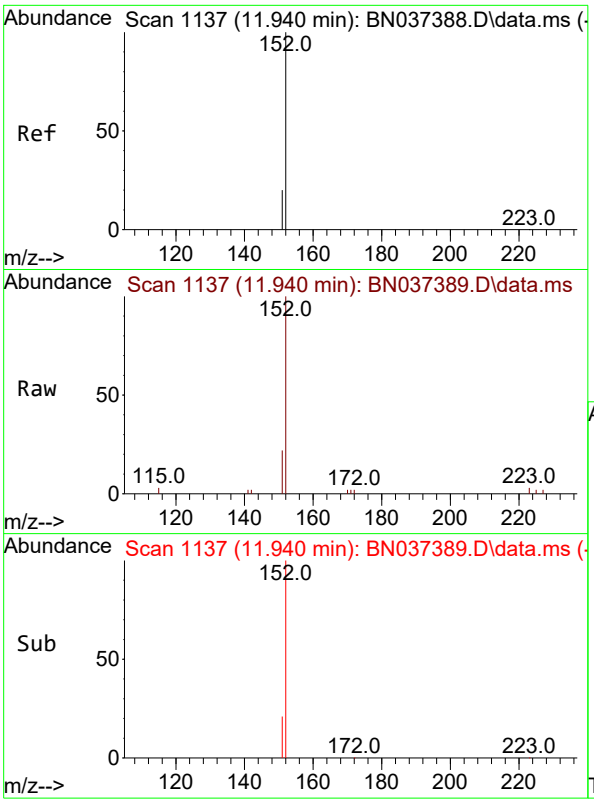


#10
Hexachlorobutadiene
Concen: 0.783 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:225 Resp: 2877

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	49.9	74.9



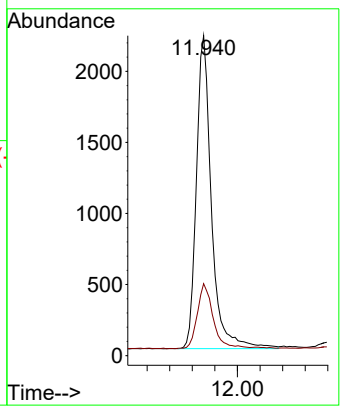


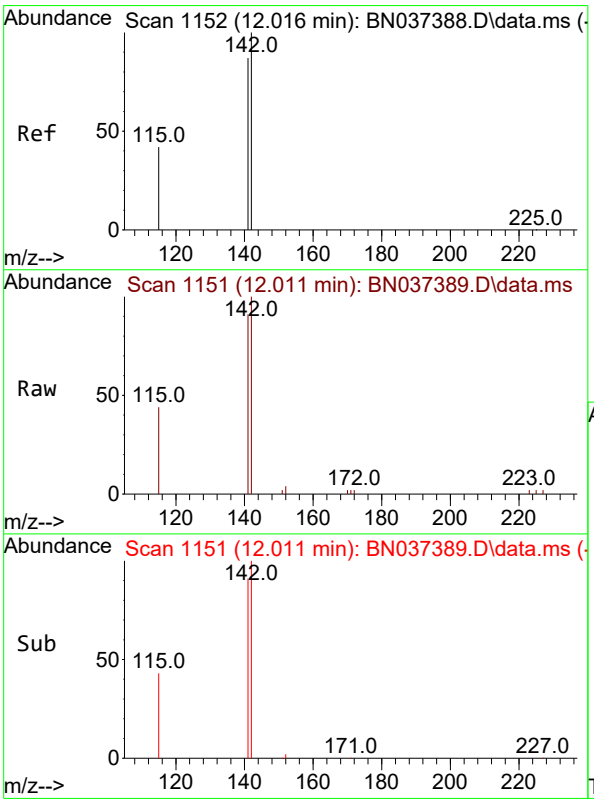
#11
2-Methylnaphthalene-d10
Concen: 0.734 ng
RT: 11.940 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 4083

Ion	Ratio	Lower	Upper
152	100		
151	21.6	18.4	27.6

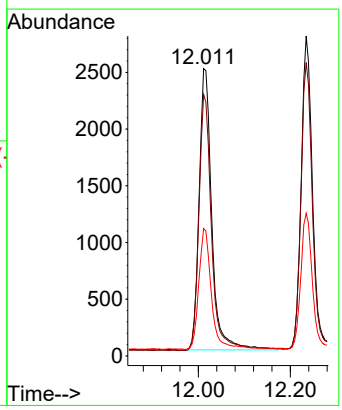


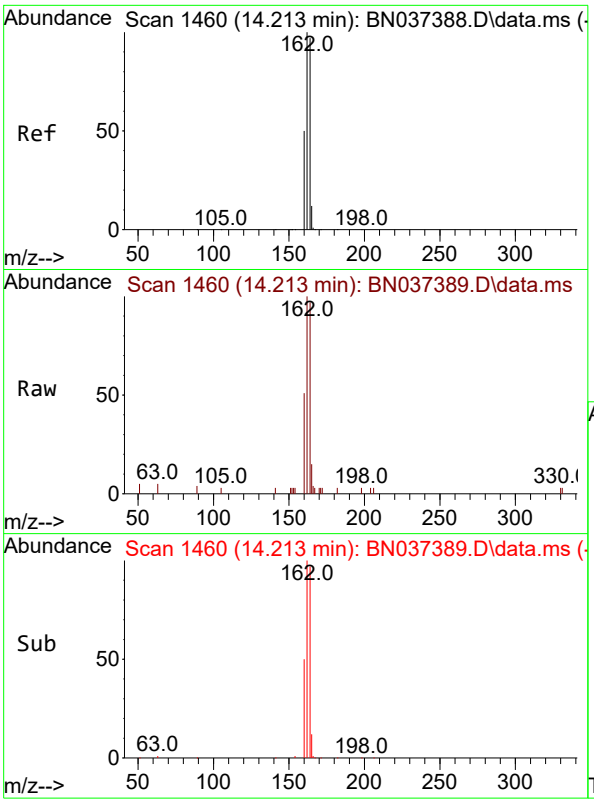


#12
2-Methylnaphthalene
Concen: 0.747 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:142 Resp: 4762

Ion	Ratio	Lower	Upper
142	100		
141	90.9	70.1	105.1
115	44.3	35.8	53.6



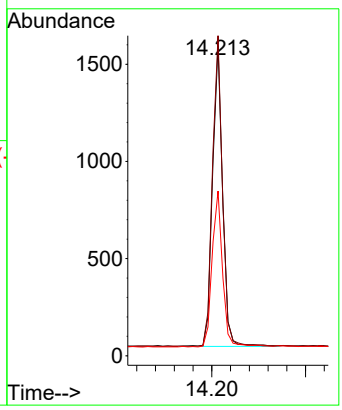


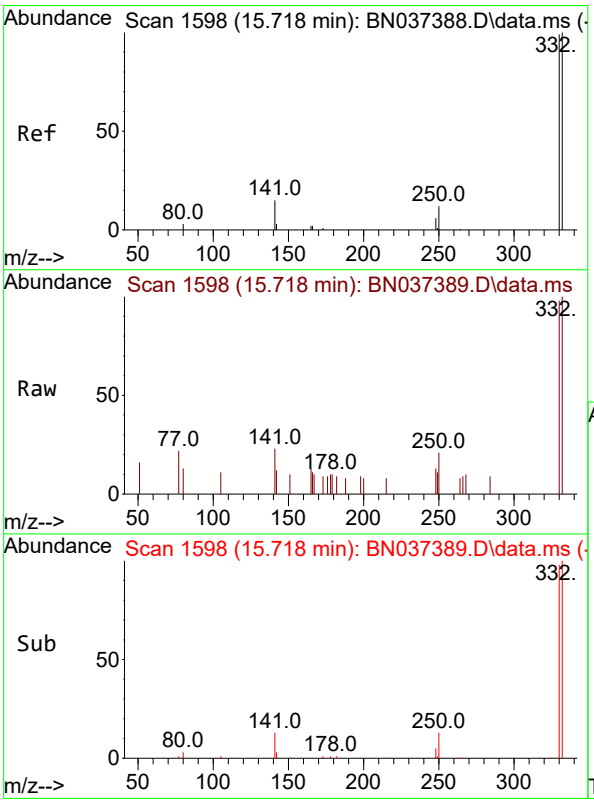
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 2328

Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.6	123.8
160	53.1	42.2	63.2

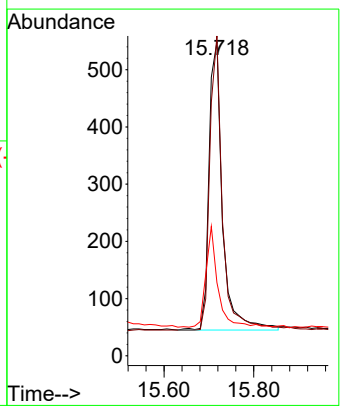


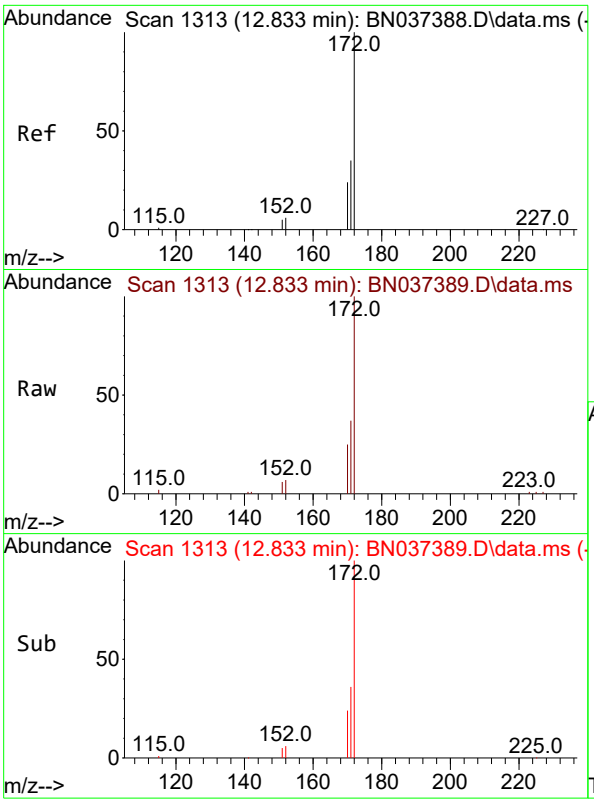


#14
2,4,6-Tribromophenol
Concen: 0.766 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:330 Resp: 1046

Ion	Ratio	Lower	Upper
330	100		
332	95.4	77.8	116.8
141	31.1	24.0	36.0



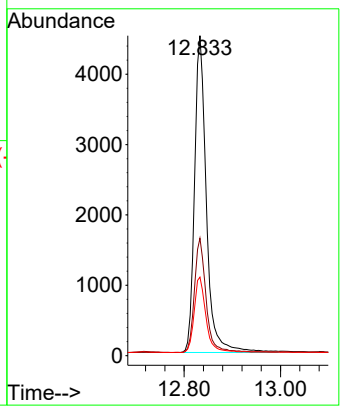


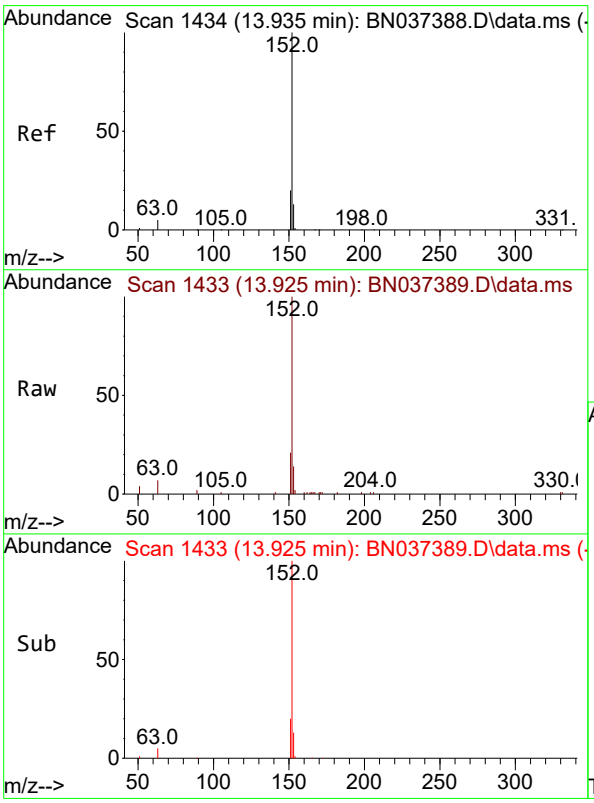
#15
2-Fluorobiphenyl
Concen: 0.765 ng
RT: 12.833 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 7691

Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.8	43.2
170	24.5	20.3	30.5

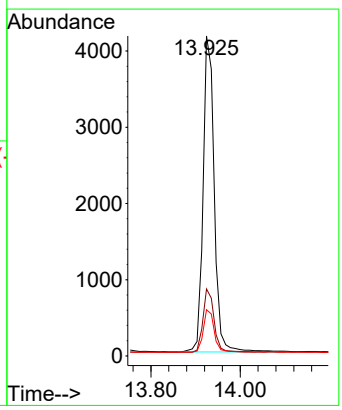


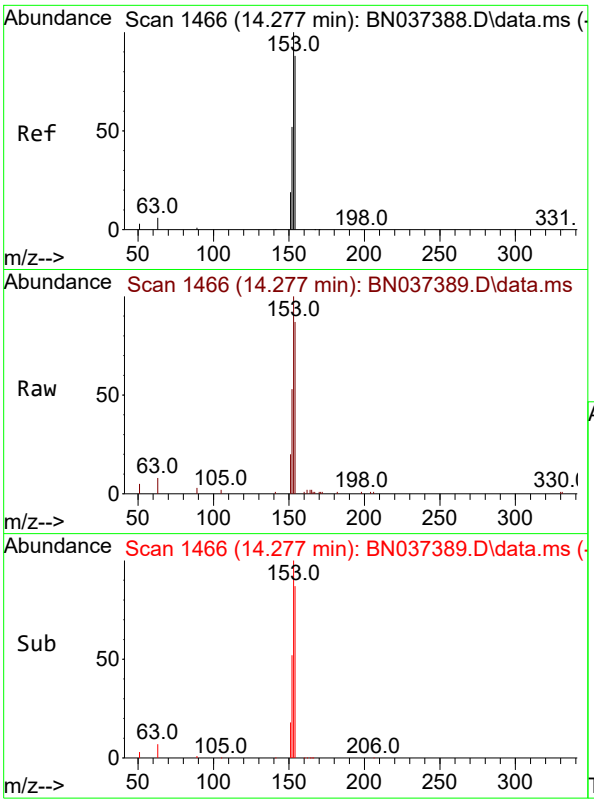


#16
Acenaphthylene
Concen: 0.742 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:152 Resp: 7160

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.3	10.3	15.5



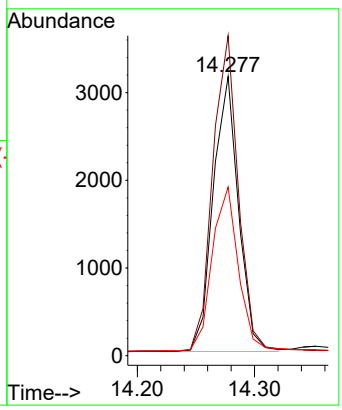


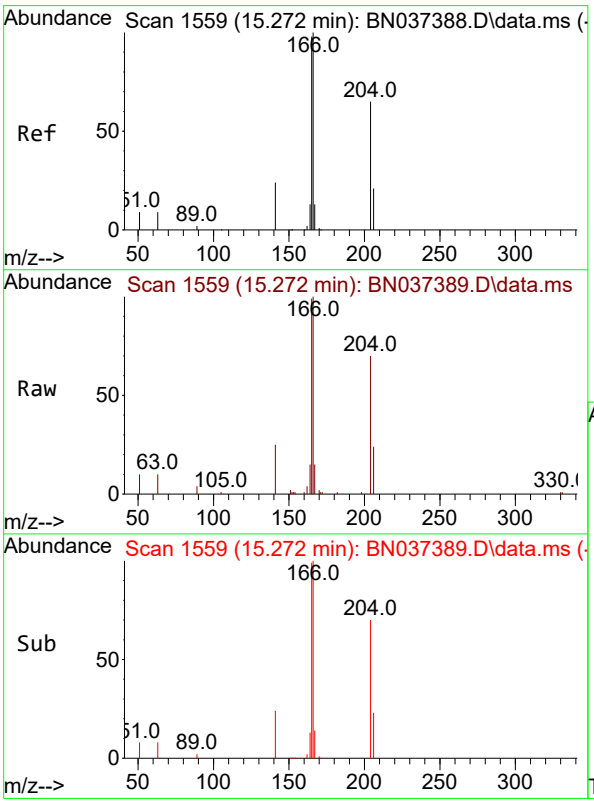
#17
Acenaphthene
Concen: 0.745 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 4696

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.6	141.8
152	62.8	50.2	75.2

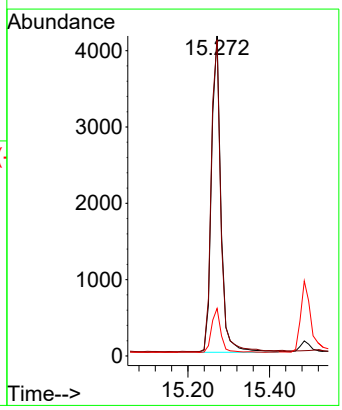


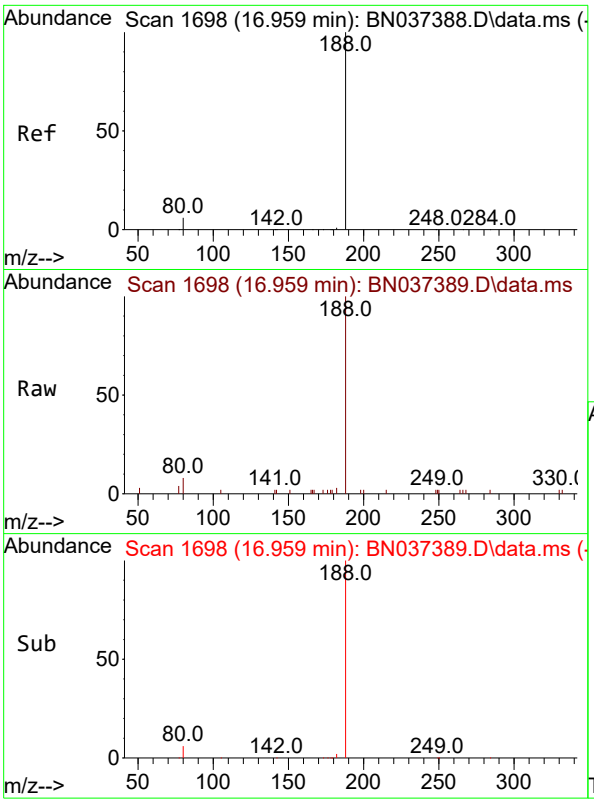


#18
Fluorene
Concen: 0.743 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:166 Resp: 6613

Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.4	119.2
167	13.7	10.6	15.8



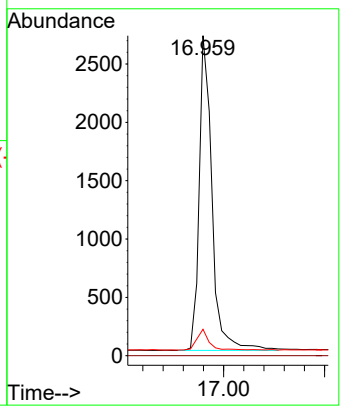


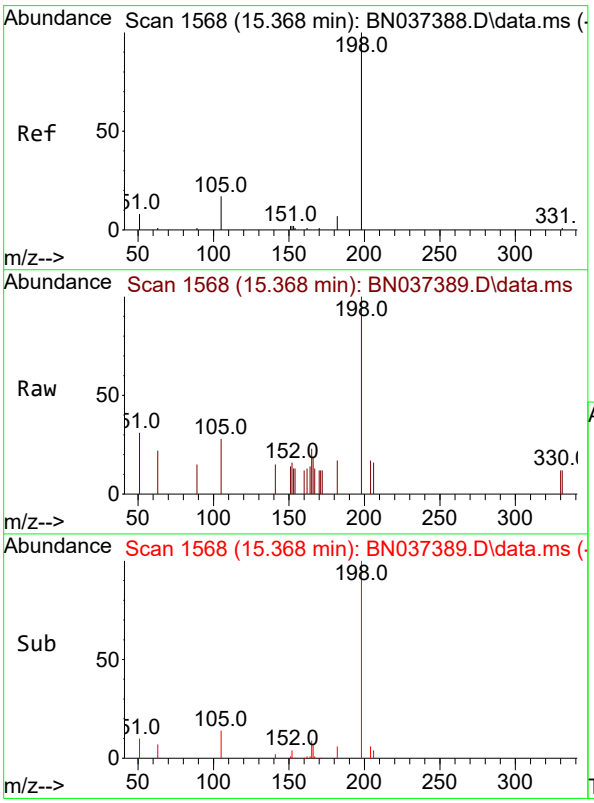
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 4756

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.2	6.2	9.4

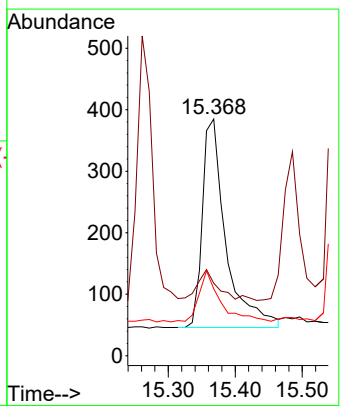


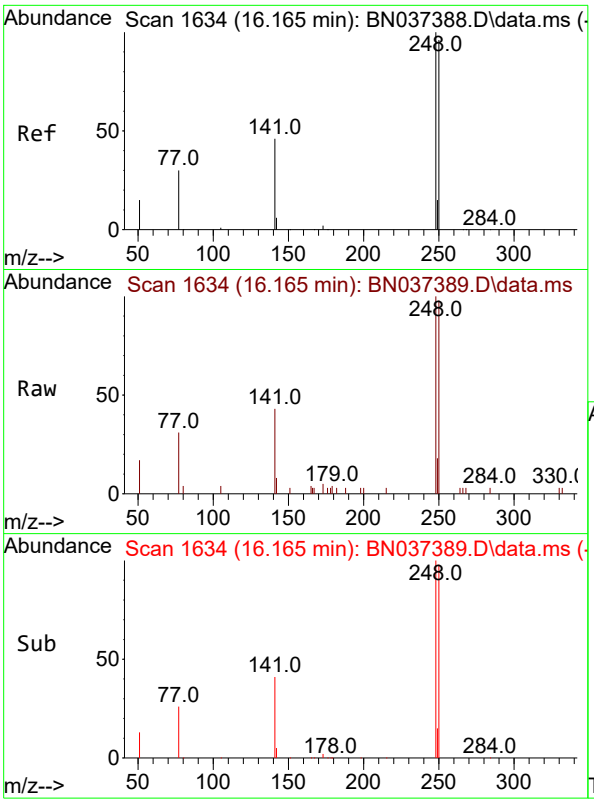


#20
4,6-Dinitro-2-methylphenol
Concen: 0.676 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:198 Resp: 826

Ion	Ratio	Lower	Upper
198	100		
51	30.6	38.8	58.2#
105	28.3	29.8	44.6#



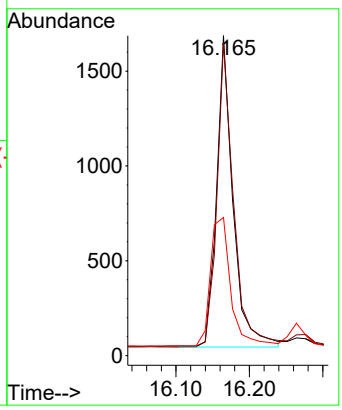


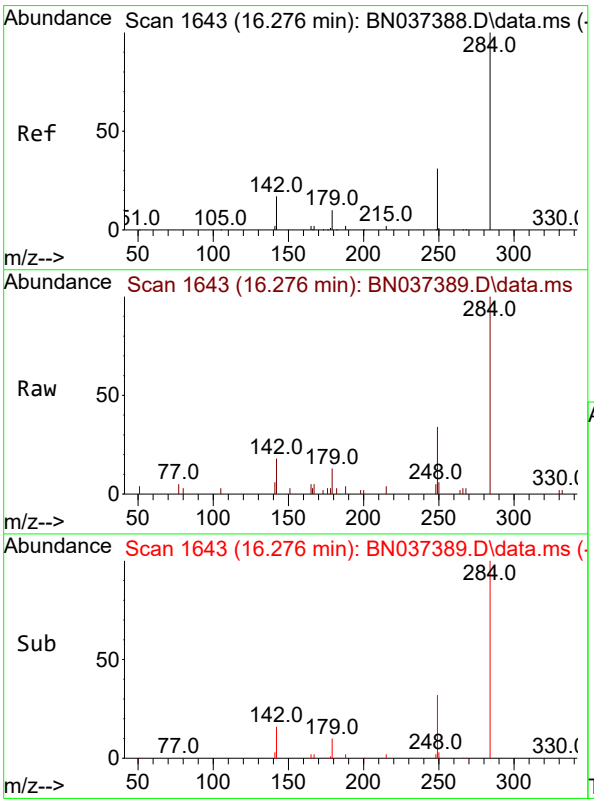
#21
4-Bromophenyl-phenylether
Concen: 0.762 ng
RT: 16.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 2555

Ion	Ratio	Lower	Upper
248	100		
250	97.7	77.0	115.4
141	43.2	38.7	58.1

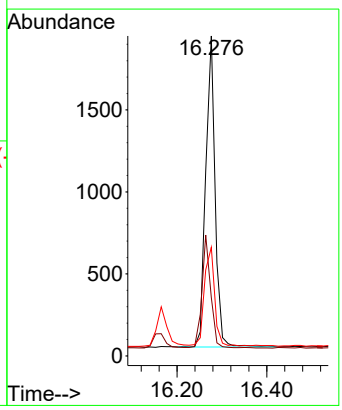


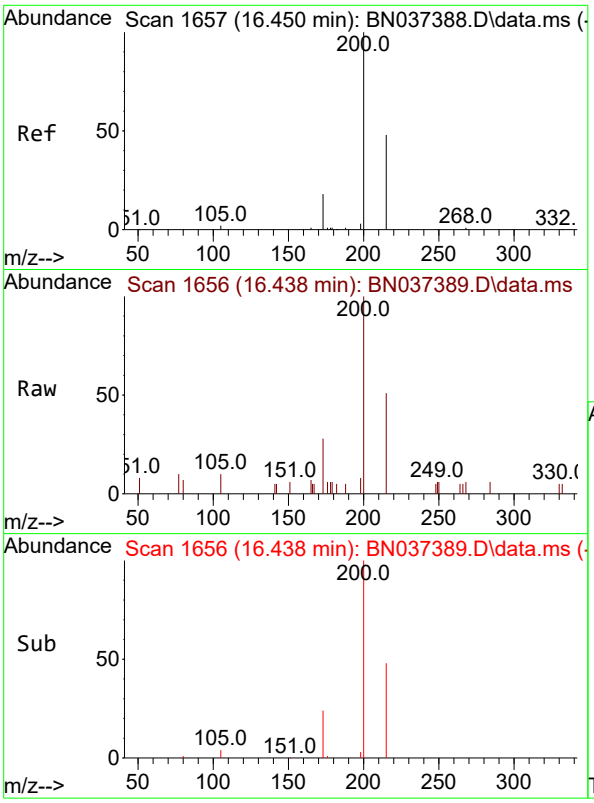


#22
Hexachlorobenzene
Concen: 0.767 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:284 Resp: 2768

Ion	Ratio	Lower	Upper
284	100		
142	34.0	27.2	40.8
249	34.2	26.7	40.1



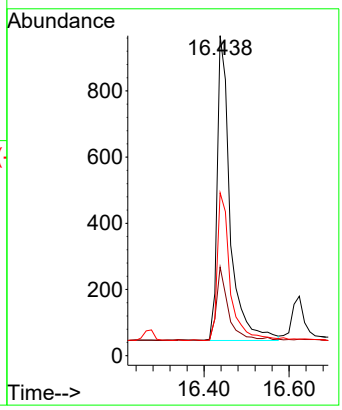


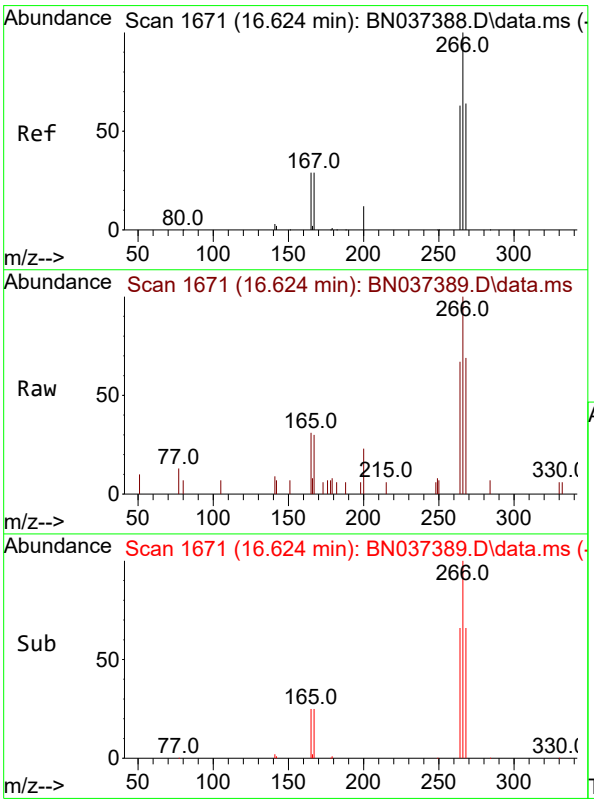
#23
Atrazine
Concen: 0.730 ng
RT: 16.438 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 1939

Ion	Ratio	Lower	Upper
200	100		
173	27.7	19.0	28.6
215	50.9	41.3	61.9

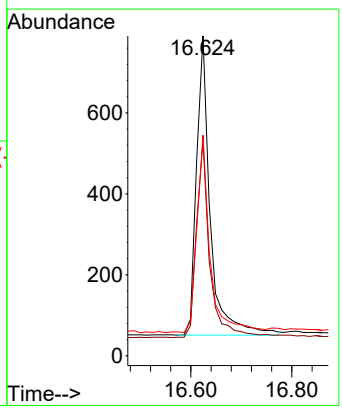


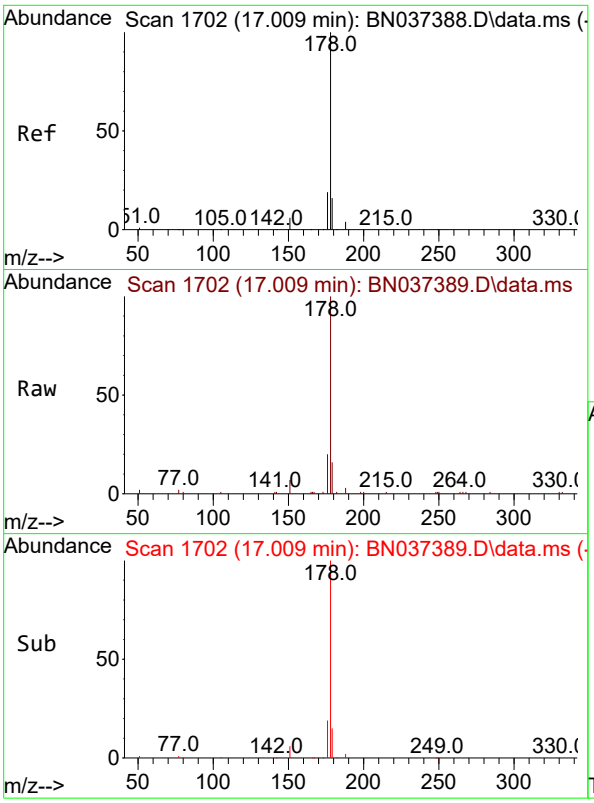


#24
Pentachlorophenol
Concen: 0.722 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:266 Resp: 1406

Ion	Ratio	Lower	Upper
266	100		
264	63.7	49.2	73.8
268	63.9	54.2	81.4



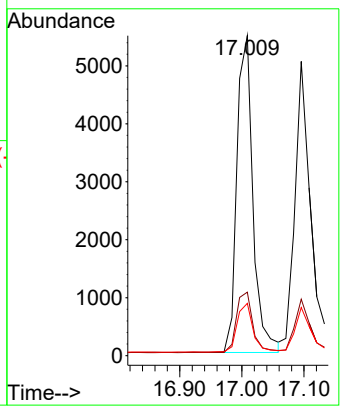


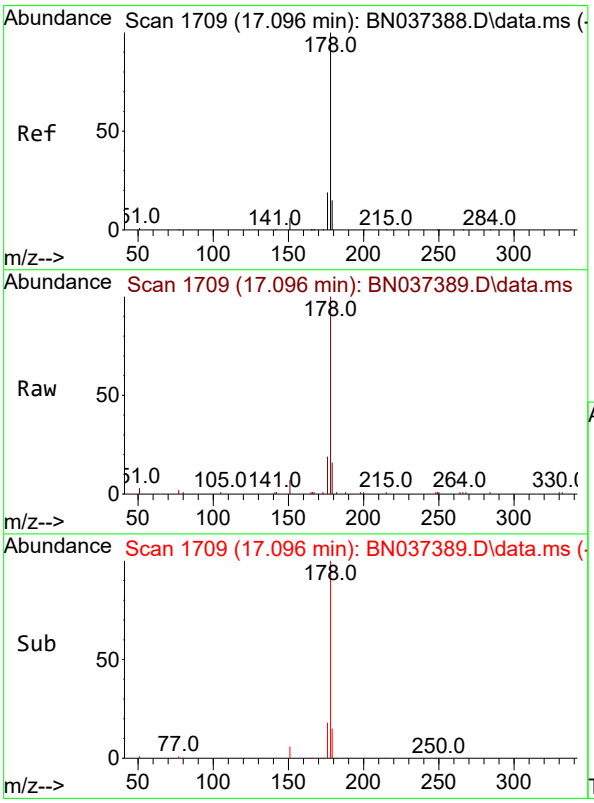
#25
Phenanthrene
Concen: 0.737 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 9870

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.6	23.4
179	15.3	12.8	19.2

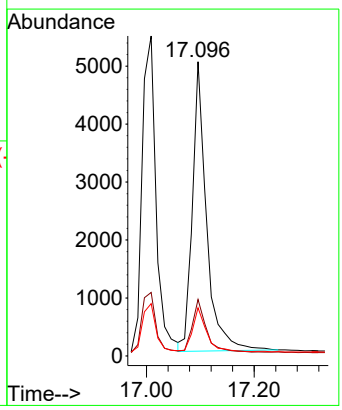


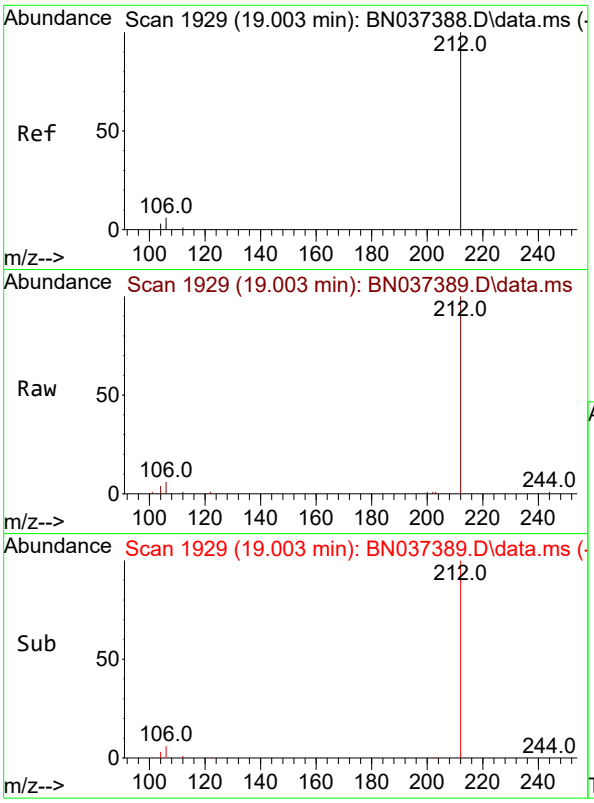


#26
Anthracene
Concen: 0.741 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:178 Resp: 9124

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.9	22.3
179	15.4	12.4	18.6



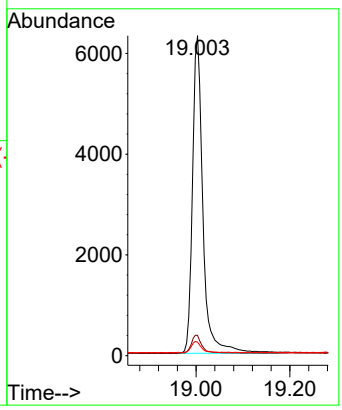


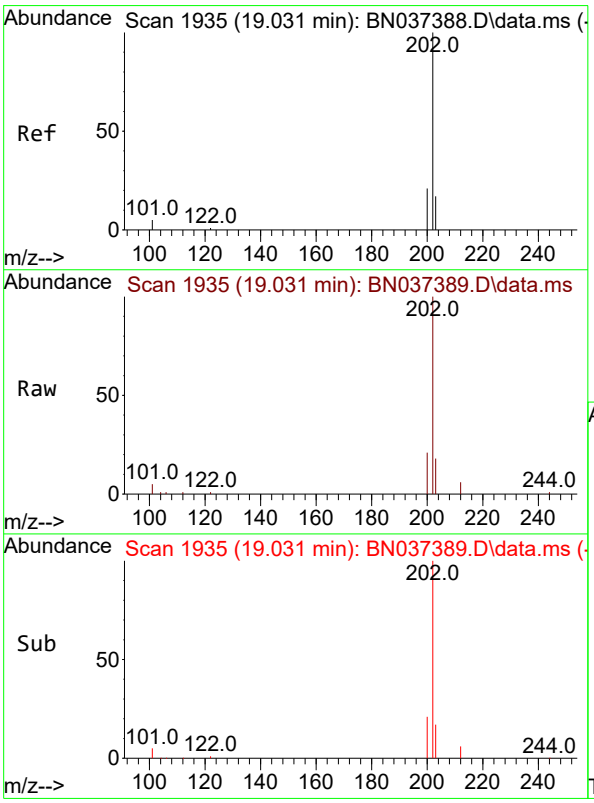
#27
Fluoranthene-d10
Concen: 0.717 ng
RT: 19.003 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 9775

Ion	Ratio	Lower	Upper
212	100		
106	5.7	4.5	6.7
104	3.3	2.7	4.1

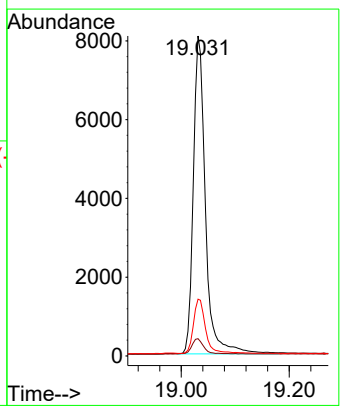


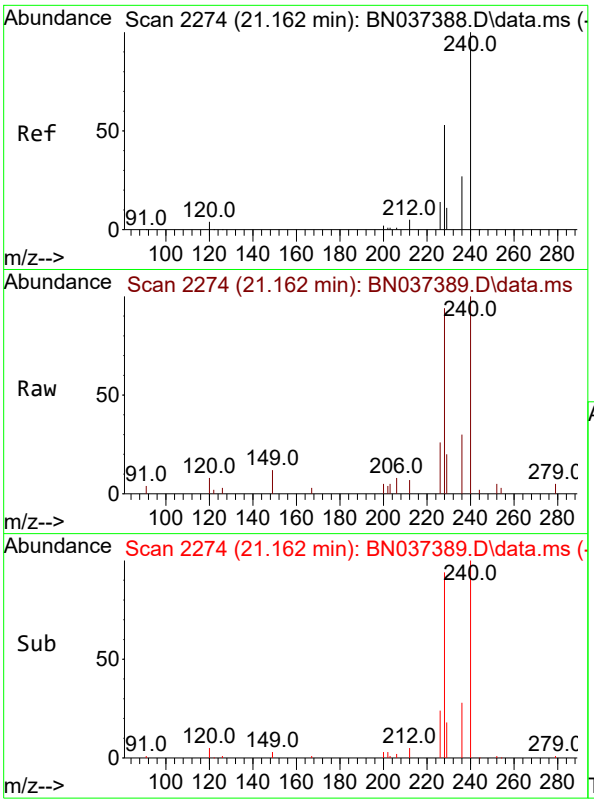


#28
Fluoranthene
Concen: 0.734 ng
RT: 19.031 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:202 Resp: 12556

Ion	Ratio	Lower	Upper
202	100		
101	4.9	3.8	5.6
203	16.9	13.5	20.3



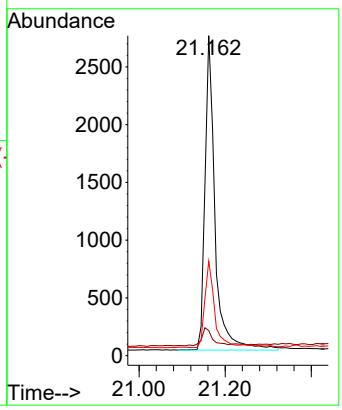


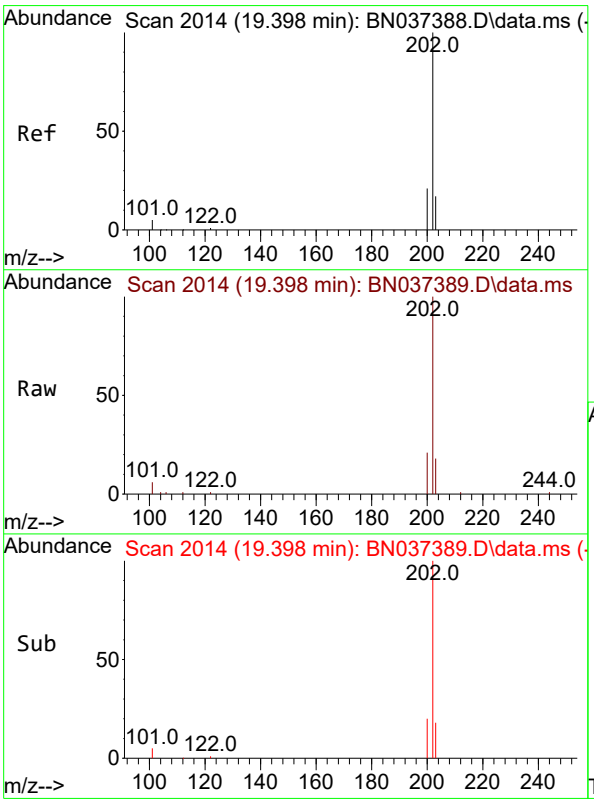
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 4408

Ion	Ratio	Lower	Upper
240	100		
120	7.9	5.3	7.9
236	29.6	22.7	34.1

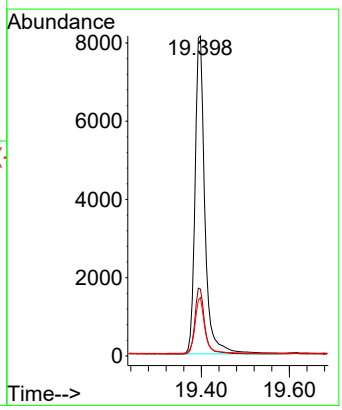


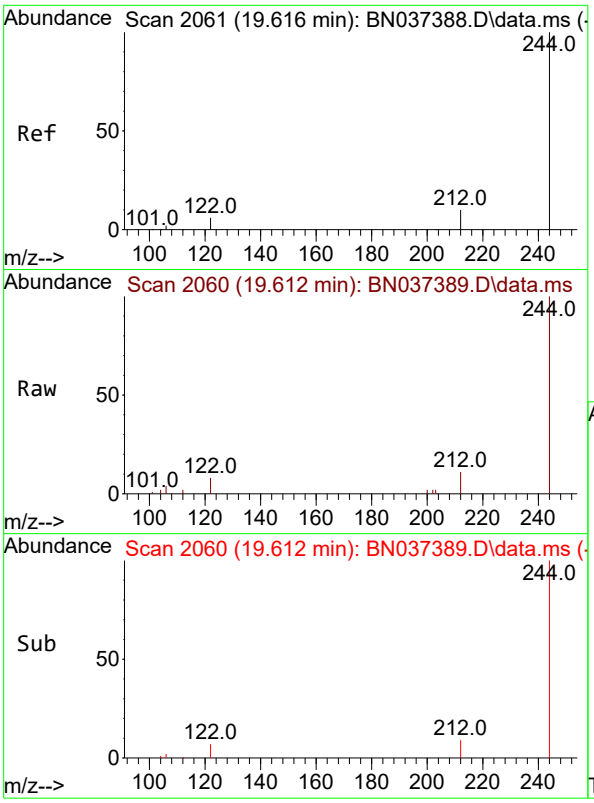


#30
Pyrene
Concen: 0.756 ng
RT: 19.398 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:202 Resp: 12616

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.5	24.7
203	17.7	14.2	21.2



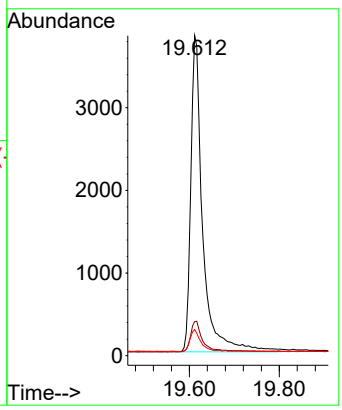


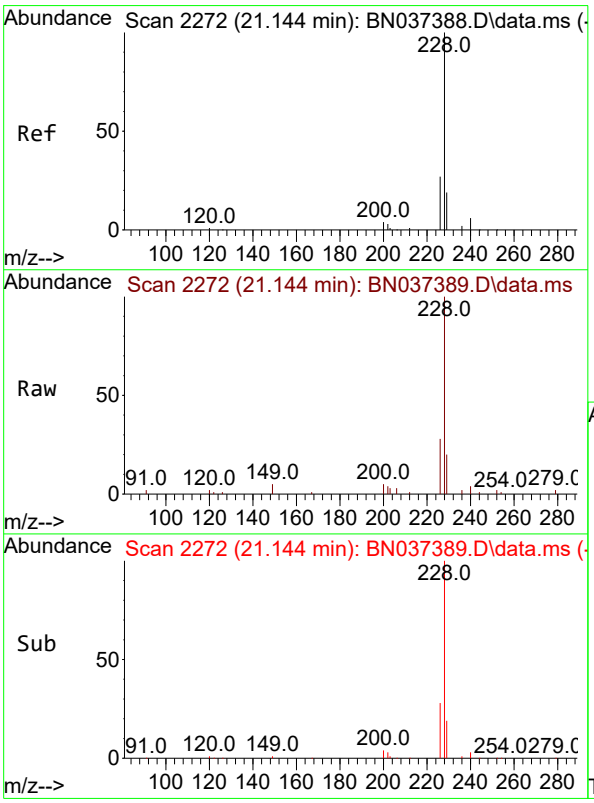
#31
Terphenyl-d14
Concen: 0.747 ng
RT: 19.612 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 7017

Ion	Ratio	Lower	Upper
244	100		
212	10.7	9.1	13.7
122	8.1	6.3	9.5

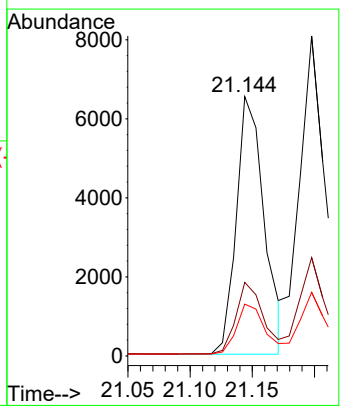


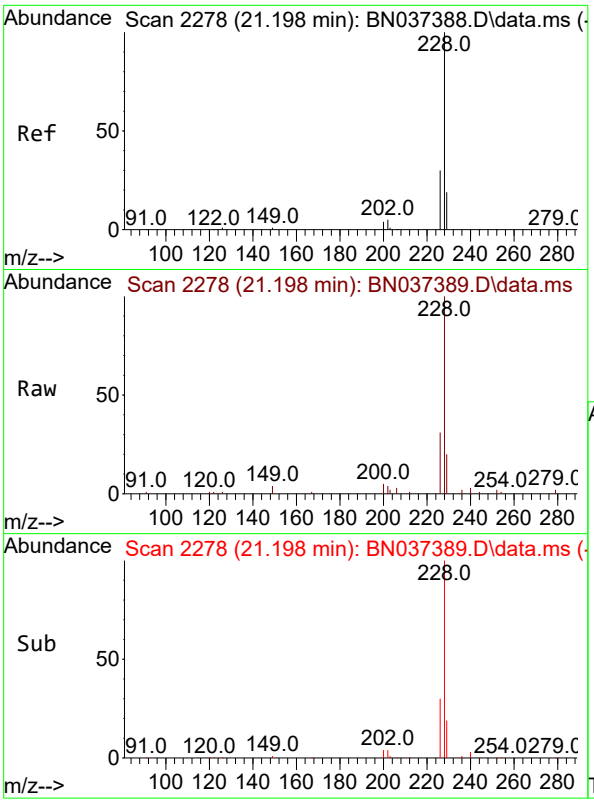


#32
Benzo(a)anthracene
Concen: 0.733 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:228 Resp: 10155

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	34.0
229	20.0	16.2	24.2



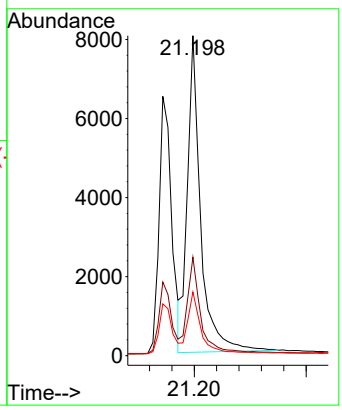


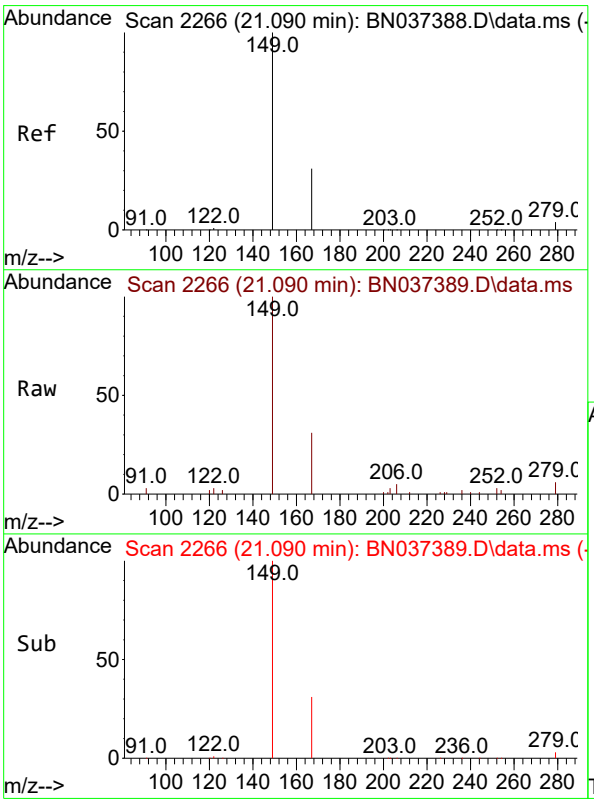
#33
Chrysene
Concen: 0.767 ng
RT: 21.198 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 13144

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.5	36.7
229	19.9	16.1	24.1

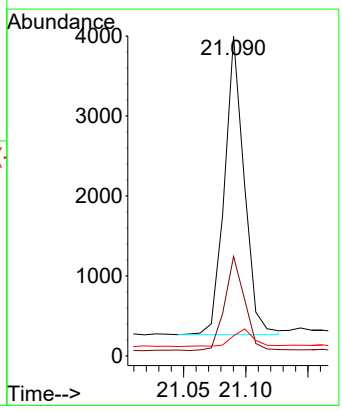


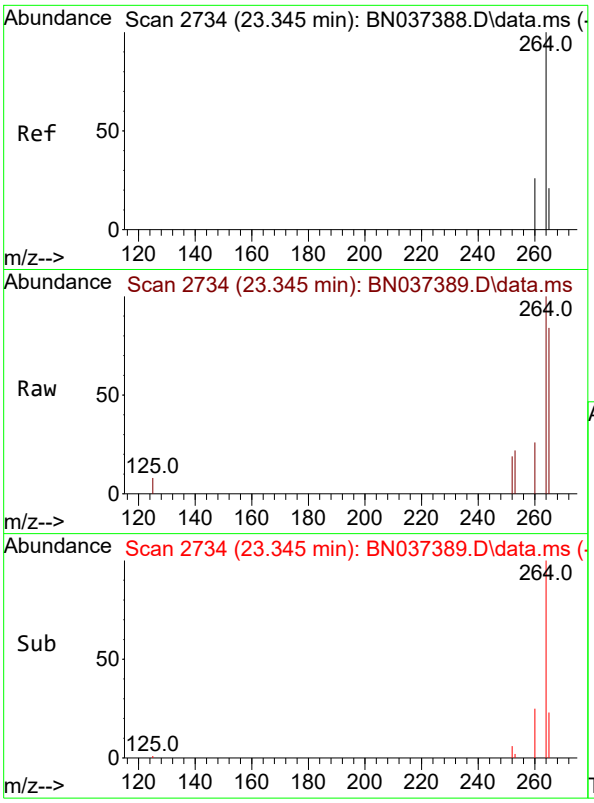


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.749 ng
RT: 21.090 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:149 Resp: 4107

Ion	Ratio	Lower	Upper
149	100		
167	31.9	24.8	37.2
279	6.4	5.0	7.6



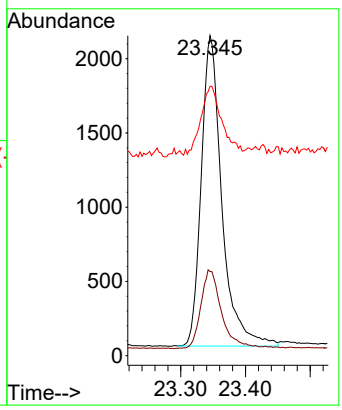


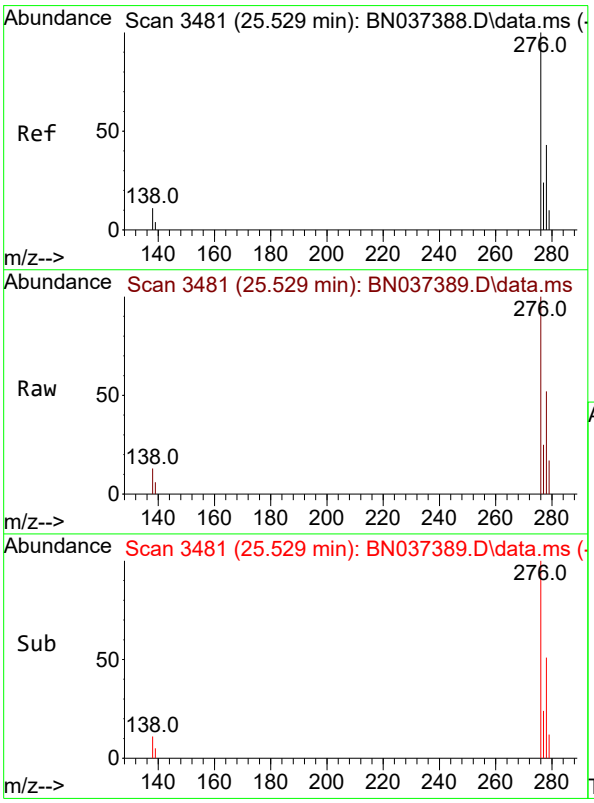
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 4628

Ion	Ratio	Lower	Upper
264	100		
260	26.3	21.4	32.0
265	84.2	56.2	84.4

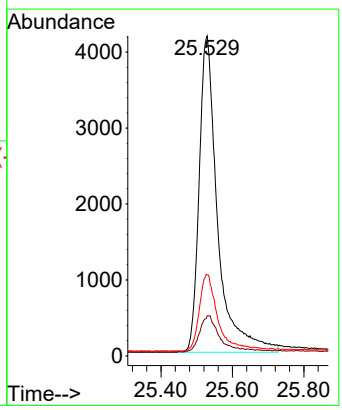


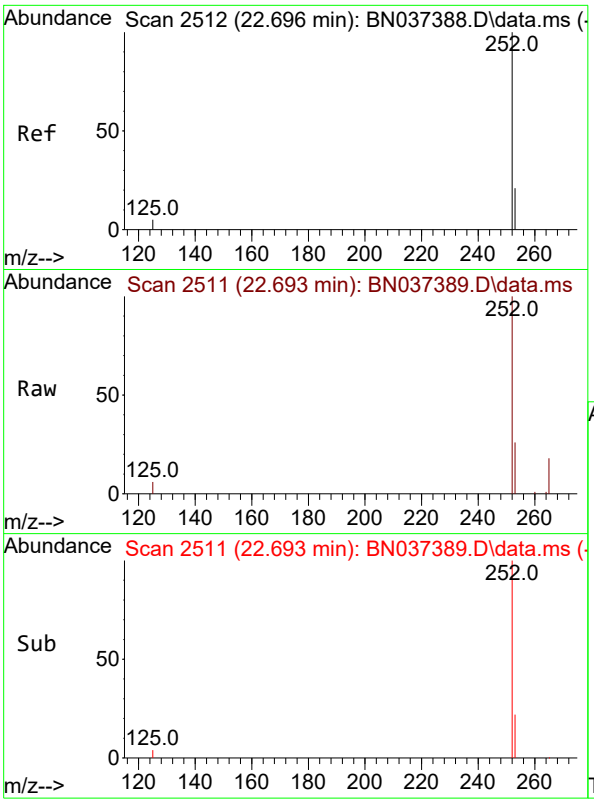


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.768 ng
RT: 25.529 min Scan# 3481
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:276 Resp: 14993

Ion	Ratio	Lower	Upper
276	100		
138	11.6	8.5	12.7
277	23.8	19.7	29.5



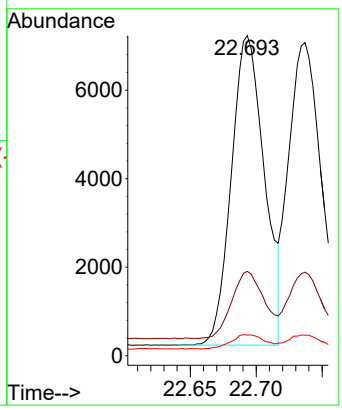


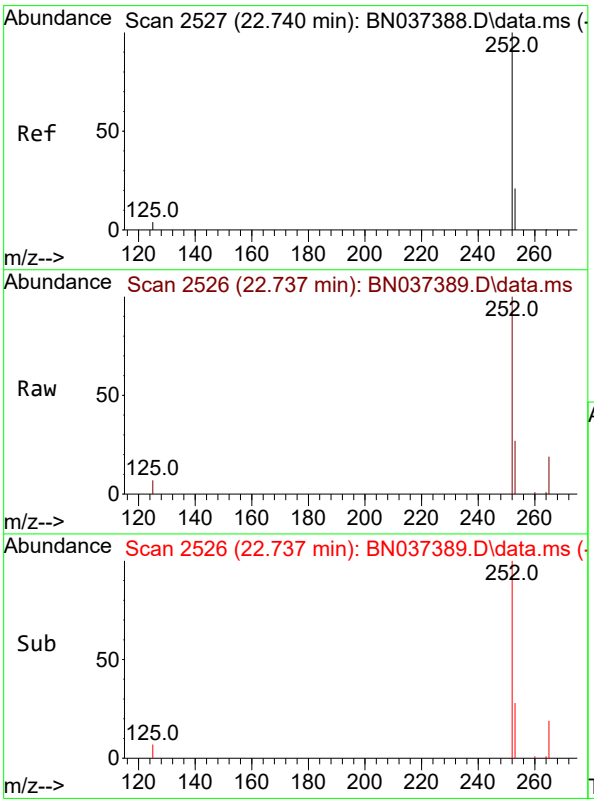
#37
Benzo(b)fluoranthene
Concen: 0.749 ng
RT: 22.693 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 12221

Ion	Ratio	Lower	Upper
252	100		
253	26.4	22.8	34.2
125	6.4	6.2	9.4

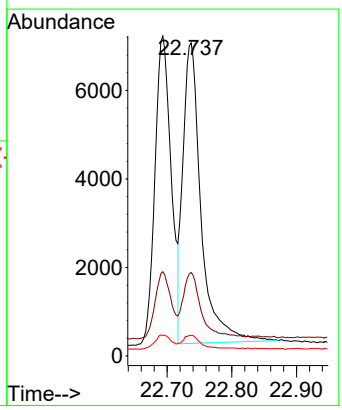


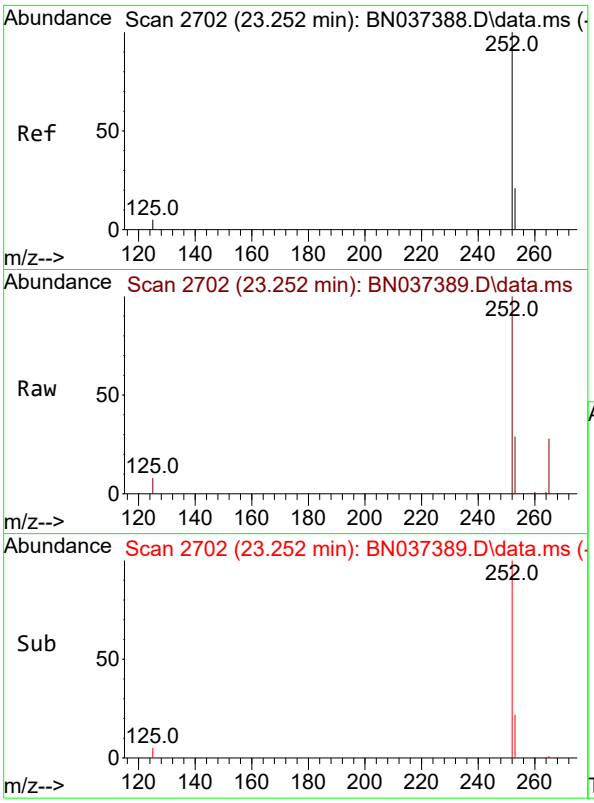


#38
Benzo(k)fluoranthene
Concen: 0.759 ng
RT: 22.737 min Scan# 2526
Delta R.T. -0.003 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:252 Resp: 13232

Ion	Ratio	Lower	Upper
252	100		
253	26.7	23.2	34.8
125	6.6	6.0	9.0



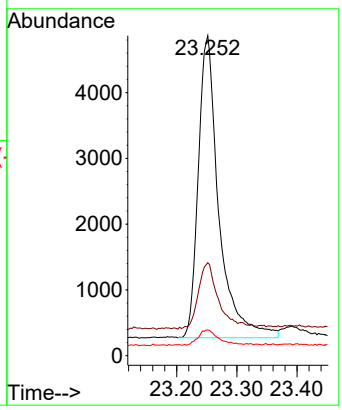


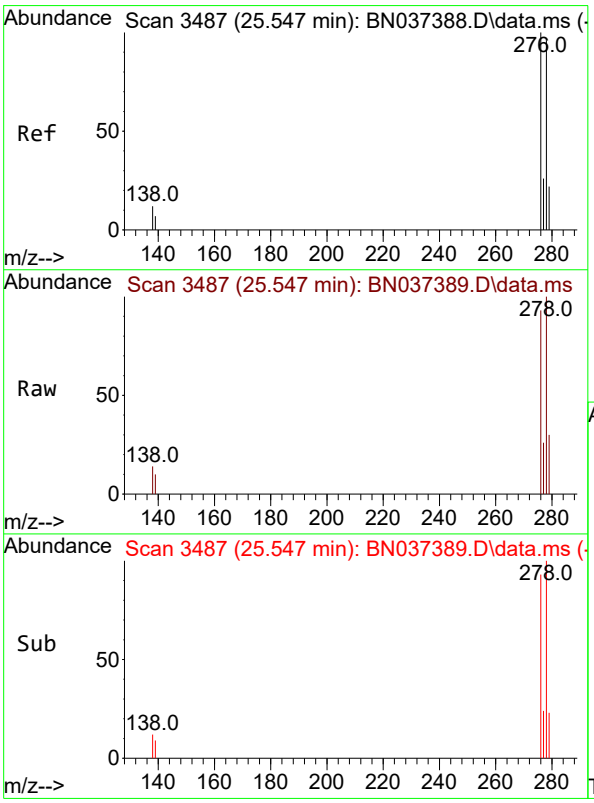
#39
Benzo(a)pyrene
Concen: 0.748 ng
RT: 23.252 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 10863

Ion	Ratio	Lower	Upper
252	100		
253	29.0	25.6	38.4
125	8.0	7.5	11.3

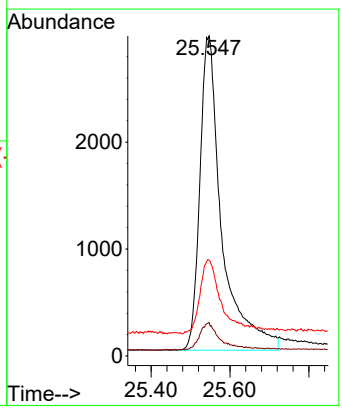


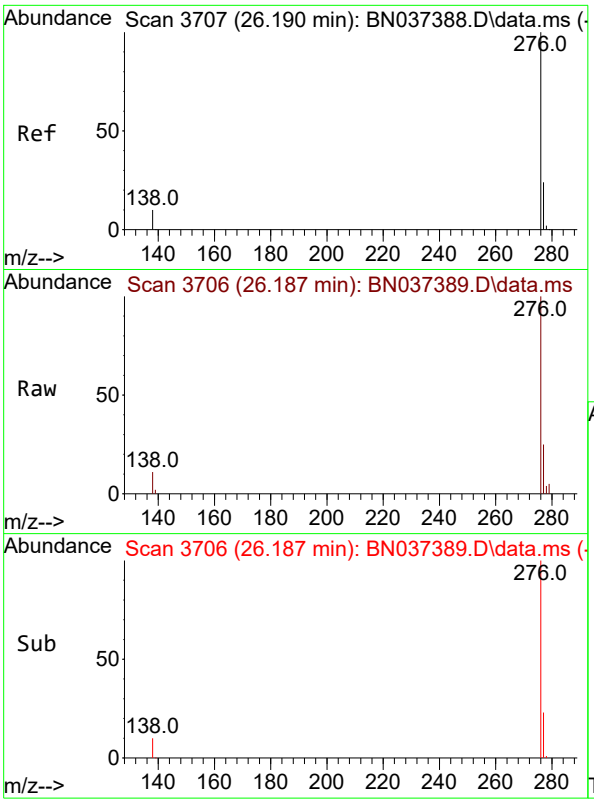


#40
Dibenzo(a,h)anthracene
Concen: 0.759 ng
RT: 25.547 min Scan# 3487
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:278 Resp: 11379

Ion	Ratio	Lower	Upper
278	100		
139	10.5	8.5	12.7
279	30.0	27.5	41.3



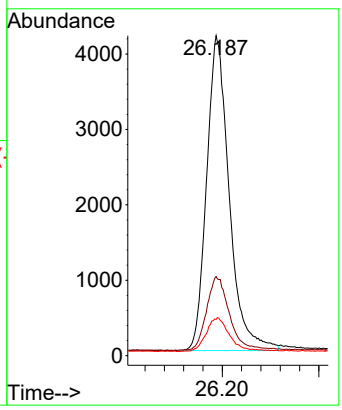


#41
Benzo(g,h,i)perylene
Concen: 0.756 ng
RT: 26.187 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 13535

Ion	Ratio	Lower	Upper
276	100		
277	24.8	21.0	31.4
138	11.4	9.6	14.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037390.D
Acq On : 26 Jun 2025 13:05
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 26 14:44:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.561	152	1757	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	3755	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	2497	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	5134	0.400	ng		0.00
29) Chrysene-d12	21.162	240	4846	0.400	ng		0.00
35) Perylene-d12	23.345	264	4921	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	5301	1.566	ng		0.00
5) Phenol-d6	6.745	99	5895	1.679	ng		0.00
8) Nitrobenzene-d5	8.707	82	5183	1.716	ng		-0.01
11) 2-Methylnaphthalene-d10	11.935	152	9434	1.624	ng		0.00
14) 2,4,6-Tribromophenol	15.705	330	2504	1.710	ng		-0.01
15) 2-Fluorobiphenyl	12.833	172	17962	1.666	ng		0.00
27) Fluoranthene-d10	18.998	212	23030	1.565	ng		0.00
31) Terphenyl-d14	19.612	244	17013	1.647	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.097	88	2649	1.682	ng		96
3) n-Nitrosodimethylamine	3.408	42	2708	1.646	ng	#	97
6) bis(2-Chloroethyl)ether	6.997	93	5373	1.721	ng		97
9) Naphthalene	10.383	128	15743	1.629	ng		97
10) Hexachlorobutadiene	10.682	225	6333	1.651	ng	#	98
12) 2-Methylnaphthalene	12.011	142	11211	1.685	ng		97
16) Acenaphthylene	13.925	152	17120	1.653	ng		100
17) Acenaphthene	14.277	154	11218	1.659	ng		98
18) Fluorene	15.272	166	16008	1.676	ng		100
20) 4,6-Dinitro-2-methylph...	15.357	198	2324	1.762	ng	#	63
21) 4-Bromophenyl-phenylether	16.165	248	6221	1.718	ng	#	92
22) Hexachlorobenzene	16.276	284	6380	1.638	ng		98
23) Atrazine	16.438	200	4771	1.663	ng		98
24) Pentachlorophenol	16.624	266	3391	1.612	ng		96
25) Phenanthrene	16.996	178	24063	1.663	ng		99
26) Anthracene	17.096	178	22103	1.662	ng		100
28) Fluoranthene	19.031	202	30535	1.653	ng		99
30) Pyrene	19.393	202	30249	1.650	ng		100
32) Benzo(a)anthracene	21.144	228	25546	1.678	ng		99
33) Chrysene	21.198	228	30118	1.598	ng		99
34) Bis(2-ethylhexyl)phtha...	21.090	149	9332	1.548	ng		99
36) Indeno(1,2,3-cd)pyrene	25.529	276	35151	1.694	ng		98
37) Benzo(b)fluoranthene	22.690	252	28814	1.661	ng	#	91
38) Benzo(k)fluoranthene	22.737	252	30557	1.648	ng	#	91
39) Benzo(a)pyrene	23.249	252	25315	1.640	ng	#	88
40) Dibenzo(a,h)anthracene	25.538	278	27440	1.722	ng	#	87
41) Benzo(g,h,i)perylene	26.187	276	31821	1.671	ng		97

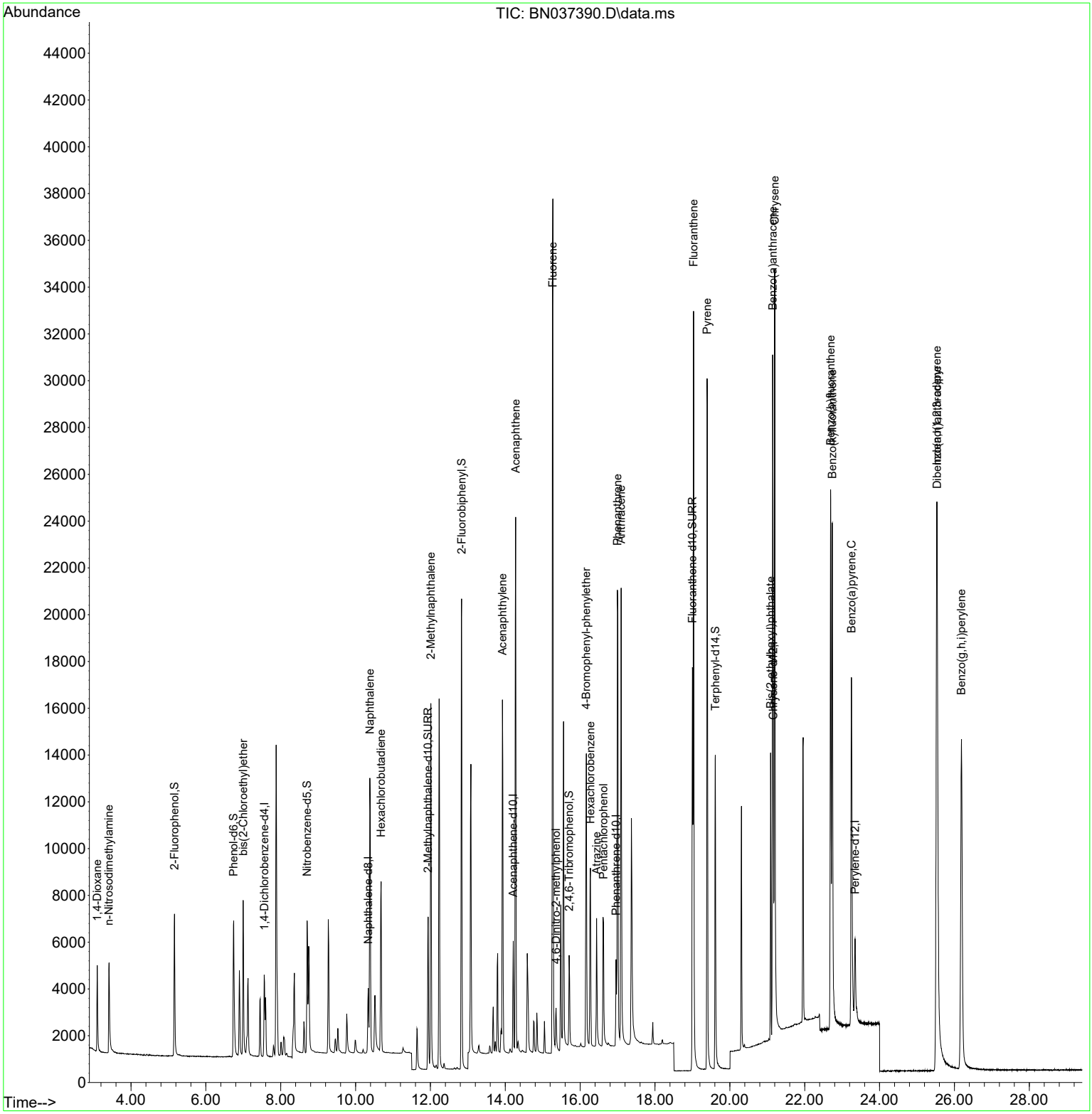
(#) = qualifier out of range (m) = manual integration (+) = signals summed

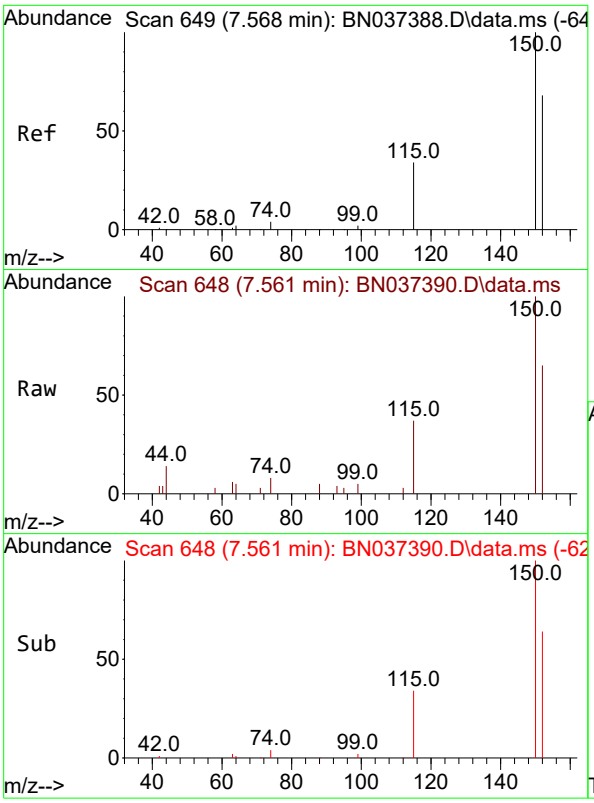
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037390.D
Acq On : 26 Jun 2025 13:05
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 26 14:44:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration



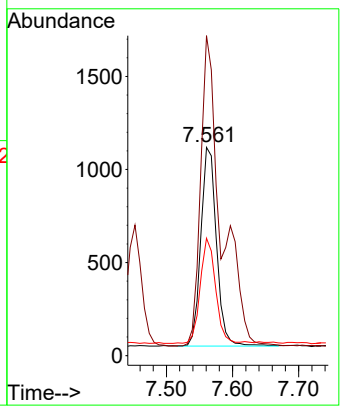


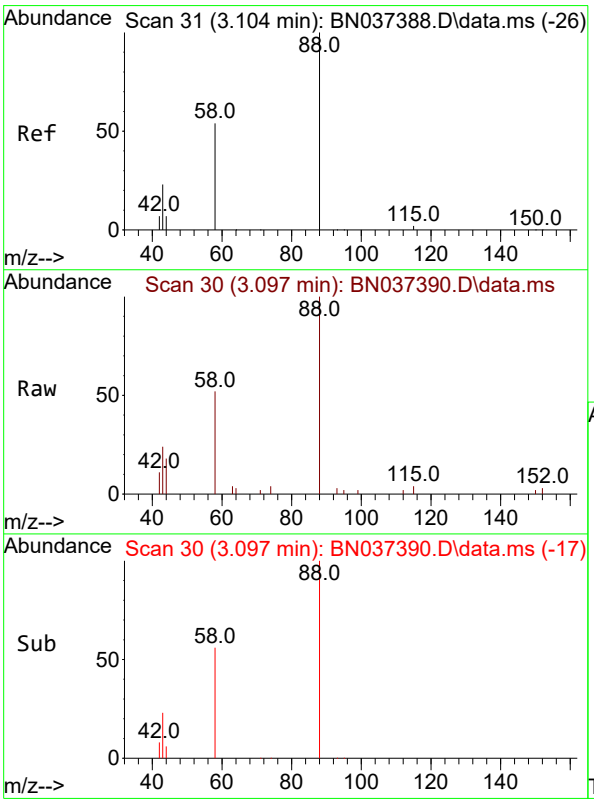
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 1757

Ion	Ratio	Lower	Upper
152	100		
150	153.6	116.2	174.2
115	56.4	42.9	64.3

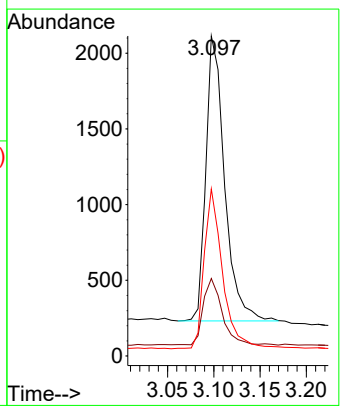


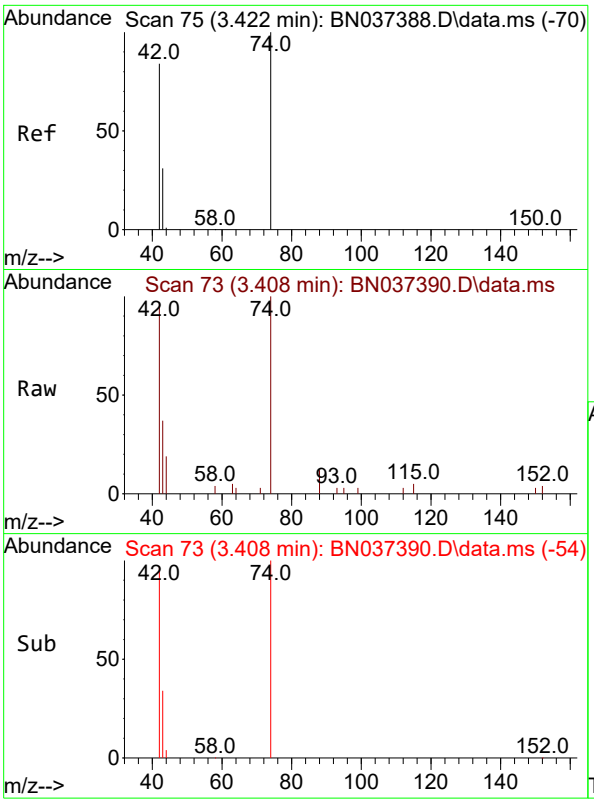


#2
1,4-Dioxane
Concen: 1.682 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 88 Resp: 2649

Ion	Ratio	Lower	Upper
88	100		
43	23.8	21.6	32.4
58	55.3	45.9	68.9



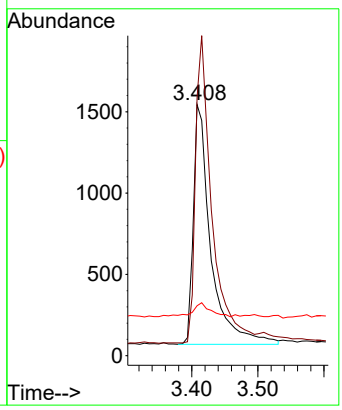


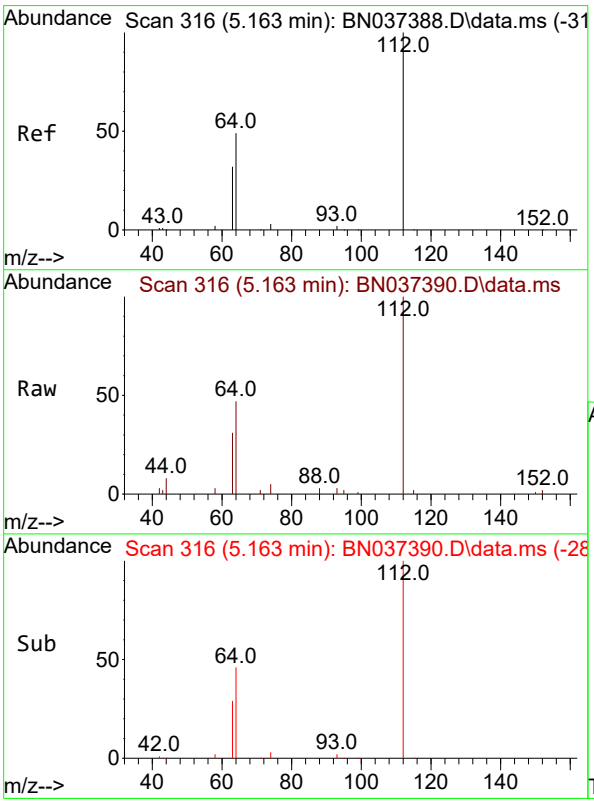
#3
n-Nitrosodimethylamine
Concen: 1.646 ng
RT: 3.408 min Scan# 7
Delta R.T. -0.014 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 2708

Ion	Ratio	Lower	Upper
42	100		
74	125.6	97.8	146.8
44	7.3	8.7	13.1#

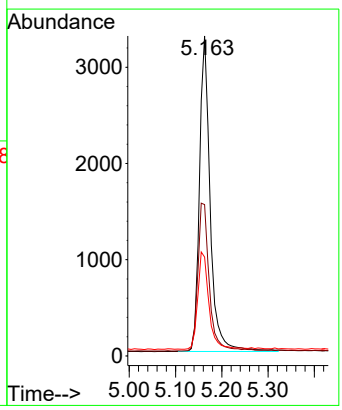


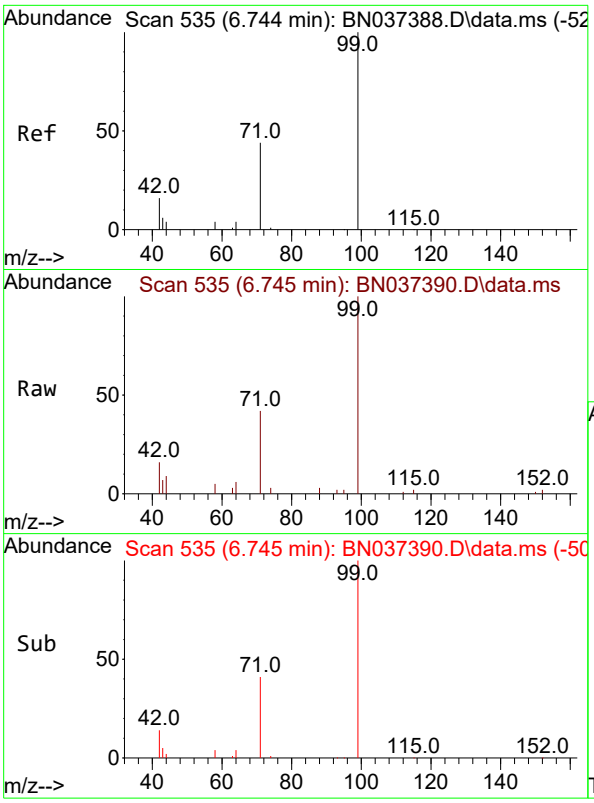


#4
2-Fluorophenol
Concen: 1.566 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:112 Resp: 5301

Ion	Ratio	Lower	Upper
112	100		
64	50.2	40.3	60.5
63	32.2	26.1	39.1



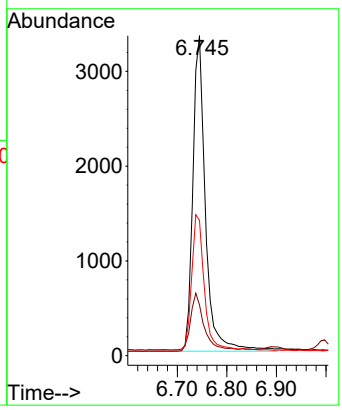


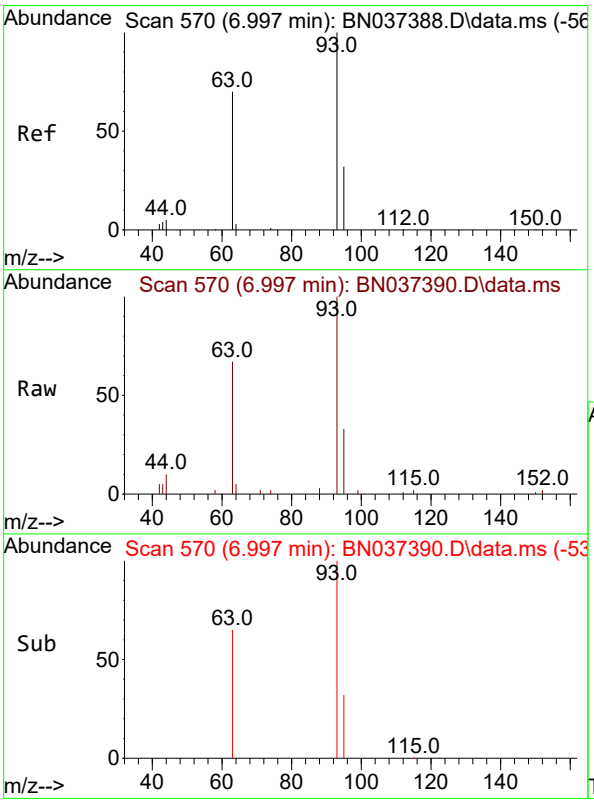
#5
Phenol-d6
Concen: 1.679 ng
RT: 6.745 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 5895

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.6	23.4
71	44.7	35.8	53.8

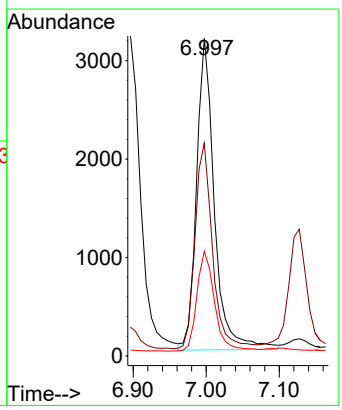


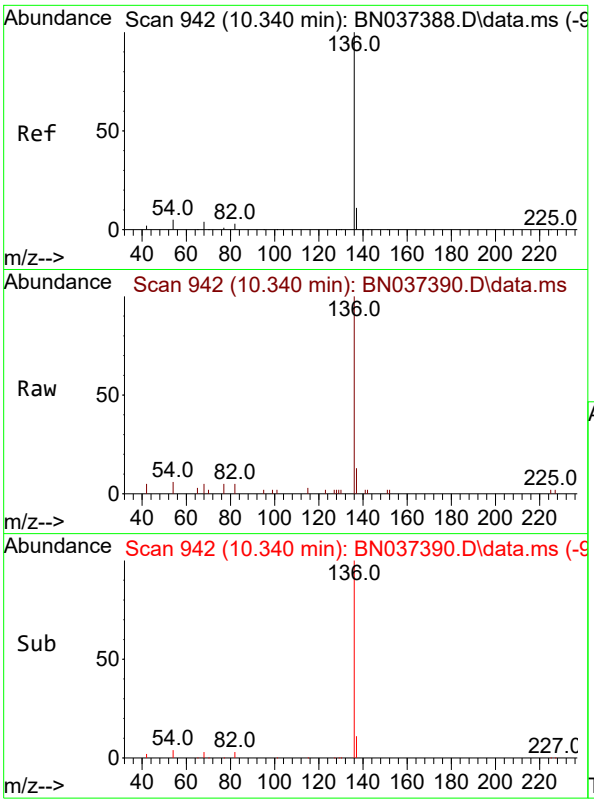


#6
bis(2-Chloroethyl)ether
Concen: 1.721 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 93 Resp: 5373

Ion	Ratio	Lower	Upper
93	100		
63	64.6	49.6	74.4
95	31.7	23.9	35.9



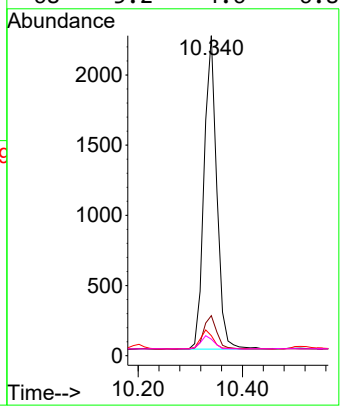


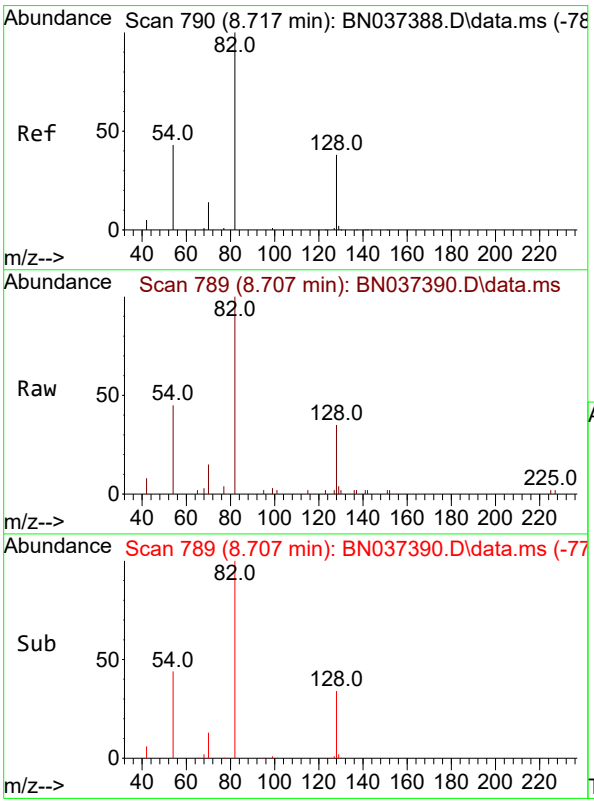
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 3755

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.4	15.6
54	6.3	5.6	8.4
68	5.2	4.6	6.8

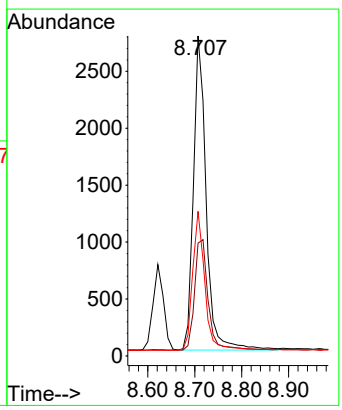


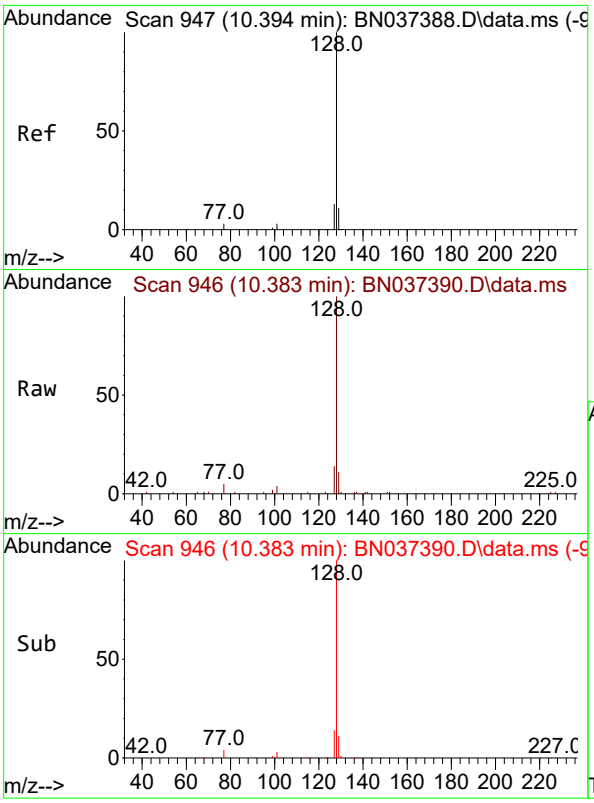


#8
Nitrobenzene-d5
Concen: 1.716 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 82 Resp: 5183

Ion	Ratio	Lower	Upper
82	100		
128	35.3	34.0	51.0
54	45.2	37.7	56.5



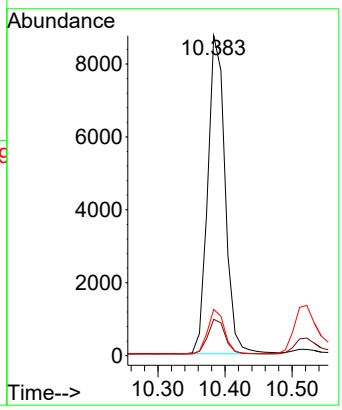


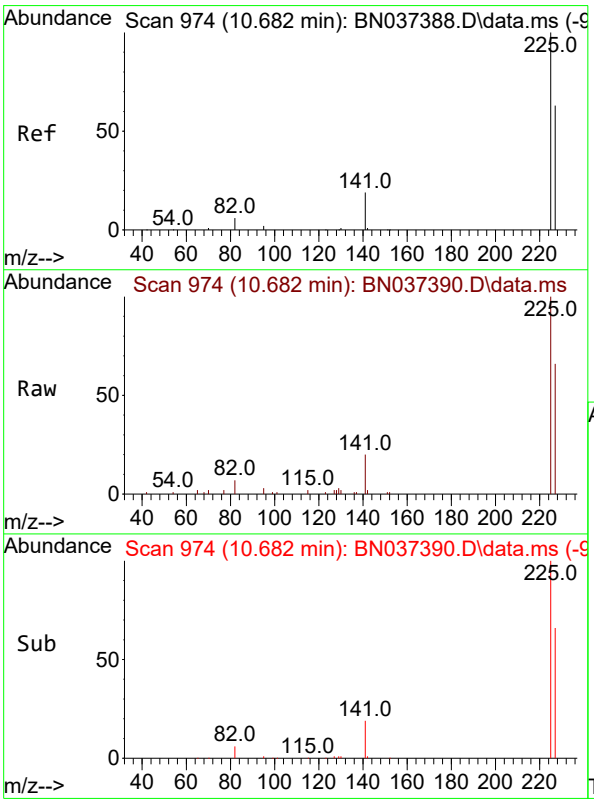
#9
Naphthalene
Concen: 1.629 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 15743

Ion	Ratio	Lower	Upper
128	100		
129	11.4	10.4	15.6
127	14.4	12.2	18.4

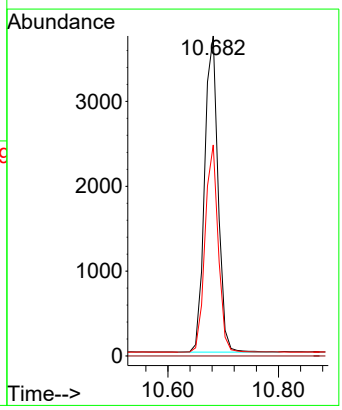


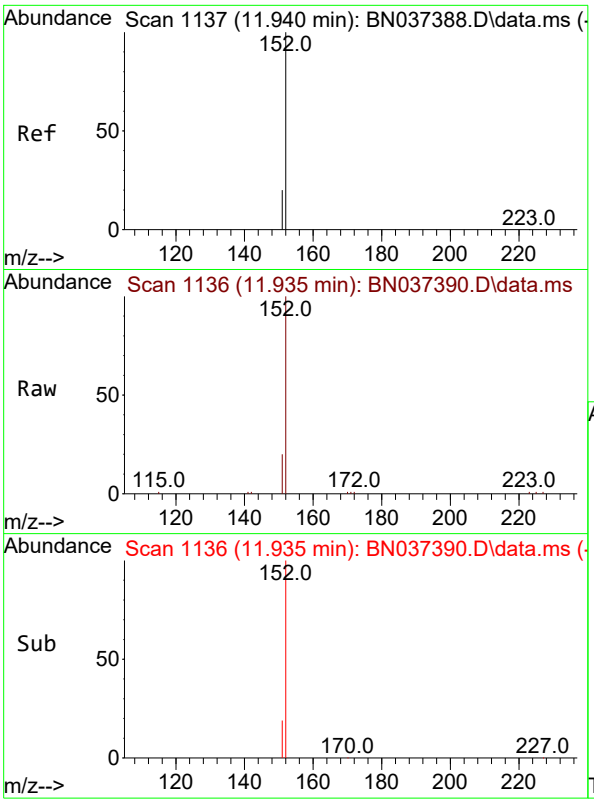


#10
Hexachlorobutadiene
Concen: 1.651 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:225 Resp: 6333

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	49.9	74.9



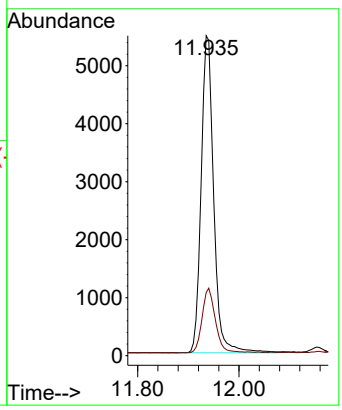


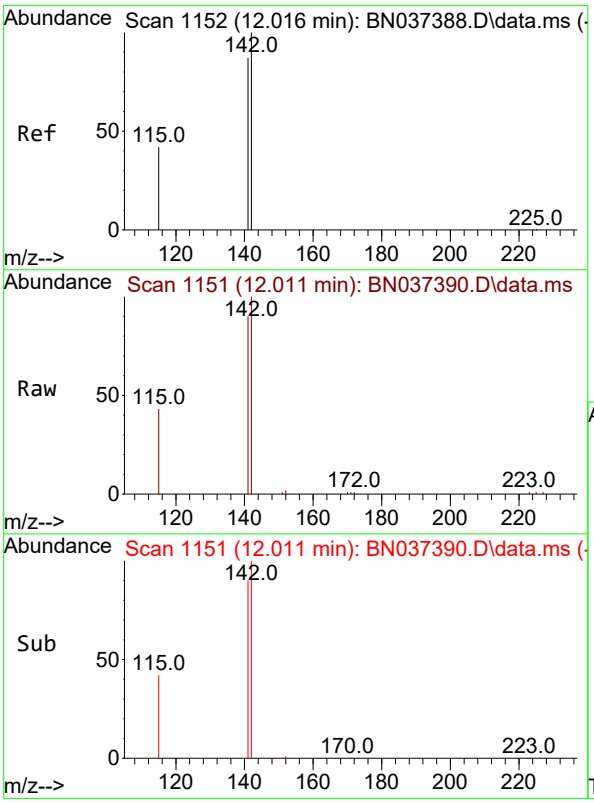
#11
2-Methylnaphthalene-d10
Concen: 1.624 ng
RT: 11.935 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 9434

Ion	Ratio	Lower	Upper
152	100		
151	21.5	18.4	27.6

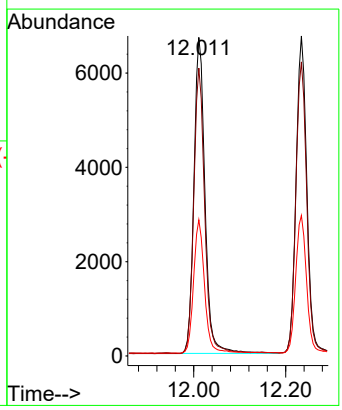


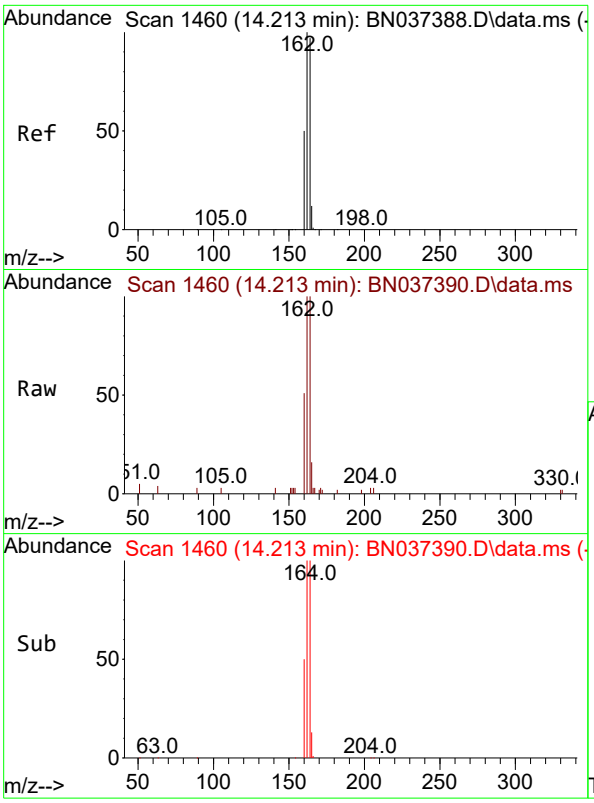


#12
2-Methylnaphthalene
Concen: 1.685 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:142 Resp: 11211

Ion	Ratio	Lower	Upper
142	100		
141	90.4	70.1	105.1
115	42.7	35.8	53.6



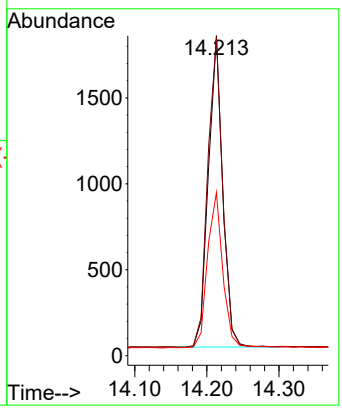


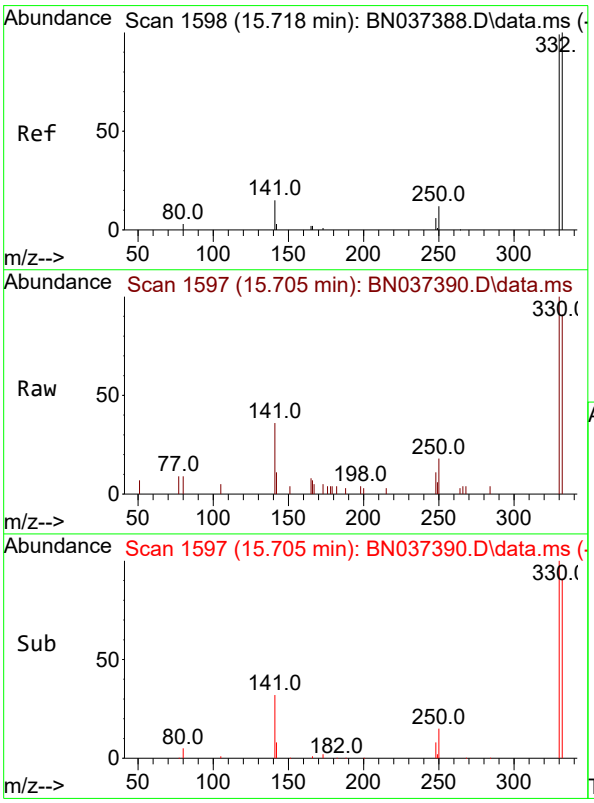
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 2497

Ion	Ratio	Lower	Upper
164	100		
162	99.8	82.6	123.8
160	51.0	42.2	63.2

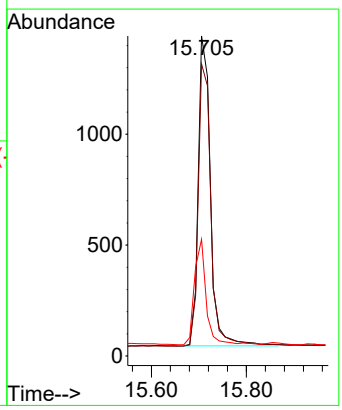


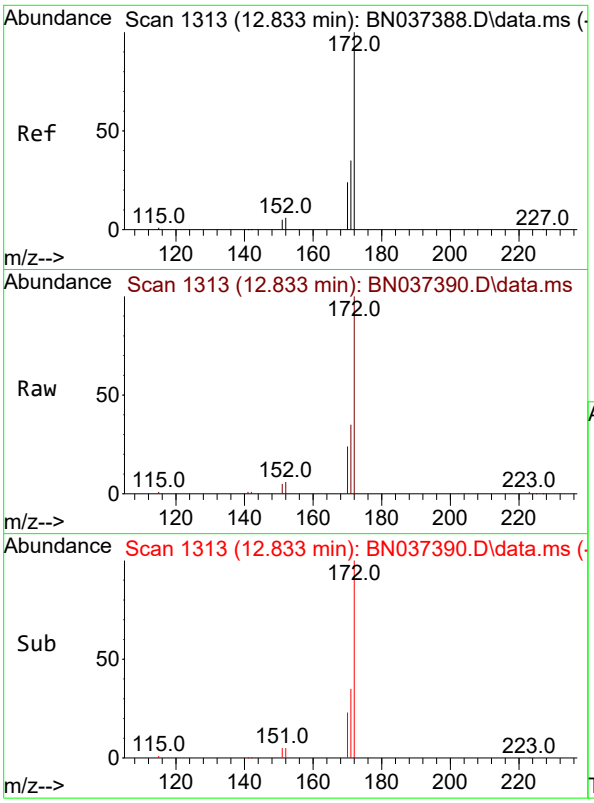


#14
2,4,6-Tribromophenol
Concen: 1.710 ng
RT: 15.705 min Scan# 1597
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:330 Resp: 2504

Ion	Ratio	Lower	Upper
330	100		
332	94.9	77.8	116.8
141	31.8	24.0	36.0



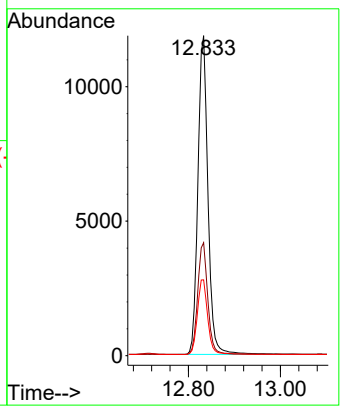


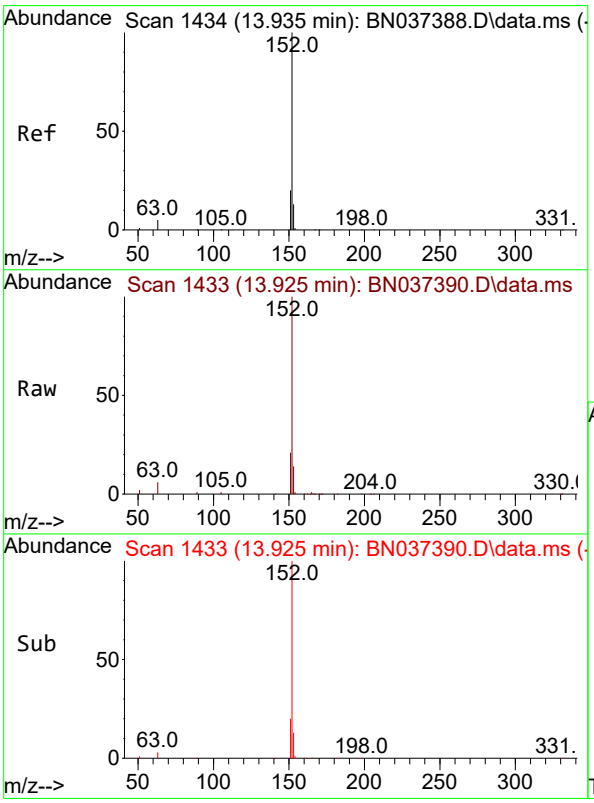
#15
2-Fluorobiphenyl
Concen: 1.666 ng
RT: 12.833 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 17962

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.8	43.2
170	23.7	20.3	30.5

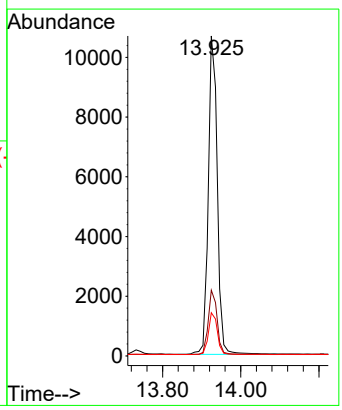


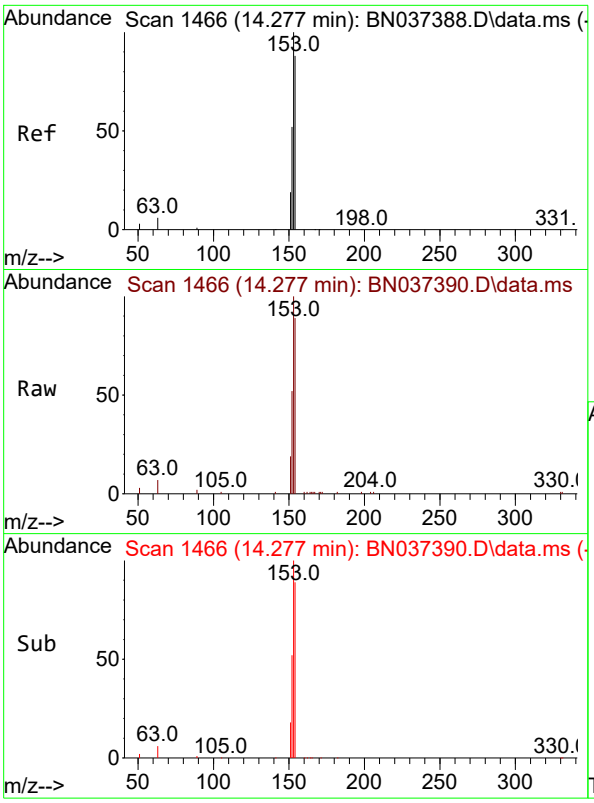


#16
Acenaphthylene
Concen: 1.653 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:152 Resp: 17120

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.1	10.3	15.5



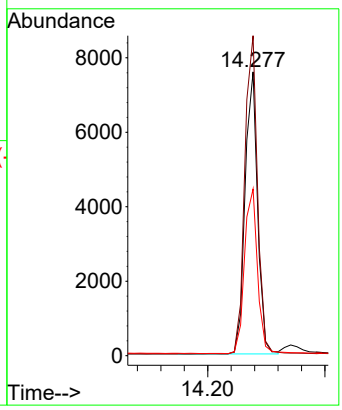


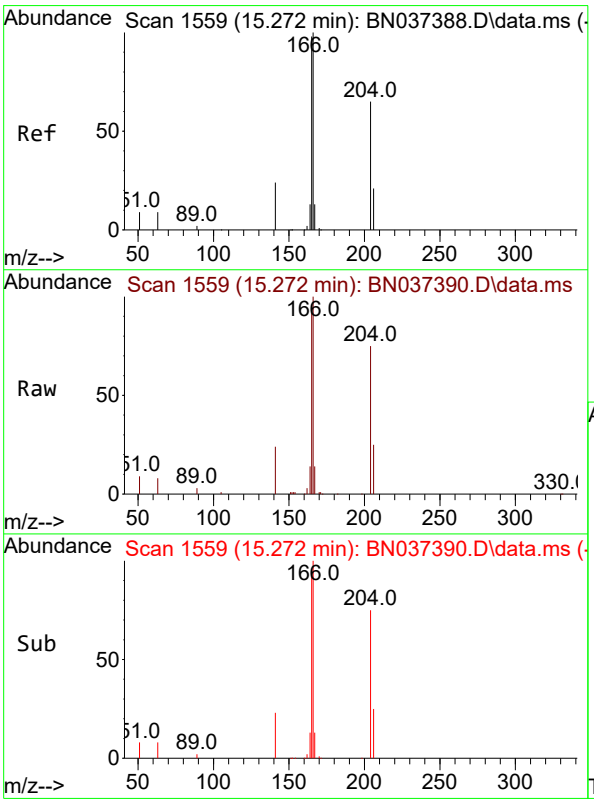
#17
Acenaphthene
Concen: 1.659 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 11218

Ion	Ratio	Lower	Upper
154	100		
153	115.8	94.6	141.8
152	61.2	50.2	75.2

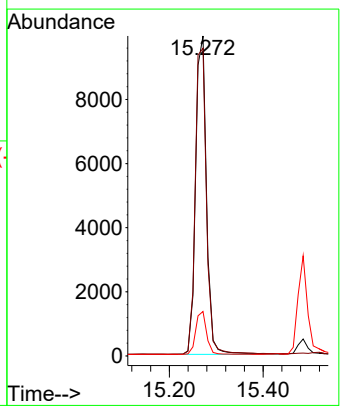


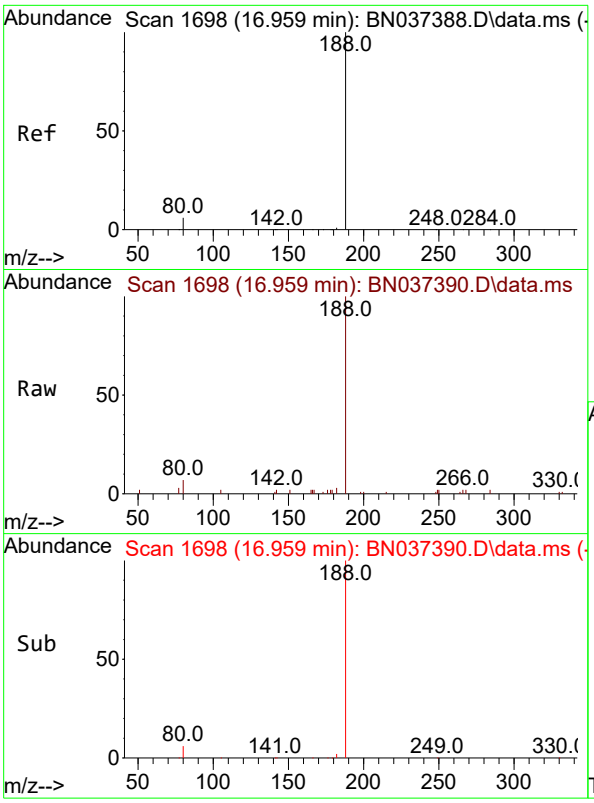


#18
Fluorene
Concen: 1.676 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:166 Resp: 16008

Ion	Ratio	Lower	Upper
166	100		
165	99.2	79.4	119.2
167	13.5	10.6	15.8



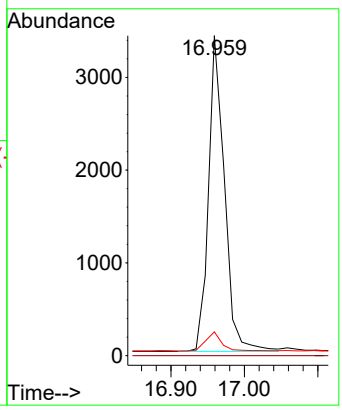


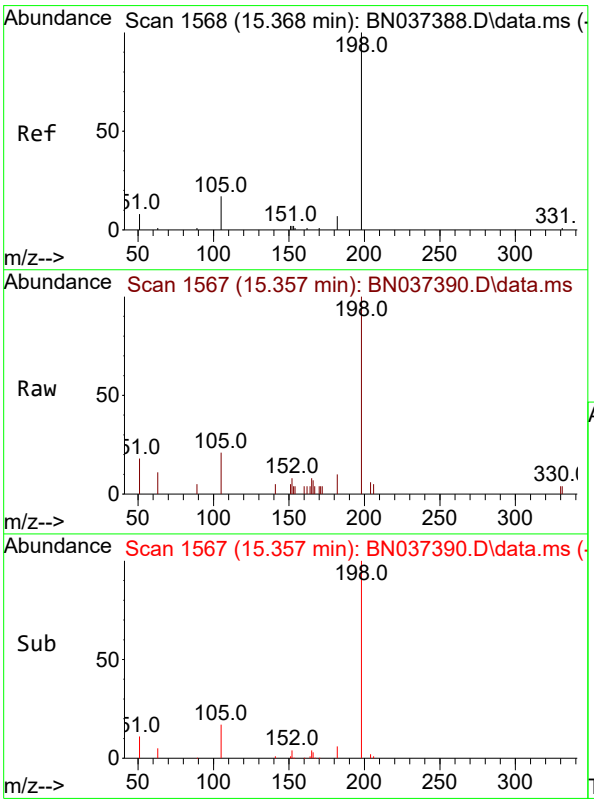
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 5134

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	6.2	9.4

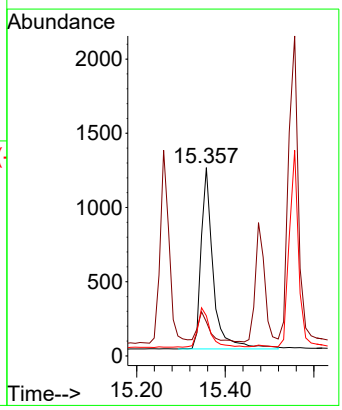


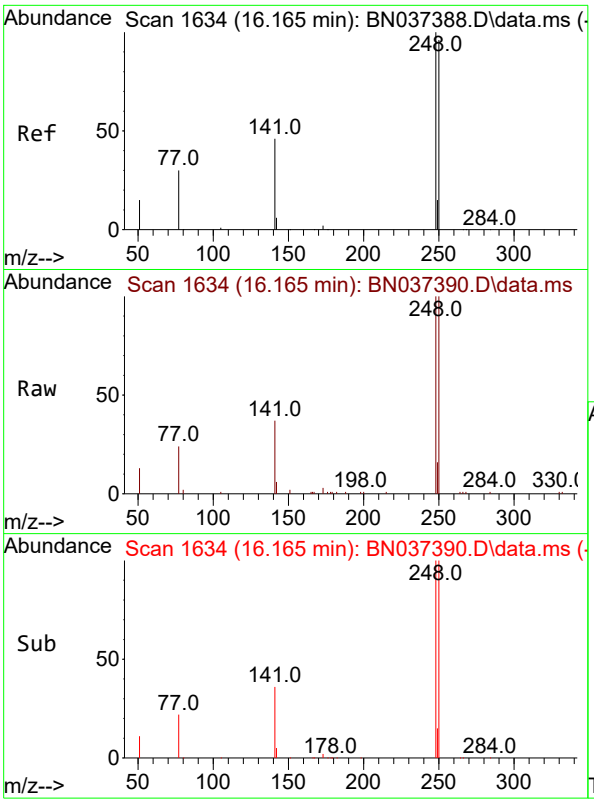


#20
4,6-Dinitro-2-methylphenol
Concen: 1.762 ng
RT: 15.357 min Scan# 1567
Delta R.T. -0.011 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:198 Resp: 2324

Ion	Ratio	Lower	Upper
198	100		
51	18.0	38.8	58.2#
105	21.3	29.8	44.6#



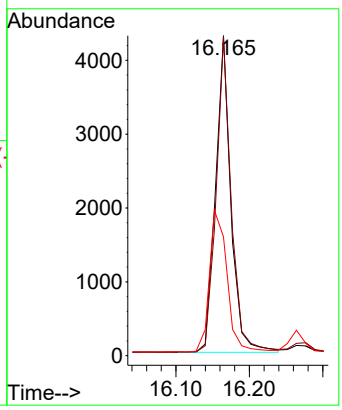


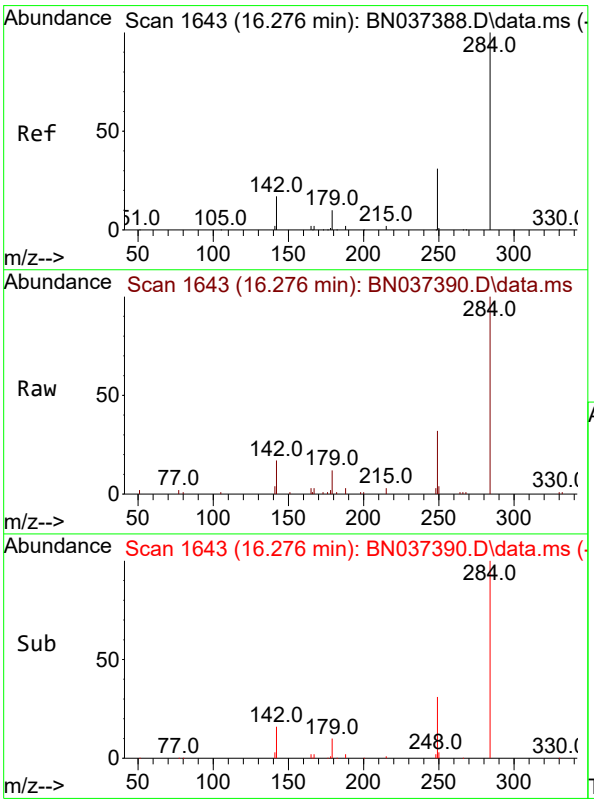
#21
4-Bromophenyl-phenylether
Concen: 1.718 ng
RT: 16.165 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 6221

Ion	Ratio	Lower	Upper
248	100		
250	99.7	77.0	115.4
141	37.2	38.7	58.1#

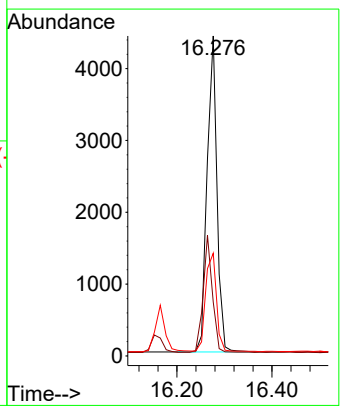


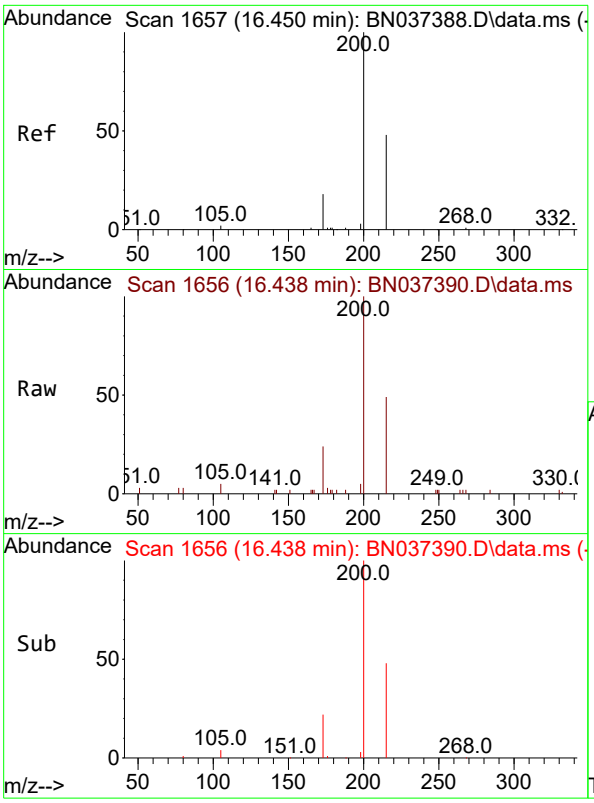


#22
Hexachlorobenzene
Concen: 1.638 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:284 Resp: 6380

Ion	Ratio	Lower	Upper
284	100		
142	34.9	27.2	40.8
249	34.5	26.7	40.1



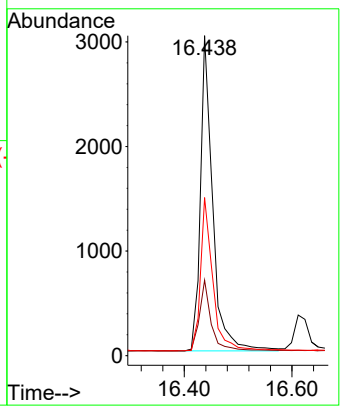


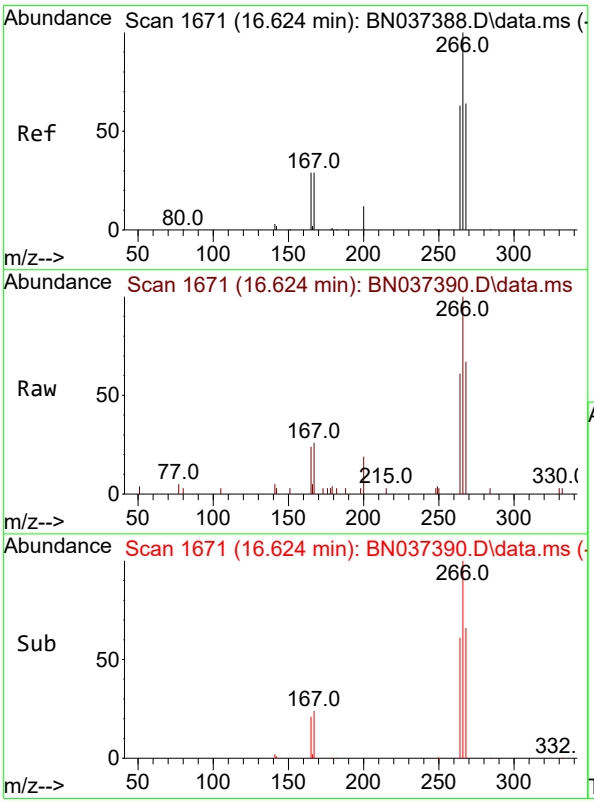
#23
Atrazine
Concen: 1.663 ng
RT: 16.438 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 4771

Ion	Ratio	Lower	Upper
200	100		
173	23.6	19.0	28.6
215	49.4	41.3	61.9

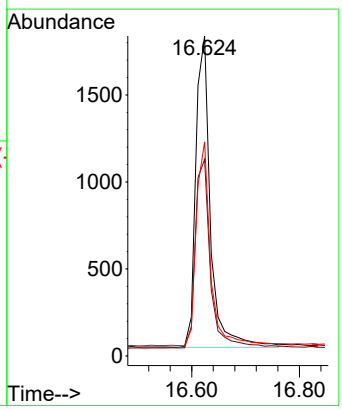


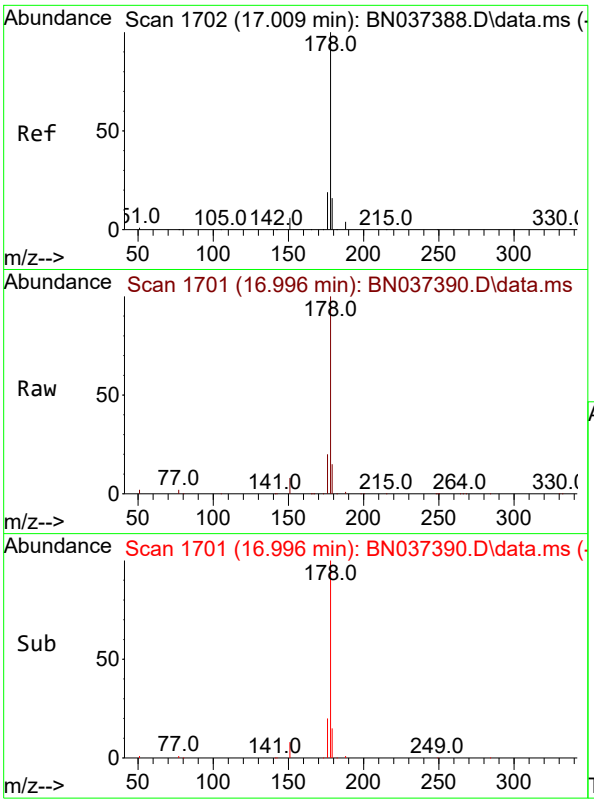


#24
Pentachlorophenol
Concen: 1.612 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:266 Resp: 3391

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.2	73.8
268	63.9	54.2	81.4



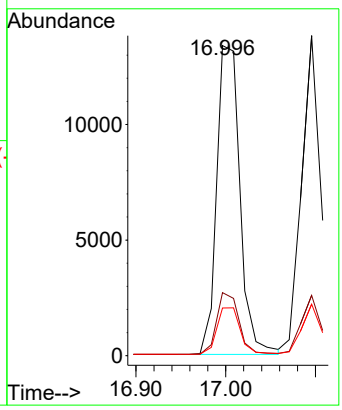


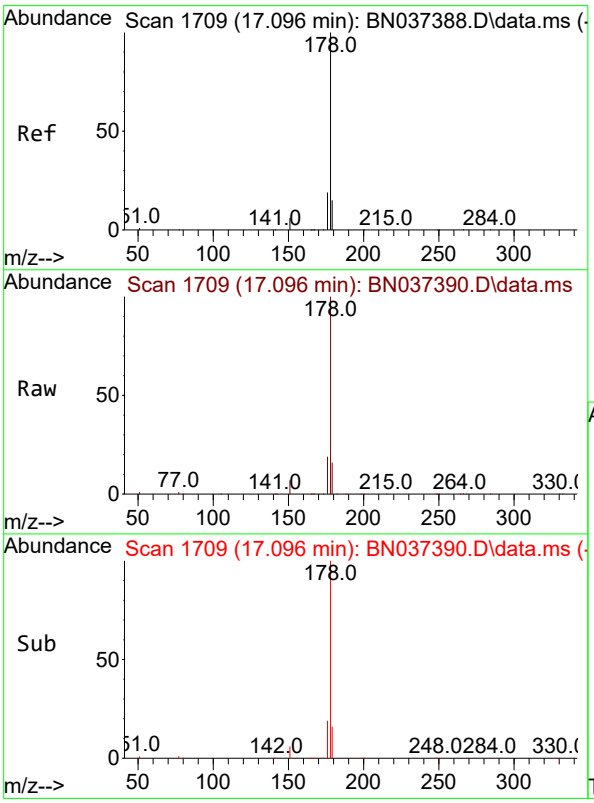
#25
Phenanthrene
Concen: 1.663 ng
RT: 16.996 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 24063

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.6	23.4
179	15.2	12.8	19.2

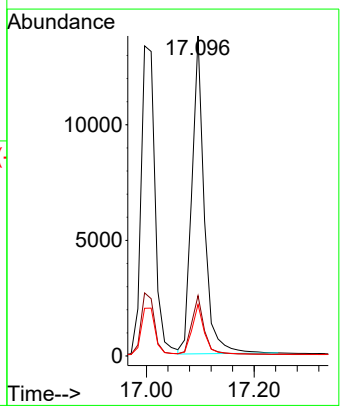


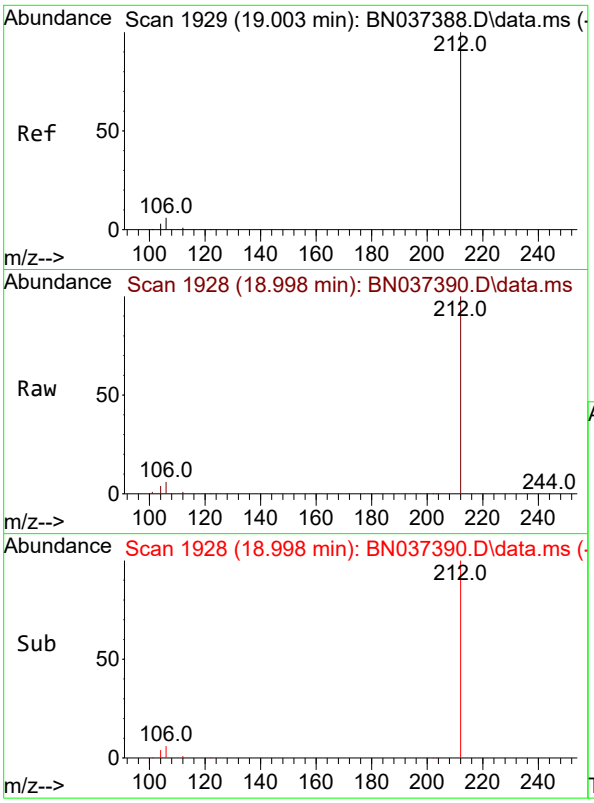


#26
Anthracene
Concen: 1.662 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:178 Resp: 22103

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.7	12.4	18.6



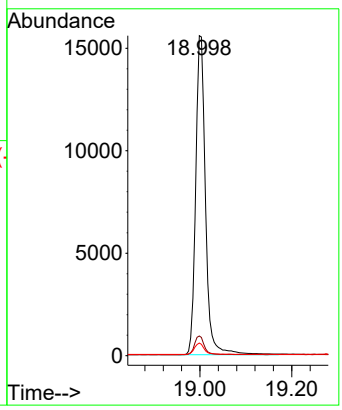


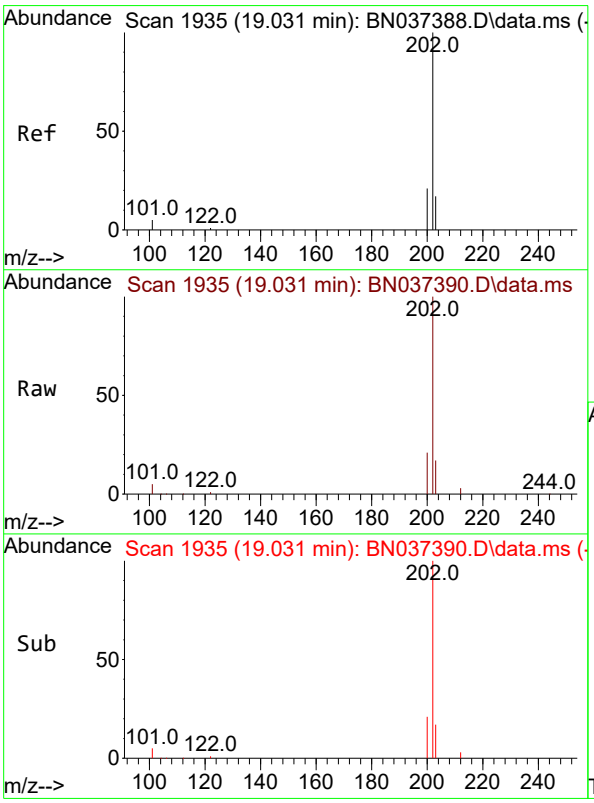
#27
Fluoranthene-d10
Concen: 1.565 ng
RT: 18.998 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 23030

Ion	Ratio	Lower	Upper
212	100		
106	5.8	4.5	6.7
104	3.6	2.7	4.1

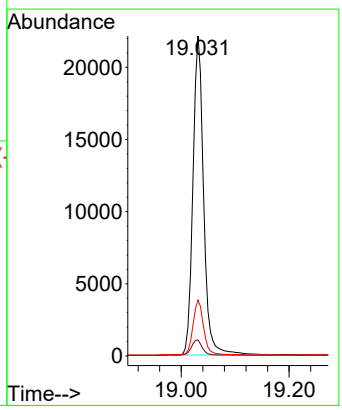


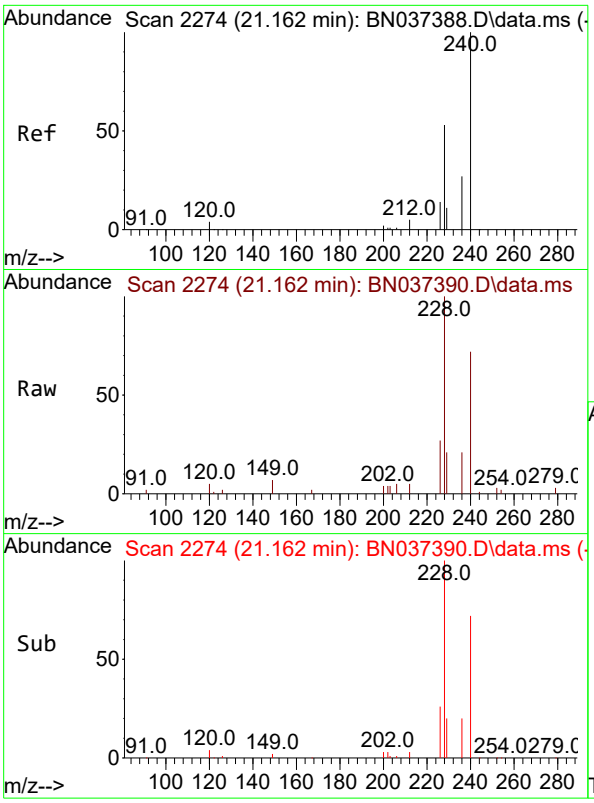


#28
Fluoranthene
Concen: 1.653 ng
RT: 19.031 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:202 Resp: 30535

Ion	Ratio	Lower	Upper
202	100		
101	5.1	3.8	5.6
203	17.1	13.5	20.3



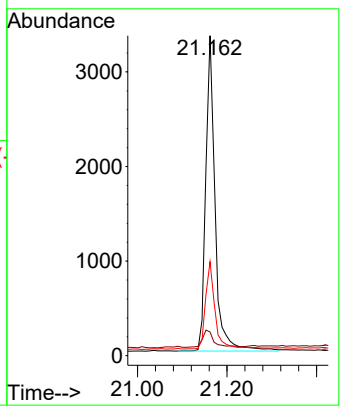


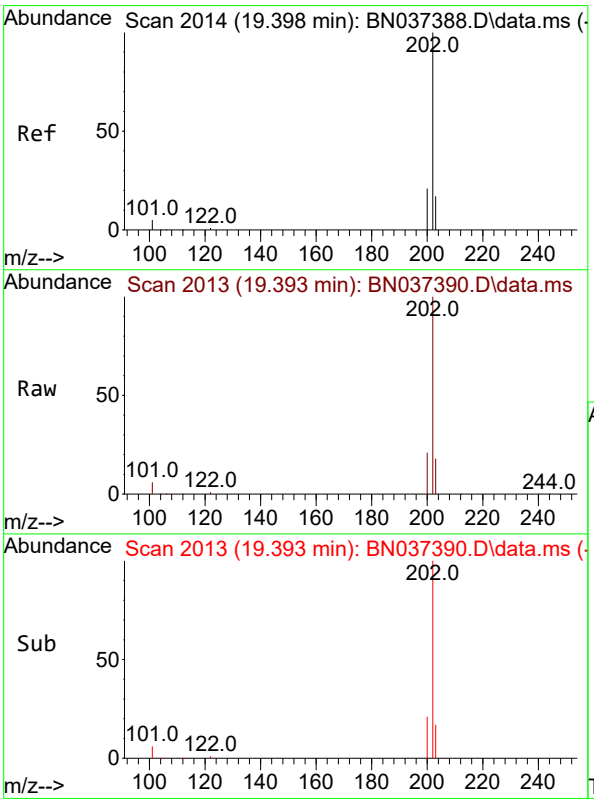
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 4846

Ion	Ratio	Lower	Upper
240	100		
120	7.4	5.3	7.9
236	29.4	22.7	34.1

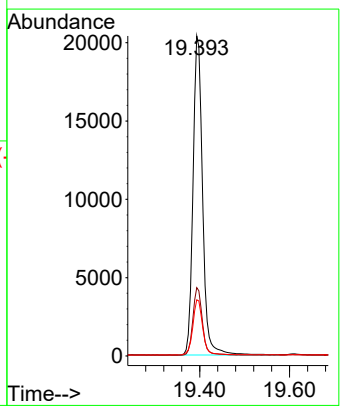


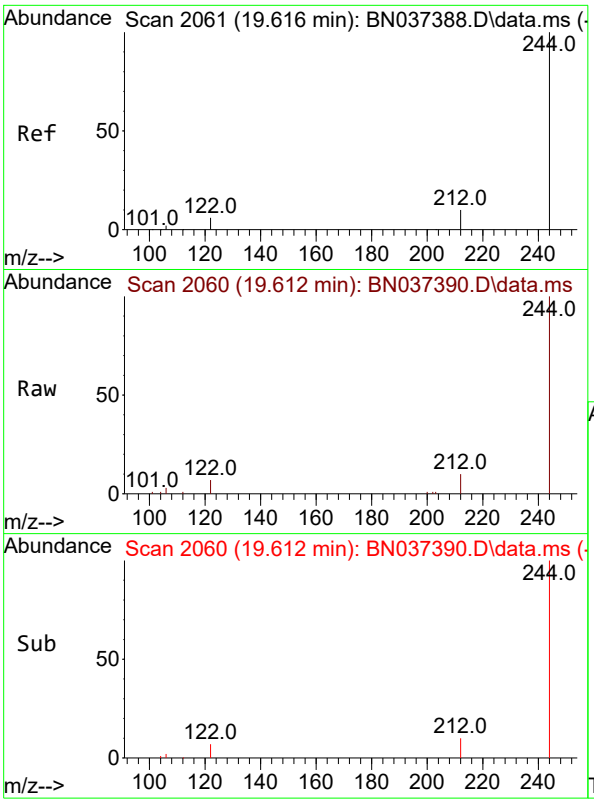


#30
Pyrene
Concen: 1.650 ng
RT: 19.393 min Scan# 2013
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:202 Resp: 30249

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.5	24.7
203	17.7	14.2	21.2



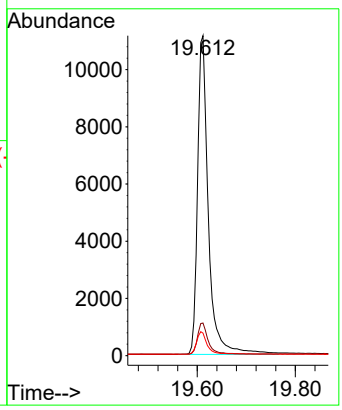


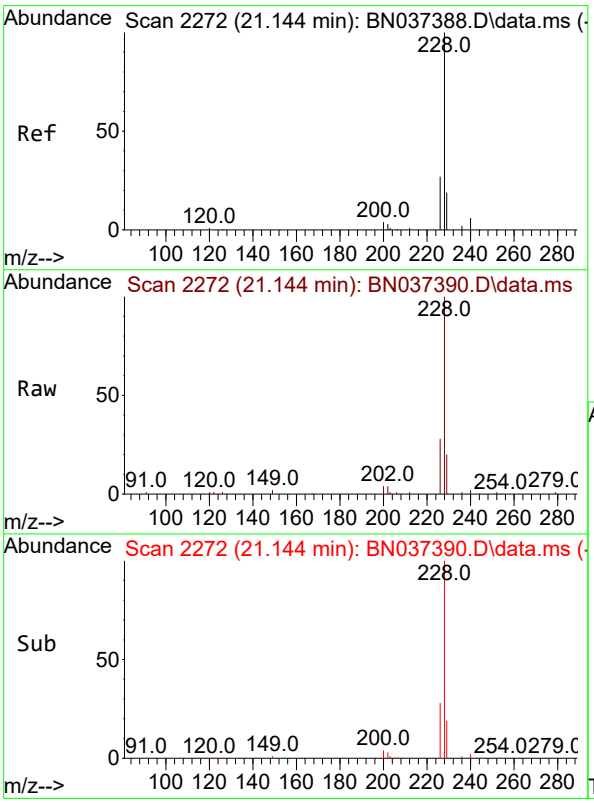
#31
Terphenyl-d14
Concen: 1.647 ng
RT: 19.612 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 17013

Ion	Ratio	Lower	Upper
244	100		
212	10.2	9.1	13.7
122	7.1	6.3	9.5

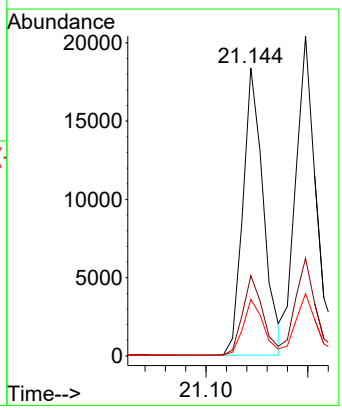


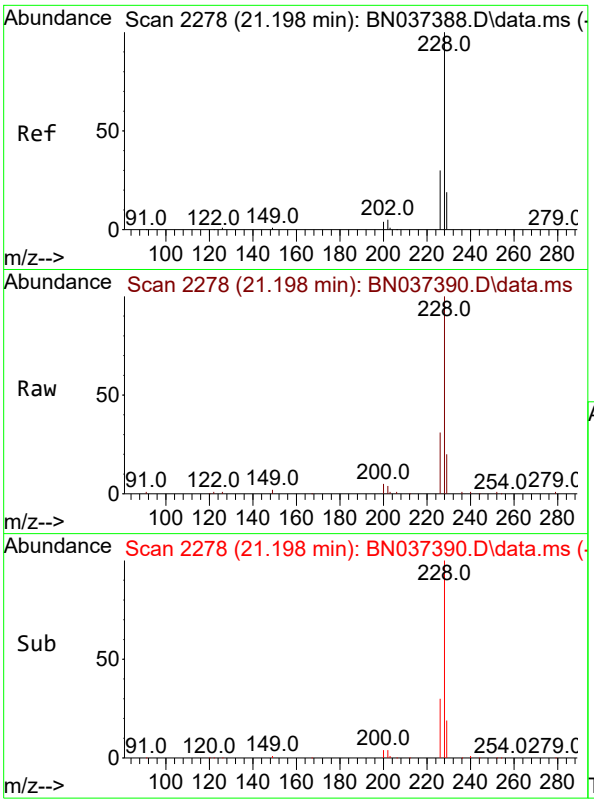


#32
Benzo(a)anthracene
Concen: 1.678 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:228 Resp: 25546

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	34.0
229	19.6	16.2	24.2



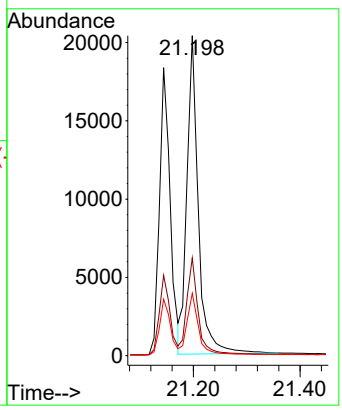


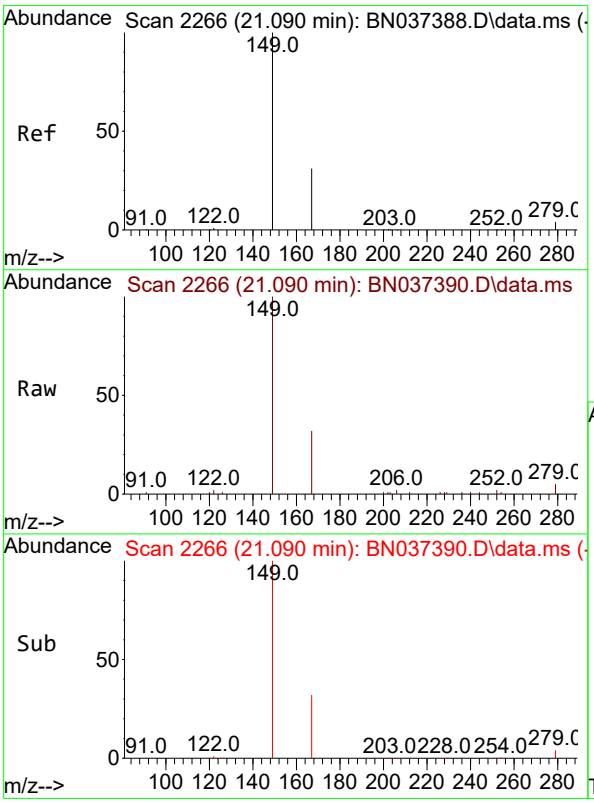
#33
Chrysene
Concen: 1.598 ng
RT: 21.198 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 30118

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.5	36.7
229	19.5	16.1	24.1

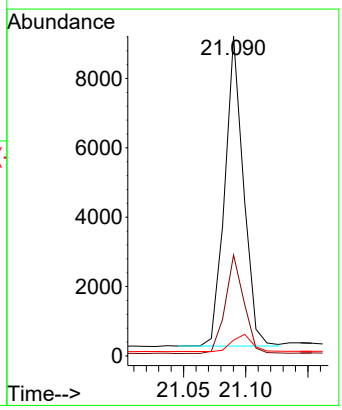


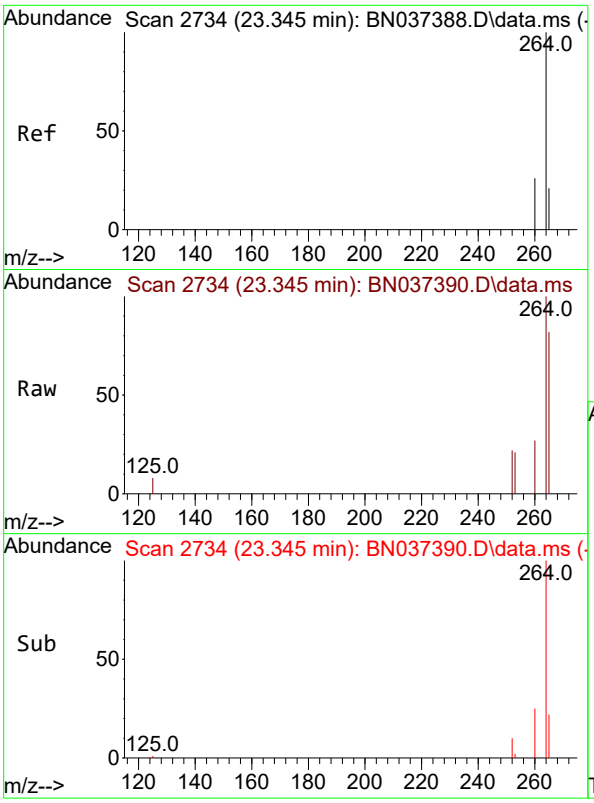


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.548 ng
RT: 21.090 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:149 Resp: 9332

Ion	Ratio	Lower	Upper
149	100		
167	31.7	24.8	37.2
279	6.3	5.0	7.6



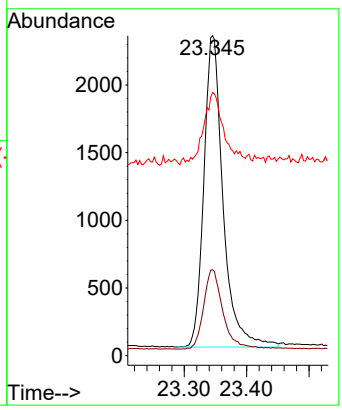


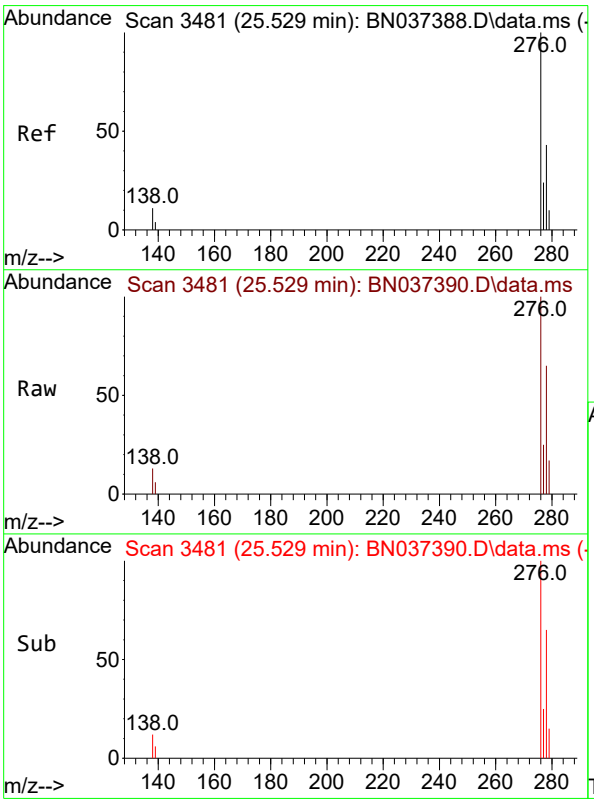
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 4921

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.0
265	82.2	56.2	84.4

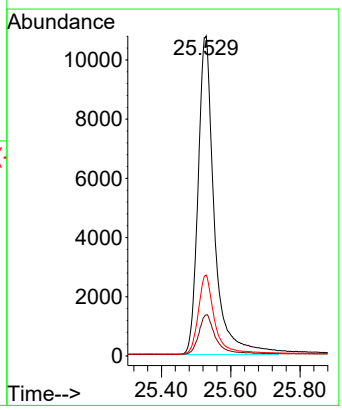


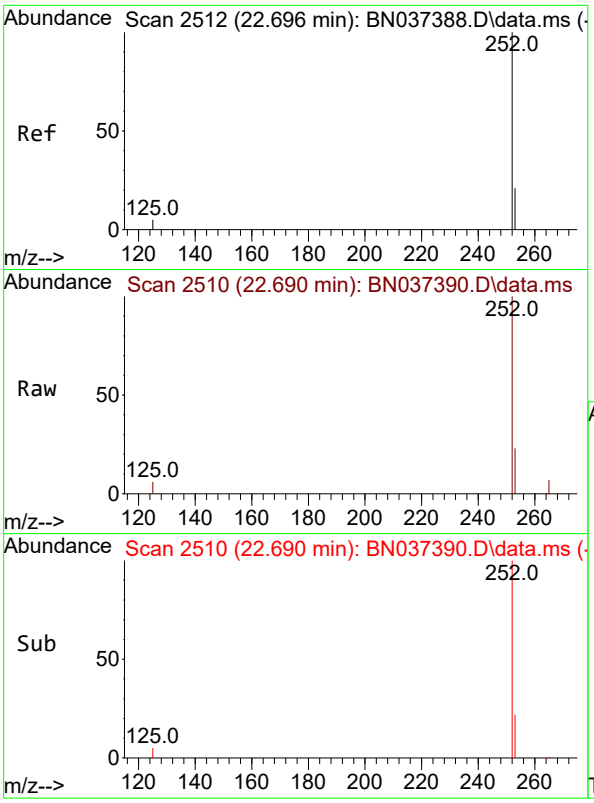


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.694 ng
RT: 25.529 min Scan# 3481
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:276 Resp: 35151

Ion	Ratio	Lower	Upper
276	100		
138	12.7	8.5	12.7
277	24.5	19.7	29.5



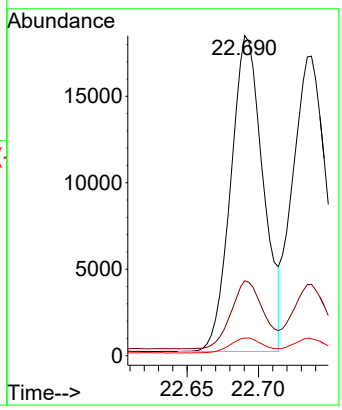


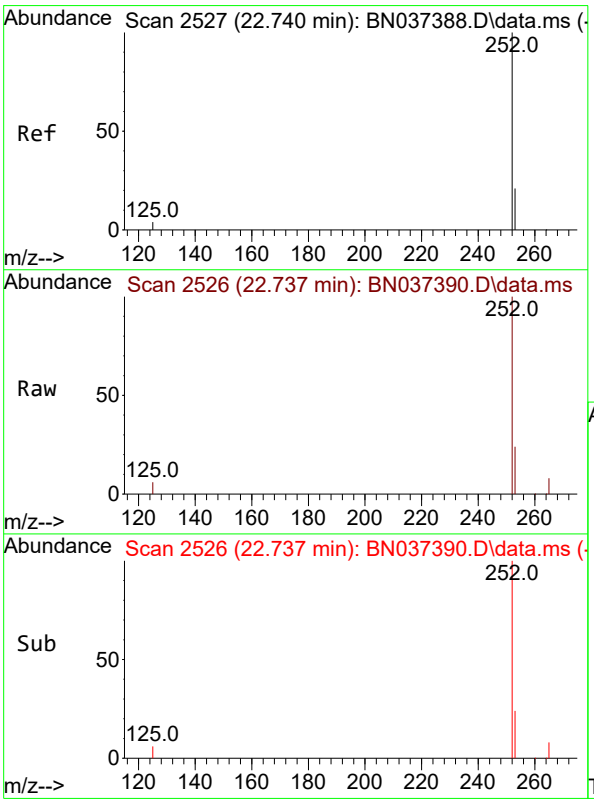
#37
Benzo(b)fluoranthene
Concen: 1.661 ng
RT: 22.690 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 28814

Ion	Ratio	Lower	Upper
252	100		
253	23.4	22.8	34.2
125	5.5	6.2	9.4#

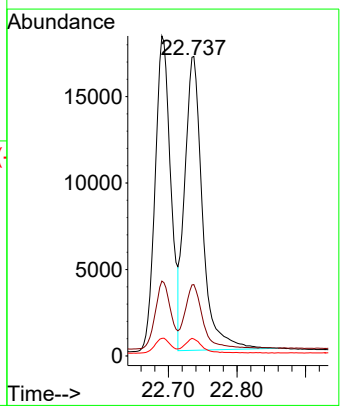


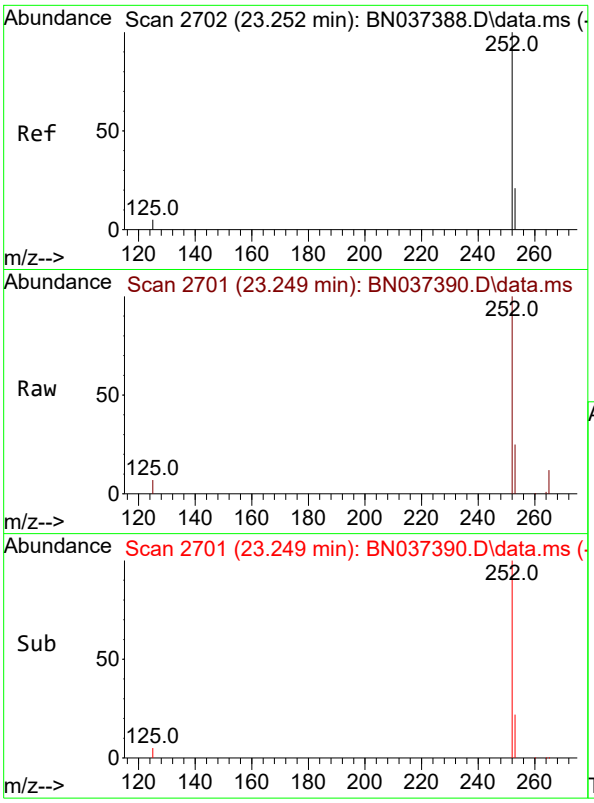


#38
Benzo(k)fluoranthene
Concen: 1.648 ng
RT: 22.737 min Scan# 2526
Delta R.T. -0.003 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:252 Resp: 30557

Ion	Ratio	Lower	Upper
252	100		
253	23.8	23.2	34.8
125	5.7	6.0	9.0#



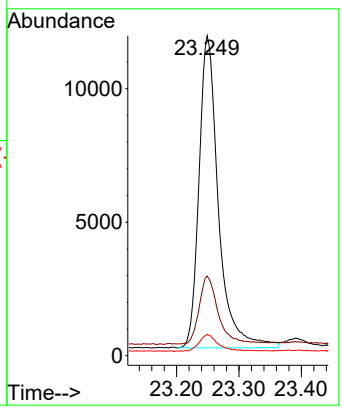


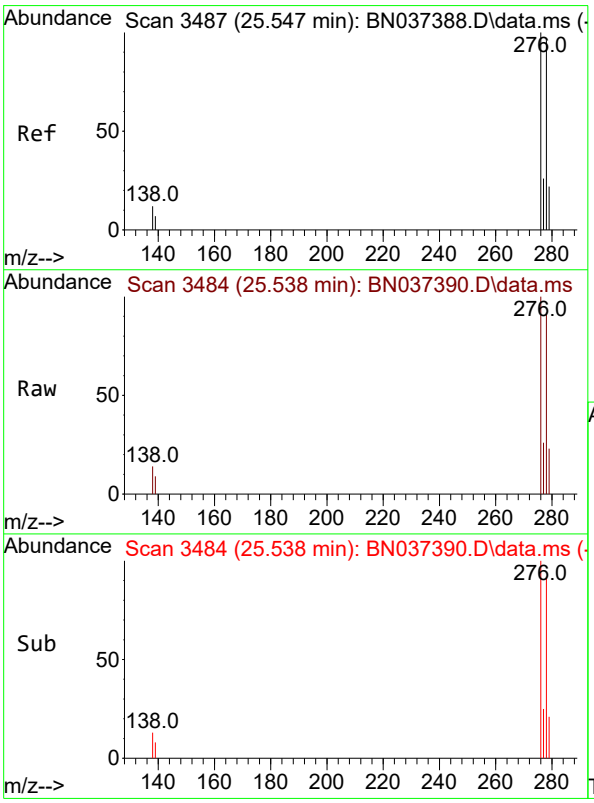
#39
Benzo(a)pyrene
Concen: 1.640 ng
RT: 23.249 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 25315

Ion	Ratio	Lower	Upper
252	100		
253	24.9	25.6	38.4#
125	6.6	7.5	11.3#

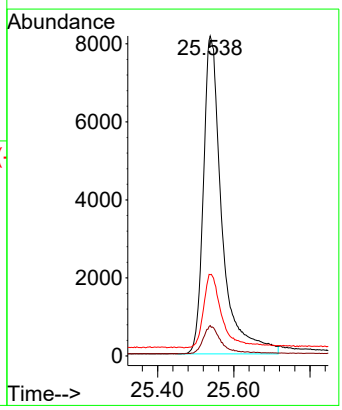


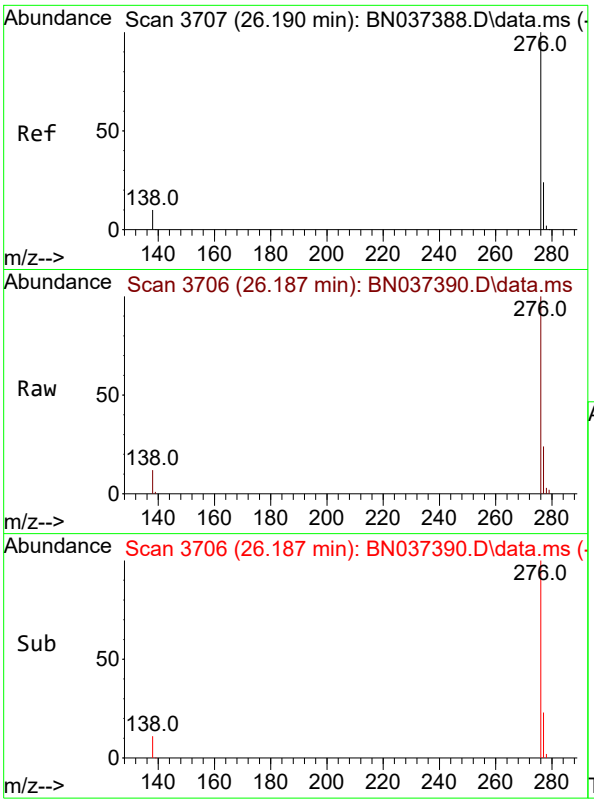


#40
Dibenzo(a,h)anthracene
Concen: 1.722 ng
RT: 25.538 min Scan# 3484
Delta R.T. -0.009 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:278 Resp: 27440

Ion	Ratio	Lower	Upper
278	100		
139	9.5	8.5	12.7
279	25.4	27.5	41.3#



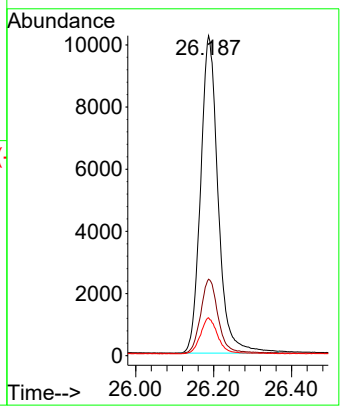


#41
Benzo(g,h,i)perylene
Concen: 1.671 ng
RT: 26.187 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 31821

Ion	Ratio	Lower	Upper
276	100		
277	23.9	21.0	31.4
138	11.8	9.6	14.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037391.D
Acq On : 26 Jun 2025 13:41
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 26 14:45:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.560	152	1913	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4102	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	2755	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	5771	0.400	ng		0.00
29) Chrysene-d12	21.162	240	5566	0.400	ng		0.00
35) Perylene-d12	23.348	264	5442	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	11831	3.209	ng		0.00
5) Phenol-d6	6.744	99	13561	3.547	ng		0.00
8) Nitrobenzene-d5	8.707	82	11574	3.508	ng		-0.01
11) 2-Methylnaphthalene-d10	11.935	152	21511	3.390	ng		0.00
14) 2,4,6-Tribromophenol	15.705	330	5638	3.489	ng		-0.01
15) 2-Fluorobiphenyl	12.833	172	39687	3.337	ng		0.00
27) Fluoranthene-d10	18.998	212	53268	3.221	ng		0.00
31) Terphenyl-d14	19.607	244	39701	3.345	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.097	88	5559	3.243	ng		96
3) n-Nitrosodimethylamine	3.408	42	5726	3.196	ng	#	93
6) bis(2-Chloroethyl)ether	6.997	93	11865	3.490	ng		96
9) Naphthalene	10.383	128	34450	3.263	ng		96
10) Hexachlorobutadiene	10.682	225	13273	3.167	ng	#	98
12) 2-Methylnaphthalene	12.011	142	25164	3.461	ng		97
16) Acenaphthylene	13.924	152	38375	3.359	ng		100
17) Acenaphthene	14.277	154	25275	3.388	ng		97
18) Fluorene	15.271	166	36211	3.437	ng		100
20) 4,6-Dinitro-2-methylph...	15.357	198	5478	3.696	ng	#	55
21) 4-Bromophenyl-phenylether	16.165	248	13953	3.427	ng	#	91
22) Hexachlorobenzene	16.276	284	13881	3.171	ng		98
23) Atrazine	16.438	200	11170	3.463	ng		96
24) Pentachlorophenol	16.624	266	7774	3.288	ng		97
25) Phenanthrene	16.996	178	54938	3.379	ng		99
26) Anthracene	17.095	178	51719	3.460	ng		100
28) Fluoranthene	19.031	202	69575	3.351	ng		99
30) Pyrene	19.393	202	69001	3.276	ng		99
32) Benzo(a)anthracene	21.144	228	60725	3.472	ng		98
33) Chrysene	21.198	228	67241	3.106	ng		99
34) Bis(2-ethylhexyl)phtha...	21.090	149	21735	3.139	ng		100
36) Indeno(1,2,3-cd)pyrene	25.526	276	80692	3.517	ng	#	97
37) Benzo(b)fluoranthene	22.693	252	65471	3.412	ng	#	90
38) Benzo(k)fluoranthene	22.734	252	70234	3.425	ng	#	89
39) Benzo(a)pyrene	23.252	252	58393	3.422	ng	#	86
40) Dibenzo(a,h)anthracene	25.541	278	64655	3.668	ng	#	86
41) Benzo(g,h,i)perylene	26.187	276	72186	3.427	ng		96

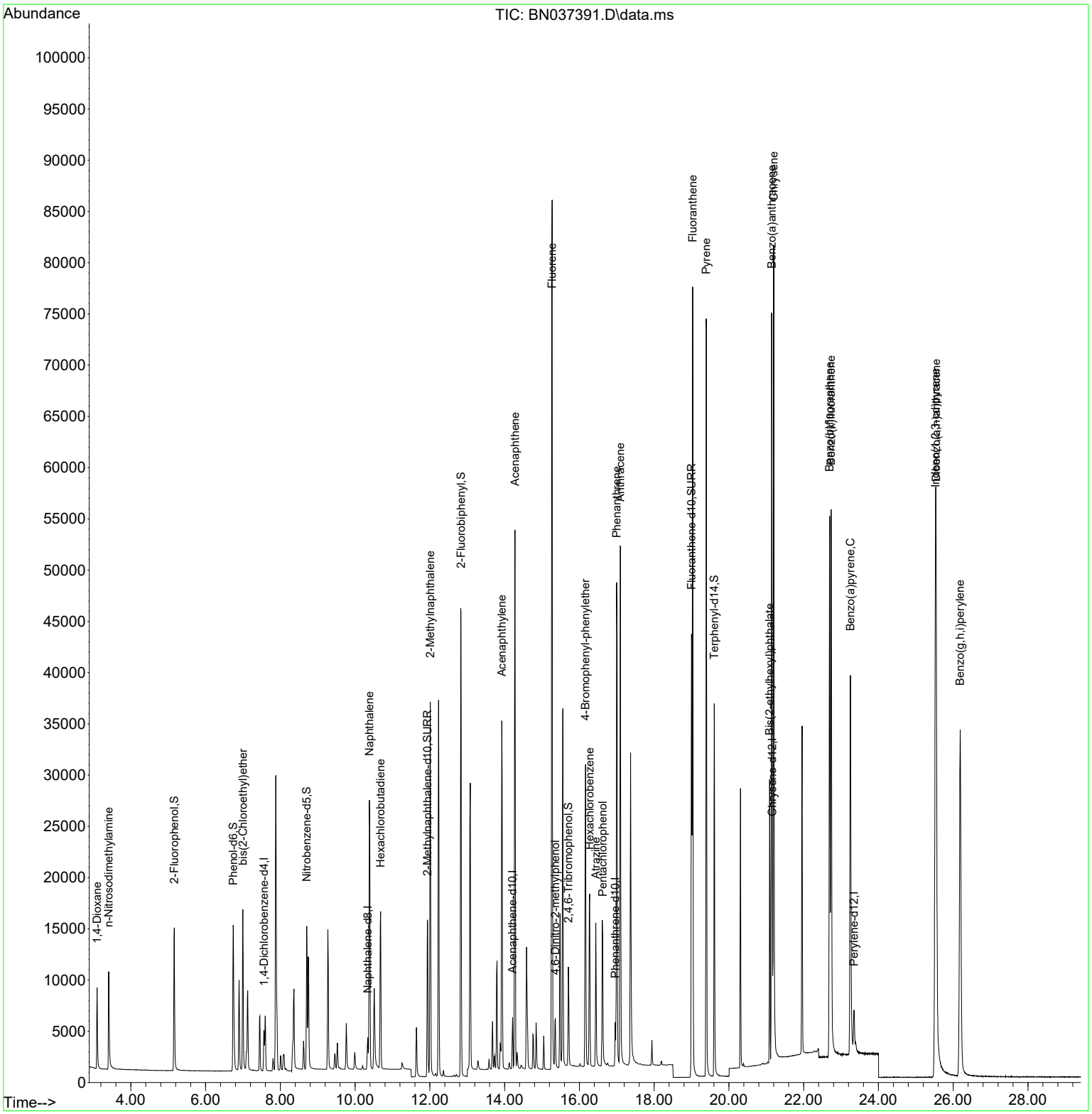
(#) = qualifier out of range (m) = manual integration (+) = signals summed

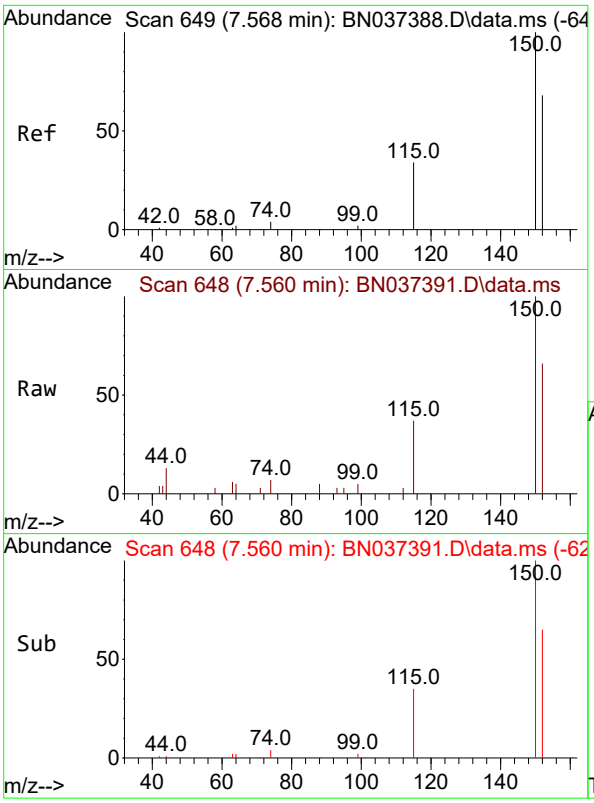
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037391.D
Acq On : 26 Jun 2025 13:41
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 26 14:45:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration



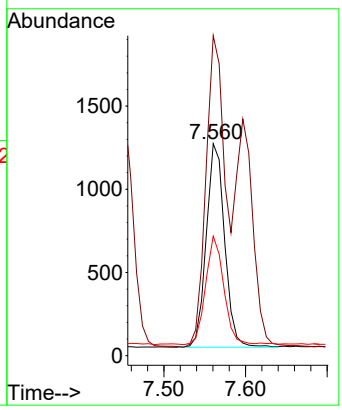


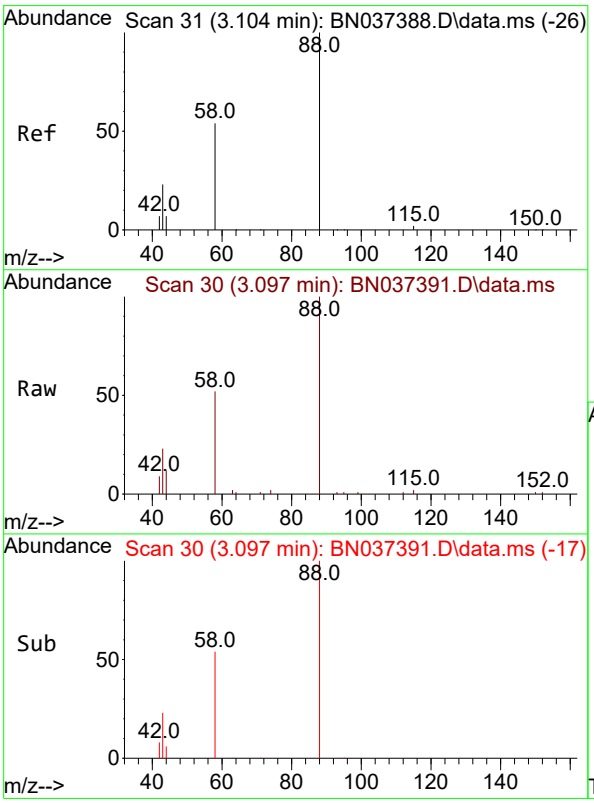
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 1913

Ion	Ratio	Lower	Upper
152	100		
150	150.9	116.2	174.2
115	56.4	42.9	64.3

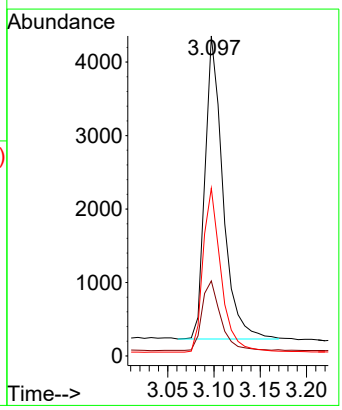


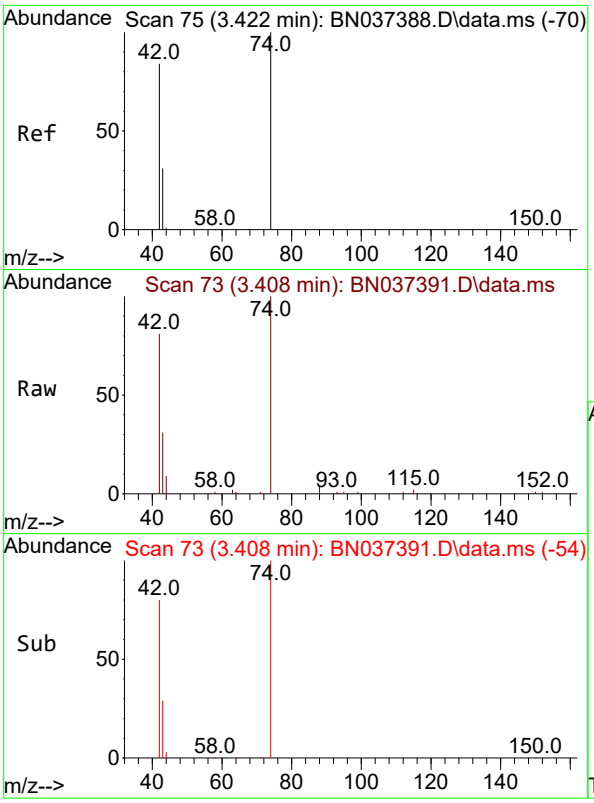


#2
1,4-Dioxane
Concen: 3.243 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion: 88 Resp: 5559

Ion	Ratio	Lower	Upper
88	100		
43	24.1	21.6	32.4
58	54.5	45.9	68.9



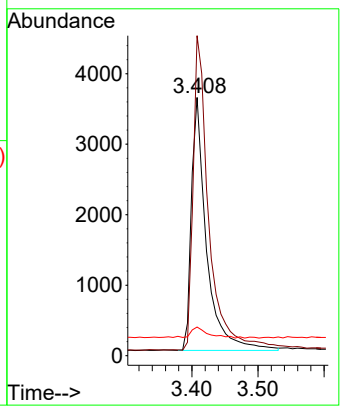


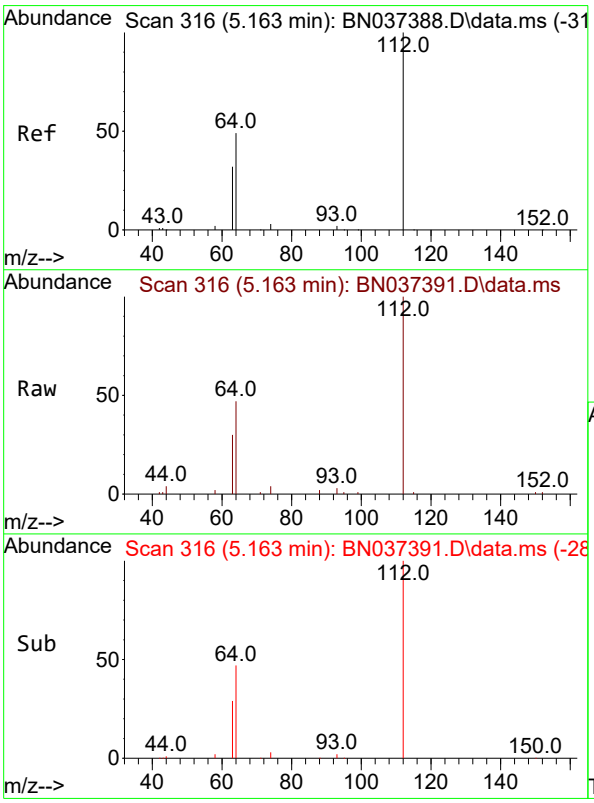
#3
n-Nitrosodimethylamine
Concen: 3.196 ng
RT: 3.408 min Scan# 7
Delta R.T. -0.014 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 5726

Ion	Ratio	Lower	Upper
42	100		
74	129.6	97.8	146.8
44	5.2	8.7	13.1#

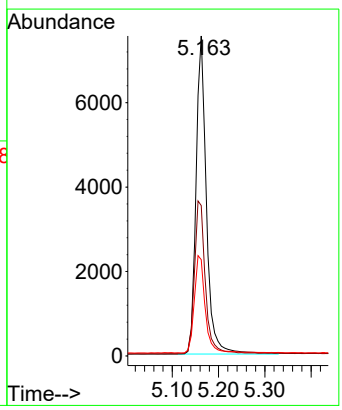


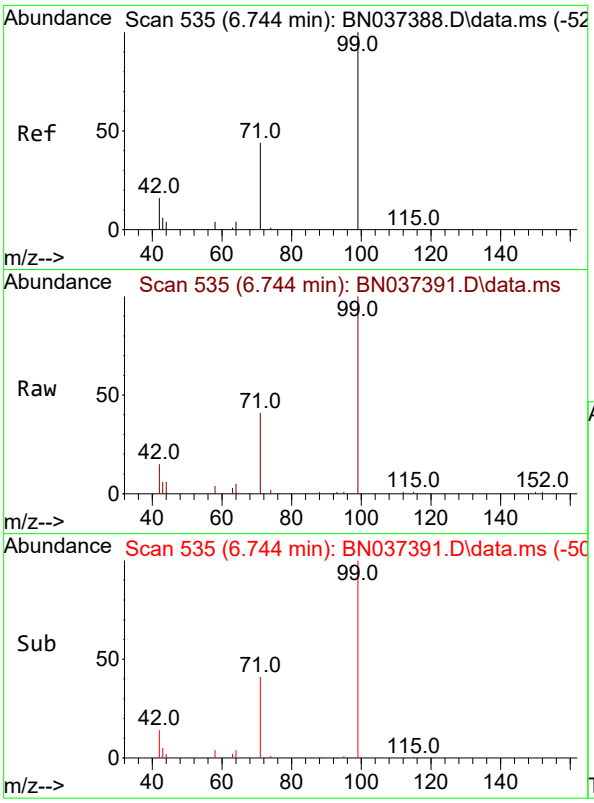


#4
2-Fluorophenol
Concen: 3.209 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:112 Resp: 11831

Ion	Ratio	Lower	Upper
112	100		
64	50.5	40.3	60.5
63	31.8	26.1	39.1



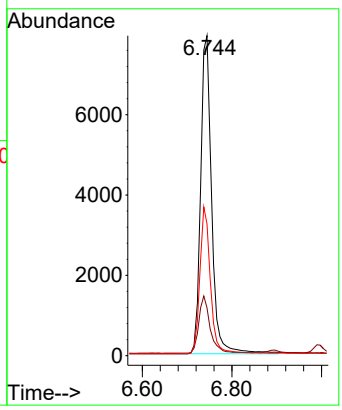


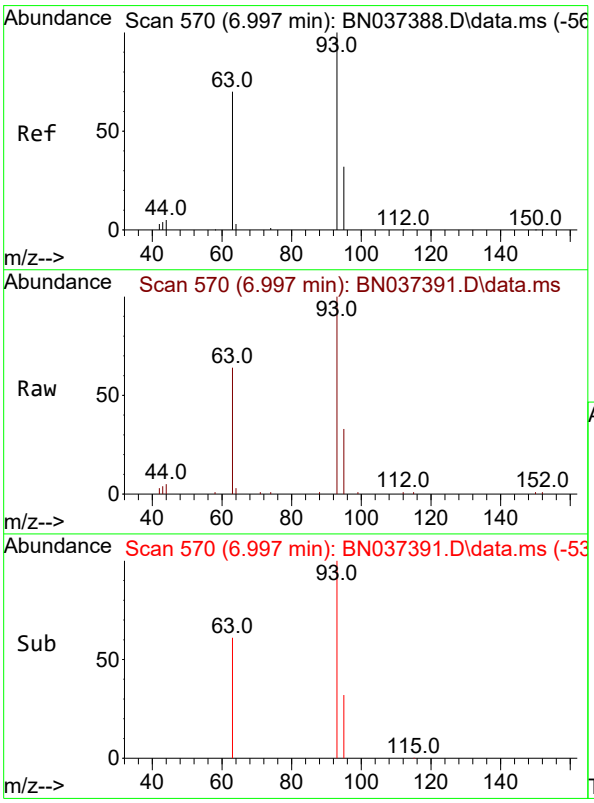
#5
Phenol-d6
Concen: 3.547 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 13561

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.6	23.4
71	44.5	35.8	53.8

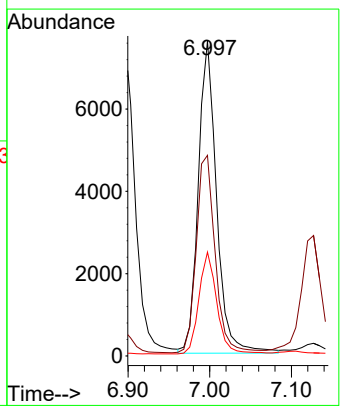


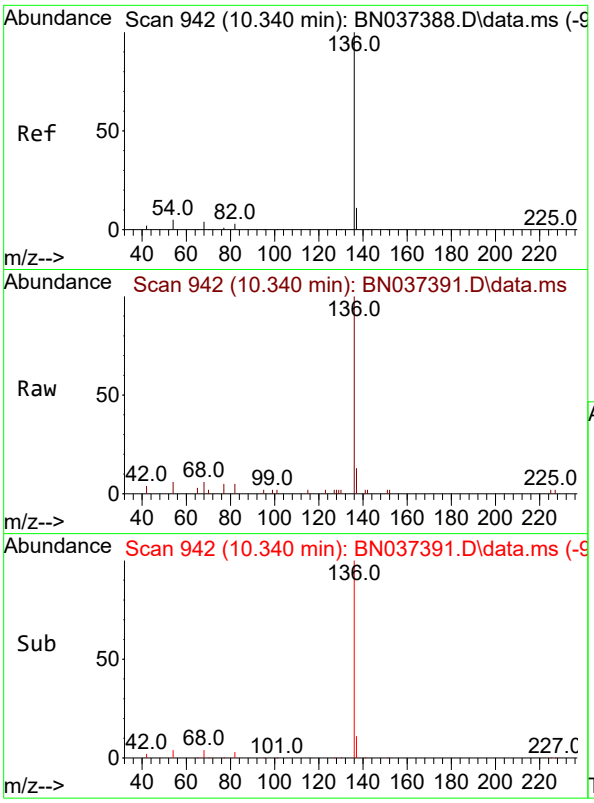


#6
bis(2-Chloroethyl)ether
Concen: 3.490 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion: 93 Resp: 11865

Ion	Ratio	Lower	Upper
93	100		
63	65.4	49.6	74.4
95	31.9	23.9	35.9



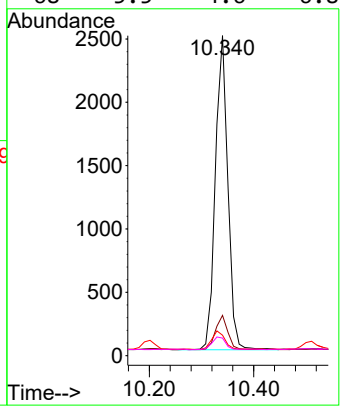


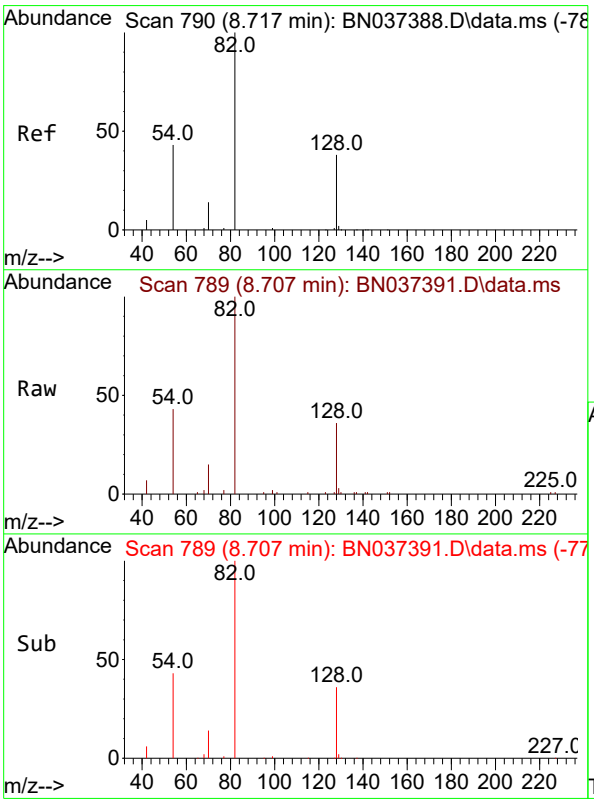
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 4102

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.4	15.6
54	6.4	5.6	8.4
68	5.5	4.6	6.8

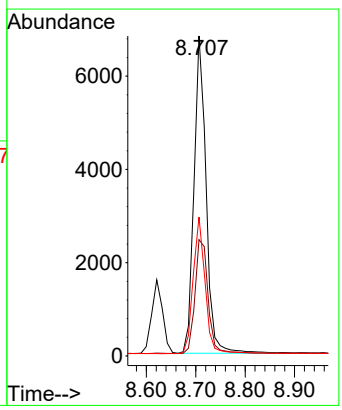


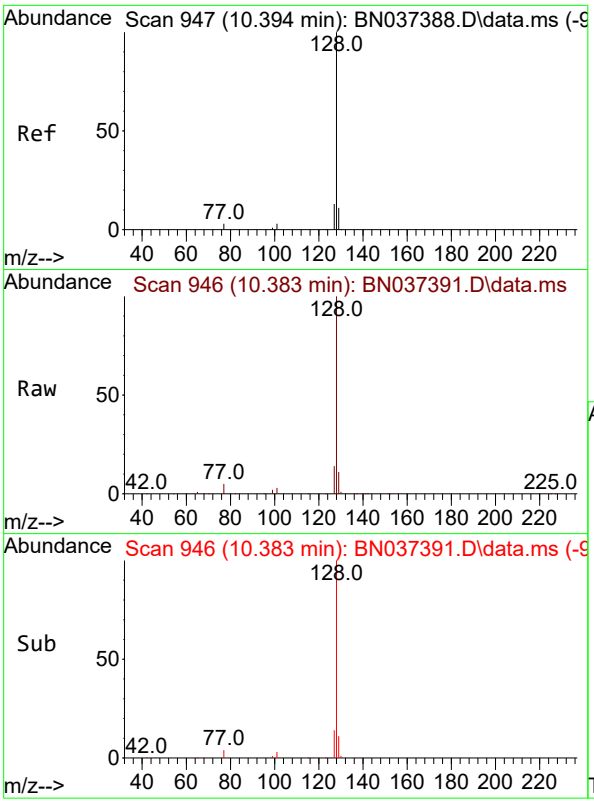


#8
Nitrobenzene-d5
Concen: 3.508 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion: 82 Resp: 11574

Ion	Ratio	Lower	Upper
82	100		
128	36.3	34.0	51.0
54	43.4	37.7	56.5



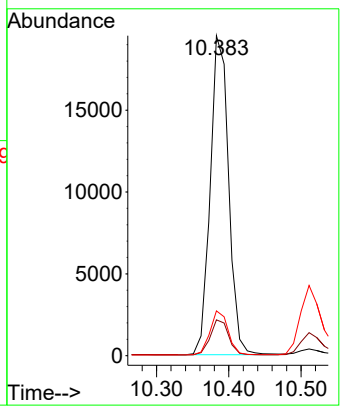


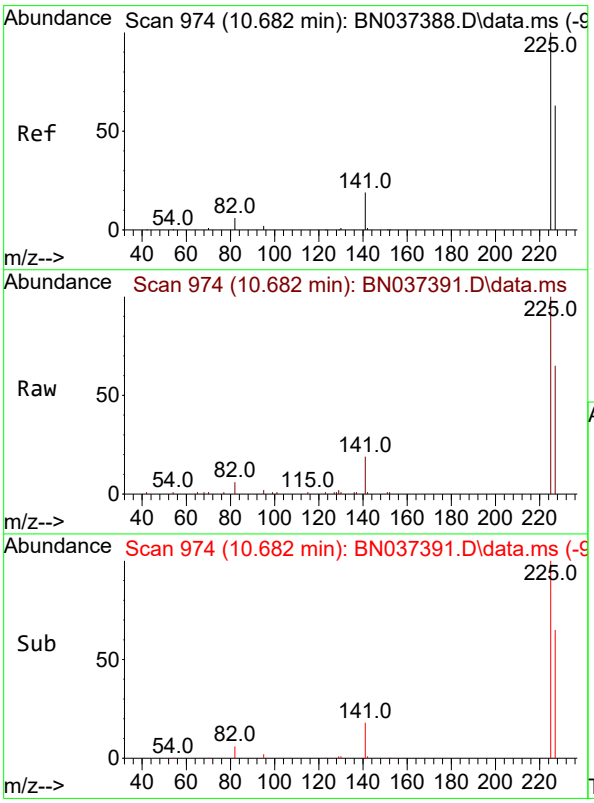
#9
Naphthalene
Concen: 3.263 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 34450

Ion	Ratio	Lower	Upper
128	100		
129	11.2	10.4	15.6
127	14.0	12.2	18.4

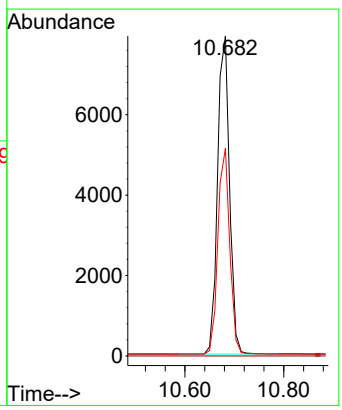


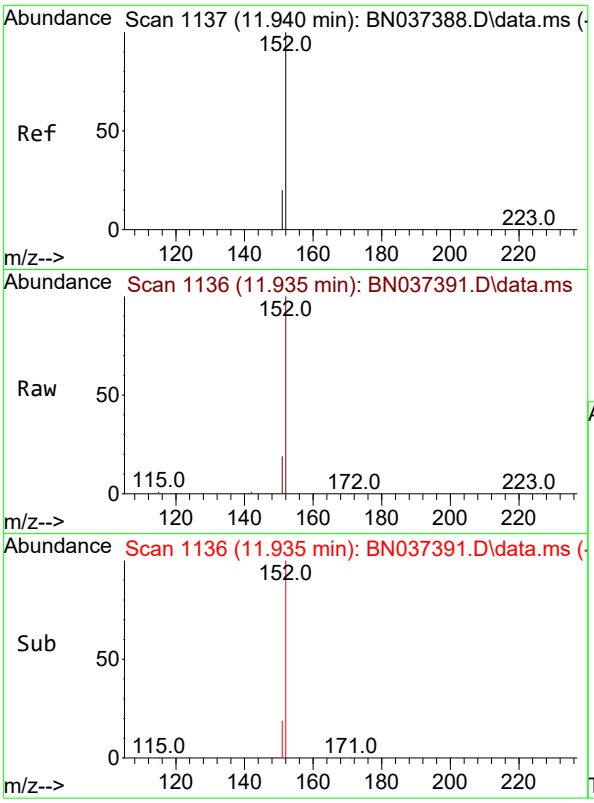


#10
Hexachlorobutadiene
Concen: 3.167 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:225 Resp: 13273

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	49.9	74.9



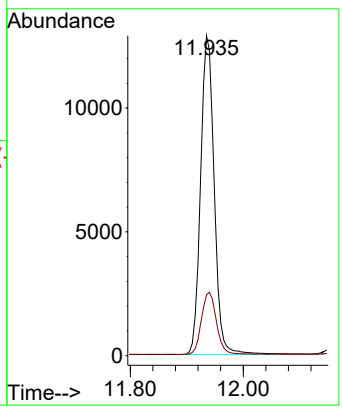


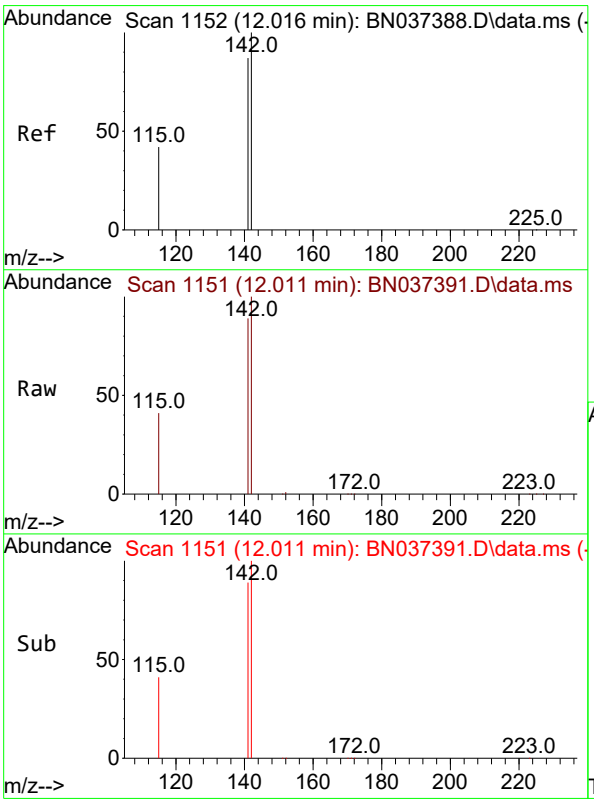
#11
2-Methylnaphthalene-d10
Concen: 3.390 ng
RT: 11.935 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 21511

Ion	Ratio	Lower	Upper
152	100		
151	21.6	18.4	27.6

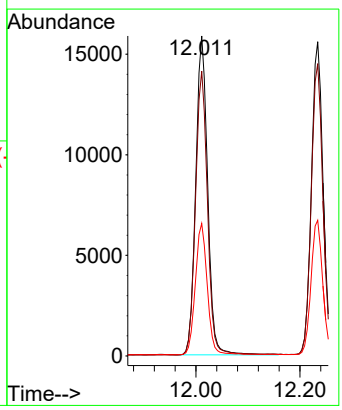


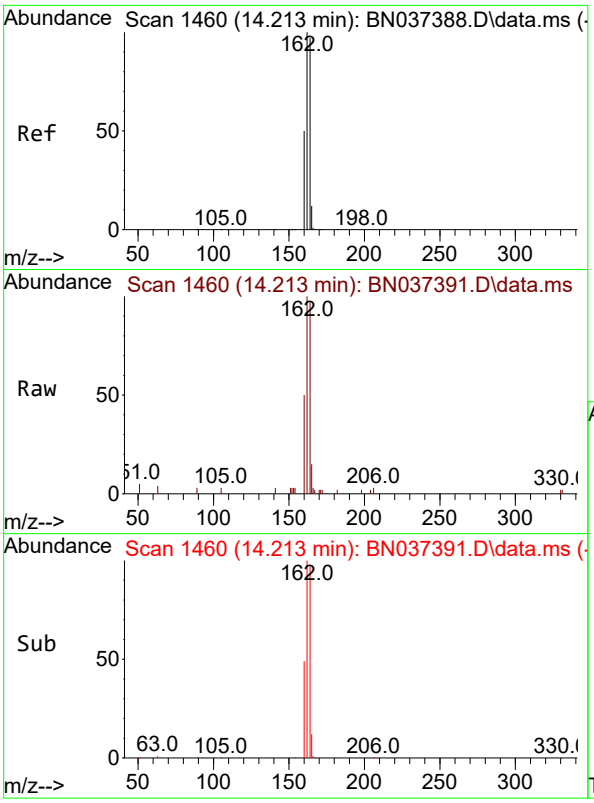


#12
2-Methylnaphthalene
Concen: 3.461 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:142 Resp: 25164

Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.1	105.1
115	41.4	35.8	53.6



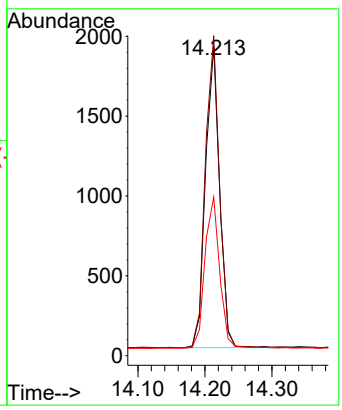


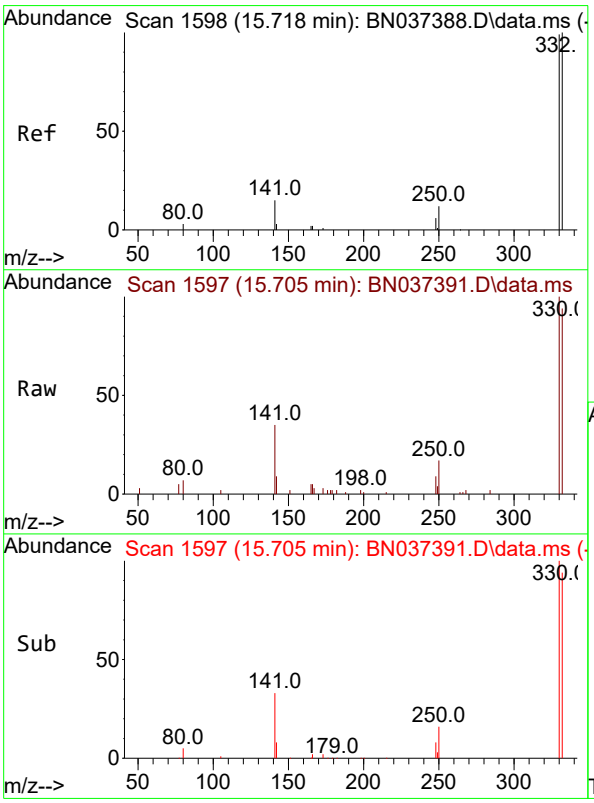
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 2755

Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.6	123.8
160	51.3	42.2	63.2

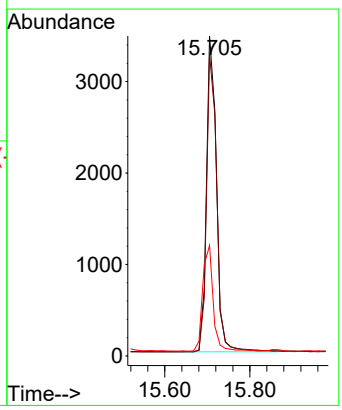


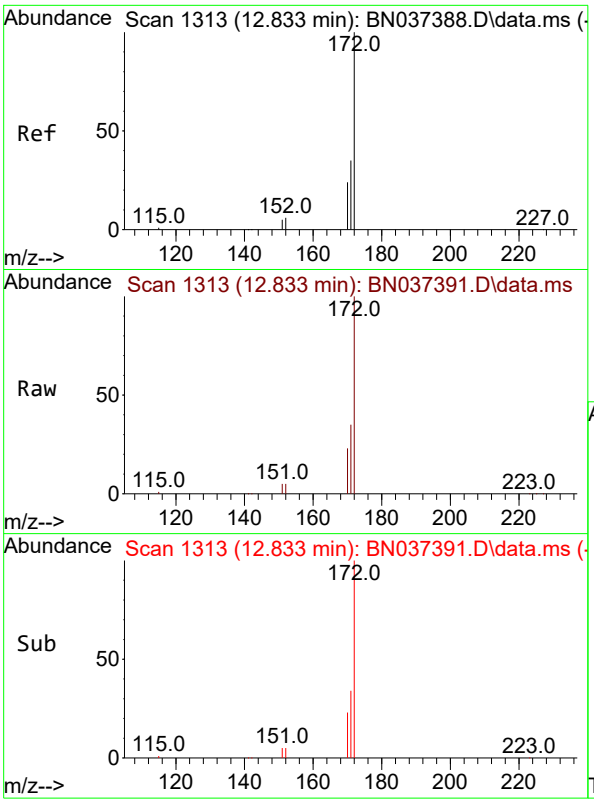


#14
2,4,6-Tribromophenol
Concen: 3.489 ng
RT: 15.705 min Scan# 1597
Delta R.T. -0.012 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:330 Resp: 5638

Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.8	116.8
141	35.1	24.0	36.0



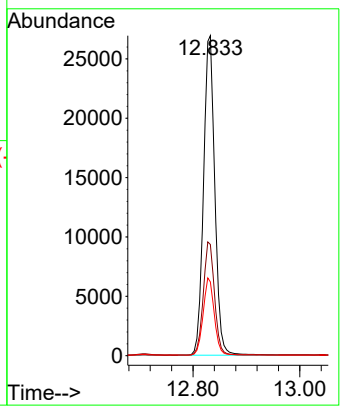


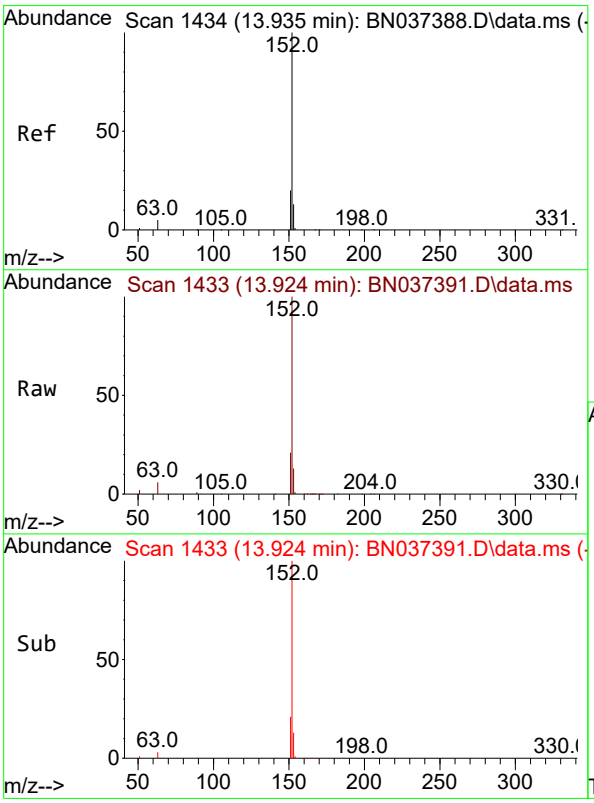
#15
2-Fluorobiphenyl
Concen: 3.337 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 39687

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.8	43.2
170	23.1	20.3	30.5

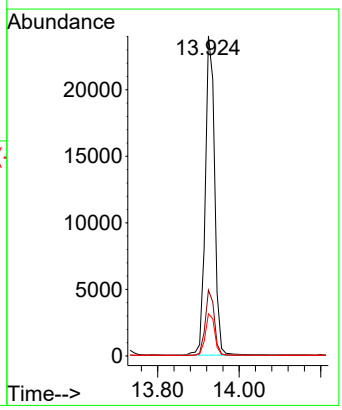


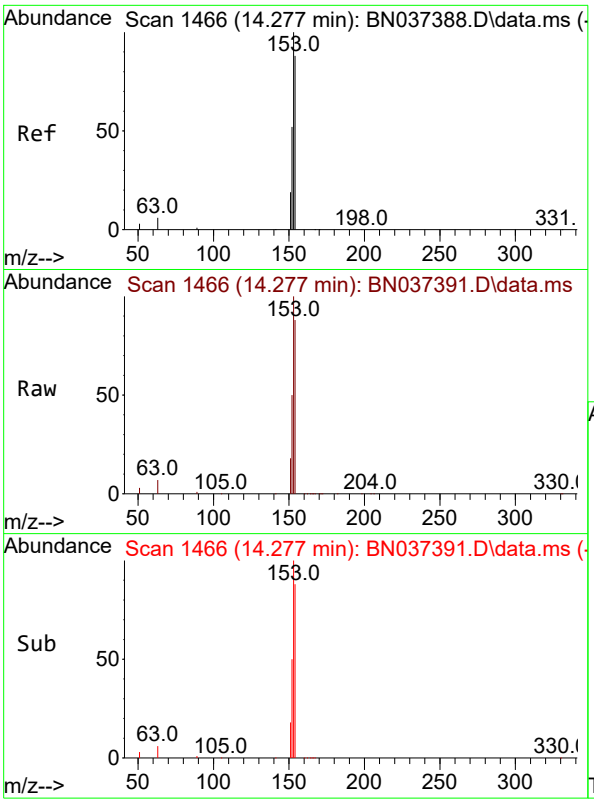


#16
Acenaphthylene
Concen: 3.359 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:152 Resp: 38375

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	13.1	10.3	15.5



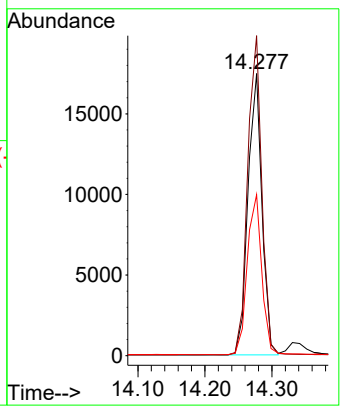


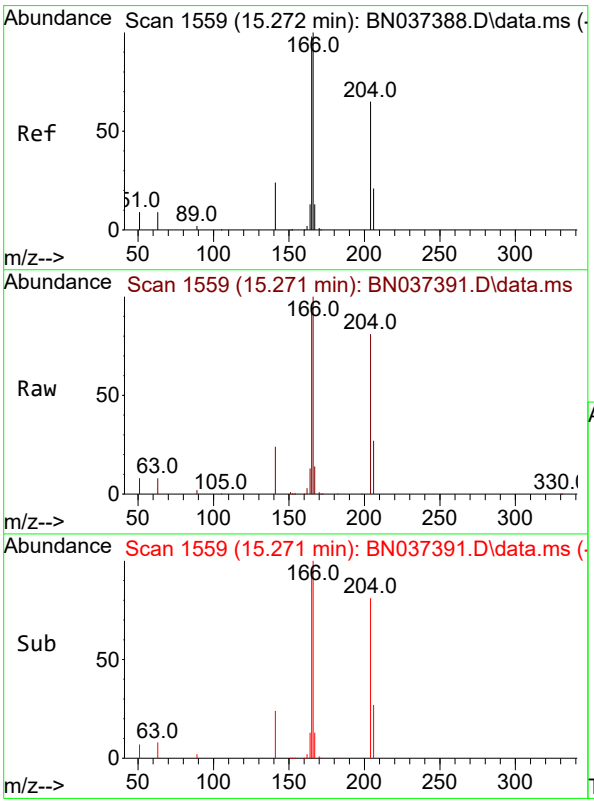
#17
Acenaphthene
Concen: 3.388 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 25275

Ion	Ratio	Lower	Upper
154	100		
153	115.2	94.6	141.8
152	59.7	50.2	75.2

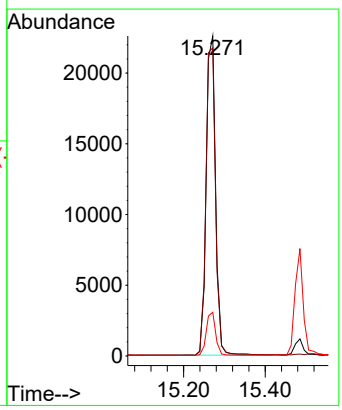


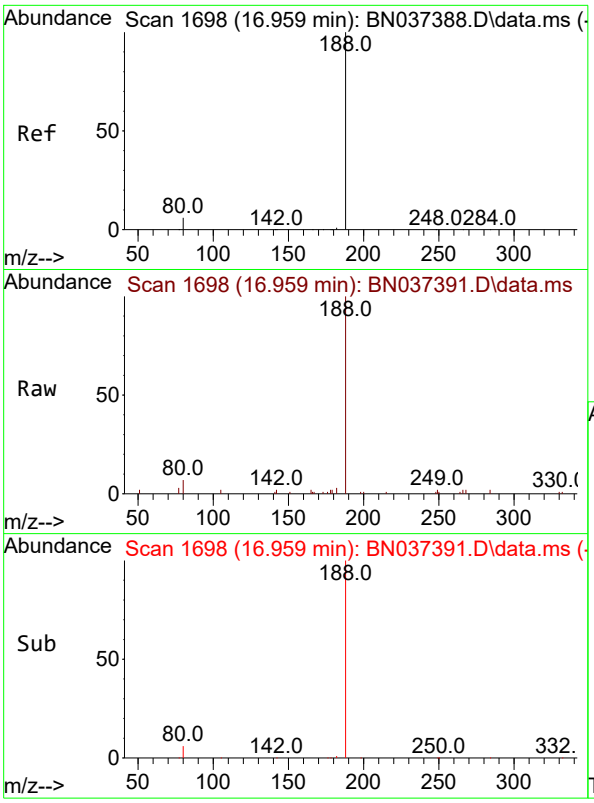


#18
Fluorene
Concen: 3.437 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:166 Resp: 36211

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.4	119.2
167	13.5	10.6	15.8



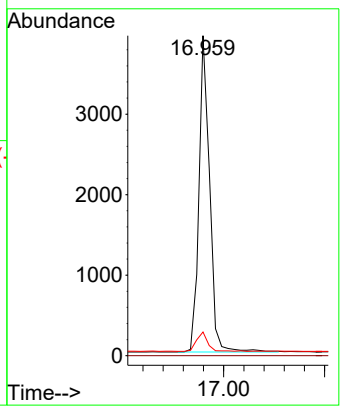


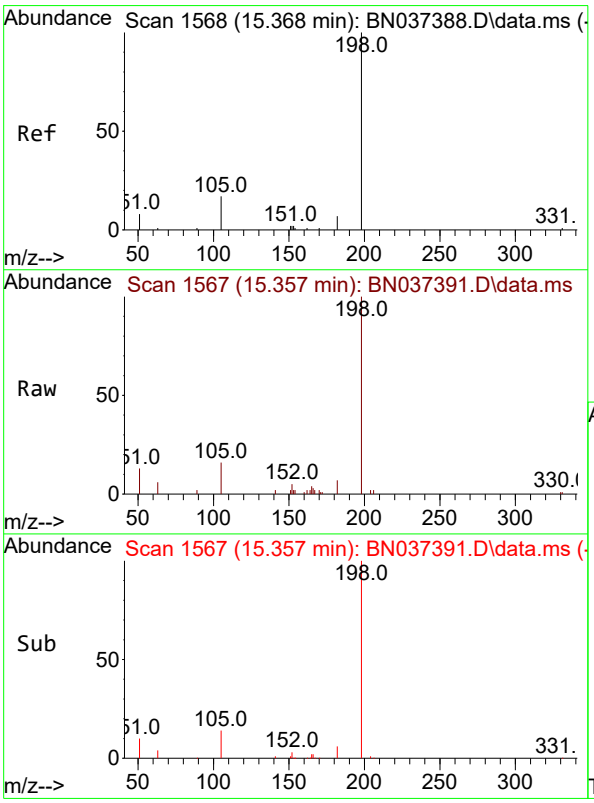
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 5771

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	6.2	9.4

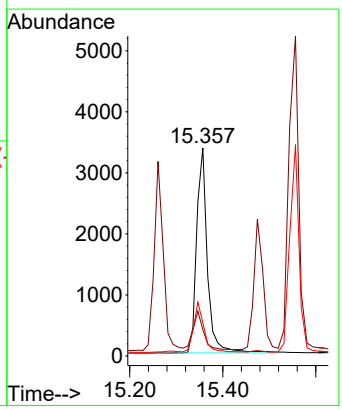


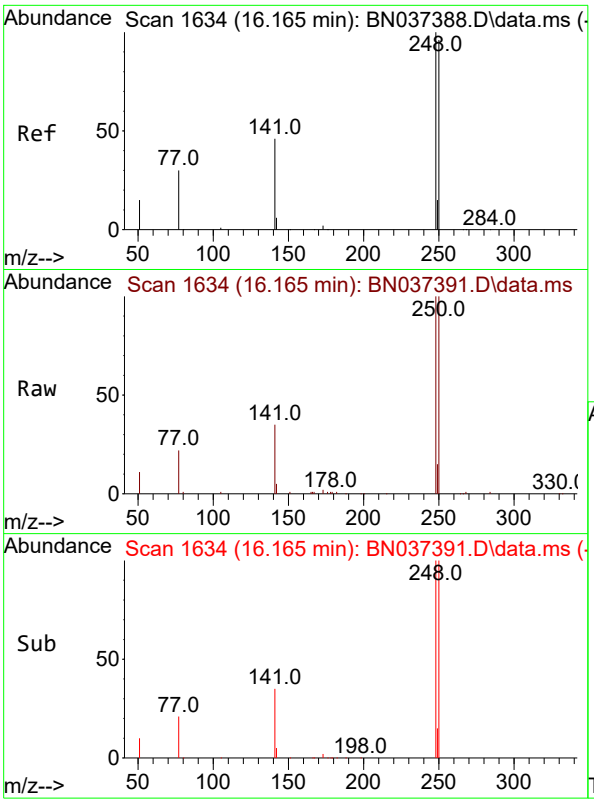


#20
4,6-Dinitro-2-methylphenol
Concen: 3.696 ng
RT: 15.357 min Scan# 1567
Delta R.T. -0.011 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:198 Resp: 5478

Ion	Ratio	Lower	Upper
198	100		
51	12.7	38.8	58.2#
105	15.9	29.8	44.6#



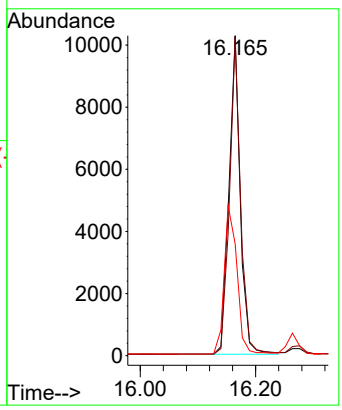


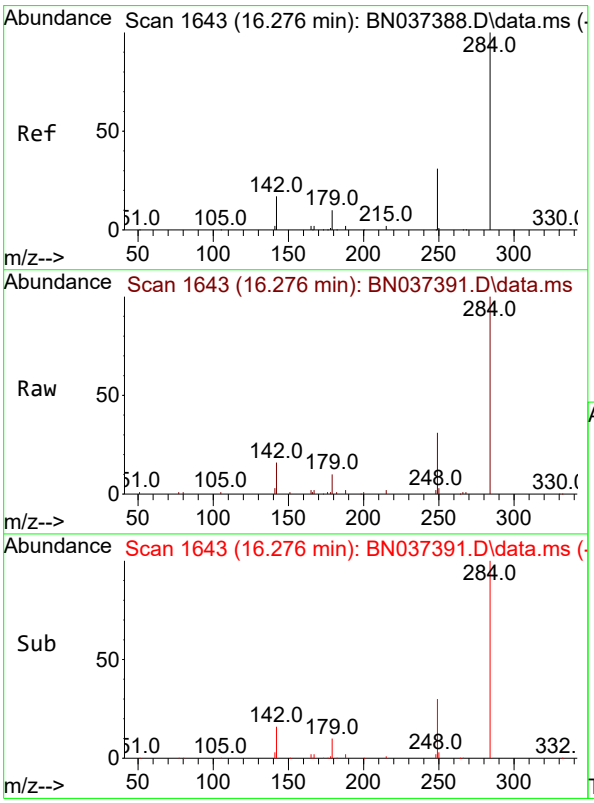
#21
4-Bromophenyl-phenylether
Concen: 3.427 ng
RT: 16.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 13953

Ion	Ratio	Lower	Upper
248	100		
250	99.6	77.0	115.4
141	35.0	38.7	58.1#

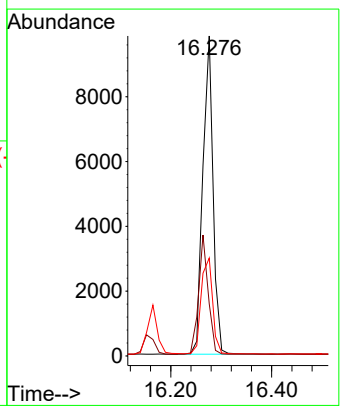


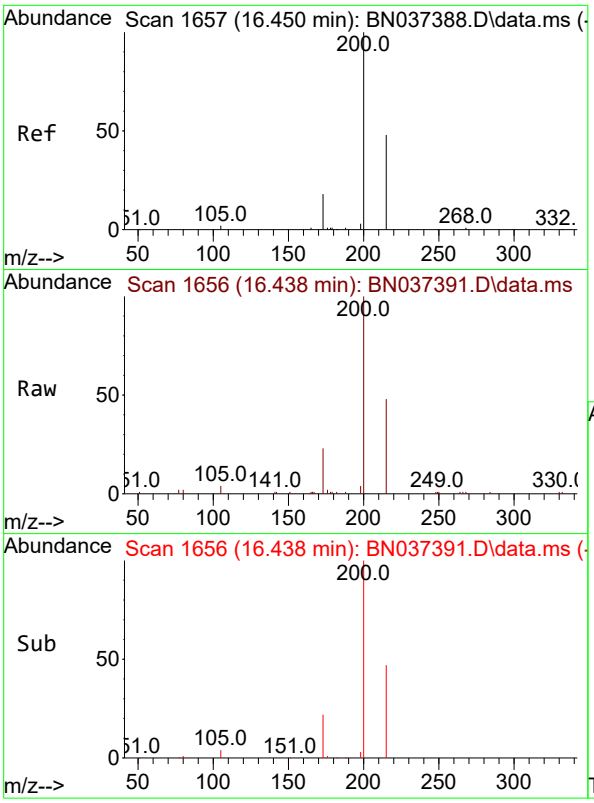


#22
Hexachlorobenzene
Concen: 3.171 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:284 Resp: 13881

Ion	Ratio	Lower	Upper
284	100		
142	35.4	27.2	40.8
249	33.9	26.7	40.1



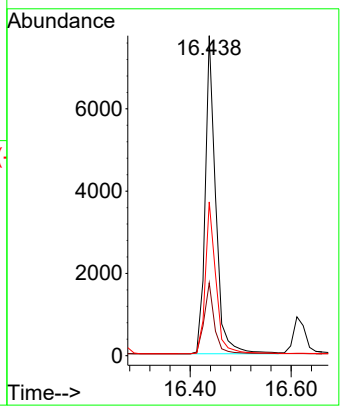


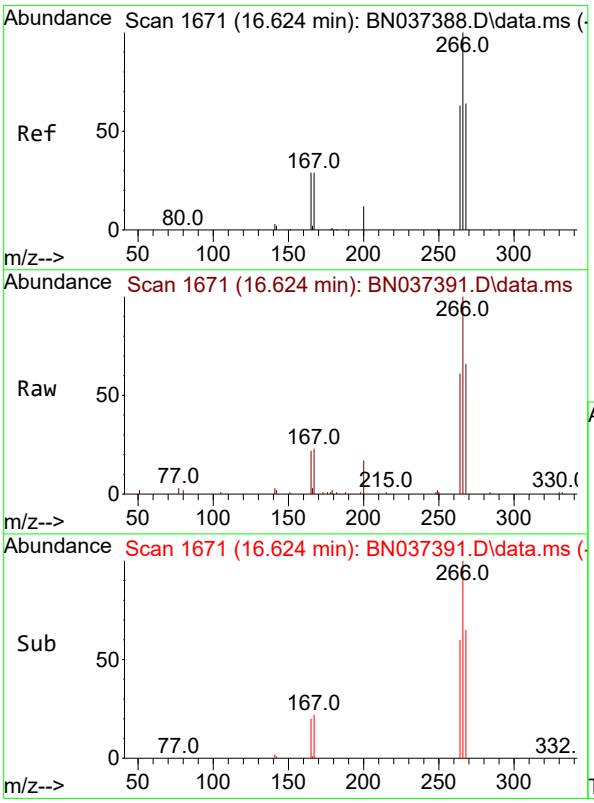
#23
Atrazine
Concen: 3.463 ng
RT: 16.438 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 11170

Ion	Ratio	Lower	Upper
200	100		
173	22.8	19.0	28.6
215	48.1	41.3	61.9

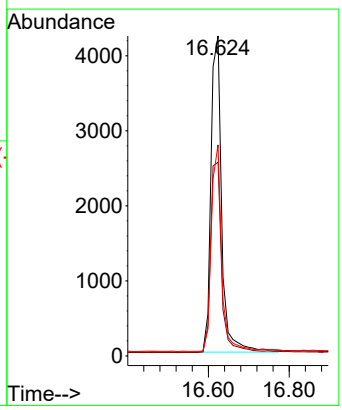


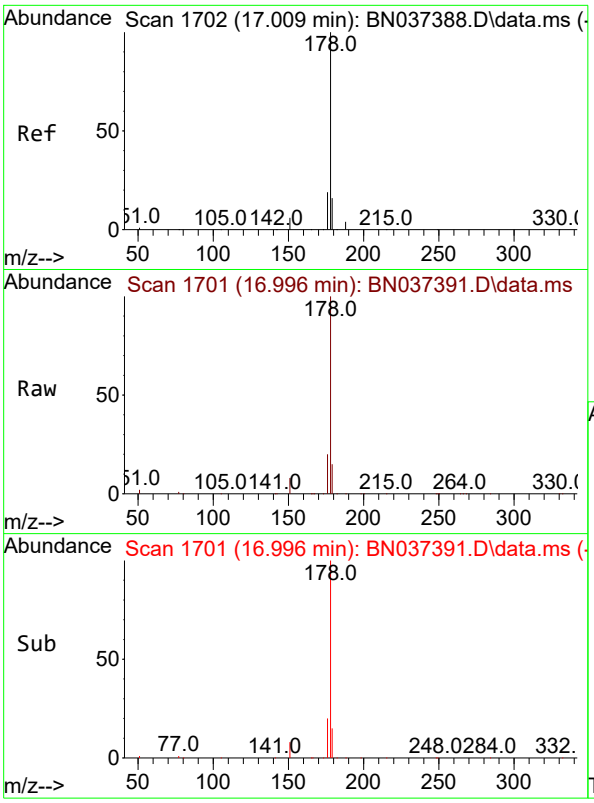


#24
Pentachlorophenol
Concen: 3.288 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:266 Resp: 7774

Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.2	73.8
268	63.6	54.2	81.4



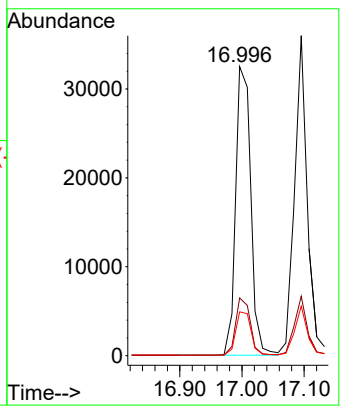


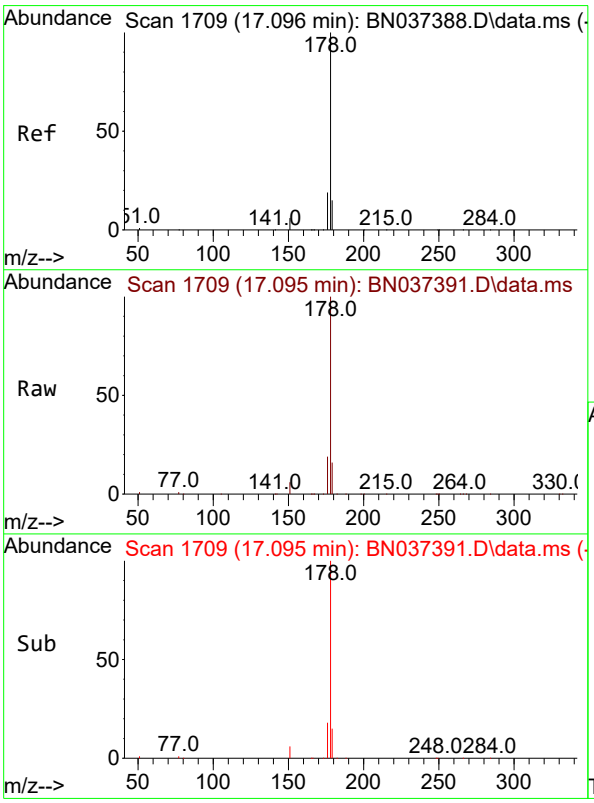
#25
Phenanthrene
Concen: 3.379 ng
RT: 16.996 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 54938

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.6	23.4
179	15.3	12.8	19.2

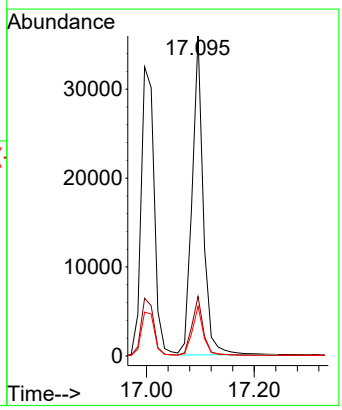


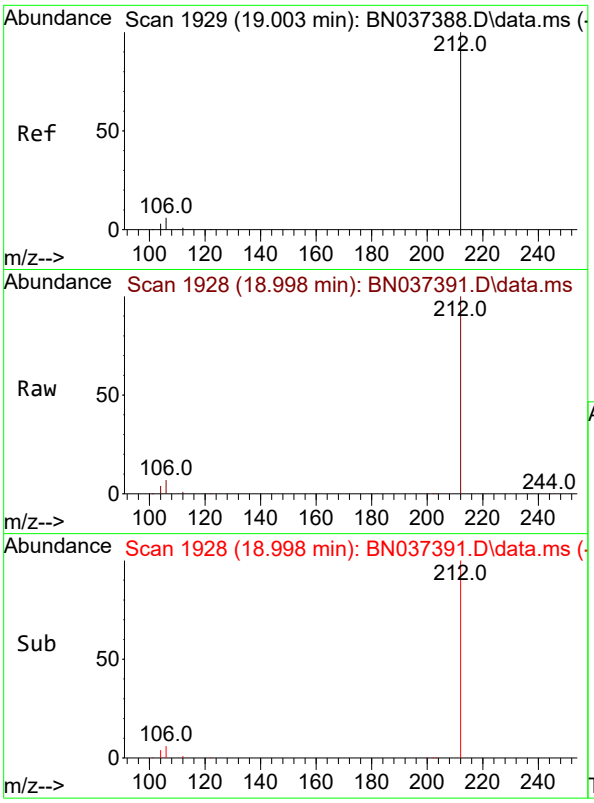


#26
Anthracene
Concen: 3.460 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:178 Resp: 51719

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.3	12.4	18.6



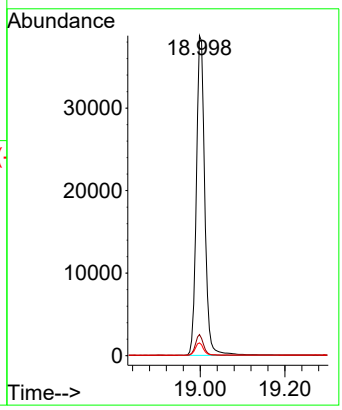


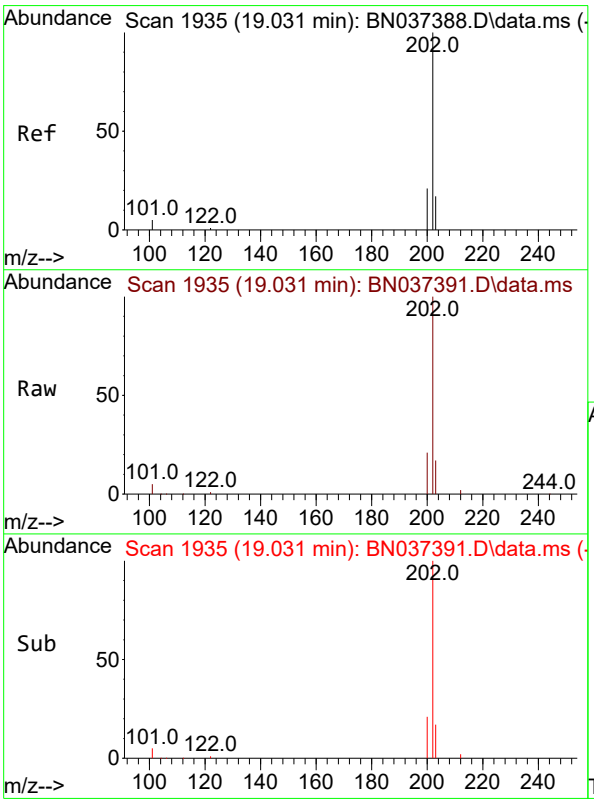
#27
Fluoranthene-d10
Concen: 3.221 ng
RT: 18.998 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 53268

Ion	Ratio	Lower	Upper
212	100		
106	6.2	4.5	6.7
104	3.8	2.7	4.1

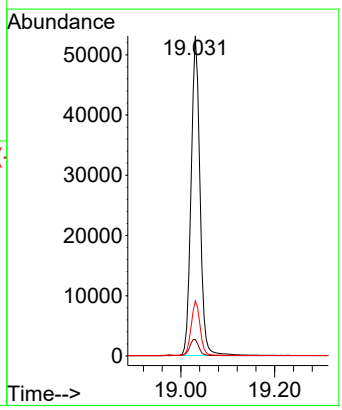


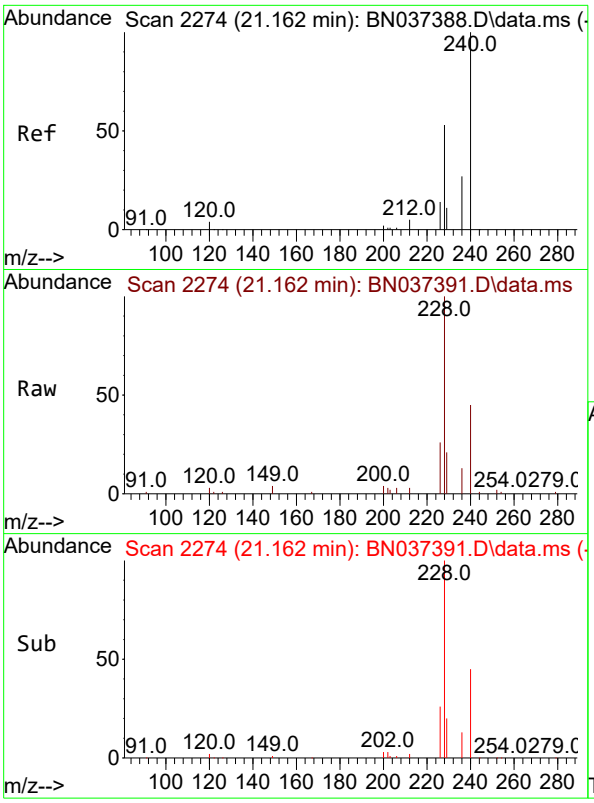


#28
Fluoranthene
Concen: 3.351 ng
RT: 19.031 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:202 Resp: 69575

Ion	Ratio	Lower	Upper
202	100		
101	5.4	3.8	5.6
203	17.1	13.5	20.3



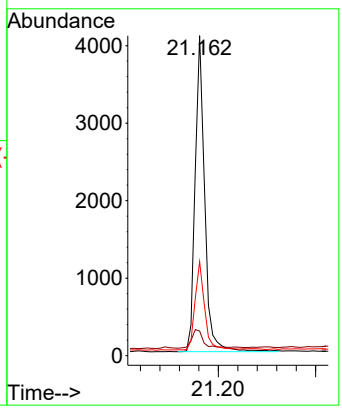


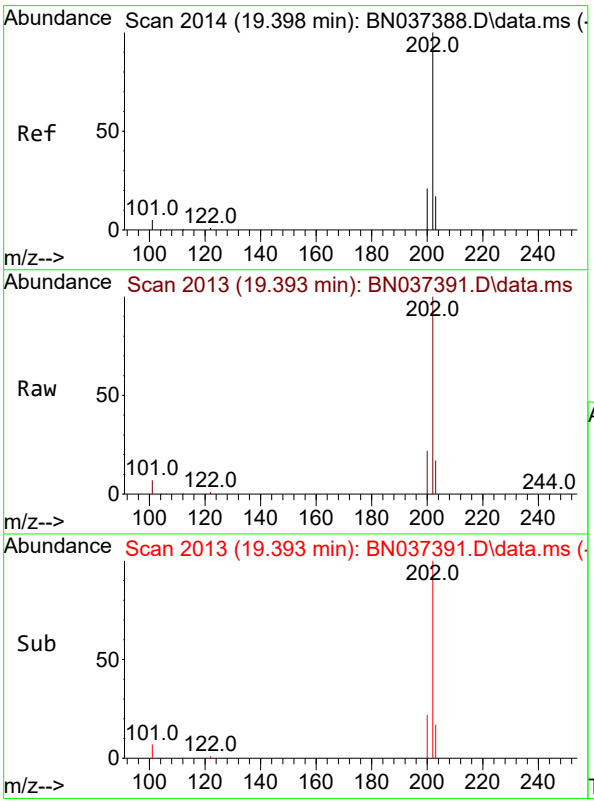
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 5566

Ion	Ratio	Lower	Upper
240	100		
120	7.7	5.3	7.9
236	29.4	22.7	34.1

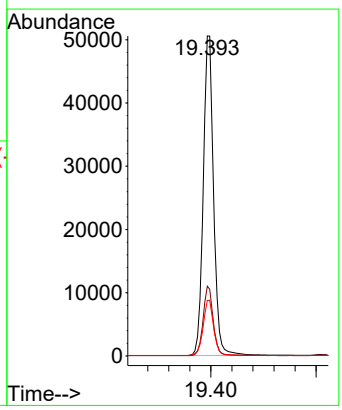


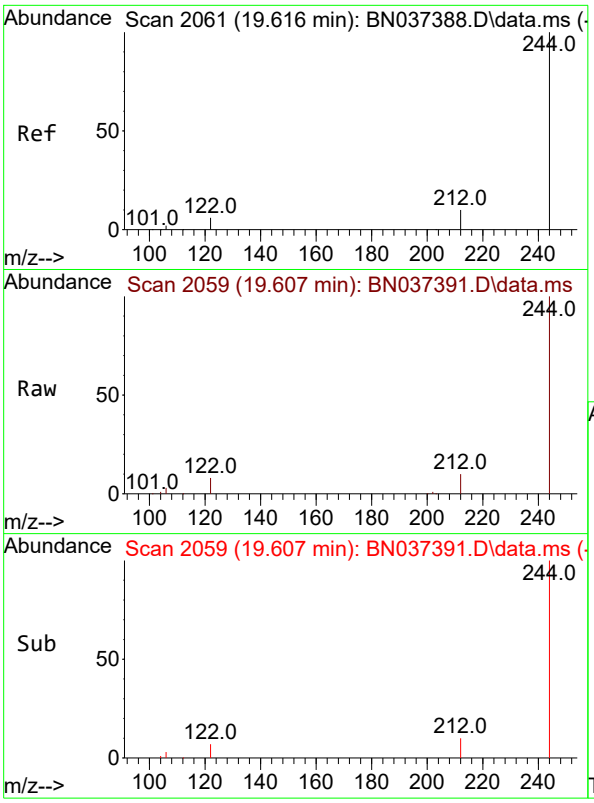


#30
Pyrene
Concen: 3.276 ng
RT: 19.393 min Scan# 2013
Delta R.T. -0.005 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:202 Resp: 69001

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.5	24.7
203	17.8	14.2	21.2



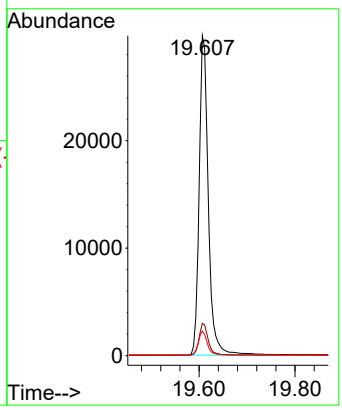


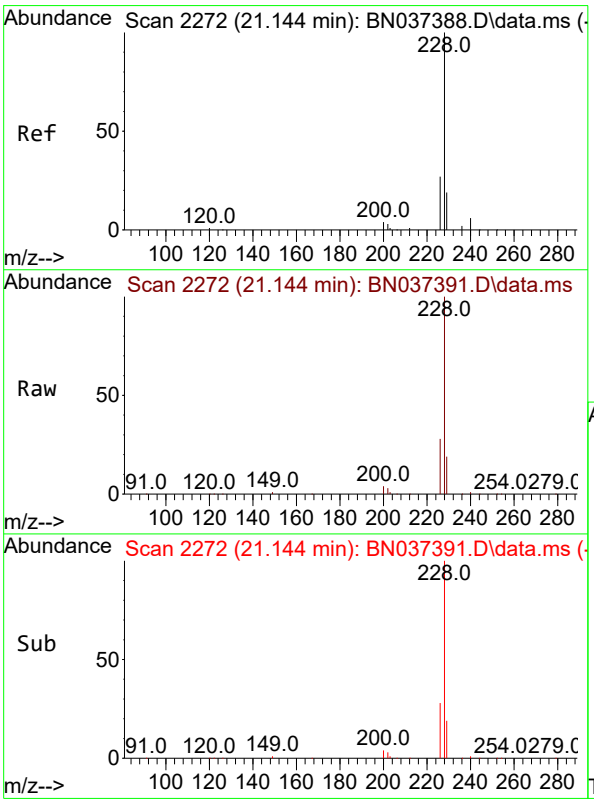
#31
Terphenyl-d14
Concen: 3.345 ng
RT: 19.607 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 39701

Ion	Ratio	Lower	Upper
244	100		
212	10.1	9.1	13.7
122	7.7	6.3	9.5

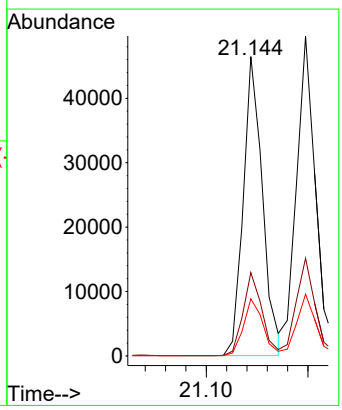


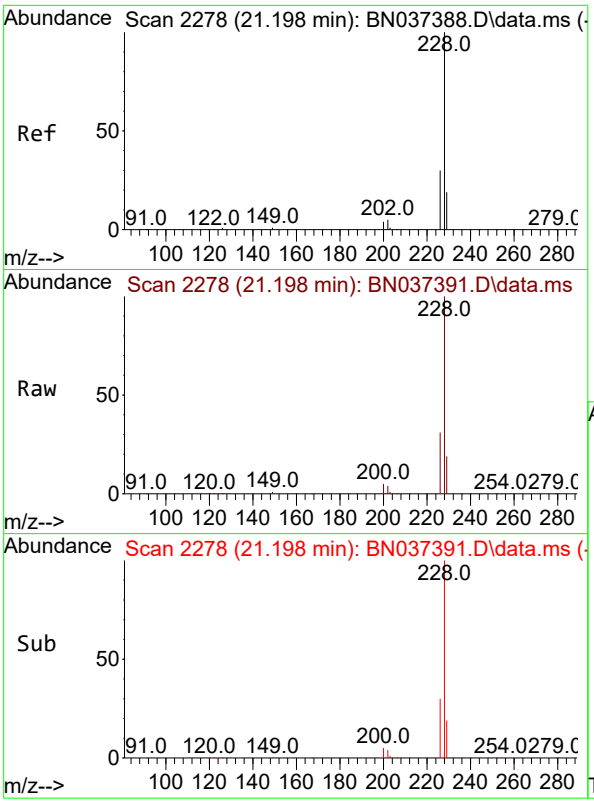


#32
Benzo(a)anthracene
Concen: 3.472 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:228 Resp: 60725

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	34.0
229	19.1	16.2	24.2



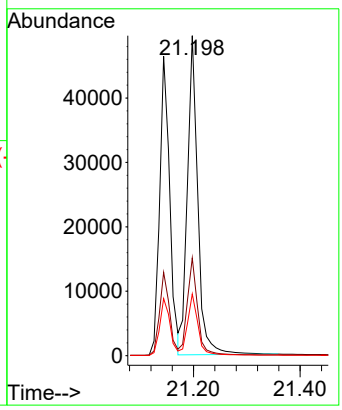


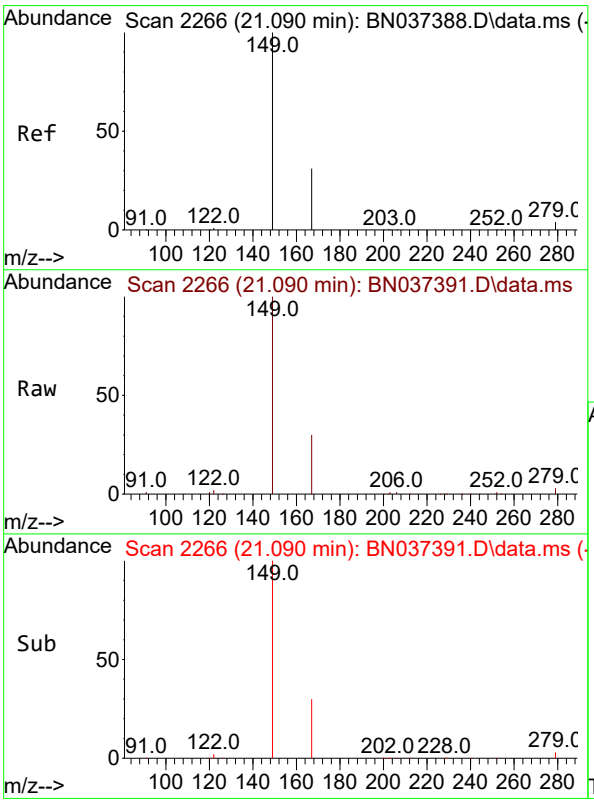
#33
Chrysene
Concen: 3.106 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 67241

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.5	36.7
229	19.3	16.1	24.1

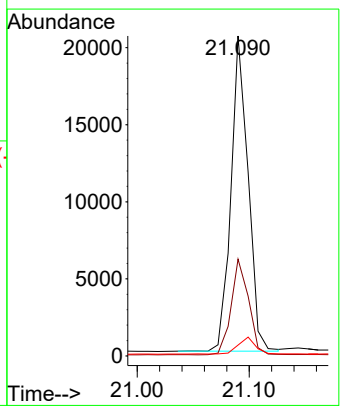


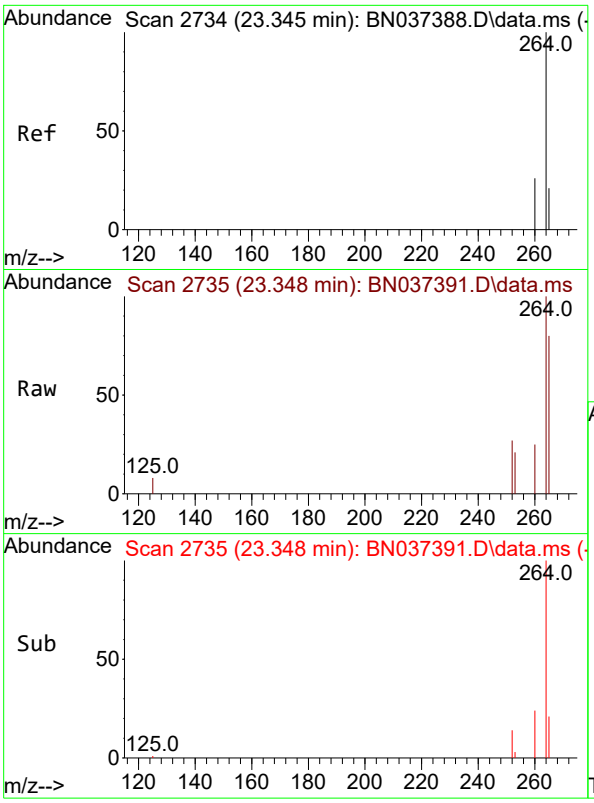


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.139 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:149 Resp: 21735

Ion	Ratio	Lower	Upper
149	100		
167	31.0	24.8	37.2
279	5.5	5.0	7.6



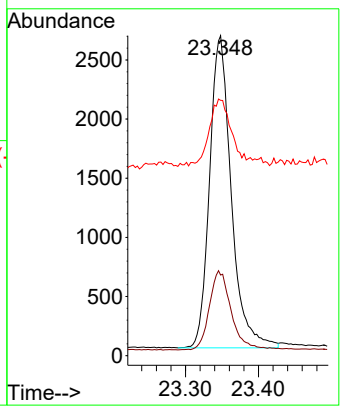


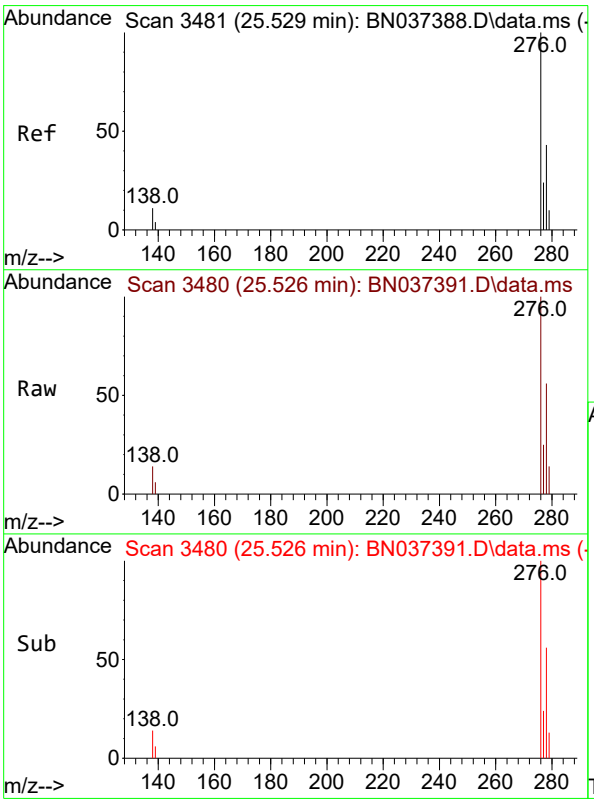
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 5442

Ion	Ratio	Lower	Upper
264	100		
260	25.2	21.4	32.0
265	79.8	56.2	84.4

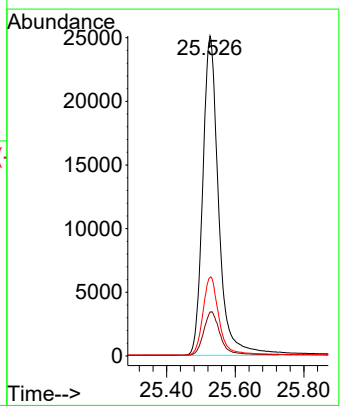


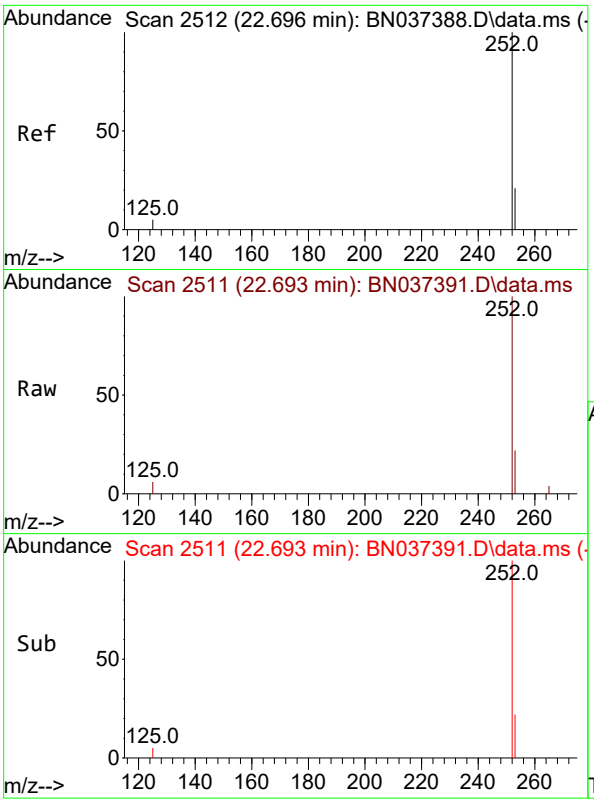


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.517 ng
RT: 25.526 min Scan# 3480
Delta R.T. -0.003 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:276 Resp: 80692

Ion	Ratio	Lower	Upper
276	100		
138	14.3	8.5	12.7#
277	24.7	19.7	29.5



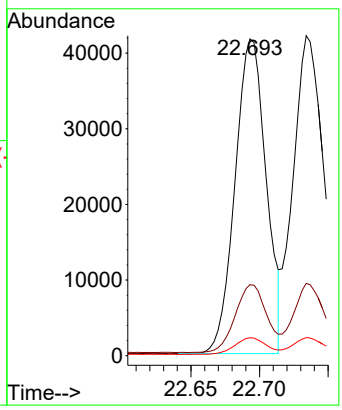


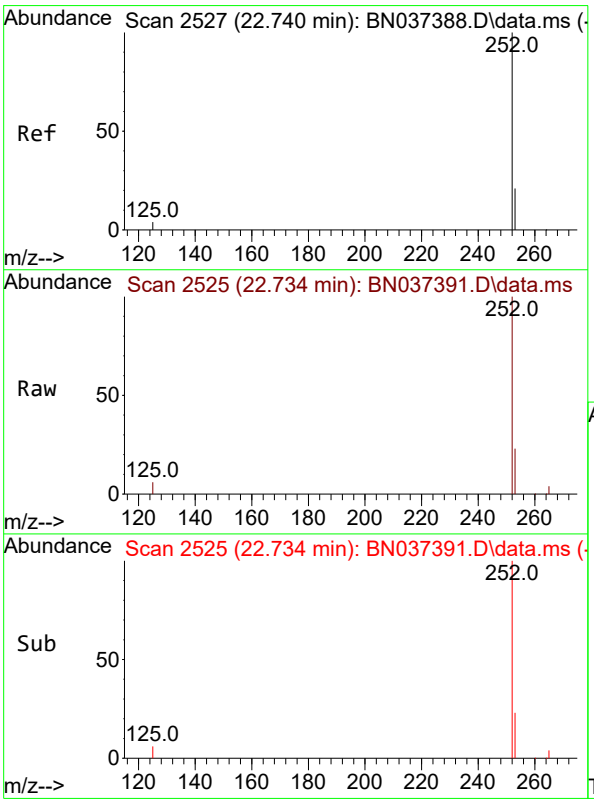
#37
Benzo(b)fluoranthene
Concen: 3.412 ng
RT: 22.693 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 65471

Ion	Ratio	Lower	Upper
252	100		
253	22.4	22.8	34.2#
125	5.6	6.2	9.4#

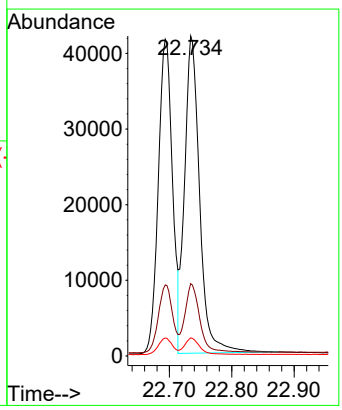


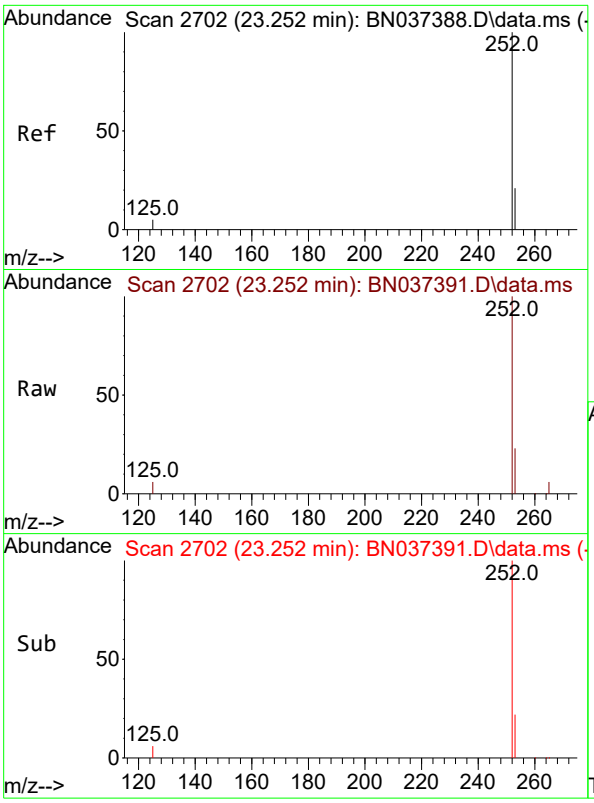


#38
Benzo(k)fluoranthene
Concen: 3.425 ng
RT: 22.734 min Scan# 2525
Delta R.T. -0.006 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:252 Resp: 70234

Ion	Ratio	Lower	Upper
252	100		
253	22.6	23.2	34.8#
125	5.6	6.0	9.0#



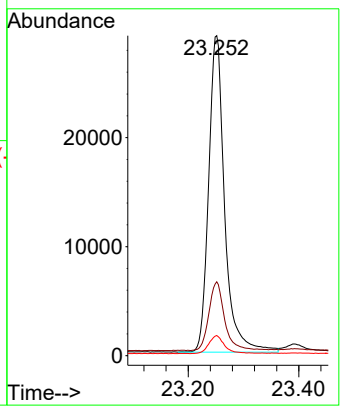


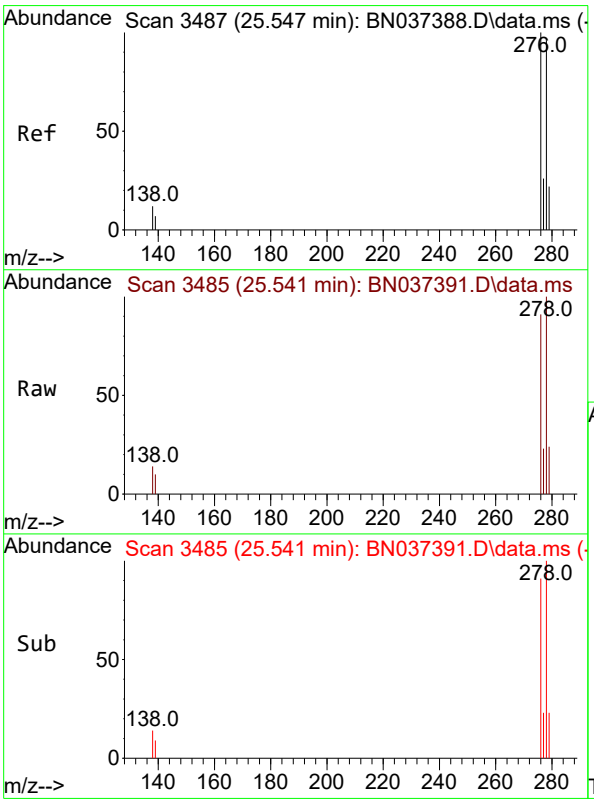
#39
Benzo(a)pyrene
Concen: 3.422 ng
RT: 23.252 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 58393

Ion	Ratio	Lower	Upper
252	100		
253	23.1	25.6	38.4#
125	6.3	7.5	11.3#

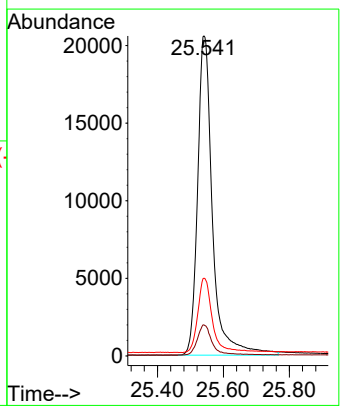


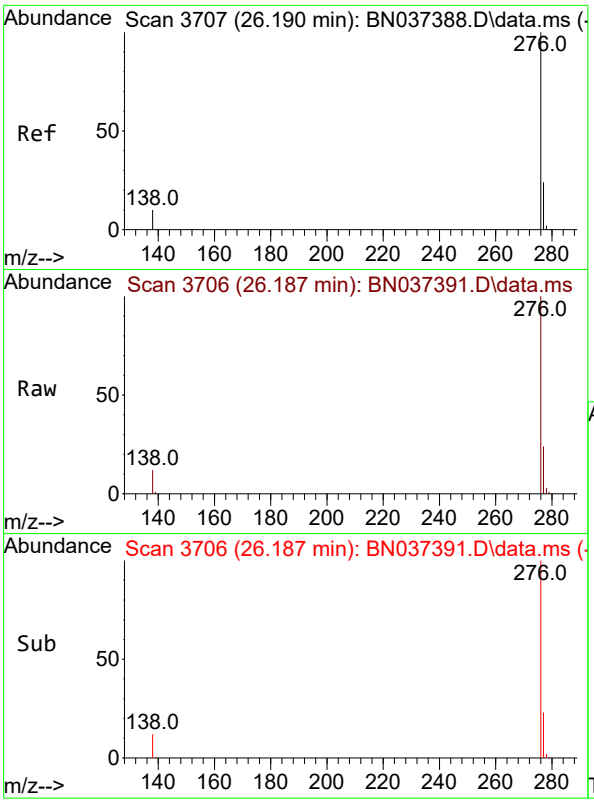


#40
Dibenzo(a,h)anthracene
Concen: 3.668 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.006 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:278 Resp: 64655

Ion	Ratio	Lower	Upper
278	100		
139	9.7	8.5	12.7
279	24.3	27.5	41.3#



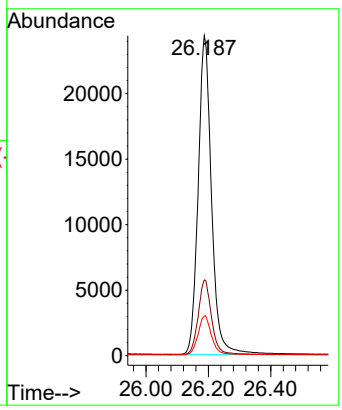


#41
Benzo(g,h,i)perylene
Concen: 3.427 ng
RT: 26.187 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 72186

Ion	Ratio	Lower	Upper
276	100		
277	23.6	21.0	31.4
138	12.4	9.6	14.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037392.D
Acq On : 26 Jun 2025 14:17
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 26 14:45:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.560	152	2311	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4753	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	3216	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	6554	0.400	ng		0.00
29) Chrysene-d12	21.162	240	6601	0.400	ng		0.00
35) Perylene-d12	23.345	264	6264	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	23643	5.308	ng		0.00
5) Phenol-d6	6.744	99	27480	5.950	ng		0.00
8) Nitrobenzene-d5	8.706	82	23095	6.041	ng		-0.01
11) 2-Methylnaphthalene-d10	11.935	152	47934	6.519	ng		0.00
14) 2,4,6-Tribromophenol	15.705	330	10881	5.768	ng		-0.01
15) 2-Fluorobiphenyl	12.833	172	76771	5.529	ng		0.00
27) Fluoranthene-d10	19.003	212	118571	6.313	ng		0.00
31) Terphenyl-d14	19.607	244	77795	5.527	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.097	88	9566	4.619	ng		95
3) n-Nitrosodimethylamine	3.408	42	10726	4.955	ng	#	90
6) bis(2-Chloroethyl)ether	6.997	93	22819	5.555	ng		96
9) Naphthalene	10.383	128	65119	5.322	ng		96
10) Hexachlorobutadiene	10.682	225	24052	4.952	ng	#	99
12) 2-Methylnaphthalene	12.011	142	47716	5.664	ng		96
16) Acenaphthylene	13.924	152	74682	5.600	ng		99
17) Acenaphthene	14.277	154	48364	5.553	ng		96
18) Fluorene	15.271	166	68578	5.576	ng		99
20) 4,6-Dinitro-2-methylph...	15.357	198	10525	6.252	ng	#	54
21) 4-Bromophenyl-phenylether	16.164	248	25866	5.594	ng	#	93
22) Hexachlorobenzene	16.276	284	25453	5.120	ng		98
23) Atrazine	16.437	200	21783	5.947	ng		95
24) Pentachlorophenol	16.624	266	14964	5.574	ng		96
25) Phenanthrene	16.996	178	105409	5.708	ng		99
26) Anthracene	17.095	178	100113	5.897	ng		100
28) Fluoranthene	19.031	202	133030	5.641	ng	#	99
30) Pyrene	19.393	202	132986	5.324	ng		99
32) Benzo(a)anthracene	21.144	228	119334	5.754	ng		99
33) Chrysene	21.197	228	127936	4.982	ng		99
34) Bis(2-ethylhexyl)phtha...	21.090	149	44321	5.397	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.523	276	154039	5.833	ng	#	96
37) Benzo(b)fluoranthene	22.693	252	127810	5.787	ng	#	90
38) Benzo(k)fluoranthene	22.737	252	132887	5.630	ng	#	89
39) Benzo(a)pyrene	23.248	252	111691	5.686	ng	#	85
40) Dibenzo(a,h)anthracene	25.538	278	122232	6.025	ng	#	86
41) Benzo(g,h,i)perylene	26.190	276	135052	5.570	ng		95

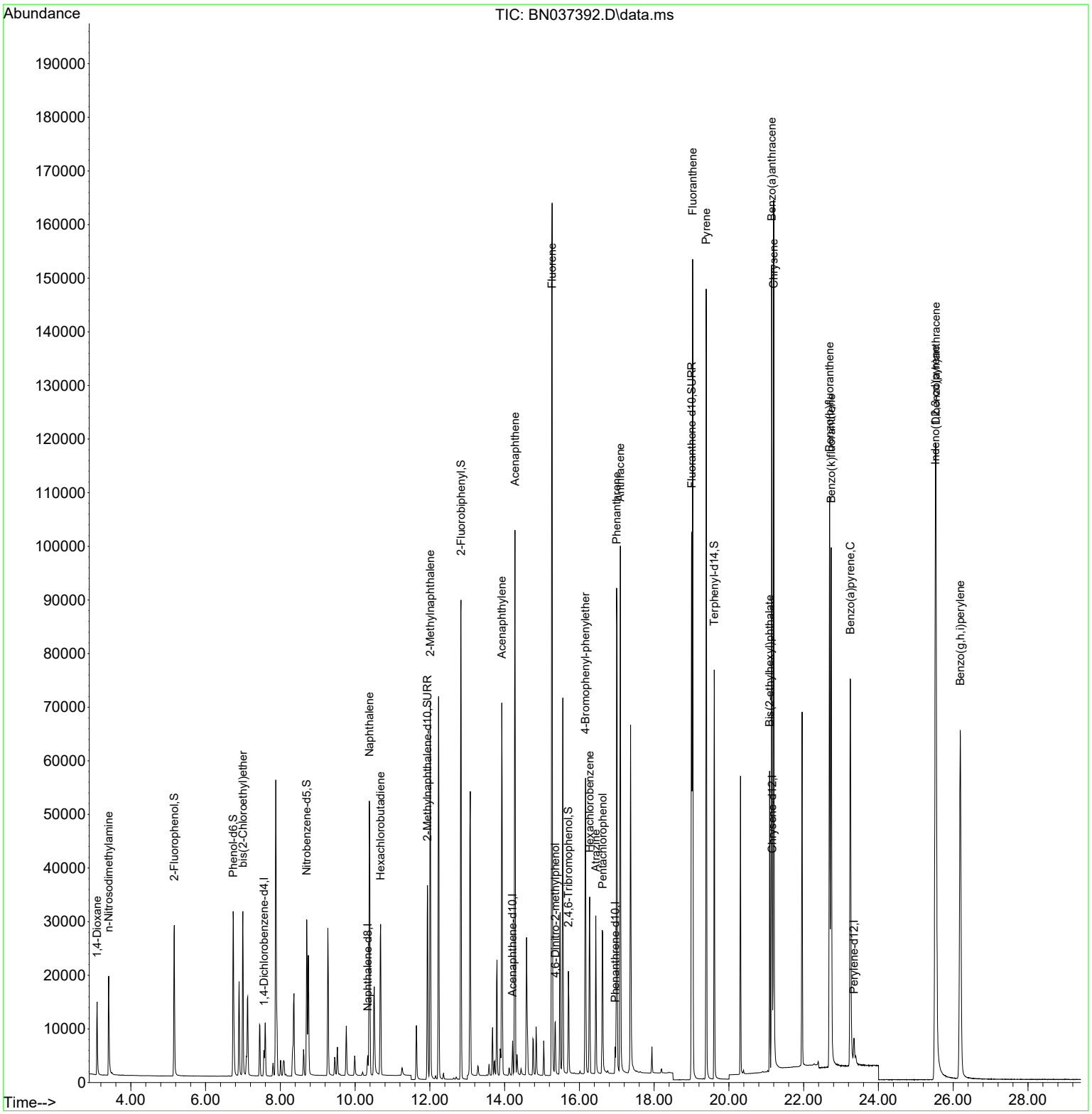
(#) = qualifier out of range (m) = manual integration (+) = signals summed

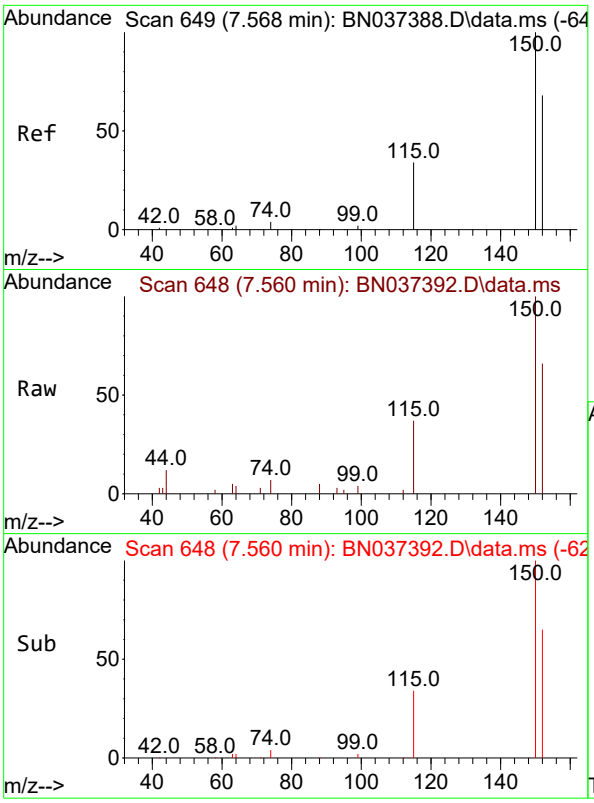
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037392.D
Acq On : 26 Jun 2025 14:17
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 26 14:45:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration



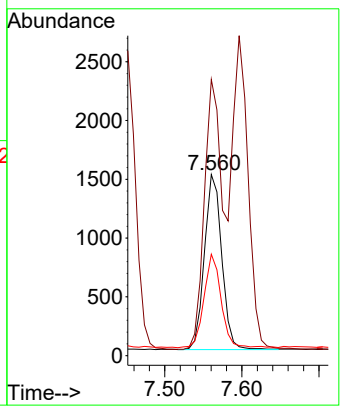


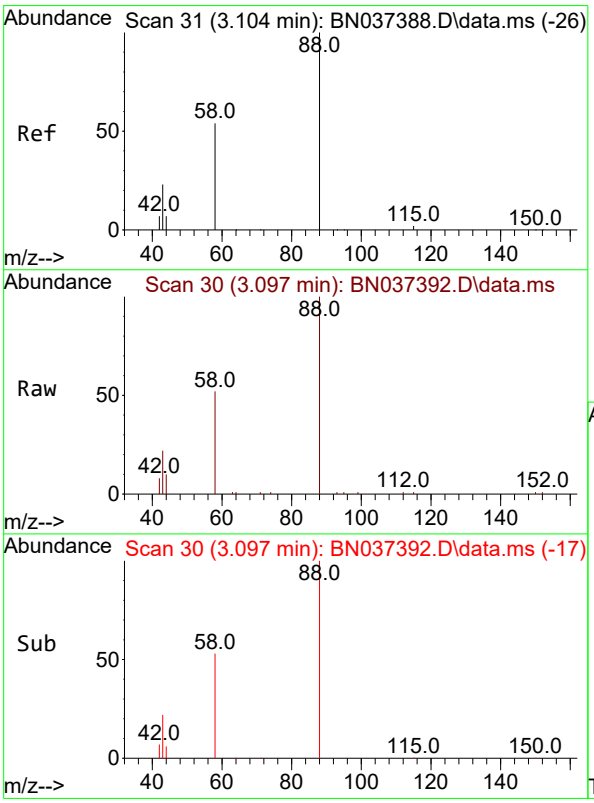
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2311

Ion	Ratio	Lower	Upper
152	100		
150	152.5	116.2	174.2
115	56.0	42.9	64.3

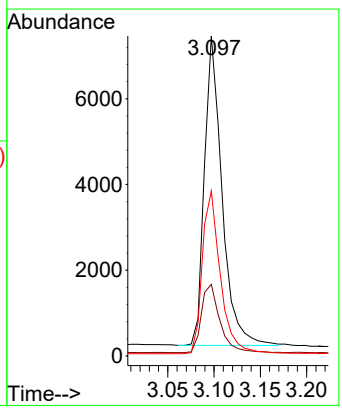


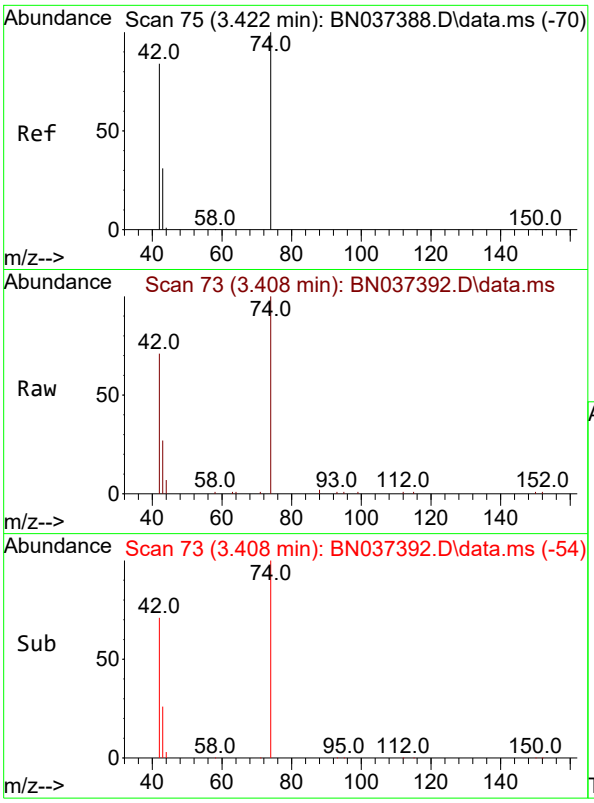


#2
1,4-Dioxane
Concen: 4.619 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 88 Resp: 9566

Ion	Ratio	Lower	Upper
88	100		
43	23.1	21.6	32.4
58	54.1	45.9	68.9



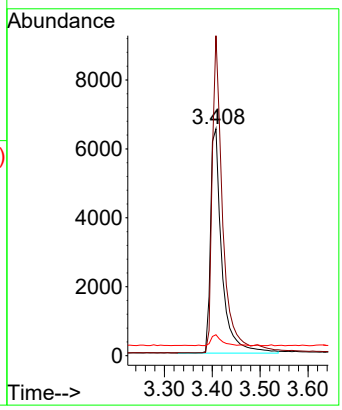


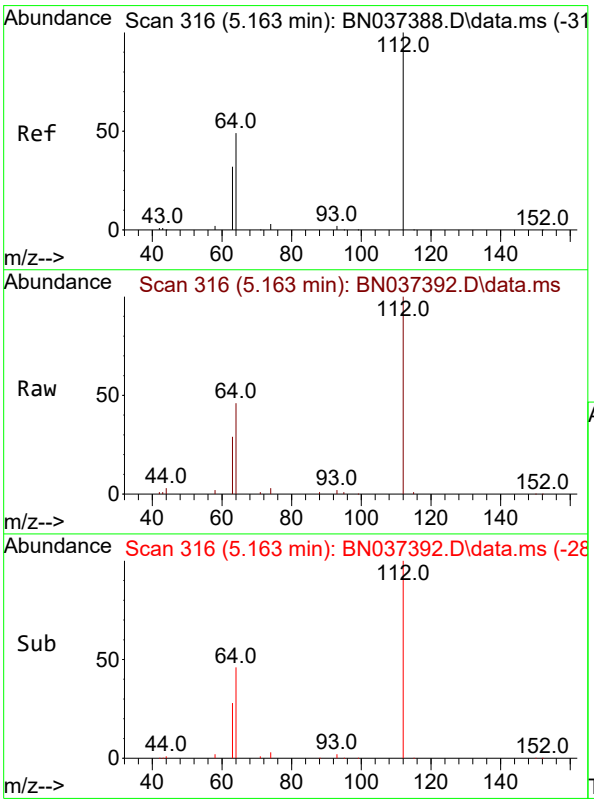
#3
n-Nitrosodimethylamine
Concen: 4.955 ng
RT: 3.408 min Scan# 7
Delta R.T. -0.015 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 10726

Ion	Ratio	Lower	Upper
42	100		
74	133.1	97.8	146.8
44	4.5	8.7	13.1#

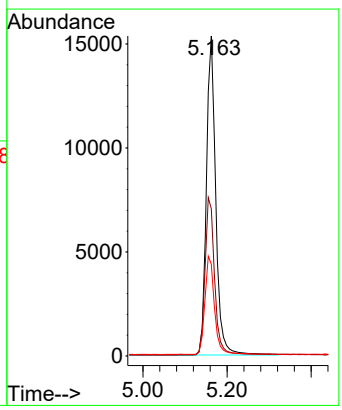


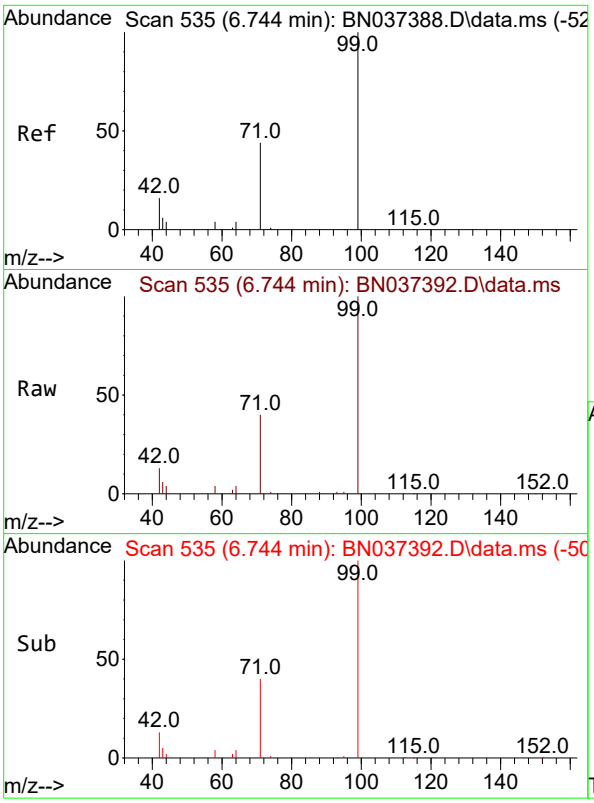


#4
2-Fluorophenol
Concen: 5.308 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:112 Resp: 23643

Ion	Ratio	Lower	Upper
112	100		
64	50.8	40.3	60.5
63	31.8	26.1	39.1



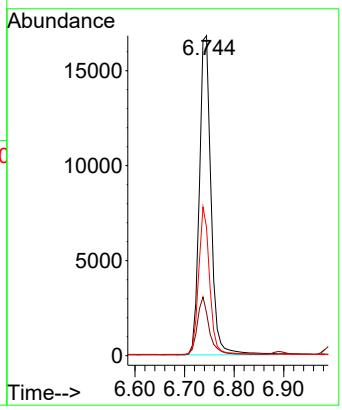


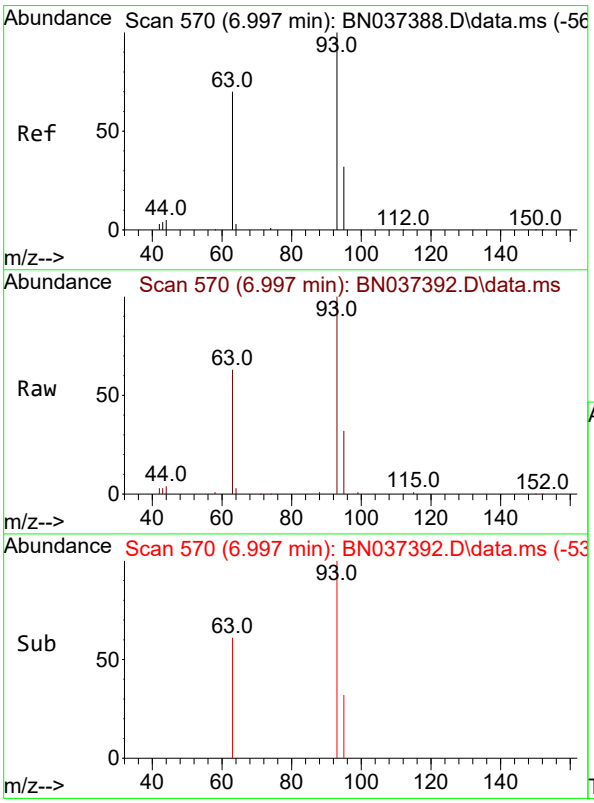
#5
Phenol-d6
Concen: 5.950 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 27480

Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.6	23.4
71	44.1	35.8	53.8

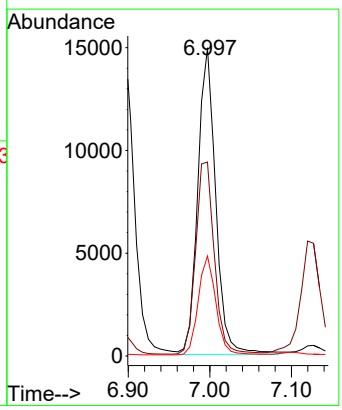


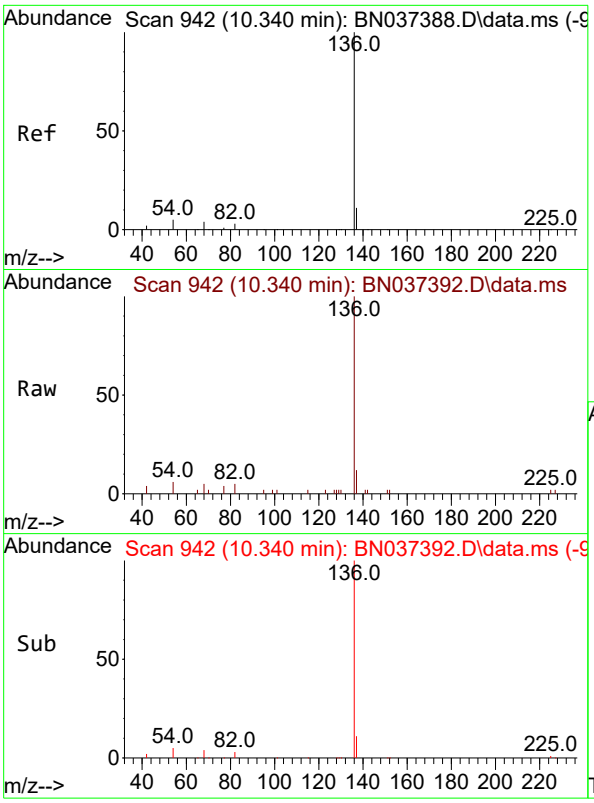


#6
bis(2-Chloroethyl)ether
Concen: 5.555 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 93 Resp: 22819

Ion	Ratio	Lower	Upper
93	100		
63	65.3	49.6	74.4
95	31.7	23.9	35.9



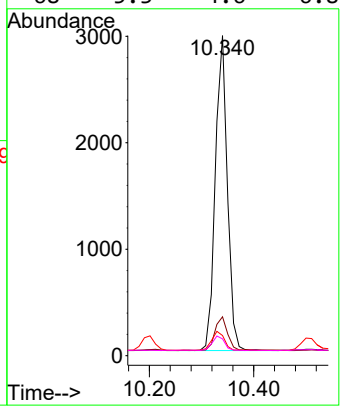


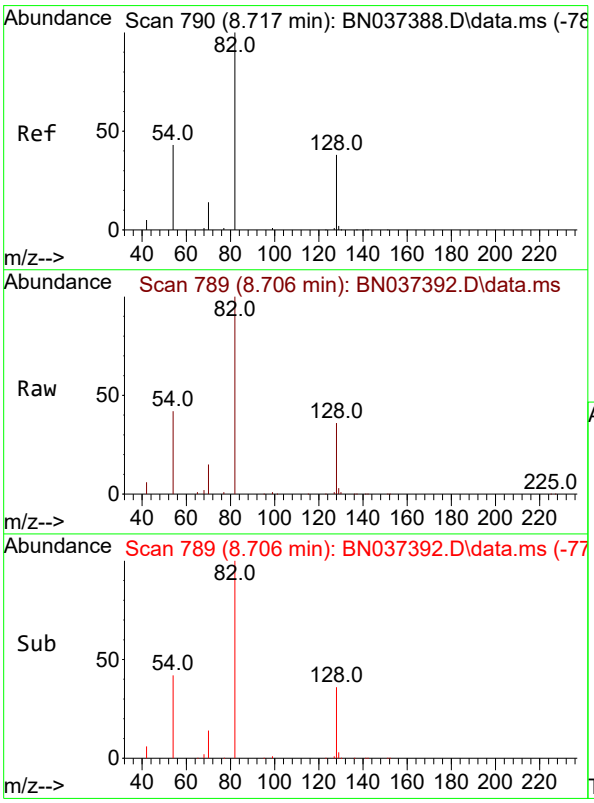
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 4753

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.4	15.6
54	6.3	5.6	8.4
68	5.3	4.6	6.8

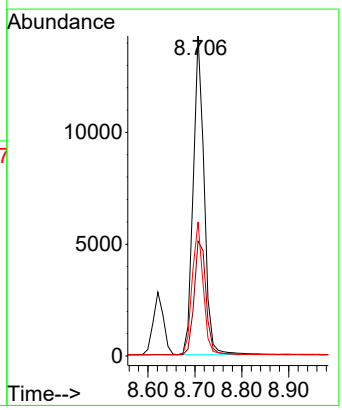


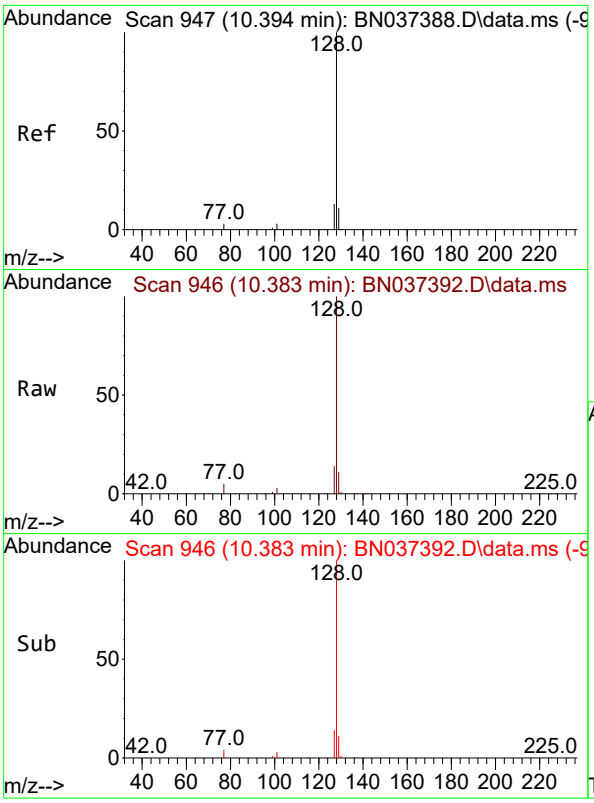


#8
Nitrobenzene-d5
Concen: 6.041 ng
RT: 8.706 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 82 Resp: 23095

Ion	Ratio	Lower	Upper
82	100		
128	35.9	34.0	51.0
54	41.9	37.7	56.5



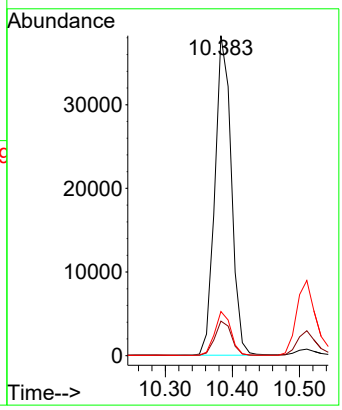


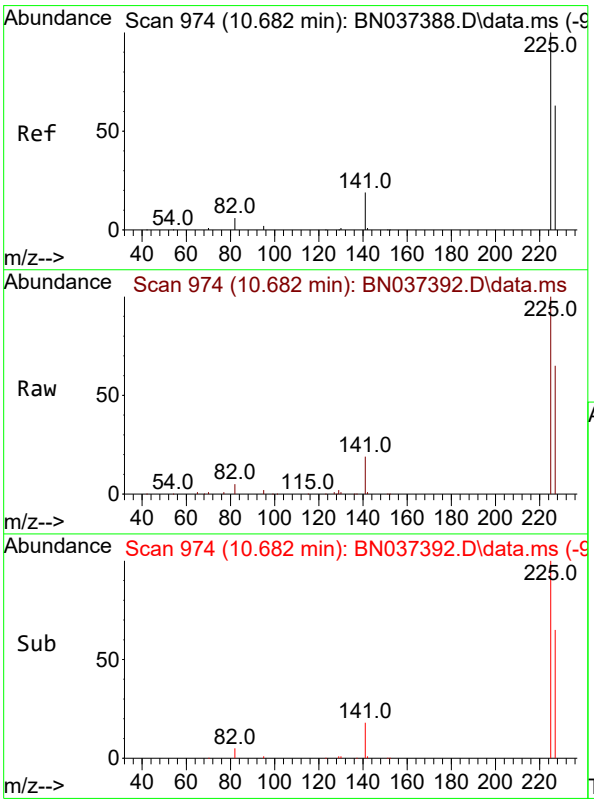
#9
Naphthalene
Concen: 5.322 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 65119

Ion	Ratio	Lower	Upper
128	100		
129	10.8	10.4	15.6
127	13.8	12.2	18.4

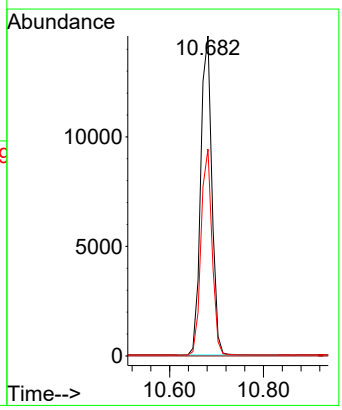


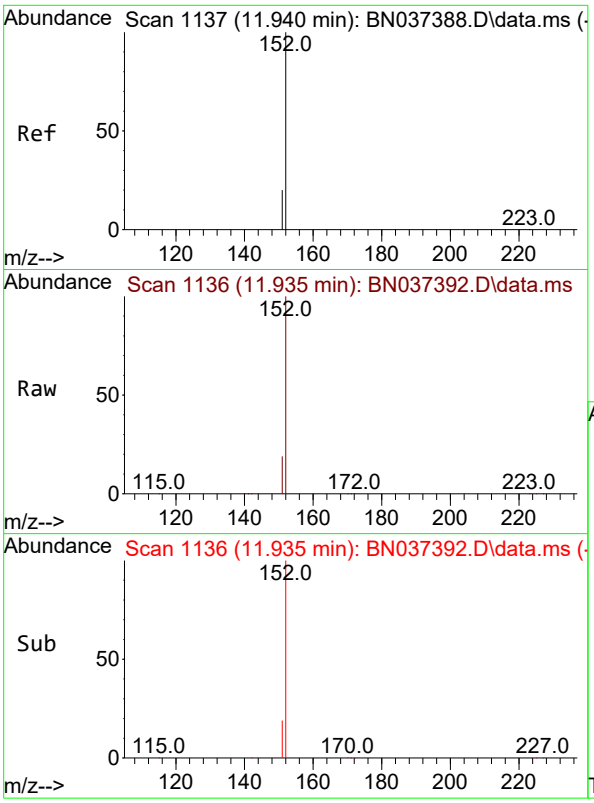


#10
Hexachlorobutadiene
Concen: 4.952 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:225 Resp: 24052

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	49.9	74.9



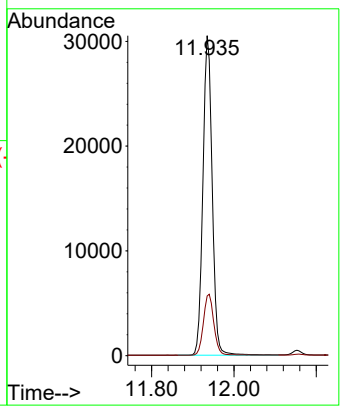


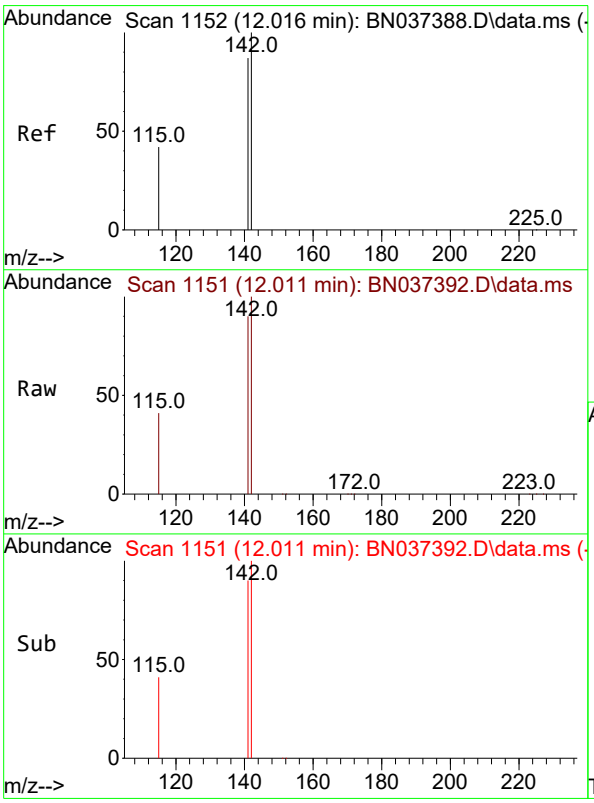
#11
2-Methylnaphthalene-d10
Concen: 6.519 ng
RT: 11.935 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 47934

Ion	Ratio	Lower	Upper
152	100		
151	21.4	18.4	27.6

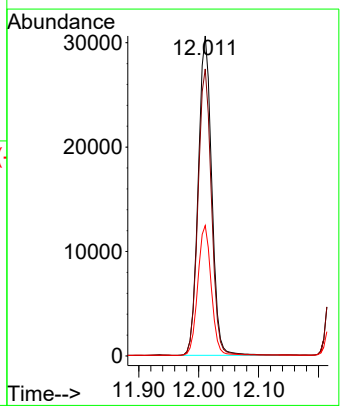


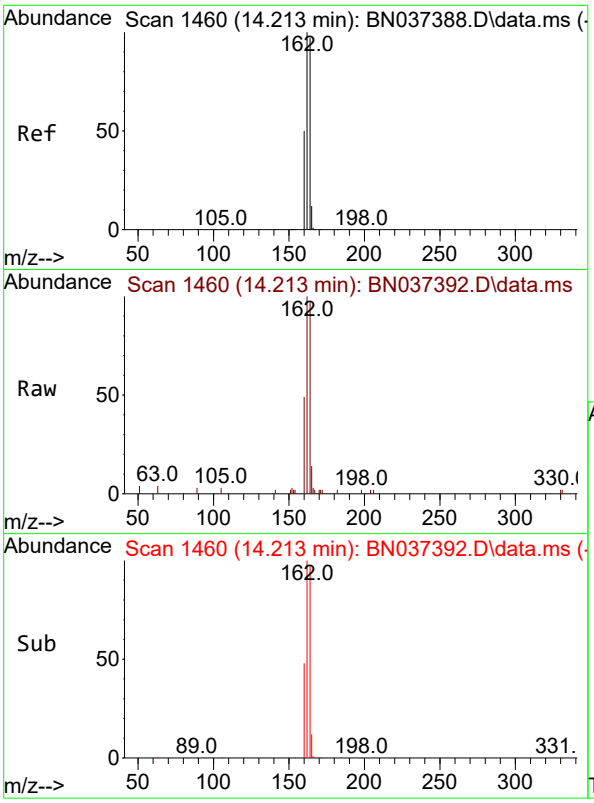


#12
2-Methylnaphthalene
Concen: 5.664 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:142 Resp: 47716

Ion	Ratio	Lower	Upper
142	100		
141	89.7	70.1	105.1
115	40.7	35.8	53.6



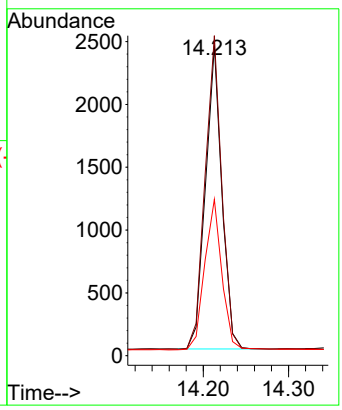


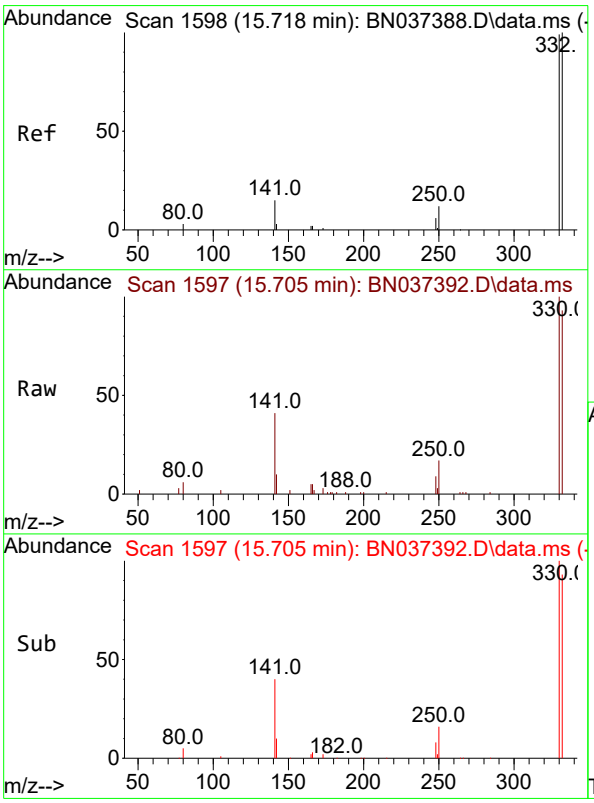
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 3216

Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.6	123.8
160	50.4	42.2	63.2

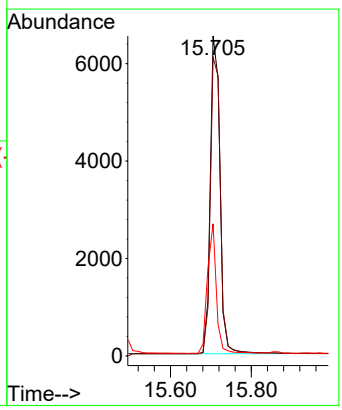


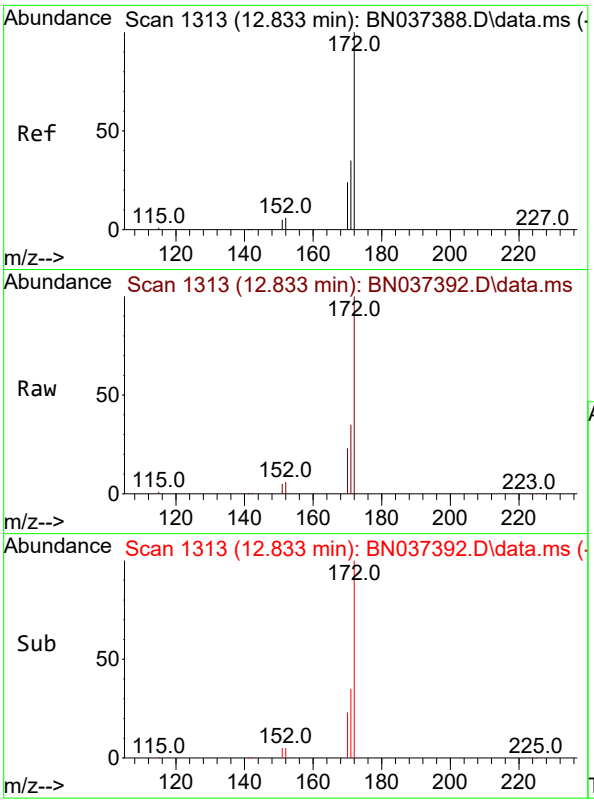


#14
2,4,6-Tribromophenol
Concen: 5.768 ng
RT: 15.705 min Scan# 1597
Delta R.T. -0.013 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:330 Resp: 10881

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.8	116.8
141	37.2	24.0	36.0#



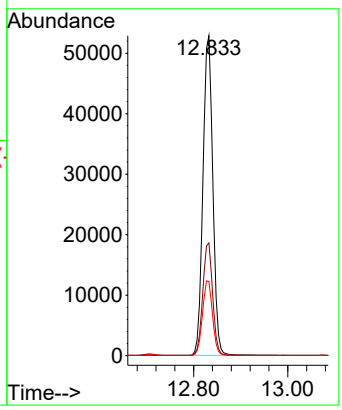


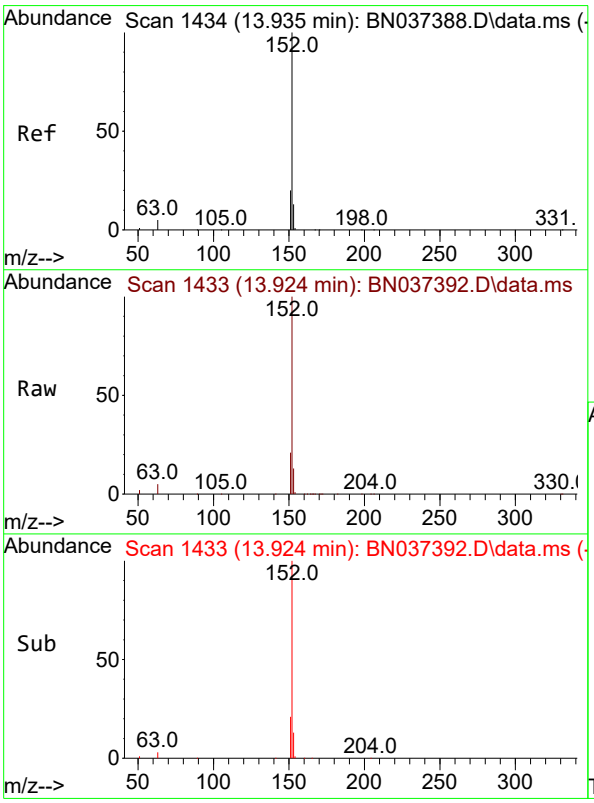
#15
2-Fluorobiphenyl
Concen: 5.529 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 76771

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.8	43.2
170	23.2	20.3	30.5

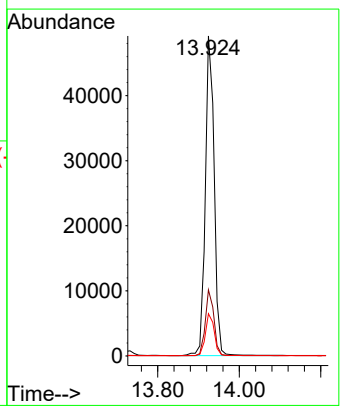


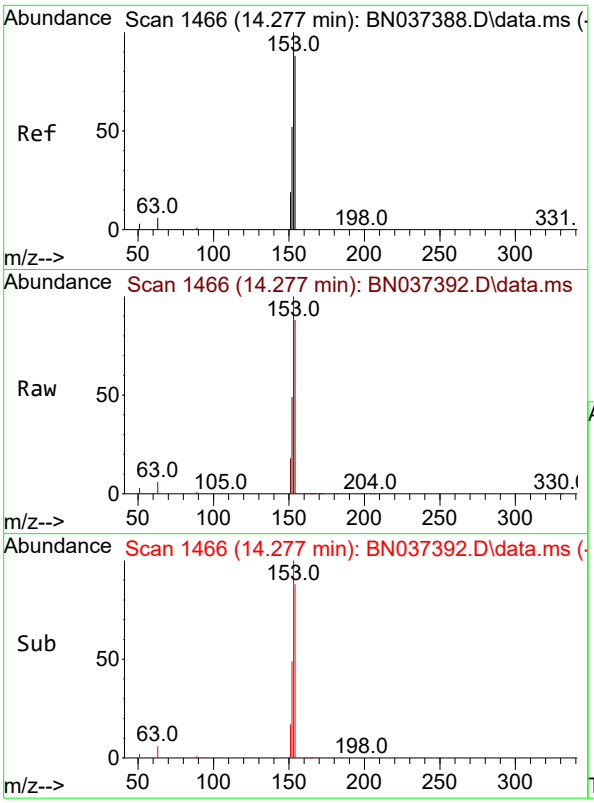


#16
Acenaphthylene
Concen: 5.600 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:152 Resp: 74682

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.1	10.3	15.5



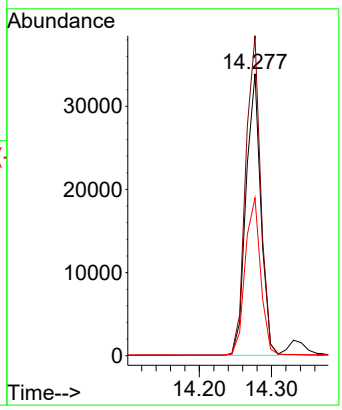


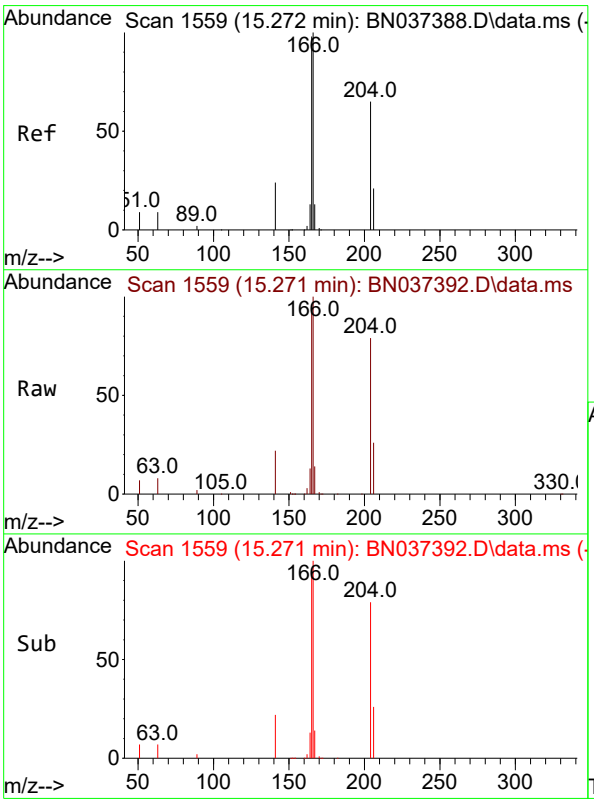
#17
Acenaphthene
Concen: 5.553 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 48364

Ion	Ratio	Lower	Upper
154	100		
153	115.1	94.6	141.8
152	58.6	50.2	75.2

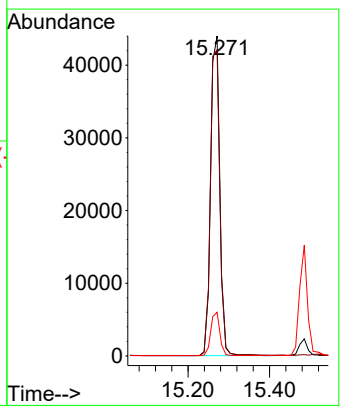


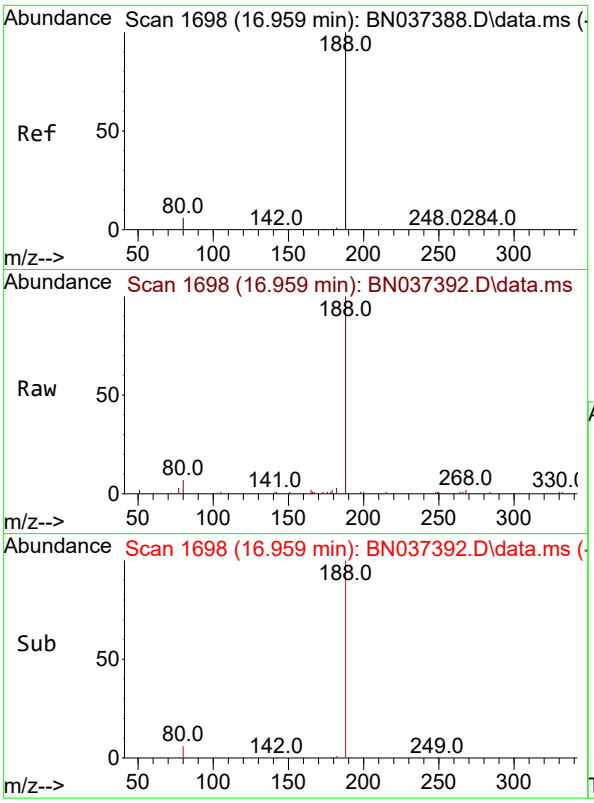


#18
Fluorene
Concen: 5.576 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:166 Resp: 68578

Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.4	119.2
167	13.4	10.6	15.8



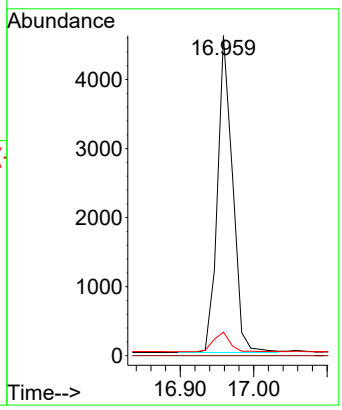


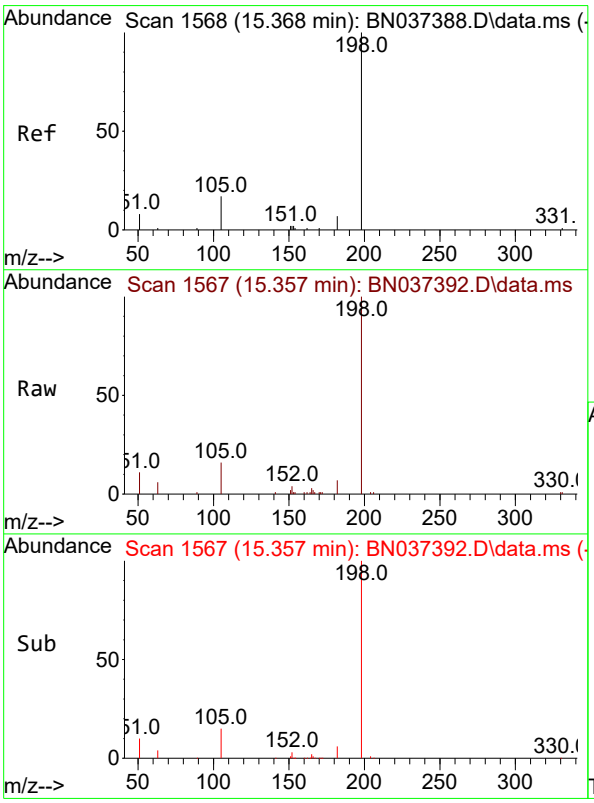
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 6554

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	6.2	9.4

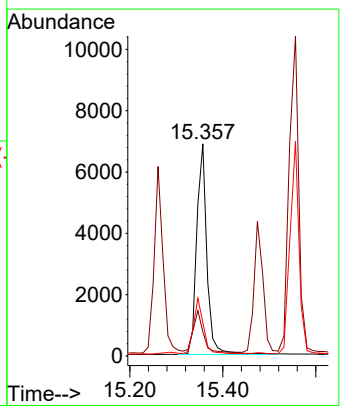


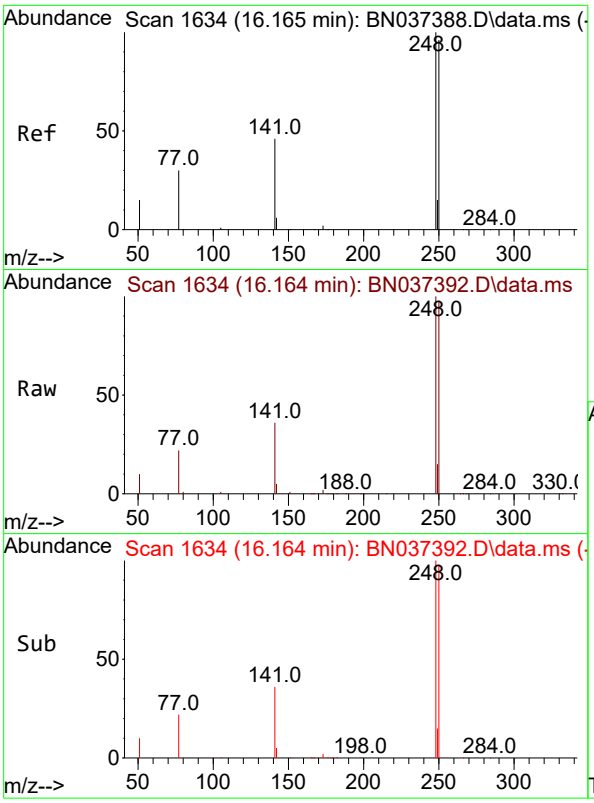


#20
4,6-Dinitro-2-methylphenol
Concen: 6.252 ng
RT: 15.357 min Scan# 1567
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:198 Resp: 10525

Ion	Ratio	Lower	Upper
198	100		
51	11.4	38.8	58.2#
105	15.8	29.8	44.6#



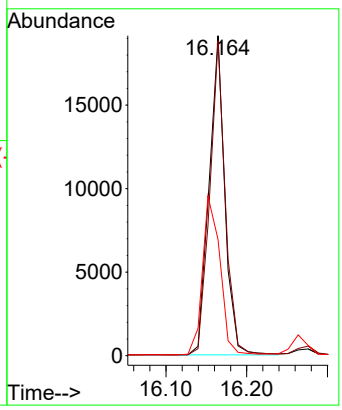


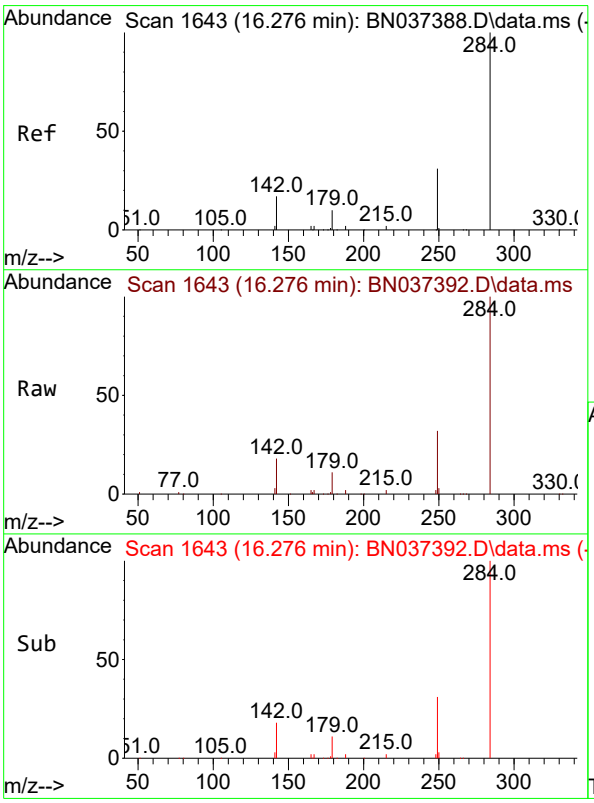
#21
4-Bromophenyl-phenylether
Concen: 5.594 ng
RT: 16.164 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 25866

Ion	Ratio	Lower	Upper
248	100		
250	98.4	77.0	115.4
141	36.3	38.7	58.1#

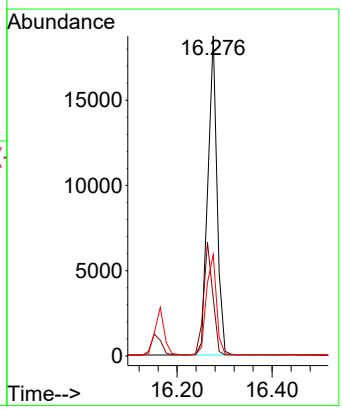


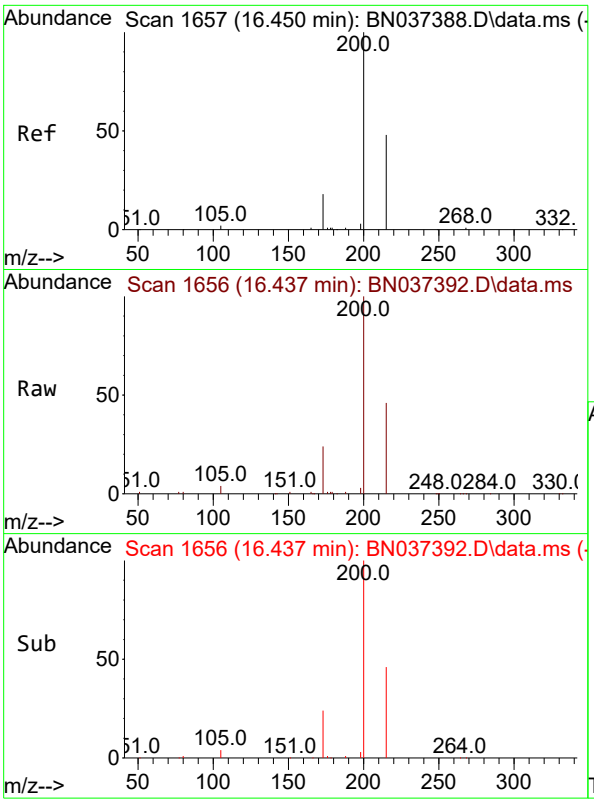


#22
Hexachlorobenzene
Concen: 5.120 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:284 Resp: 25453

Ion	Ratio	Lower	Upper
284	100		
142	35.3	27.2	40.8
249	34.4	26.7	40.1



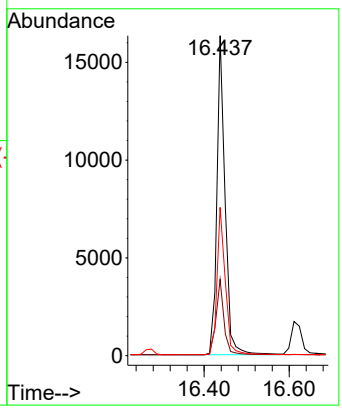


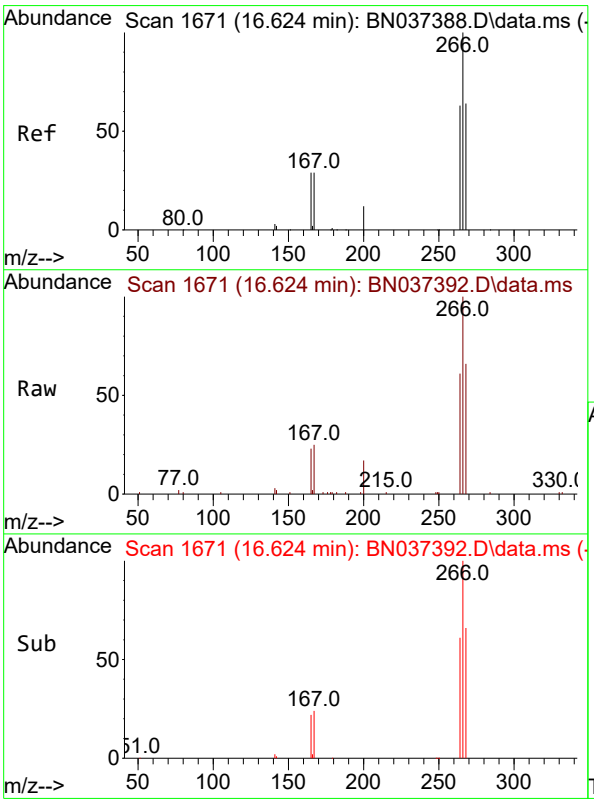
#23
Atrazine
Concen: 5.947 ng
RT: 16.437 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 21783

Ion	Ratio	Lower	Upper
200	100		
173	23.9	19.0	28.6
215	46.3	41.3	61.9

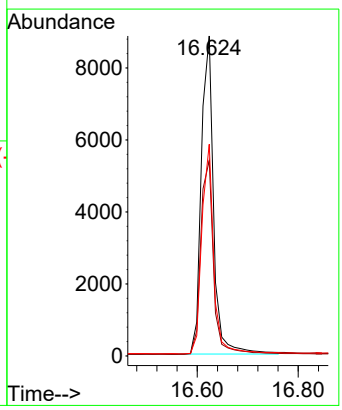


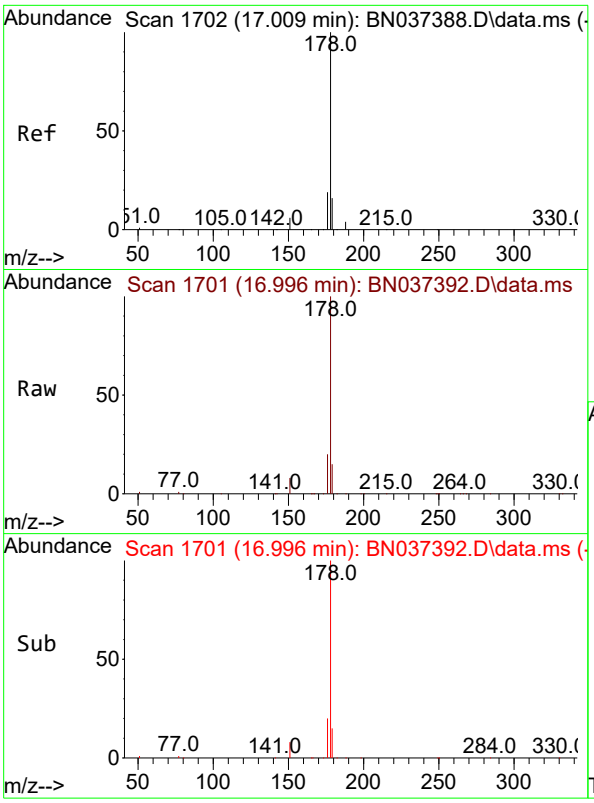


#24
Pentachlorophenol
Concen: 5.574 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:266 Resp: 14964

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.2	73.8
268	64.1	54.2	81.4



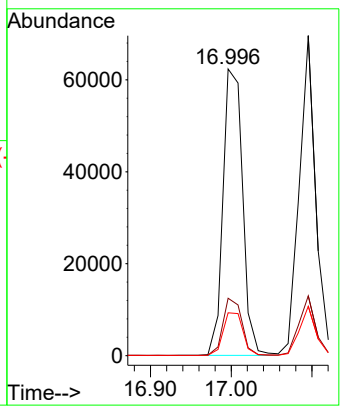


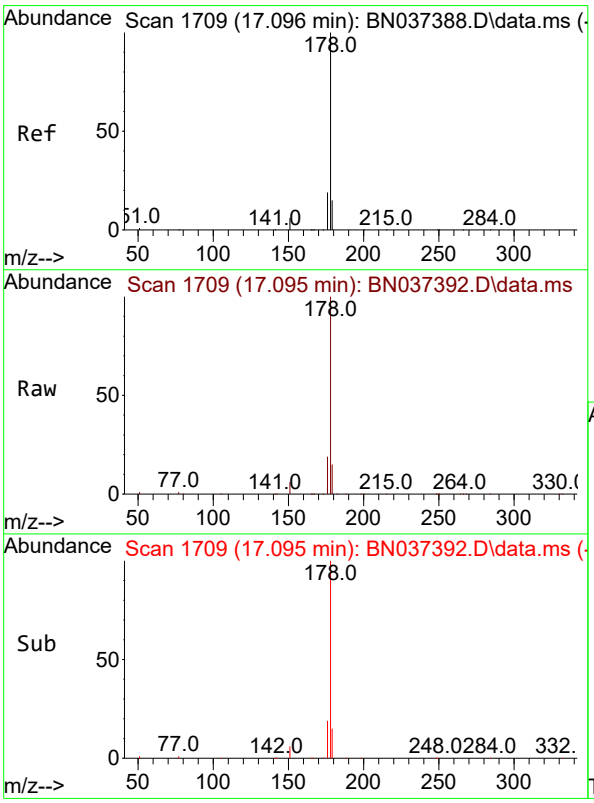
#25
Phenanthrene
Concen: 5.708 ng
RT: 16.996 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 105409

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.6	23.4
179	15.2	12.8	19.2

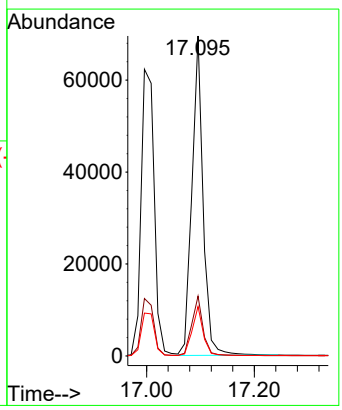


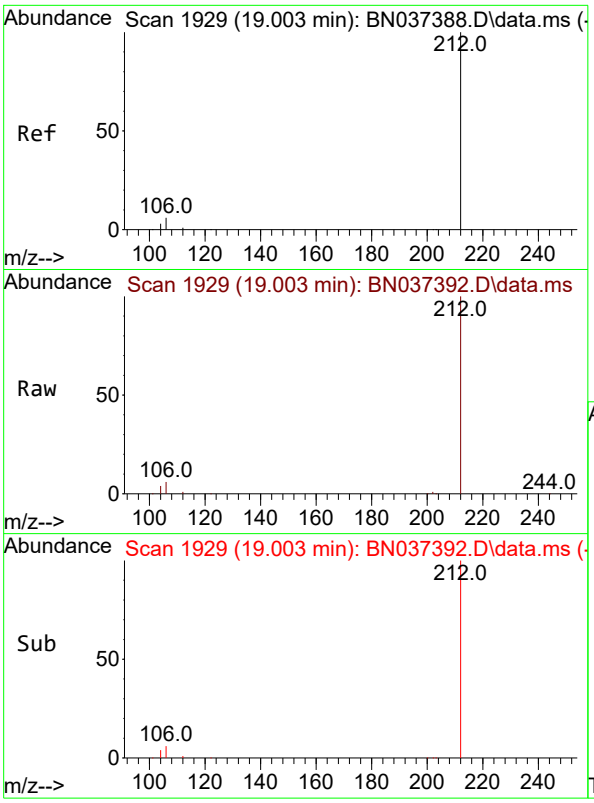


#26
Anthracene
Concen: 5.897 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:178 Resp: 100113

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.3	12.4	18.6



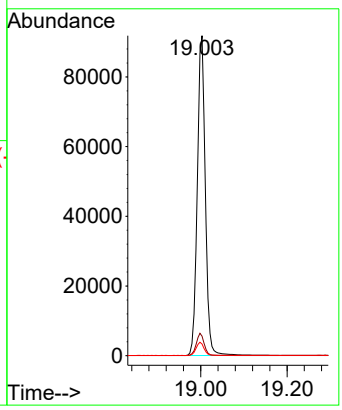


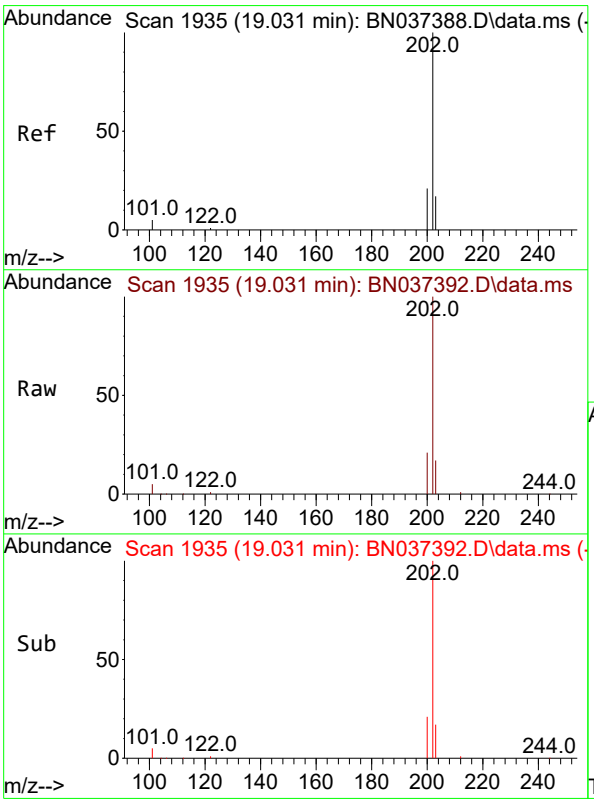
#27
Fluoranthene-d10
Concen: 6.313 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 118571

Ion	Ratio	Lower	Upper
212	100		
106	6.8	4.5	6.7#
104	4.1	2.7	4.1#

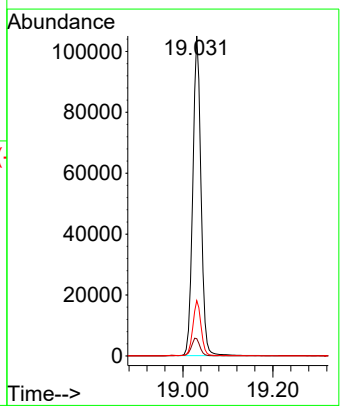


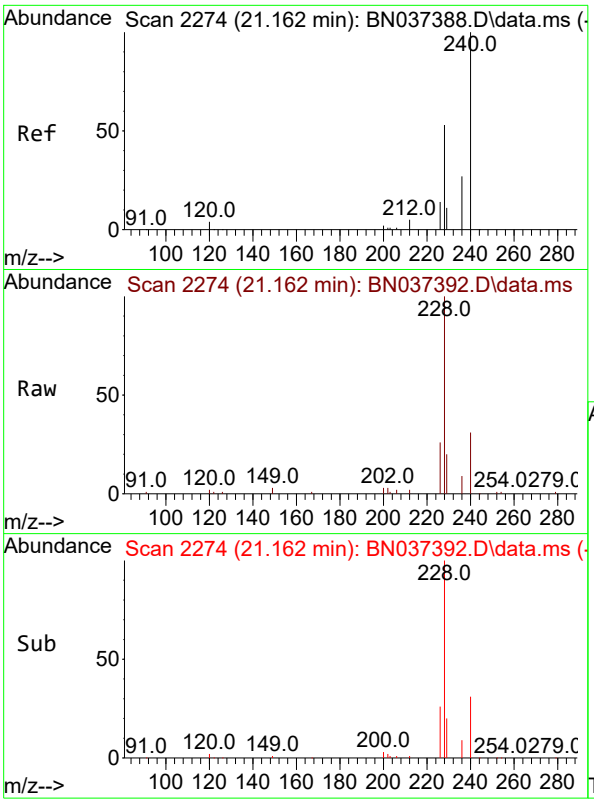


#28
Fluoranthene
Concen: 5.641 ng
RT: 19.031 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:202 Resp: 133030

Ion	Ratio	Lower	Upper
202	100		
101	5.8	3.8	5.6#
203	17.3	13.5	20.3



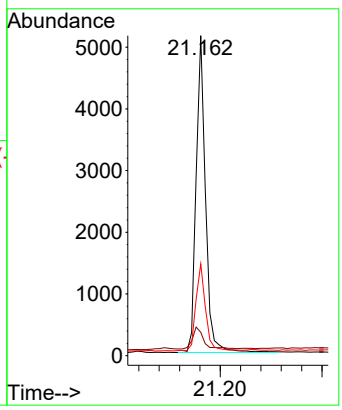


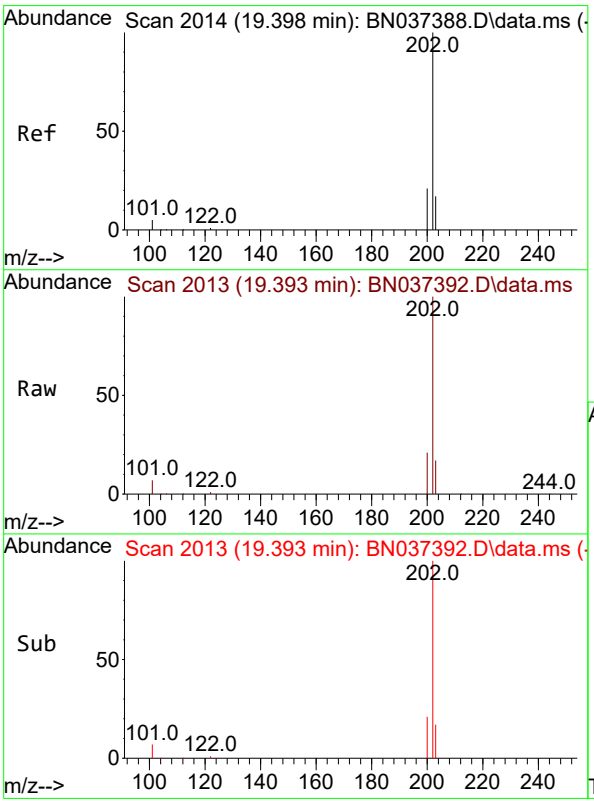
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 6601

Ion	Ratio	Lower	Upper
240	100		
120	7.3	5.3	7.9
236	28.7	22.7	34.1

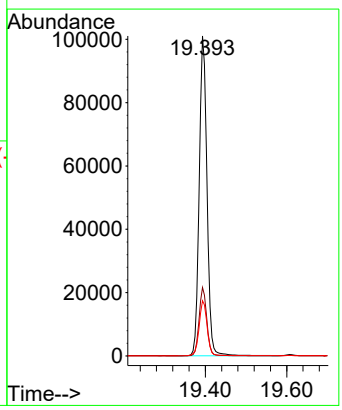


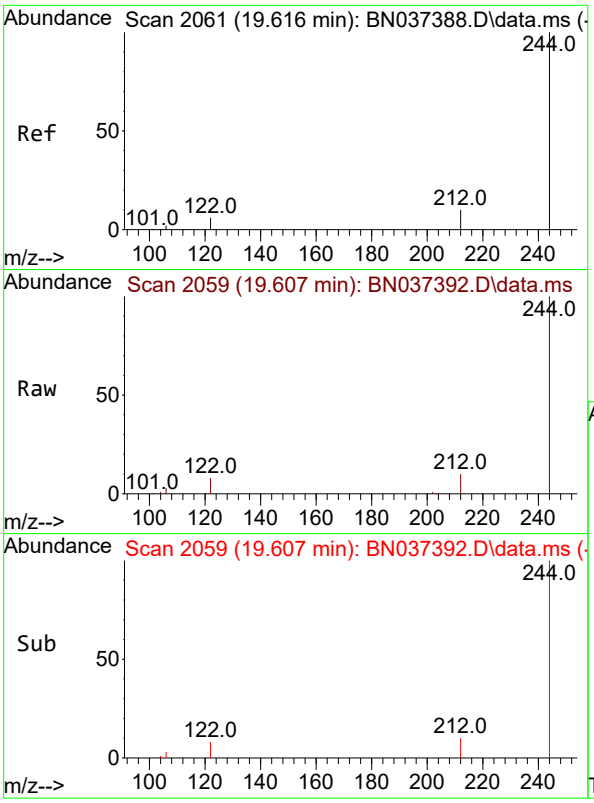


#30
Pyrene
Concen: 5.324 ng
RT: 19.393 min Scan# 2013
Delta R.T. -0.005 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:202 Resp: 132986

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.5	24.7
203	17.7	14.2	21.2



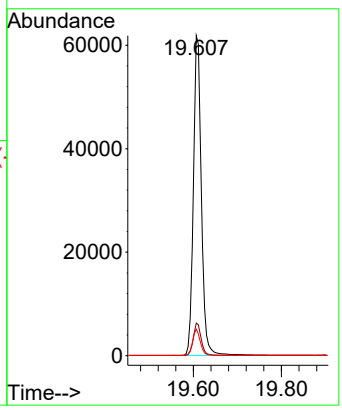


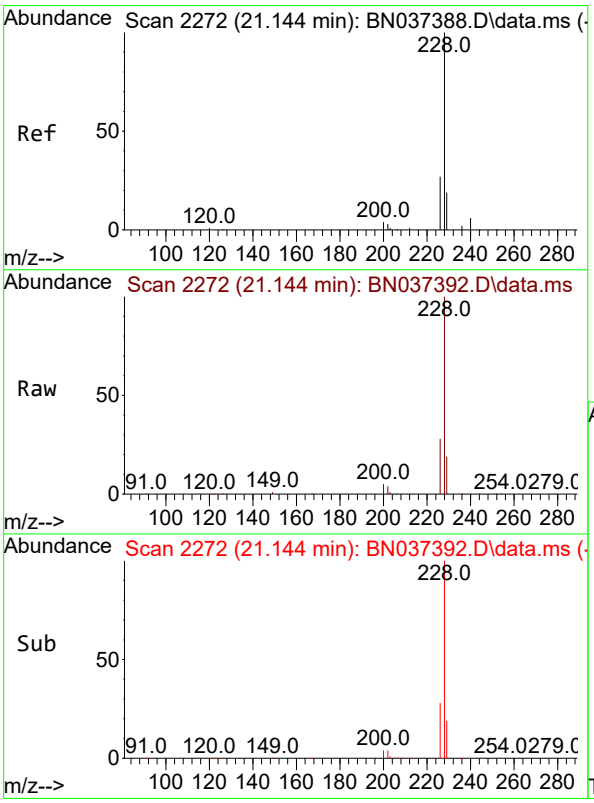
#31
Terphenyl-d14
Concen: 5.527 ng
RT: 19.607 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 77795

Ion	Ratio	Lower	Upper
244	100		
212	10.2	9.1	13.7
122	8.3	6.3	9.5

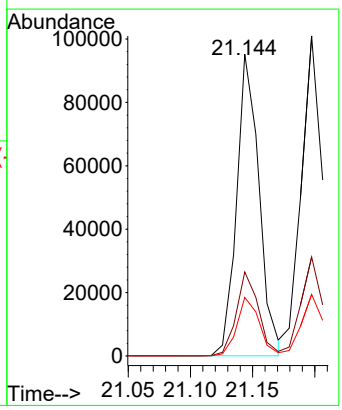


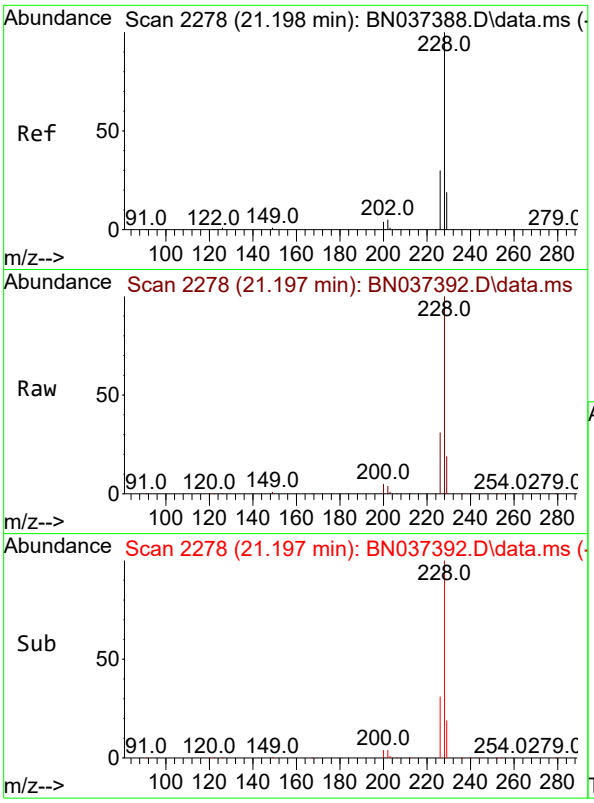


#32
Benzo(a)anthracene
Concen: 5.754 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:228 Resp: 119334

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	34.0
229	19.4	16.2	24.2



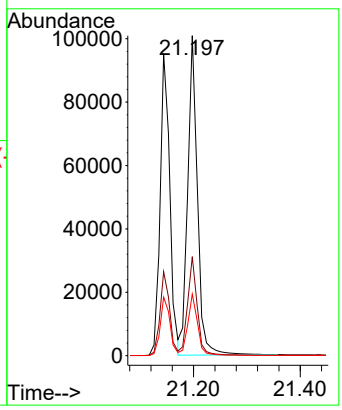


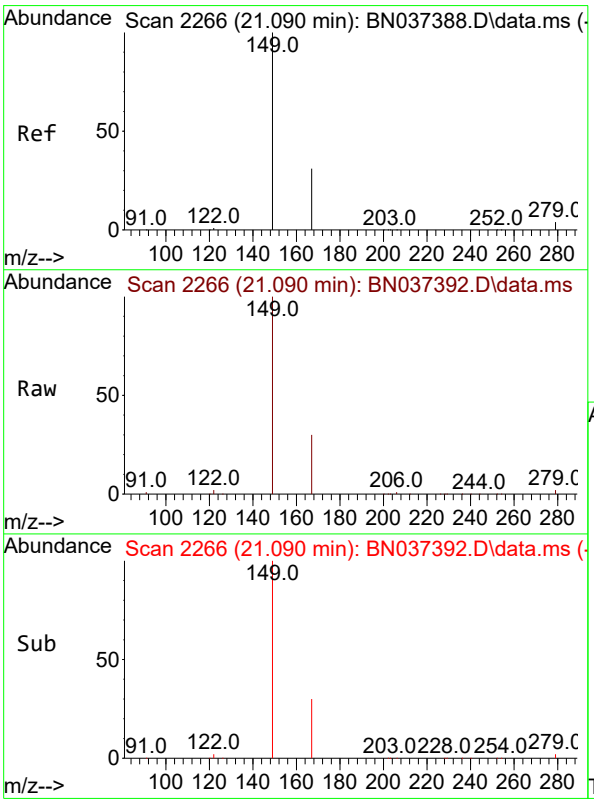
#33
Chrysene
Concen: 4.982 ng
RT: 21.197 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 127936

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	19.3	16.1	24.1

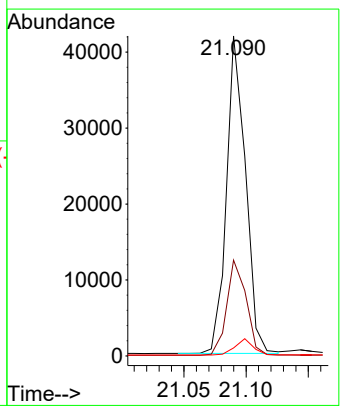


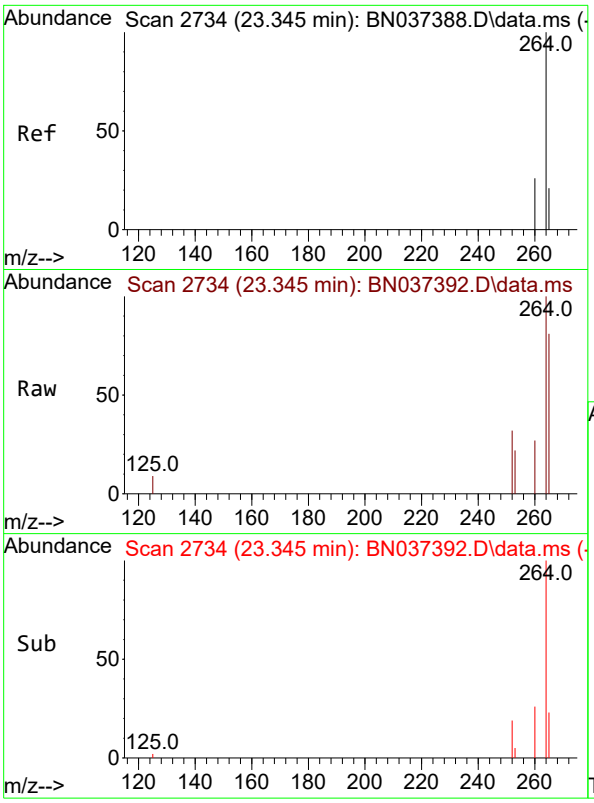


#34
Bis(2-ethylhexyl)phthalate
Concen: 5.397 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:149 Resp: 44321

Ion	Ratio	Lower	Upper
149	100		
167	30.9	24.8	37.2
279	5.0	5.0	7.6#



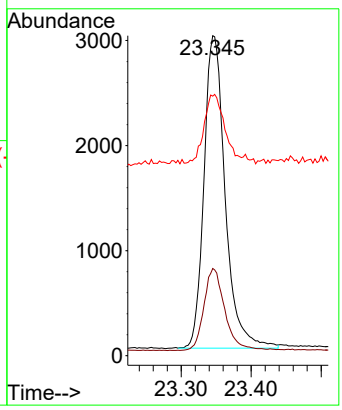


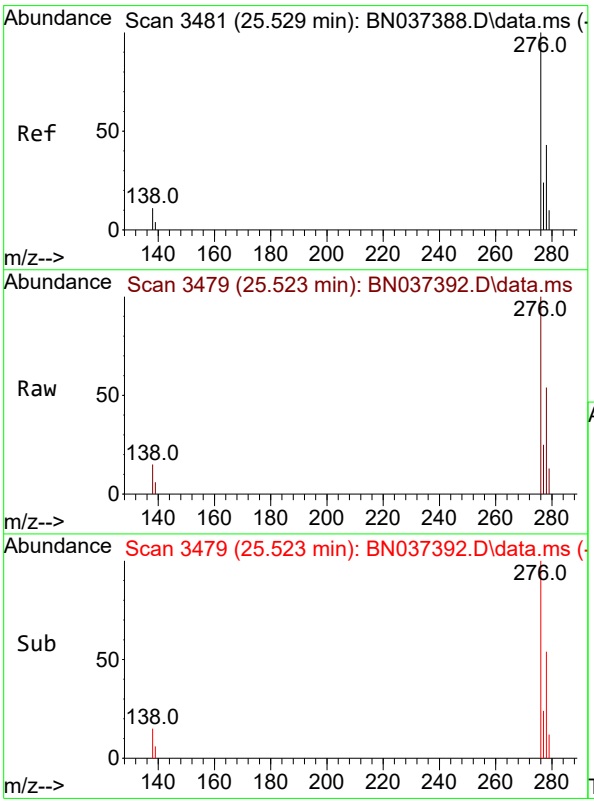
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 6264

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.0
265	81.1	56.2	84.4

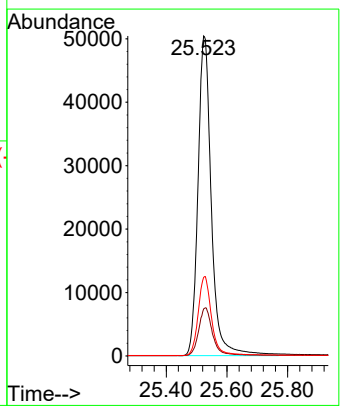


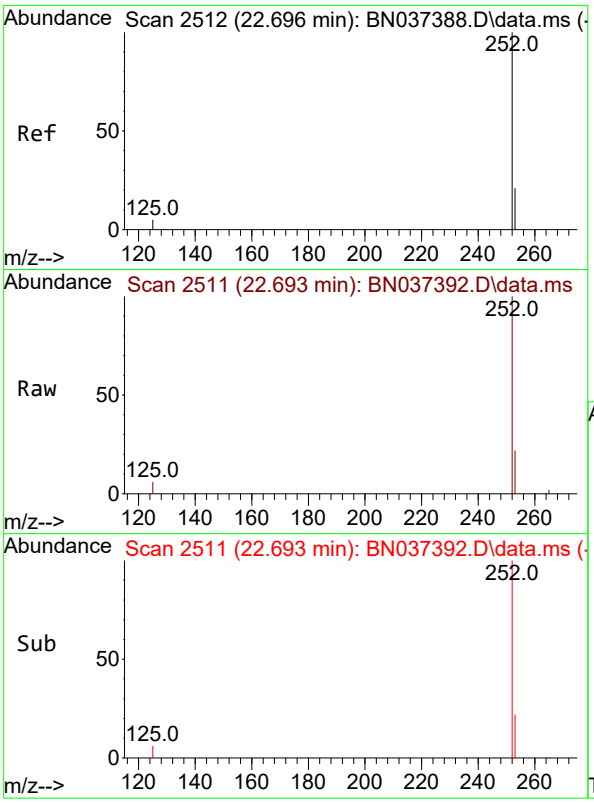


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.833 ng
RT: 25.523 min Scan# 3479
Delta R.T. -0.006 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:276 Resp: 154039

Ion	Ratio	Lower	Upper
276	100		
138	15.3	8.5	12.7#
277	24.9	19.7	29.5



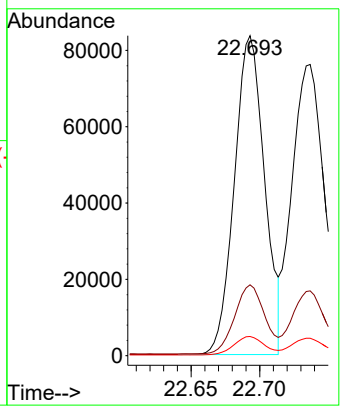


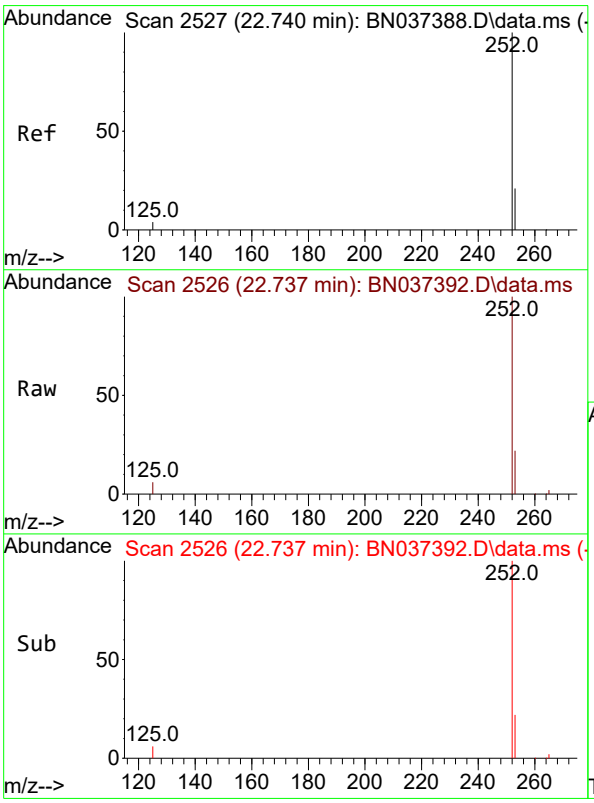
#37
Benzo(b)fluoranthene
Concen: 5.787 ng
RT: 22.693 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 127810

Ion	Ratio	Lower	Upper
252	100		
253	22.2	22.8	34.2#
125	6.0	6.2	9.4#

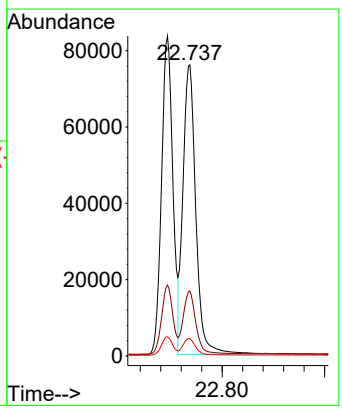


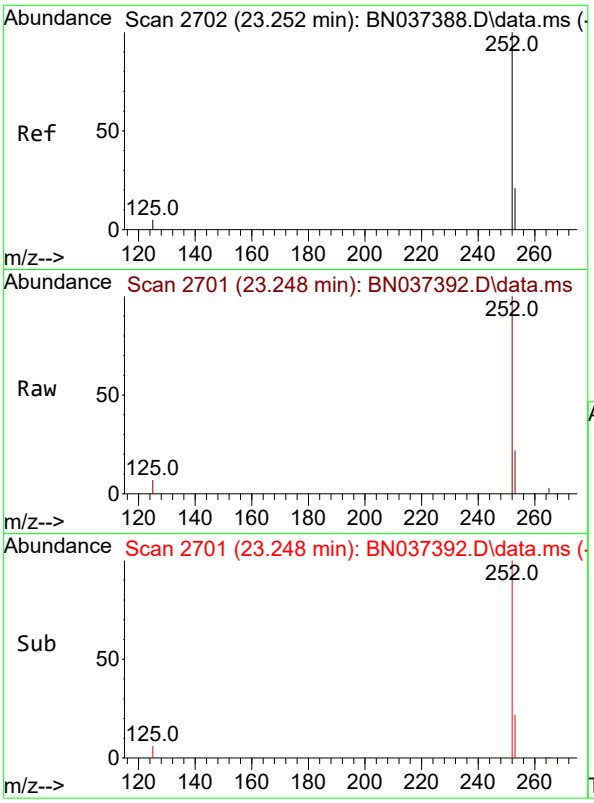


#38
Benzo(k)fluoranthene
Concen: 5.630 ng
RT: 22.737 min Scan# 2526
Delta R.T. -0.003 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:252 Resp: 132887

Ion	Ratio	Lower	Upper
252	100		
253	22.3	23.2	34.8#
125	6.0	6.0	9.0#



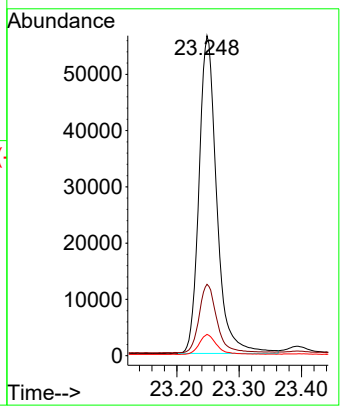


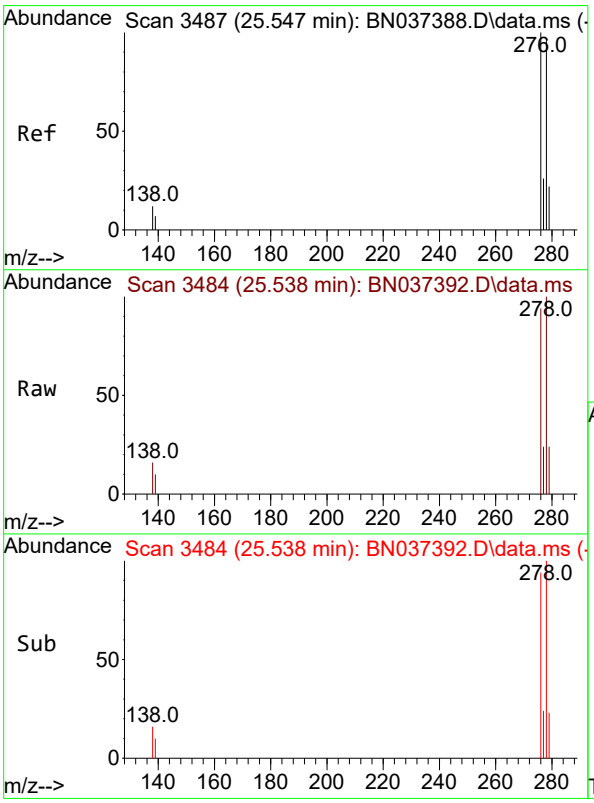
#39
Benzo(a)pyrene
Concen: 5.686 ng
RT: 23.248 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 111691

Ion	Ratio	Lower	Upper
252	100		
253	22.3	25.6	38.4#
125	6.6	7.5	11.3#

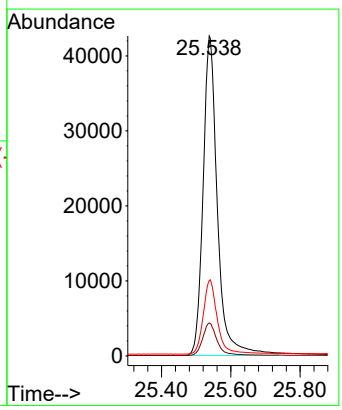


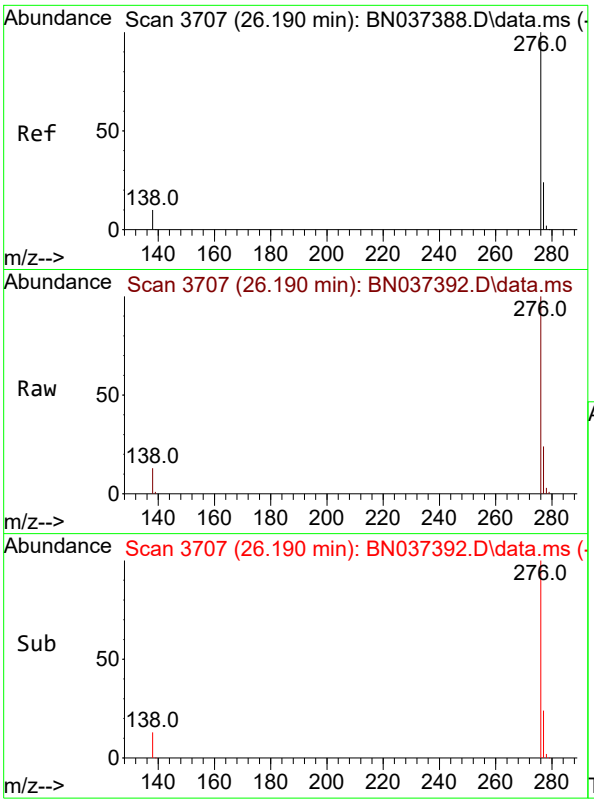


#40
Dibenzo(a,h)anthracene
Concen: 6.025 ng
RT: 25.538 min Scan# 3484
Delta R.T. -0.009 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:278 Resp: 122232

Ion	Ratio	Lower	Upper
278	100		
139	10.3	8.5	12.7
279	23.6	27.5	41.3#



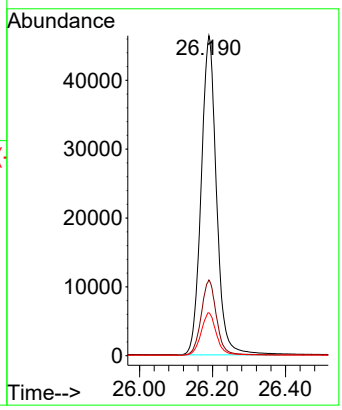


#41
Benzo(g,h,i)perylene
Concen: 5.570 ng
RT: 26.190 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 135052

Ion	Ratio	Lower	Upper
276	100		
277	23.6	21.0	31.4
138	13.4	9.6	14.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	2171	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4836	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	3065	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	6127	0.400	ng		# 0.01
29) Chrysene-d12	21.162	240	5019	0.400	ng		# 0.00
35) Perylene-d12	23.348	264	4884	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1574	0.376	ng		0.00
5) Phenol-d6	6.744	99	1620	0.373	ng		0.00
8) Nitrobenzene-d5	8.717	82	1646	0.425	ng		0.00
11) 2-Methylnaphthalene-d10	11.940	152	3153	0.421	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	623	0.347	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	6004	0.454	ng		0.00
27) Fluoranthene-d10	19.003	212	6867	0.391	ng		0.00
31) Terphenyl-d14	19.616	244	4960	0.464	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	1015	0.493	ng		94
3) n-Nitrosodimethylamine	3.422	42	847	0.417	ng	#	88
6) bis(2-Chloroethyl)ether	7.004	93	1776	0.460	ng		99
9) Naphthalene	10.394	128	5176	0.416	ng		99
10) Hexachlorobutadiene	10.682	225	2038	0.412	ng	#	99
12) 2-Methylnaphthalene	12.016	142	3148	0.367	ng		98
16) Acenaphthylene	13.935	152	5693	0.448	ng		99
17) Acenaphthene	14.277	154	3435	0.414	ng		99
18) Fluorene	15.272	166	4775	0.407	ng		100
20) 4,6-Dinitro-2-methylph...	15.378	198	497	0.316	ng	#	86
21) 4-Bromophenyl-phenylether	16.165	248	1722	0.398	ng	#	93
22) Hexachlorobenzene	16.276	284	1984	0.427	ng		97
23) Atrazine	16.450	200	1384	0.404	ng		97
24) Pentachlorophenol	16.624	266	775	0.309	ng		98
25) Phenanthrene	17.009	178	7070	0.410	ng		99
26) Anthracene	17.095	178	6496	0.409	ng		99
28) Fluoranthene	19.035	202	8423	0.382	ng		99
30) Pyrene	19.398	202	8354	0.440	ng		99
32) Benzo(a)anthracene	21.153	228	6494	0.412	ng		99
33) Chrysene	21.198	228	7943	0.407	ng		99
34) Bis(2-ethylhexyl)phtha...	21.090	149	2775	0.444	ng		99
36) Indeno(1,2,3-cd)pyrene	25.532	276	8543	0.415	ng		96
37) Benzo(b)fluoranthene	22.699	252	6764	0.393	ng		96
38) Benzo(k)fluoranthene	22.743	252	8109	0.441	ng	#	96
39) Benzo(a)pyrene	23.254	252	6621	0.432	ng	#	94
40) Dibenzo(a,h)anthracene	25.552	278	6443	0.407	ng		96
41) Benzo(g,h,i)perylene	26.193	276	7497	0.397	ng		99

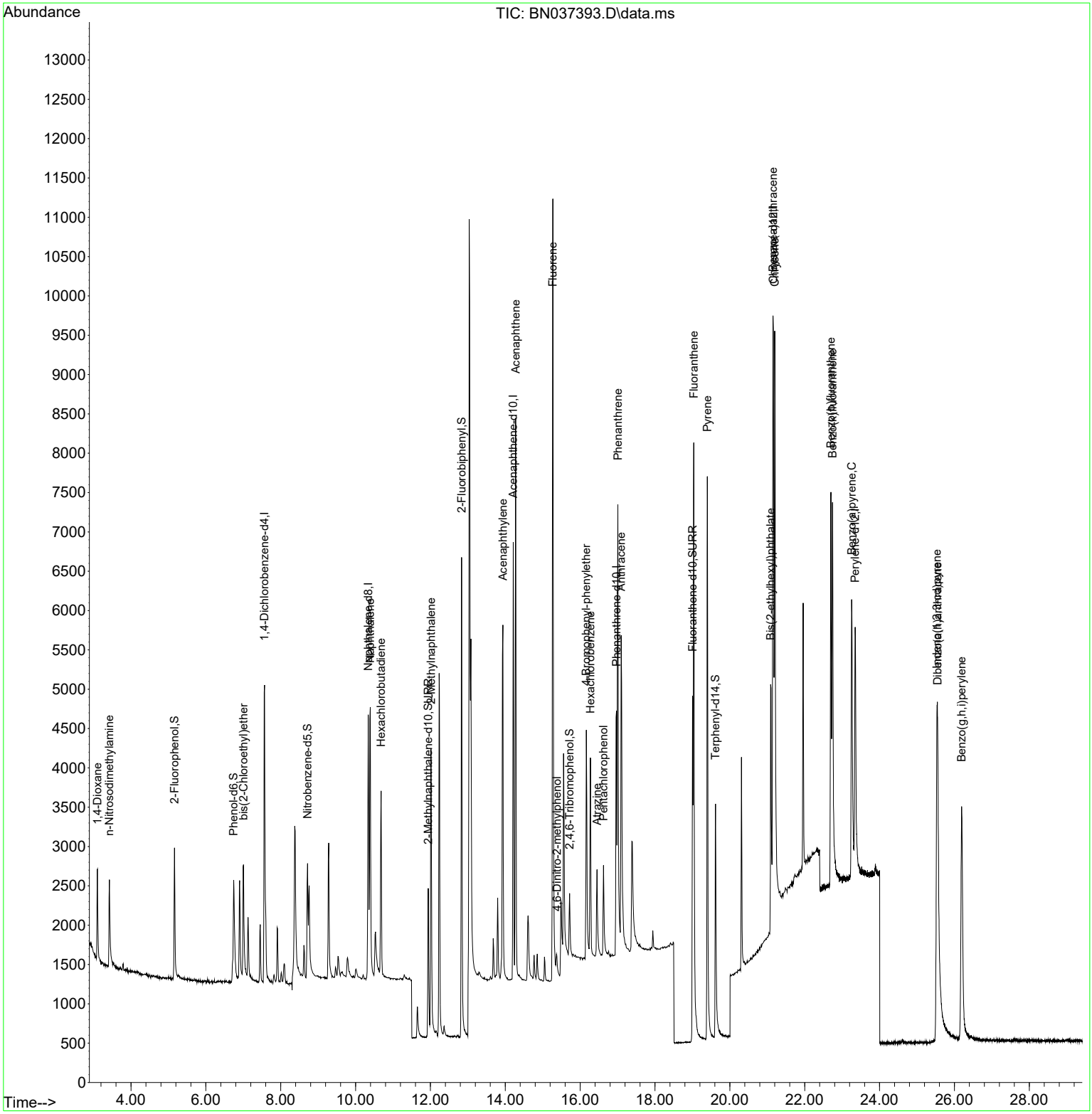
(#) = qualifier out of range (m) = manual integration (+) = signals summed

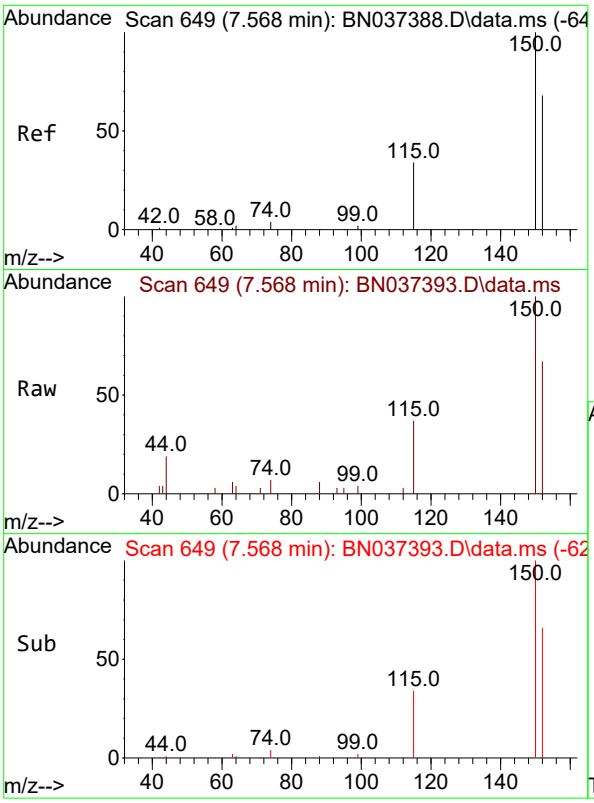
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



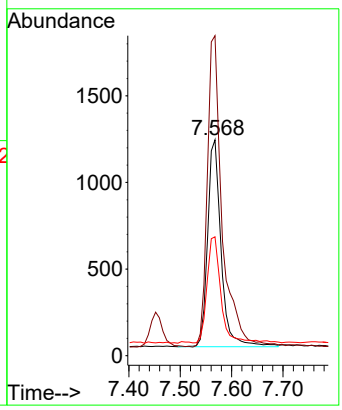


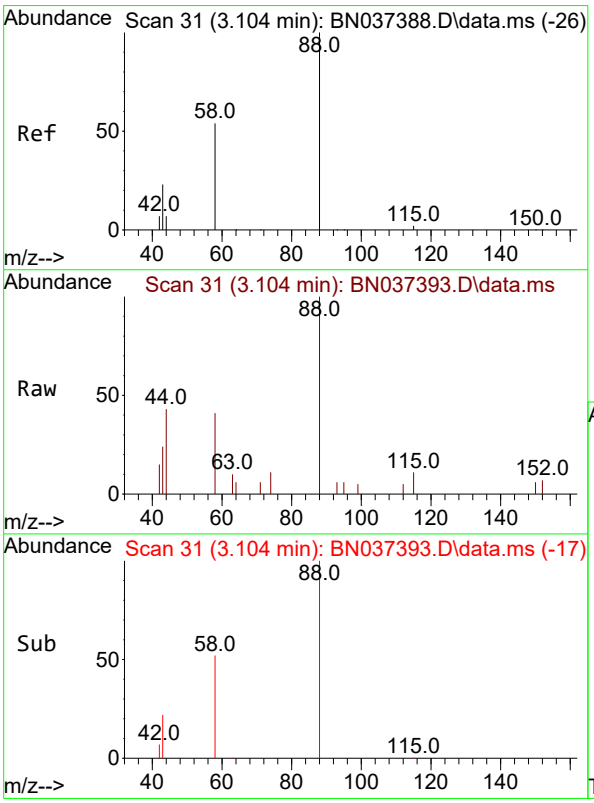
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:152 Resp: 2171

Ion	Ratio	Lower	Upper
152	100		
150	148.2	116.2	174.2
115	55.1	42.9	64.3

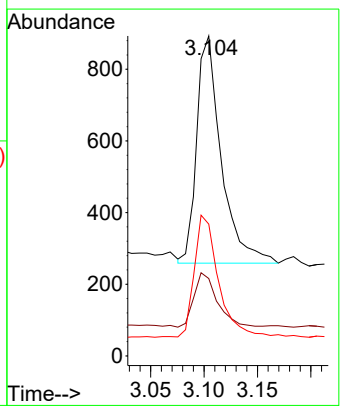


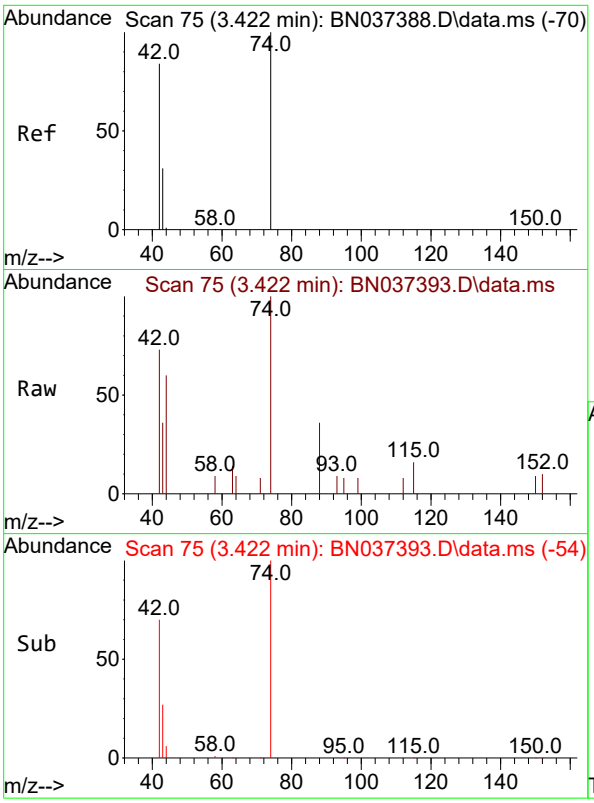


#2
1,4-Dioxane
Concen: 0.493 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 88 Resp: 1015

Ion	Ratio	Lower	Upper
88	100		
43	23.0	21.6	32.4
58	53.6	45.9	68.9



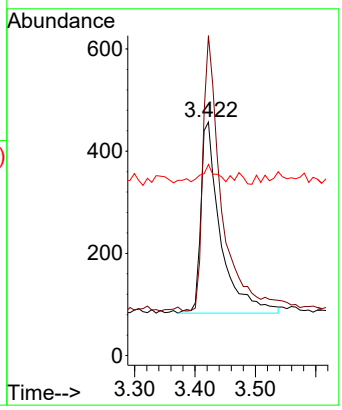


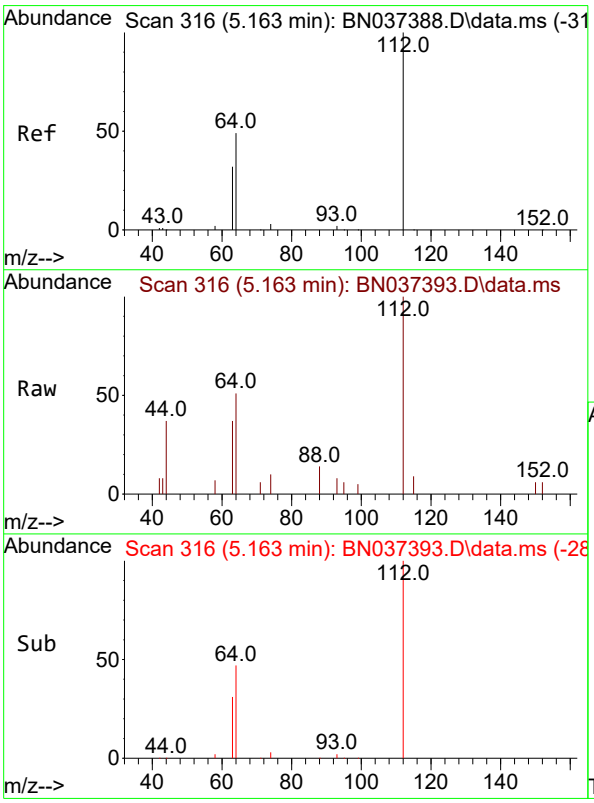
#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.422 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion: 42 Resp: 847

Ion	Ratio	Lower	Upper
42	100		
74	136.5	97.8	146.8
44	7.3	8.7	13.1#

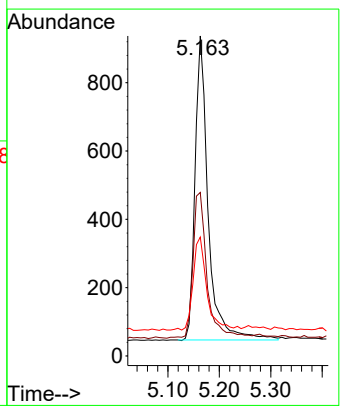


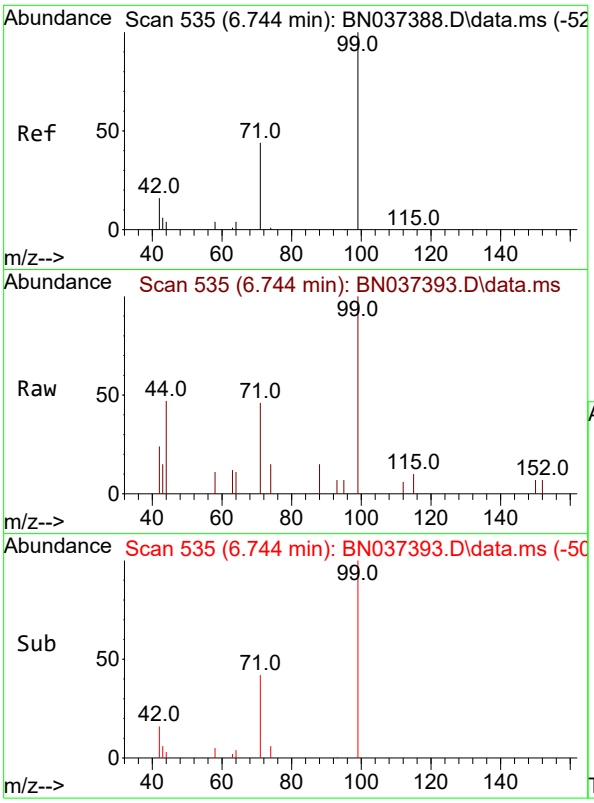


#4
2-Fluorophenol
Concen: 0.376 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:112 Resp: 1574

Ion	Ratio	Lower	Upper
112	100		
64	51.4	40.3	60.5
63	31.5	26.1	39.1



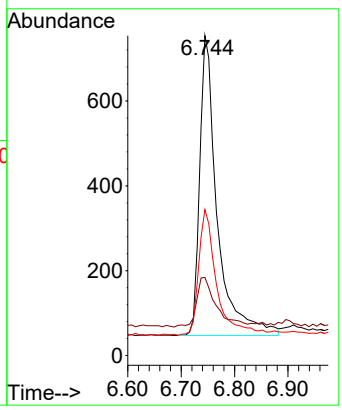


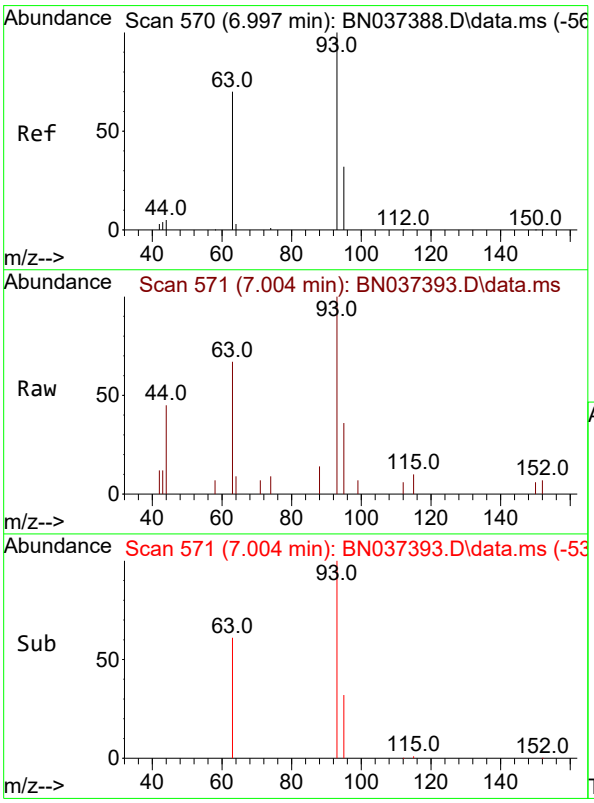
#5
Phenol-d6
Concen: 0.373 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion: 99 Resp: 1620

Ion	Ratio	Lower	Upper
99	100		
42	18.6	15.6	23.4
71	42.7	35.8	53.8

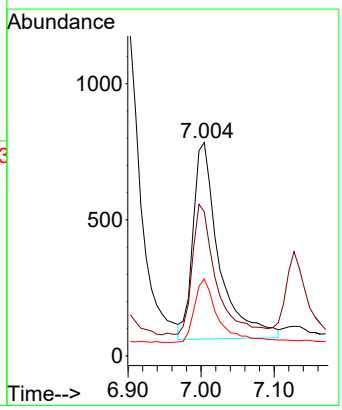


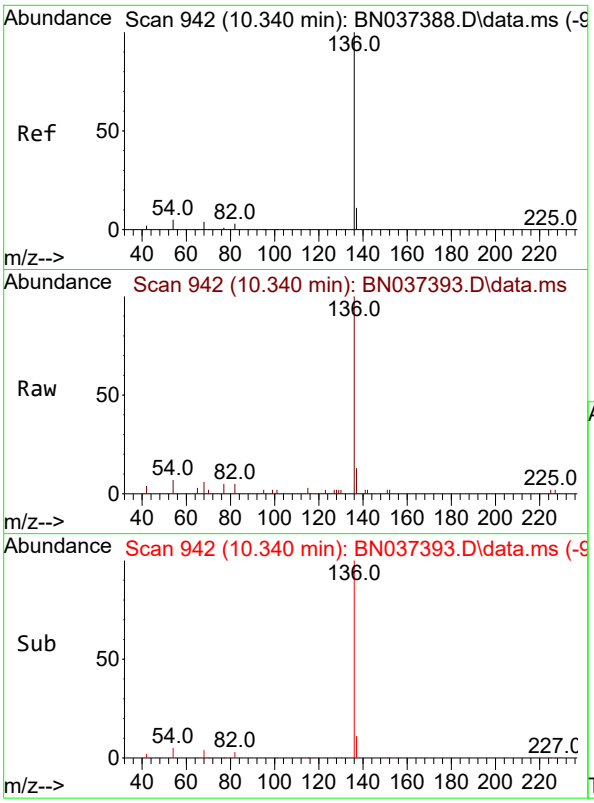


#6
bis(2-Chloroethyl)ether
Concen: 0.460 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 93 Resp: 1776

Ion	Ratio	Lower	Upper
93	100		
63	60.8	49.6	74.4
95	30.5	23.9	35.9



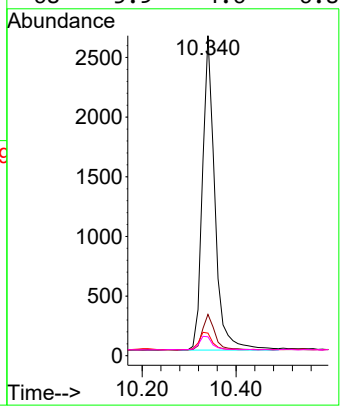


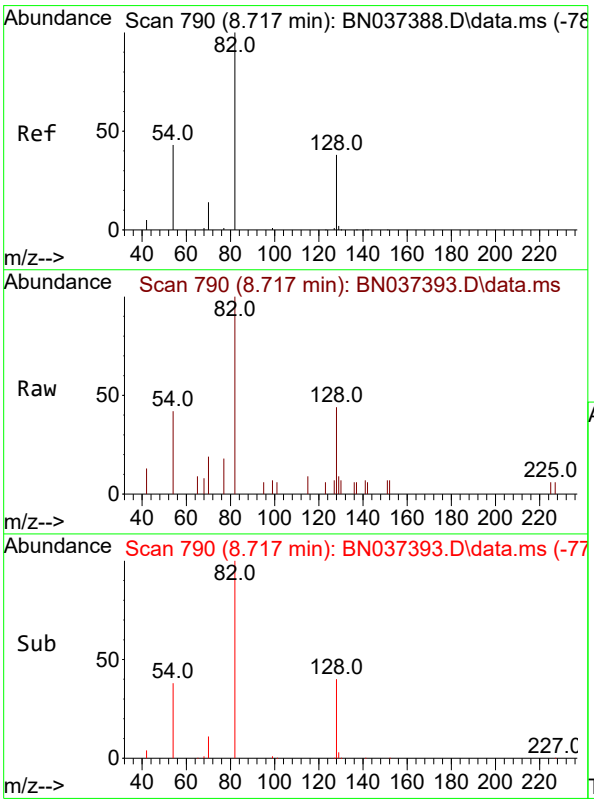
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:136 Resp: 4836

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	7.1	5.6	8.4
68	5.9	4.6	6.8

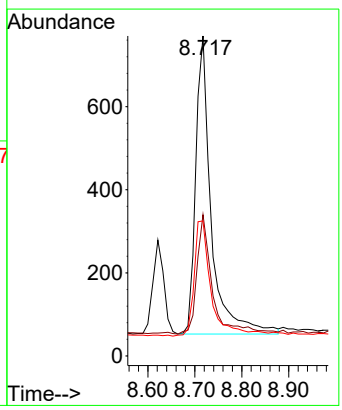


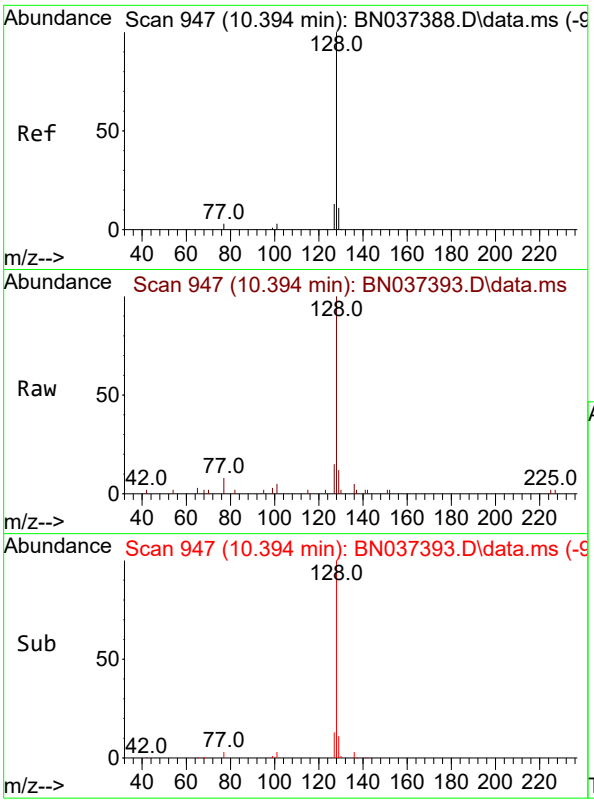


#8
Nitrobenzene-d5
Concen: 0.425 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 82 Resp: 1646

Ion	Ratio	Lower	Upper
82	100		
128	44.2	34.0	51.0
54	42.2	37.7	56.5



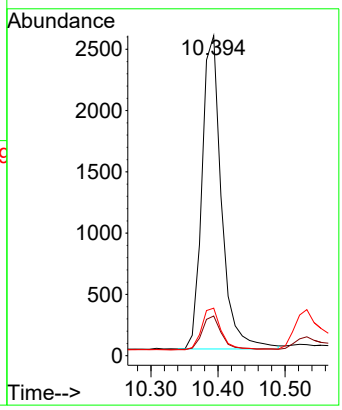


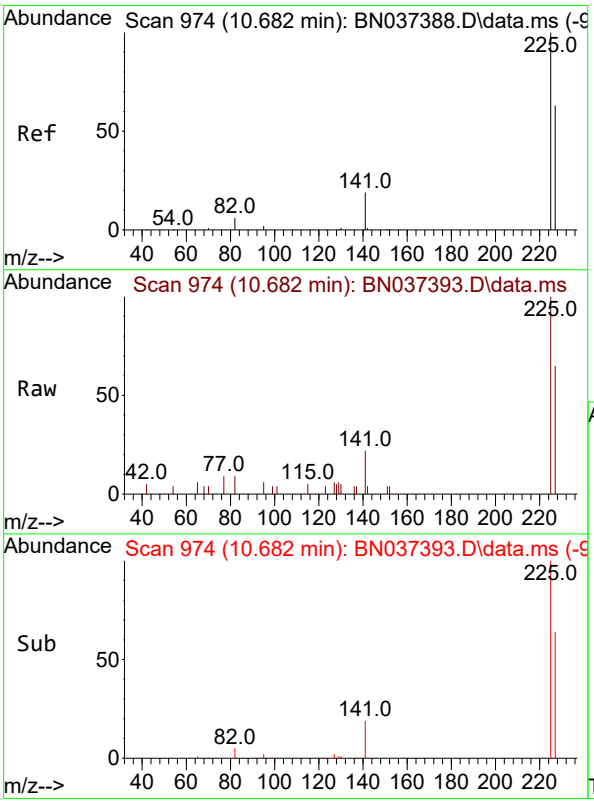
#9
Naphthalene
Concen: 0.416 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:128 Resp: 5176

Ion	Ratio	Lower	Upper
128	100		
129	12.4	10.4	15.6
127	14.9	12.2	18.4

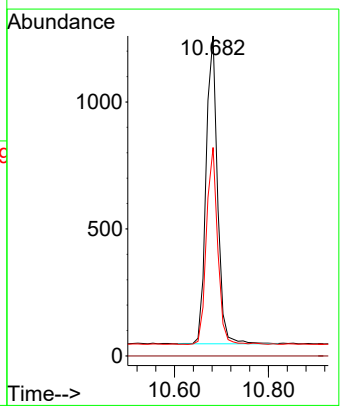


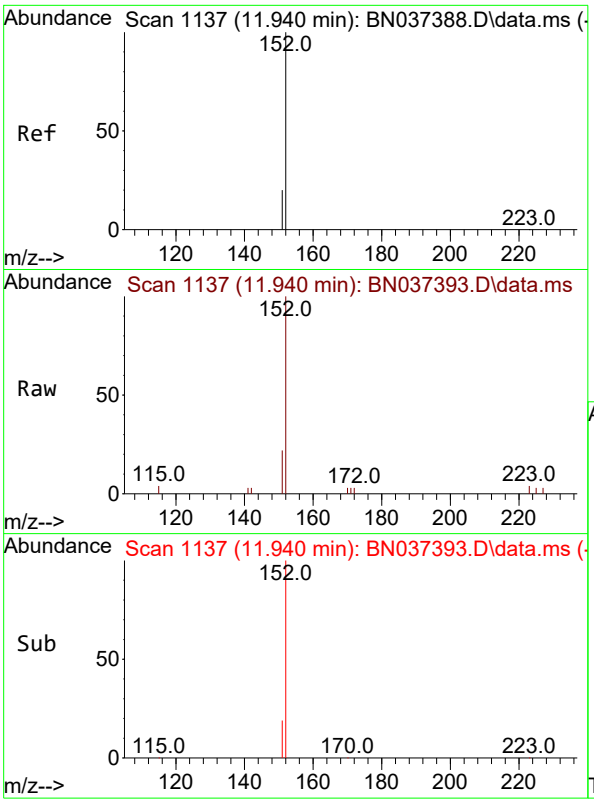


#10
Hexachlorobutadiene
Concen: 0.412 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:225 Resp: 2038

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	49.9	74.9



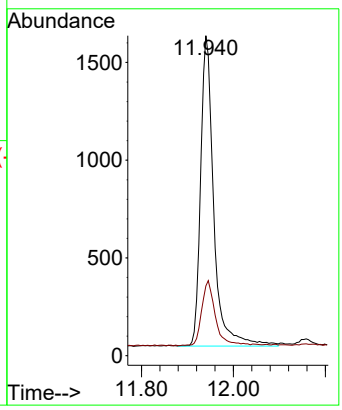


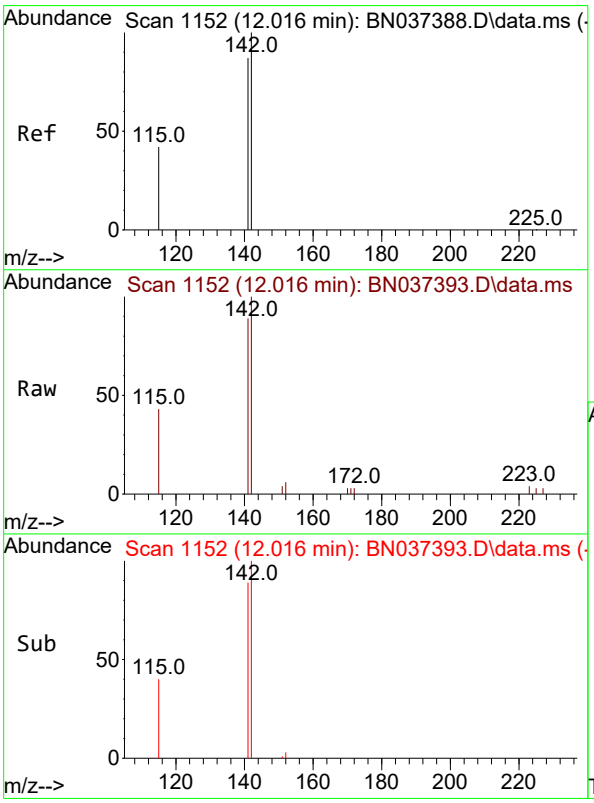
#11
2-Methylnaphthalene-d10
Concen: 0.421 ng
RT: 11.940 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:152 Resp: 3153

Ion	Ratio	Lower	Upper
152	100		
151	21.6	18.4	27.6

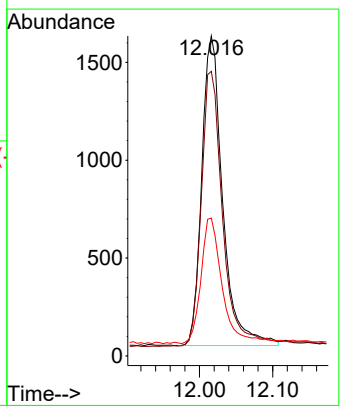


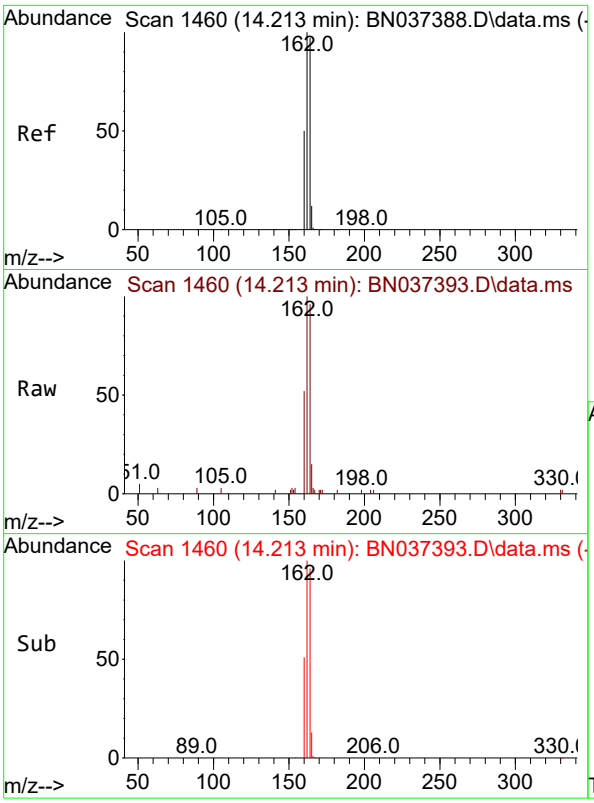


#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:142 Resp: 3148

Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.1	105.1
115	43.1	35.8	53.6



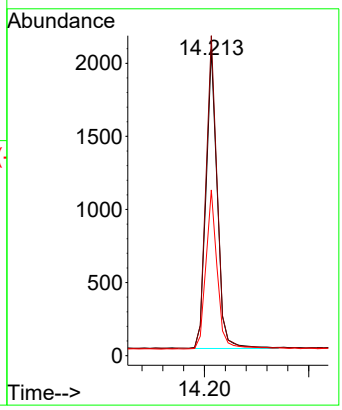


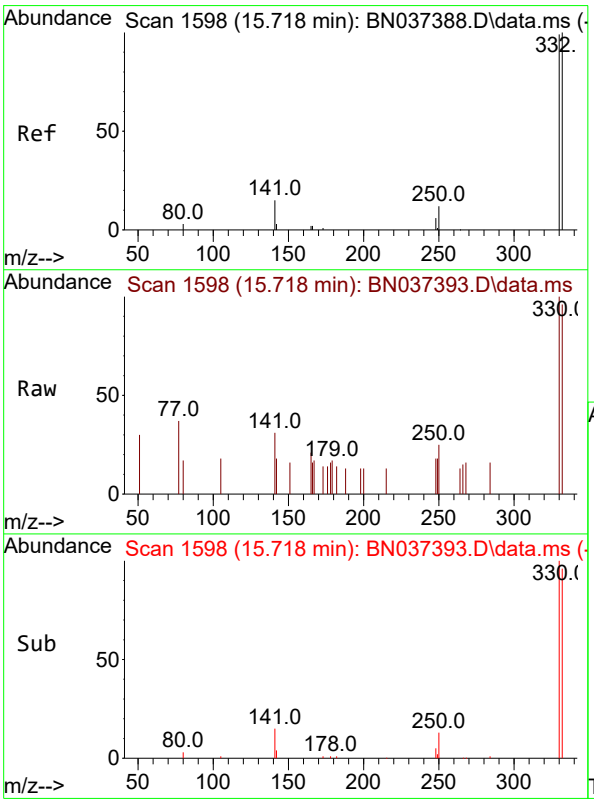
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:164 Resp: 3065

Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.6	123.8
160	54.1	42.2	63.2

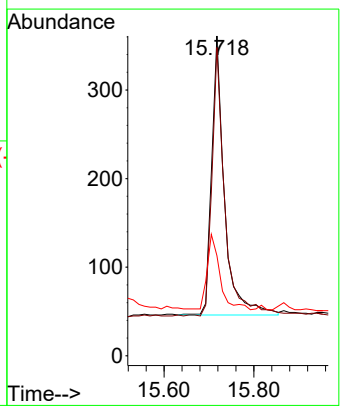


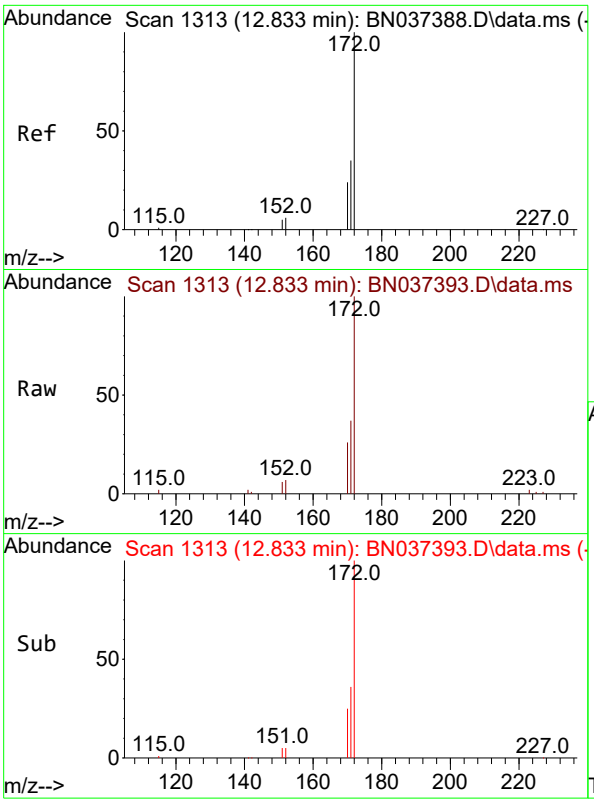


#14
2,4,6-Tribromophenol
Concen: 0.347 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:330 Resp: 623

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.8	116.8
141	26.8	24.0	36.0



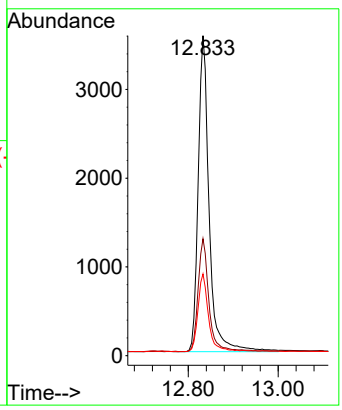


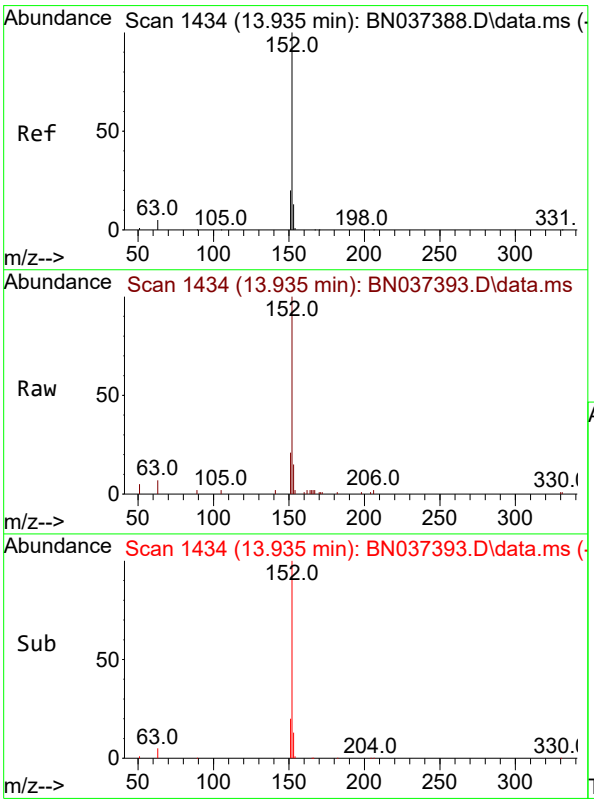
#15
2-Fluorobiphenyl
Concen: 0.454 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:172 Resp: 6004

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.8	43.2
170	25.6	20.3	30.5

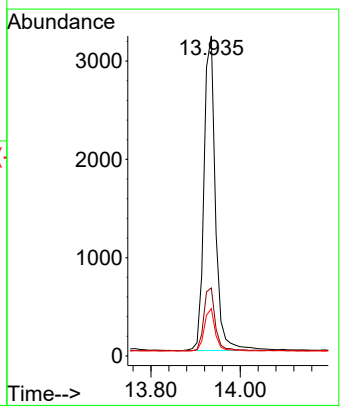


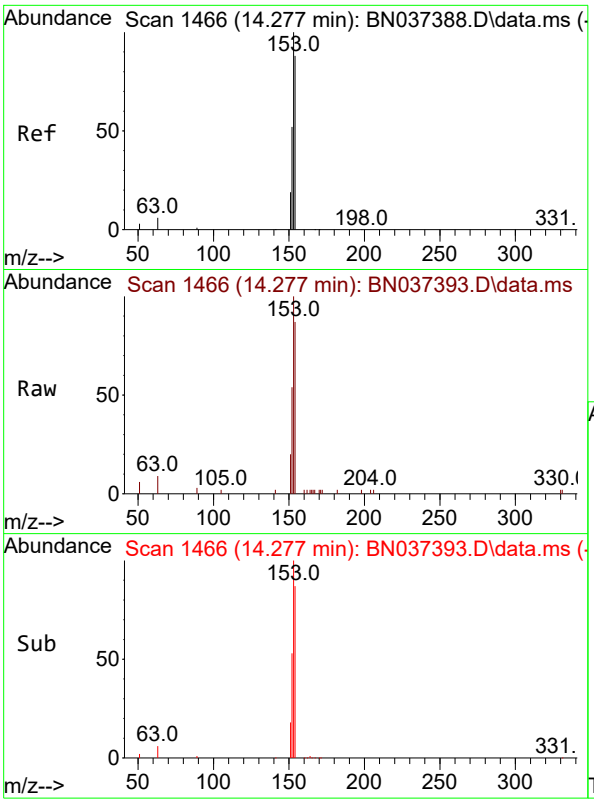


#16
Acenaphthylene
Concen: 0.448 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:152 Resp: 5693

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.6
153	12.9	10.3	15.5



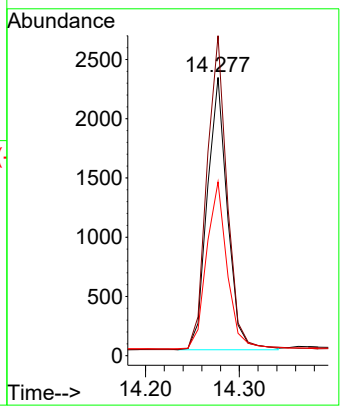


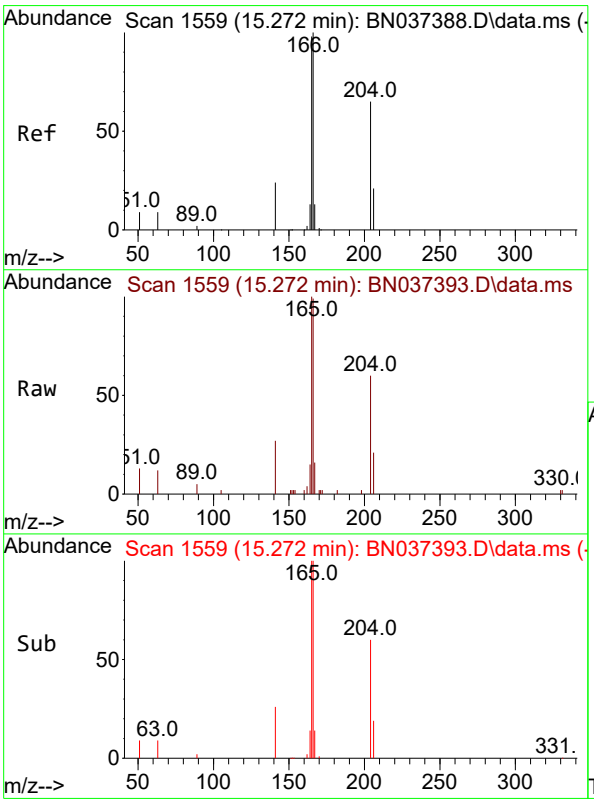
#17
Acenaphthene
Concen: 0.414 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:154 Resp: 3435

Ion	Ratio	Lower	Upper
154	100		
153	116.4	94.6	141.8
152	63.6	50.2	75.2

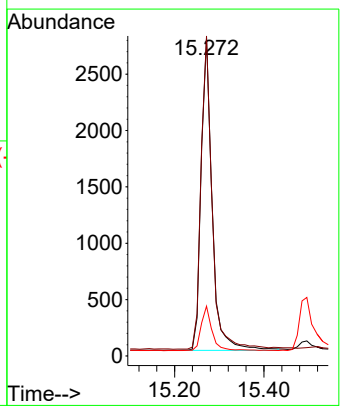


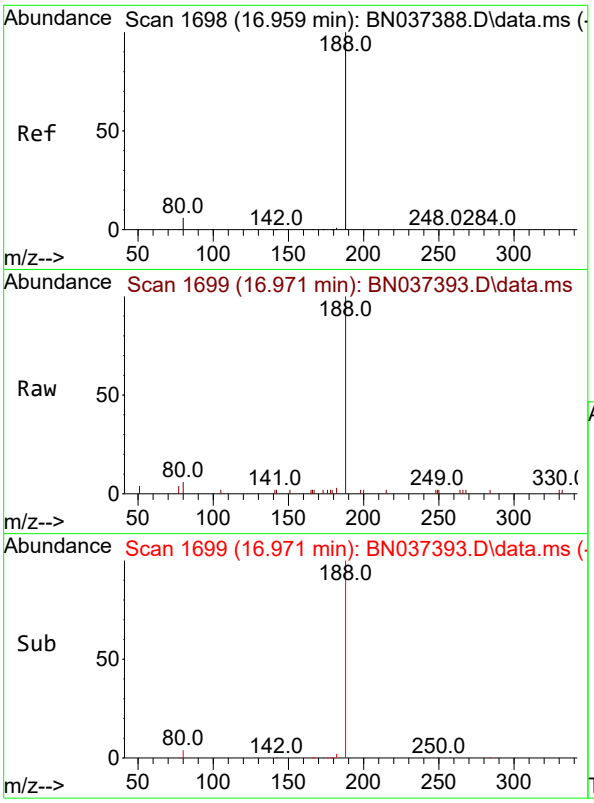


#18
Fluorene
Concen: 0.407 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:166 Resp: 4775

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.4	119.2
167	14.0	10.6	15.8



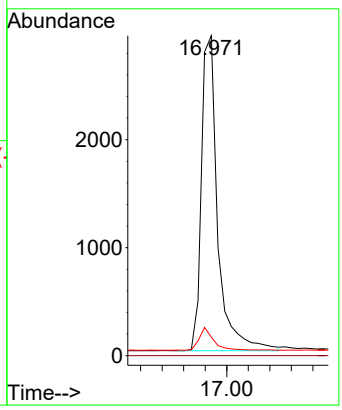


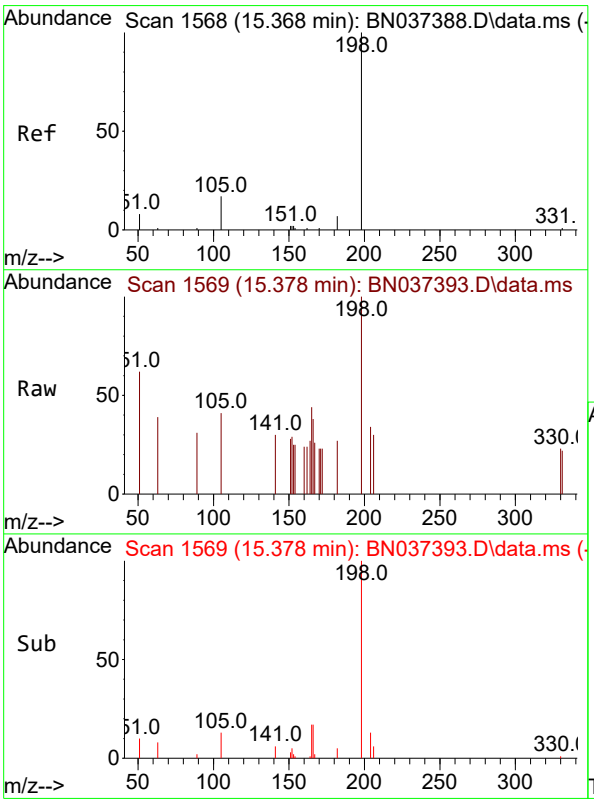
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:188 Resp: 6127

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.8	6.2	9.4#

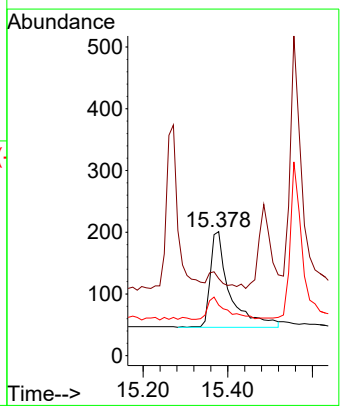


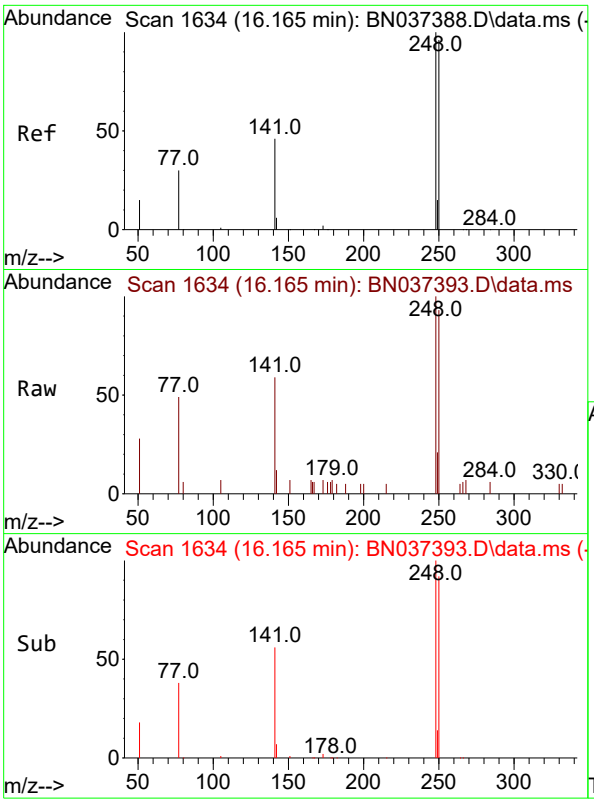


#20
4,6-Dinitro-2-methylphenol
Concen: 0.316 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:198 Resp: 497

Ion	Ratio	Lower	Upper
198	100		
51	62.2	38.8	58.2#
105	40.8	29.8	44.6



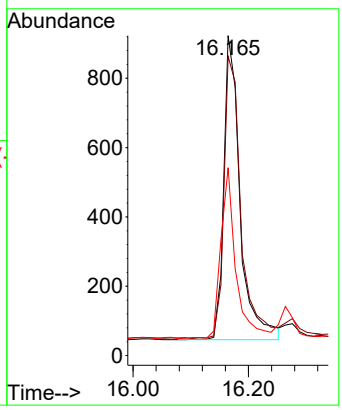


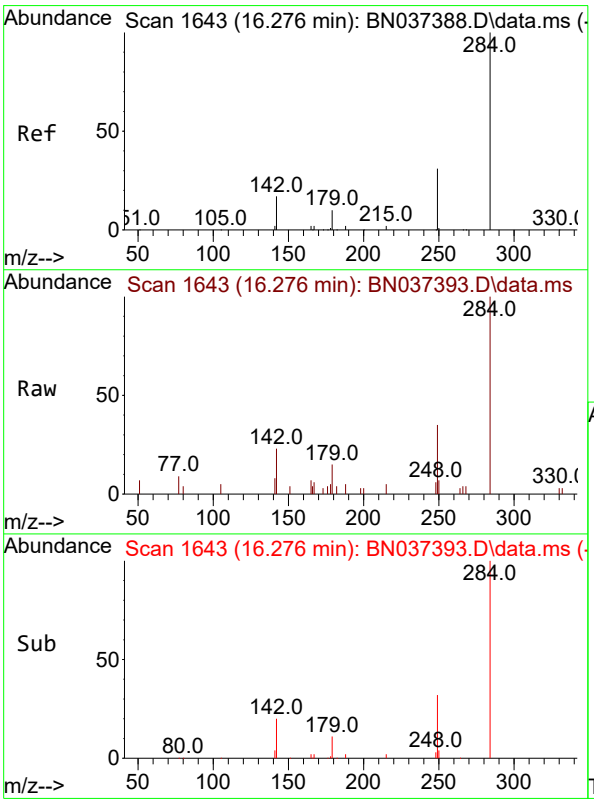
#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 16.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:248 Resp: 1722

Ion	Ratio	Lower	Upper
248	100		
250	93.5	77.0	115.4
141	58.7	38.7	58.1#

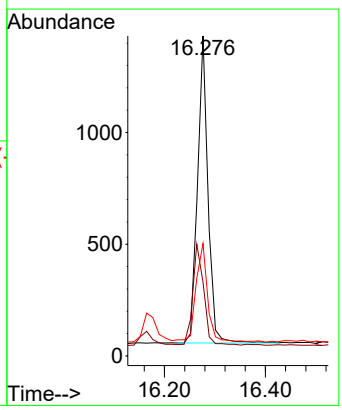


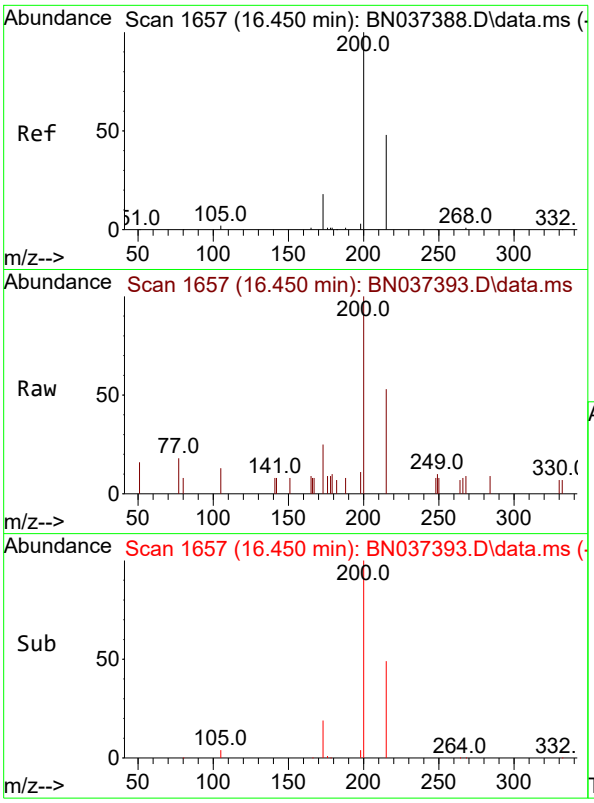


#22
Hexachlorobenzene
Concen: 0.427 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:284 Resp: 1984

Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.2	40.8
249	36.5	26.7	40.1



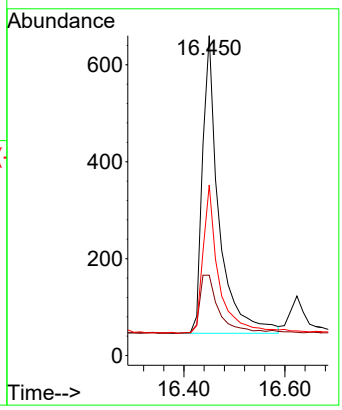


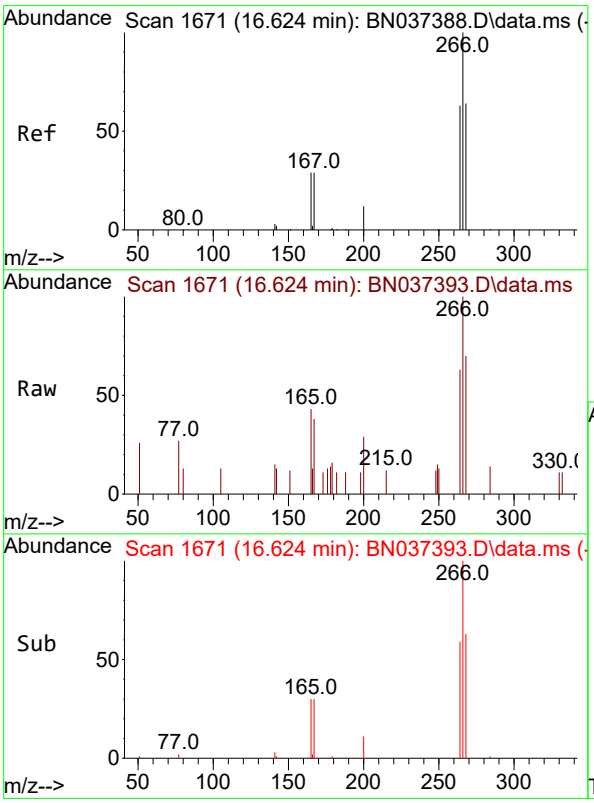
#23
Atrazine
Concen: 0.404 ng
RT: 16.450 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:200 Resp: 1384

Ion	Ratio	Lower	Upper
200	100		
173	25.2	19.0	28.6
215	53.3	41.3	61.9

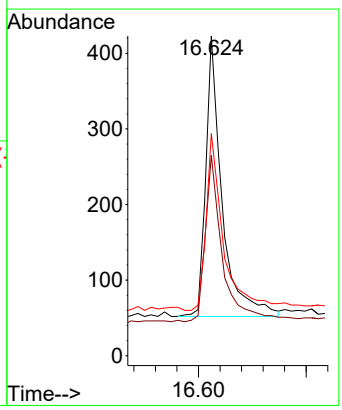


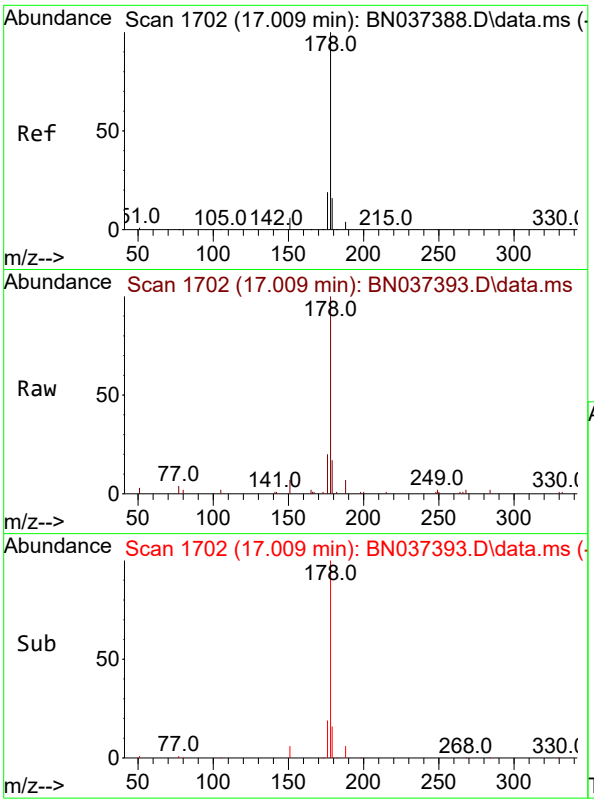


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:266 Resp: 775

Ion	Ratio	Lower	Upper
266	100		
264	64.0	49.2	73.8
268	68.8	54.2	81.4



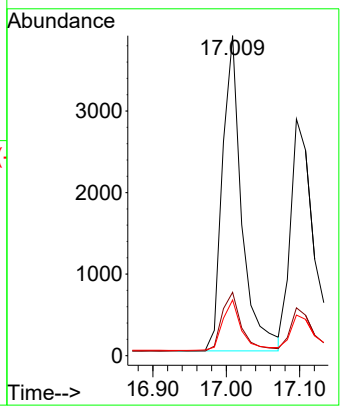


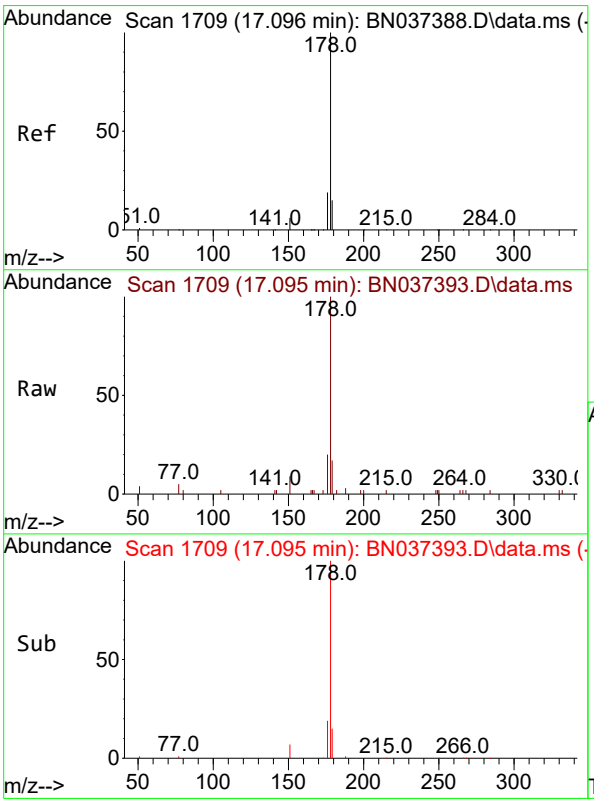
#25
Phenanthrene
Concen: 0.410 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:178 Resp: 7070

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.6	23.4
179	15.4	12.8	19.2

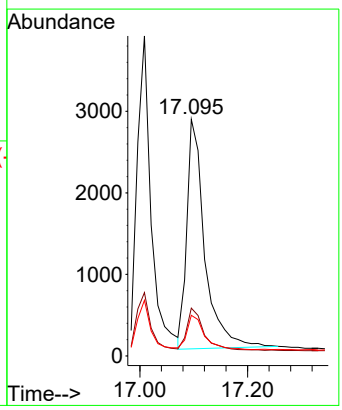


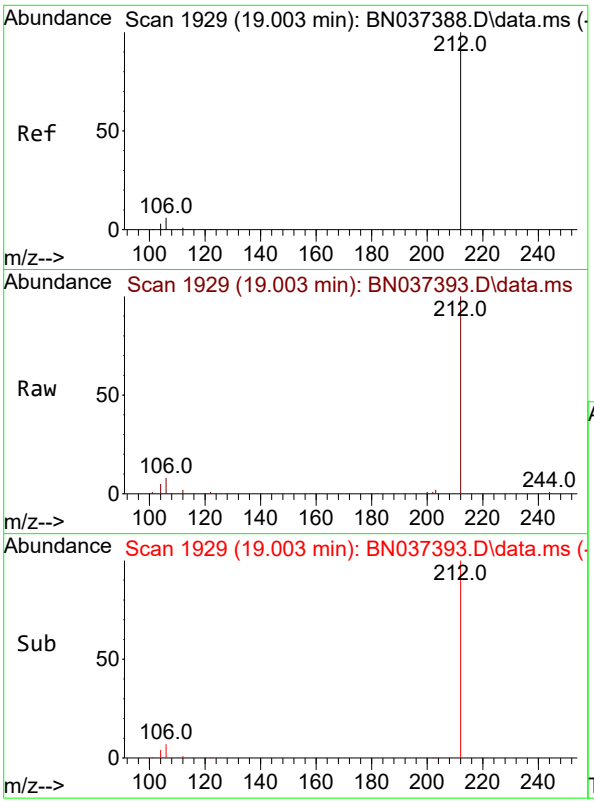


#26
Anthracene
Concen: 0.409 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:178 Resp: 6496

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.9	22.3
179	14.8	12.4	18.6



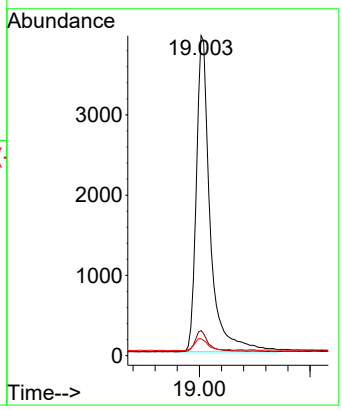


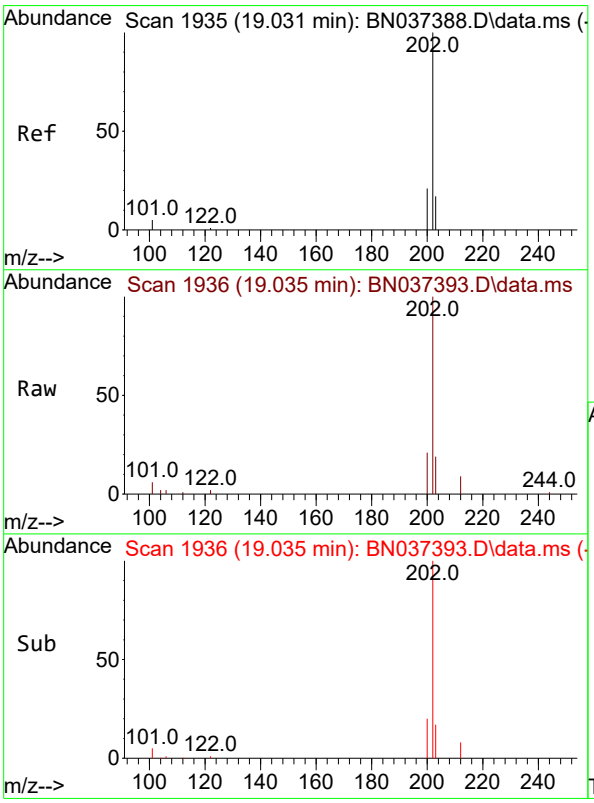
#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:212 Resp: 6867

Ion	Ratio	Lower	Upper
212	100		
106	6.5	4.5	6.7
104	3.9	2.7	4.1

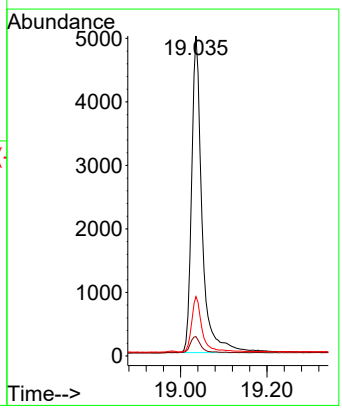


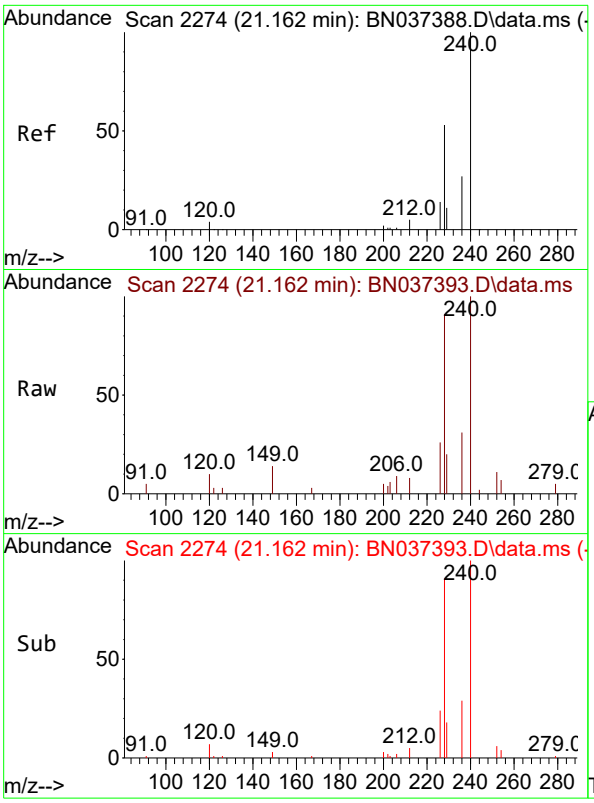


#28
Fluoranthene
Concen: 0.382 ng
RT: 19.035 min Scan# 1936
Delta R.T. 0.005 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:202 Resp: 8423

Ion	Ratio	Lower	Upper
202	100		
101	5.1	3.8	5.6
203	17.3	13.5	20.3



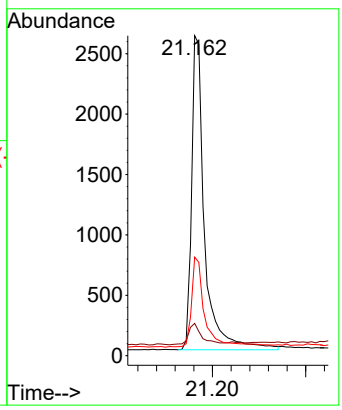


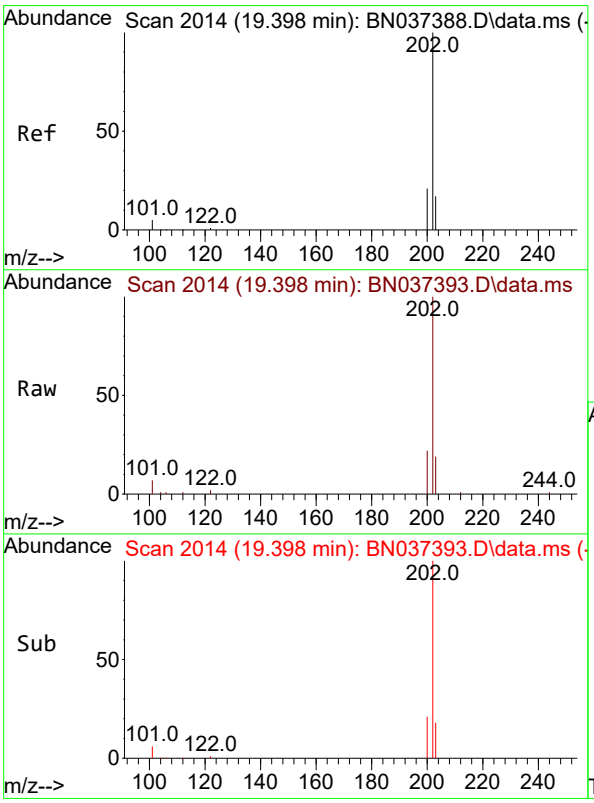
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:240 Resp: 5019

Ion	Ratio	Lower	Upper
240	100		
120	10.1	5.3	7.9#
236	30.8	22.7	34.1

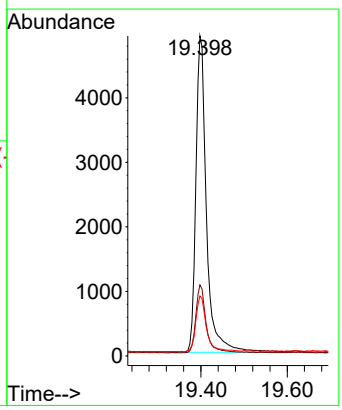


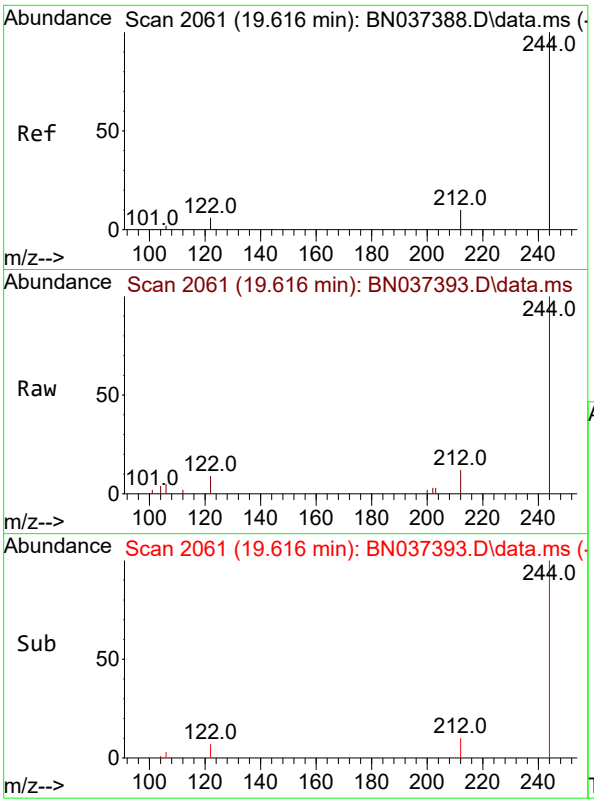


#30
Pyrene
Concen: 0.440 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:202 Resp: 8354

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.5	24.7
203	17.8	14.2	21.2



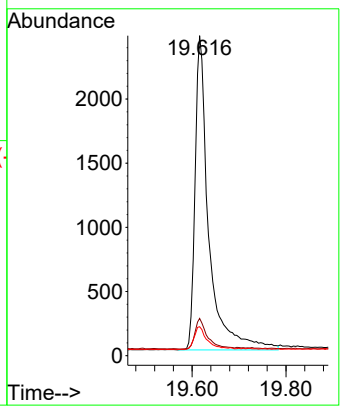


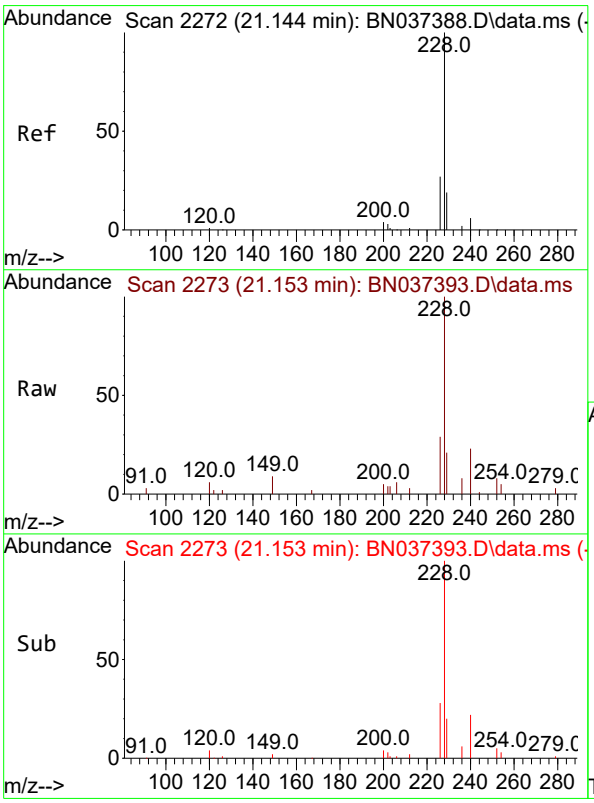
#31
Terphenyl-d14
Concen: 0.464 ng
RT: 19.616 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:244 Resp: 4960

Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.1	13.7
122	9.0	6.3	9.5

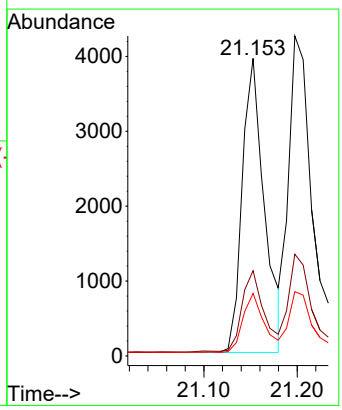


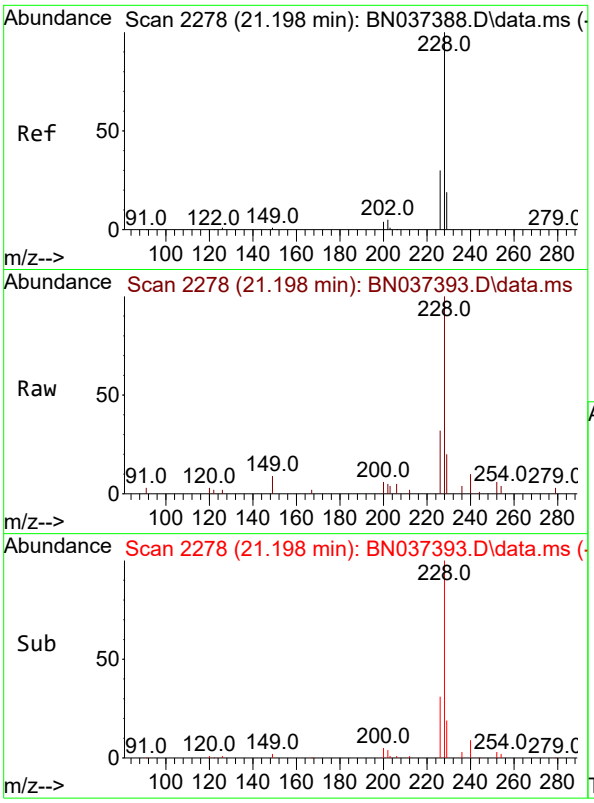


#32
Benzo(a)anthracene
Concen: 0.412 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:228 Resp: 6494

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	34.0
229	21.0	16.2	24.2



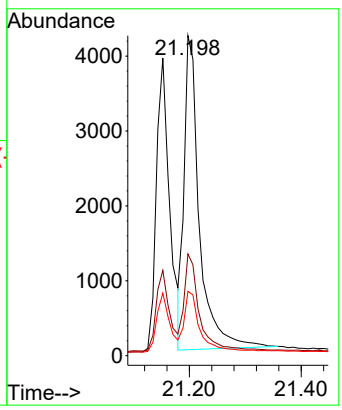


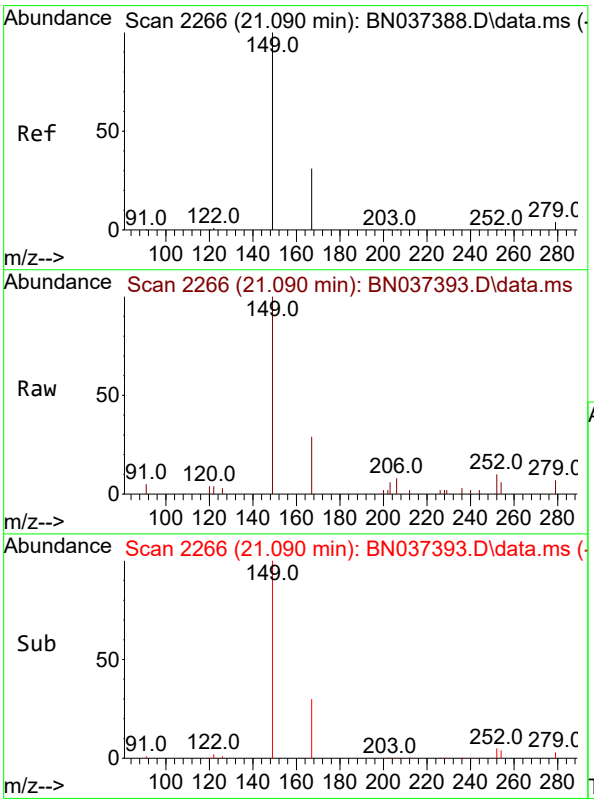
#33
Chrysene
Concen: 0.407 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:228 Resp: 7943

Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.5	36.7
229	20.1	16.1	24.1

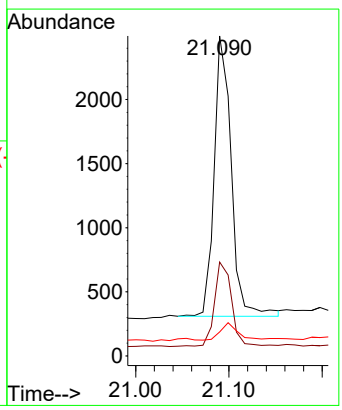


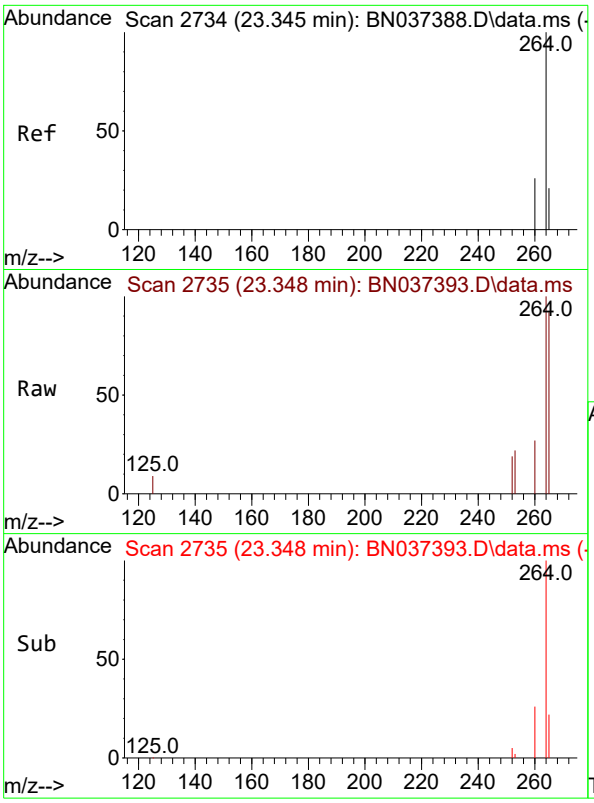


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.444 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:149 Resp: 2775

Ion	Ratio	Lower	Upper
149	100		
167	30.4	24.8	37.2
279	6.2	5.0	7.6



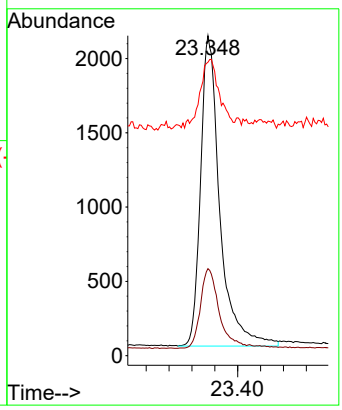


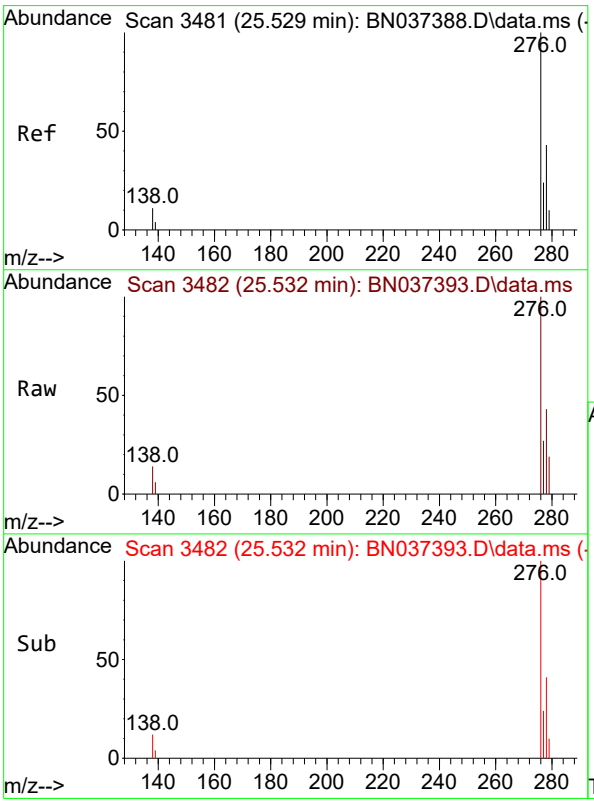
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:264 Resp: 4884

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.0
265	91.7	56.2	84.4#

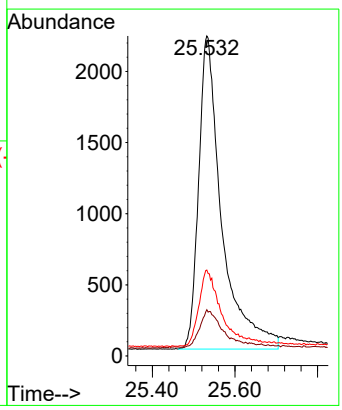


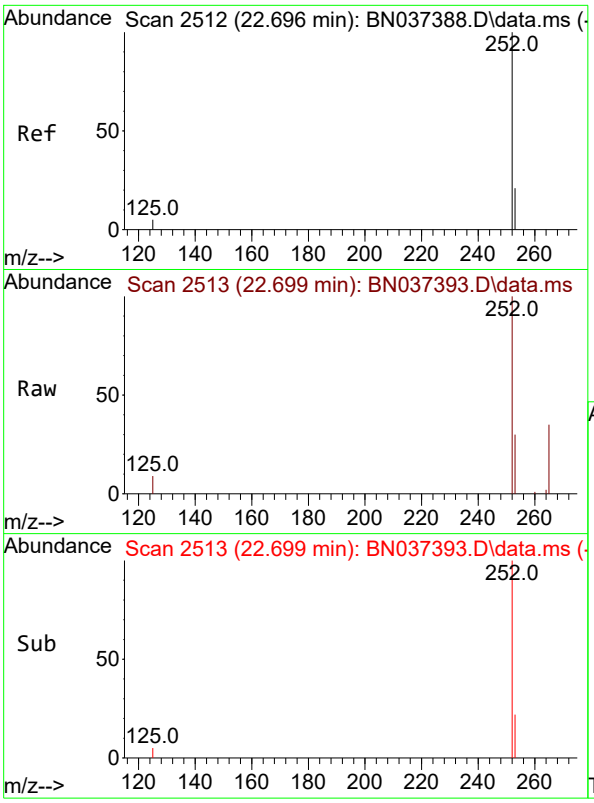


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.415 ng
RT: 25.532 min Scan# 3482
Delta R.T. 0.003 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:276 Resp: 8543

Ion	Ratio	Lower	Upper
276	100		
138	11.6	8.5	12.7
277	22.6	19.7	29.5



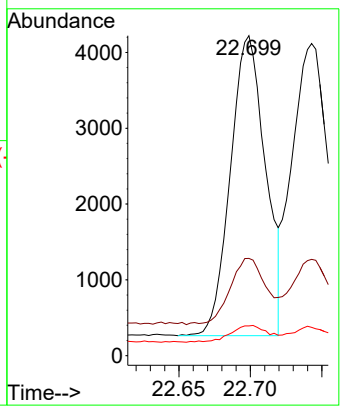


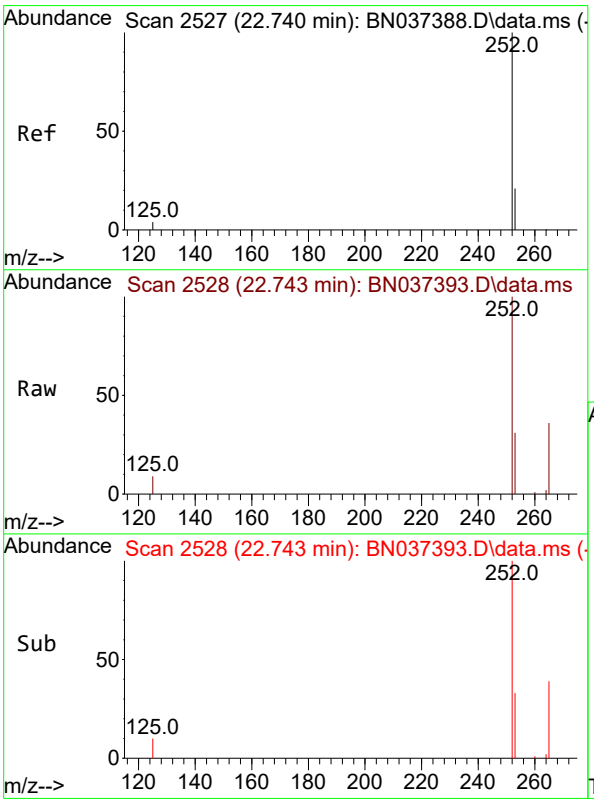
#37
Benzo(b)fluoranthene
Concen: 0.393 ng
RT: 22.699 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:252 Resp: 6764

Ion	Ratio	Lower	Upper
252	100		
253	30.4	22.8	34.2
125	9.3	6.2	9.4

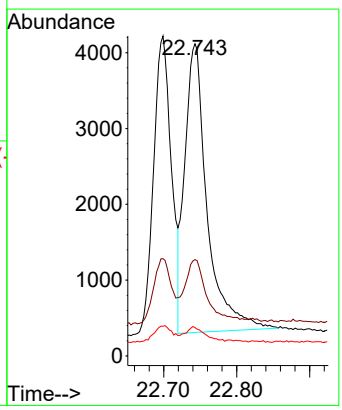


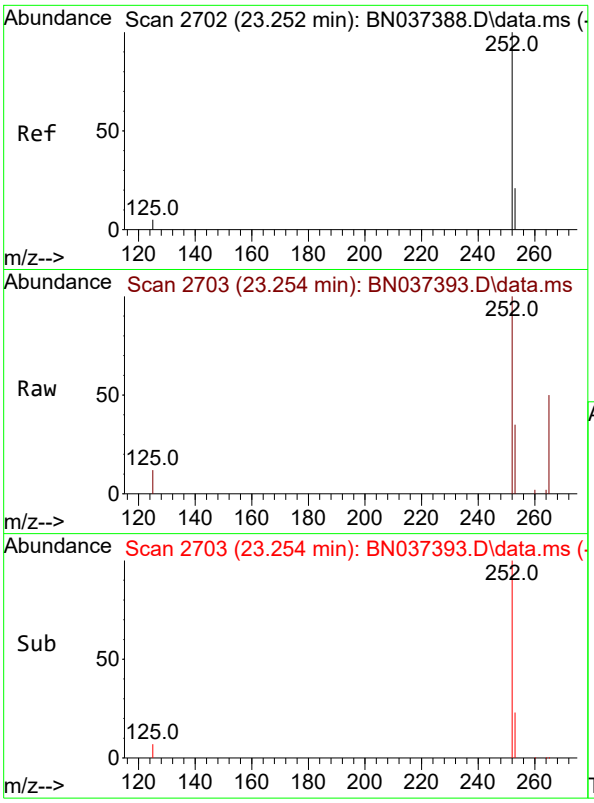


#38
Benzo(k)fluoranthene
Concen: 0.441 ng
RT: 22.743 min Scan# 2528
Delta R.T. 0.003 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:252 Resp: 8109

Ion	Ratio	Lower	Upper
252	100		
253	30.8	23.2	34.8
125	9.1	6.0	9.0#



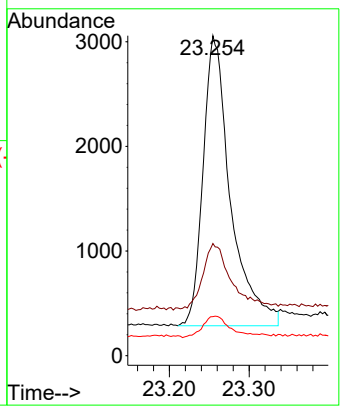


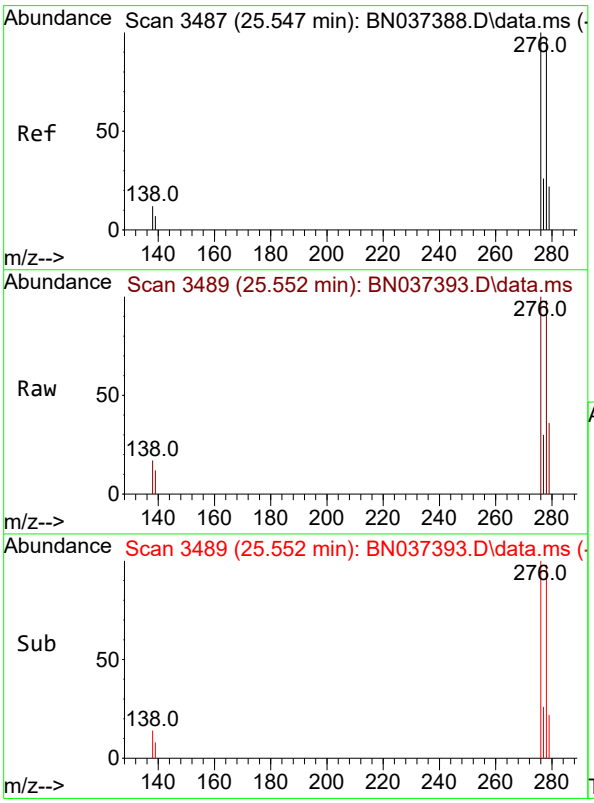
#39
Benzo(a)pyrene
Concen: 0.432 ng
RT: 23.254 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:252 Resp: 6621

Ion	Ratio	Lower	Upper
252	100		
253	35.1	25.6	38.4
125	12.2	7.5	11.3#

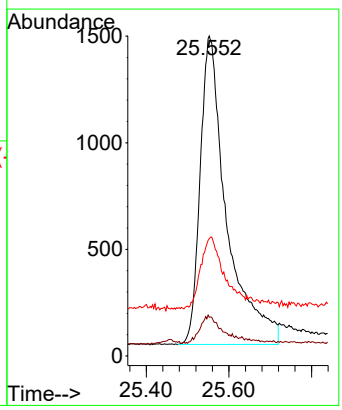


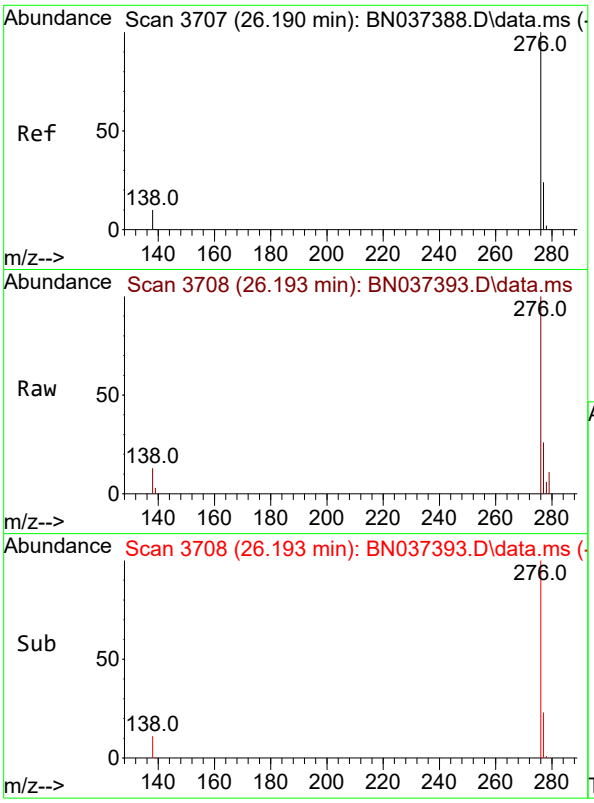


#40
Dibenzo(a,h)anthracene
Concen: 0.407 ng
RT: 25.552 min Scan# 3489
Delta R.T. 0.006 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:278 Resp: 6443

Ion	Ratio	Lower	Upper
278	100		
139	12.1	8.5	12.7
279	36.6	27.5	41.3



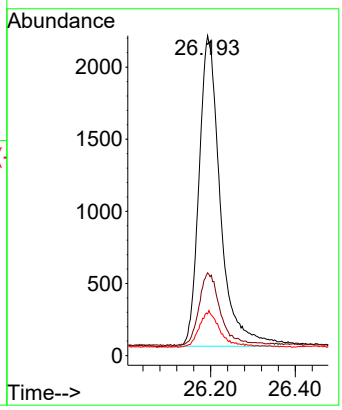


#41
Benzo(g,h,i)perylene
Concen: 0.397 ng
RT: 26.193 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Tgt Ion:276 Resp: 7497

Ion	Ratio	Lower	Upper
276	100		
277	25.9	21.0	31.4
138	13.0	9.6	14.4



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	103	0.00
2		1,4-Dioxane	0.379	0.468	-23.5	130	0.00
3		n-Nitrosodimethylamine	0.375	0.390	-4.0	107	0.00
4	S	2-Fluorophenol	0.771	0.725	6.0	92	0.00
5	S	Phenol-d6	0.799	0.746	6.6	94	0.00
6		bis(2-Chloroethyl)ether	0.711	0.818	-15.0	117	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8	S	Nitrobenzene-d5	0.321	0.340	-5.9	116	0.00
9		Naphthalene	1.030	1.070	-3.9	114	0.00
10		Hexachlorobutadiene	0.409	0.421	-2.9	108	0.00
11	SURR	2-Methylnaphthalene-d10	0.619	0.652	-5.3	120	0.00
12		2-Methylnaphthalene	0.709	0.651	8.2	101	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
14	S	2,4,6-Tribromophenol	0.235	0.203	13.6	85	0.00
15	S	2-Fluorobiphenyl	1.727	1.959	-13.4	114	0.00
16		Acenaphthylene	1.659	1.857	-11.9	119	0.00
17		Acenaphthene	1.083	1.121	-3.5	108	0.00
18		Fluorene	1.530	1.558	-1.8	106	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.01
20		4,6-Dinitro-2-methylphenol	0.103	0.081	21.4	93	0.01
21		4-Bromophenyl-phenylether	0.282	0.281	0.4	102	0.00
22		Hexachlorobenzene	0.303	0.324	-6.9	104	0.00
23		Atrazine	0.224	0.226	-0.9	104	0.00
24		Pentachlorophenol	0.164	0.126	23.2	80	0.00
25		Phenanthrene	1.127	1.154	-2.4	104	0.00
26		Anthracene	1.036	1.060	-2.3	107	0.00
27	SURR	Fluoranthene-d10	1.146	1.121	2.2	103	0.00
28		Fluoranthene	1.439	1.375	4.4	98	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	89	0.00
30		Pyrene	1.514	1.664	-9.9	97	0.00
31	S	Terphenyl-d14	0.853	0.988	-15.8	102	0.00
32		Benzo(a)anthracene	1.257	1.294	-2.9	99	0.00
33		Chrysene	1.556	1.583	-1.7	89	0.00
34		Bis(2-ethylhexyl)phthalate	0.498	0.553	-11.0	98	0.00
35	I	Perylene-d12	1.000	1.000	0.0	82	0.00
36		Indeno(1,2,3-cd)pyrene	1.686	1.749	-3.7	91	0.00
37		Benzo(b)fluoranthene	1.410	1.385	1.8	86	0.00
38		Benzo(k)fluoranthene	1.507	1.660	-10.2	93	0.00
39	C	Benzo(a)pyrene	1.254	1.356	-8.1	94	0.00
40		Dibenzo(a,h)anthracene	1.296	1.319	-1.8	89	0.00
41		Benzo(g,h,i)perylene	1.548	1.535	0.8	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	103	0.00
2		1,4-Dioxane	0.400	0.493	-23.2	130	0.00
3		n-Nitrosodimethylamine	0.400	0.417	-4.2	107	0.00
4	S	2-Fluorophenol	0.400	0.376	6.0	92	0.00
5	S	Phenol-d6	0.400	0.373	6.8	94	0.00
6		bis(2-Chloroethyl)ether	0.400	0.460	-15.0	117	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8	S	Nitrobenzene-d5	0.400	0.425	-6.2	116	0.00
9		Naphthalene	0.400	0.416	-4.0	114	0.00
10		Hexachlorobutadiene	0.400	0.412	-3.0	108	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.421	-5.2	120	0.00
12		2-Methylnaphthalene	0.400	0.367	8.3	101	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	101	0.00
14	S	2,4,6-Tribromophenol	0.400	0.347	13.3	85	0.00
15	S	2-Fluorobiphenyl	0.400	0.454	-13.5	114	0.00
16		Acenaphthylene	0.400	0.448	-12.0	119	0.00
17		Acenaphthene	0.400	0.414	-3.5	108	0.00
18		Fluorene	0.400	0.407	-1.7	106	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	98	0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.316	21.0	93	0.01
21		4-Bromophenyl-phenylether	0.400	0.398	0.5	102	0.00
22		Hexachlorobenzene	0.400	0.427	-6.7	104	0.00
23		Atrazine	0.400	0.404	-1.0	104	0.00
24		Pentachlorophenol	0.400	0.309	22.8	80	0.00
25		Phenanthrene	0.400	0.410	-2.5	104	0.00
26		Anthracene	0.400	0.409	-2.2	107	0.00
27	SURR	Fluoranthene-d10	0.400	0.391	2.3	103	0.00
28		Fluoranthene	0.400	0.382	4.5	98	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	89	0.00
30		Pyrene	0.400	0.440	-10.0	97	0.00
31	S	Terphenyl-d14	0.400	0.464	-16.0	102	0.00
32		Benzo(a)anthracene	0.400	0.412	-3.0	99	0.00
33		Chrysene	0.400	0.407	-1.7	89	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.444	-11.0	98	0.00
35	I	Perylene-d12	0.400	0.400	0.0	82	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.415	-3.7	91	0.00
37		Benzo(b)fluoranthene	0.400	0.393	1.8	86	0.00
38		Benzo(k)fluoranthene	0.400	0.441	-10.2	93	0.00
39	C	Benzo(a)pyrene	0.400	0.432	-8.0	94	0.00
40		Dibenzo(a,h)anthracene	0.400	0.407	-1.7	89	0.00
41		Benzo(g,h,i)perylene	0.400	0.397	0.8	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG No.: Q2375

Instrument ID: BNA_N Calibration Date/Time: 06/21/2025 01:17

Lab File ID: BN037365.D Init. Calib. Date(s): 06/20/2025 06/20/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:51 20:27

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.648	0.670		3.4	50.0
Fluoranthene-d10	1.148	1.189		3.6	50.0
2-Fluorophenol	0.799	0.740		-7.4	50.0
Phenol-d6	0.823	0.753		-8.5	50.0
Nitrobenzene-d5	0.323	0.318		-1.5	50.0
2-Fluorobiphenyl	1.757	1.777		1.1	50.0
2,4,6-Tribromophenol	0.235	0.218		-7.2	50.0
Terphenyl-d14	0.912	0.903		-1.0	50.0
1,4-Dioxane	0.407	0.399		-2.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	1894	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4150	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	2786	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5748	0.400	ng	#	0.00
29) Chrysene-d12	21.162	240	5140	0.400	ng		0.00
35) Perylene-d12	23.351	264	5682	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1402	0.370	ng		0.00
5) Phenol-d6	6.752	99	1426	0.366	ng		0.00
8) Nitrobenzene-d5	8.717	82	1321	0.394	ng		0.00
11) 2-Methylnaphthalene-d10	11.945	152	2780	0.413	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	608	0.372	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	4951	0.405	ng		0.00
27) Fluoranthene-d10	19.008	212	6836	0.414	ng		0.00
31) Terphenyl-d14	19.616	244	4639	0.396	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	755	0.392	ng		95
3) n-Nitrosodimethylamine	3.422	42	701	0.397	ng	#	78
6) bis(2-Chloroethyl)ether	7.004	93	1274	0.368	ng		100
9) Naphthalene	10.394	128	4308	0.393	ng	#	90
10) Hexachlorobutadiene	10.682	225	1876	0.434	ng	#	100
12) 2-Methylnaphthalene	12.021	142	2941	0.385	ng		93
16) Acenaphthylene	13.935	152	4498	0.384	ng		98
17) Acenaphthene	14.277	154	2949	0.383	ng		98
18) Fluorene	15.272	166	4167	0.385	ng		99
20) 4,6-Dinitro-2-methylph...	15.379	198	483	0.350	ng		85
21) 4-Bromophenyl-phenylether	16.177	248	1621	0.396	ng	#	94
22) Hexachlorobenzene	16.276	284	1819	0.408	ng		99
23) Atrazine	16.450	200	1187	0.364	ng	#	87
24) Pentachlorophenol	16.624	266	805	0.363	ng		96
25) Phenanthrene	17.009	178	6282	0.377	ng		99
26) Anthracene	17.108	178	5522	0.360	ng		99
28) Fluoranthene	19.036	202	8102	0.385	ng		98
30) Pyrene	19.403	202	8105	0.388	ng		100
32) Benzo(a)anthracene	21.153	228	6359	0.376	ng		98
33) Chrysene	21.198	228	8015	0.391	ng		98
34) Bis(2-ethylhexyl)phtha...	21.090	149	2672	0.385	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.535	276	9725	0.382	ng	#	92
37) Benzo(b)fluoranthene	22.696	252	7592m	0.363	ng		
38) Benzo(k)fluoranthene	22.740	252	9018	0.398	ng		94
39) Benzo(a)pyrene	23.255	252	7122	0.380	ng	#	90
40) Dibenzo(a,h)anthracene	25.553	278	7424	0.388	ng	#	85
41) Benzo(g,h,i)perylene	26.199	276	8859	0.389	ng		95

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

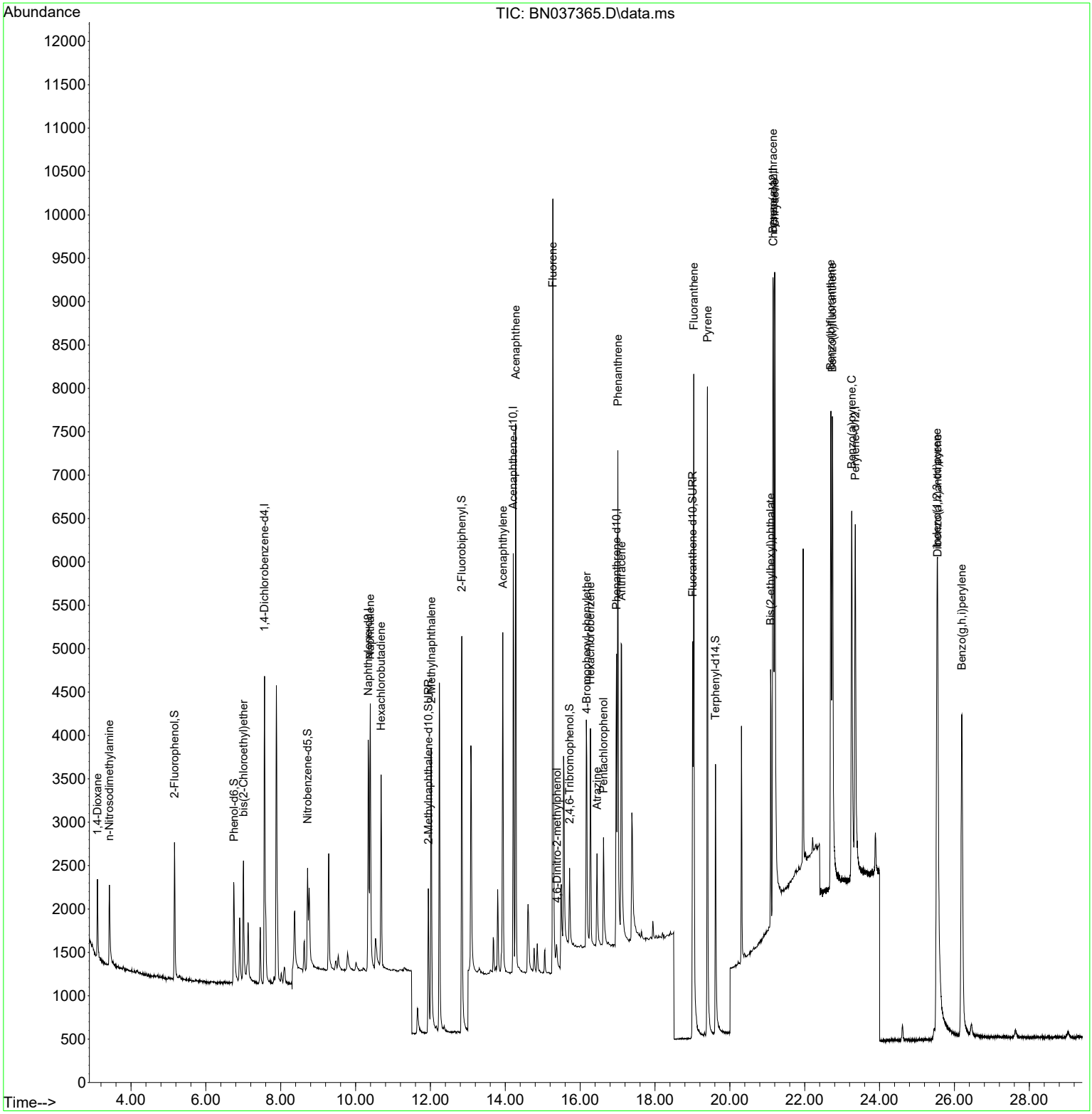
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

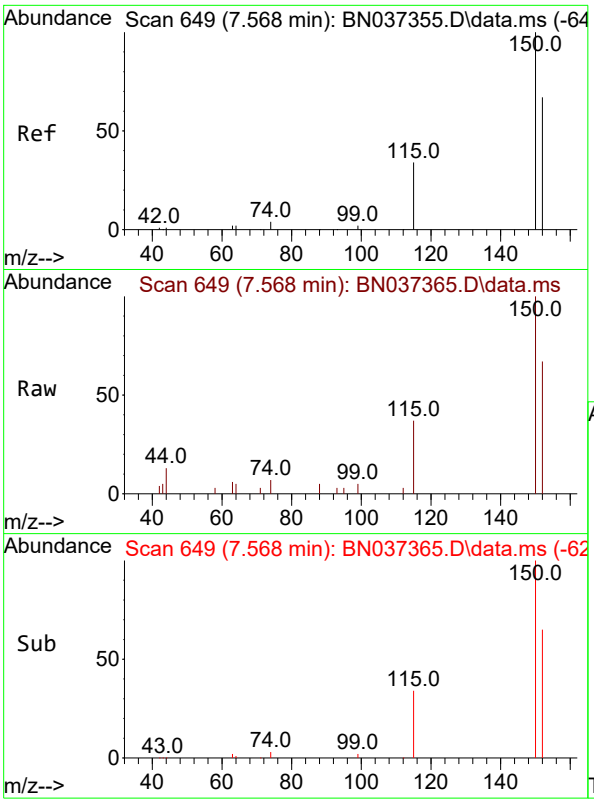
Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

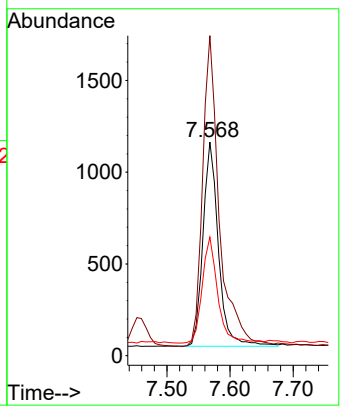




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:152 Resp: 189

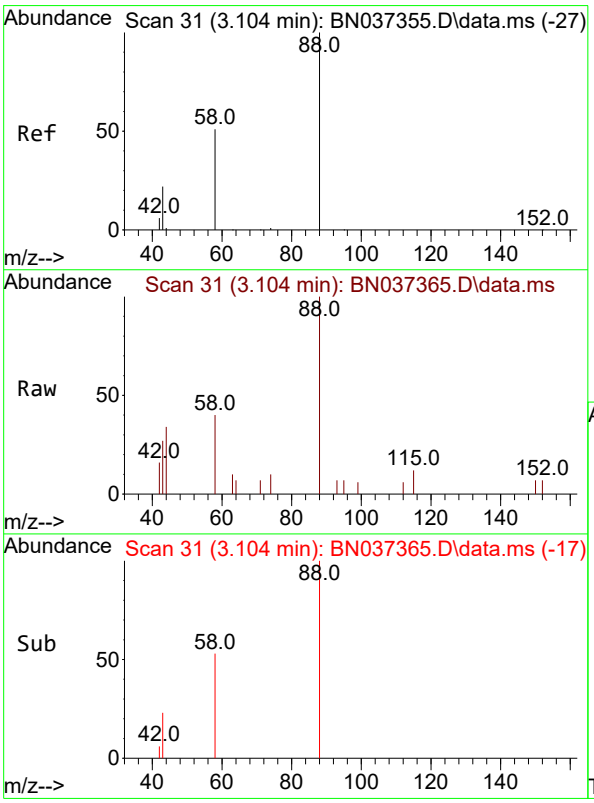
Ion	Ratio	Lower	Upper
152	100		
150	149.8	112.7	169.1
115	55.5	45.9	68.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

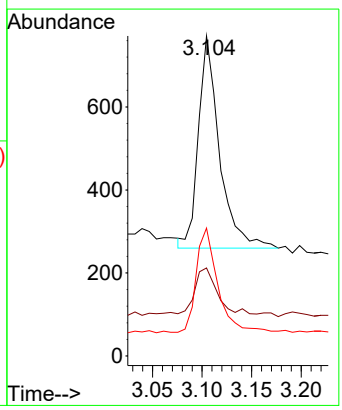
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

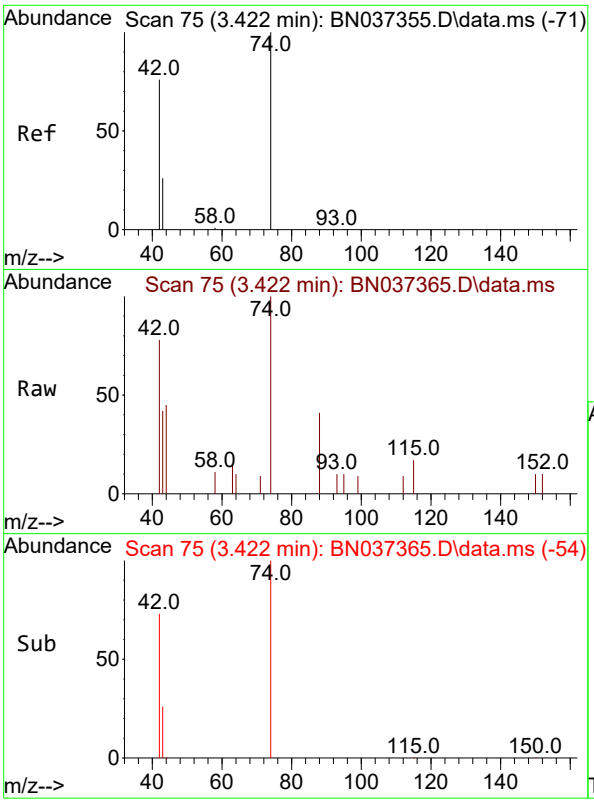


#2
1,4-Dioxane
Concen: 0.392 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 88 Resp: 755

Ion	Ratio	Lower	Upper
88	100		
43	22.8	21.0	31.6
58	49.9	38.0	57.0

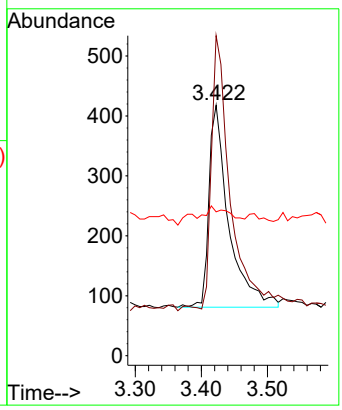




#3
n-Nitrosodimethylamine
Concen: 0.397 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 42 Resp: 70

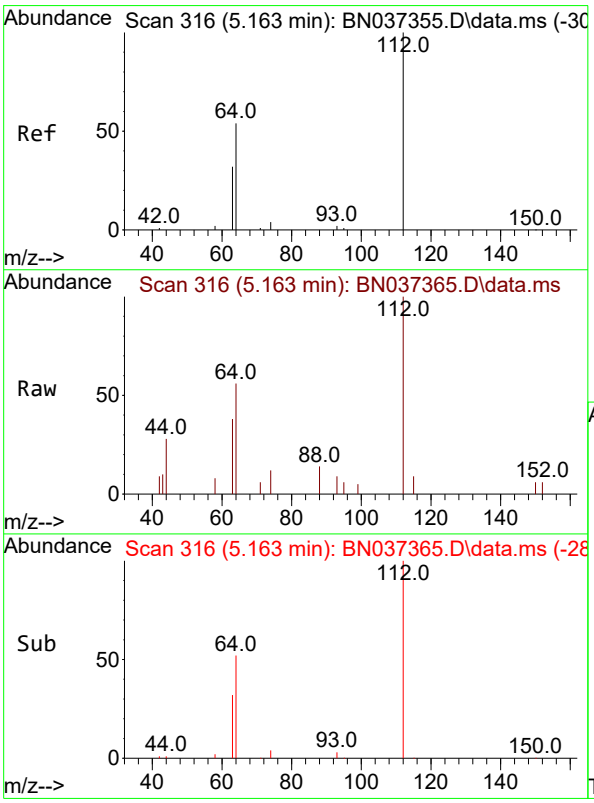
Ion	Ratio	Lower	Upper
42	100		
74	129.2	84.3	126.5#
44	9.3	5.0	7.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

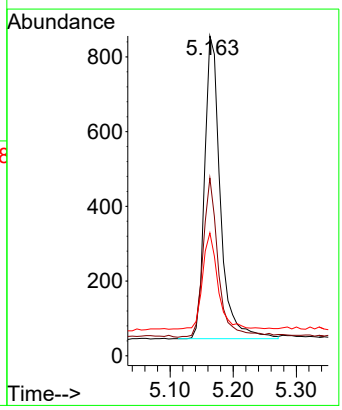
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

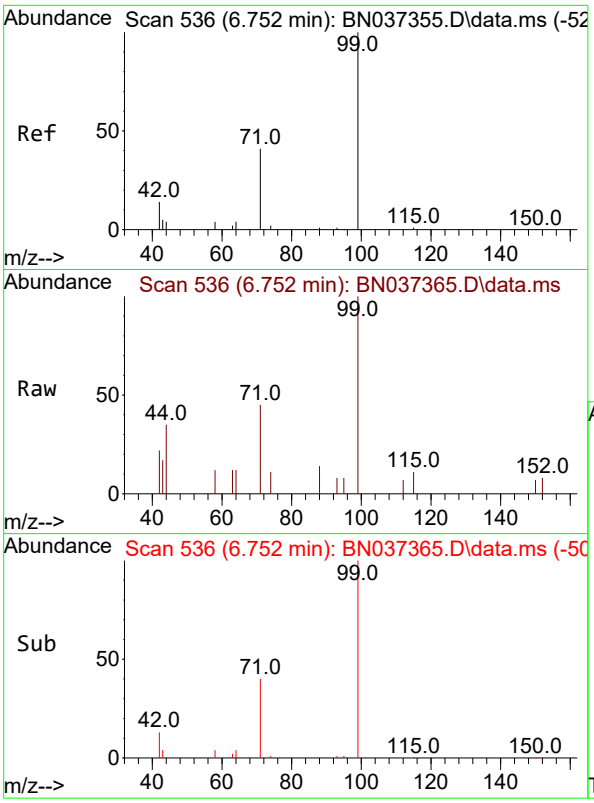


#4
2-Fluorophenol
Concen: 0.370 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:112 Resp: 1402

Ion	Ratio	Lower	Upper
112	100		
64	52.2	38.7	58.1
63	31.0	26.4	39.6

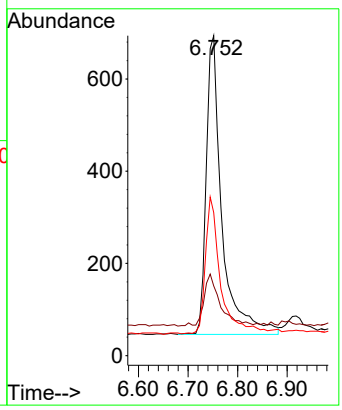




#5
Phenol-d6
Concen: 0.366 ng
RT: 6.752 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 99 Resp: 142

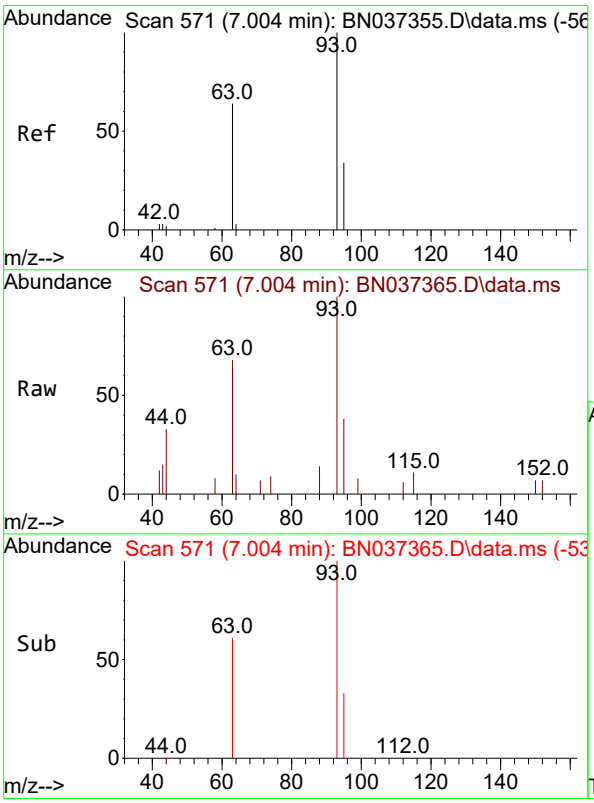
Ion	Ratio	Lower	Upper
99	100		
42	18.2	19.8	29.8
71	44.0	42.6	64.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

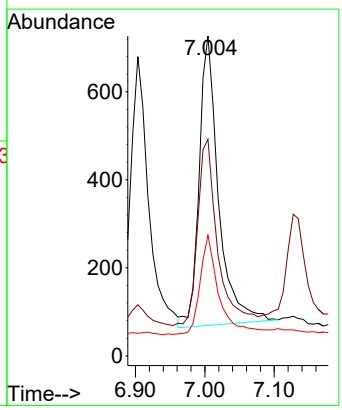
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

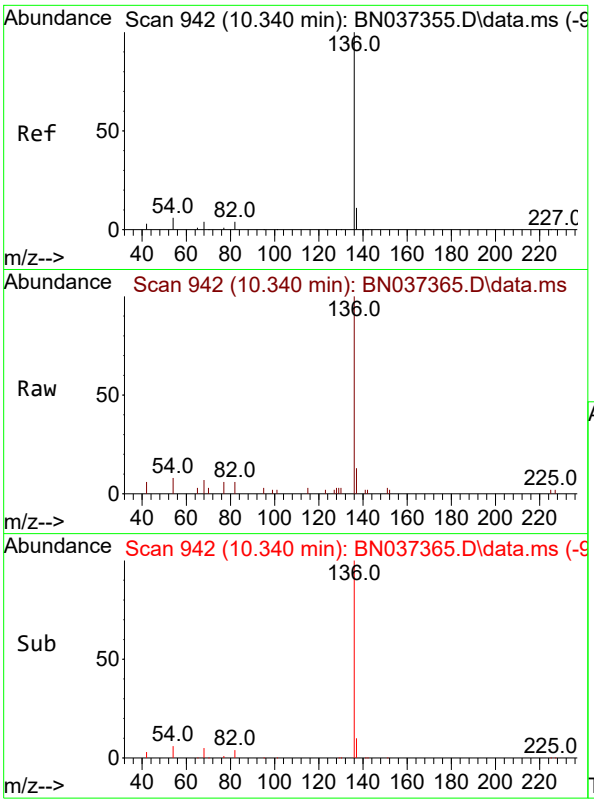


#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 93 Resp: 1274

Ion	Ratio	Lower	Upper
93	100		
63	66.6	53.2	79.8
95	33.8	27.3	40.9

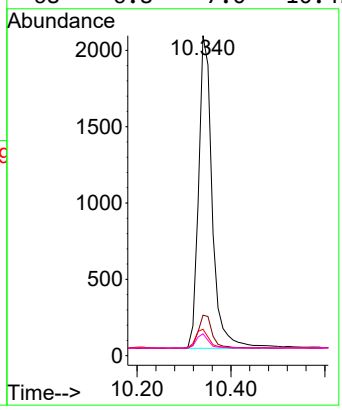




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:136 Resp: 415

Ion	Ratio	Lower	Upper
136	100		
137	12.6	12.2	18.2
54	8.3	8.8	13.2#
68	6.8	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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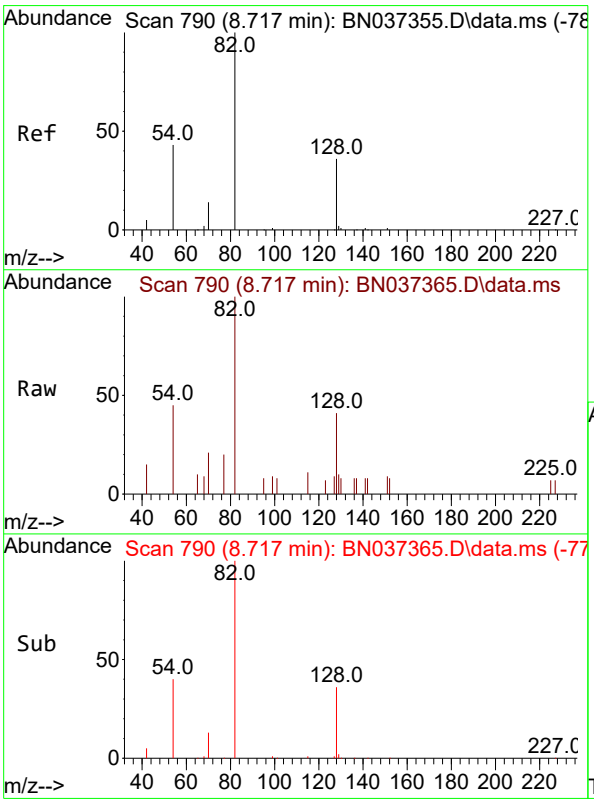
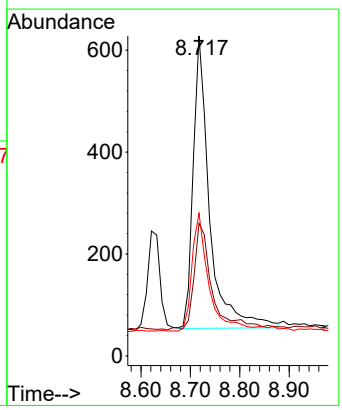
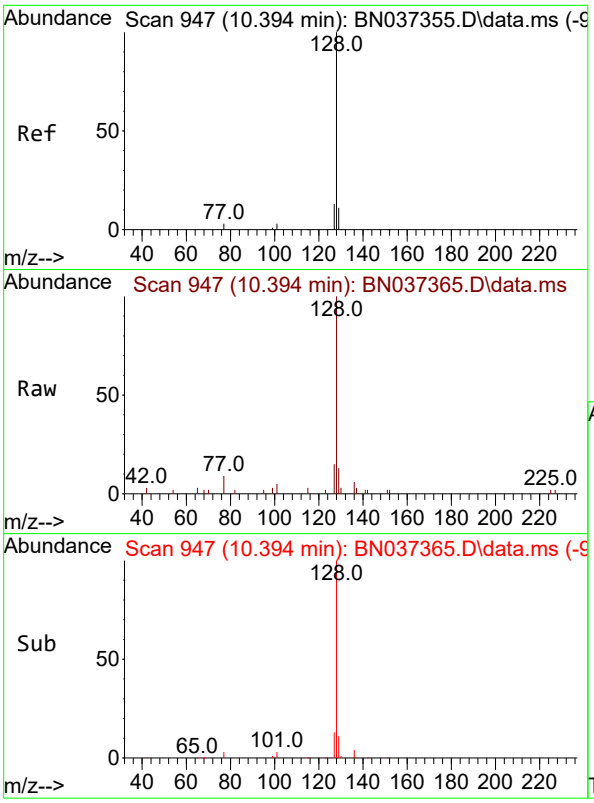


#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 82 Resp: 1321

Ion	Ratio	Lower	Upper
82	100		
128	41.4	42.5	63.7#
54	44.6	43.2	64.8





#9
Naphthalene
Concen: 0.393 ng
RT: 10.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:128 Resp: 430

Ion	Ratio	Lower	Upper
128	100		
129	12.7	14.0	21.0#
127	15.2	15.8	23.8#

Instrument :
BNA_N
ClientSampleId :
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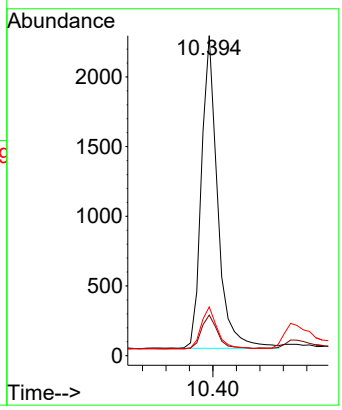
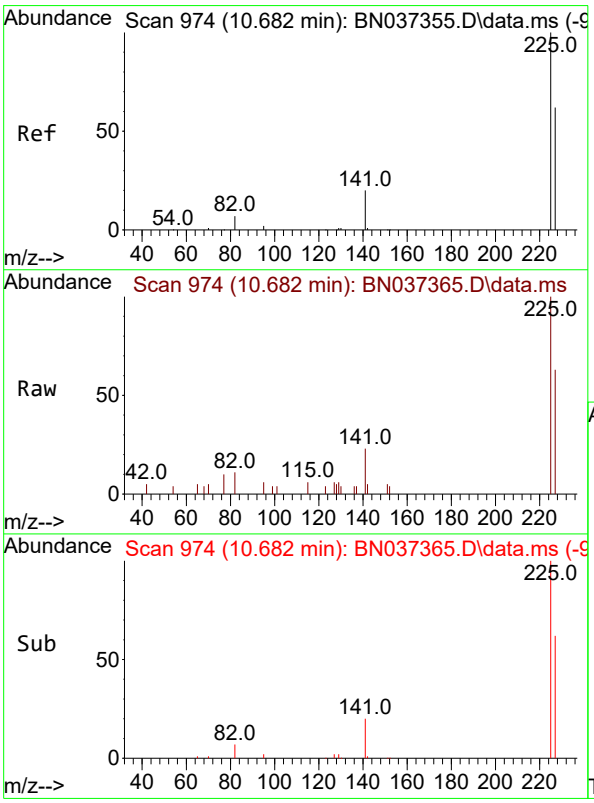
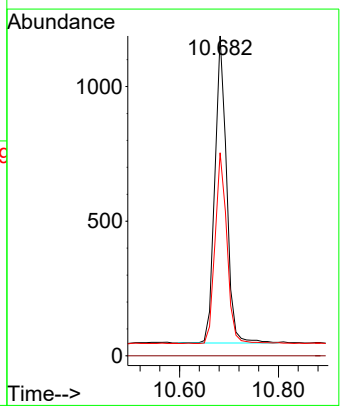


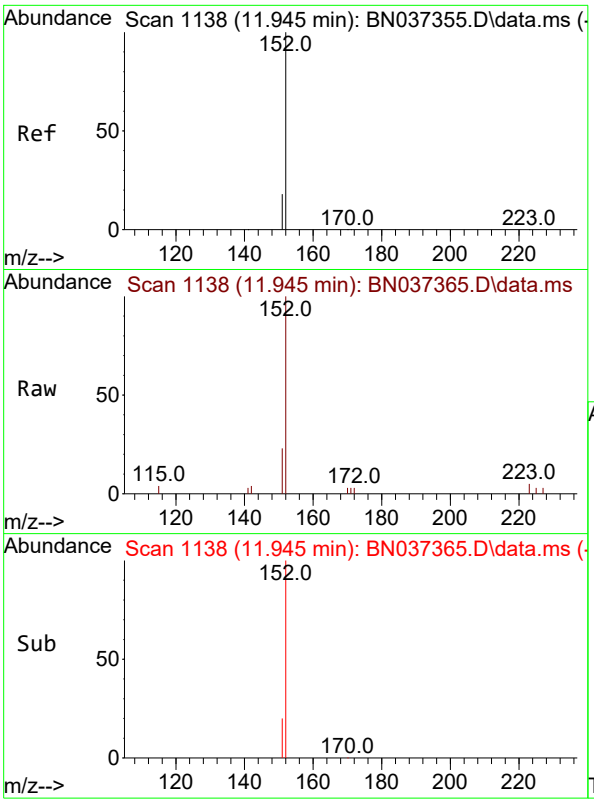


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:225 Resp: 1876

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	50.3	75.5





#11
2-Methylnaphthalene-d10
Concen: 0.413 ng
RT: 11.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:152 Resp: 278

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.4	26.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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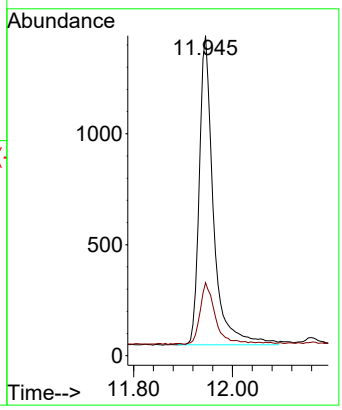
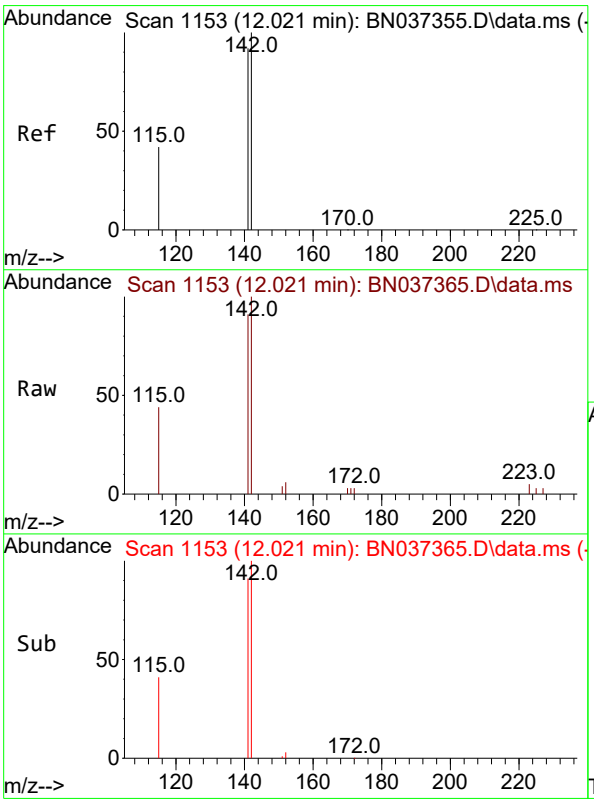
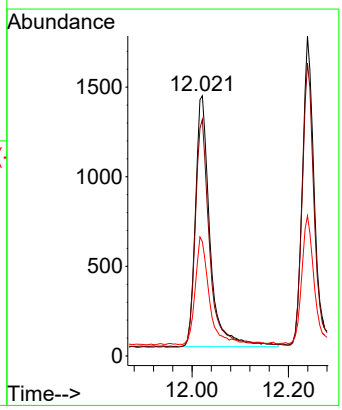


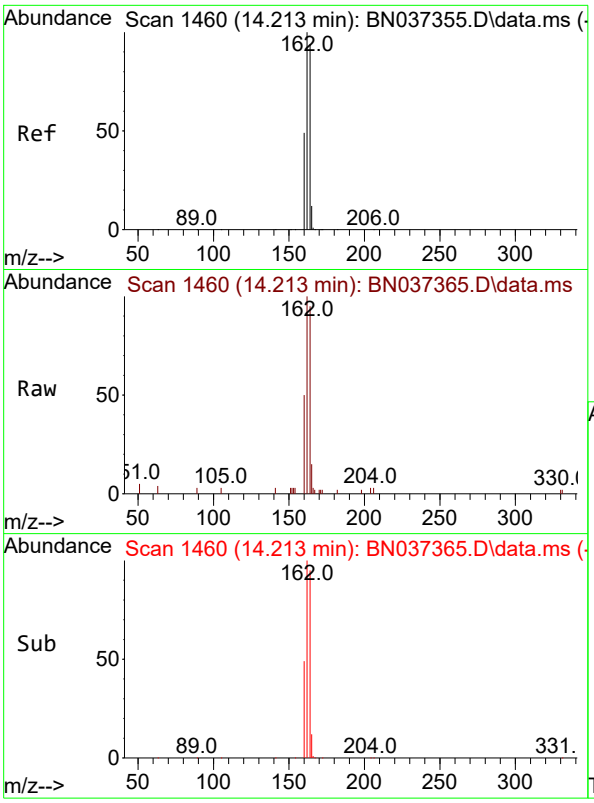


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:142 Resp: 2941

Ion	Ratio	Lower	Upper
142	100		
141	90.9	70.2	105.2
115	43.9	43.0	64.4

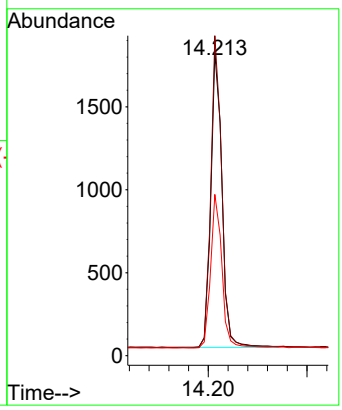




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:164 Resp: 278

Ion	Ratio	Lower	Upper
164	100		
162	105.6	81.5	122.3
160	53.2	43.0	64.4



Instrument :
BNA_N
ClientSampleId :
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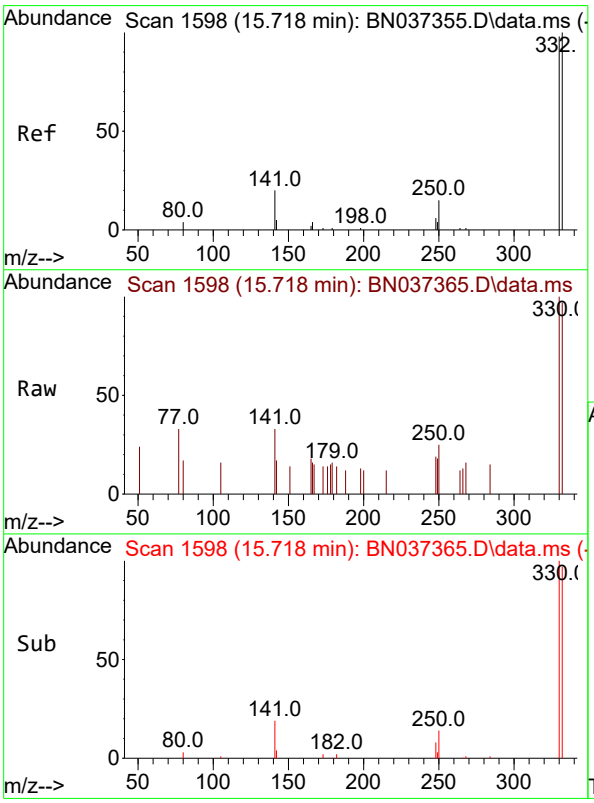
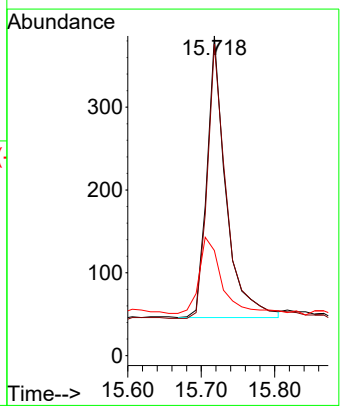
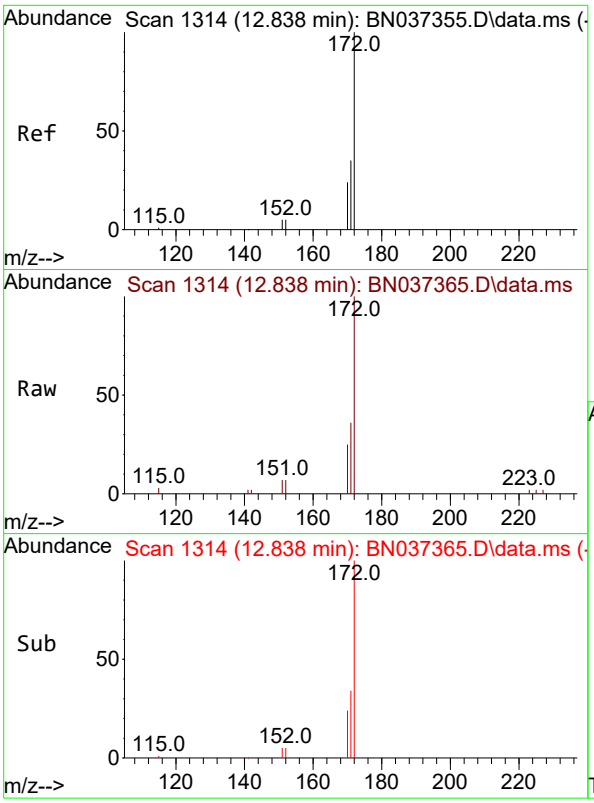


#14
2,4,6-Tribromophenol
Concen: 0.372 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:330 Resp: 608

Ion	Ratio	Lower	Upper
330	100		
332	102.3	78.4	117.6
141	35.9	24.4	36.6





#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.838 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:172 Resp: 495

Ion	Ratio	Lower	Upper
172	100		
171	35.8	30.8	46.2
170	25.4	21.9	32.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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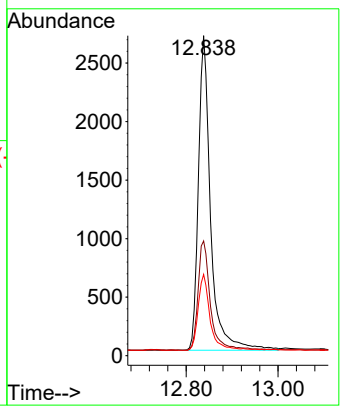
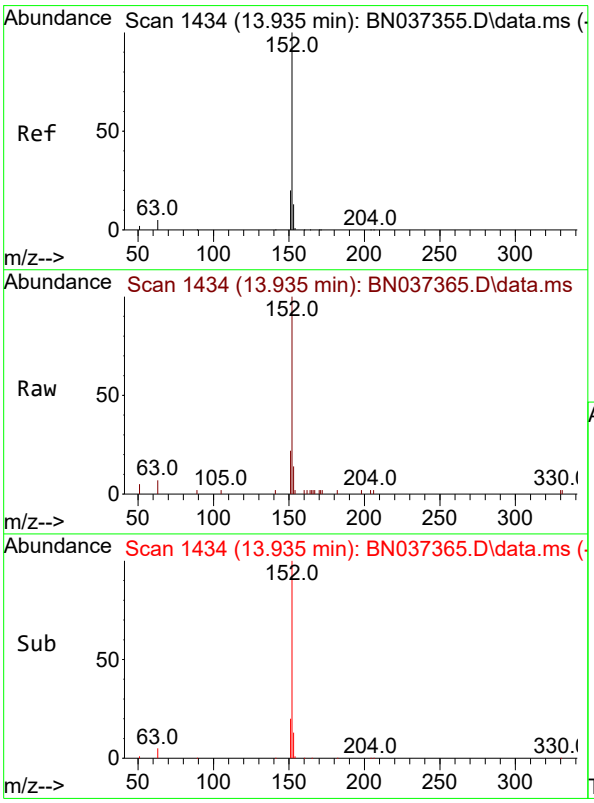
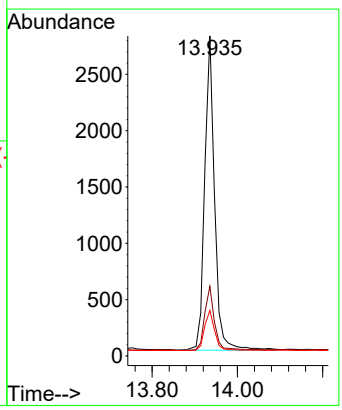


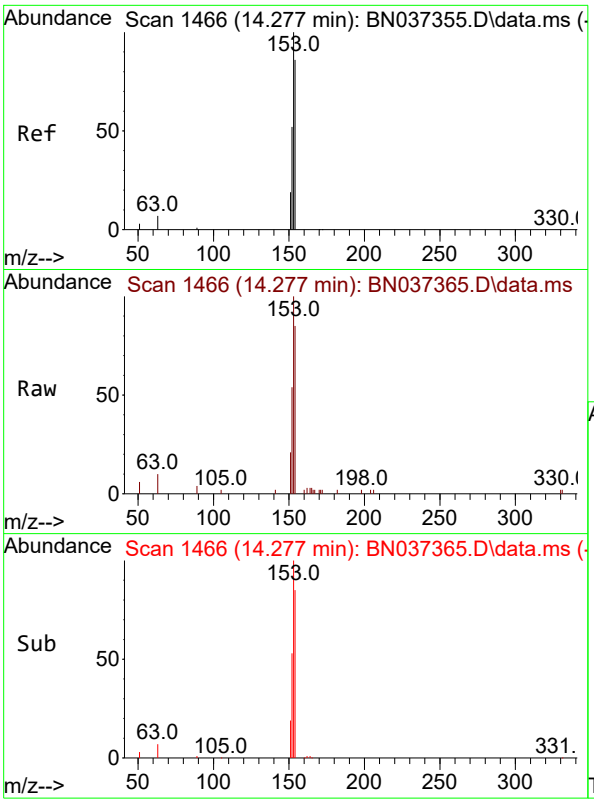


#16
Acenaphthylene
Concen: 0.384 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:152 Resp: 4498

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8
153	13.1	10.2	15.2





#17
Acenaphthene
Concen: 0.383 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 294

Ion	Ratio	Lower	Upper
154	100		
153	118.3	93.1	139.7
152	63.2	48.6	73.0

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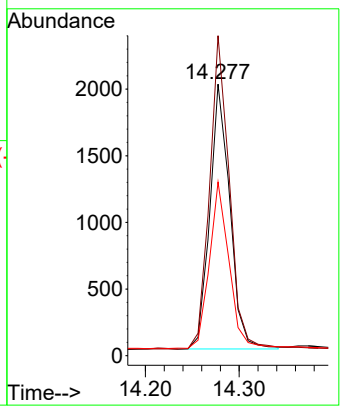
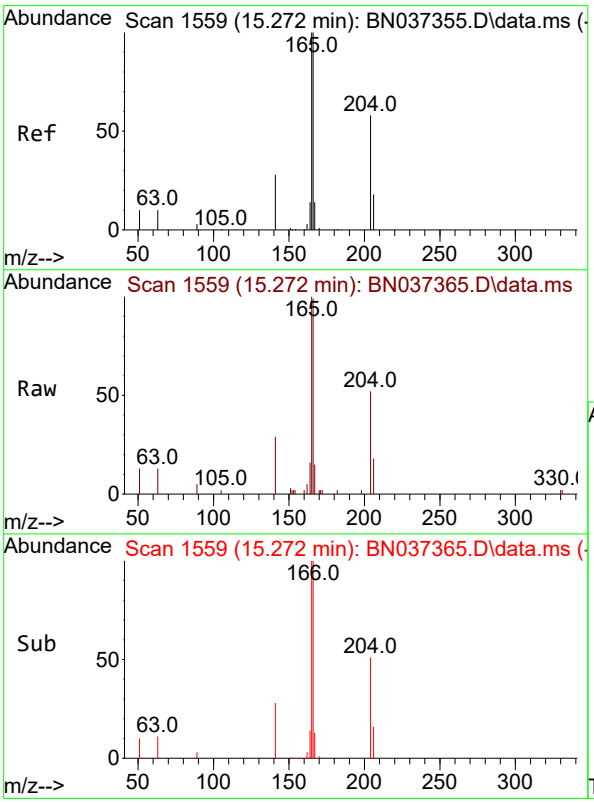
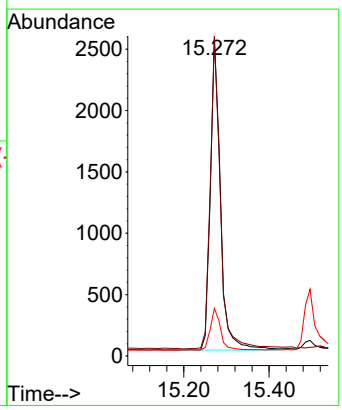


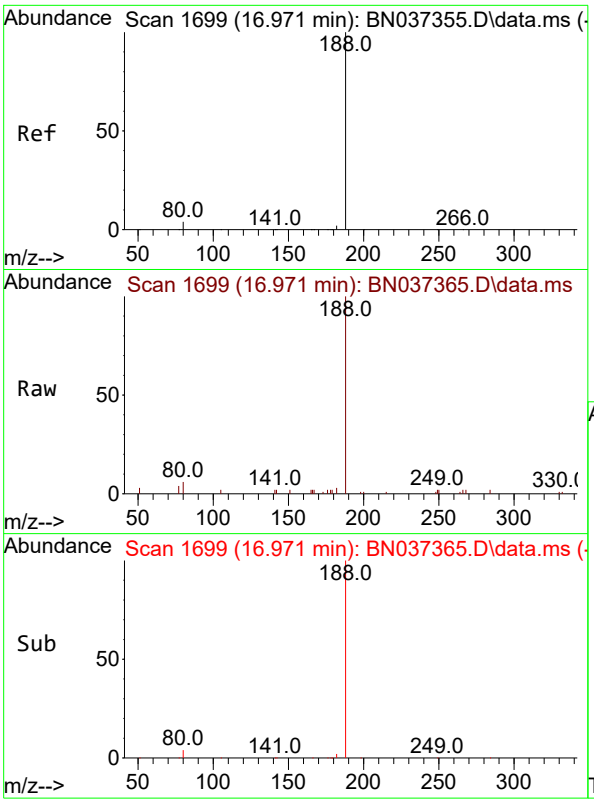


#18
Fluorene
Concen: 0.385 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:166 Resp: 4167

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.5	119.3
167	13.8	10.7	16.1

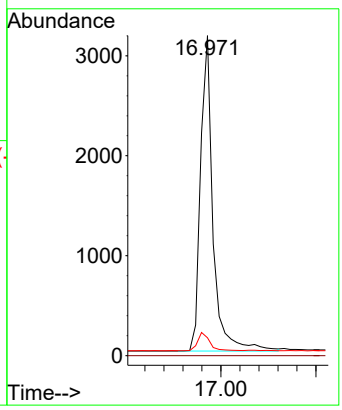




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:188 Resp: 574

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.6	6.2	9.2



Instrument :
BNA_N
ClientSampleId :
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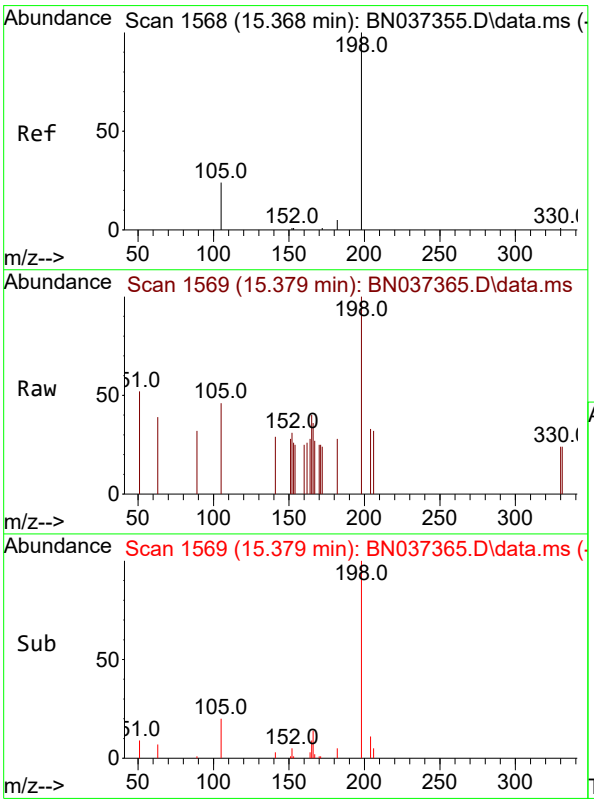
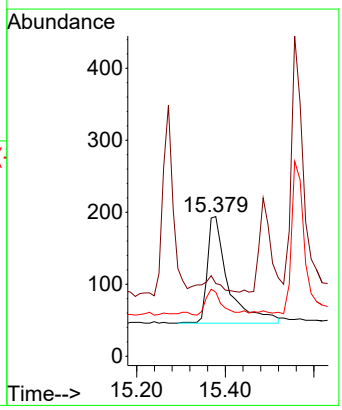
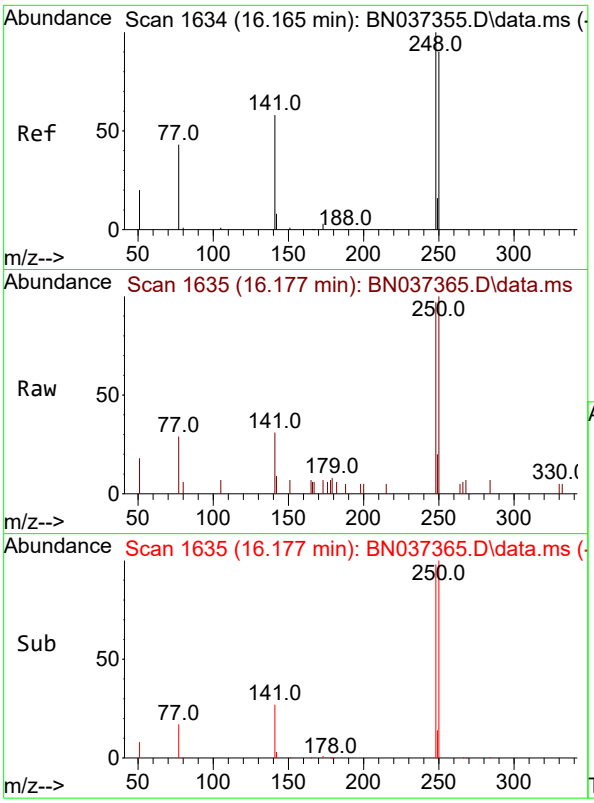


#20
4,6-Dinitro-2-methylphenol
Concen: 0.350 ng
RT: 15.379 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:198 Resp: 483

Ion	Ratio	Lower	Upper
198	100		
51	52.1	51.4	77.0
105	45.9	45.5	68.3

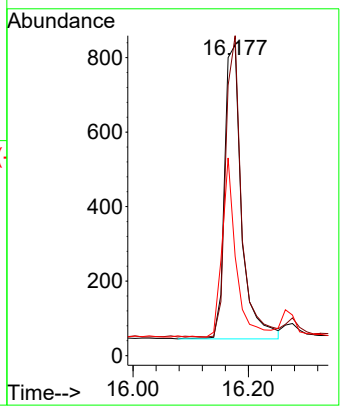




#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:248 Resp: 162

Ion	Ratio	Lower	Upper
248	100		
250	103.0	80.4	120.6
141	31.9	33.3	49.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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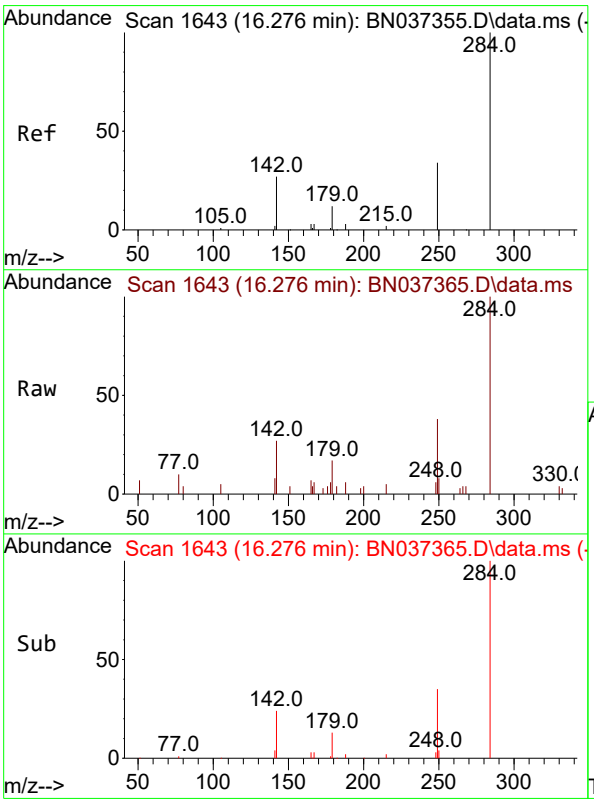
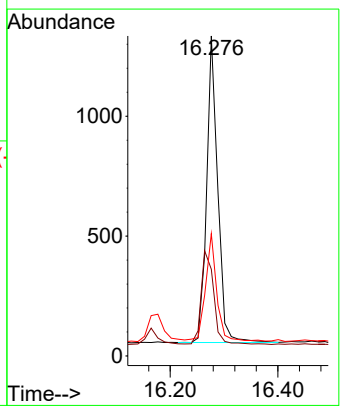
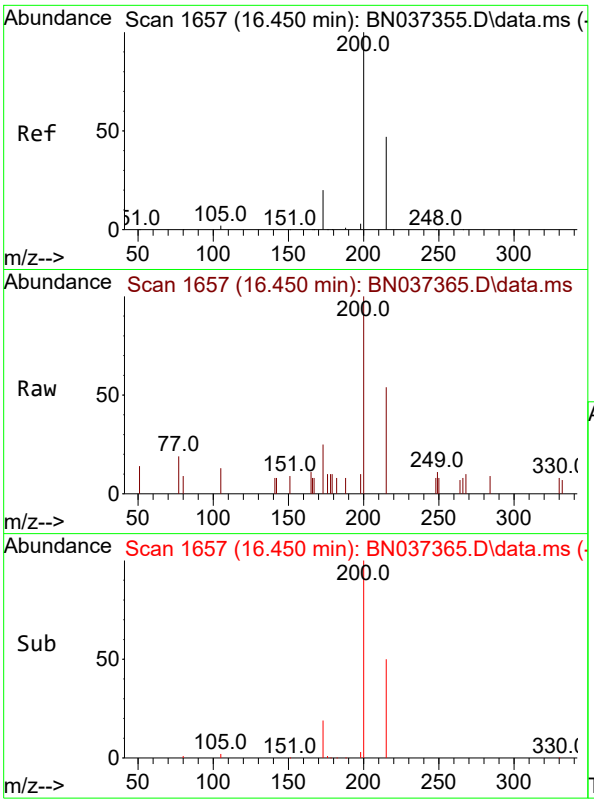


#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:284 Resp: 1819

Ion	Ratio	Lower	Upper
284	100		
142	34.9	27.0	40.6
249	35.5	28.8	43.2





#23
Atrazine
Concen: 0.364 ng
RT: 16.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:200 Resp: 118

Ion	Ratio	Lower	Upper
200	100		
173	25.3	29.2	43.8
215	53.8	48.8	73.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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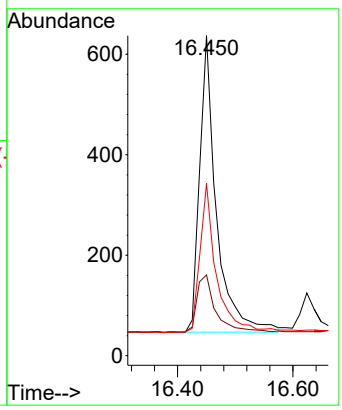
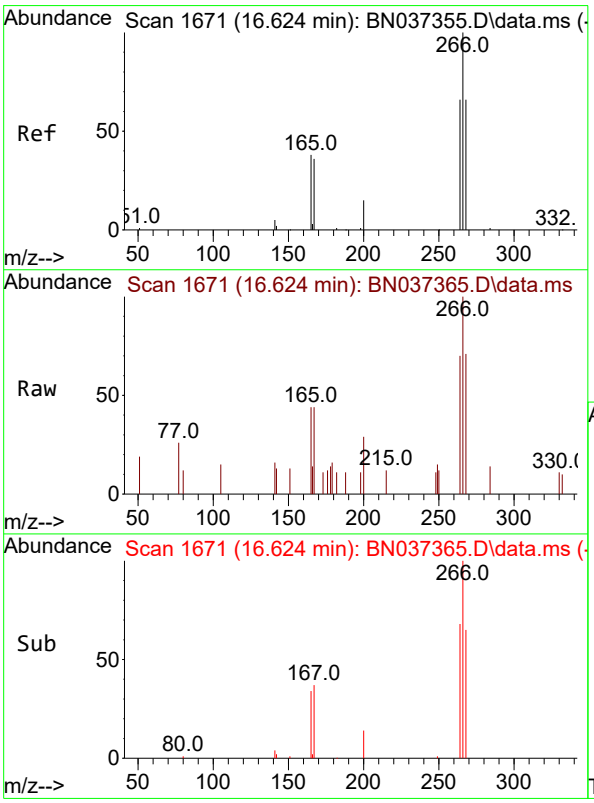
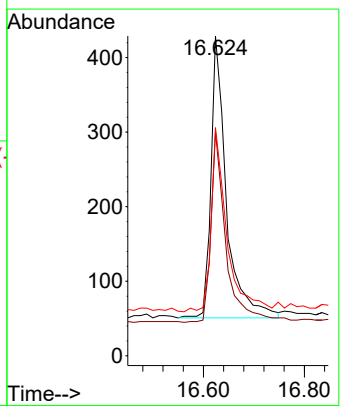


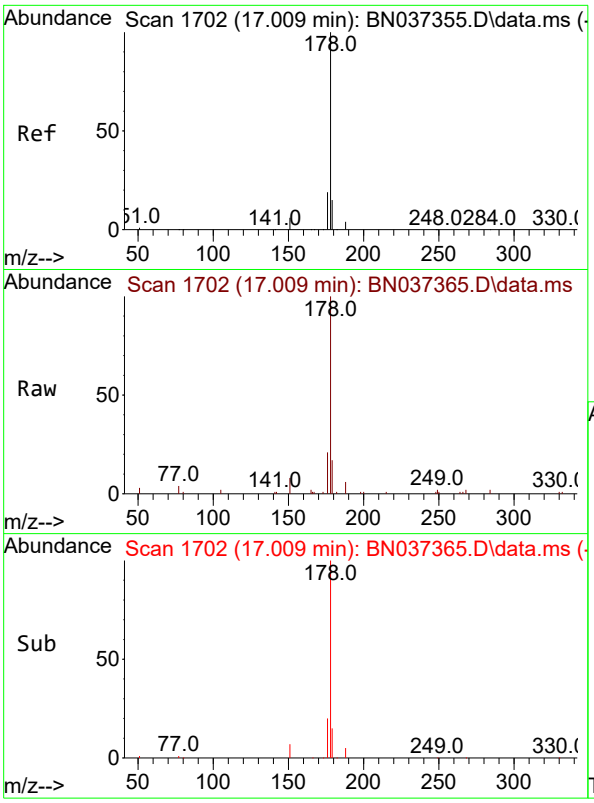


#24
Pentachlorophenol
Concen: 0.363 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:266 Resp: 805

Ion	Ratio	Lower	Upper
266	100		
264	65.6	50.3	75.5
268	66.2	55.3	82.9

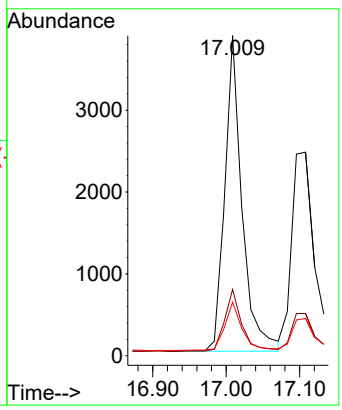




#25
Phenanthrene
Concen: 0.377 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:178 Resp: 628

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.5	12.9	19.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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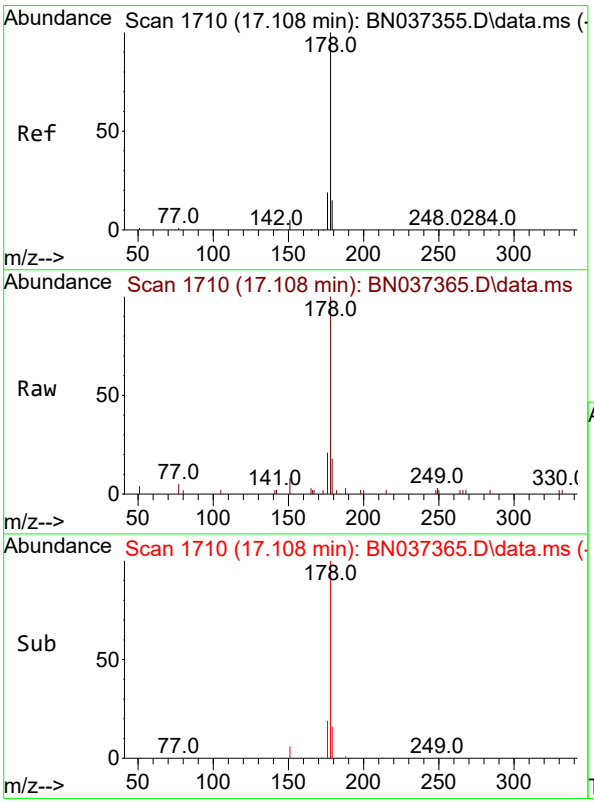
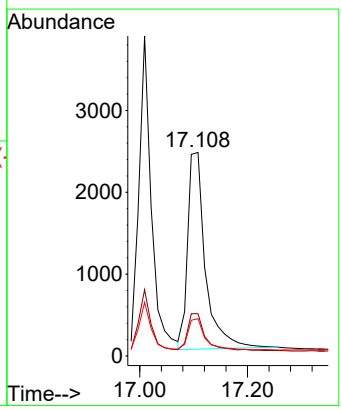
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

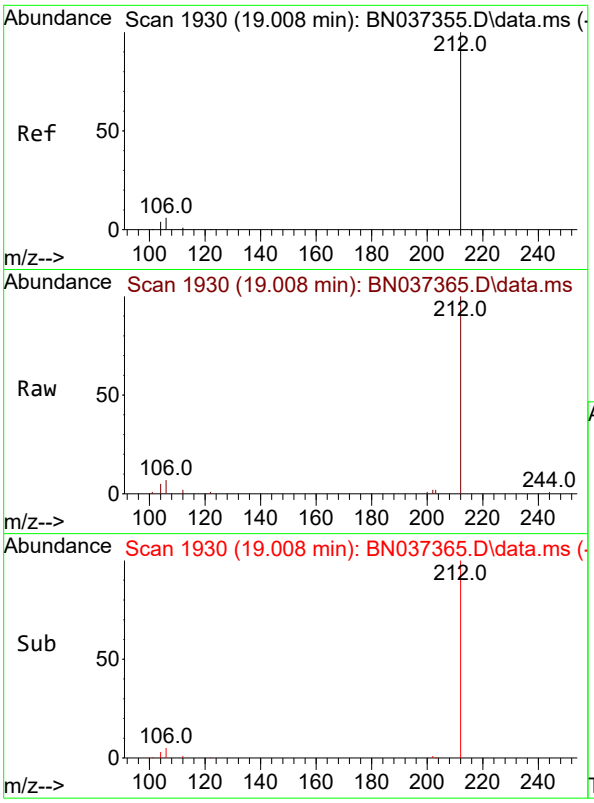


#26
Anthracene
Concen: 0.360 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:178 Resp: 5522

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.7	22.1
179	16.2	13.0	19.6





#27
Fluoranthene-d10
Concen: 0.414 ng
RT: 19.008 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 683

Ion	Ratio	Lower	Upper
212	100		
106	5.5	3.0	4.4#
104	3.4	2.0	3.0#

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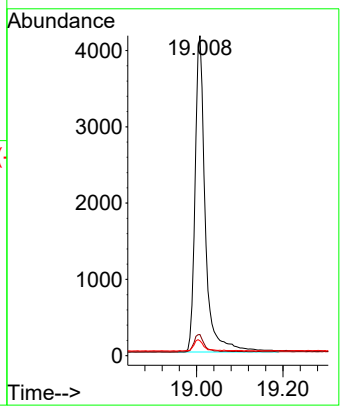
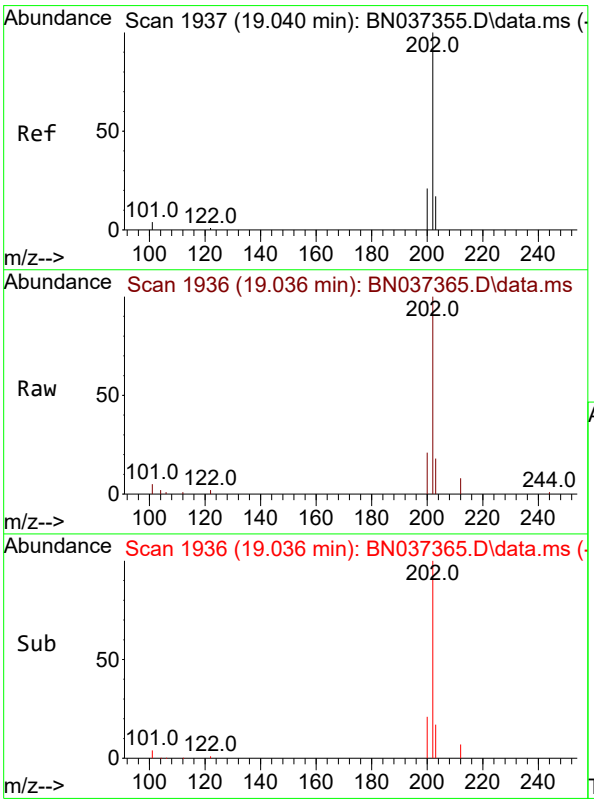
Supervised By :Jagrut Upadhyay 06/24/2025

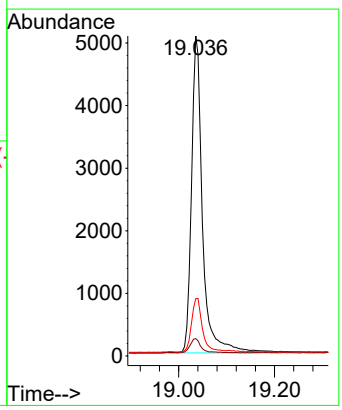


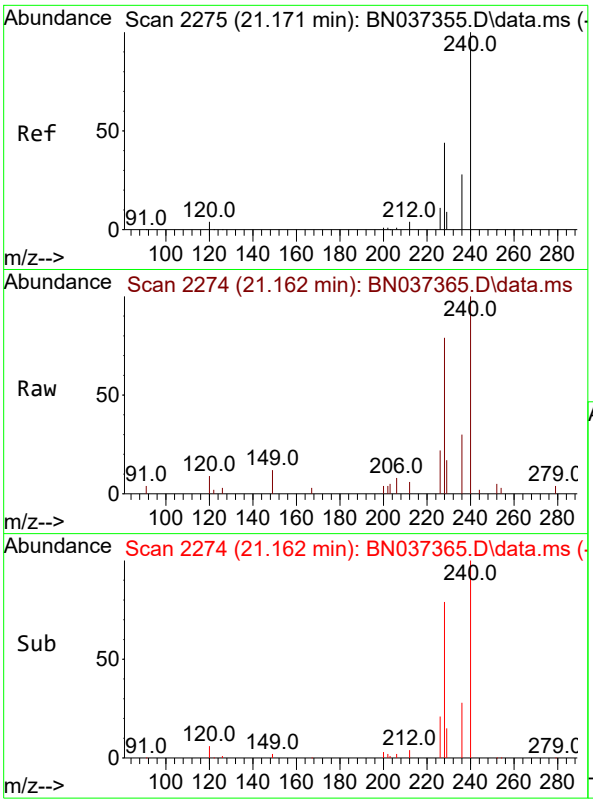


#28
Fluoranthene
Concen: 0.385 ng
RT: 19.036 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:202 Resp: 8102

Ion	Ratio	Lower	Upper
202	100		
101	4.5	3.0	4.6
203	16.4	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 514

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.5	11.3
236	30.2	24.9	37.3

Manual Integrations
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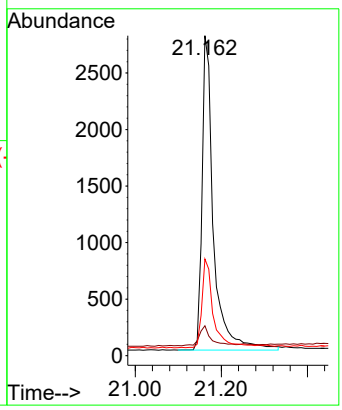
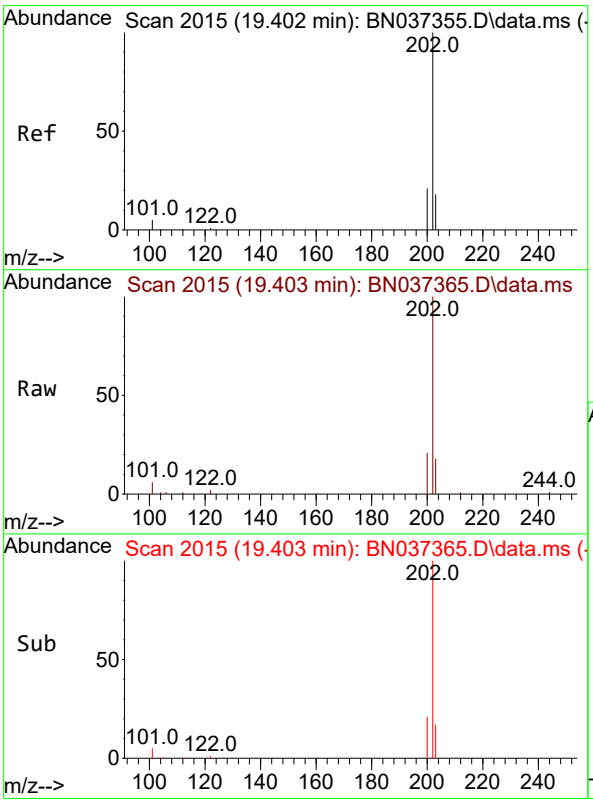
Supervised By :Jagrut Upadhyay 06/24/2025

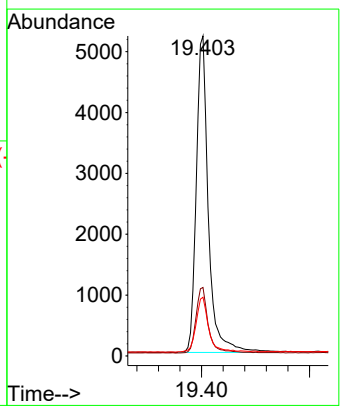


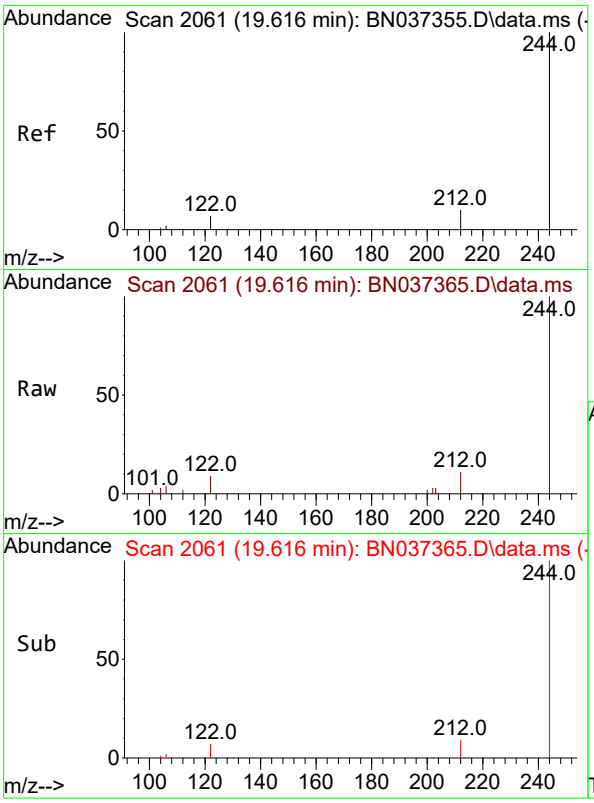


#30
Pyrene
Concen: 0.388 ng
RT: 19.403 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:202 Resp: 8105

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.5	21.7

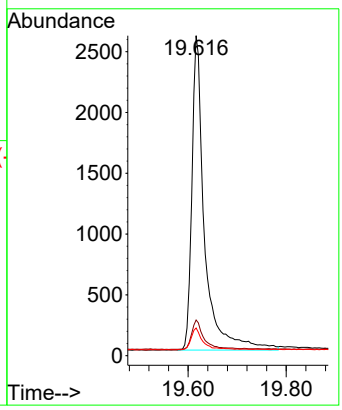




#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.616 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:244 Resp: 463

Ion	Ratio	Lower	Upper
244	100		
212	11.1	11.1	16.7
122	8.6	7.2	10.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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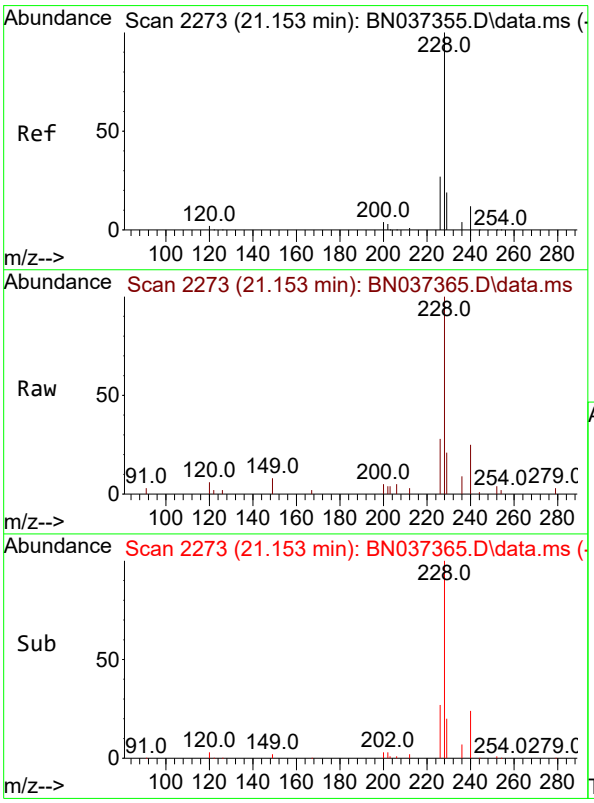
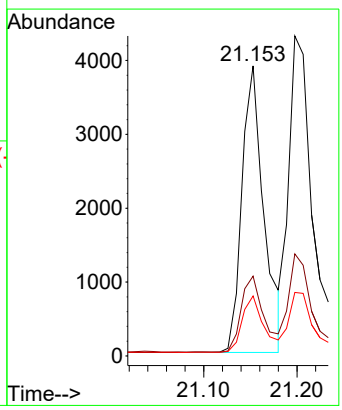
Supervised By :Jagrut Upadhyay 06/24/2025

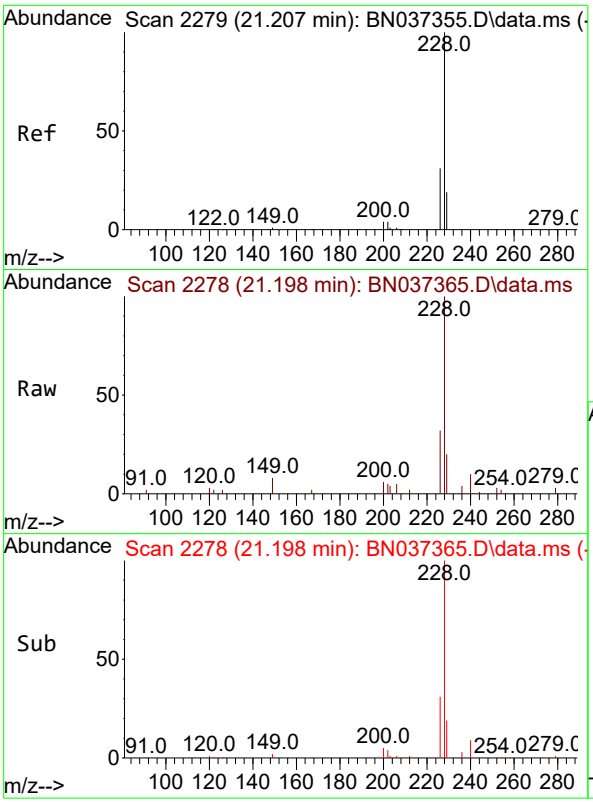


#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:228 Resp: 6359

Ion	Ratio	Lower	Upper
228	100		
226	27.5	23.0	34.4
229	20.7	17.4	26.0

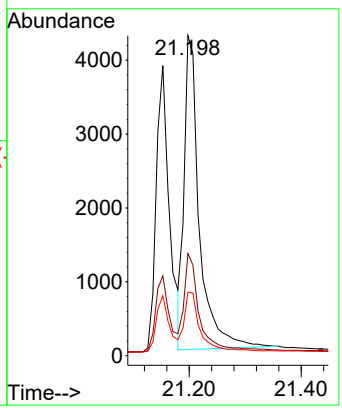




#33
Chrysene
Concen: 0.391 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:228 Resp: 801

Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.4	38.2
229	19.9	17.3	25.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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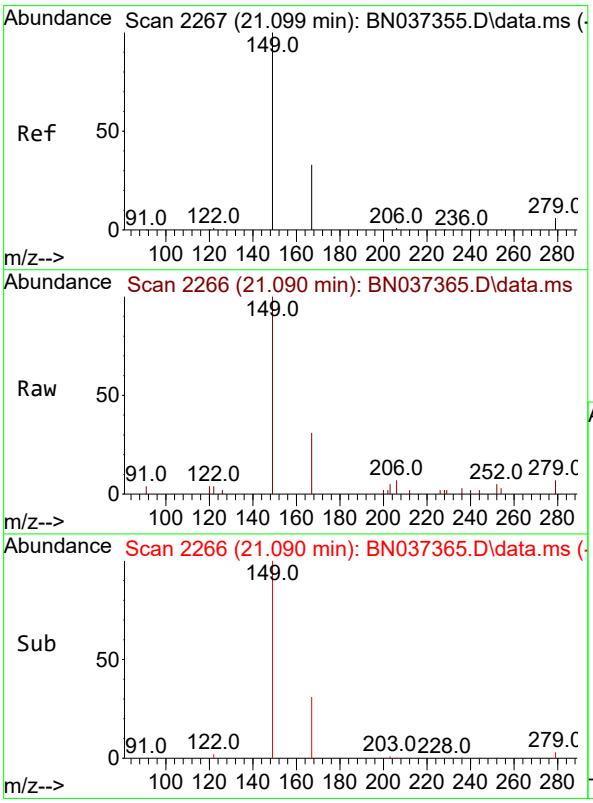
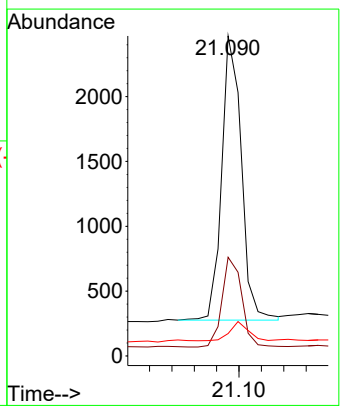
Supervised By :Jagrut Upadhyay 06/24/2025

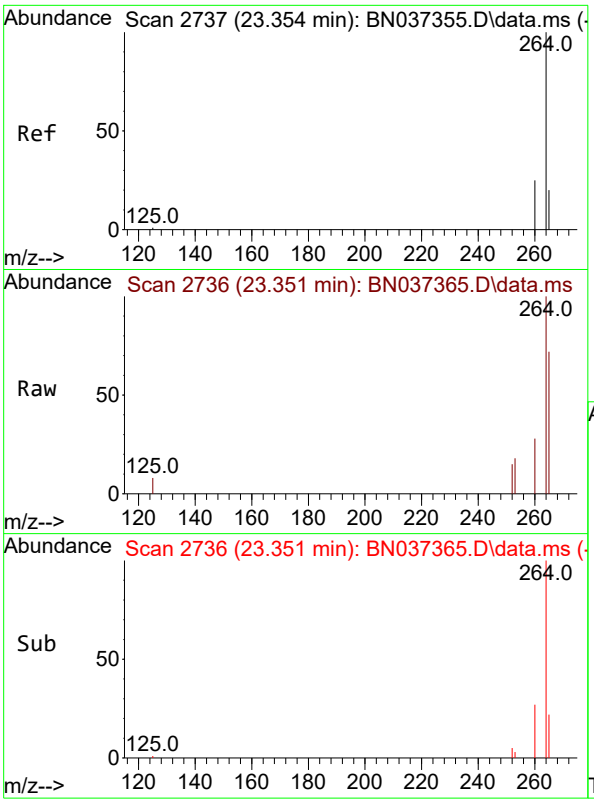


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.385 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:149 Resp: 2672

Ion	Ratio	Lower	Upper
149	100		
167	31.7	24.6	37.0
279	6.5	6.5	9.7#

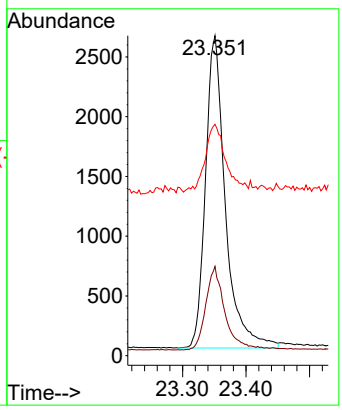




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:264 Resp: 568

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	72.3	71.4	107.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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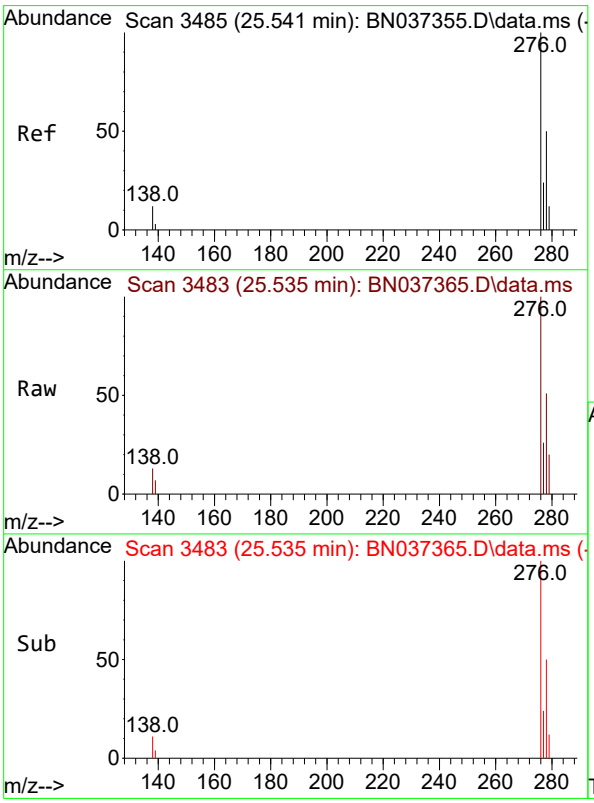
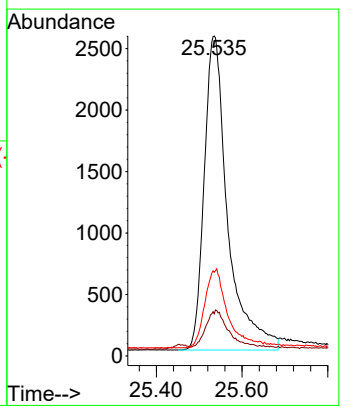
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

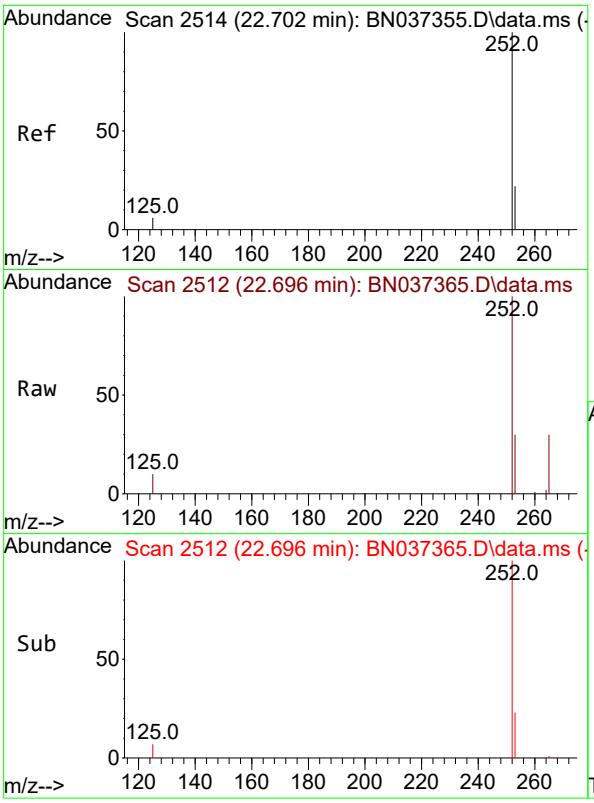


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 25.535 min Scan# 3483
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:276 Resp: 9725

Ion	Ratio	Lower	Upper
276	100		
138	11.2	2.2	3.2#
277	24.1	17.1	25.7

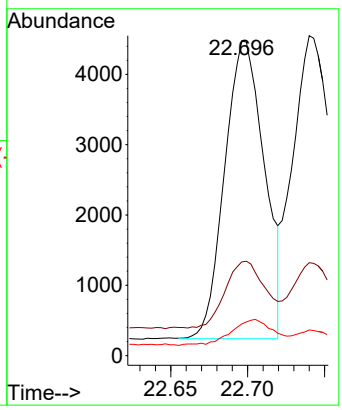




#37
Benzo(b)fluoranthene
Concen: 0.363 ng m
RT: 22.696 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:252 Resp: 759

Ion	Ratio	Lower	Upper
252	100		
253	29.8	26.6	40.0
125	10.0	6.1	9.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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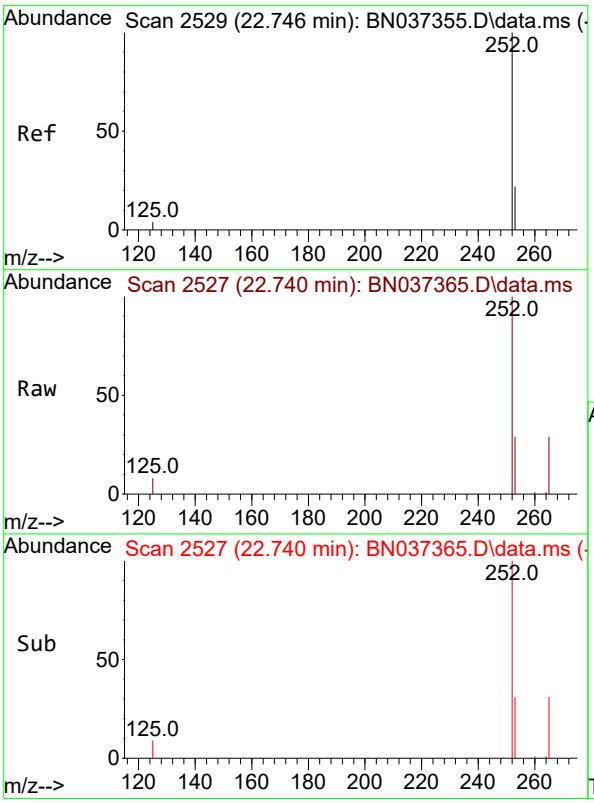
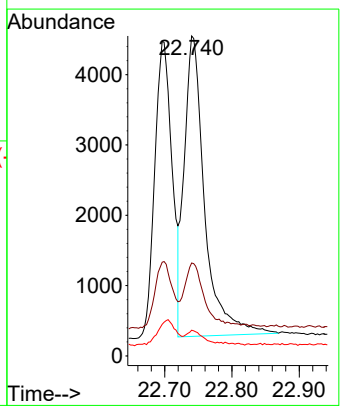
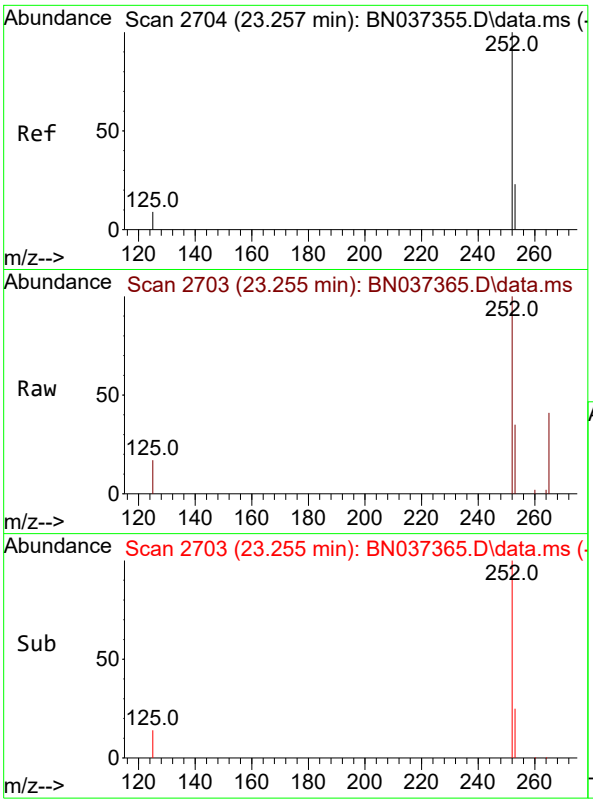


#38
Benzo(k)fluoranthene
Concen: 0.398 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:252 Resp: 9018

Ion	Ratio	Lower	Upper
252	100		
253	29.0	26.7	40.1
125	8.1	6.5	9.7

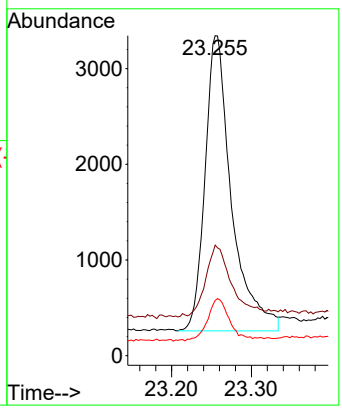




#39
Benzo(a)pyrene
Concen: 0.380 ng
RT: 23.255 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:252 Resp: 712

Ion	Ratio	Lower	Upper
252	100		
253	34.6	31.6	47.4
125	17.3	8.4	12.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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Reviewed By :Rahul Chavli 06/23/2025
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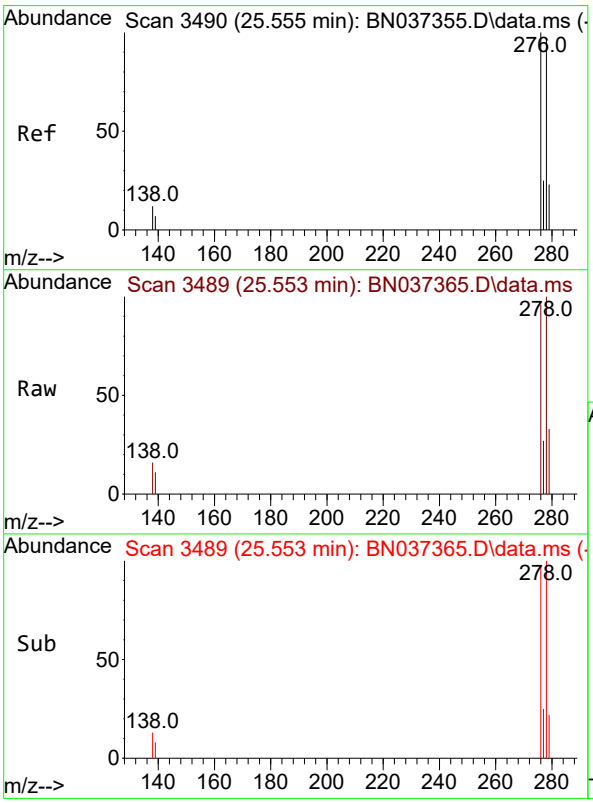
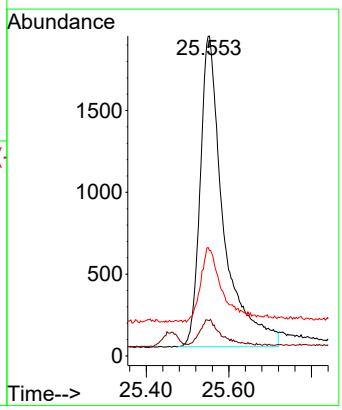
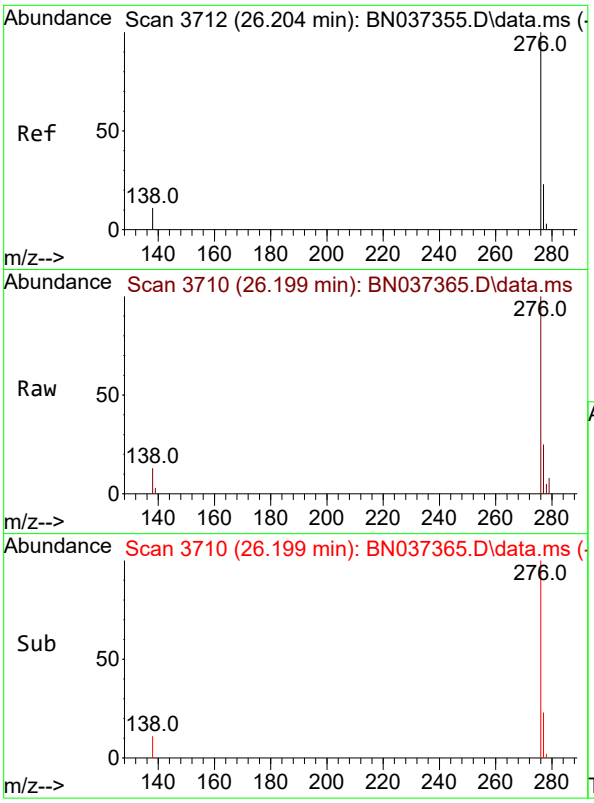


#40
Dibenzo(a,h)anthracene
Concen: 0.388 ng
RT: 25.553 min Scan# 3489
Delta R.T. -0.003 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:278 Resp: 7424

Ion	Ratio	Lower	Upper
278	100		
139	11.0	10.2	15.4
279	33.0	35.6	53.4#

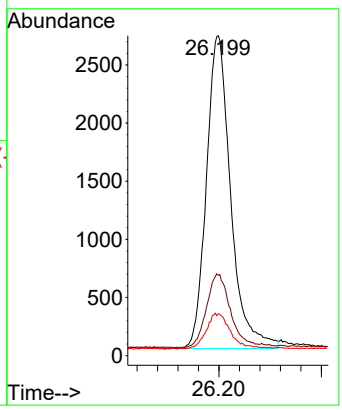




#41
Benzo(g,h,i)perylene
Concen: 0.389 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:276 Resp: 885

Ion	Ratio	Lower	Upper
276	100		
277	25.1	22.7	34.1
138	13.1	9.4	14.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

Sample Results: **BN037365.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 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	99	0.00
2		1,4-Dioxane	0.407	0.399	2.0	101	0.00
3		n-Nitrosodimethylamine	0.373	0.370	0.8	93	0.00
4	S	2-Fluorophenol	0.799	0.740	7.4	98	0.00
5	S	Phenol-d6	0.823	0.753	8.5	97	0.00
6		bis(2-Chloroethyl)ether	0.730	0.673	7.8	94	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
8	S	Nitrobenzene-d5	0.323	0.318	1.5	100	0.00
9		Naphthalene	1.056	1.038	1.7	99	0.00
10		Hexachlorobutadiene	0.417	0.452	-8.4	102	0.00
11	SURR	2-Methylnaphthalene-d10	0.648	0.670	-3.4	100	0.00
12		2-Methylnaphthalene	0.736	0.709	3.7	99	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00
14	S	2,4,6-Tribromophenol	0.235	0.218	7.2	94	0.00
15	S	2-Fluorobiphenyl	1.757	1.777	-1.1	99	0.00
16		Acenaphthylene	1.682	1.615	4.0	100	0.00
17		Acenaphthene	1.107	1.059	4.3	99	0.00
18		Fluorene	1.556	1.496	3.9	98	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
20		4,6-Dinitro-2-methylphenol	0.096	0.084	12.5	105	0.01
21		4-Bromophenyl-phenylether	0.285	0.282	1.1	101	0.01
22		Hexachlorobenzene	0.310	0.316	-1.9	100	0.00
23		Atrazine	0.227	0.207	8.8	94	0.00
24		Pentachlorophenol	0.154	0.140	9.1	102	0.00
25		Phenanthrene	1.158	1.093	5.6	99	0.00
26		Anthracene	1.068	0.961	10.0	97	0.00
27	SURR	Fluoranthene-d10	1.148	1.189	-3.6	102	0.00
28		Fluoranthene	1.464	1.410	3.7	103	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
30		Pyrene	1.625	1.577	3.0	101	0.00
31	S	Terphenyl-d14	0.912	0.903	1.0	104	0.00
32		Benzo(a)anthracene	1.315	1.237	5.9	109	0.00
33		Chrysene	1.594	1.559	2.2	103	0.00
34		Bis(2-ethylhexyl)phthalate	0.540	0.520	3.7	103	0.00
35	I	Perylene-d12	1.000	1.000	0.0	115	0.00
36		Indeno(1,2,3-cd)pyrene	1.794	1.712	4.6	116	0.00
37		Benzo(b)fluoranthene	1.472	1.336	9.2	106	0.00
38		Benzo(k)fluoranthene	1.597	1.587	0.6	116	0.00
39	C	Benzo(a)pyrene	1.319	1.253	5.0	113	0.00
40		Dibenzo(a,h)anthracene	1.348	1.307	3.0	122	0.00
41		Benzo(g,h,i)perylene	1.603	1.559	2.7	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Sample Results: **BN037365.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 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	99	0.00
2		1,4-Dioxane	0.400	0.392	2.0	101	0.00
3		n-Nitrosodimethylamine	0.400	0.397	0.8	93	0.00
4	S	2-Fluorophenol	0.400	0.370	7.5	98	0.00
5	S	Phenol-d6	0.400	0.366	8.5	97	0.00
6		bis(2-Chloroethyl)ether	0.400	0.368	8.0	94	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	100	0.00
8	S	Nitrobenzene-d5	0.400	0.394	1.5	100	0.00
9		Naphthalene	0.400	0.393	1.8	99	0.00
10		Hexachlorobutadiene	0.400	0.434	-8.5	102	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.413	-3.2	100	0.00
12		2-Methylnaphthalene	0.400	0.385	3.8	99	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	99	0.00
14	S	2,4,6-Tribromophenol	0.400	0.372	7.0	94	0.00
15	S	2-Fluorobiphenyl	0.400	0.405	-1.3	99	0.00
16		Acenaphthylene	0.400	0.384	4.0	100	0.00
17		Acenaphthene	0.400	0.383	4.3	99	0.00
18		Fluorene	0.400	0.385	3.8	98	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	100	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.350	12.5	105	0.01
21		4-Bromophenyl-phenylether	0.400	0.396	1.0	101	0.01
22		Hexachlorobenzene	0.400	0.408	-2.0	100	0.00
23		Atrazine	0.400	0.364	9.0	94	0.00
24		Pentachlorophenol	0.400	0.363	9.3	102	0.00
25		Phenanthrene	0.400	0.377	5.8	99	0.00
26		Anthracene	0.400	0.360	10.0	97	0.00
27	SURR	Fluoranthene-d10	0.400	0.414	-3.5	102	0.00
28		Fluoranthene	0.400	0.385	3.8	103	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	107	0.00
30		Pyrene	0.400	0.388	3.0	101	0.00
31	S	Terphenyl-d14	0.400	0.396	1.0	104	0.00
32		Benzo(a)anthracene	0.400	0.376	6.0	109	0.00
33		Chrysene	0.400	0.391	2.3	103	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.385	3.8	103	0.00
35	I	Perylene-d12	0.400	0.400	0.0	115	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.382	4.5	116	0.00
37		Benzo(b)fluoranthene	0.400	0.363	9.3	106	0.00
38		Benzo(k)fluoranthene	0.400	0.398	0.5	116	0.00
39	C	Benzo(a)pyrene	0.400	0.380	5.0	113	0.00
40		Dibenzo(a,h)anthracene	0.400	0.388	3.0	122	0.00
41		Benzo(g,h,i)perylene	0.400	0.389	2.8	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG No.: Q2375

Instrument ID: BNA_N Calibration Date/Time: 06/26/2025 21:38

Lab File ID: BN037403.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.590		-4.7	20.0
Fluoranthene-d10	1.146	1.145		-0.1	20.0
2-Fluorophenol	0.771	0.749		-2.9	20.0
Phenol-d6	0.799	0.782		-2.1	20.0
Nitrobenzene-d5	0.321	0.301		-6.2	20.0
2-Fluorobiphenyl	1.727	1.728		0.1	20.0
2,4,6-Tribromophenol	0.235	0.289		23.0	20.0
Terphenyl-d14	0.853	0.867		1.6	20.0
1,4-Dioxane	0.379	0.373		-1.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037403.D
Acq On : 26 Jun 2025 21:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 27 03:00:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

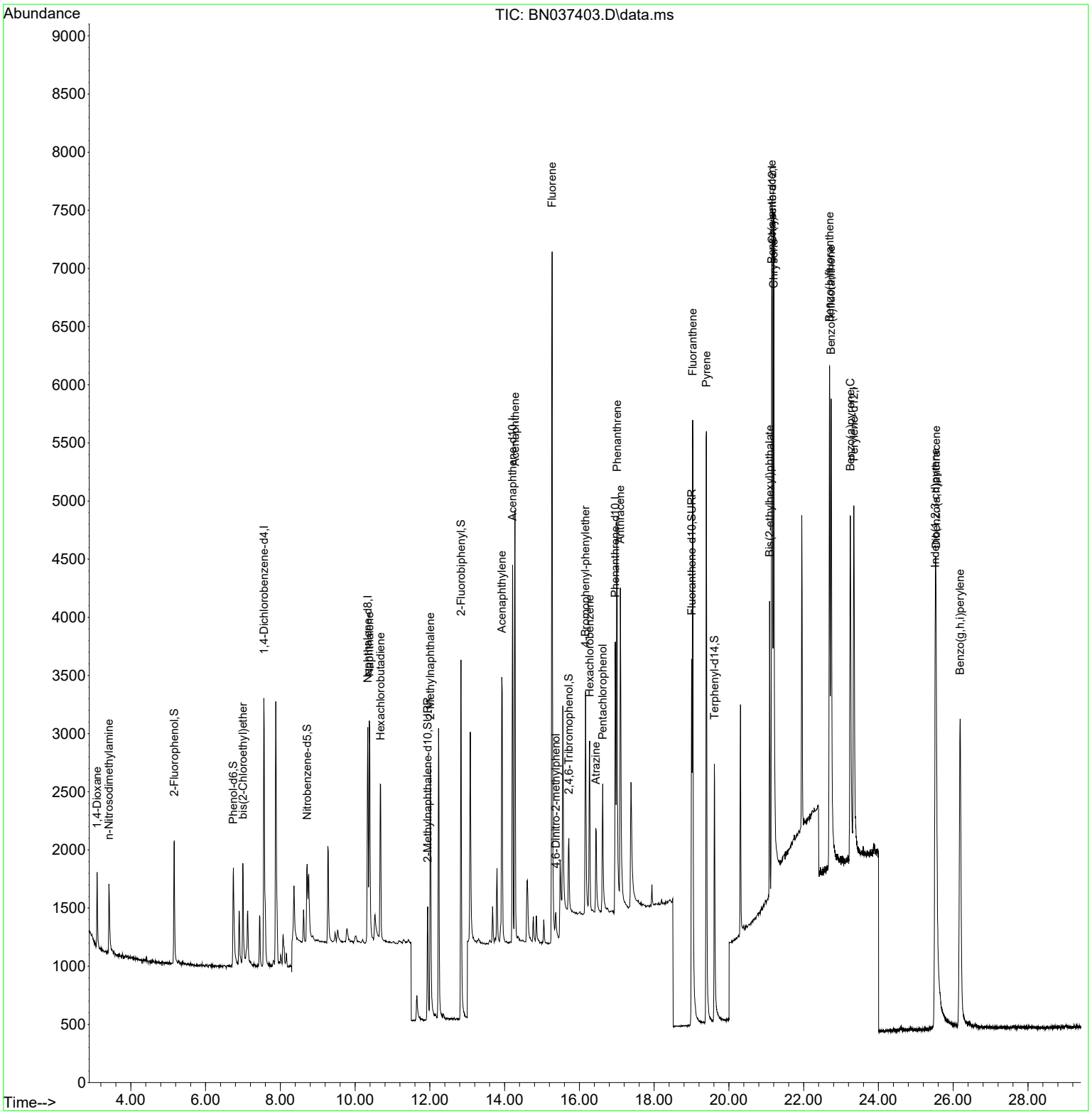
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.560	152	1253	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	2741	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	1842	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	3978	0.400	ng		0.00
29) Chrysene-d12	21.162	240	3956	0.400	ng		0.00
35) Perylene-d12	23.342	264	4281	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	939	0.389	ng		0.00
5) Phenol-d6	6.744	99	980	0.391	ng		0.00
8) Nitrobenzene-d5	8.717	82	824	0.375	ng		0.00
11) 2-Methylnaphthalene-d10	11.940	152	1618	0.382	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	532	0.492	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	3183	0.400	ng		0.00
27) Fluoranthene-d10	19.003	212	4555	0.400	ng		0.00
31) Terphenyl-d14	19.611	244	3431	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.097	88	467	0.393	ng		96
3) n-Nitrosodimethylamine	3.415	42	469	0.400	ng	#	90
6) bis(2-Chloroethyl)ether	6.997	93	828	0.372	ng		95
9) Naphthalene	10.383	128	2760	0.391	ng		97
10) Hexachlorobutadiene	10.682	225	1242	0.443	ng	#	99
12) 2-Methylnaphthalene	12.011	142	1868	0.385	ng		95
16) Acenaphthylene	13.924	152	2920	0.382	ng		99
17) Acenaphthene	14.277	154	1878	0.376	ng		99
18) Fluorene	15.271	166	2778	0.394	ng		99
20) 4,6-Dinitro-2-methylph...	15.368	198	435	0.426	ng		97
21) 4-Bromophenyl-phenylether	16.165	248	1143	0.407	ng		99
22) Hexachlorobenzene	16.276	284	1236	0.410	ng		97
23) Atrazine	16.438	200	901	0.405	ng	#	92
24) Pentachlorophenol	16.624	266	737	0.452	ng		94
25) Phenanthrene	17.009	178	4265	0.381	ng		100
26) Anthracene	17.095	178	3988	0.387	ng		99
28) Fluoranthene	19.031	202	5729	0.400	ng		99
30) Pyrene	19.398	202	5716	0.382	ng		100
32) Benzo(a)anthracene	21.144	228	4770	0.384	ng		99
33) Chrysene	21.197	228	6302	0.410	ng		99
34) Bis(2-ethylhexyl)phtha...	21.090	149	2069	0.420	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.520	276	7185	0.398	ng		97
37) Benzo(b)fluoranthene	22.690	252	5748	0.381	ng		99
38) Benzo(k)fluoranthene	22.734	252	6484	0.402	ng		99
39) Benzo(a)pyrene	23.249	252	5244	0.391	ng		96
40) Dibenzo(a,h)anthracene	25.541	278	5585	0.403	ng		98
41) Benzo(g,h,i)perylene	26.184	276	6411	0.387	ng		99

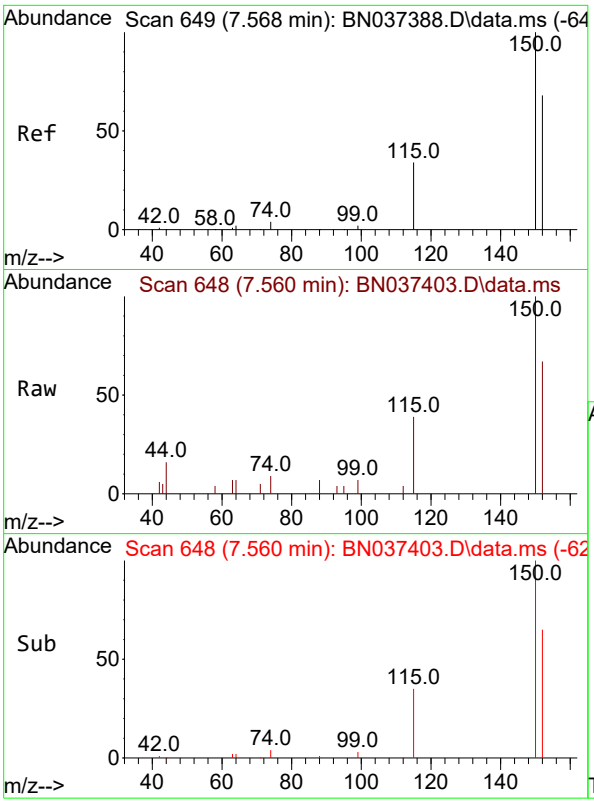
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037403.D
Acq On : 26 Jun 2025 21:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 27 03:00:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



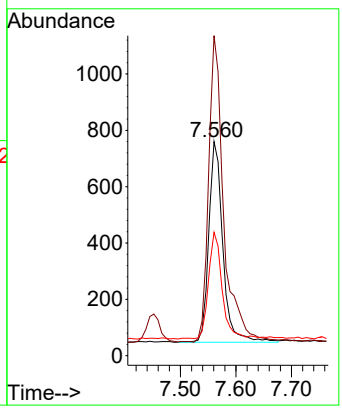


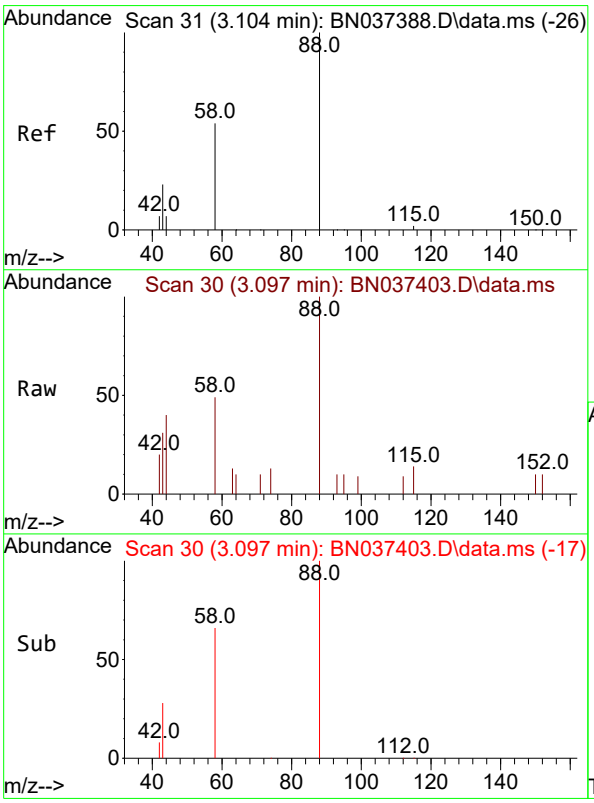
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1253

Ion	Ratio	Lower	Upper
152	100		
150	149.5	116.2	174.2
115	57.6	42.9	64.3

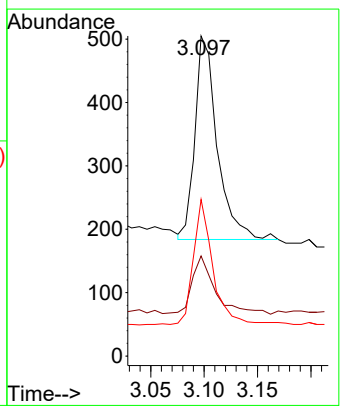


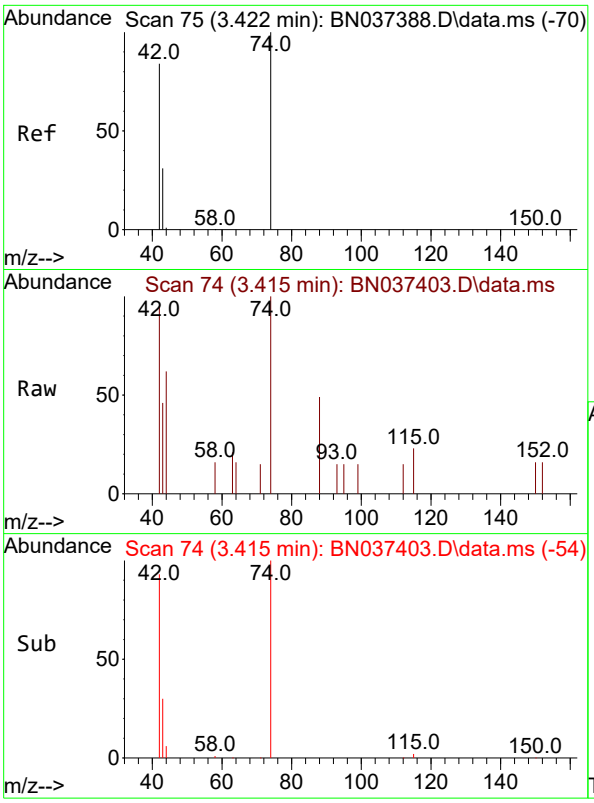


#2
1,4-Dioxane
Concen: 0.393 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion: 88 Resp: 467

Ion	Ratio	Lower	Upper
88	100		
43	29.6	21.6	32.4
58	54.8	45.9	68.9



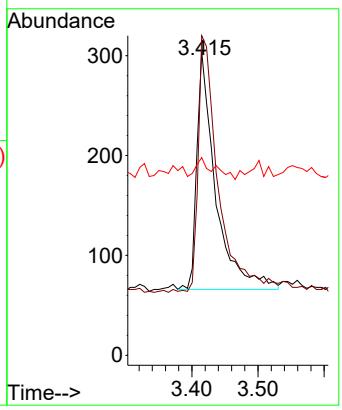


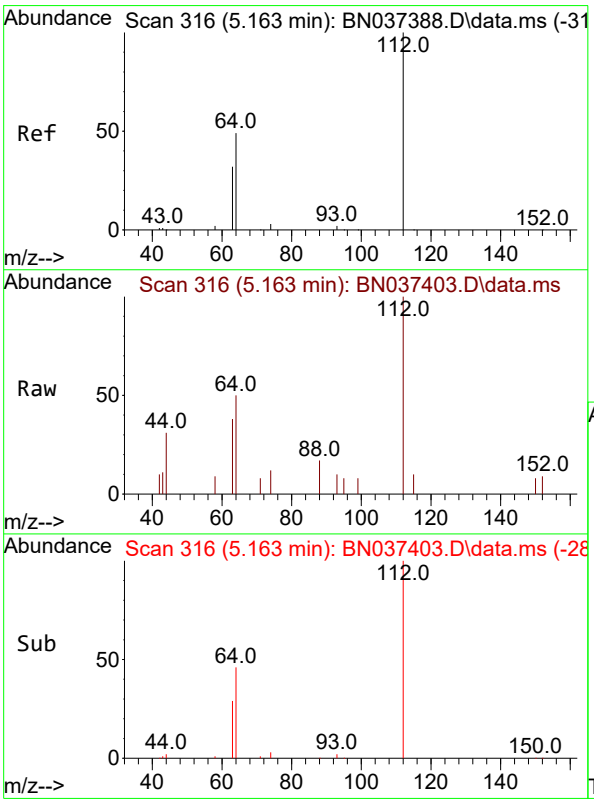
#3
n-Nitrosodimethylamine
Concen: 0.400 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 469

Ion	Ratio	Lower	Upper
42	100		
74	112.4	97.8	146.8
44	4.3	8.7	13.1#

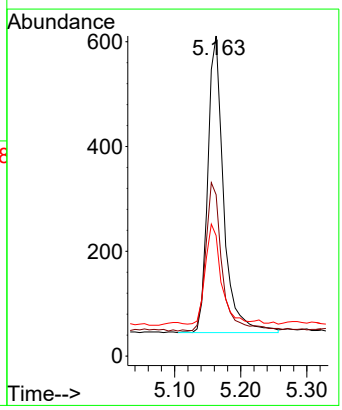


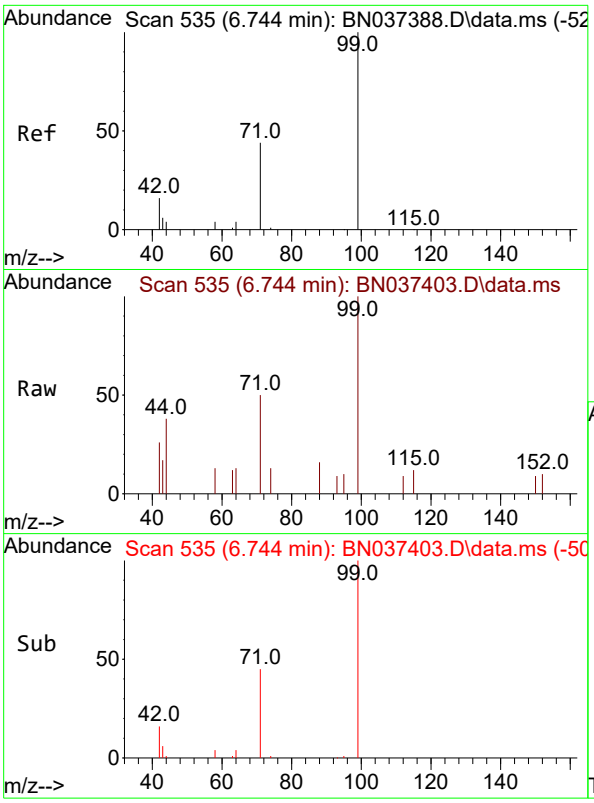


#4
2-Fluorophenol
Concen: 0.389 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:112 Resp: 939

Ion	Ratio	Lower	Upper
112	100		
64	52.6	40.3	60.5
63	33.5	26.1	39.1



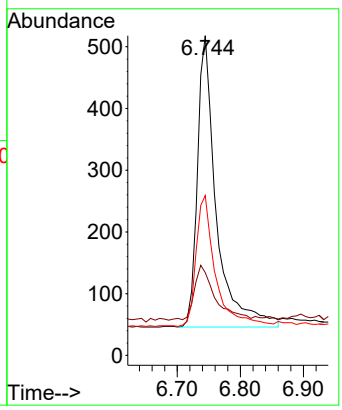


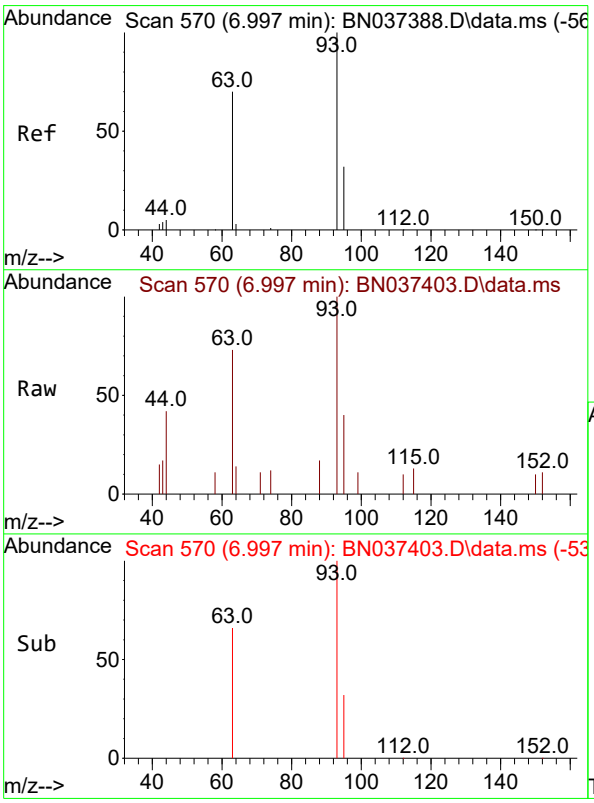
#5
Phenol-d6
Concen: 0.391 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 980

Ion	Ratio	Lower	Upper
99	100		
42	21.3	15.6	23.4
71	46.0	35.8	53.8

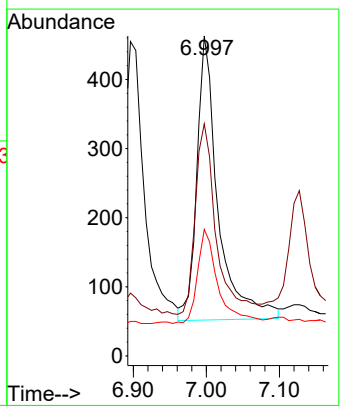


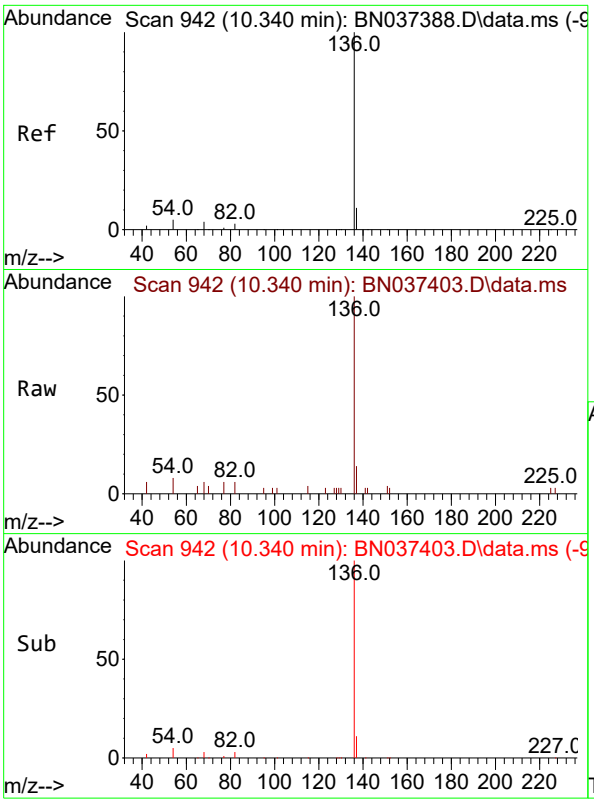


#6
bis(2-Chloroethyl)ether
Concen: 0.372 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion: 93 Resp: 828

Ion	Ratio	Lower	Upper
93	100		
63	65.8	49.6	74.4
95	31.9	23.9	35.9



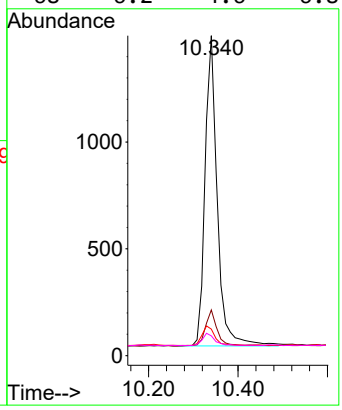


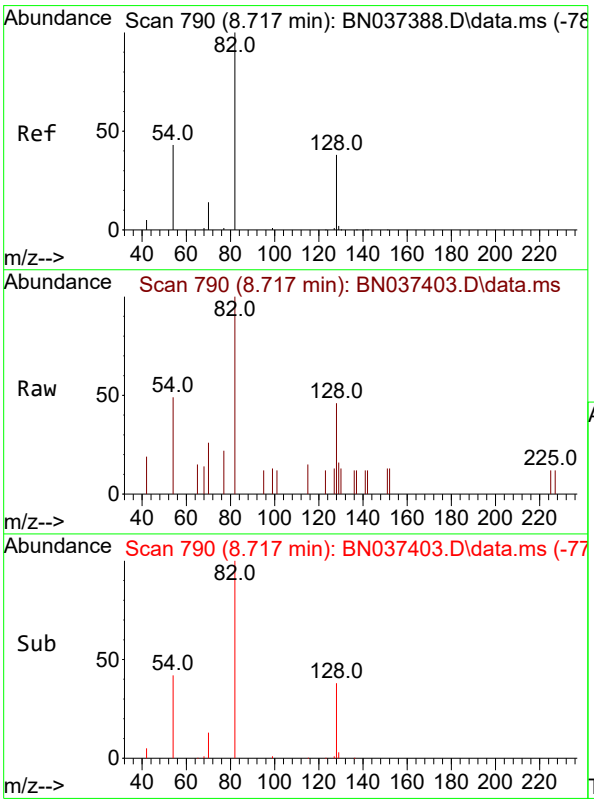
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 2741

Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.4	15.6
54	8.3	5.6	8.4
68	6.2	4.6	6.8

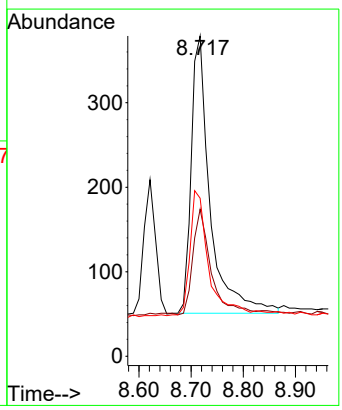


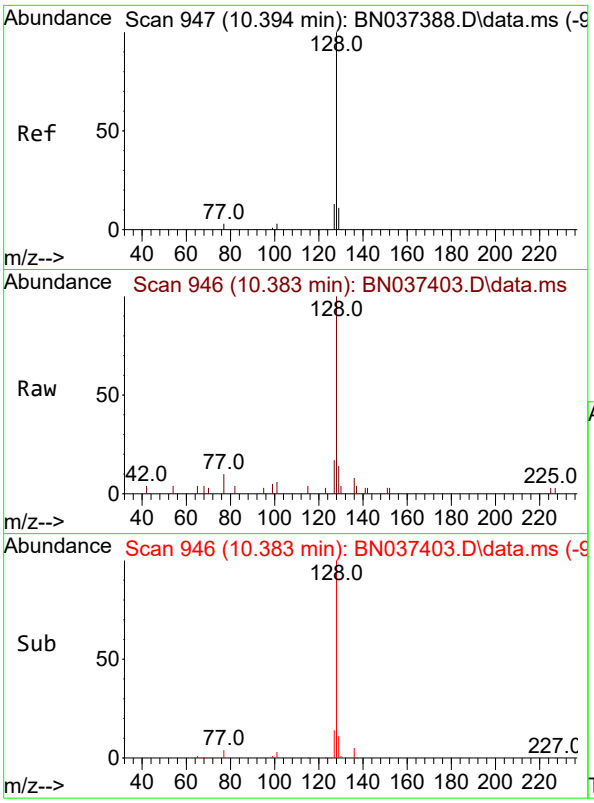


#8
Nitrobenzene-d5
Concen: 0.375 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion: 82 Resp: 824

Ion	Ratio	Lower	Upper
82	100		
128	45.9	34.0	51.0
54	49.3	37.7	56.5



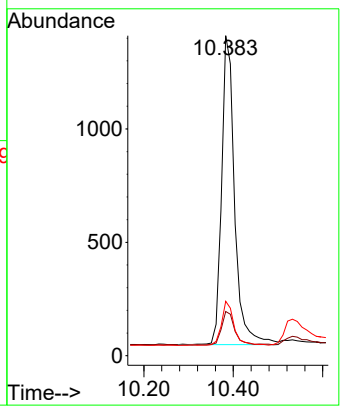


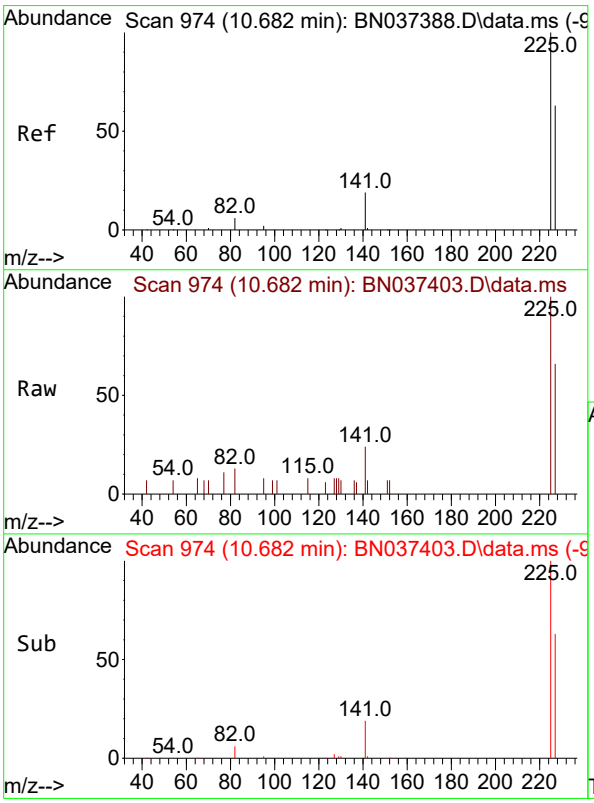
#9
Naphthalene
Concen: 0.391 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 2760

Ion	Ratio	Lower	Upper
128	100		
129	13.8	10.4	15.6
127	17.0	12.2	18.4

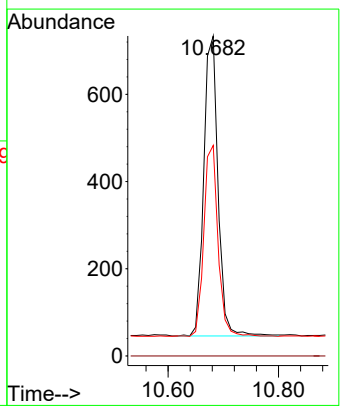


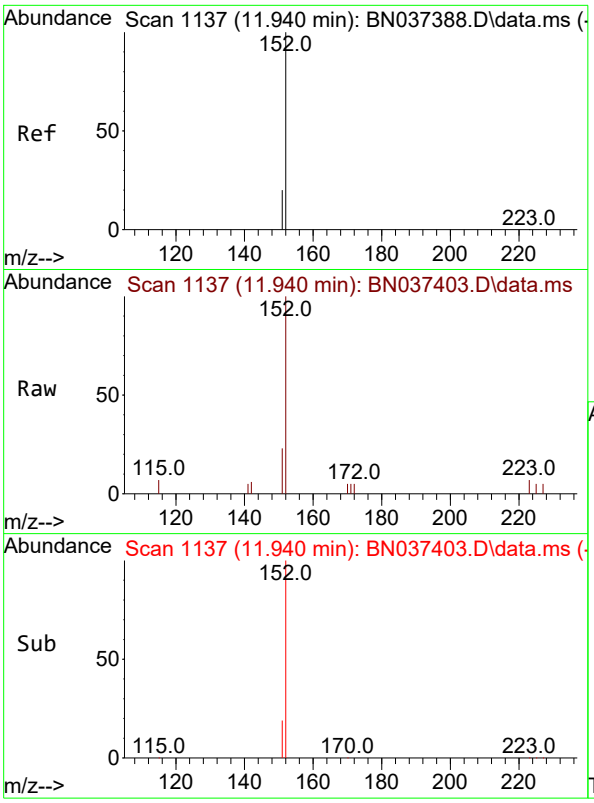


#10
Hexachlorobutadiene
Concen: 0.443 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:225 Resp: 1242

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	49.9	74.9



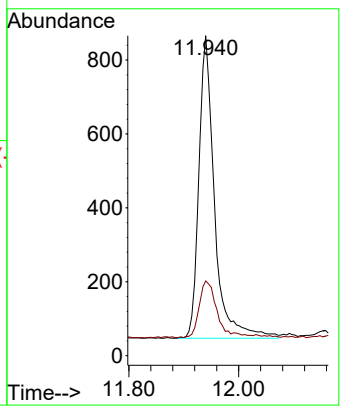


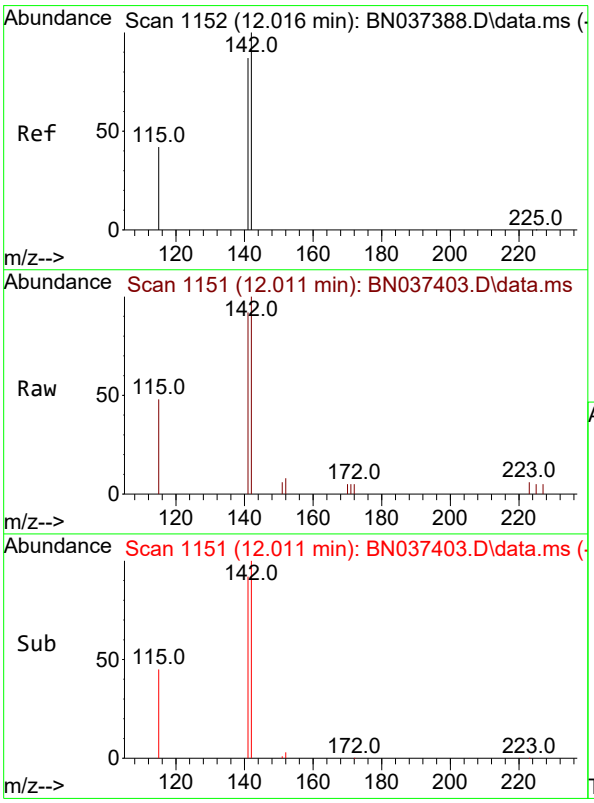
#11
2-Methylnaphthalene-d10
Concen: 0.382 ng
RT: 11.940 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1618

Ion	Ratio	Lower	Upper
152	100		
151	21.3	18.4	27.6

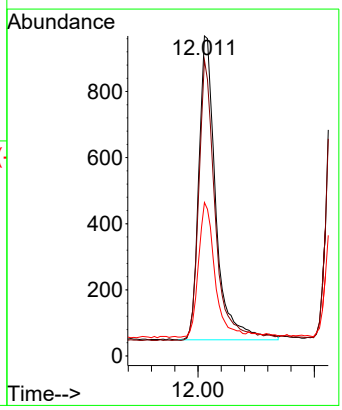


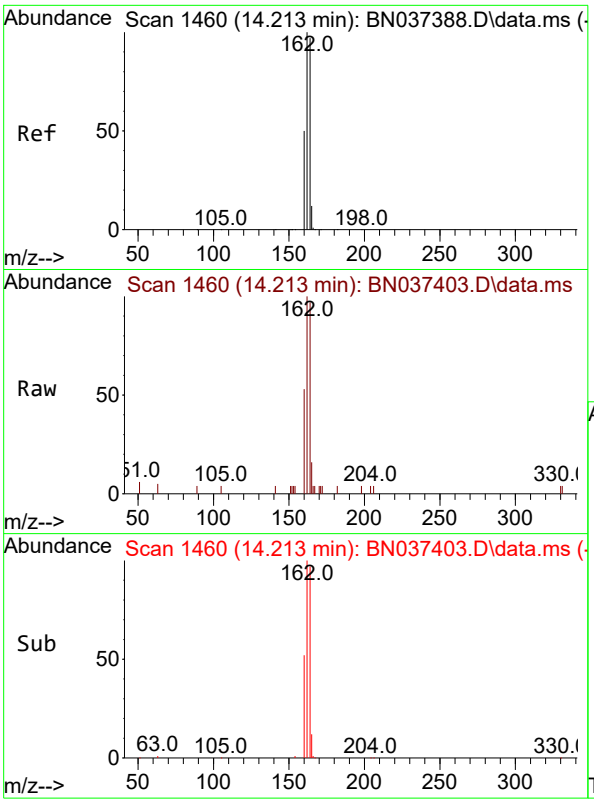


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:142 Resp: 1868

Ion	Ratio	Lower	Upper
142	100		
141	92.5	70.1	105.1
115	47.9	35.8	53.6



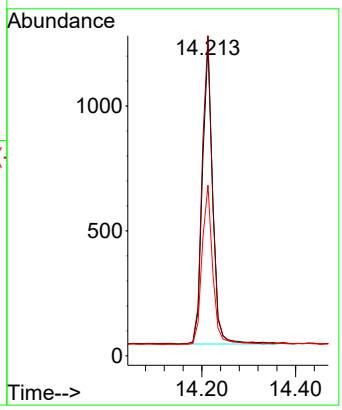


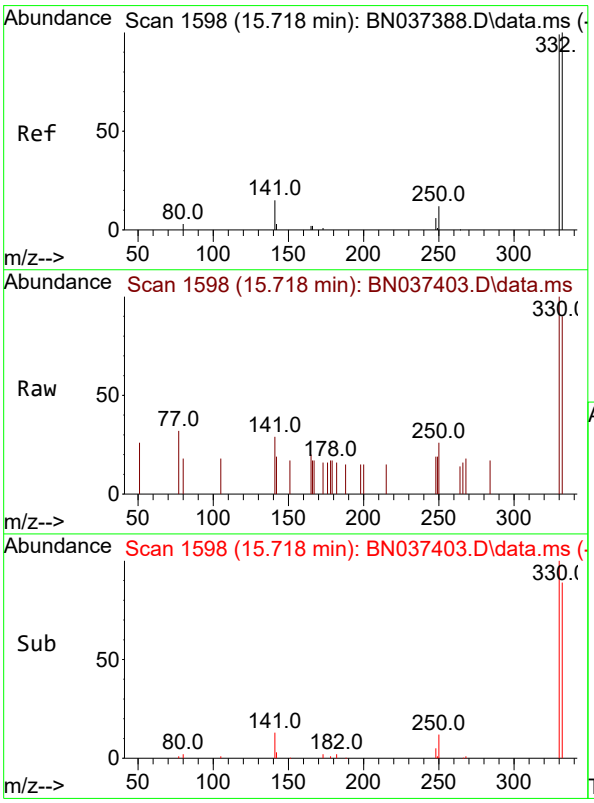
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 1842

Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.6	123.8
160	54.8	42.2	63.2

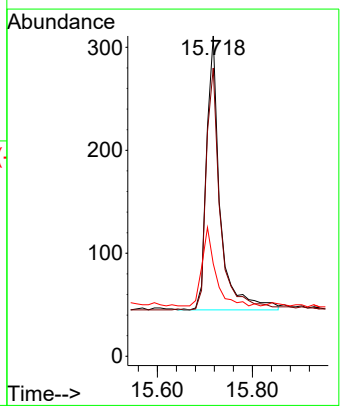


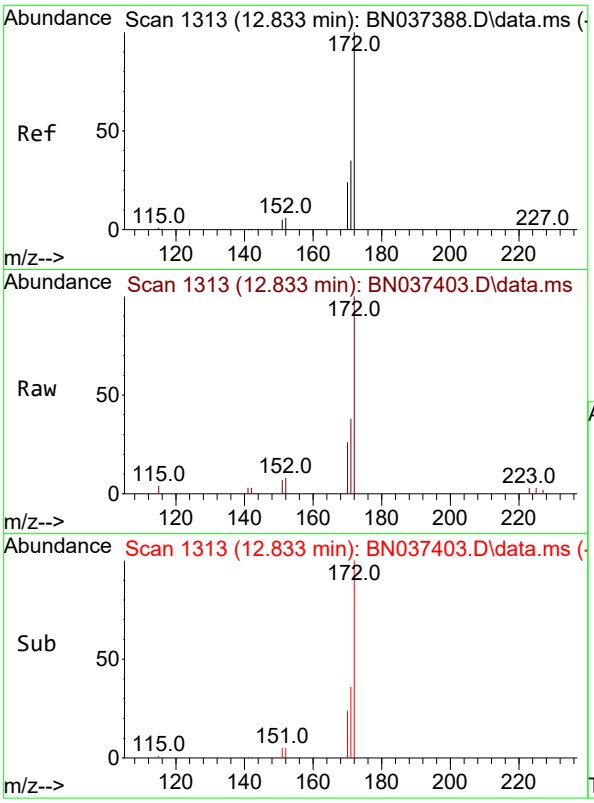


#14
2,4,6-Tribromophenol
Concen: 0.492 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:330 Resp: 532

Ion	Ratio	Lower	Upper
330	100		
332	91.0	77.8	116.8
141	27.8	24.0	36.0



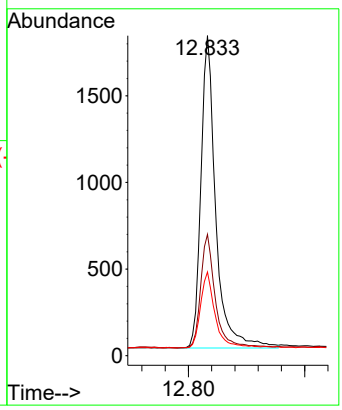


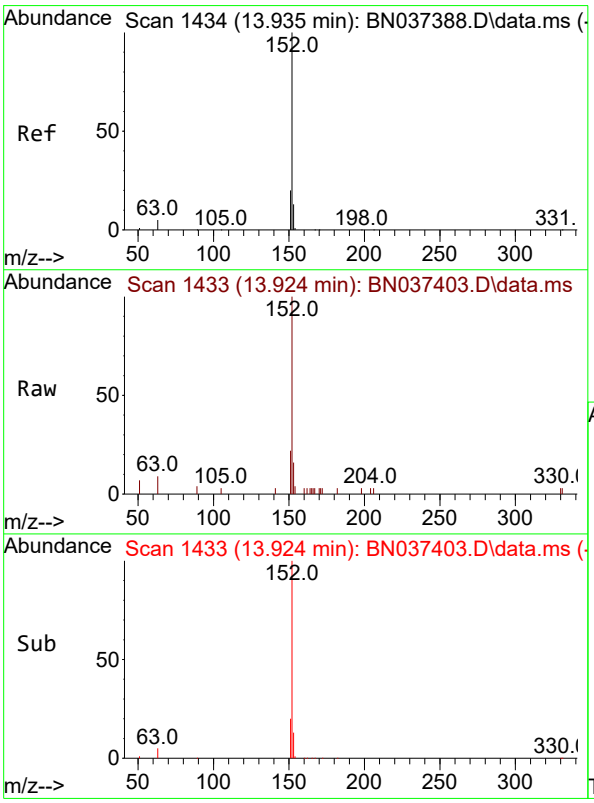
#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 3183

Ion	Ratio	Lower	Upper
172	100		
171	37.9	28.8	43.2
170	26.2	20.3	30.5

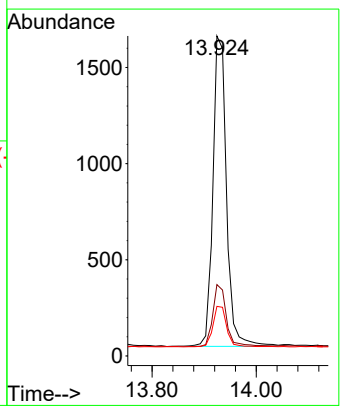


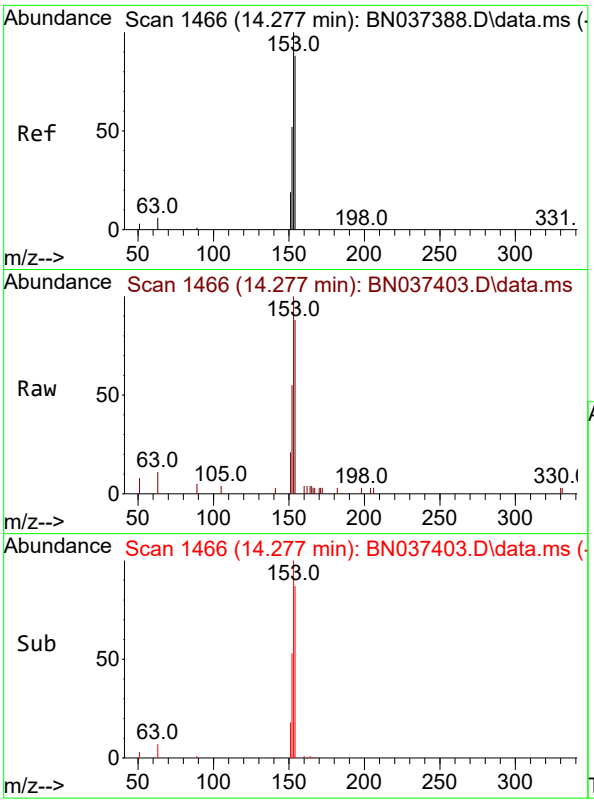


#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:152 Resp: 2920

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.6
153	13.5	10.3	15.5



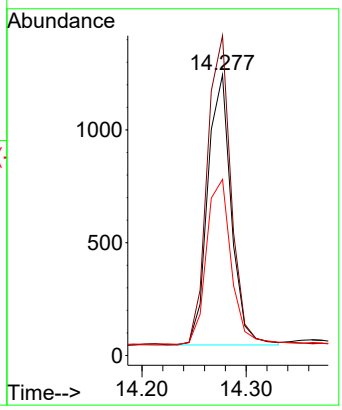


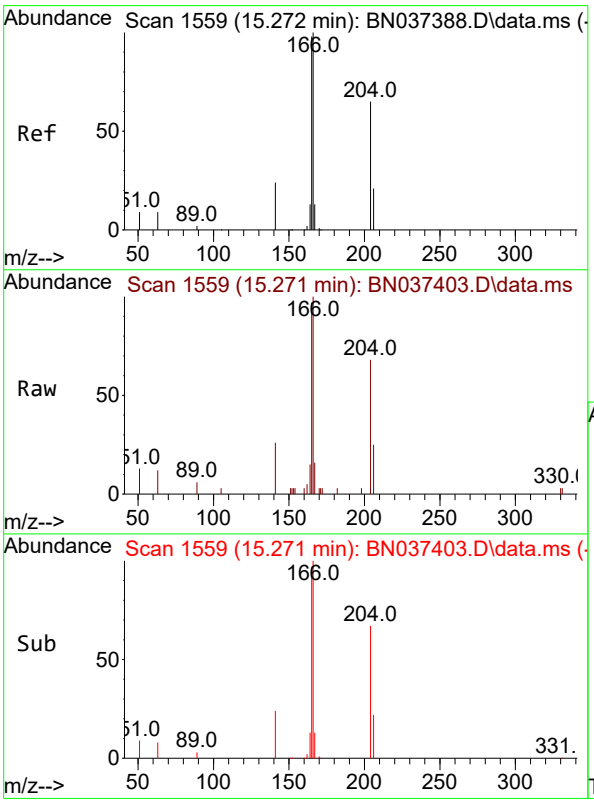
#17
Acenaphthene
Concen: 0.376 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 1878

Ion	Ratio	Lower	Upper
154	100		
153	118.1	94.6	141.8
152	64.9	50.2	75.2

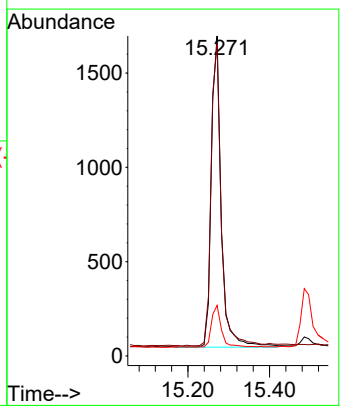


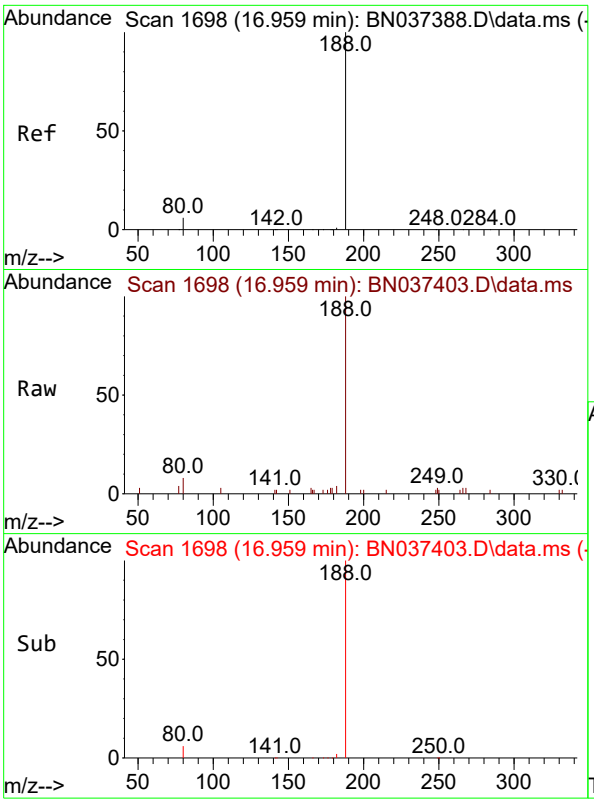


#18
Fluorene
Concen: 0.394 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:166 Resp: 2778

Ion	Ratio	Lower	Upper
166	100		
165	98.1	79.4	119.2
167	13.4	10.6	15.8



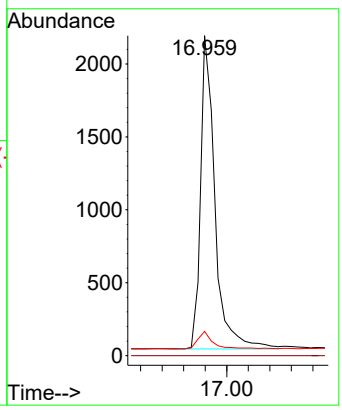


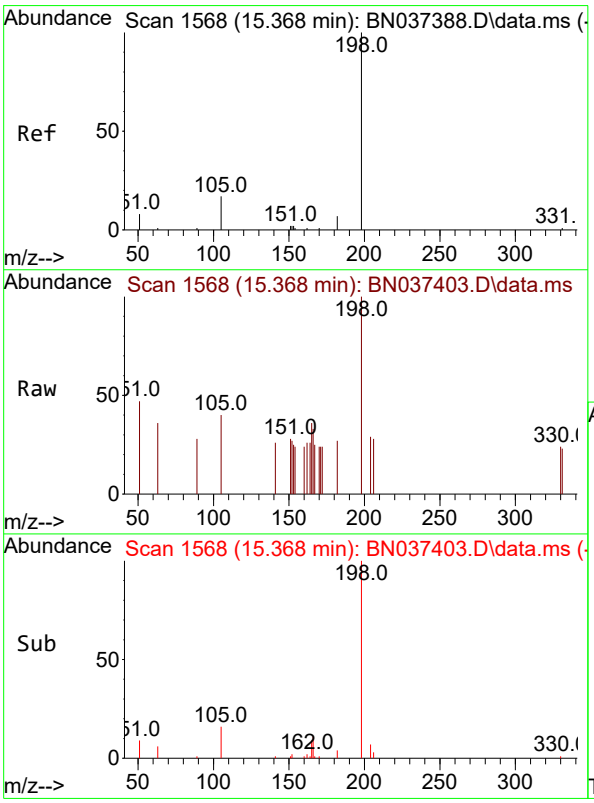
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 3978

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.6	6.2	9.4

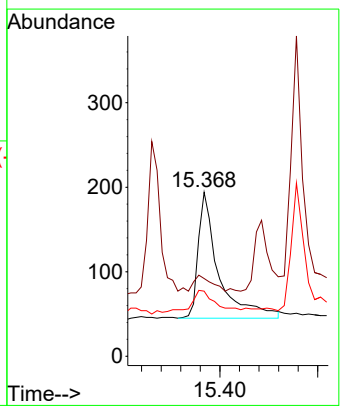


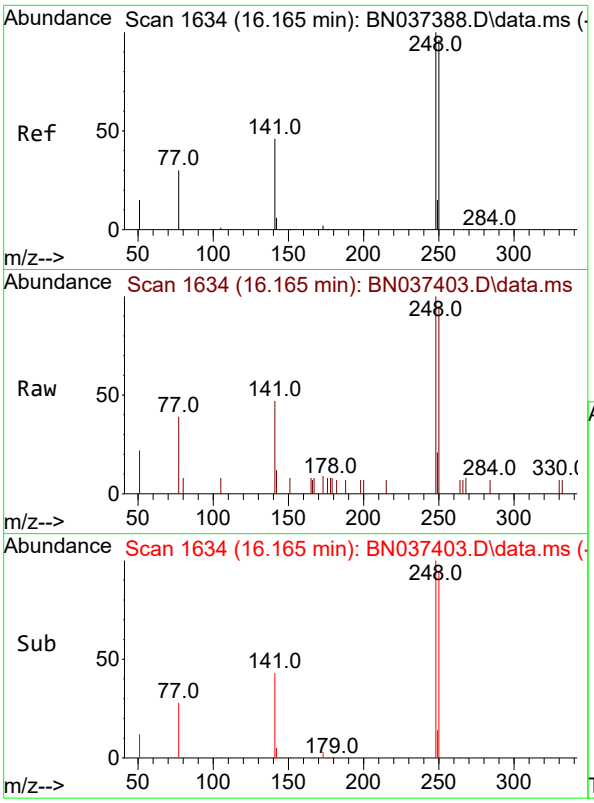


#20
4,6-Dinitro-2-methylphenol
Concen: 0.426 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:198 Resp: 435

Ion	Ratio	Lower	Upper
198	100		
51	47.4	38.8	58.2
105	39.7	29.8	44.6



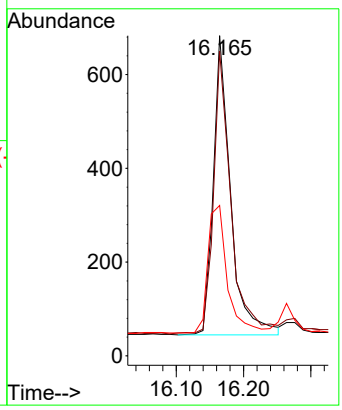


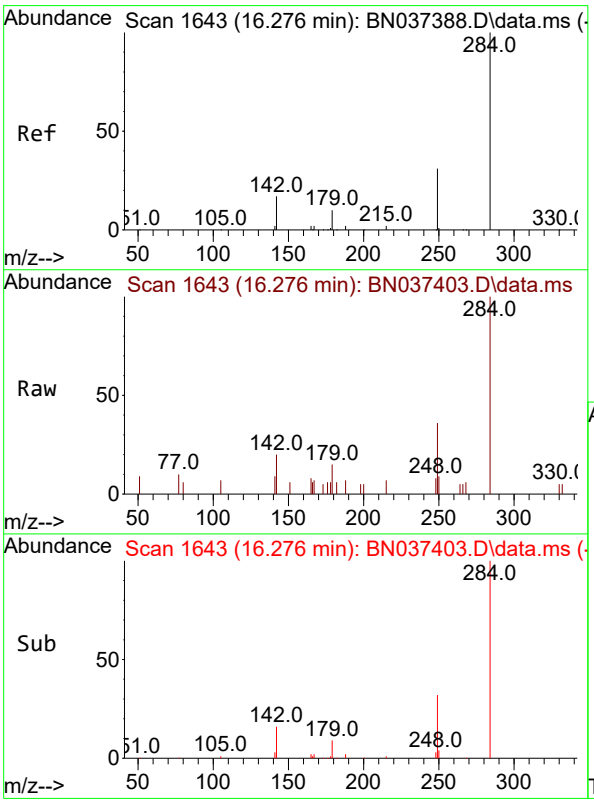
#21
4-Bromophenyl-phenylether
Concen: 0.407 ng
RT: 16.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1143

Ion	Ratio	Lower	Upper
248	100		
250	95.2	77.0	115.4
141	47.0	38.7	58.1

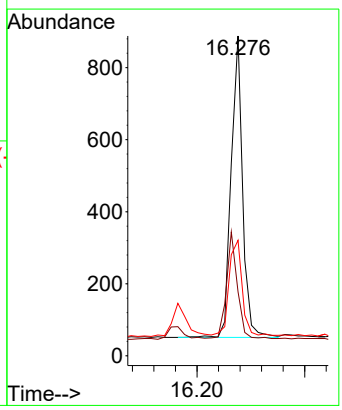


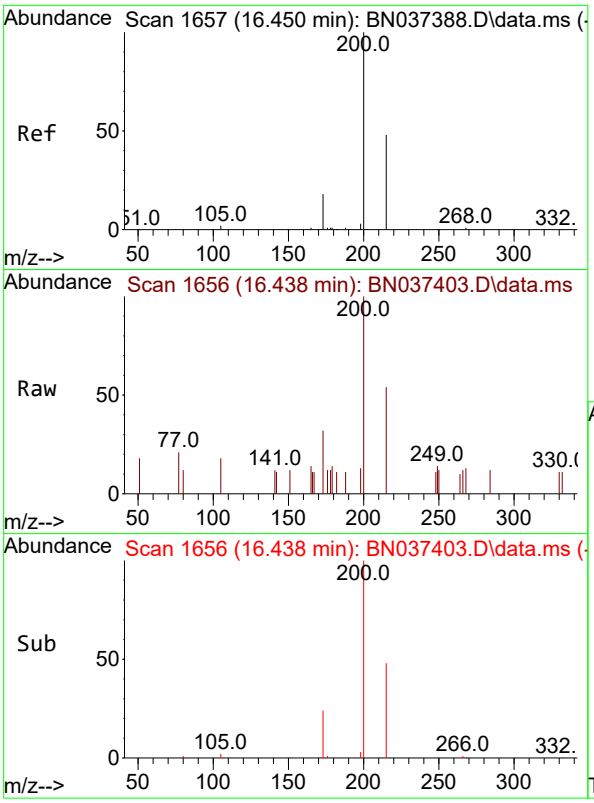


#22
Hexachlorobenzene
Concen: 0.410 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:284 Resp: 1236

Ion	Ratio	Lower	Upper
284	100		
142	33.3	27.2	40.8
249	36.0	26.7	40.1



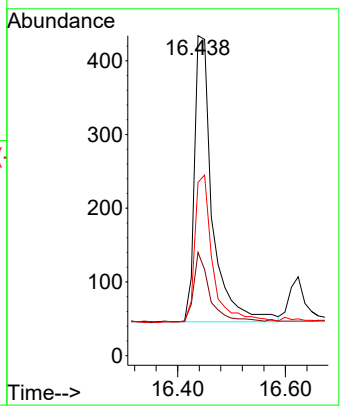


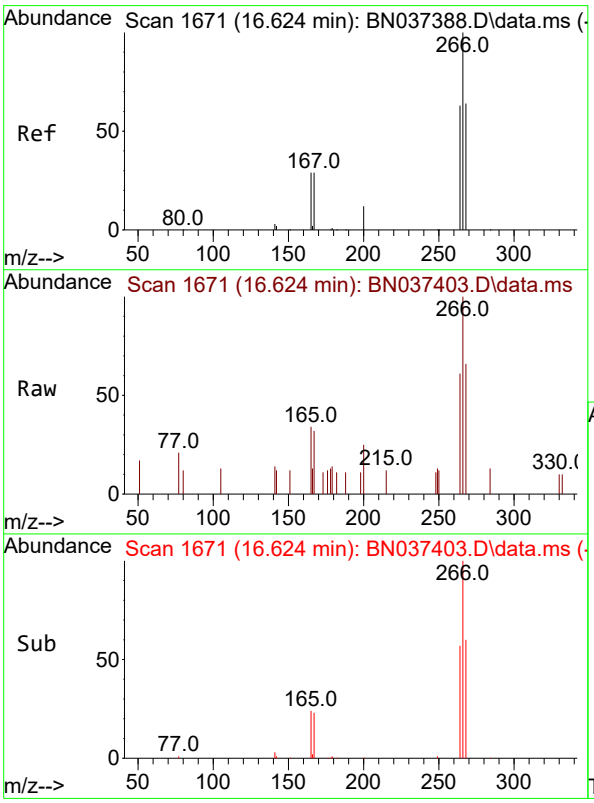
#23
Atrazine
Concen: 0.405 ng
RT: 16.438 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 901

Ion	Ratio	Lower	Upper
200	100		
173	32.3	19.0	28.6#
215	54.1	41.3	61.9

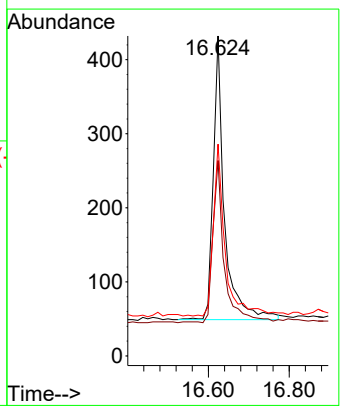


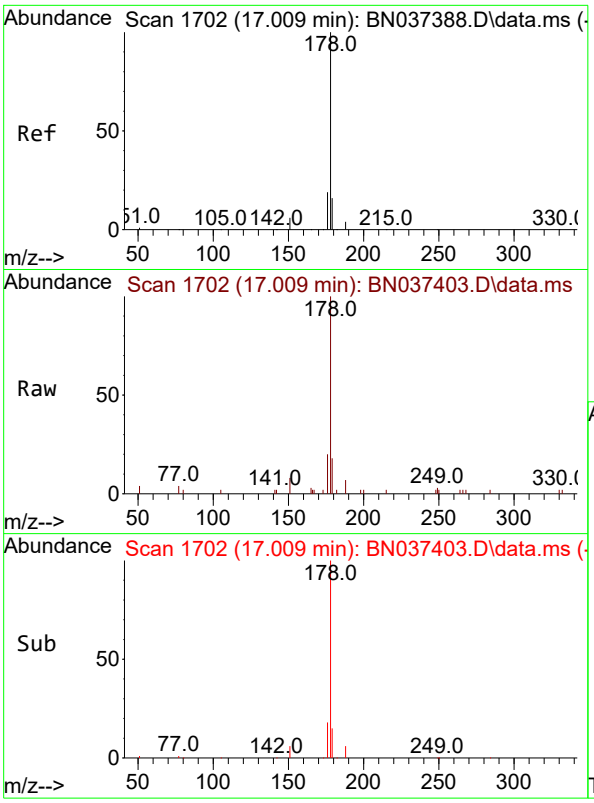


#24
Pentachlorophenol
Concen: 0.452 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:266 Resp: 737

Ion	Ratio	Lower	Upper
266	100		
264	56.2	49.2	73.8
268	64.0	54.2	81.4



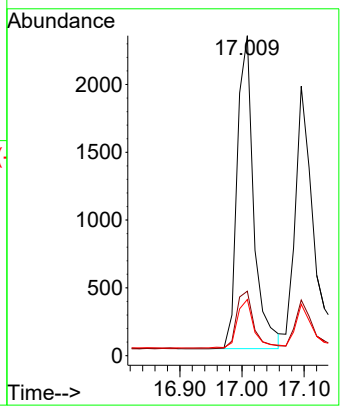


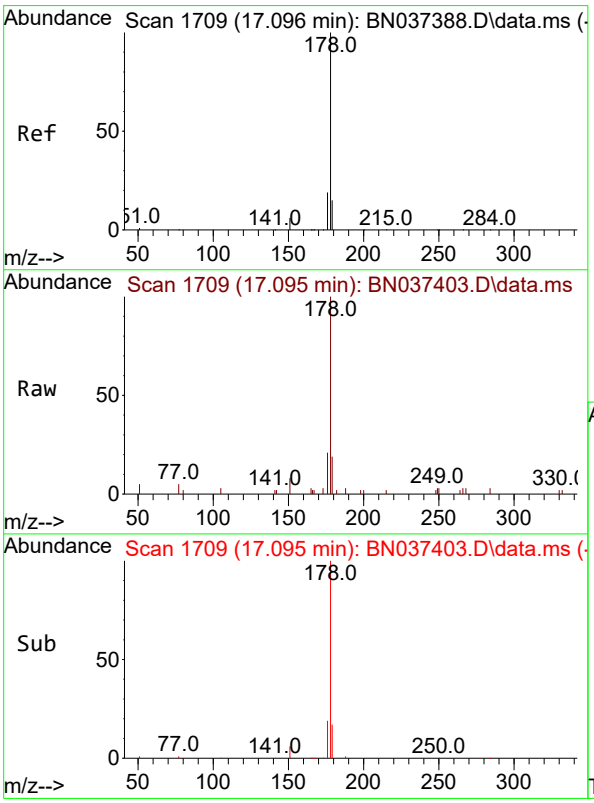
#25
Phenanthrene
Concen: 0.381 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 4265

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.6	23.4
179	15.8	12.8	19.2

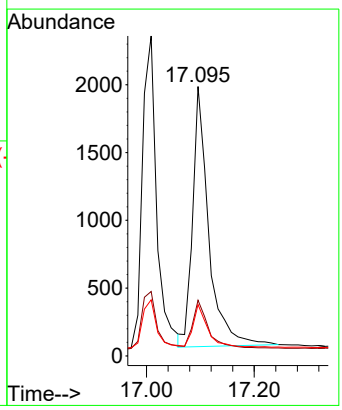


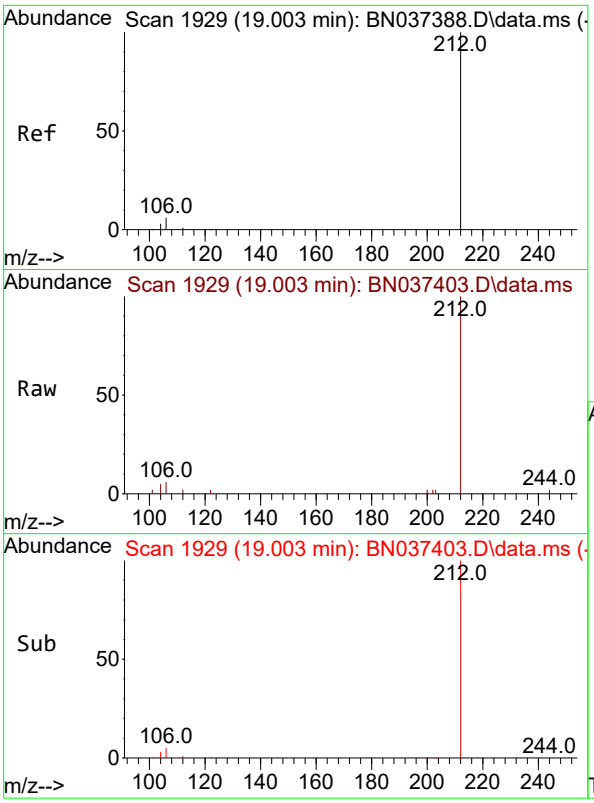


#26
Anthracene
Concen: 0.387 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:178 Resp: 3988

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.9	22.3
179	15.5	12.4	18.6



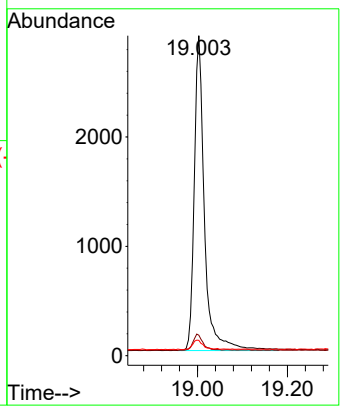


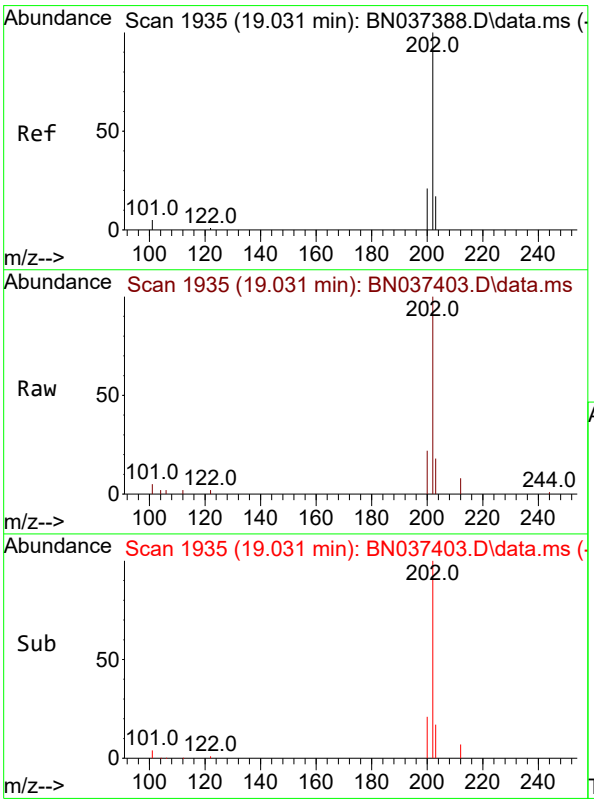
#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 4555

Ion	Ratio	Lower	Upper
212	100		
106	5.1	4.5	6.7
104	3.0	2.7	4.1

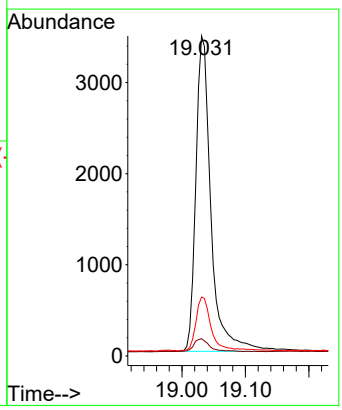


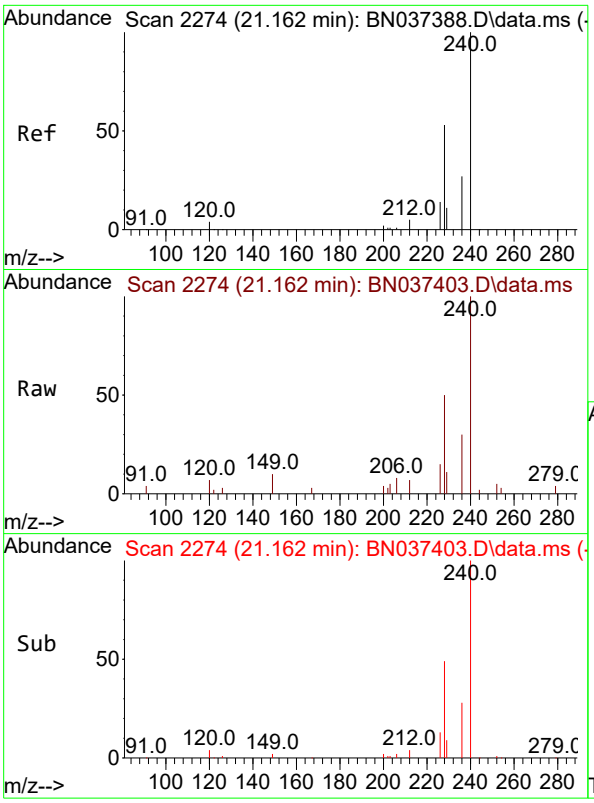


#28
Fluoranthene
Concen: 0.400 ng
RT: 19.031 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:202 Resp: 5729

Ion	Ratio	Lower	Upper
202	100		
101	4.3	3.8	5.6
203	17.4	13.5	20.3



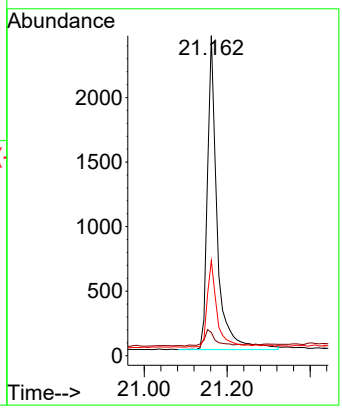


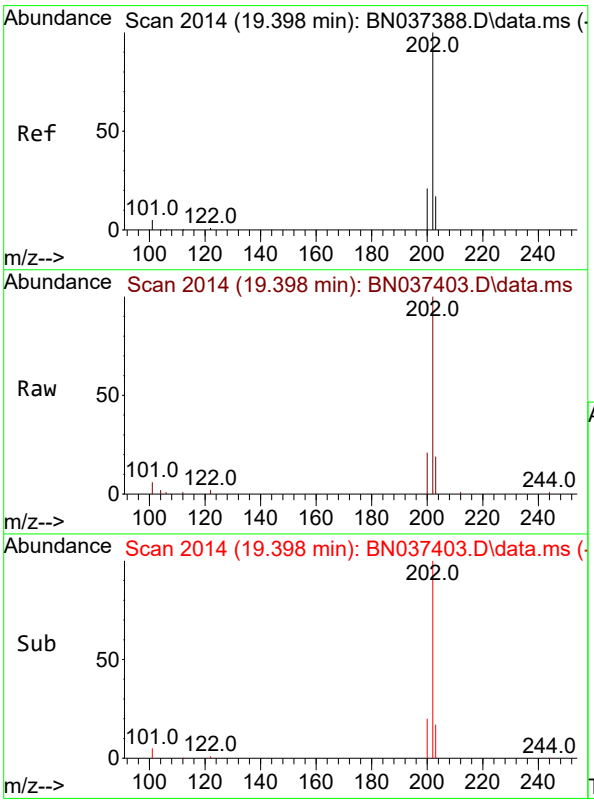
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 3956

Ion	Ratio	Lower	Upper
240	100		
120	7.3	5.3	7.9
236	29.7	22.7	34.1

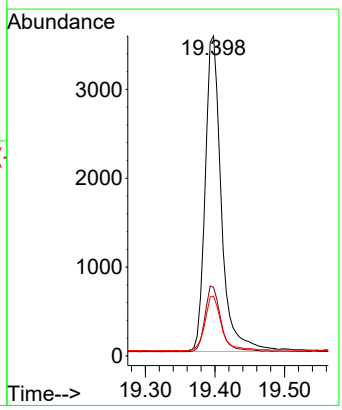


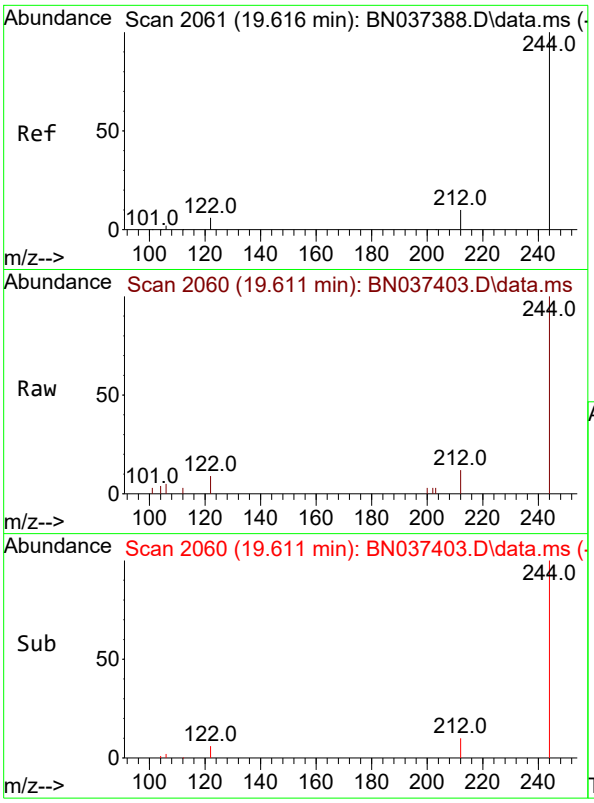


#30
Pyrene
Concen: 0.382 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:202 Resp: 5716

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.5	24.7
203	17.8	14.2	21.2



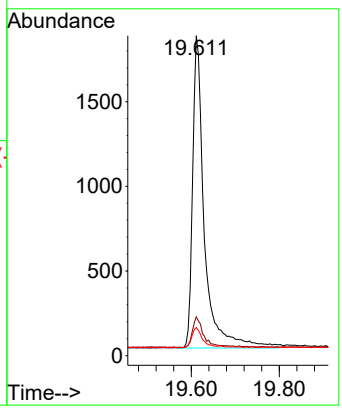


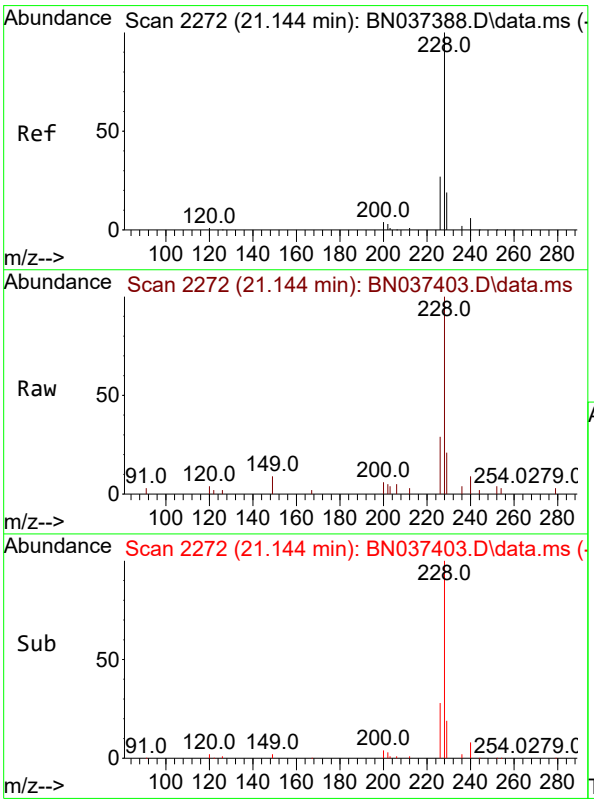
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.611 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 3431

Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.1	13.7
122	8.8	6.3	9.5

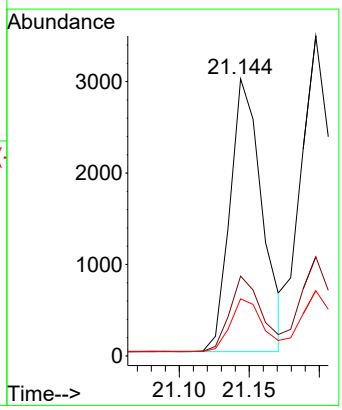


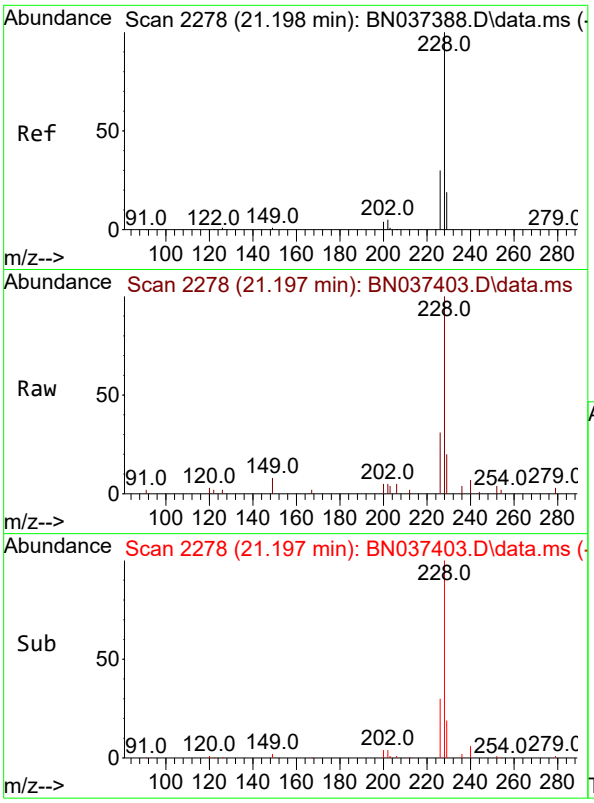


#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:228 Resp: 4770

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	34.0
229	20.6	16.2	24.2



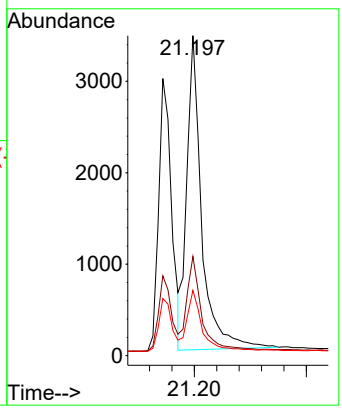


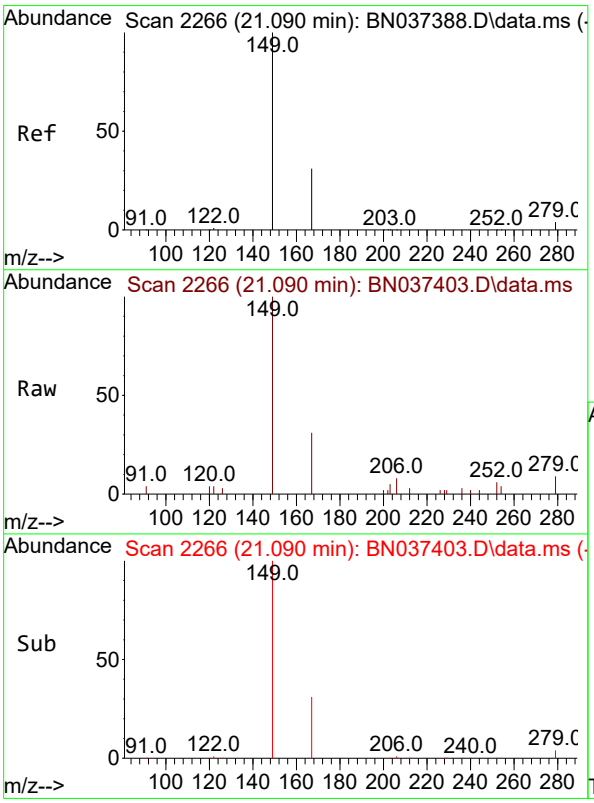
#33
Chrysene
Concen: 0.410 ng
RT: 21.197 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6302

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.5	36.7
229	20.4	16.1	24.1

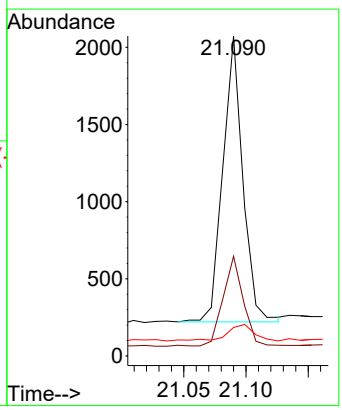


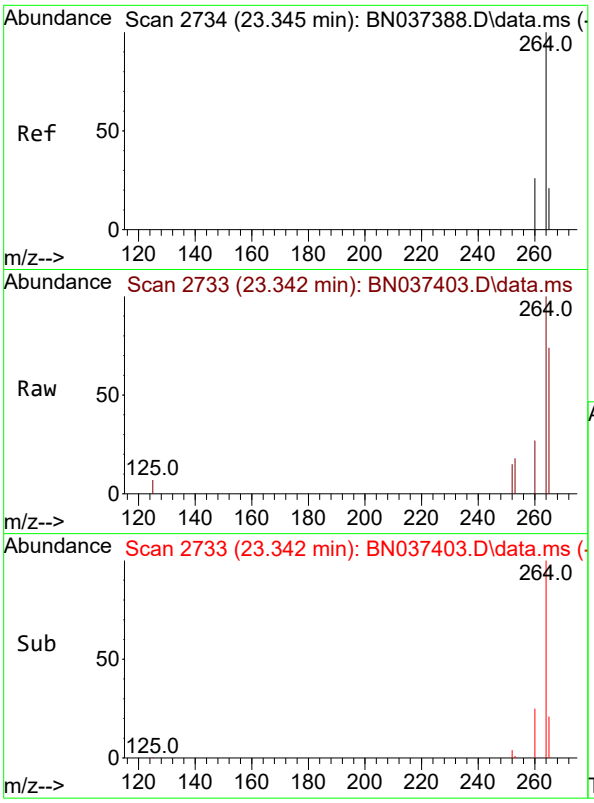


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:149 Resp: 2069

Ion	Ratio	Lower	Upper
149	100		
167	32.0	24.8	37.2
279	7.6	5.0	7.6#



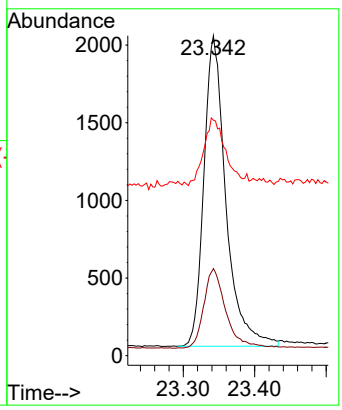


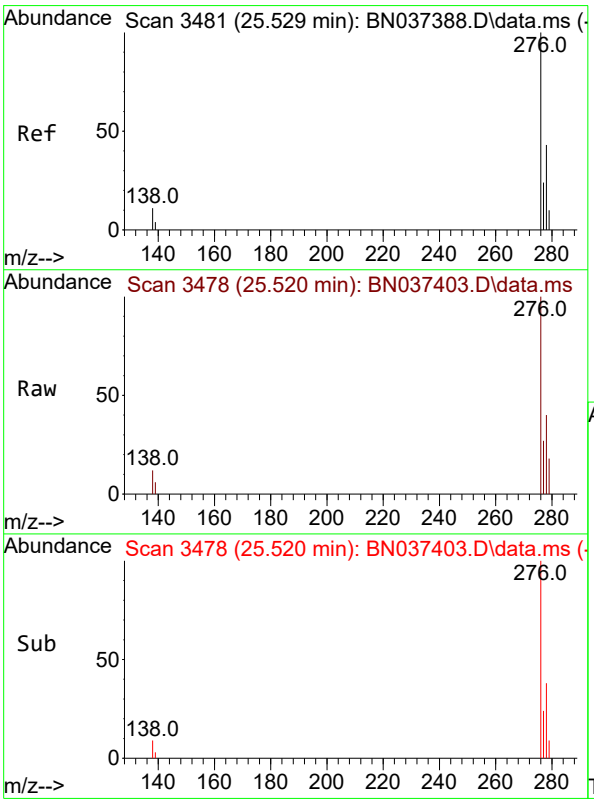
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.342 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 4281

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.0
265	73.6	56.2	84.4

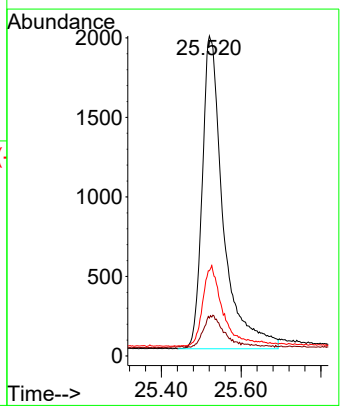


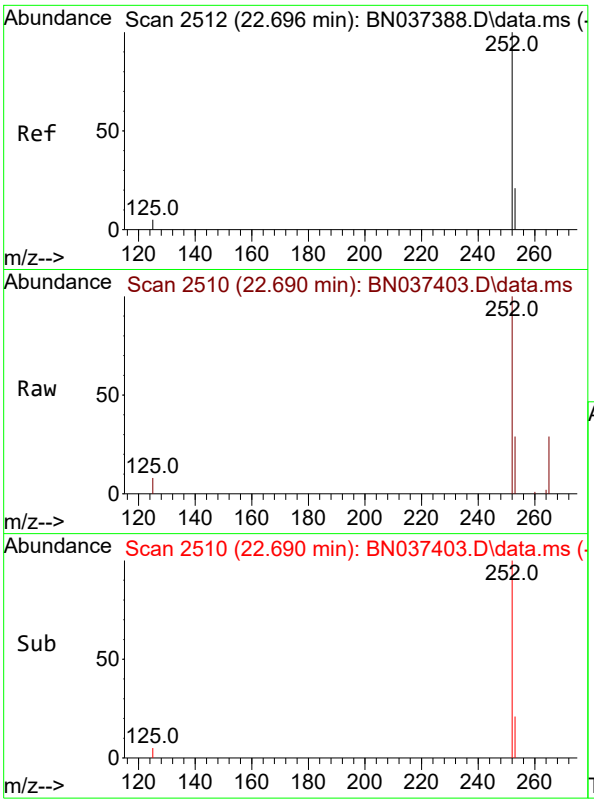


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 25.520 min Scan# 3478
Delta R.T. -0.009 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:276 Resp: 7185

Ion	Ratio	Lower	Upper
276	100		
138	9.6	8.5	12.7
277	23.3	19.7	29.5



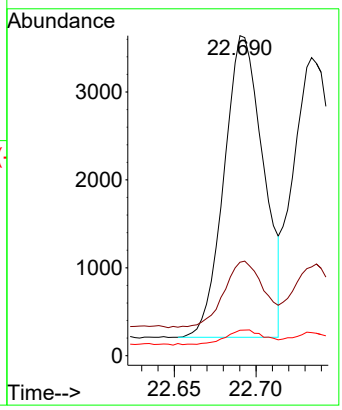


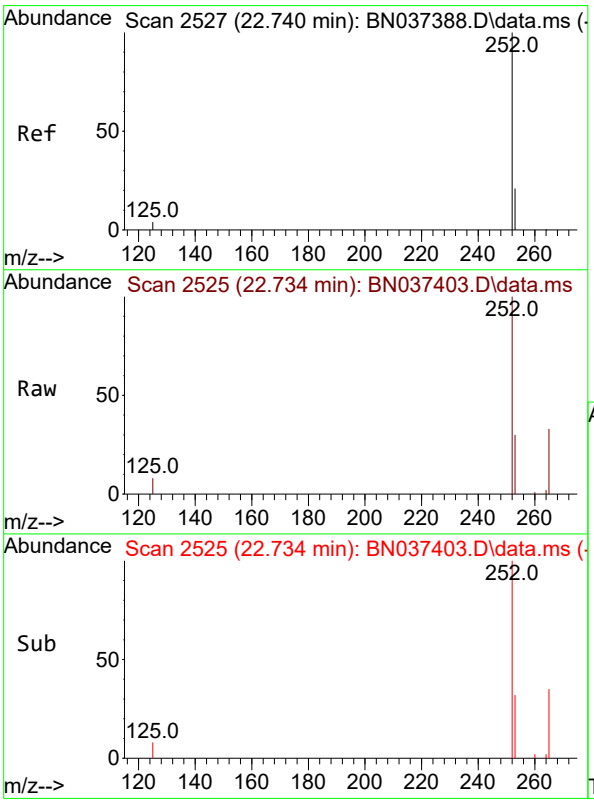
#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 22.690 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5748

Ion	Ratio	Lower	Upper
252	100		
253	29.2	22.8	34.2
125	8.0	6.2	9.4

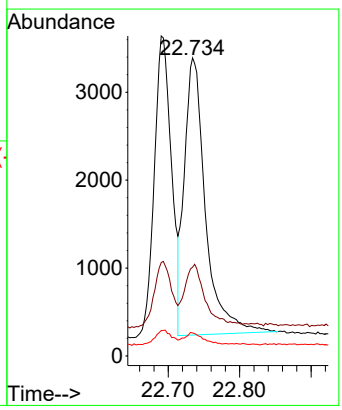


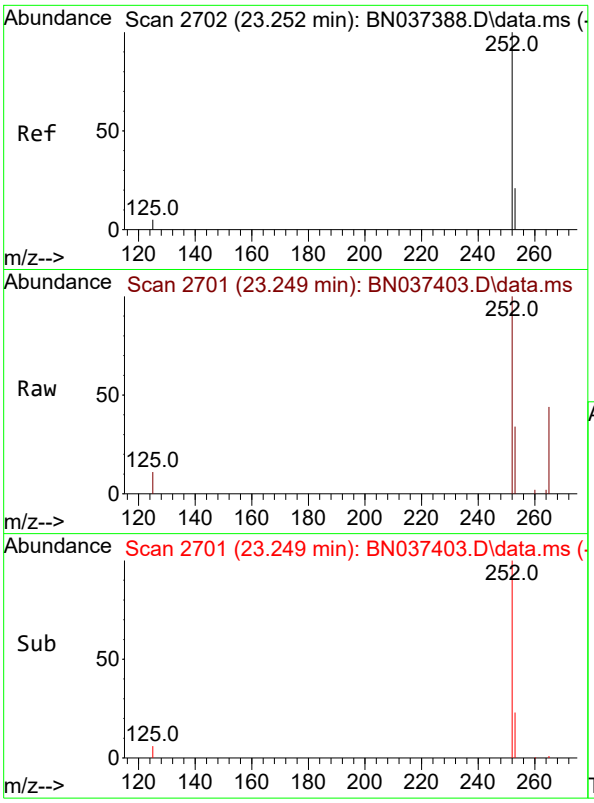


#38
Benzo(k)fluoranthene
Concen: 0.402 ng
RT: 22.734 min Scan# 2525
Delta R.T. -0.006 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:252 Resp: 6484

Ion	Ratio	Lower	Upper
252	100		
253	29.8	23.2	34.8
125	7.7	6.0	9.0



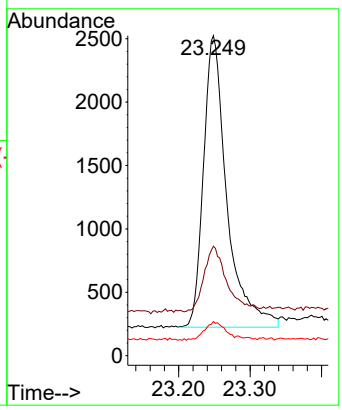


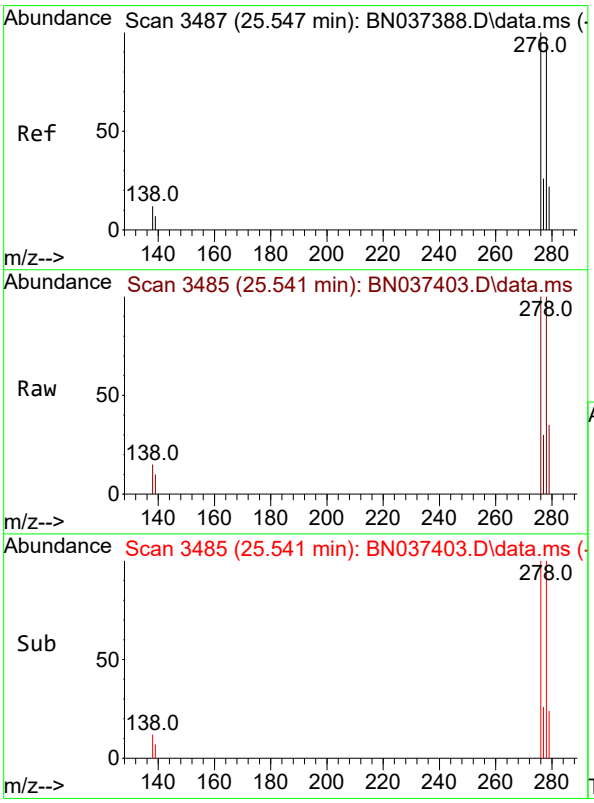
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.249 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5244

Ion	Ratio	Lower	Upper
252	100		
253	34.2	25.6	38.4
125	10.6	7.5	11.3

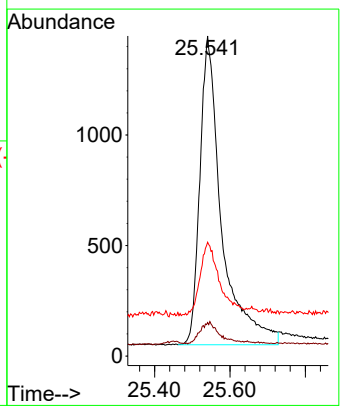


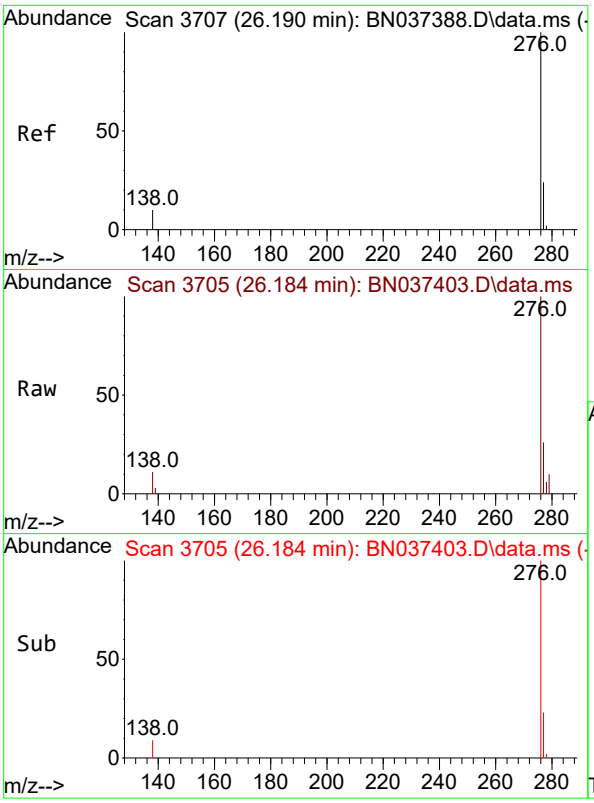


#40
Dibenzo(a,h)anthracene
Concen: 0.403 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.006 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Tgt Ion:278 Resp: 5585

Ion	Ratio	Lower	Upper
278	100		
139	10.5	8.5	12.7
279	35.6	27.5	41.3



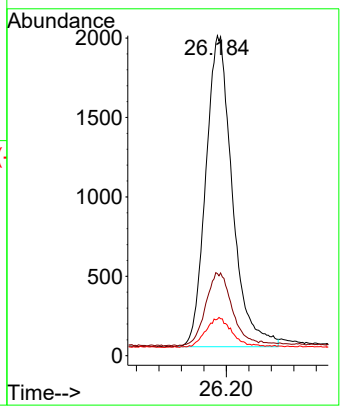


#41
Benzo(g,h,i)perylene
Concen: 0.387 ng
RT: 26.184 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037403.D
Acq: 26 Jun 2025 21:38

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 6411

Ion	Ratio	Lower	Upper
276	100		
277	25.7	21.0	31.4
138	11.4	9.6	14.4



Evaluate Continuing Calibration Report

Sample Results: **BN037403.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037403.D
Acq On : 26 Jun 2025 21:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 03:00:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	59	0.00
2		1,4-Dioxane	0.379	0.373	1.6	60	0.00
3		n-Nitrosodimethylamine	0.375	0.374	0.3	59	0.00
4	S	2-Fluorophenol	0.771	0.749	2.9	55	0.00
5	S	Phenol-d6	0.799	0.782	2.1	57	0.00
6		bis(2-Chloroethyl)ether	0.711	0.661	7.0	54	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	60	0.00
8	S	Nitrobenzene-d5	0.321	0.301	6.2	58	0.00
9		Naphthalene	1.030	1.007	2.2	61	-0.01
10		Hexachlorobutadiene	0.409	0.453	-10.8	66	0.00
11	SURR	2-Methylnaphthalene-d10	0.619	0.590	4.7	62	0.00
12		2-Methylnaphthalene	0.709	0.682	3.8	60	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	60	0.00
14	S	2,4,6-Tribromophenol	0.235	0.289	-23.0	73	0.00
15	S	2-Fluorobiphenyl	1.727	1.728	-0.1	61	0.00
16		Acenaphthylene	1.659	1.585	4.5	61	-0.01
17		Acenaphthene	1.083	1.020	5.8	59	0.00
18		Fluorene	1.530	1.508	1.4	62	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	63	0.00
20		4,6-Dinitro-2-methylphenol	0.103	0.109	-5.8	81	0.00
21		4-Bromophenyl-phenylether	0.282	0.287	-1.8	67	0.00
22		Hexachlorobenzene	0.303	0.311	-2.6	65	0.00
23		Atrazine	0.224	0.226	-0.9	67	-0.01
24		Pentachlorophenol	0.164	0.185	-12.8	76	0.00
25		Phenanthrene	1.127	1.072	4.9	63	0.00
26		Anthracene	1.036	1.003	3.2	66	0.00
27	SURR	Fluoranthene-d10	1.146	1.145	0.1	68	0.00
28		Fluoranthene	1.439	1.440	-0.1	67	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	70	0.00
30		Pyrene	1.514	1.445	4.6	66	0.00
31	S	Terphenyl-d14	0.853	0.867	-1.6	70	0.00
32		Benzo(a)anthracene	1.257	1.206	4.1	73	0.00
33		Chrysene	1.556	1.593	-2.4	71	0.00
34		Bis(2-ethylhexyl)phthalate	0.498	0.523	-5.0	73	0.00
35	I	Perylene-d12	1.000	1.000	0.0	72	0.00
36		Indeno(1,2,3-cd)pyrene	1.686	1.678	0.5	77	0.00
37		Benzo(b)fluoranthene	1.410	1.343	4.8	73	0.00
38		Benzo(k)fluoranthene	1.507	1.515	-0.5	75	0.00
39	C	Benzo(a)pyrene	1.254	1.225	2.3	75	0.00
40		Dibenzo(a,h)anthracene	1.296	1.305	-0.7	78	0.00
41		Benzo(g,h,i)perylene	1.548	1.498	3.2	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Sample Results: **BN037403.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037403.D
Acq On : 26 Jun 2025 21:38
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 03:00:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	59	0.00
2		1,4-Dioxane	0.400	0.393	1.8	60	0.00
3		n-Nitrosodimethylamine	0.400	0.400	0.0	59	0.00
4	S	2-Fluorophenol	0.400	0.389	2.8	55	0.00
5	S	Phenol-d6	0.400	0.391	2.3	57	0.00
6		bis(2-Chloroethyl)ether	0.400	0.372	7.0	54	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	60	0.00
8	S	Nitrobenzene-d5	0.400	0.375	6.3	58	0.00
9		Naphthalene	0.400	0.391	2.3	61	-0.01
10		Hexachlorobutadiene	0.400	0.443	-10.7	66	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.382	4.5	62	0.00
12		2-Methylnaphthalene	0.400	0.385	3.8	60	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	60	0.00
14	S	2,4,6-Tribromophenol	0.400	0.492	-23.0	73	0.00
15	S	2-Fluorobiphenyl	0.400	0.400	0.0	61	0.00
16		Acenaphthylene	0.400	0.382	4.5	61	-0.01
17		Acenaphthene	0.400	0.376	6.0	59	0.00
18		Fluorene	0.400	0.394	1.5	62	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	63	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.426	-6.5	81	0.00
21		4-Bromophenyl-phenylether	0.400	0.407	-1.7	67	0.00
22		Hexachlorobenzene	0.400	0.410	-2.5	65	0.00
23		Atrazine	0.400	0.405	-1.3	67	-0.01
24		Pentachlorophenol	0.400	0.452	-13.0	76	0.00
25		Phenanthrene	0.400	0.381	4.8	63	0.00
26		Anthracene	0.400	0.387	3.3	66	0.00
27	SURR	Fluoranthene-d10	0.400	0.400	0.0	68	0.00
28		Fluoranthene	0.400	0.400	0.0	67	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	70	0.00
30		Pyrene	0.400	0.382	4.5	66	0.00
31	S	Terphenyl-d14	0.400	0.407	-1.7	70	0.00
32		Benzo(a)anthracene	0.400	0.384	4.0	73	0.00
33		Chrysene	0.400	0.410	-2.5	71	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.420	-5.0	73	0.00
35	I	Perylene-d12	0.400	0.400	0.0	72	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.398	0.5	77	0.00
37		Benzo(b)fluoranthene	0.400	0.381	4.8	73	0.00
38		Benzo(k)fluoranthene	0.400	0.402	-0.5	75	0.00
39	C	Benzo(a)pyrene	0.400	0.391	2.3	75	0.00
40		Dibenzo(a,h)anthracene	0.400	0.403	-0.8	78	0.00
41		Benzo(g,h,i)perylene	0.400	0.387	3.3	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2375 SAS No.: Q2375 SDG No.: Q2375

Instrument ID: BNA_N Calibration Date/Time: 06/27/2025 04:54

Lab File ID: BN037415.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.582		-6.0	50.0
Fluoranthene-d10	1.146	1.097		-4.3	50.0
2-Fluorophenol	0.771	0.782		1.4	50.0
Phenol-d6	0.799	0.787		-1.5	50.0
Nitrobenzene-d5	0.321	0.289		-10.0	50.0
2-Fluorobiphenyl	1.727	1.699		-1.6	50.0
2,4,6-Tribromophenol	0.235	0.235		0.0	50.0
Terphenyl-d14	0.853	0.849		-0.5	50.0
1,4-Dioxane	0.379	0.394		4.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037415.D
Acq On : 27 Jun 2025 04:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 27 05:26:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

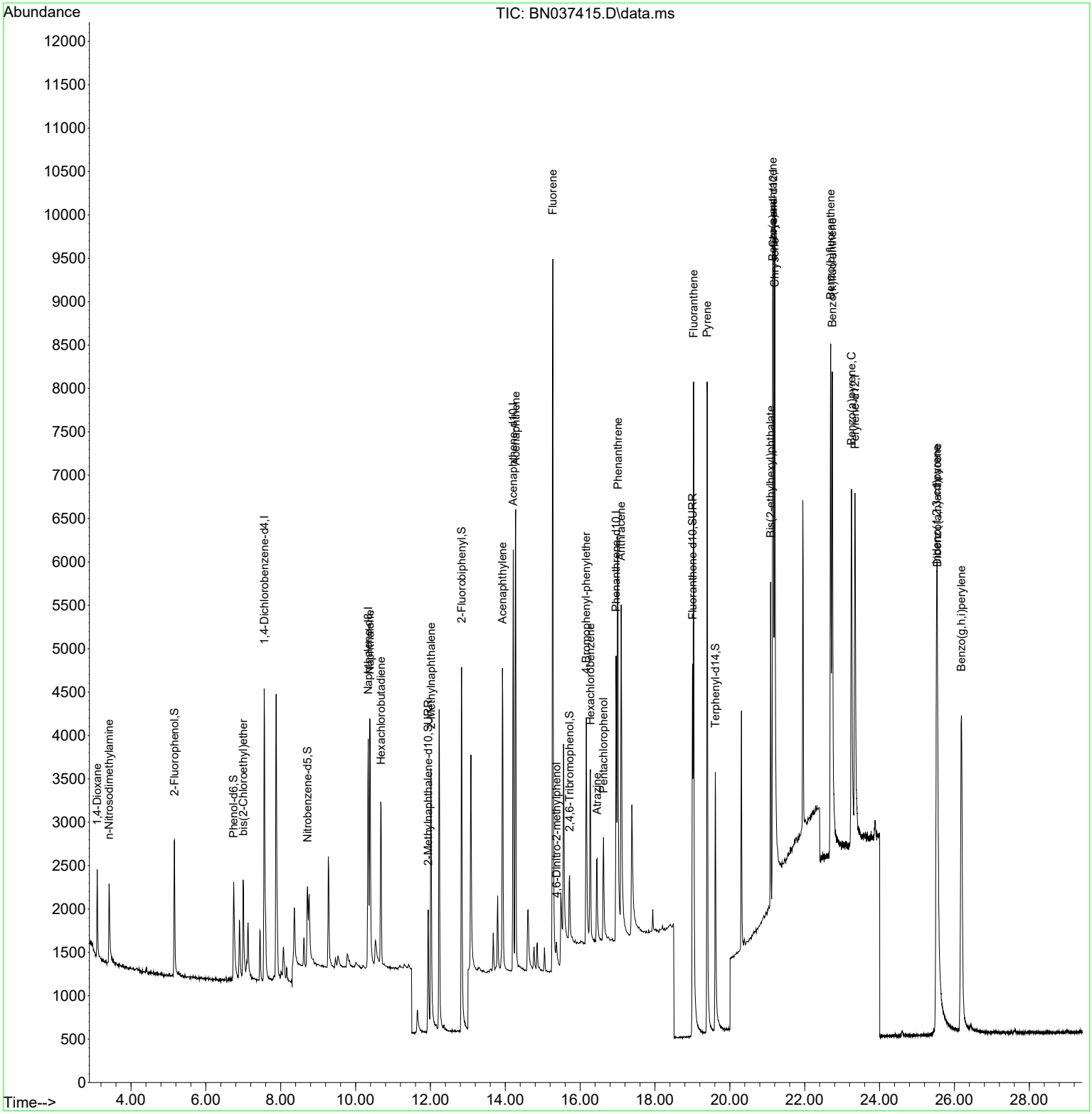
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.560	152	1911	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4152	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	2803	0.400	ng		0.00
19) Phenanthrene-d10	16.959	188	5832	0.400	ng		0.00
29) Chrysene-d12	21.162	240	5618	0.400	ng		0.00
35) Perylene-d12	23.342	264	5931	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1495	0.406	ng		0.00
5) Phenol-d6	6.744	99	1504	0.394	ng		0.00
8) Nitrobenzene-d5	8.717	82	1198	0.360	ng		0.00
11) 2-Methylnaphthalene-d10	11.940	152	2415	0.376	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	658	0.400	ng		0.00
15) 2-Fluorobiphenyl	12.833	172	4761	0.393	ng		0.00
27) Fluoranthene-d10	19.003	212	6400	0.383	ng		0.00
31) Terphenyl-d14	19.611	244	4769	0.398	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.097	88	752	0.415	ng		92
3) n-Nitrosodimethylamine	3.415	42	652	0.364	ng		83
6) bis(2-Chloroethyl)ether	6.997	93	1118	0.329	ng		90
9) Naphthalene	10.383	128	4123	0.386	ng		98
10) Hexachlorobutadiene	10.682	225	1736	0.409	ng	#	97
12) 2-Methylnaphthalene	12.016	142	2789	0.379	ng		99
16) Acenaphthylene	13.924	152	4361	0.375	ng		98
17) Acenaphthene	14.277	154	2865	0.377	ng		99
18) Fluorene	15.271	166	4105	0.383	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	405	0.270	ng	#	83
21) 4-Bromophenyl-phenylether	16.164	248	1533	0.373	ng		98
22) Hexachlorobenzene	16.276	284	1783	0.403	ng		98
23) Atrazine	16.450	200	1260	0.387	ng		98
24) Pentachlorophenol	16.624	266	828	0.347	ng		98
25) Phenanthrene	17.008	178	6159	0.375	ng		99
26) Anthracene	17.095	178	5663	0.375	ng		99
28) Fluoranthene	19.031	202	8012	0.382	ng		100
30) Pyrene	19.393	202	8391	0.395	ng		100
32) Benzo(a)anthracene	21.144	228	6423	0.364	ng		99
33) Chrysene	21.197	228	9016	0.413	ng		100
34) Bis(2-ethylhexyl)phtha...	21.090	149	2930	0.419	ng		98
36) Indeno(1,2,3-cd)pyrene	25.523	276	9870	0.395	ng		97
37) Benzo(b)fluoranthene	22.693	252	7809	0.373	ng		98
38) Benzo(k)fluoranthene	22.737	252	8852	0.396	ng		97
39) Benzo(a)pyrene	23.249	252	7434	0.400	ng	#	96
40) Dibenzo(a,h)anthracene	25.544	278	7351	0.383	ng		99
41) Benzo(g,h,i)perylene	26.184	276	8948	0.390	ng		99

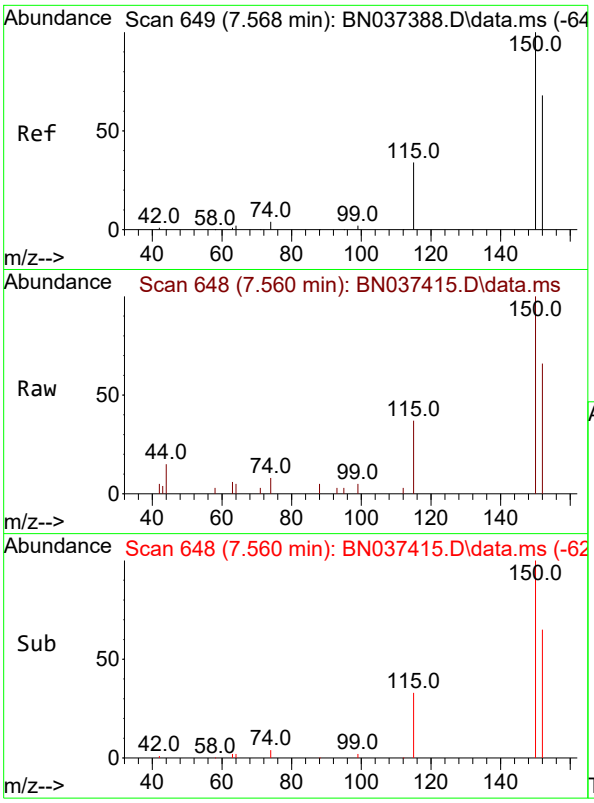
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037415.D
Acq On : 27 Jun 2025 04:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 27 05:26:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



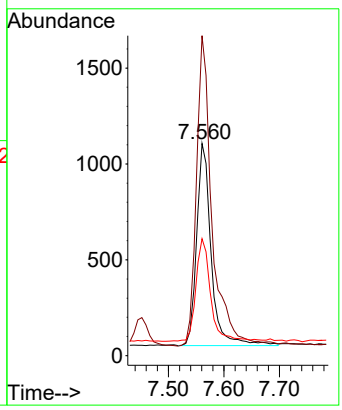


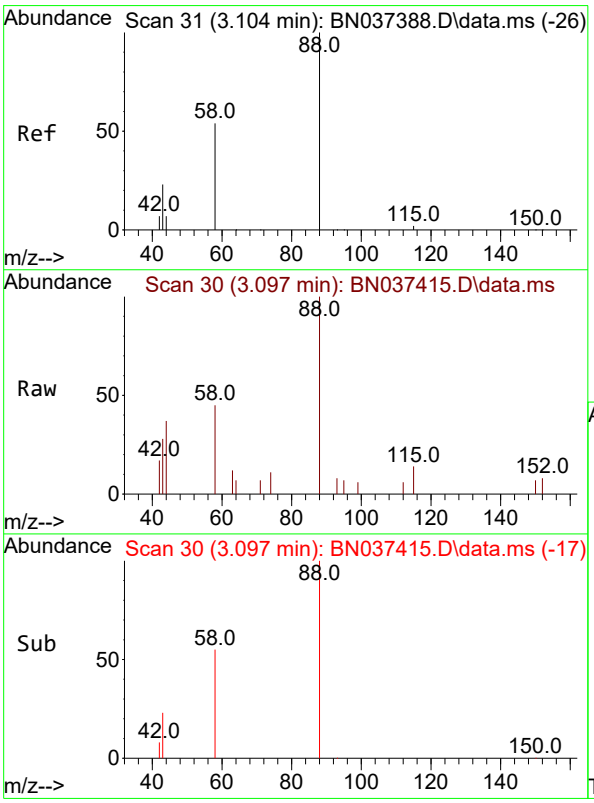
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1911

Ion	Ratio	Lower	Upper
152	100		
150	150.8	116.2	174.2
115	55.1	42.9	64.3

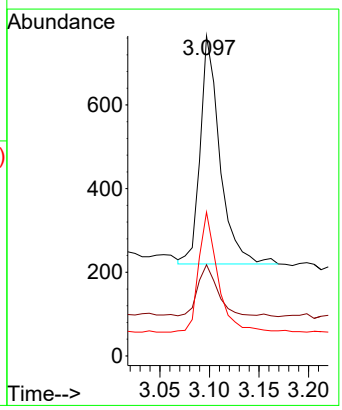


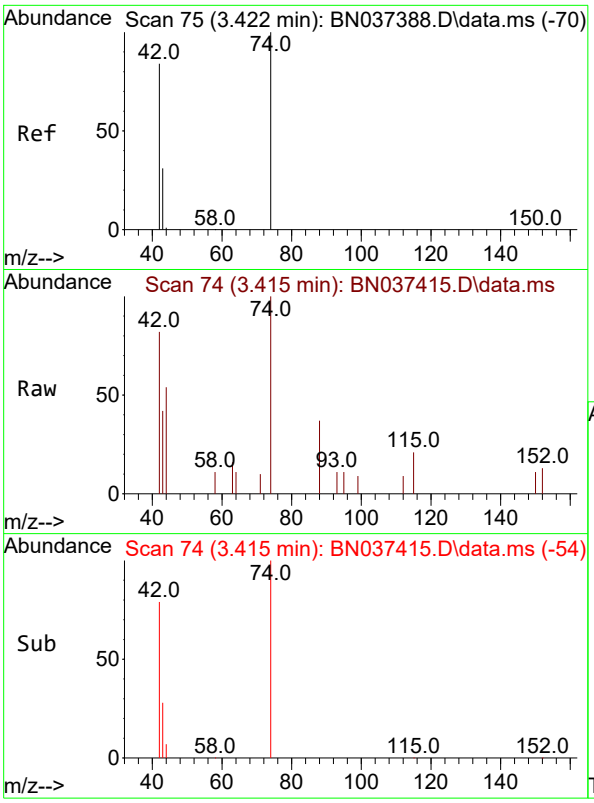


#2
1,4-Dioxane
Concen: 0.415 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion: 88 Resp: 752

Ion	Ratio	Lower	Upper
88	100		
43	23.9	21.6	32.4
58	51.1	45.9	68.9



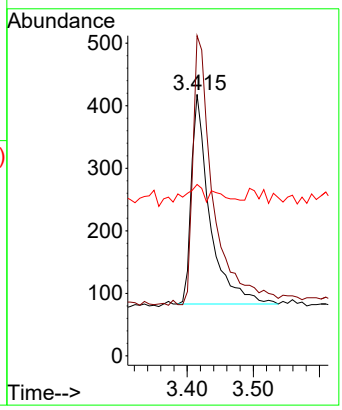


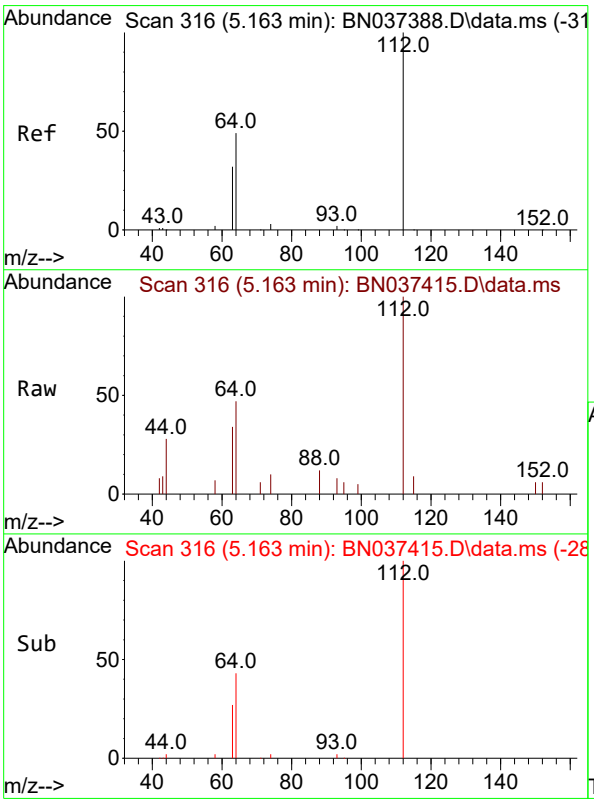
#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 652

Ion	Ratio	Lower	Upper
42	100		
74	142.6	97.8	146.8
44	9.2	8.7	13.1

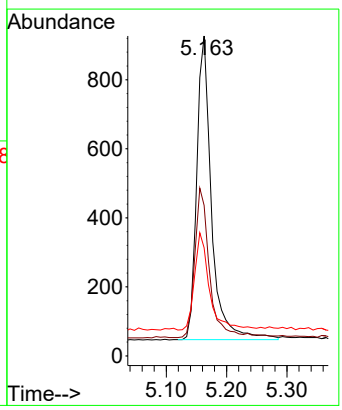


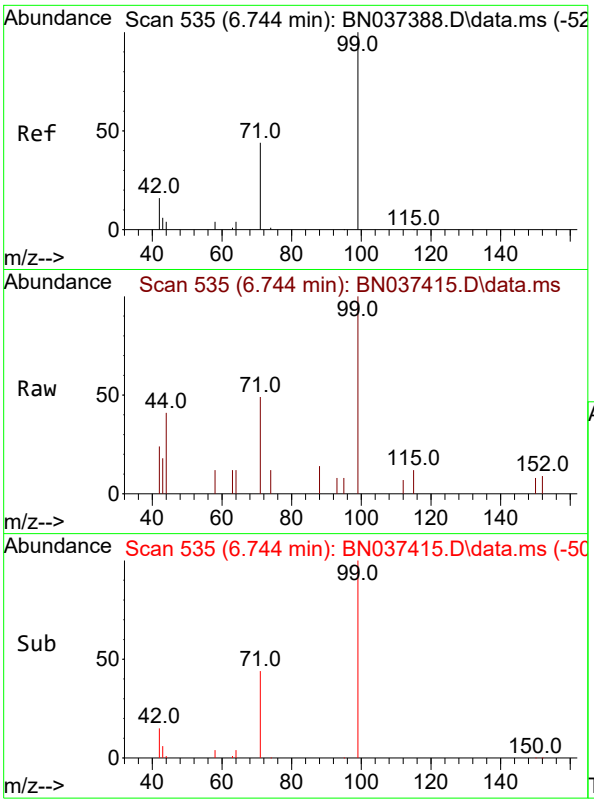


#4
2-Fluorophenol
Concen: 0.406 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:112 Resp: 1495

Ion	Ratio	Lower	Upper
112	100		
64	49.6	40.3	60.5
63	32.4	26.1	39.1



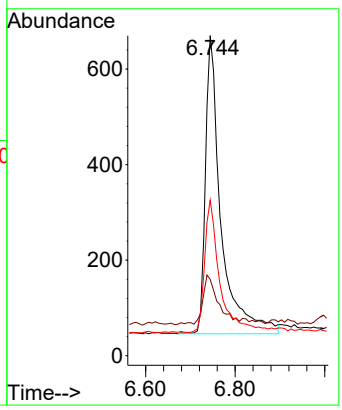


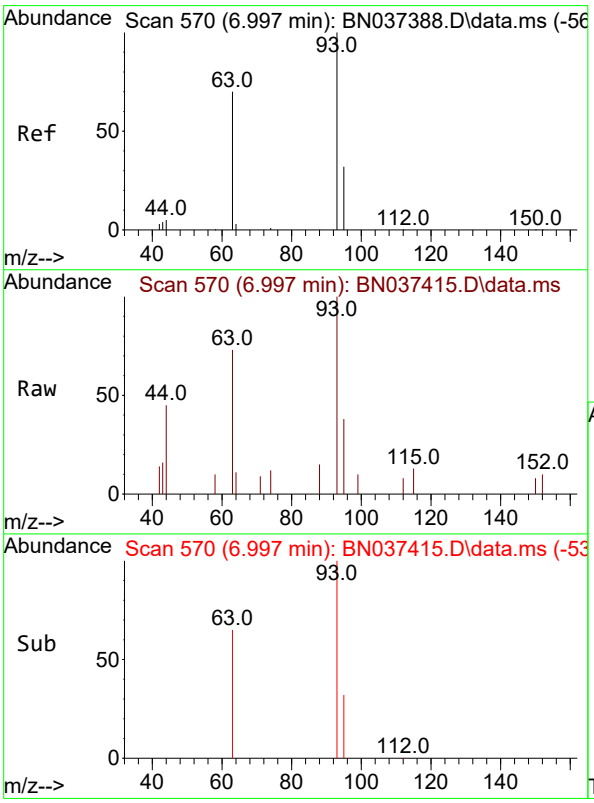
#5
Phenol-d6
Concen: 0.394 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1504

Ion	Ratio	Lower	Upper
99	100		
42	16.6	15.6	23.4
71	43.2	35.8	53.8

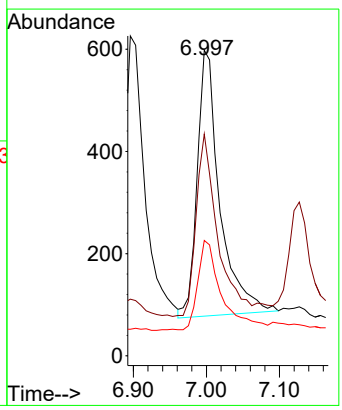


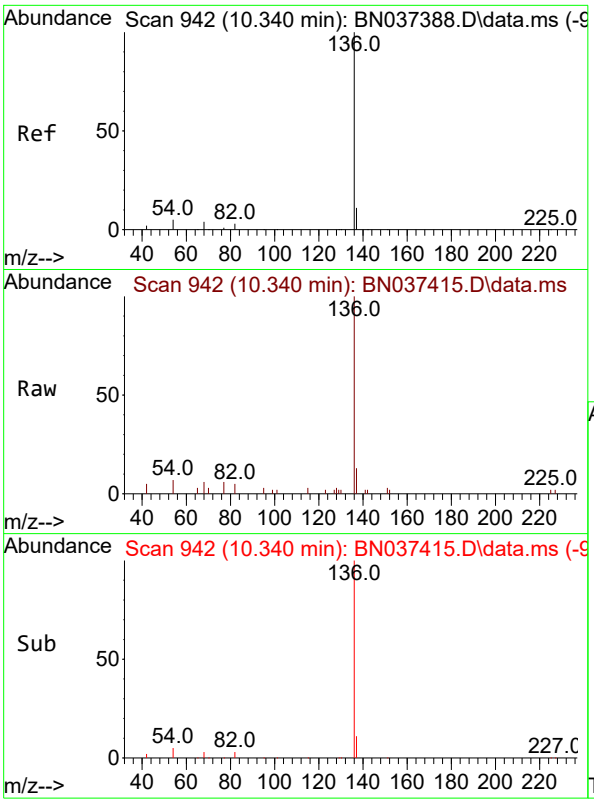


#6
bis(2-Chloroethyl)ether
Concen: 0.329 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion: 93 Resp: 1118

Ion	Ratio	Lower	Upper
93	100		
63	69.5	49.6	74.4
95	35.8	23.9	35.9



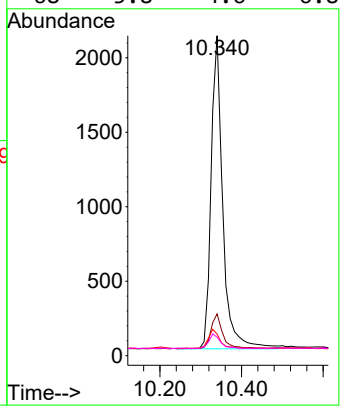


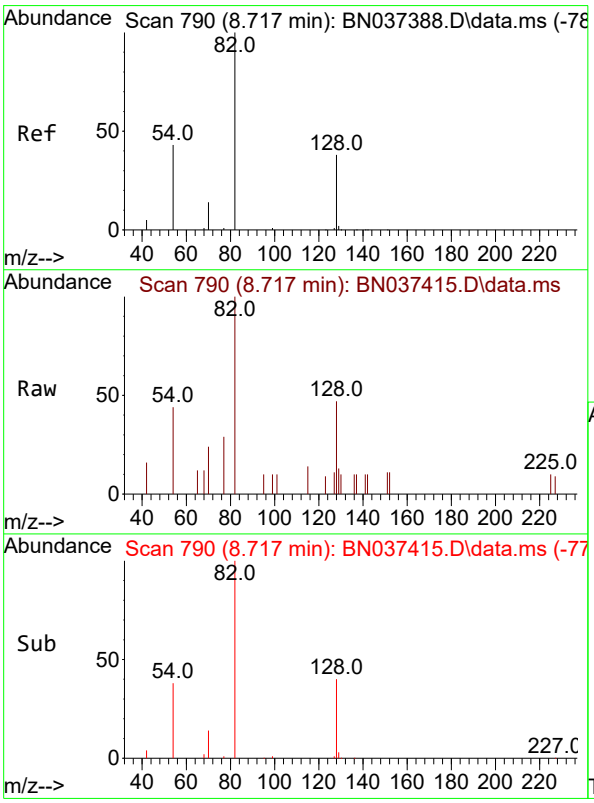
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4152

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.4	15.6
54	6.8	5.6	8.4
68	5.8	4.6	6.8

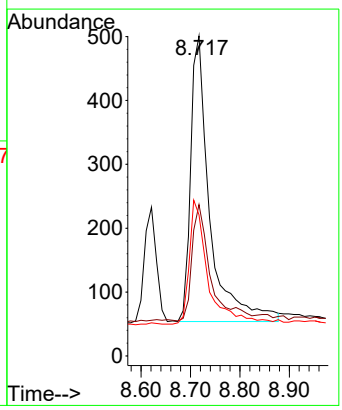


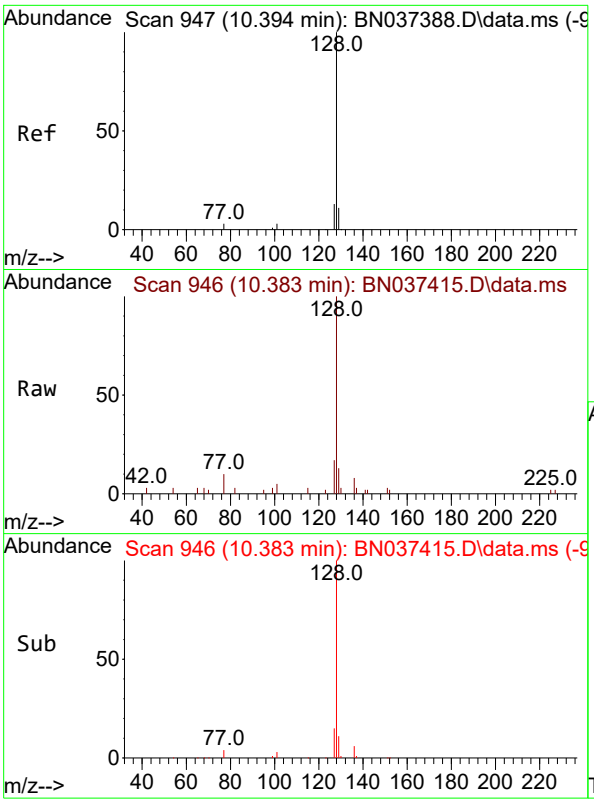


#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion: 82 Resp: 1198

Ion	Ratio	Lower	Upper
82	100		
128	47.3	34.0	51.0
54	44.1	37.7	56.5



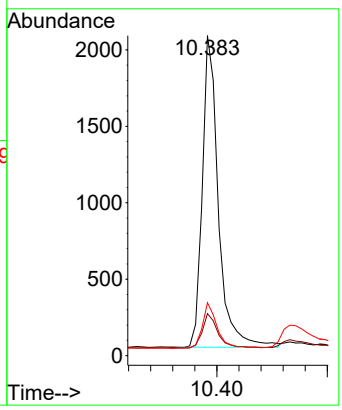


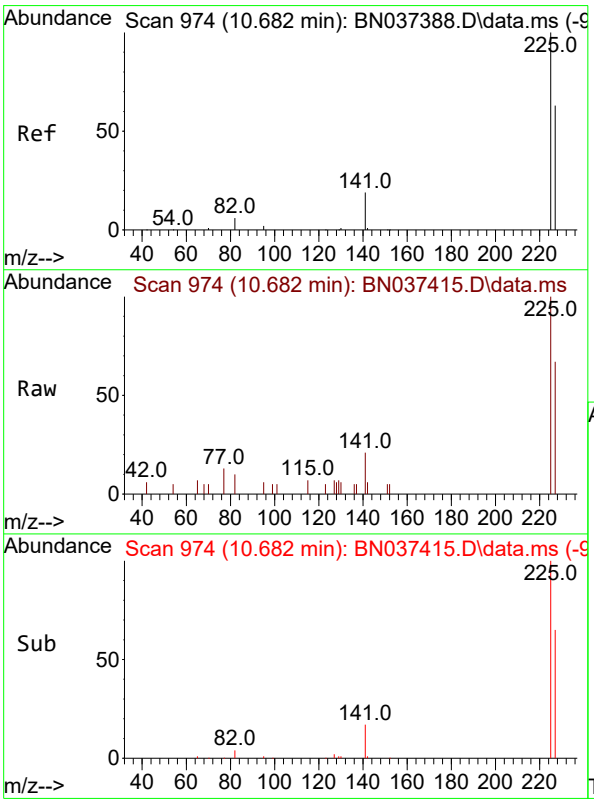
#9
Naphthalene
Concen: 0.386 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4123

Ion	Ratio	Lower	Upper
128	100		
129	13.1	10.4	15.6
127	16.5	12.2	18.4

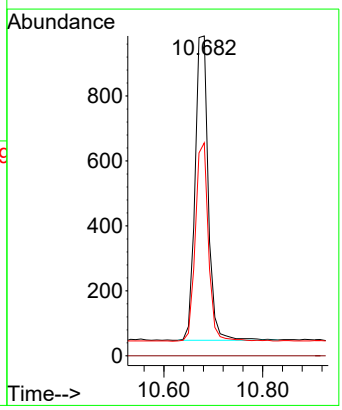


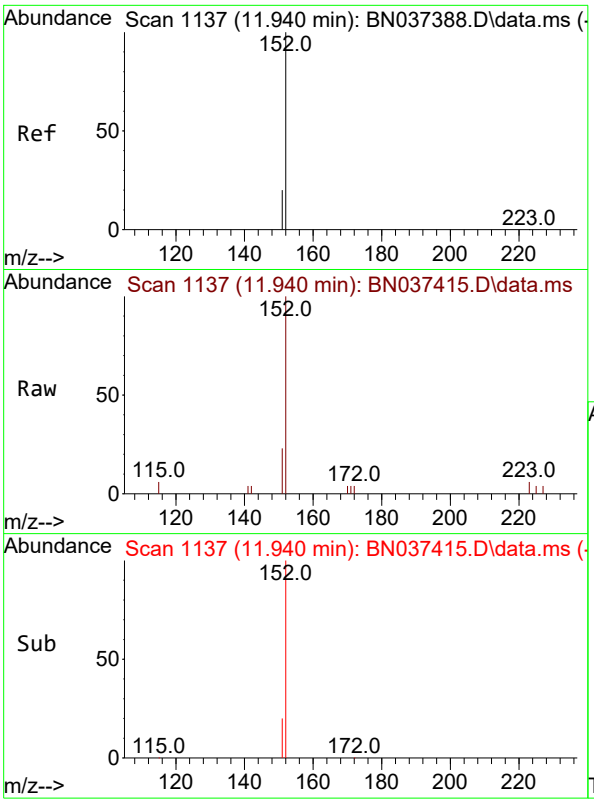


#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:225 Resp: 1736

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	49.9	74.9



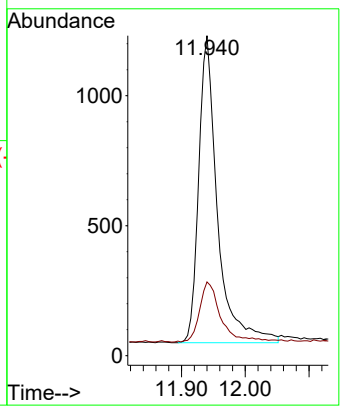


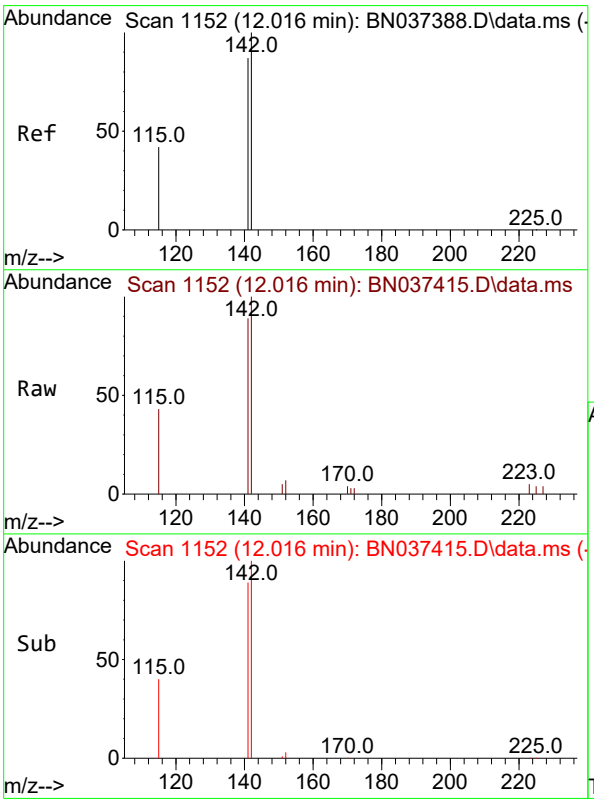
#11
2-Methylnaphthalene-d10
Concen: 0.376 ng
RT: 11.940 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2415

Ion	Ratio	Lower	Upper
152	100		
151	22.1	18.4	27.6

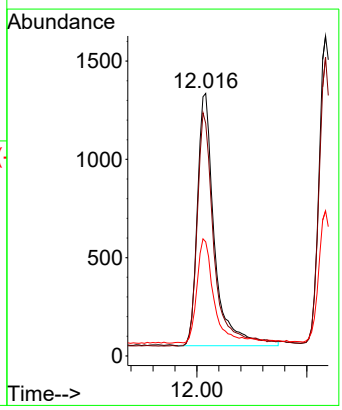


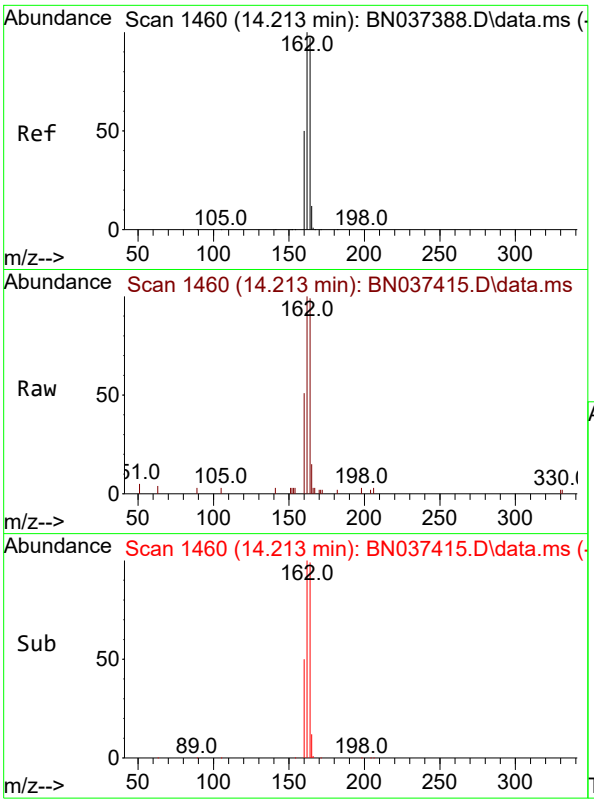


#12
2-Methylnaphthalene
Concen: 0.379 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:142 Resp: 2789

Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.1	105.1
115	43.4	35.8	53.6



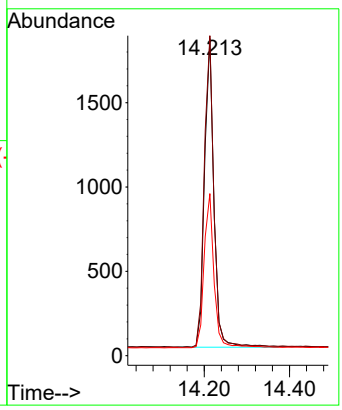


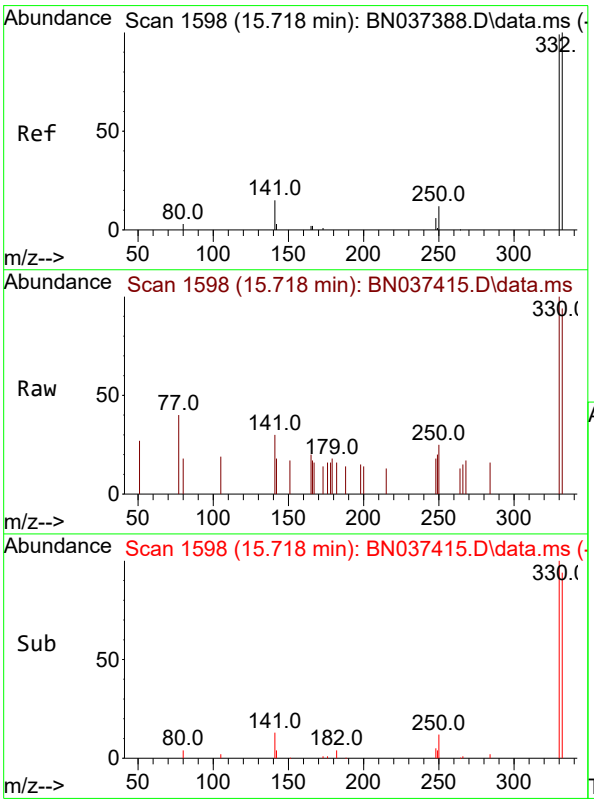
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2803

Ion	Ratio	Lower	Upper
164	100		
162	100.9	82.6	123.8
160	51.1	42.2	63.2

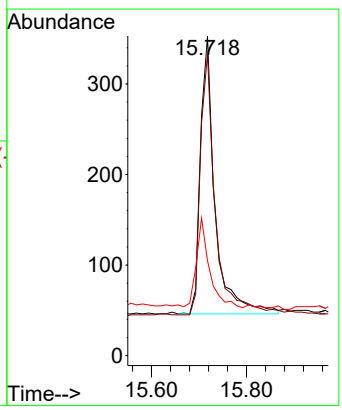


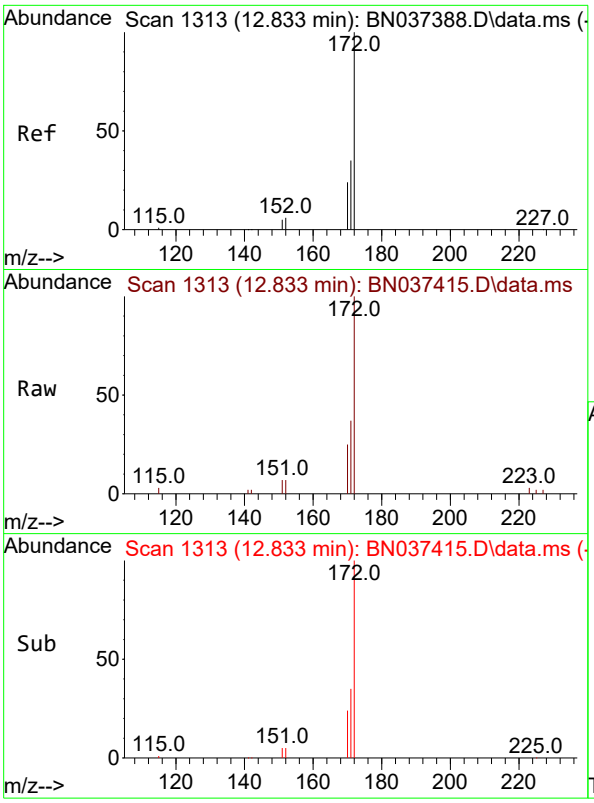


#14
2,4,6-Tribromophenol
Concen: 0.400 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:330 Resp: 658

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.8	116.8
141	28.6	24.0	36.0



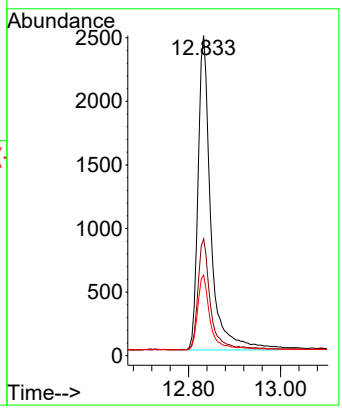


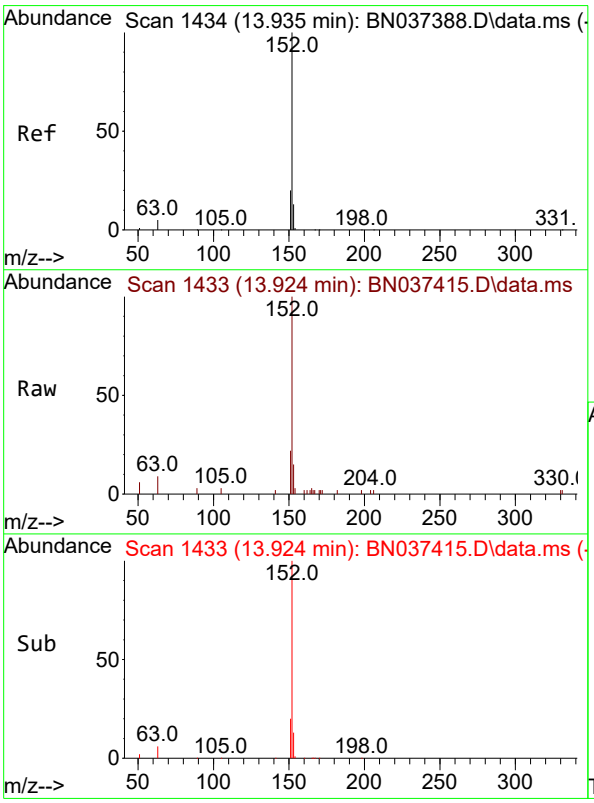
#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.833 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 4761

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.8	43.2
170	25.2	20.3	30.5

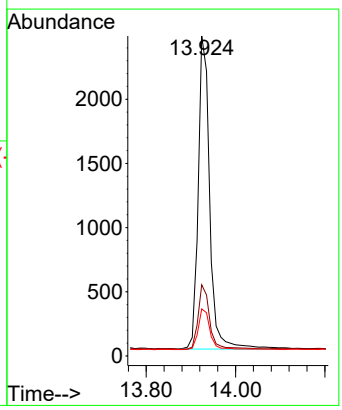


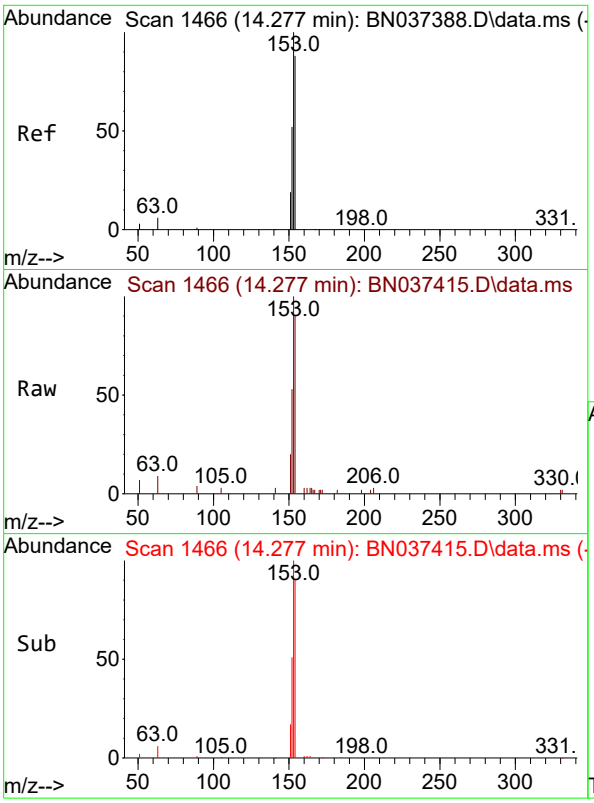


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:152 Resp: 4361

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.8	23.6
153	13.5	10.3	15.5



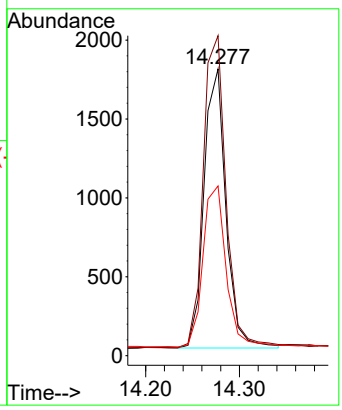


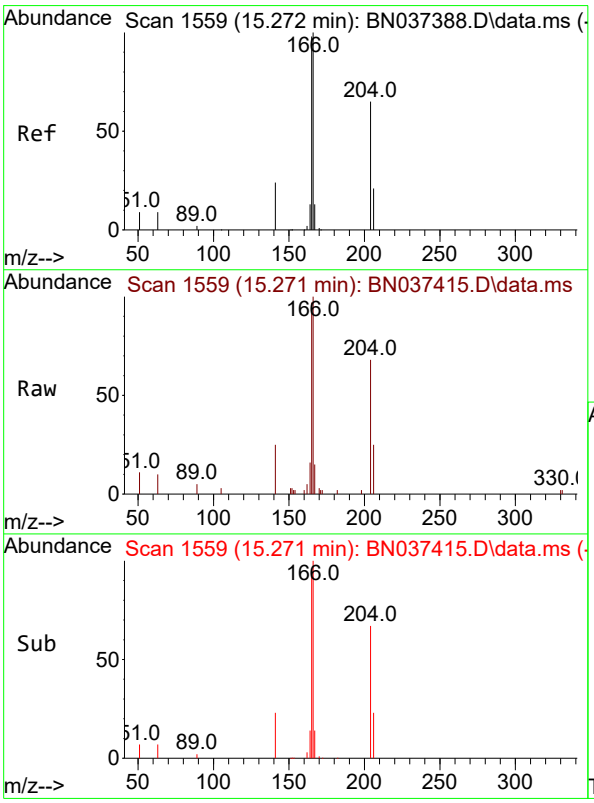
#17
Acenaphthene
Concen: 0.377 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2865

Ion	Ratio	Lower	Upper
154	100		
153	118.2	94.6	141.8
152	61.0	50.2	75.2

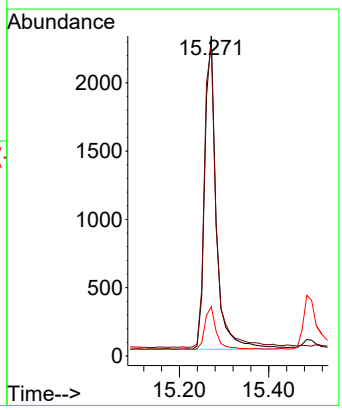


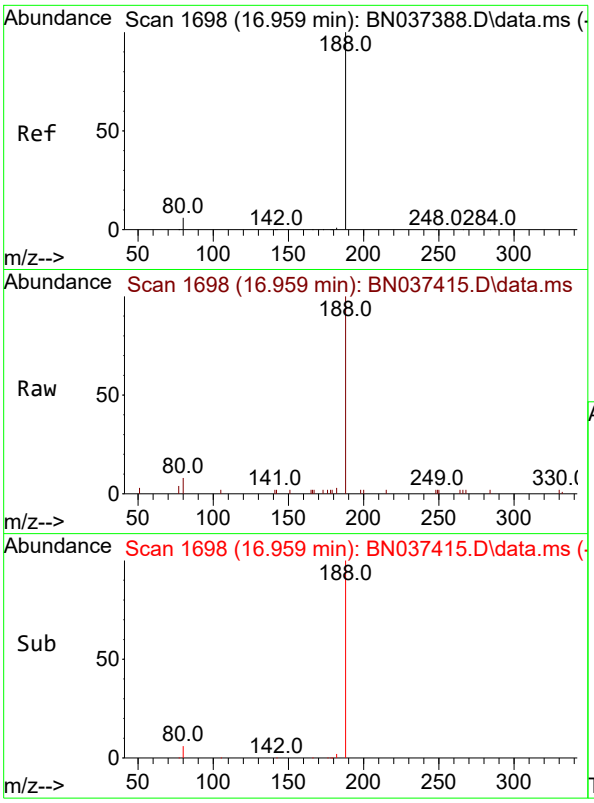


#18
Fluorene
Concen: 0.383 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:166 Resp: 4105

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.4	119.2
167	13.5	10.6	15.8



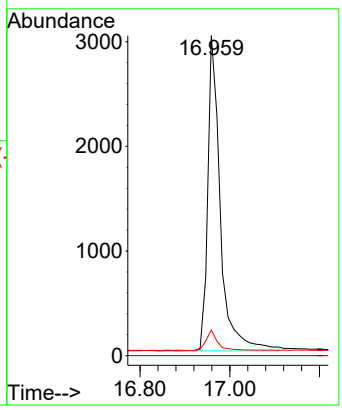


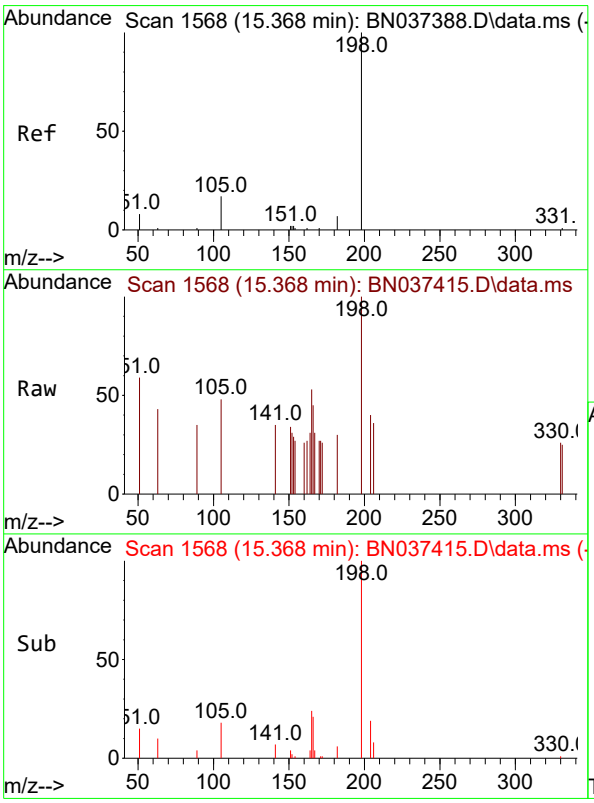
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.959 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5832

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	6.2	9.4

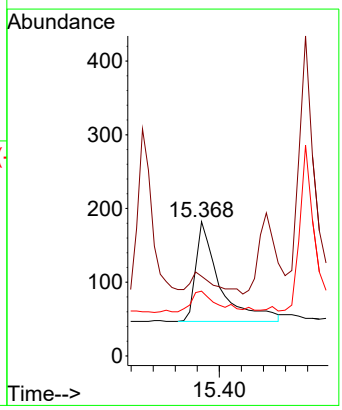


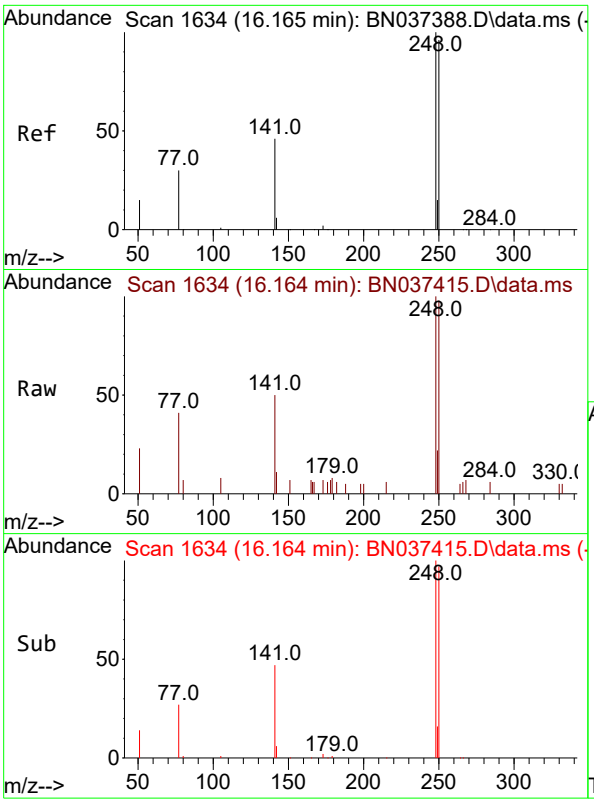


#20
4,6-Dinitro-2-methylphenol
Concen: 0.270 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:198 Resp: 405

Ion	Ratio	Lower	Upper
198	100		
51	59.3	38.8	58.2#
105	48.4	29.8	44.6#



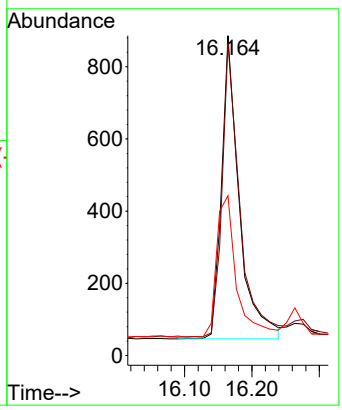


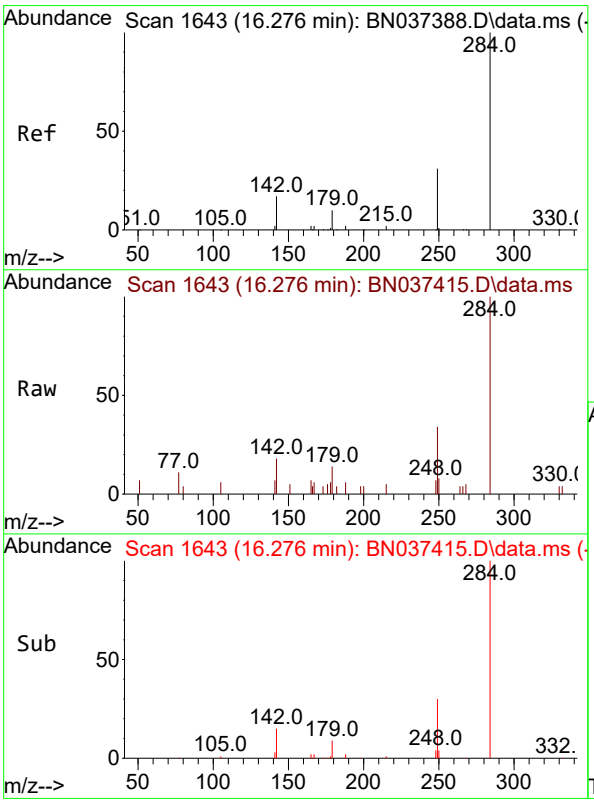
#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 16.164 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1533

Ion	Ratio	Lower	Upper
248	100		
250	97.6	77.0	115.4
141	50.0	38.7	58.1

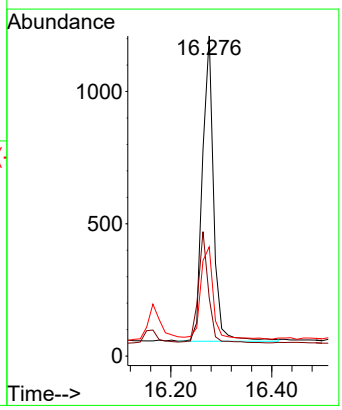


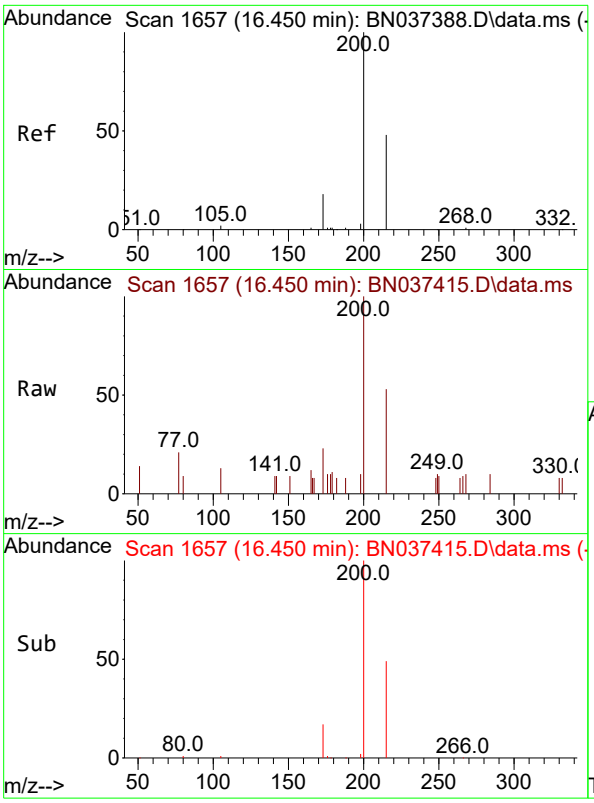


#22
Hexachlorobenzene
Concen: 0.403 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:284 Resp: 1783

Ion	Ratio	Lower	Upper
284	100		
142	33.3	27.2	40.8
249	34.9	26.7	40.1



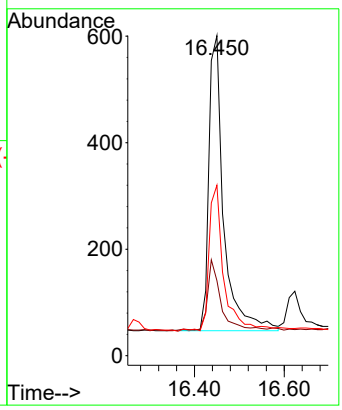


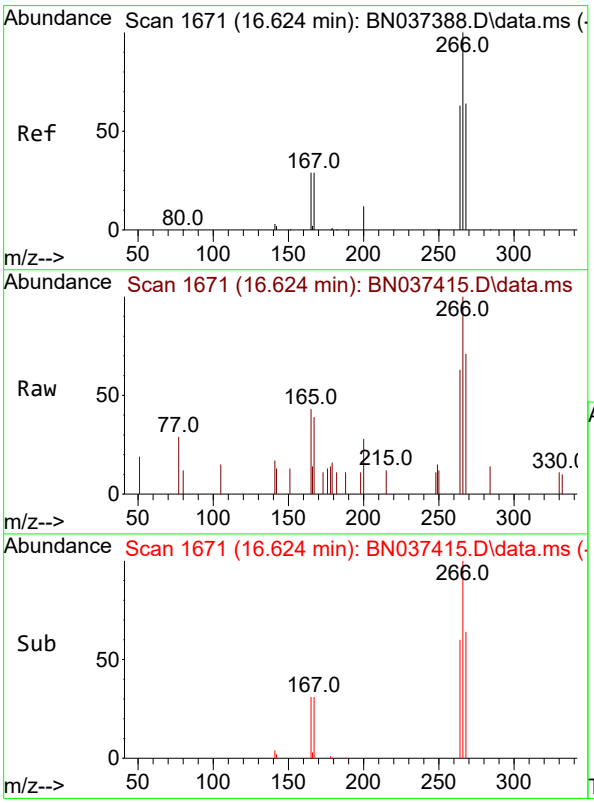
#23
Atrazine
Concen: 0.387 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1260

Ion	Ratio	Lower	Upper
200	100		
173	23.5	19.0	28.6
215	53.2	41.3	61.9

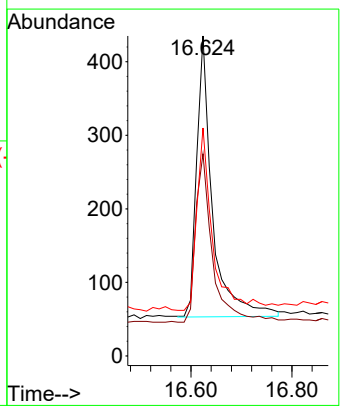


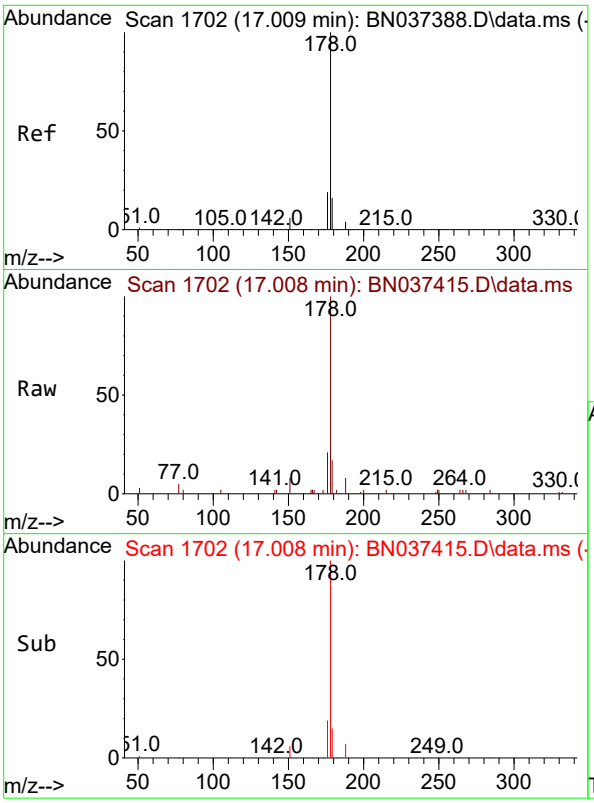


#24
Pentachlorophenol
Concen: 0.347 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:266 Resp: 828

Ion	Ratio	Lower	Upper
266	100		
264	64.0	49.2	73.8
268	66.7	54.2	81.4



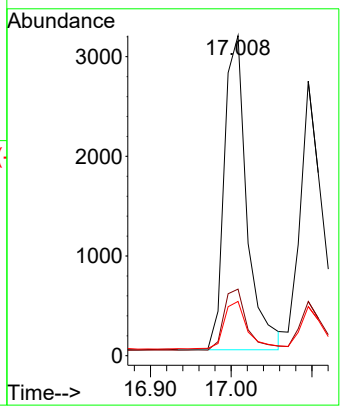


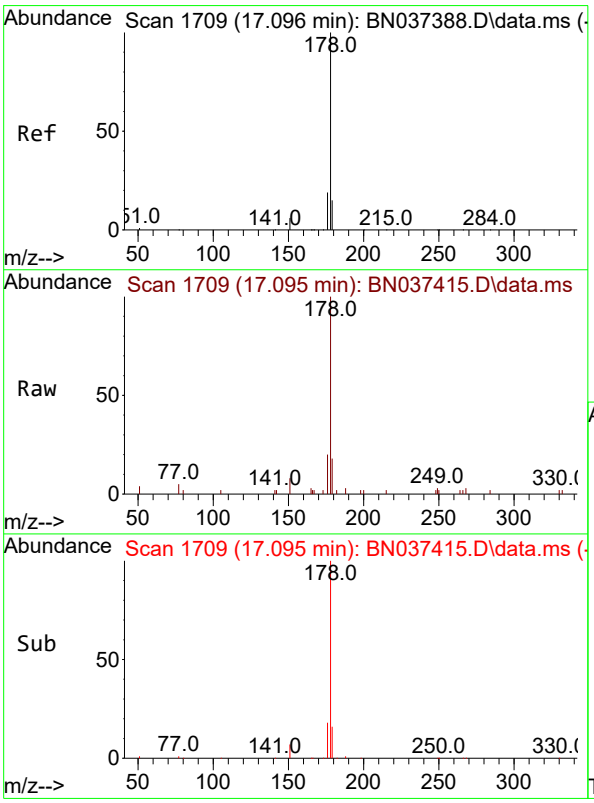
#25
Phenanthrene
Concen: 0.375 ng
RT: 17.008 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6159

Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.6	23.4
179	15.9	12.8	19.2

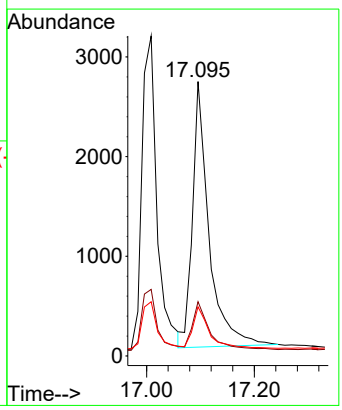


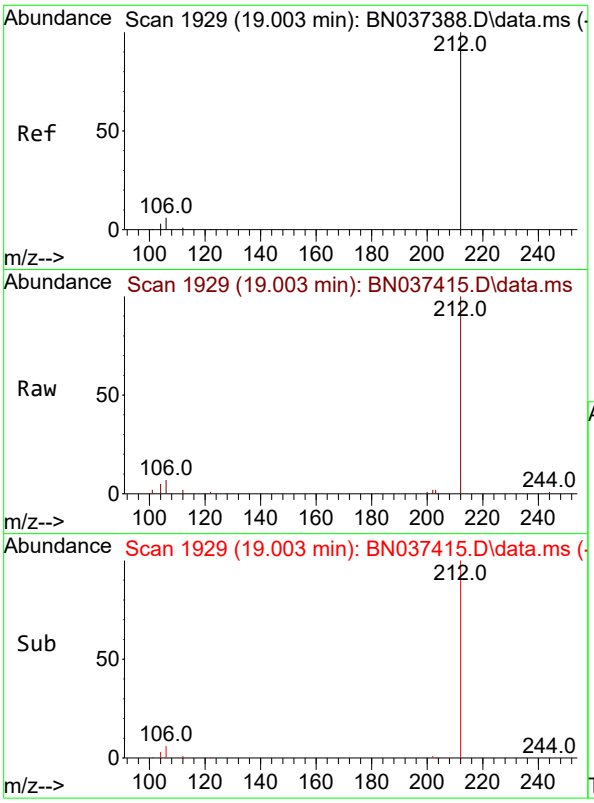


#26
Anthracene
Concen: 0.375 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:178 Resp: 5663

Ion	Ratio	Lower	Upper
178	100		
176	19.1	14.9	22.3
179	15.9	12.4	18.6



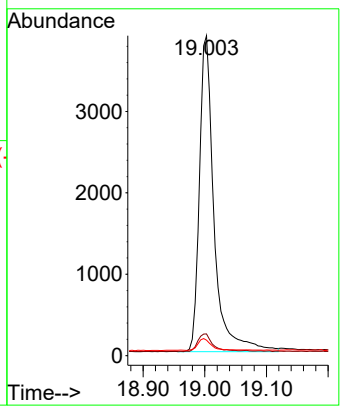


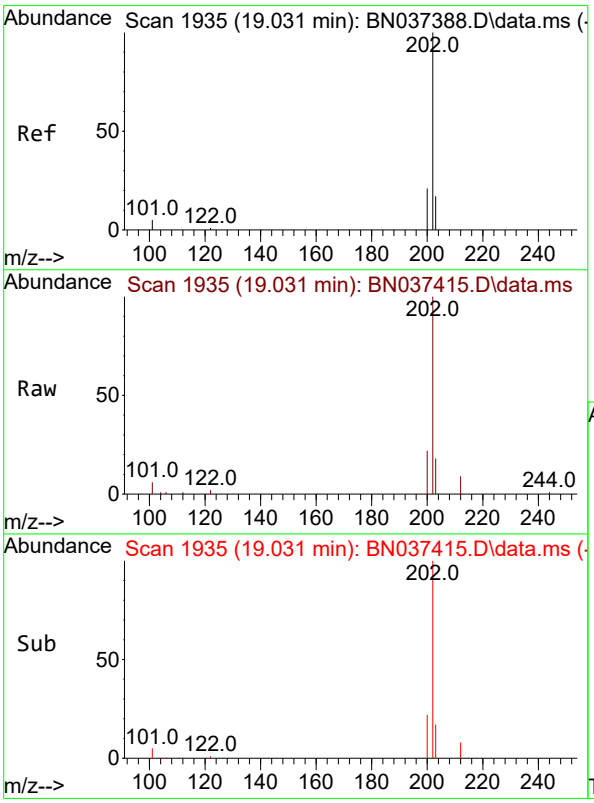
#27
Fluoranthene-d10
Concen: 0.383 ng
RT: 19.003 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 6400

Ion	Ratio	Lower	Upper
212	100		
106	5.7	4.5	6.7
104	3.7	2.7	4.1

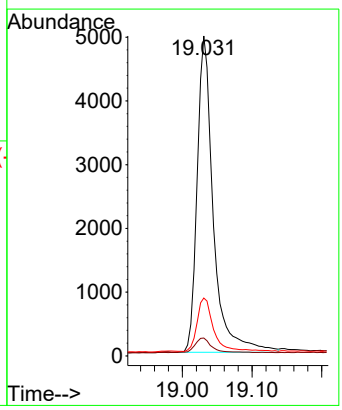


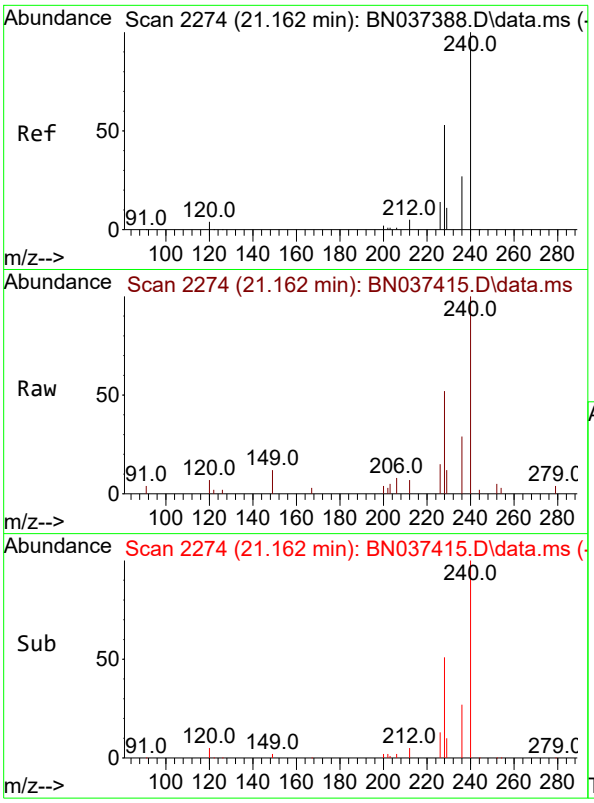


#28
Fluoranthene
Concen: 0.382 ng
RT: 19.031 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:202 Resp: 8012

Ion	Ratio	Lower	Upper
202	100		
101	4.9	3.8	5.6
203	17.0	13.5	20.3



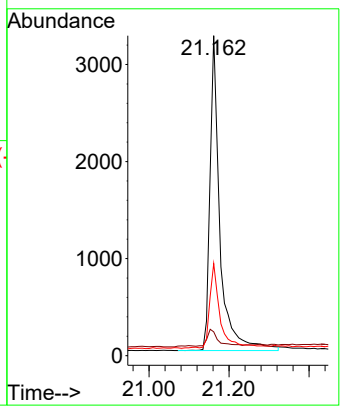


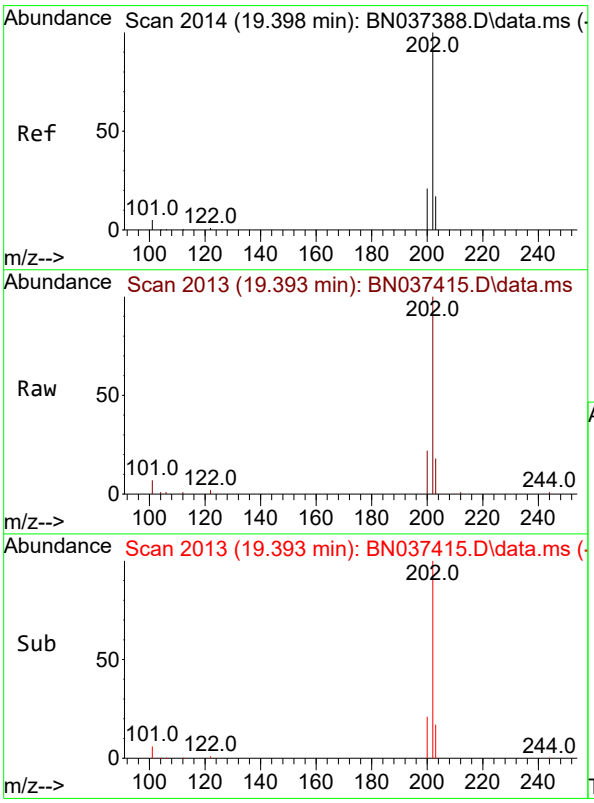
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 5618

Ion	Ratio	Lower	Upper
240	100		
120	7.5	5.3	7.9
236	28.8	22.7	34.1

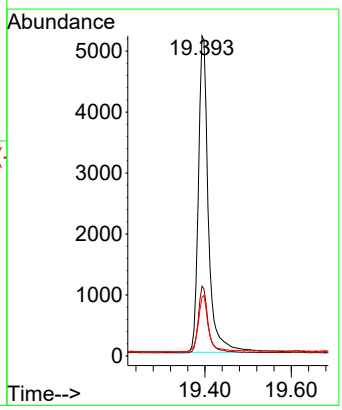


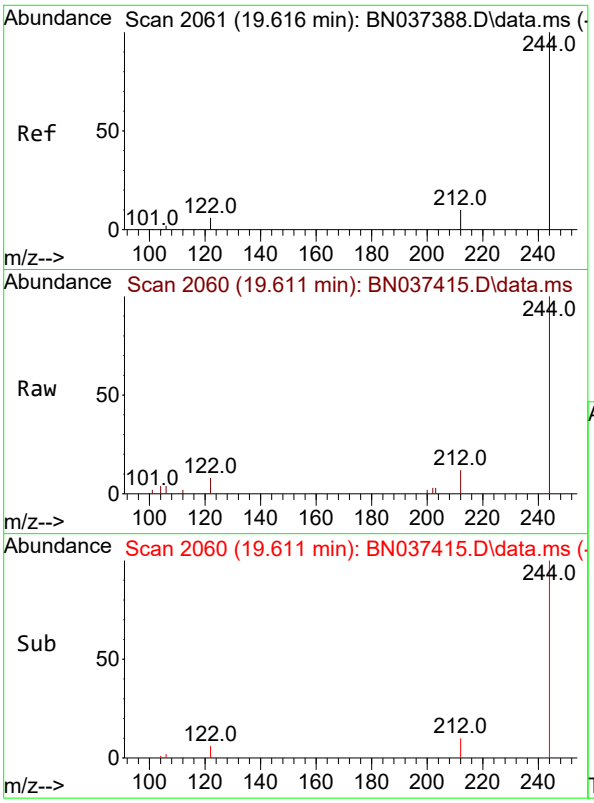


#30
Pyrene
Concen: 0.395 ng
RT: 19.393 min Scan# 2013
Delta R.T. -0.005 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:202 Resp: 8391

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.5	24.7
203	17.7	14.2	21.2



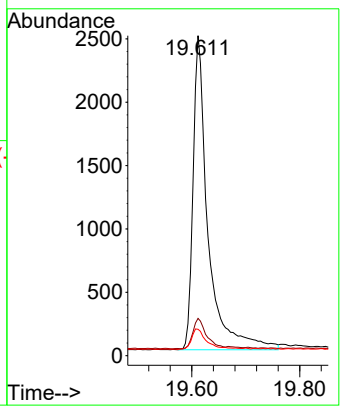


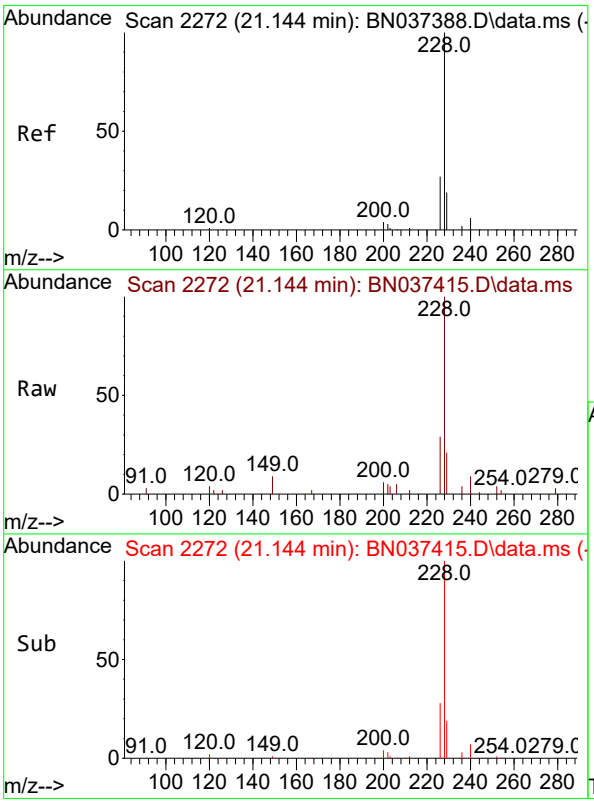
#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.611 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 4769

Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.1	13.7
122	8.2	6.3	9.5

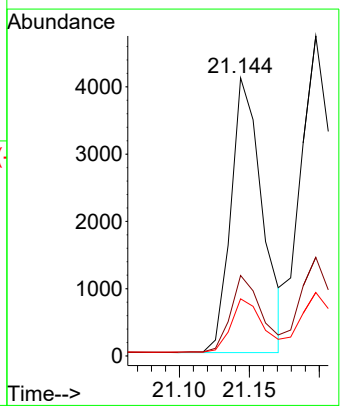


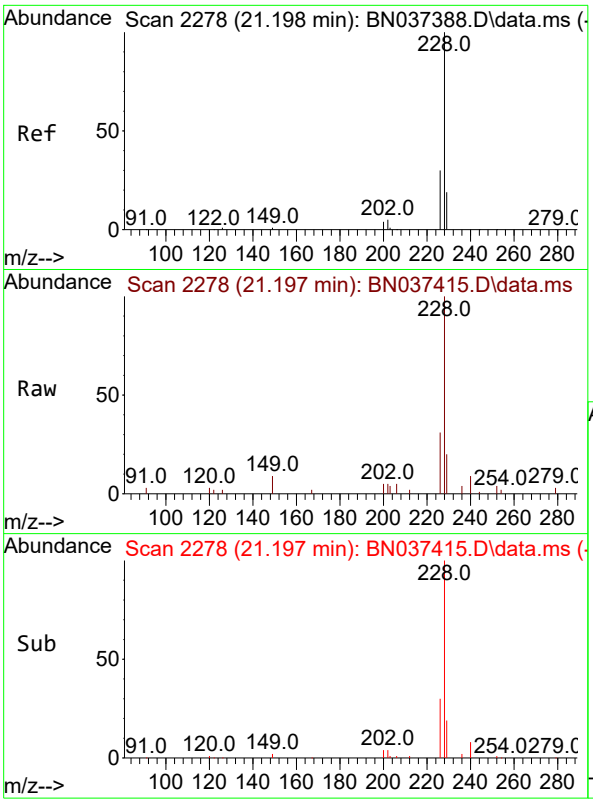


#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:228 Resp: 6423

Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	34.0
229	20.6	16.2	24.2



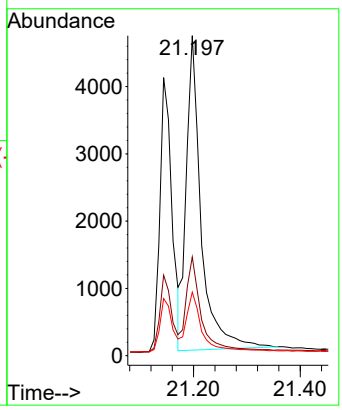


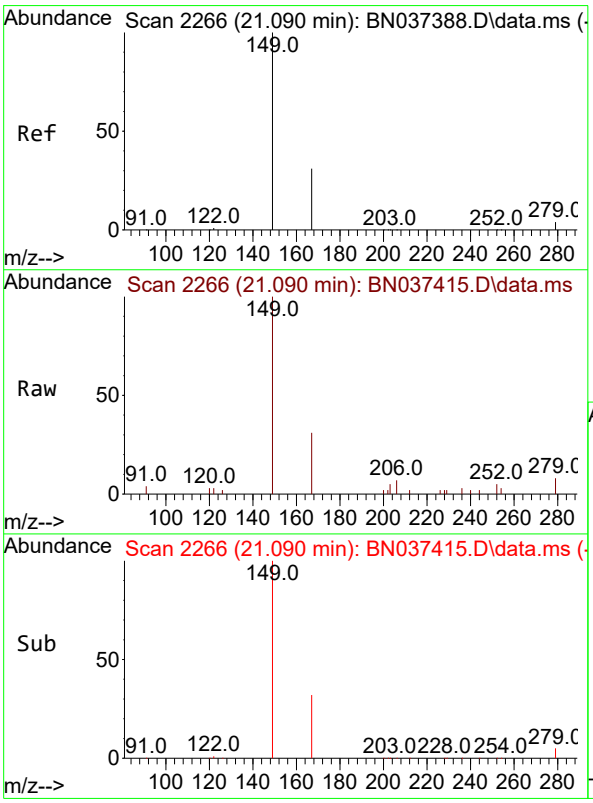
#33
Chrysene
Concen: 0.413 ng
RT: 21.197 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 9016

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	19.9	16.1	24.1

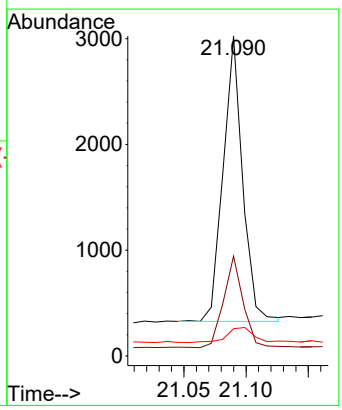


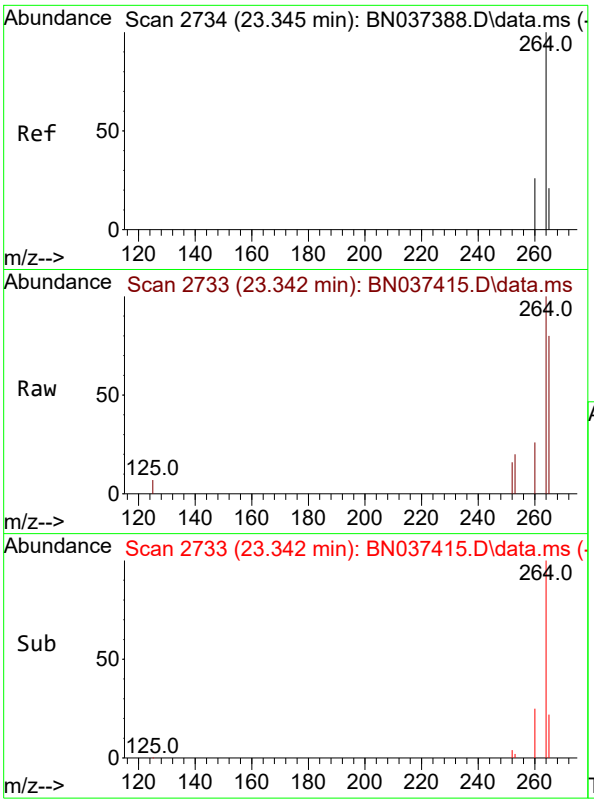


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.419 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:149 Resp: 2930

Ion	Ratio	Lower	Upper
149	100		
167	31.9	24.8	37.2
279	7.5	5.0	7.6



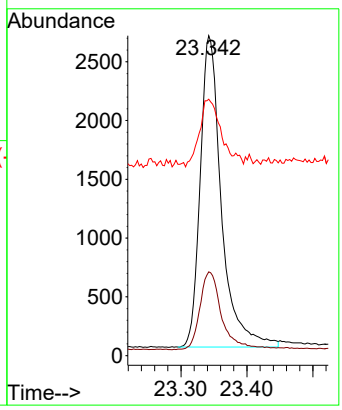


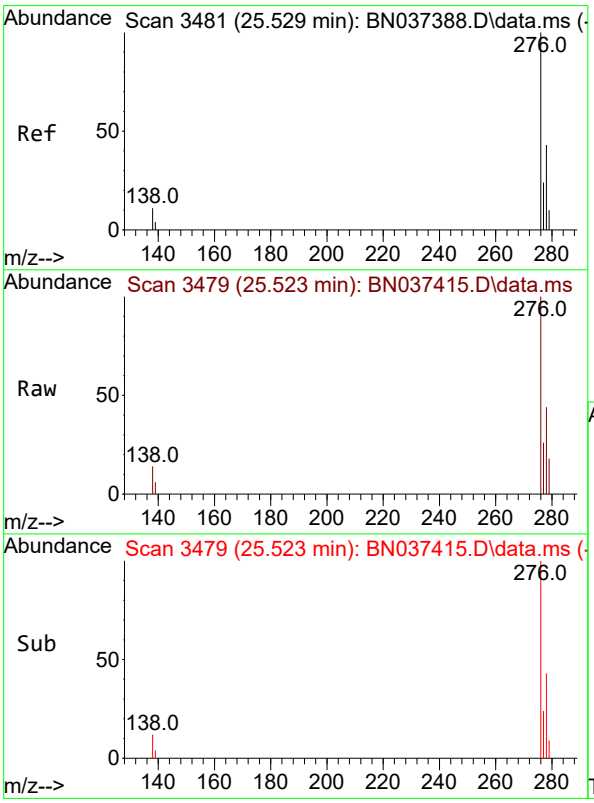
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.342 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 5931

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.0
265	80.2	56.2	84.4

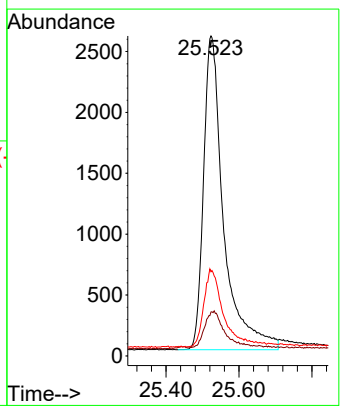


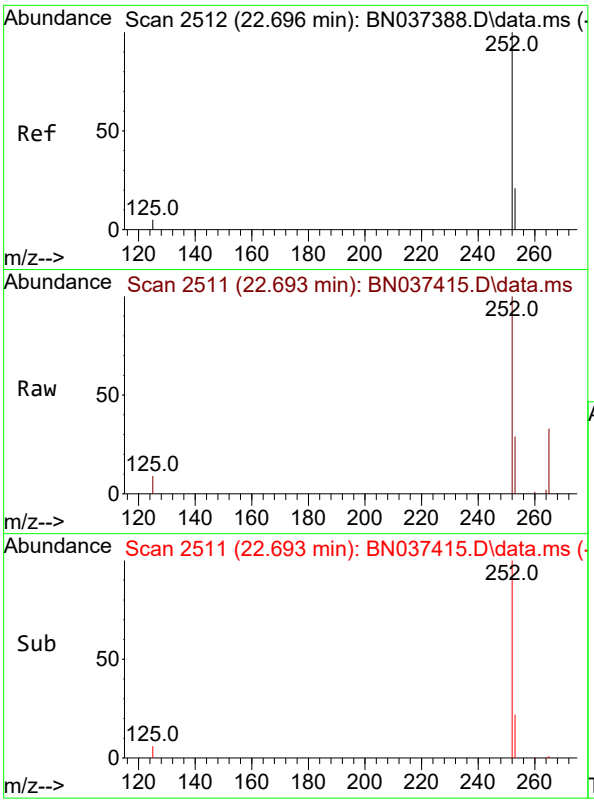


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.395 ng
RT: 25.523 min Scan# 3479
Delta R.T. -0.006 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:276 Resp: 9870

Ion	Ratio	Lower	Upper
276	100		
138	11.3	8.5	12.7
277	22.8	19.7	29.5



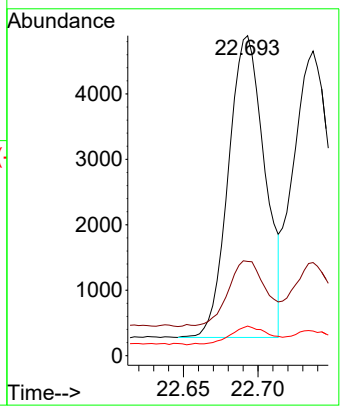


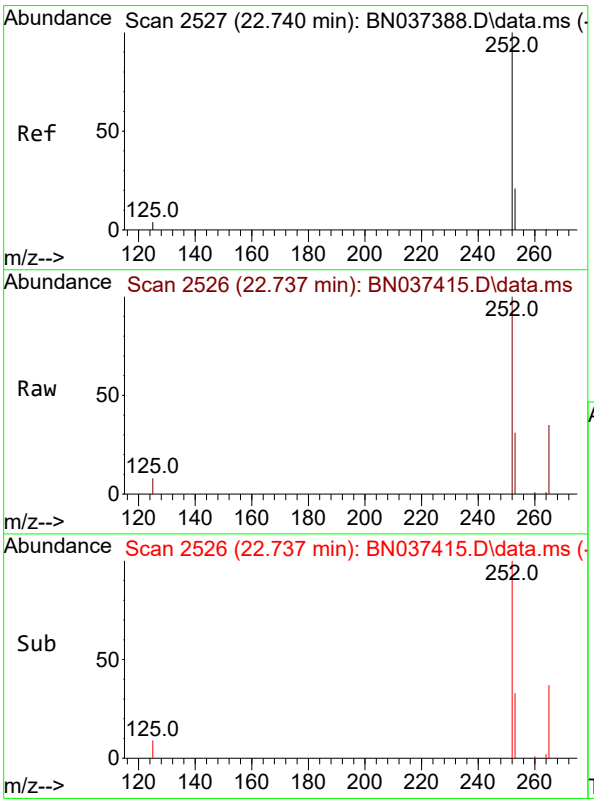
#37
Benzo(b)fluoranthene
Concen: 0.373 ng
RT: 22.693 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 7809

Ion	Ratio	Lower	Upper
252	100		
253	29.5	22.8	34.2
125	9.3	6.2	9.4

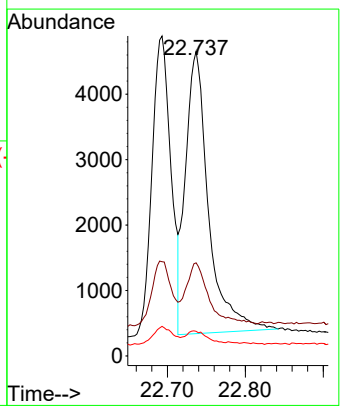


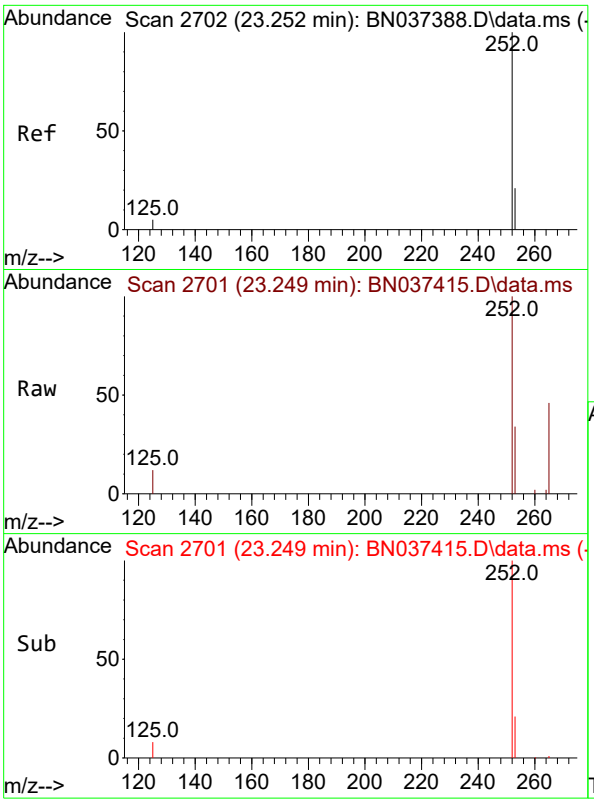


#38
Benzo(k)fluoranthene
Concen: 0.396 ng
RT: 22.737 min Scan# 2526
Delta R.T. -0.003 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:252 Resp: 8852

Ion	Ratio	Lower	Upper
252	100		
253	30.6	23.2	34.8
125	8.1	6.0	9.0



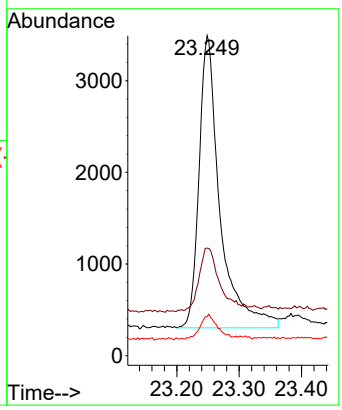


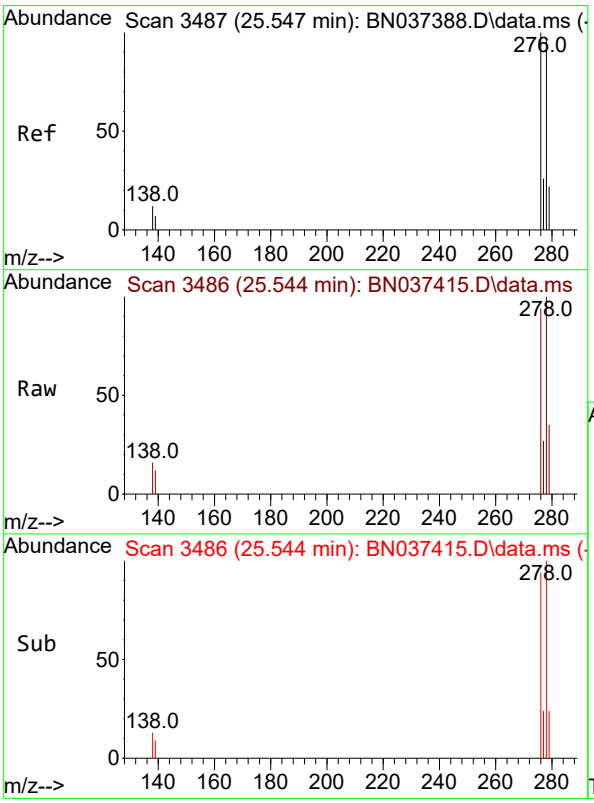
#39
Benzo(a)pyrene
Concen: 0.400 ng
RT: 23.249 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 7434

Ion	Ratio	Lower	Upper
252	100		
253	33.6	25.6	38.4
125	12.3	7.5	11.3#

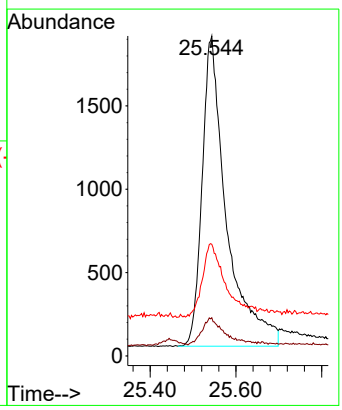


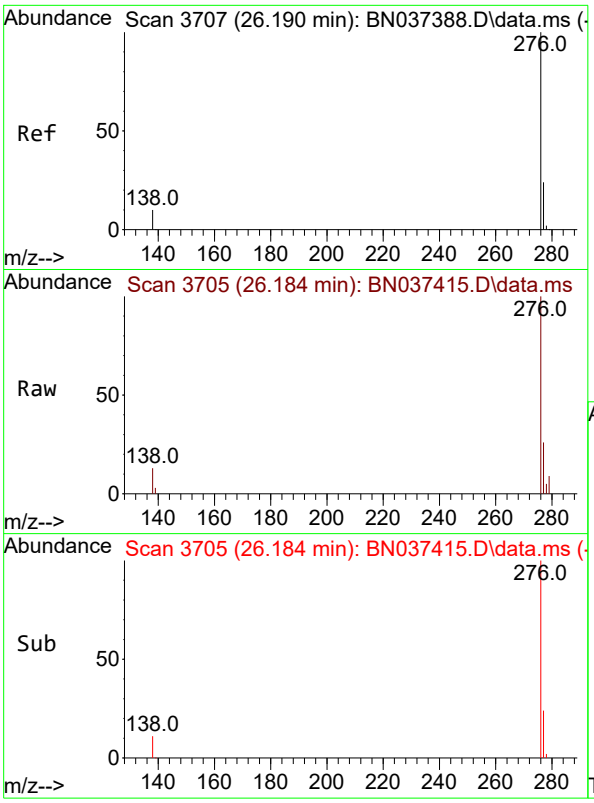


#40
Dibenzo(a,h)anthracene
Concen: 0.383 ng
RT: 25.544 min Scan# 3486
Delta R.T. -0.003 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Tgt Ion:278 Resp: 7351

Ion	Ratio	Lower	Upper
278	100		
139	11.9	8.5	12.7
279	34.9	27.5	41.3



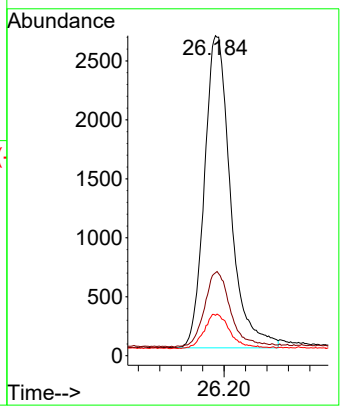


#41
Benzo(g,h,i)perylene
Concen: 0.390 ng
RT: 26.184 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037415.D
Acq: 27 Jun 2025 04:54

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 8948

Ion	Ratio	Lower	Upper
276	100		
277	25.9	21.0	31.4
138	12.6	9.6	14.4



Sample Results: **BN037415.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037415.D
Acq On : 27 Jun 2025 04:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 05:26:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
2		1,4-Dioxane	0.379	0.394	-4.0	96	0.00
3		n-Nitrosodimethylamine	0.375	0.341	9.1	82	0.00
4	S	2-Fluorophenol	0.771	0.782	-1.4	88	0.00
5	S	Phenol-d6	0.799	0.787	1.5	87	0.00
6		bis(2-Chloroethyl)ether	0.711	0.585	17.7	74	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00
8	S	Nitrobenzene-d5	0.321	0.289	10.0	84	0.00
9		Naphthalene	1.030	0.993	3.6	90	-0.01
10		Hexachlorobutadiene	0.409	0.418	-2.2	92	0.00
11	SURR	2-Methylnaphthalene-d10	0.619	0.582	6.0	92	0.00
12		2-Methylnaphthalene	0.709	0.672	5.2	89	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
14	S	2,4,6-Tribromophenol	0.235	0.235	0.0	90	0.00
15	S	2-Fluorobiphenyl	1.727	1.699	1.6	91	0.00
16		Acenaphthylene	1.659	1.556	6.2	91	-0.01
17		Acenaphthene	1.083	1.022	5.6	90	0.00
18		Fluorene	1.530	1.465	4.2	91	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
20		4,6-Dinitro-2-methylphenol	0.103	0.069	33.0#	76	0.00
21		4-Bromophenyl-phenylether	0.282	0.263	6.7	90	0.00
22		Hexachlorobenzene	0.303	0.306	-1.0	94	0.00
23		Atrazine	0.224	0.216	3.6	94	0.00
24		Pentachlorophenol	0.164	0.142	13.4	85	0.00
25		Phenanthrene	1.127	1.056	6.3	91	0.00
26		Anthracene	1.036	0.971	6.3	93	0.00
27	SURR	Fluoranthene-d10	1.146	1.097	4.3	96	0.00
28		Fluoranthene	1.439	1.374	4.5	94	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	100	0.00
30		Pyrene	1.514	1.494	1.3	97	0.00
31	S	Terphenyl-d14	0.853	0.849	0.5	98	0.00
32		Benzo(a)anthracene	1.257	1.143	9.1	98	0.00
33		Chrysene	1.556	1.605	-3.1	101	0.00
34		Bis(2-ethylhexyl)phthalate	0.498	0.522	-4.8	104	0.00
35	I	Perylene-d12	1.000	1.000	0.0	100	0.00
36		Indeno(1,2,3-cd)pyrene	1.686	1.664	1.3	105	0.00
37		Benzo(b)fluoranthene	1.410	1.317	6.6	100	0.00
38		Benzo(k)fluoranthene	1.507	1.492	1.0	102	0.00
39	C	Benzo(a)pyrene	1.254	1.253	0.1	106	0.00
40		Dibenzo(a,h)anthracene	1.296	1.239	4.4	102	0.00
41		Benzo(g,h,i)perylene	1.548	1.509	2.5	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BN037415.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037415.D
Acq On : 27 Jun 2025 04:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 05:26:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	90	0.00
2		1,4-Dioxane	0.400	0.415	-3.7	96	0.00
3		n-Nitrosodimethylamine	0.400	0.364	9.0	82	0.00
4	S	2-Fluorophenol	0.400	0.406	-1.5	88	0.00
5	S	Phenol-d6	0.400	0.394	1.5	87	0.00
6		bis(2-Chloroethyl)ether	0.400	0.329	17.8	74	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	91	0.00
8	S	Nitrobenzene-d5	0.400	0.360	10.0	84	0.00
9		Naphthalene	0.400	0.386	3.5	90	-0.01
10		Hexachlorobutadiene	0.400	0.409	-2.2	92	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.376	6.0	92	0.00
12		2-Methylnaphthalene	0.400	0.379	5.3	89	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	92	0.00
14	S	2,4,6-Tribromophenol	0.400	0.400	0.0	90	0.00
15	S	2-Fluorobiphenyl	0.400	0.393	1.8	91	0.00
16		Acenaphthylene	0.400	0.375	6.3	91	-0.01
17		Acenaphthene	0.400	0.377	5.8	90	0.00
18		Fluorene	0.400	0.383	4.3	91	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	93	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.270	32.5#	76	0.00
21		4-Bromophenyl-phenylether	0.400	0.373	6.8	90	0.00
22		Hexachlorobenzene	0.400	0.403	-0.8	94	0.00
23		Atrazine	0.400	0.387	3.3	94	0.00
24		Pentachlorophenol	0.400	0.347	13.3	85	0.00
25		Phenanthrene	0.400	0.375	6.3	91	0.00
26		Anthracene	0.400	0.375	6.3	93	0.00
27	SURR	Fluoranthene-d10	0.400	0.383	4.3	96	0.00
28		Fluoranthene	0.400	0.382	4.5	94	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	100	0.00
30		Pyrene	0.400	0.395	1.3	97	0.00
31	S	Terphenyl-d14	0.400	0.398	0.5	98	0.00
32		Benzo(a)anthracene	0.400	0.364	9.0	98	0.00
33		Chrysene	0.400	0.413	-3.2	101	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.419	-4.7	104	0.00
35	I	Perylene-d12	0.400	0.400	0.0	100	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.395	1.3	105	0.00
37		Benzo(b)fluoranthene	0.400	0.373	6.8	100	0.00
38		Benzo(k)fluoranthene	0.400	0.396	1.0	102	0.00
39	C	Benzo(a)pyrene	0.400	0.400	0.0	106	0.00
40		Dibenzo(a,h)anthracene	0.400	0.383	4.3	102	0.00
41		Benzo(g,h,i)perylene	0.400	0.390	2.5	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

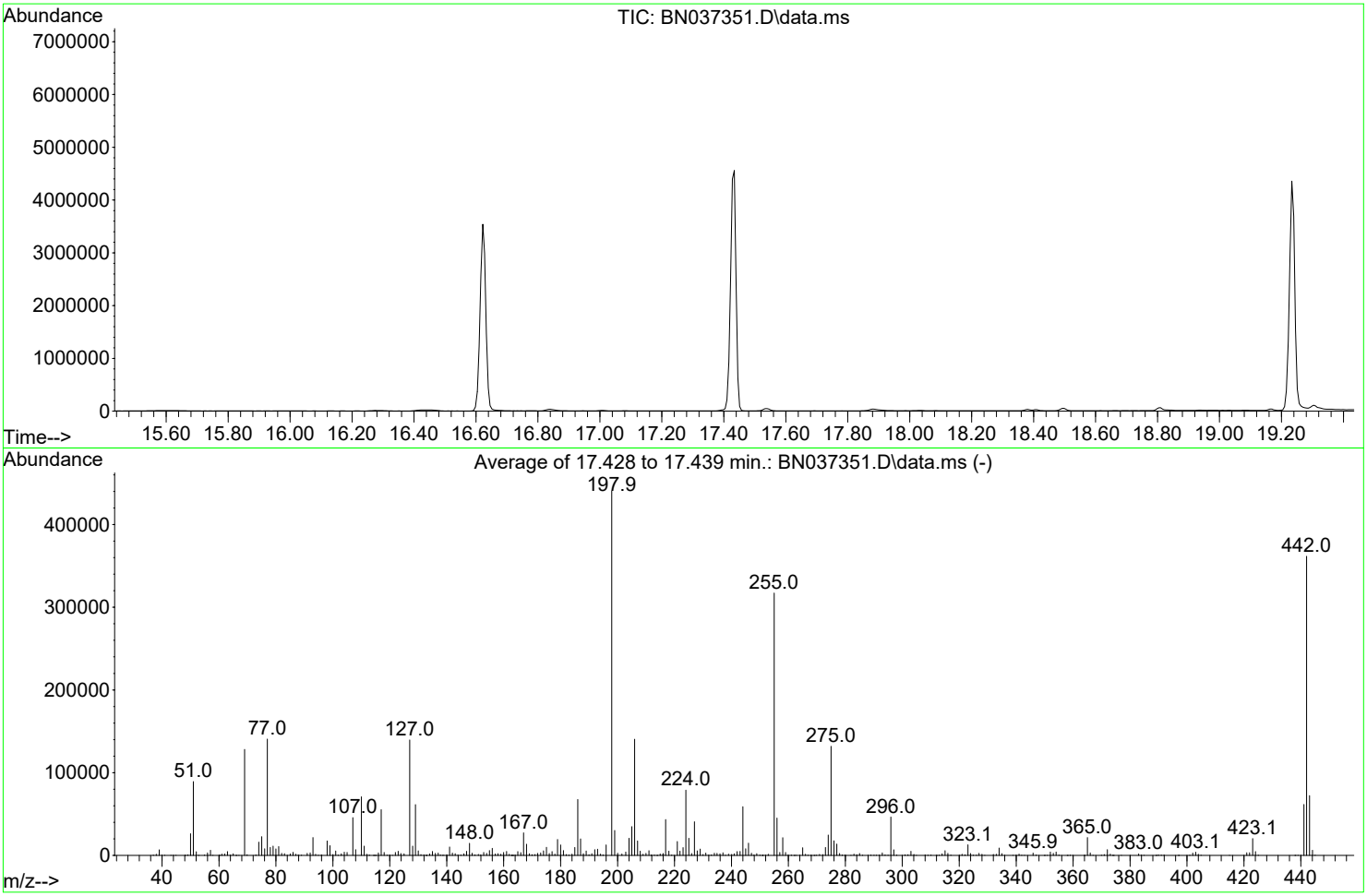
Sample Results: **BN037351.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
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-BN062125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 23:41:54 2025



AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2464

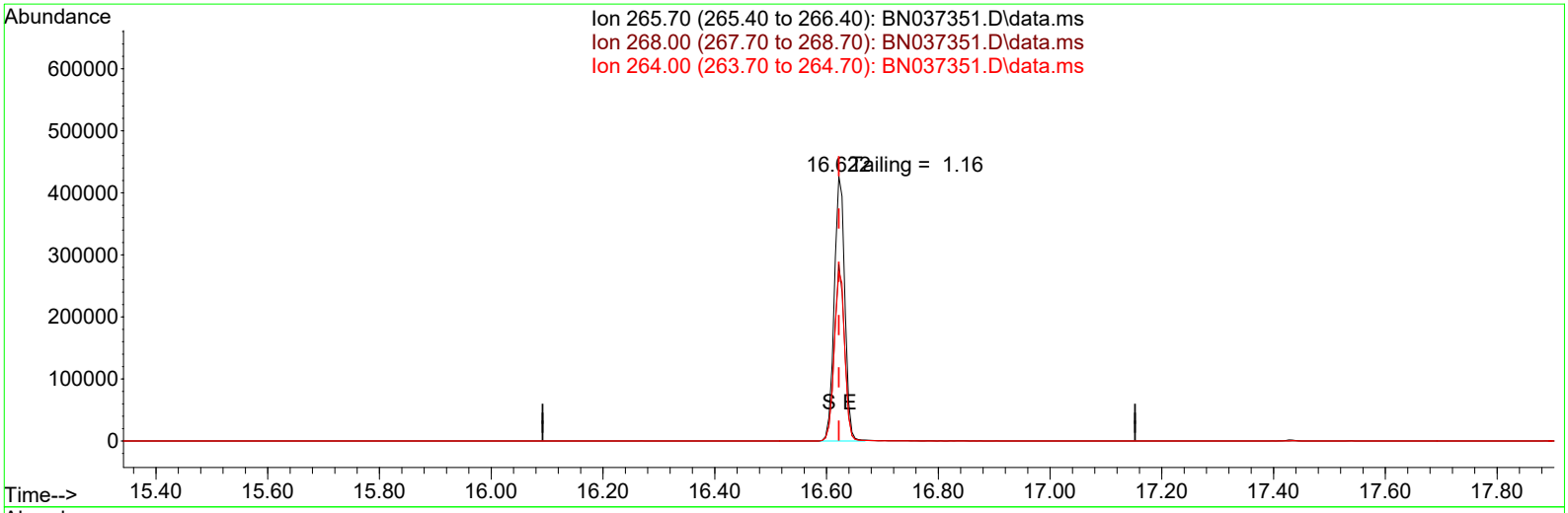
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	128141	PASS
70	69	0.00	2	0.7	882	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	440469	PASS
199	198	5	9	6.8	30163	PASS
365	198	1	100	4.9	21610	PASS
441	443	0.01	150	85.2	61520	PASS
442	442	100	100	100.0	361557	PASS
443	442	15	24	20.0	72213	PASS

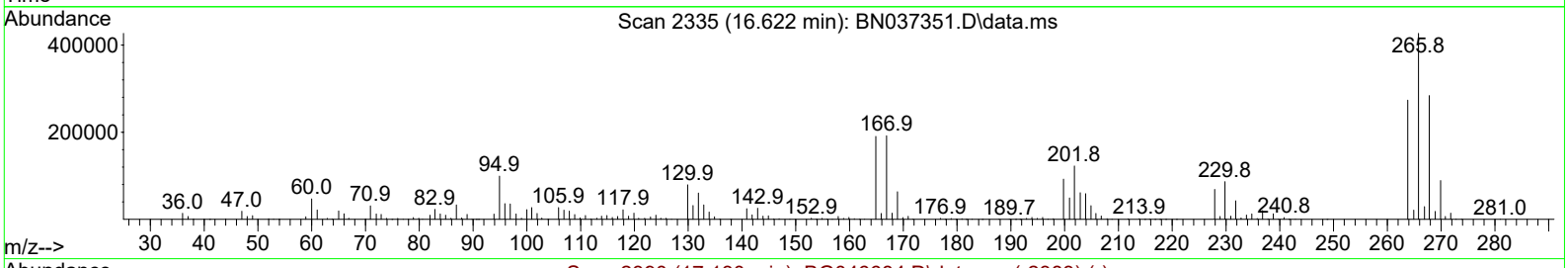
Sample Results: **BN037351.D**

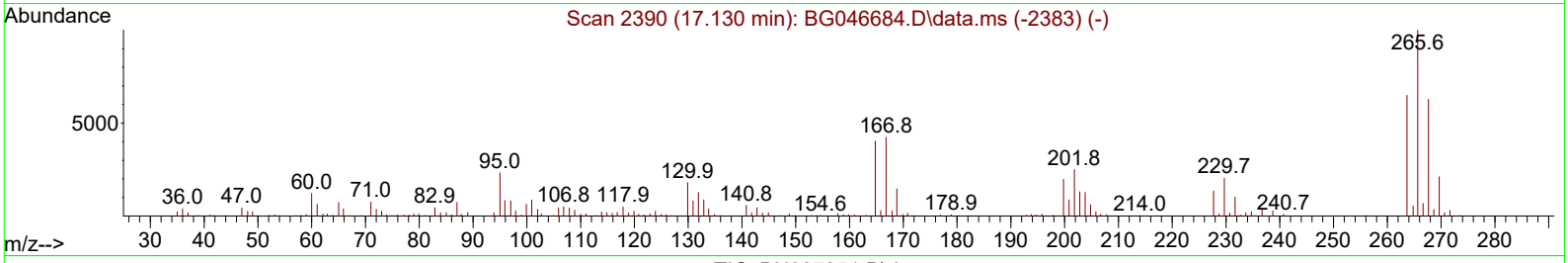
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 21 02:21:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration







TIC: BN037351.D\data.ms

(70) Pentachlorophenol (C)

16.622min (0.000) 21508.69 ng

response 561749

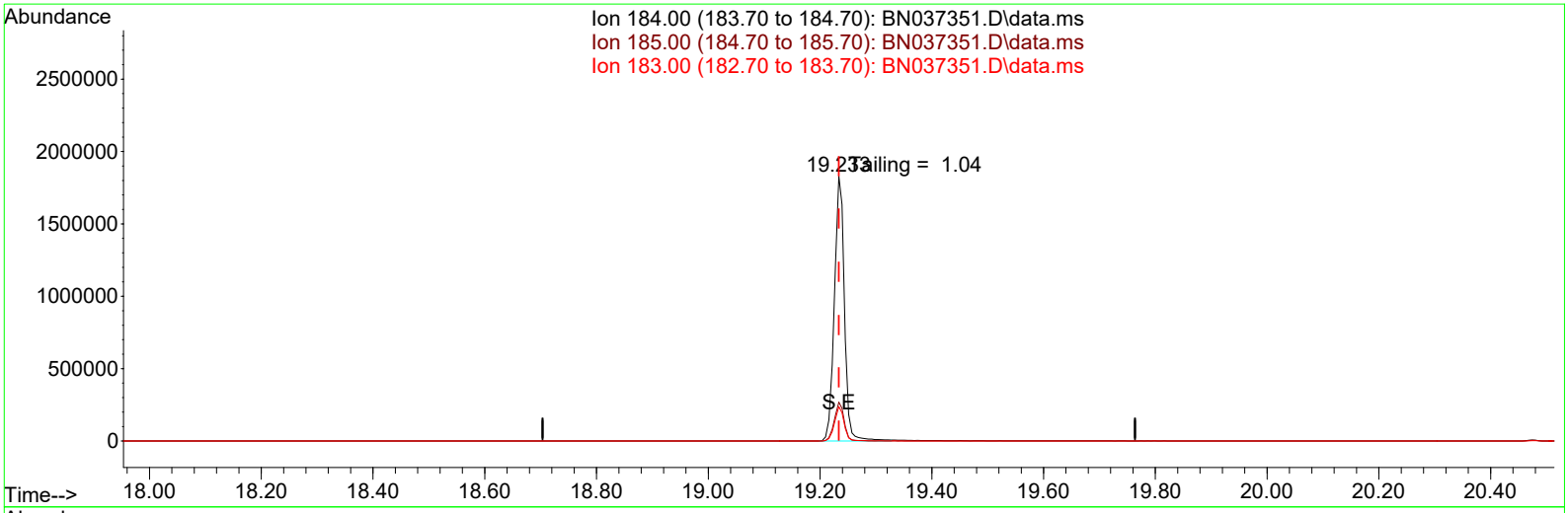
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.53
264.00	61.60	64.10
0.00	0.00	0.00

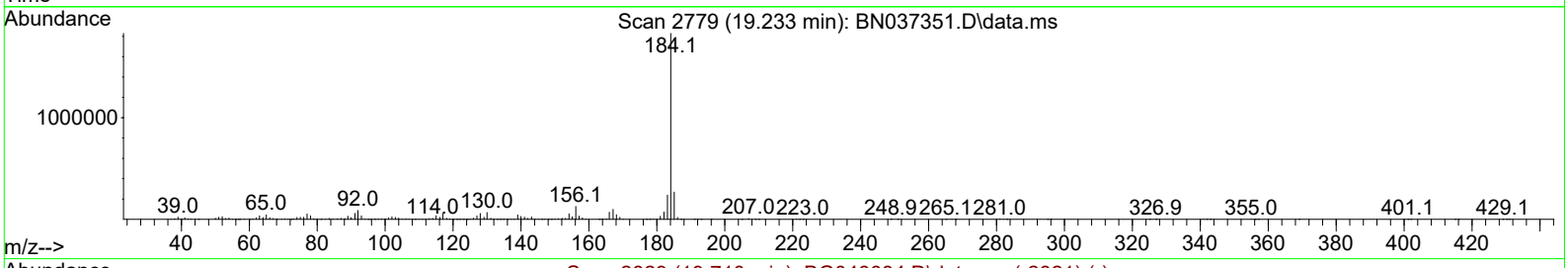
Sample Results: **BN037351.D**

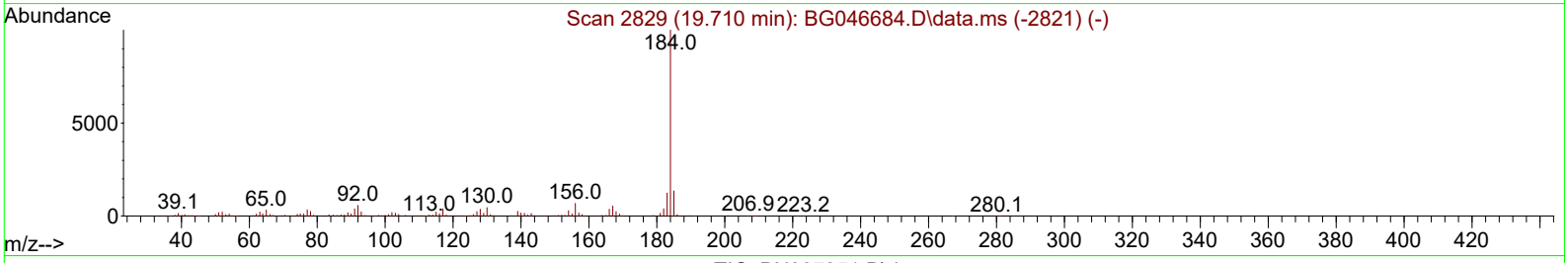
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 21 02:21:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration







TIC: BN037351.D\data.ms

(77) Benzidine

19.233min (0.000) 0.00 ng

response 2309913

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.66
183.00	13.20	13.00
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/21/2025	BNA_N	BN037351.D
Compound Name	**Response**	**Retention Time**
DDT	1600198	20.475
DDD	22591	20.257
DDE	1214	19.522
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
23805	1624003	1.47

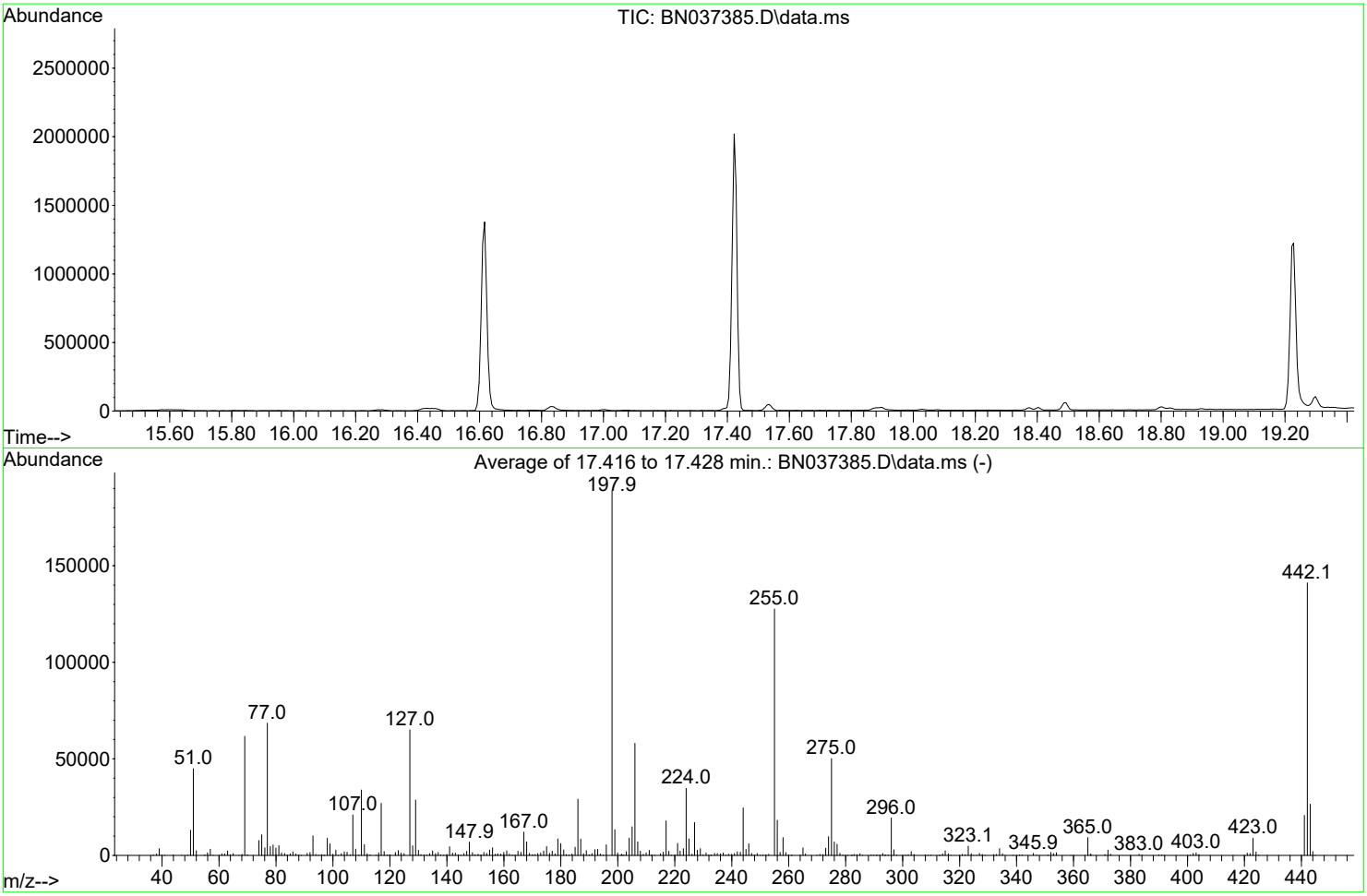
Sample Results: **BN037385.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
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-BN062625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 26 16:06:33 2025



AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2464

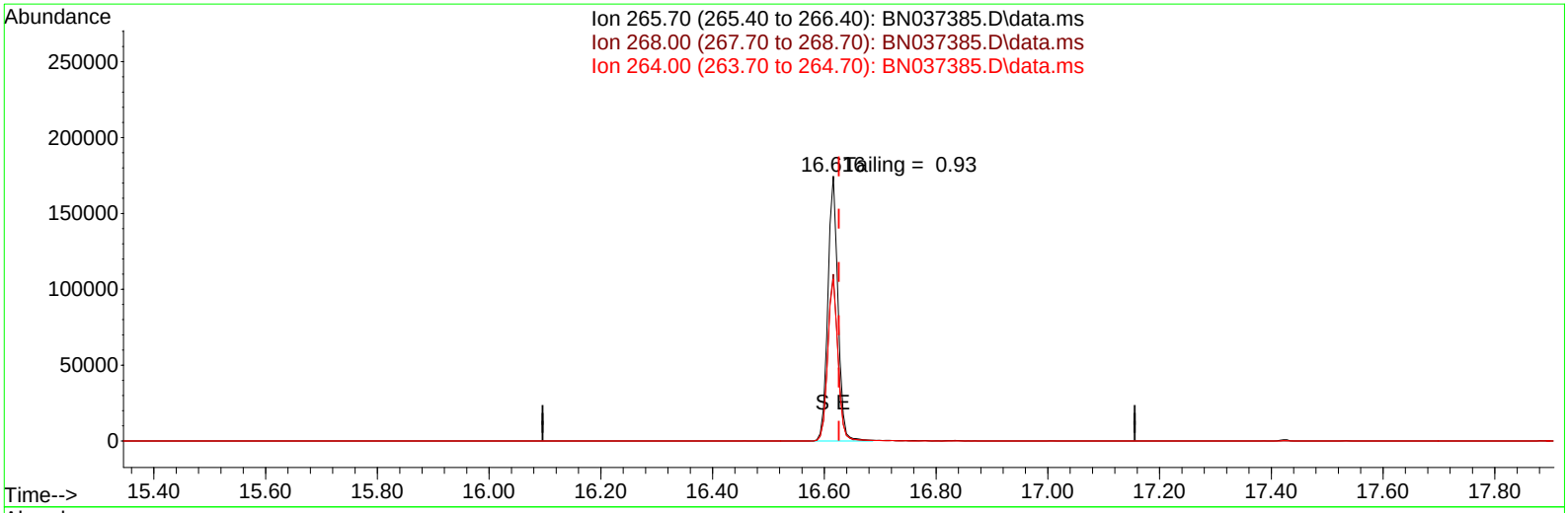
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.9	565	PASS
69	69	100	100	100.0	61709	PASS
70	69	0.00	2	0.6	395	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	188693	PASS
199	198	5	9	7.1	13336	PASS
365	198	1	100	4.9	9289	PASS
441	443	0.01	150	78.0	20689	PASS
442	442	100	100	100.0	141205	PASS
443	442	15	24	18.8	26534	PASS

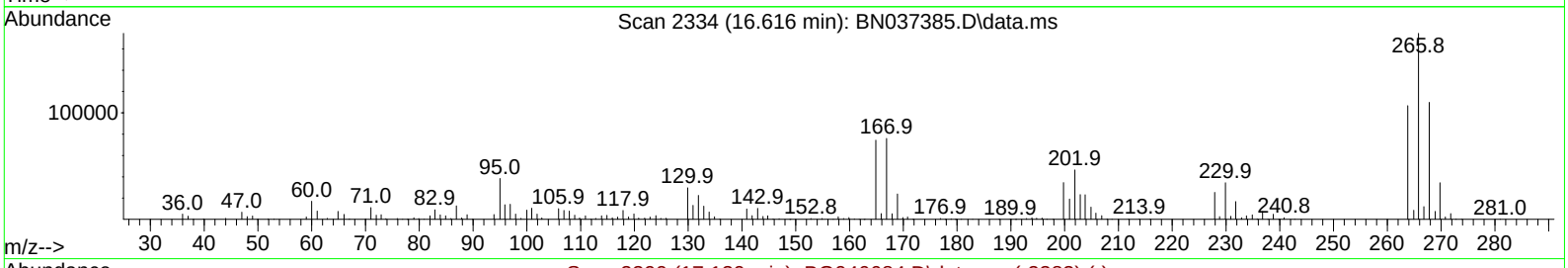
Sample Results: **BN037385.D**

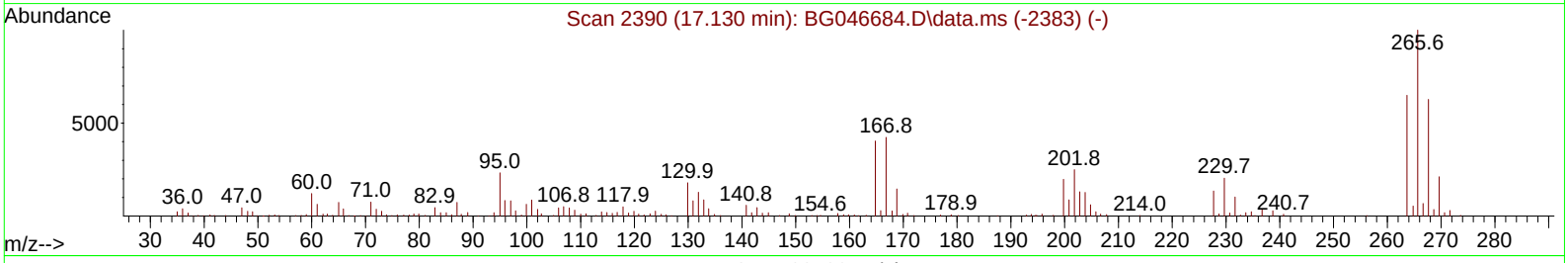
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 26 17:27:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration







TIC: BN037385.D\data.ms

(70) Pentachlorophenol (C)

16.616min (-0.010) 22827.65 ng

response 218916

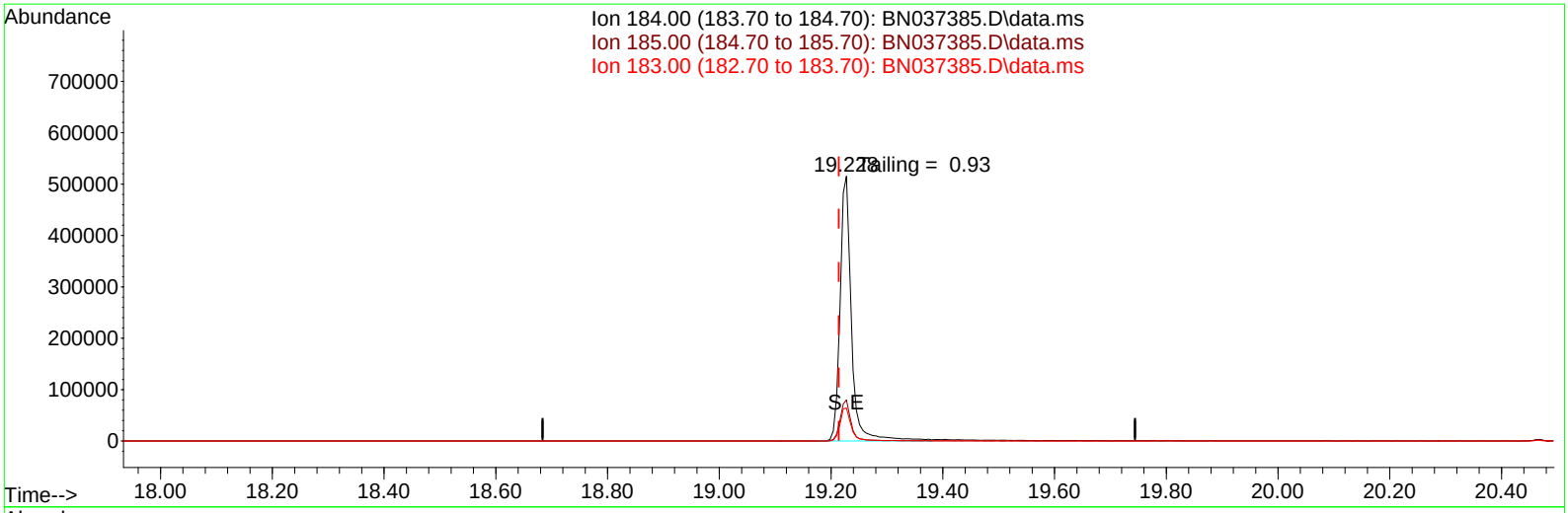
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.95
264.00	61.60	61.18
0.00	0.00	0.00

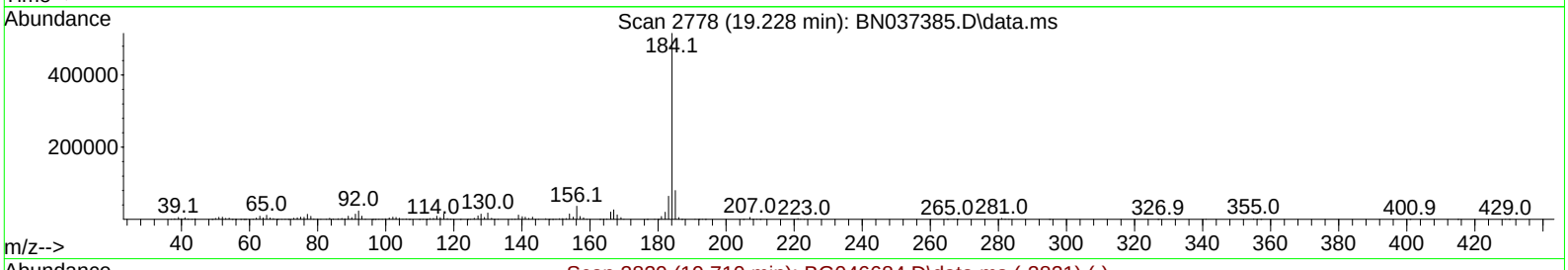
Sample Results: **BN037385.D**

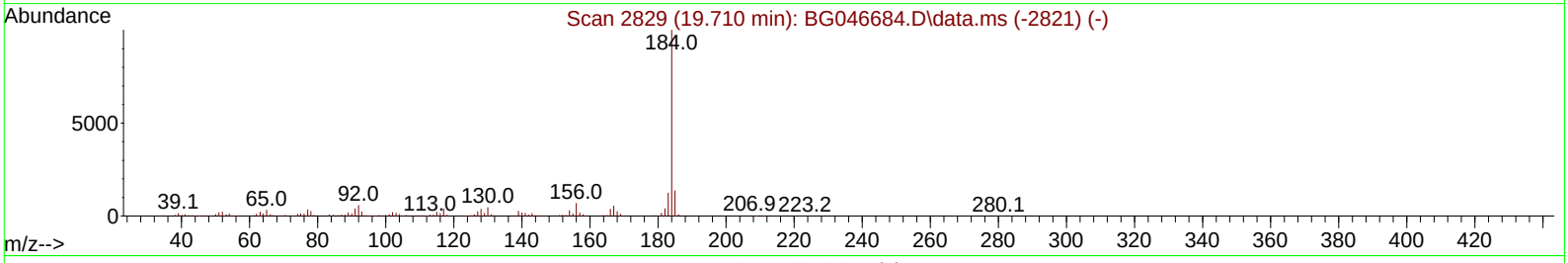
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 26 17:27:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration







TIC: BN037385.D\data.ms

(77) Benzidine

19.228min (+ 0.014) 0.00 ng

response 733495

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.54
183.00	13.20	12.50
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/26/2025	BNA_N	BN037385.D
Compound Name	**Response**	**Retention Time**
DDT	575237	20.469
DDD	9375	20.028
DDE	1379	19.516
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
10754	585991	1.84

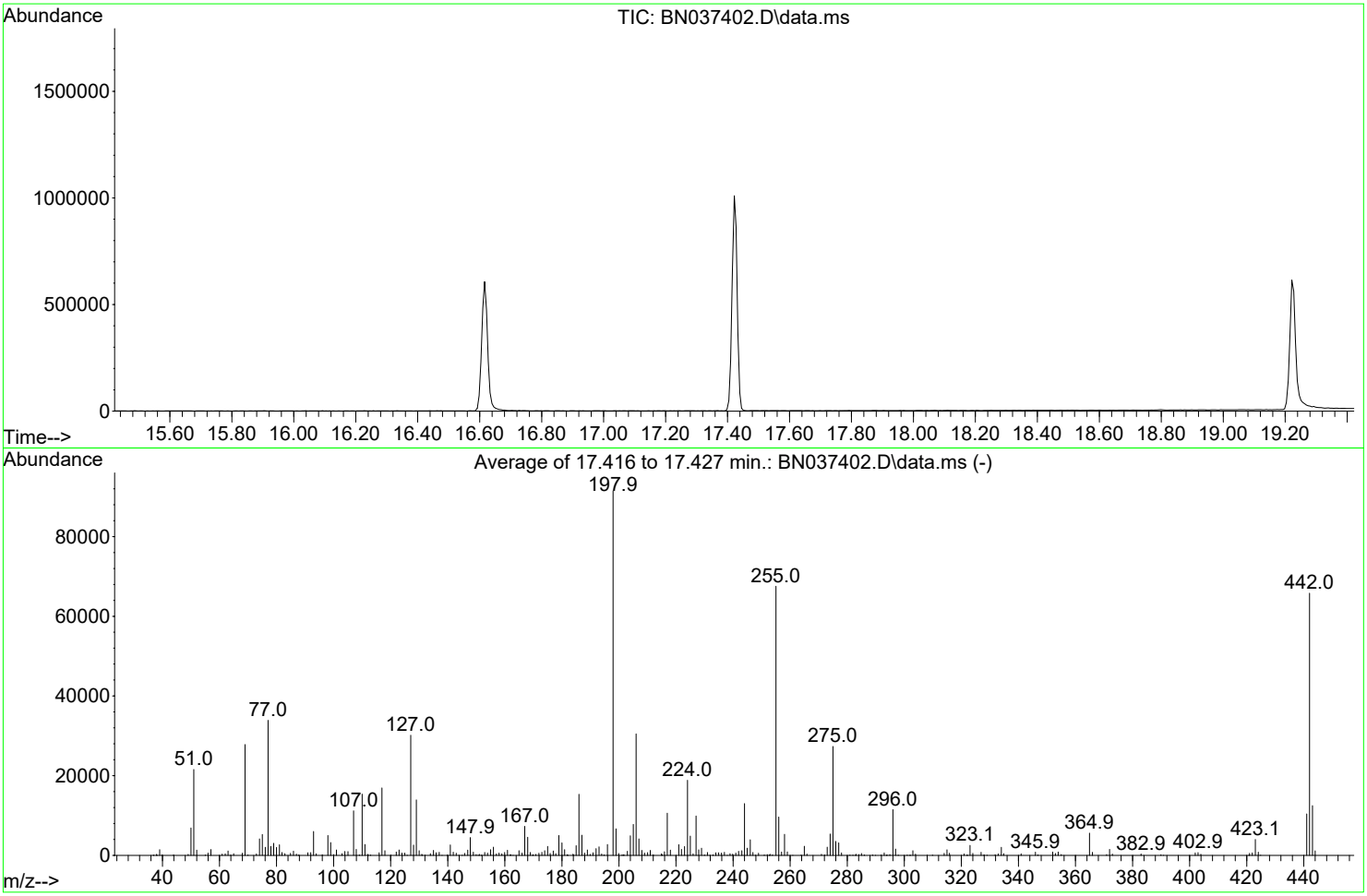
Sample Results: **BN037402.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037402.D
Acq On : 26 Jun 2025 20:19
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-BN062625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 26 16:06:33 2025



AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2464

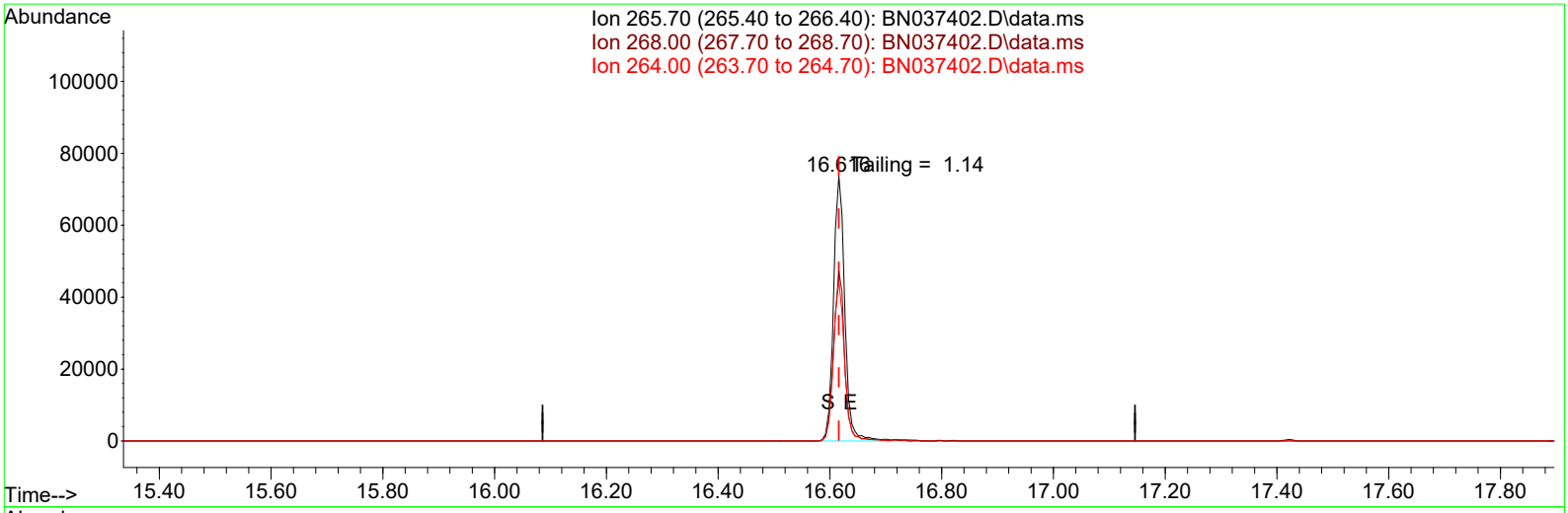
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	2.0	567	PASS
69	69	100	100	100.0	27835	PASS
70	69	0.00	2	0.5	131	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	91421	PASS
199	198	5	9	7.3	6679	PASS
365	198	1	100	6.1	5585	PASS
441	443	0.01	150	83.2	10396	PASS
442	442	100	100	100.0	65797	PASS
443	442	15	24	19.0	12501	PASS

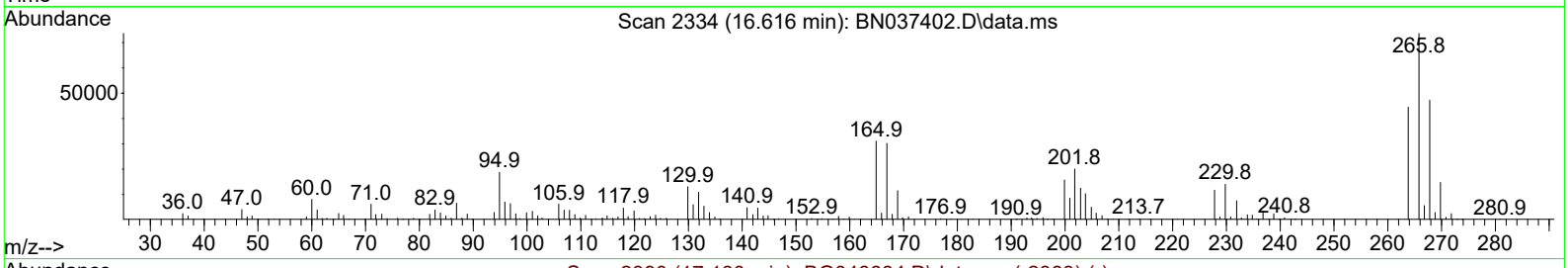
Sample Results: **BN037402.D**

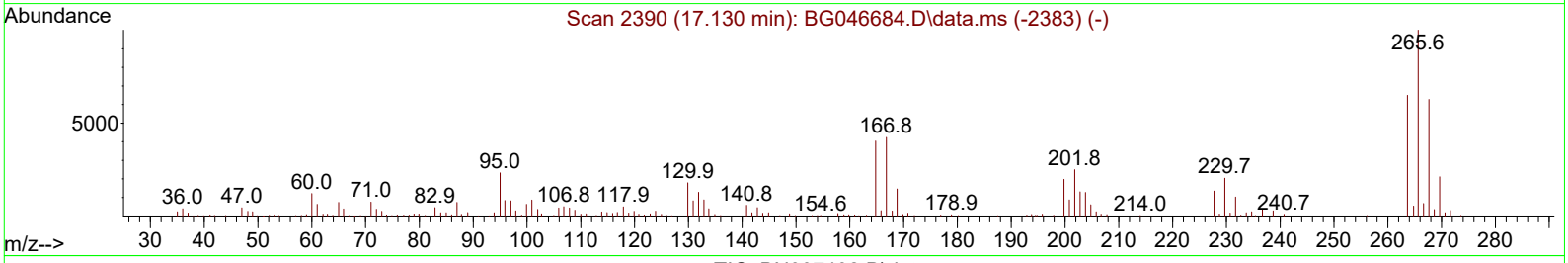
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037402.D
Acq On : 26 Jun 2025 20:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 27 04:09:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 27 04:09:23 2025
Response via : Initial Calibration







TIC: BN037402.D\data.ms

(70) Pentachlorophenol (C)

16.616min (0.000) 18260.25 ng

response 103034

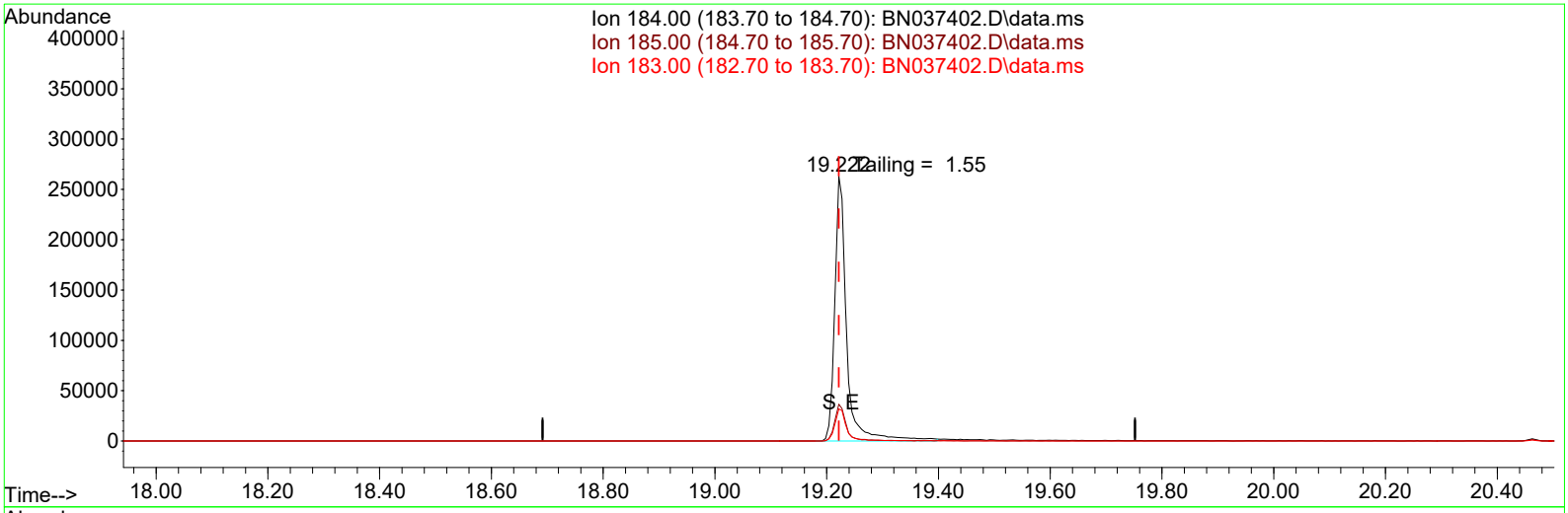
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.20
264.00	61.60	60.43
0.00	0.00	0.00

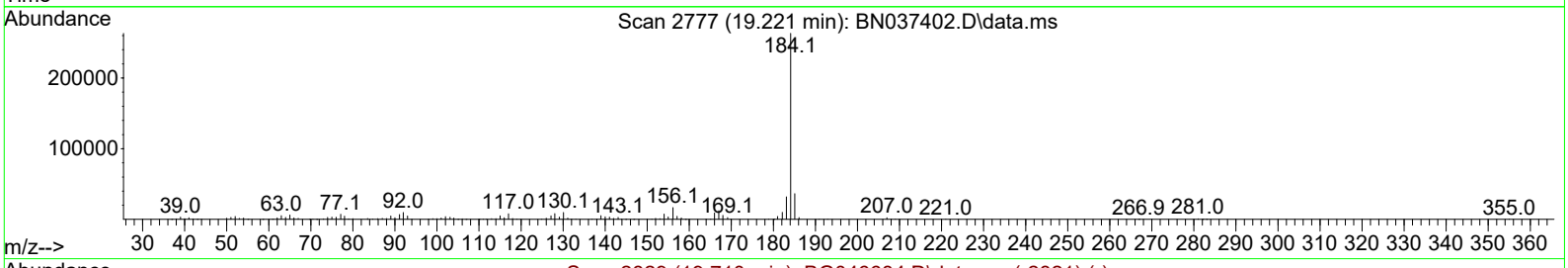
Sample Results: **BN037402.D**

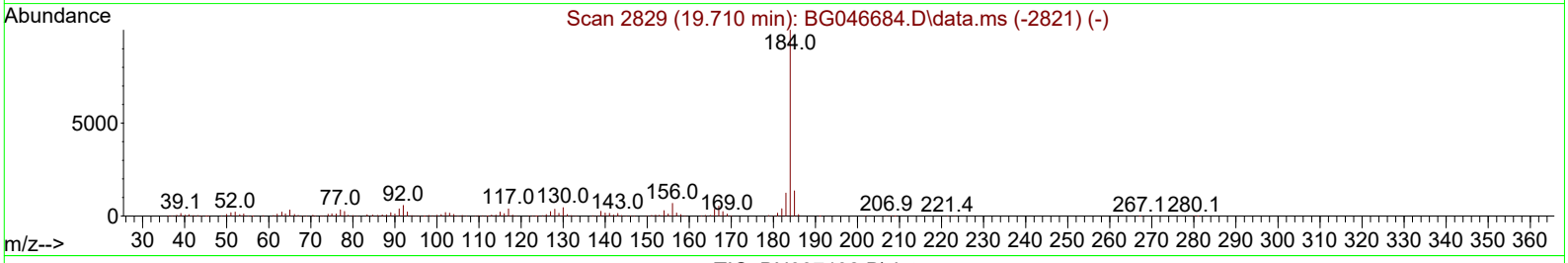
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037402.D
Acq On : 26 Jun 2025 20:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 27 04:09:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 27 04:09:23 2025
Response via : Initial Calibration







TIC: BN037402.D\data.ms

(77) Benzidine

19.221min (0.000) 0.00 ng

response 385080

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.89
183.00	13.20	12.12
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/26/2025	BNA_N	BN037402.D
Compound Name	**Response**	**Retention Time**
DDT	341583	20.463
DDD	4324	20.074
DDE	90	19.516
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
4414	345997	1.28

Raw Data: **BN037361.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168563BL	SDG No.:	Q2375
Lab Sample ID:	PB168563BL	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
BN037361.D	1	06/20/25 12:03	06/20/25 22:16	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.568				
1146-65-2	Naphthalene-d8	4050	10.351				
15067-26-2	Acenaphthene-d10	2740	14.224				
1517-22-2	Phenanthrene-d10	4860	16.984				
1719-03-5	Chrysene-d12	4290	21.171				
1520-96-3	Perylene-d12	3460	23.357				

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\BN062125\
Data File : BN037361.D
Acq On : 20 Jun 2025 22:16
Operator : RC/JU
Sample : PB168563BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Quant Time: Jun 20 23:51:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

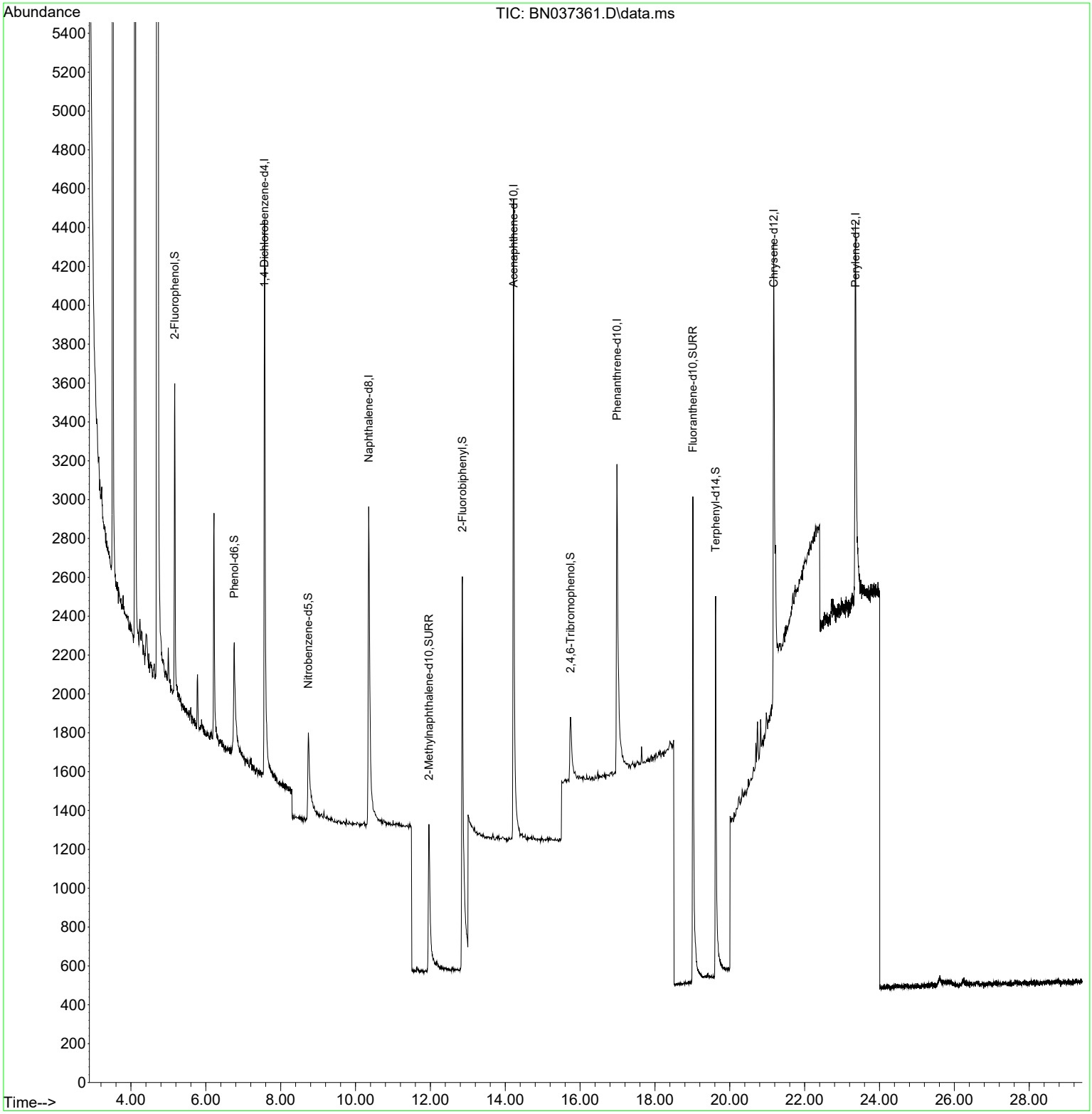
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1968	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	4045	0.400	ng	0.01
13) Acenaphthene-d10	14.224	164	2736	0.400	ng	0.01
19) Phenanthrene-d10	16.984	188	4864	0.400	ng	0.01
29) Chrysene-d12	21.171	240	4288	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	3457	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1419	0.361	ng	0.00
5) Phenol-d6	6.759	99	1185	0.293	ng	0.00
8) Nitrobenzene-d5	8.739	82	978	0.299	ng	0.02
11) 2-Methylnaphthalene-d10	11.960	152	2116	0.323	ng	0.02
14) 2,4,6-Tribromophenol	15.742	330	469	0.292	ng	0.02
15) 2-Fluorobiphenyl	12.853	172	3920	0.326	ng	0.02
27) Fluoranthene-d10	19.012	212	5207	0.373	ng	0.00
31) Terphenyl-d14	19.621	244	3648	0.373	ng	0.00
Target Compounds						Qvalue

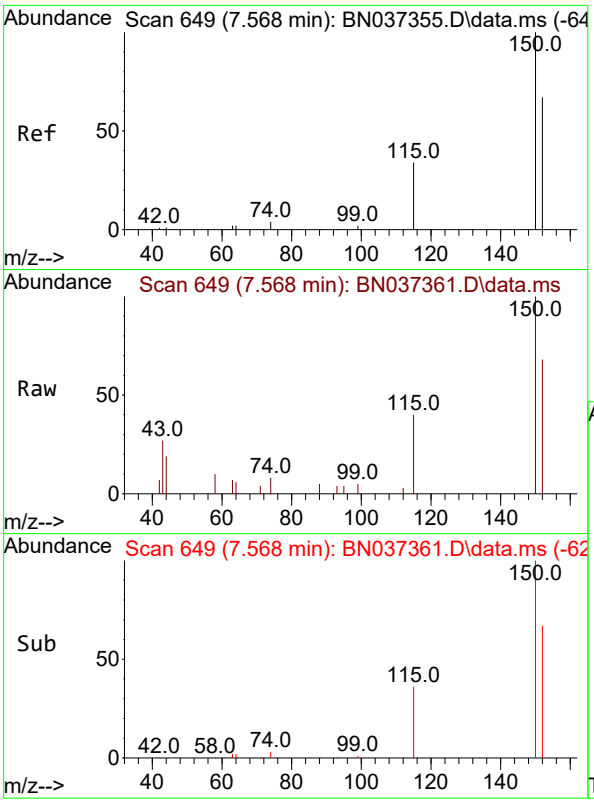
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037361.D
Acq On : 20 Jun 2025 22:16
Operator : RC/JU
Sample : PB168563BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Quant Time: Jun 20 23:51:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



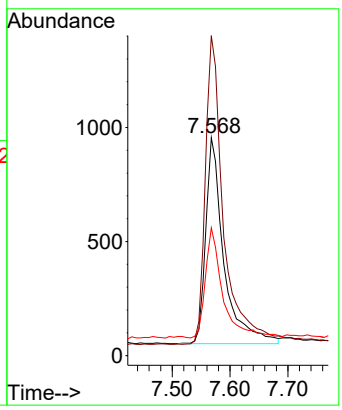


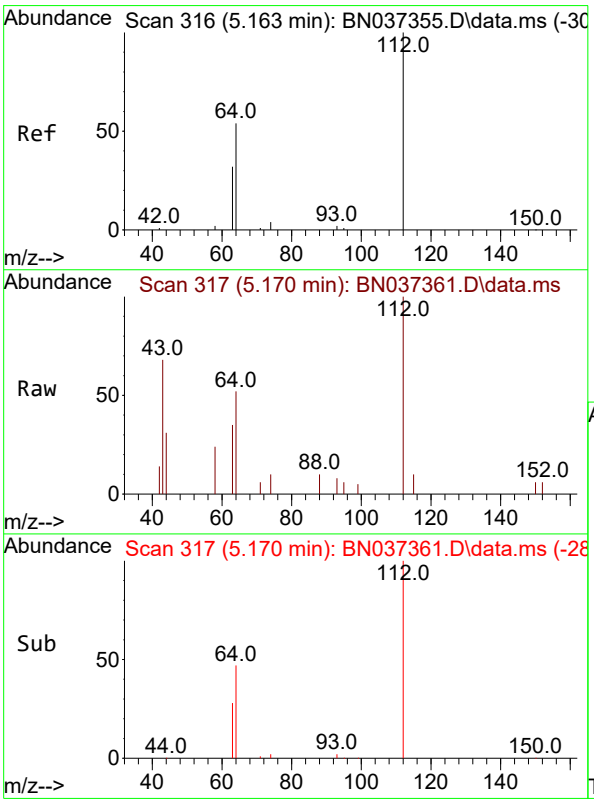
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion:152 Resp: 1968

Ion	Ratio	Lower	Upper
152	100		
150	146.8	112.7	169.1
115	58.6	45.9	68.9

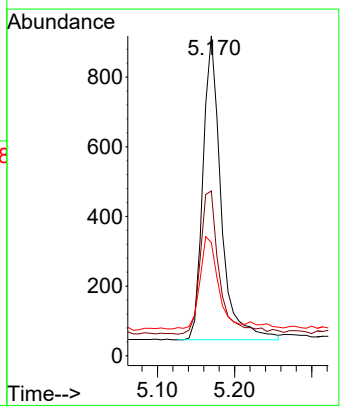


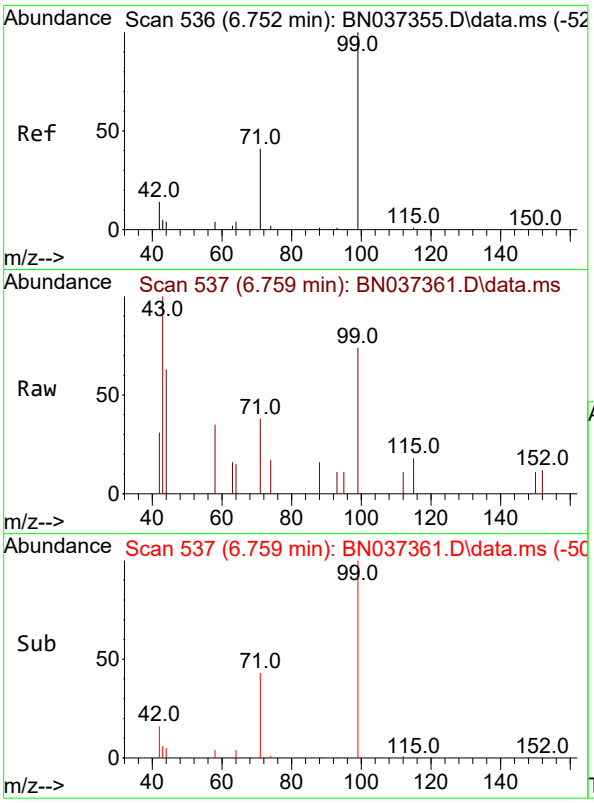


#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:112 Resp: 1419

Ion	Ratio	Lower	Upper
112	100		
64	50.4	38.7	58.1
63	30.7	26.4	39.6



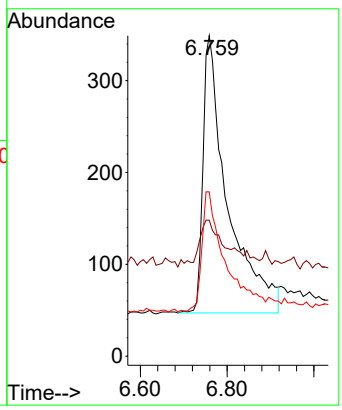


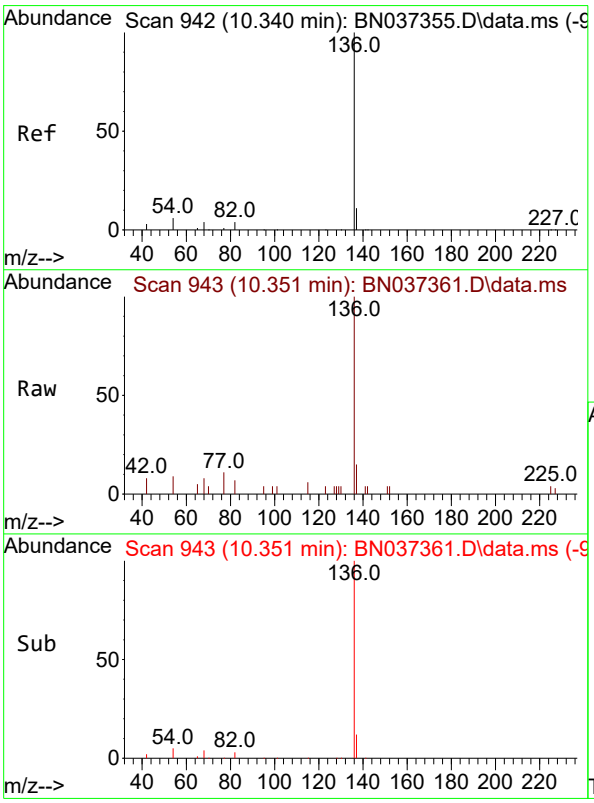
#5
Phenol-d6
Concen: 0.293 ng
RT: 6.759 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion: 99 Resp: 1185

Ion	Ratio	Lower	Upper
99	100		
42	19.7	19.8	29.8#
71	40.8	42.6	64.0#

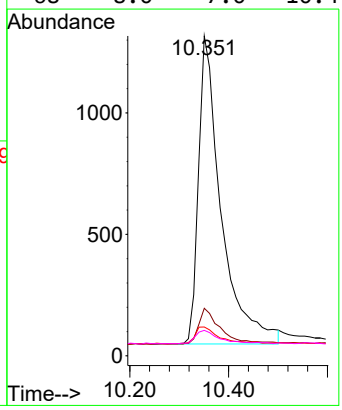


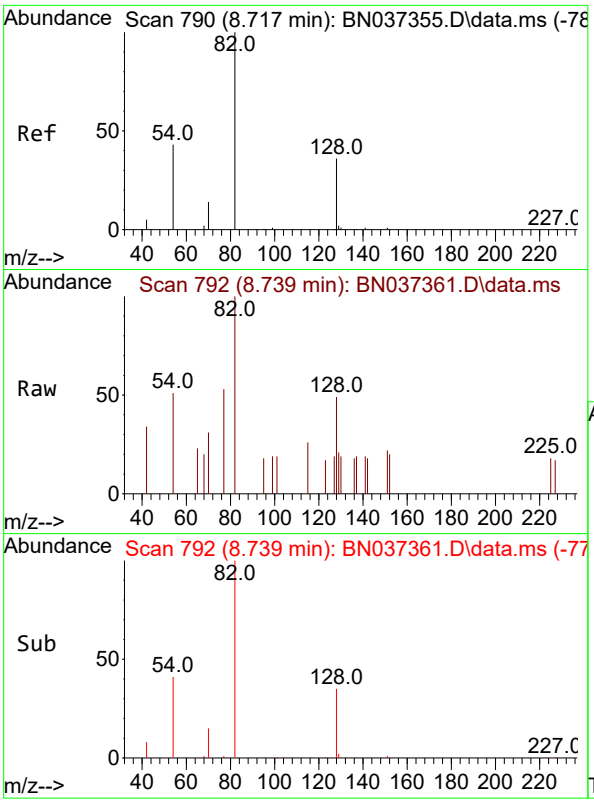


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.010 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:136 Resp: 4045

Ion	Ratio	Lower	Upper
136	100		
137	14.9	12.2	18.2
54	9.0	8.8	13.2
68	8.0	7.0	10.4



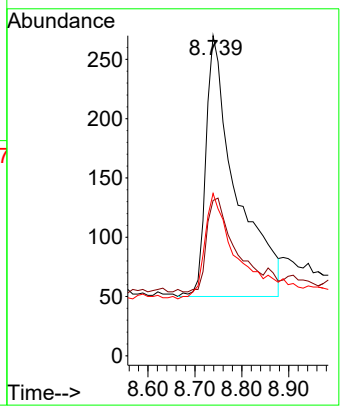


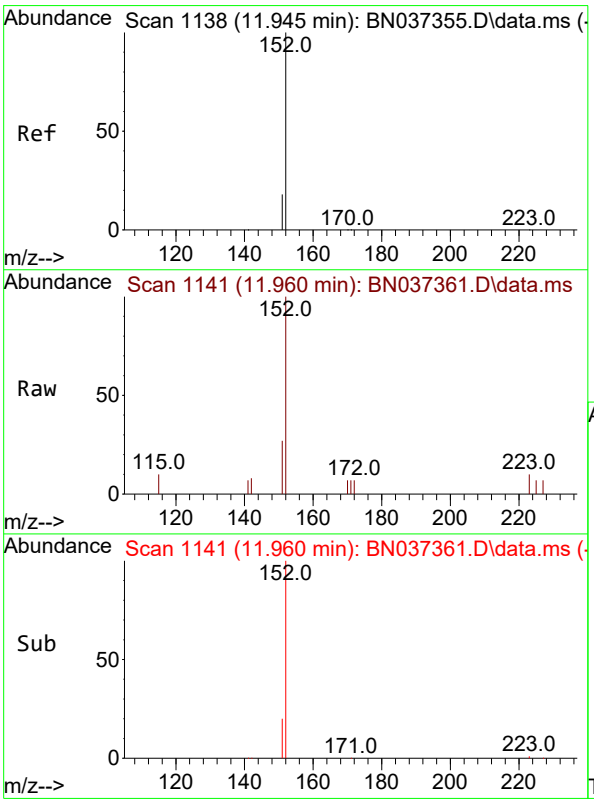
#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.739 min Scan# 7
Delta R.T. 0.021 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion: 82 Resp: 978

Ion	Ratio	Lower	Upper
82	100		
128	48.5	42.5	63.7
54	50.7	43.2	64.8

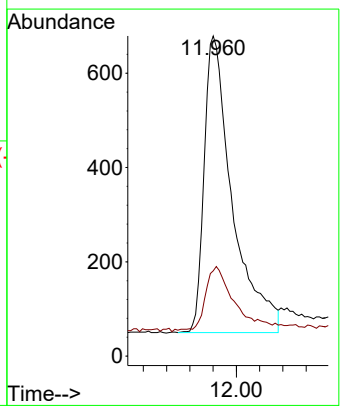


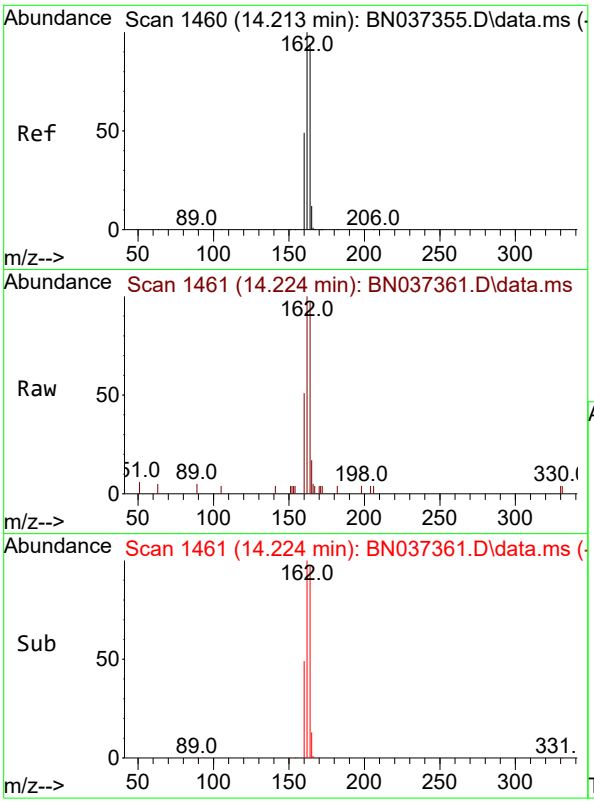


#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.015 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:152 Resp: 2116

Ion	Ratio	Lower	Upper
152	100		
151	23.0	17.4	26.0



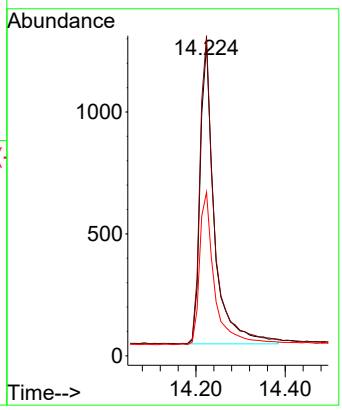


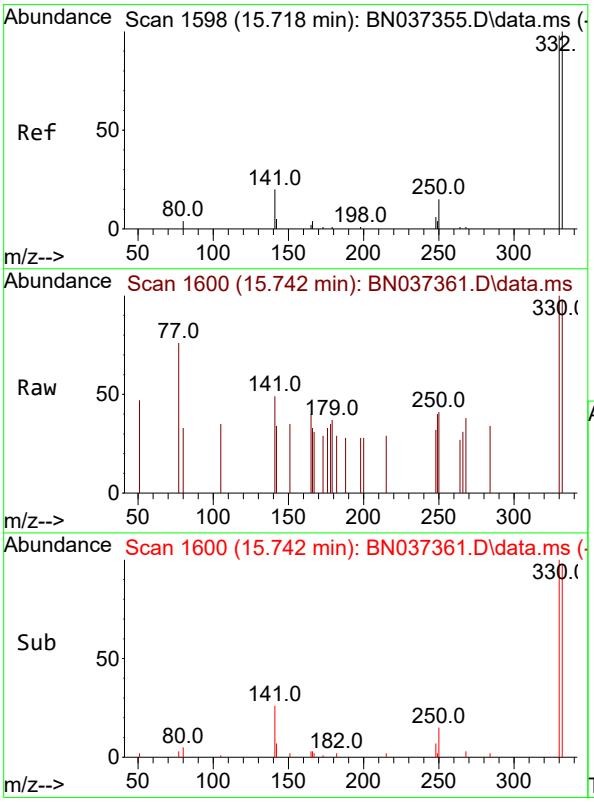
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion:164 Resp: 2736

Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.5	122.3
160	52.5	43.0	64.4

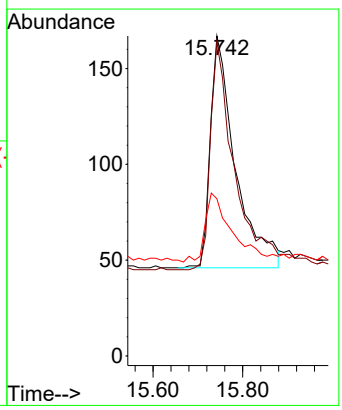


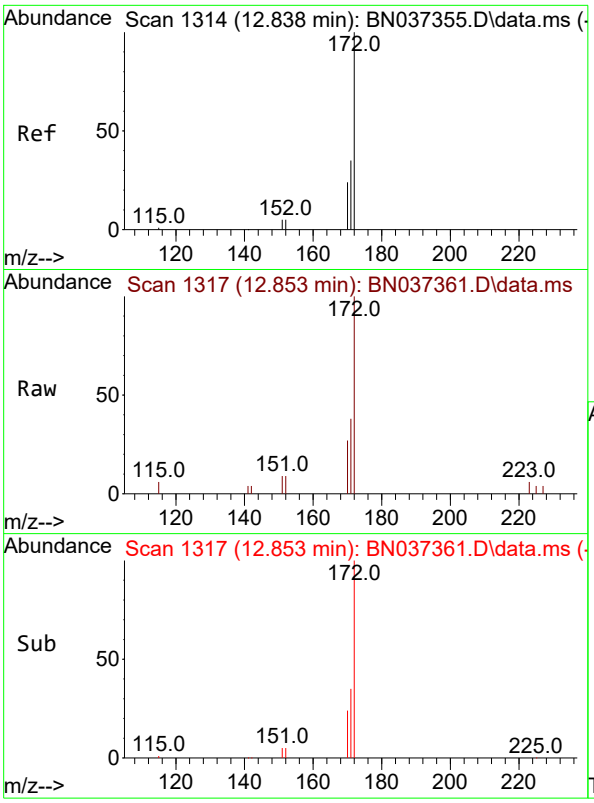


#14
2,4,6-Tribromophenol
Concen: 0.292 ng
RT: 15.742 min Scan# 1600
Delta R.T. 0.025 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:330 Resp: 469

Ion	Ratio	Lower	Upper
330	100		
332	95.1	78.4	117.6
141	31.3	24.4	36.6



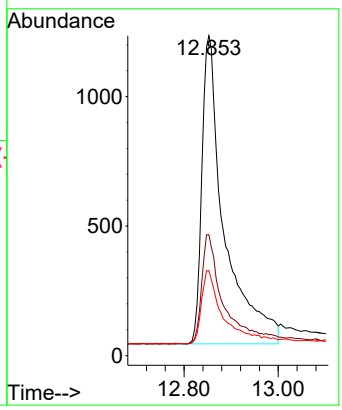


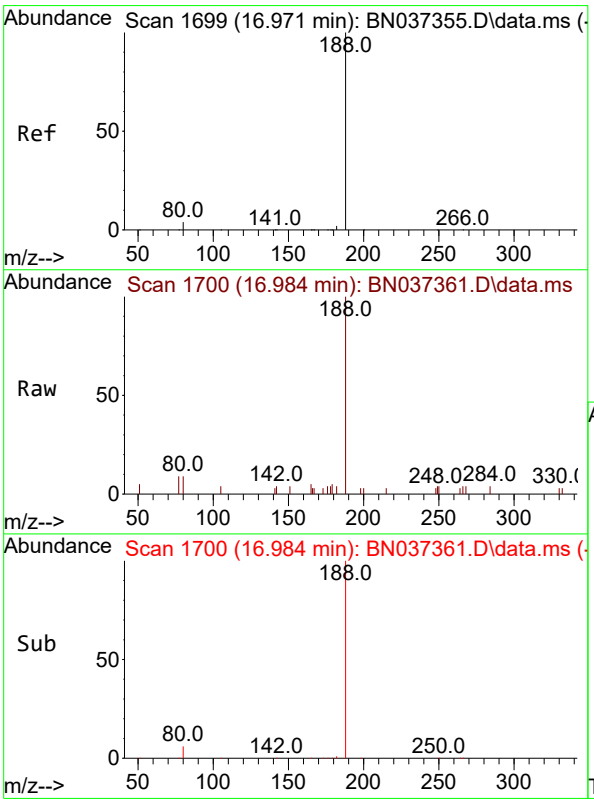
#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 12.853 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion:172 Resp: 3920

Ion	Ratio	Lower	Upper
172	100		
171	37.8	30.8	46.2
170	26.6	21.9	32.9

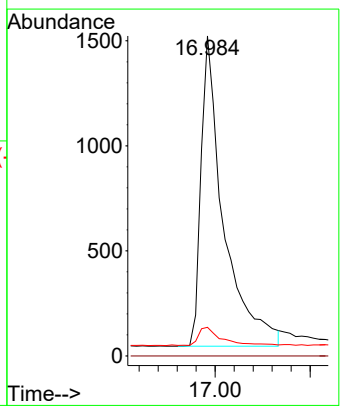


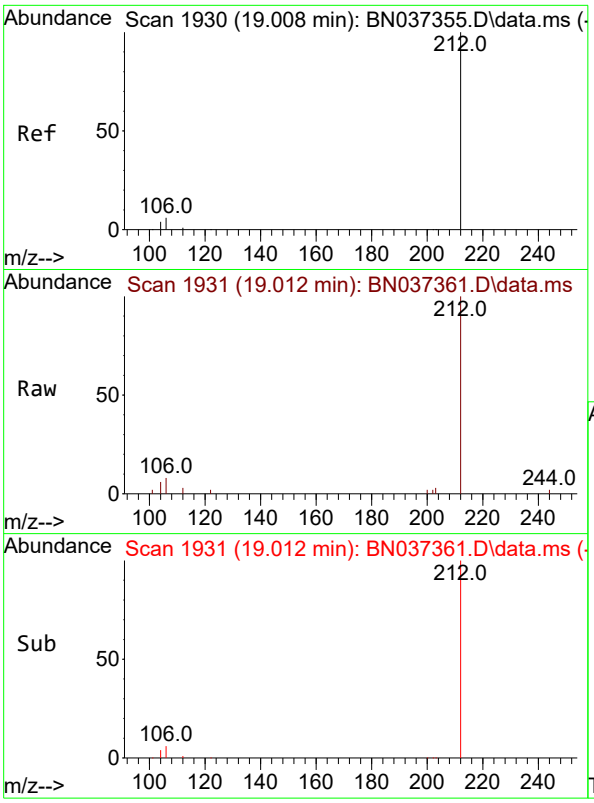


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.012 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:188 Resp: 4864

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	6.2	9.2



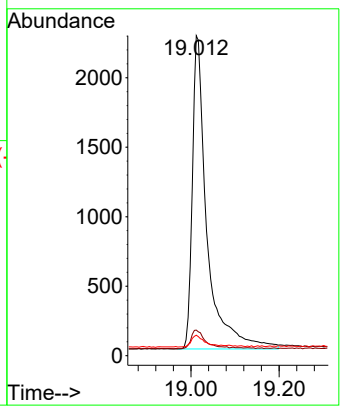


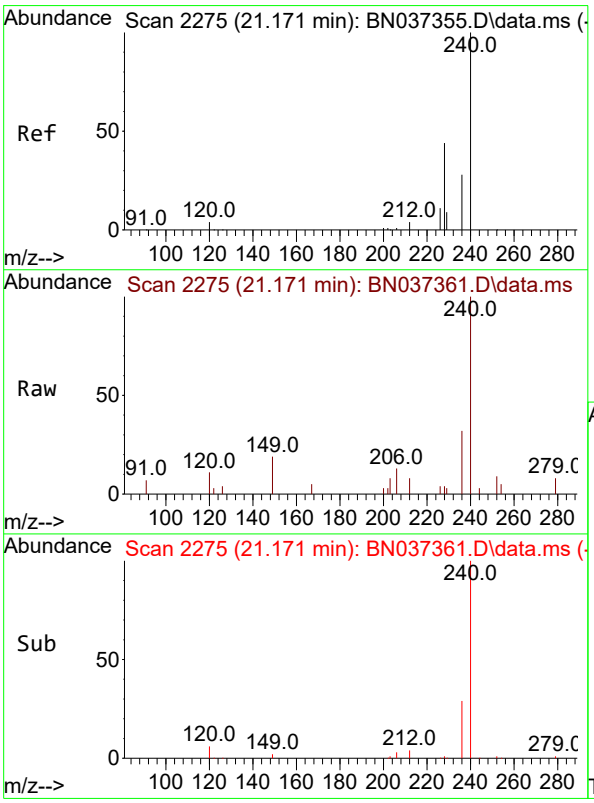
#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.012 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion:212 Resp: 5207

Ion	Ratio	Lower	Upper
212	100		
106	5.8	3.0	4.4#
104	3.4	2.0	3.0#

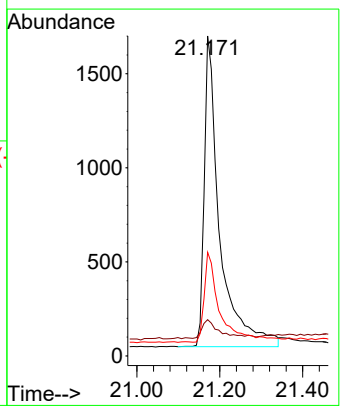


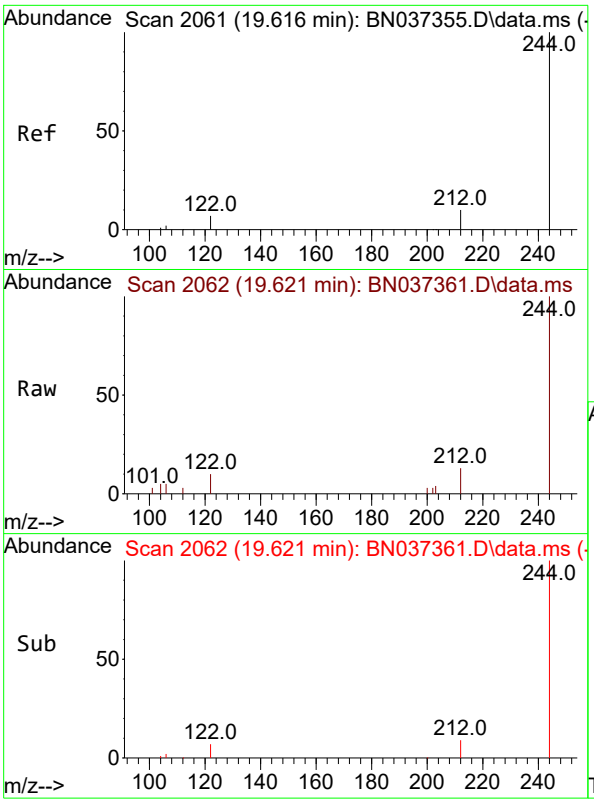


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:240 Resp: 4288

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.5	11.3#
236	32.4	24.9	37.3



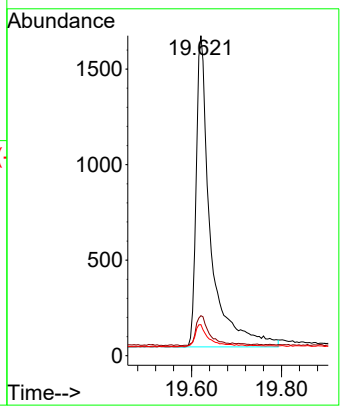


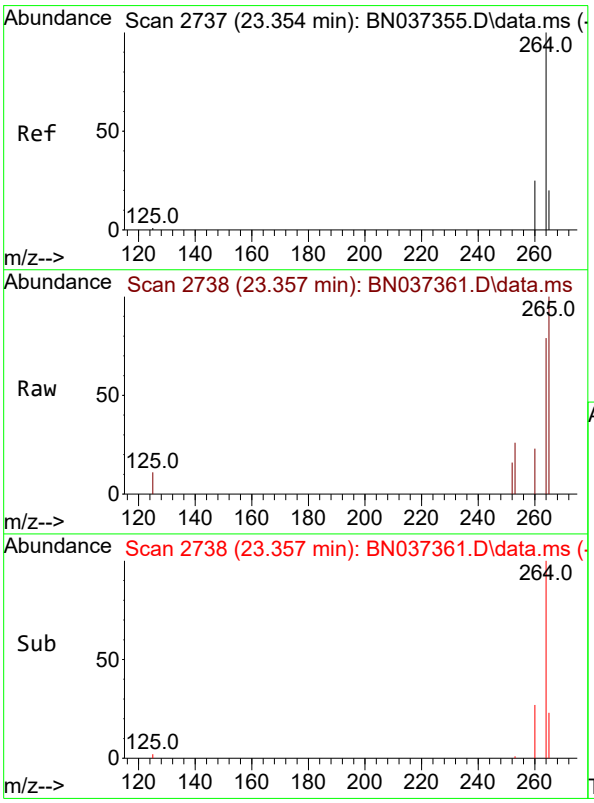
#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.621 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion:244 Resp: 3648

Ion	Ratio	Lower	Upper
244	100		
212	12.5	11.1	16.7
122	9.7	7.2	10.8

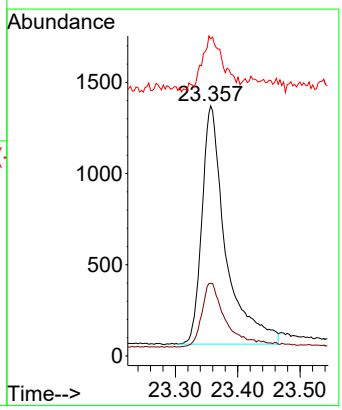




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. 0.003 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:264 Resp: 3457

Ion	Ratio	Lower	Upper
264	100		
260	29.0	21.4	32.2
265	126.8	71.4	107.0#



Raw Data: **BN037363.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168563BS	SDG No.:	Q2375
Lab Sample ID:	PB168563BS	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
BN037363.D	1	06/20/25 12:03	06/20/25 23:28	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1960	7.568				
1146-65-2	Naphthalene-d8	4200	10.34				
15067-26-2	Acenaphthene-d10	2590	14.213				
1517-22-2	Phenanthrene-d10	4830	16.971				
1719-03-5	Chrysene-d12	3880	21.171				
1520-96-3	Perylene-d12	2750	23.351				

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\BN062125\
Data File : BN037363.D
Acq On : 20 Jun 2025 23:28
Operator : RC/JU
Sample : PB168563BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Quant Time: Jun 20 23:54:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

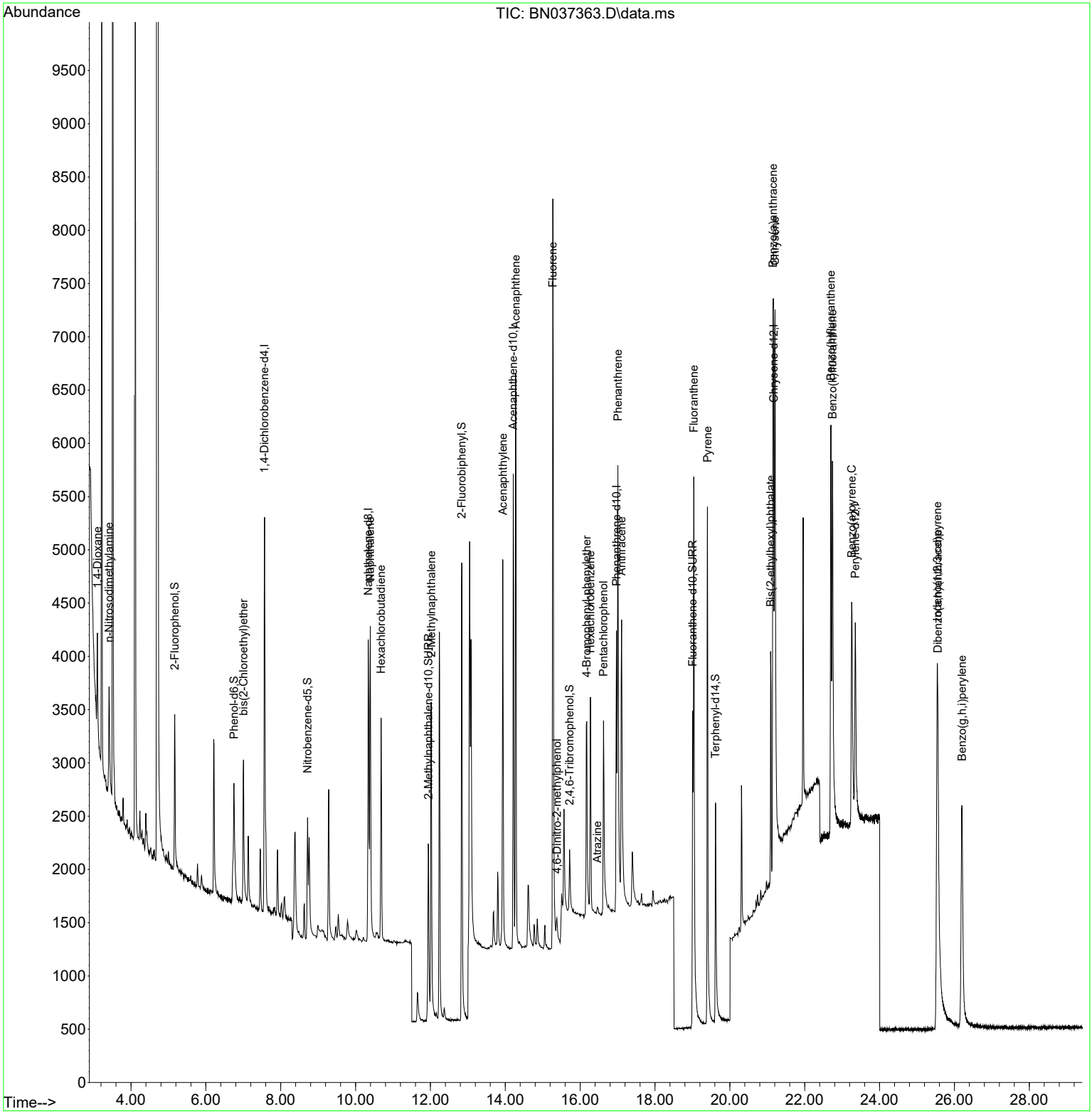
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	1960	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4204	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	2586	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	4830	0.400	ng		0.00
29) Chrysene-d12	21.171	240	3875	0.400	ng		0.00
35) Perylene-d12	23.351	264	2749	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.170	112	1356	0.346	ng		0.00
5) Phenol-d6	6.752	99	1369	0.339	ng		0.00
8) Nitrobenzene-d5	8.717	82	1246	0.367	ng		0.00
11) 2-Methylnaphthalene-d10	11.945	152	3338	0.490	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	509	0.336	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	4401	0.387	ng		0.00
27) Fluoranthene-d10	19.007	212	4783	0.345	ng		0.00
31) Terphenyl-d14	19.616	244	3479	0.394	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	631	0.317	ng	#	32
3) n-Nitrosodimethylamine	3.415	42	717	0.392	ng	#	82
6) bis(2-Chloroethyl)ether	7.004	93	1334	0.373	ng		97
9) Naphthalene	10.394	128	4124	0.372	ng	#	90
10) Hexachlorobutadiene	10.682	225	1728	0.394	ng	#	99
12) 2-Methylnaphthalene	12.021	142	2530	0.327	ng		94
16) Acenaphthylene	13.935	152	4145	0.381	ng		98
17) Acenaphthene	14.277	154	2614	0.365	ng		99
18) Fluorene	15.271	166	3566	0.355	ng		99
20) 4,6-Dinitro-2-methylph...	15.378	198	387	0.333	ng		89
21) 4-Bromophenyl-phenylether	16.177	248	1258	0.366	ng		98
22) Hexachlorobenzene	16.276	284	1521	0.406	ng		99
23) Atrazine	16.462	200	89	0.032	ng	#	63
24) Pentachlorophenol	16.624	266	1322	0.709	ng		95
25) Phenanthrene	17.009	178	5063	0.362	ng		99
26) Anthracene	17.108	178	4541	0.352	ng		98
28) Fluoranthene	19.035	202	6071	0.343	ng	#	99
30) Pyrene	19.402	202	5679	0.361	ng		99
32) Benzo(a)anthracene	21.153	228	4660	0.366	ng		99
33) Chrysene	21.206	228	6398	0.414	ng		98
34) Bis(2-ethylhexyl)phtha...	21.090	149	1970	0.377	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	6014	0.488	ng	#	92
37) Benzo(b)fluoranthene	22.699	252	5246	0.519	ng	#	98
38) Benzo(k)fluoranthene	22.743	252	5910	0.539	ng		99
39) Benzo(a)pyrene	23.254	252	4418	0.487	ng	#	96
40) Dibenzo(a,h)anthracene	25.555	278	4975	0.537	ng		95
41) Benzo(g,h,i)perylene	26.201	276	5107	0.464	ng	#	98

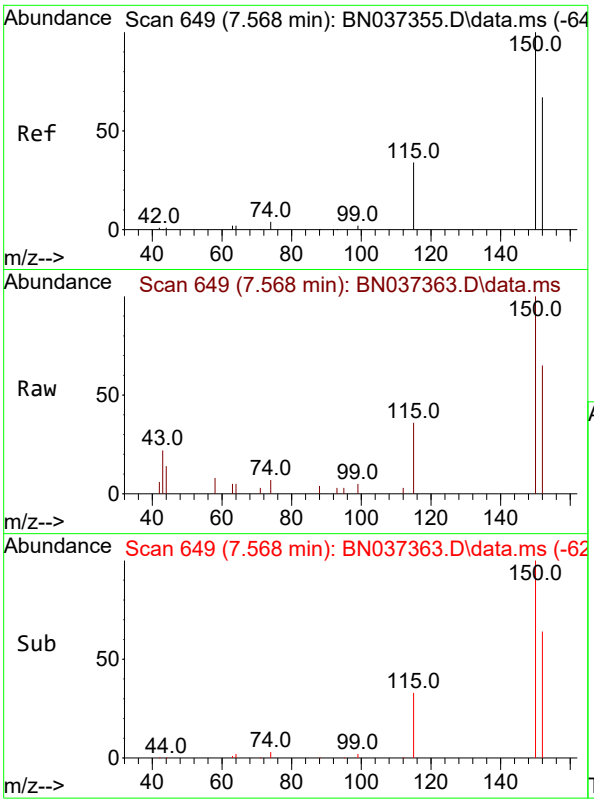
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037363.D
Acq On : 20 Jun 2025 23:28
Operator : RC/JU
Sample : PB168563BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Quant Time: Jun 20 23:54:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



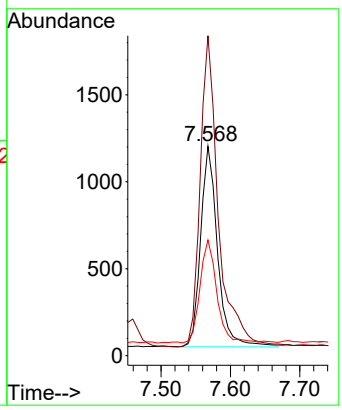


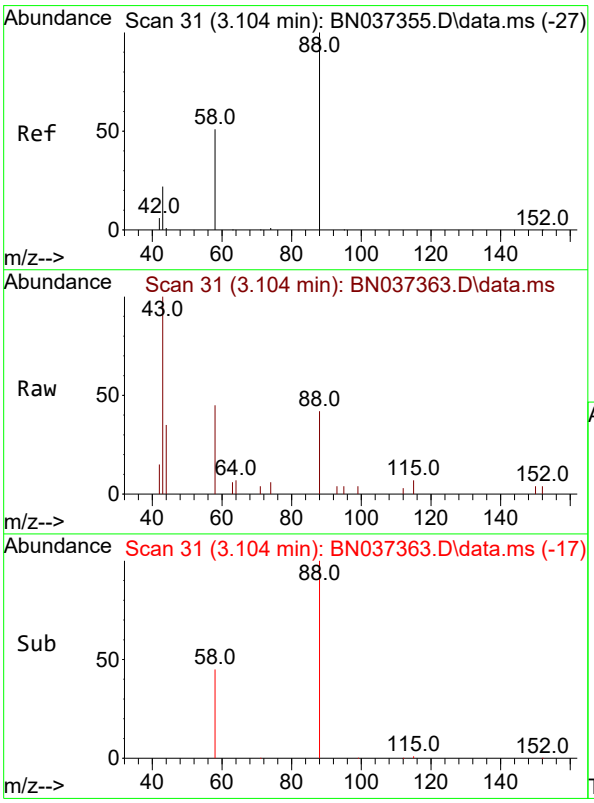
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:152 Resp: 1960

Ion	Ratio	Lower	Upper
152	100		
150	152.8	112.7	169.1
115	55.2	45.9	68.9

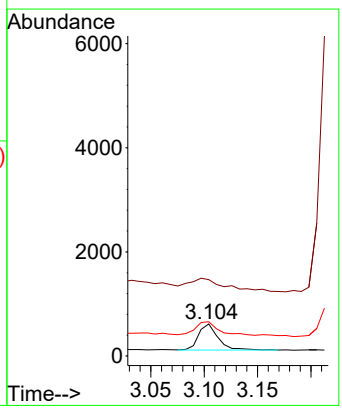


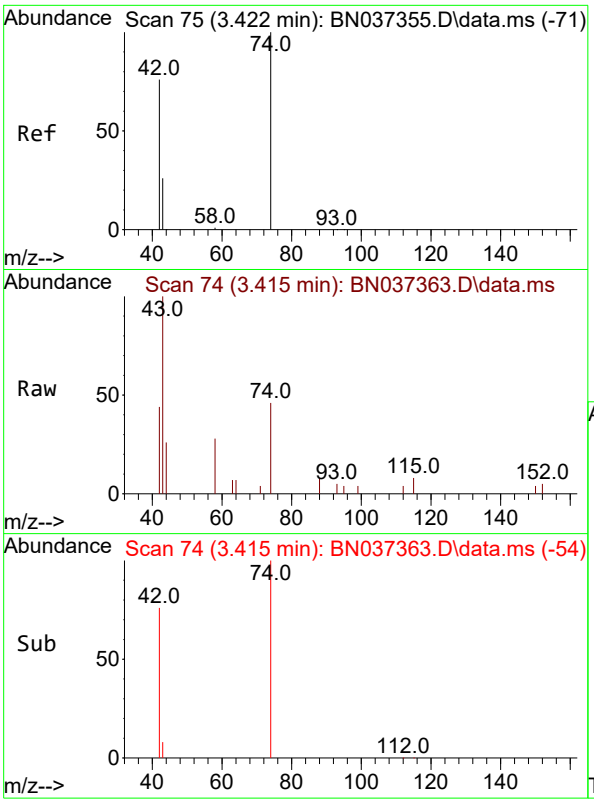


#2
1,4-Dioxane
Concen: 0.317 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion: 88 Resp: 631

Ion	Ratio	Lower	Upper
88	100		
43	96.4	21.0	31.6#
58	68.0	38.0	57.0#



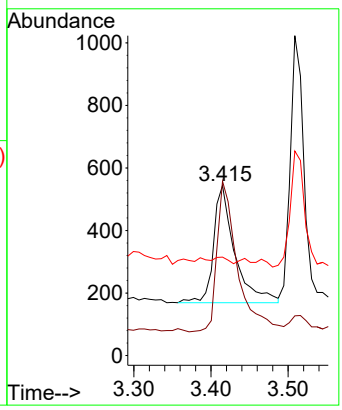


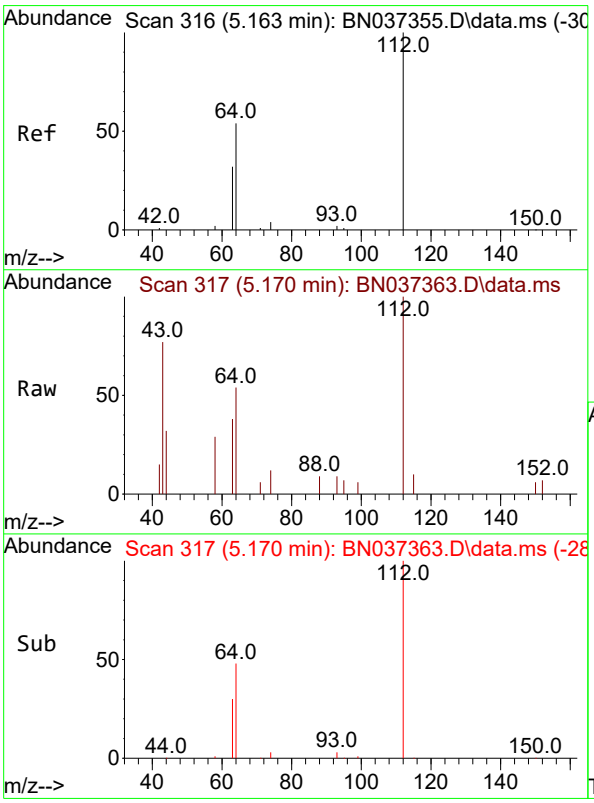
#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion: 42 Resp: 717

Ion	Ratio	Lower	Upper
42	100		
74	124.4	84.3	126.5
44	3.2	5.0	7.4#

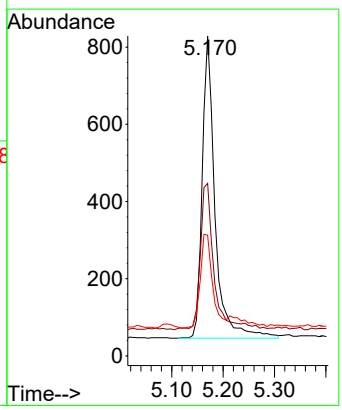


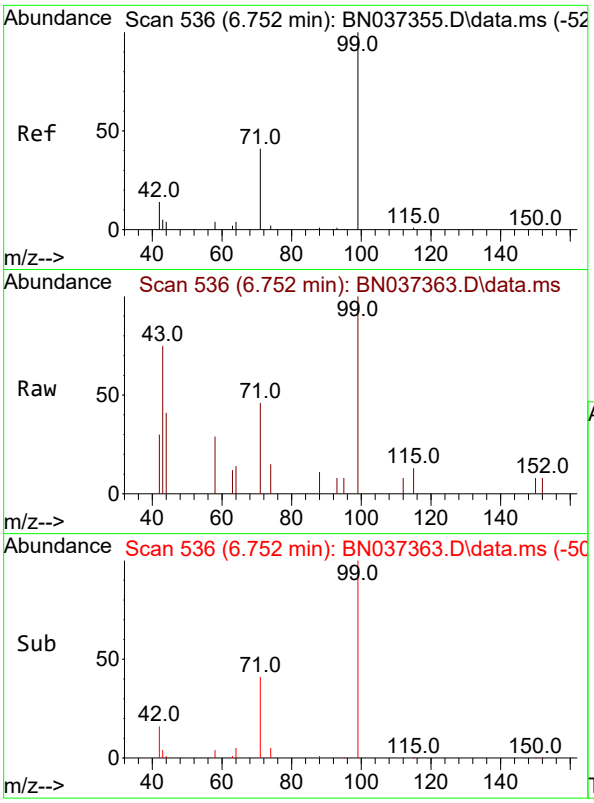


#4
2-Fluorophenol
Concen: 0.346 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:112 Resp: 1356

Ion	Ratio	Lower	Upper
112	100		
64	51.6	38.7	58.1
63	30.4	26.4	39.6



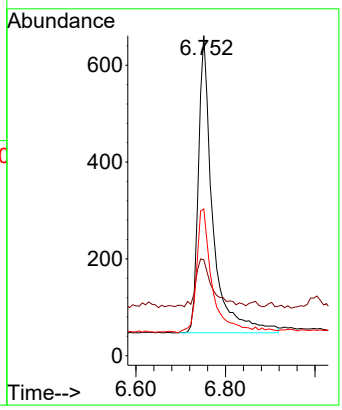


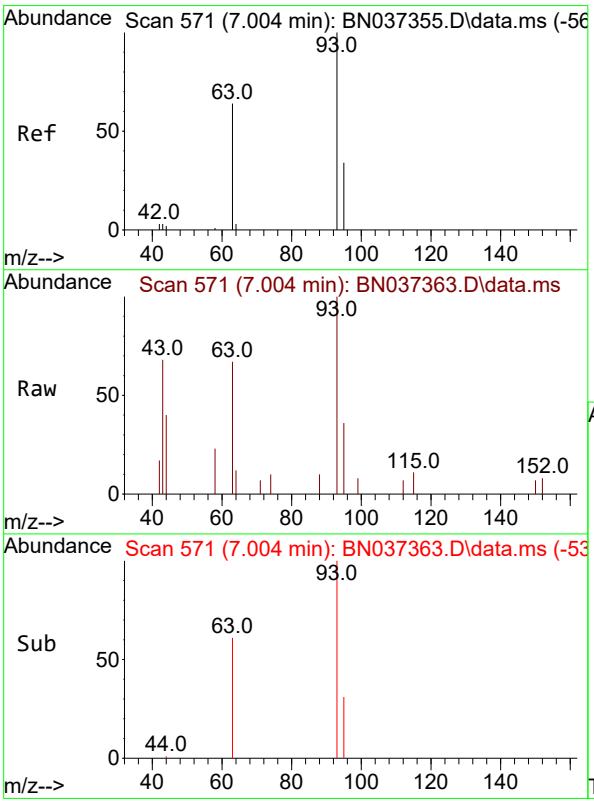
#5
Phenol-d6
Concen: 0.339 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion: 99 Resp: 1369

Ion	Ratio	Lower	Upper
99	100		
42	19.0	19.8	29.8#
71	44.8	42.6	64.0

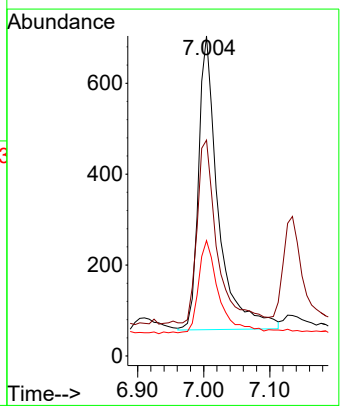


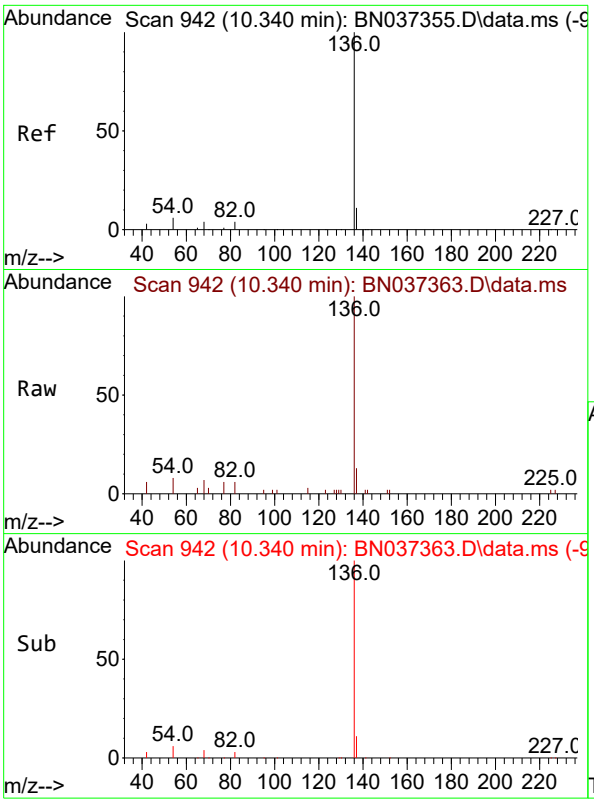


#6
bis(2-Chloroethyl)ether
Concen: 0.373 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion: 93 Resp: 1334

Ion	Ratio	Lower	Upper
93	100		
63	63.3	53.2	79.8
95	34.0	27.3	40.9



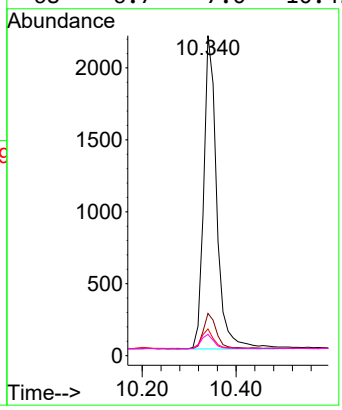


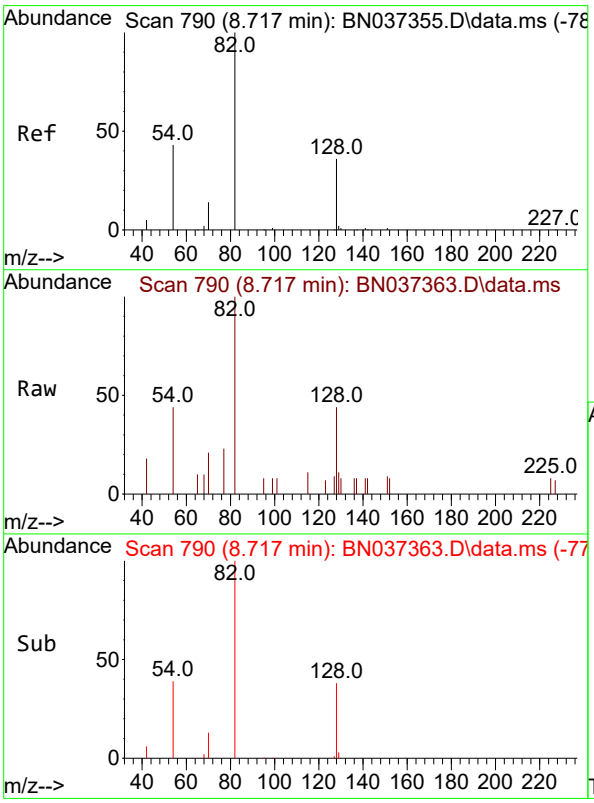
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:136 Resp: 4204

Ion	Ratio	Lower	Upper
136	100		
137	13.2	12.2	18.2
54	8.4	8.8	13.2#
68	6.7	7.0	10.4#

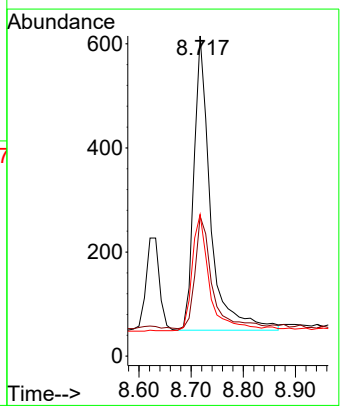


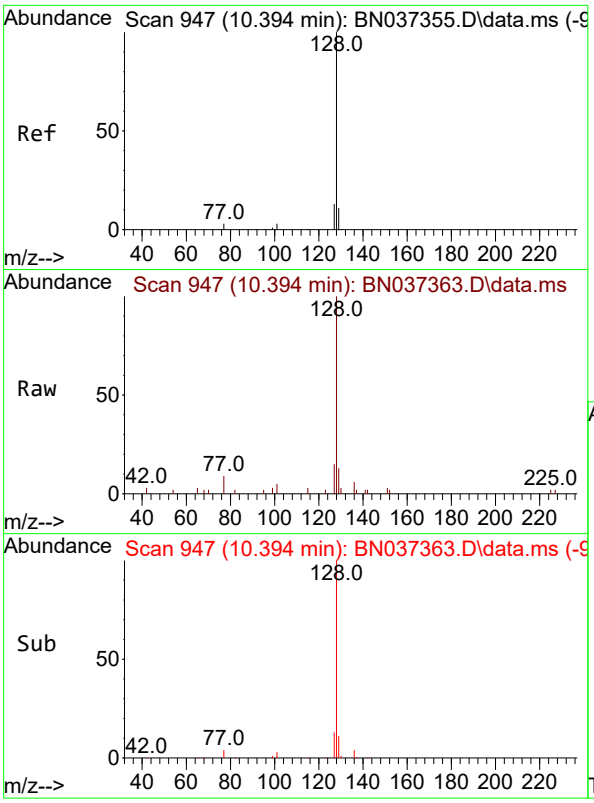


#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion: 82 Resp: 1246

Ion	Ratio	Lower	Upper
82	100		
128	43.7	42.5	63.7
54	44.2	43.2	64.8



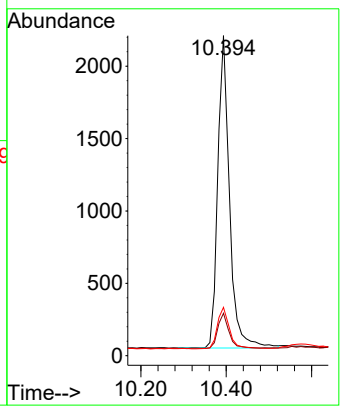


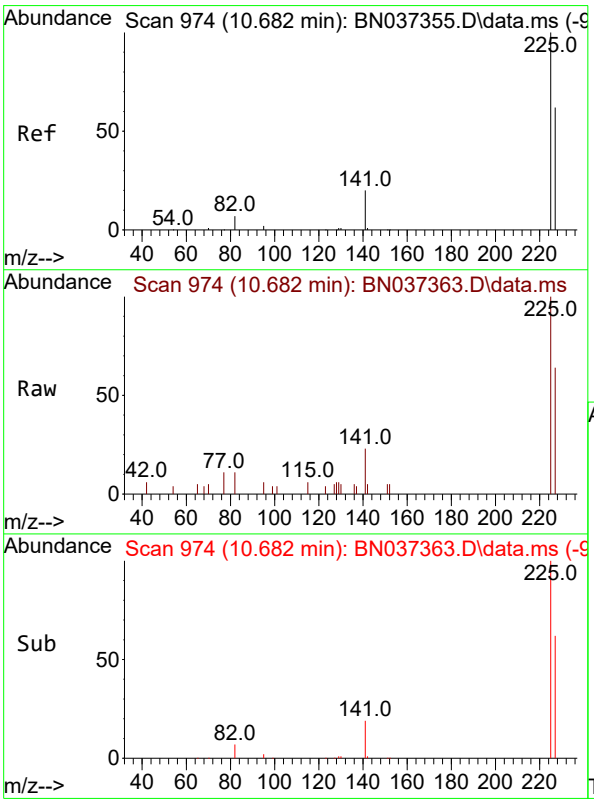
#9
Naphthalene
Concen: 0.372 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:128 Resp: 4124

Ion	Ratio	Lower	Upper
128	100		
129	13.3	14.0	21.0#
127	15.1	15.8	23.8#

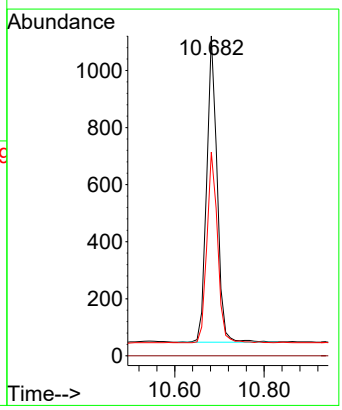


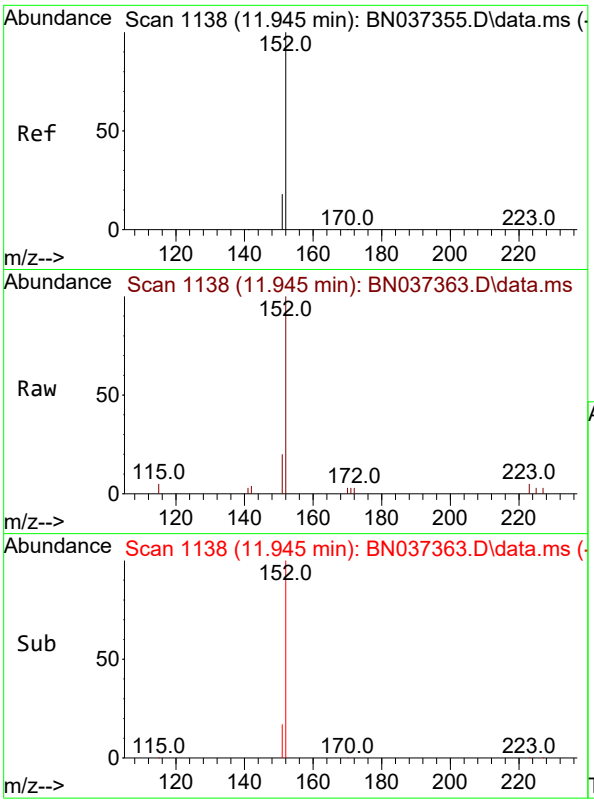


#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:225 Resp: 1728

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.3	75.5



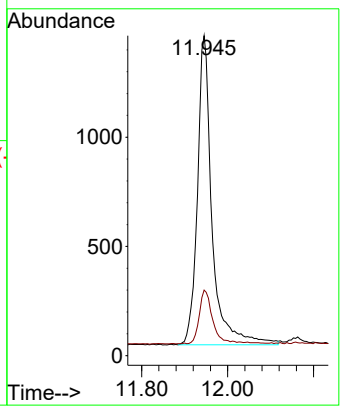


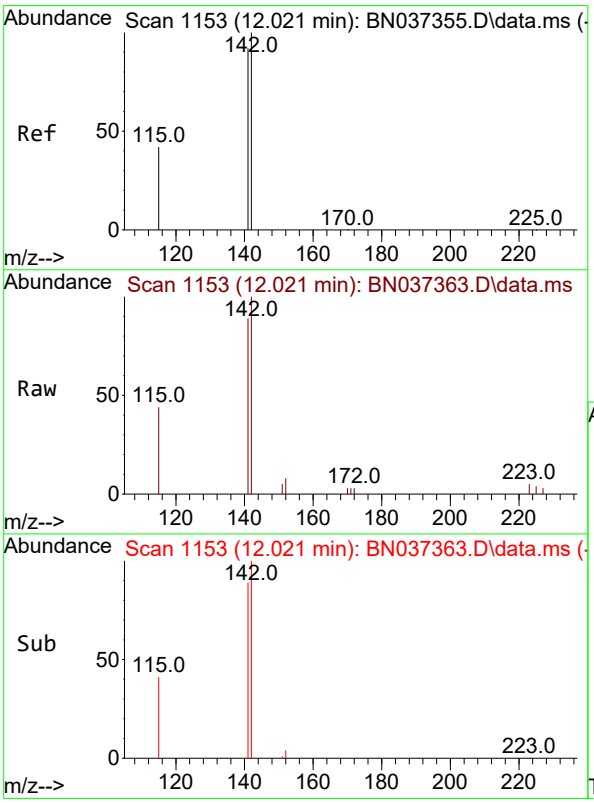
#11
2-Methylnaphthalene-d10
Concen: 0.490 ng
RT: 11.945 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:152 Resp: 3338

Ion	Ratio	Lower	Upper
152	100		
151	15.7	17.4	26.0#

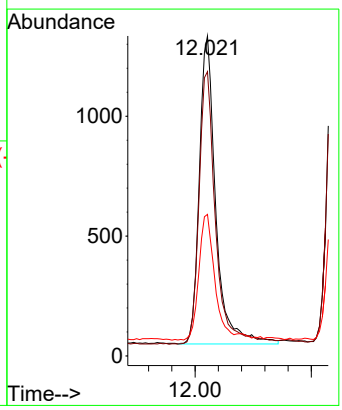


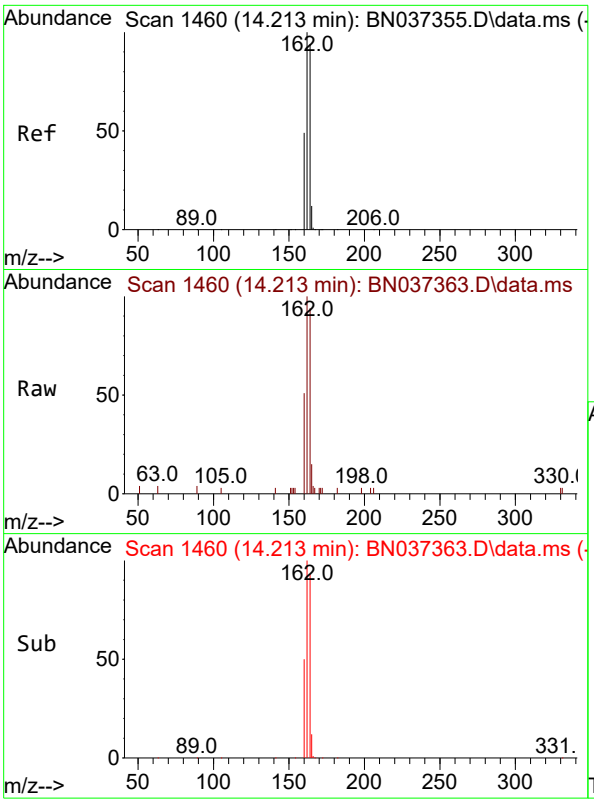


#12
2-Methylnaphthalene
Concen: 0.327 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:142 Resp: 2530

Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.2	105.2
115	44.3	43.0	64.4



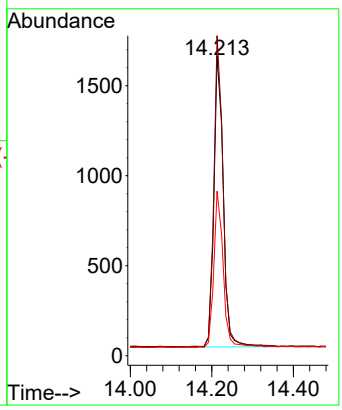


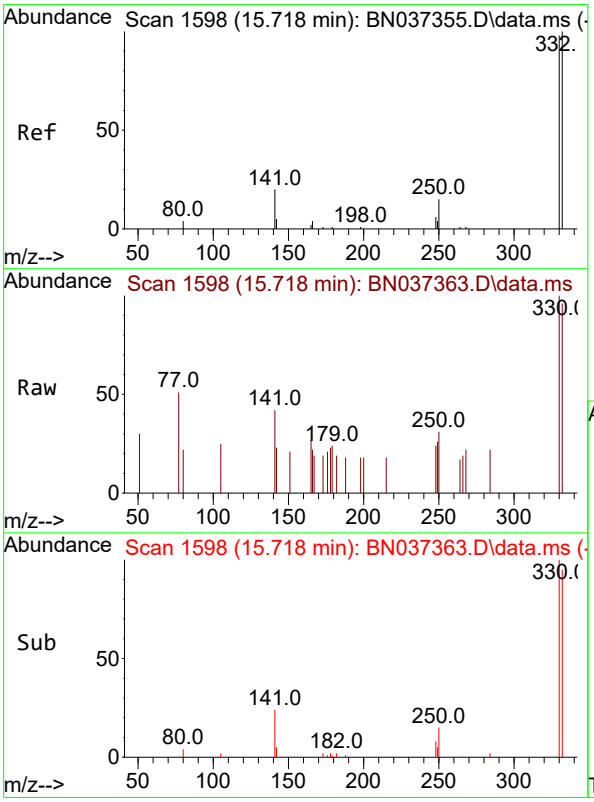
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:164 Resp: 2586

Ion	Ratio	Lower	Upper
164	100		
162	106.7	81.5	122.3
160	54.8	43.0	64.4

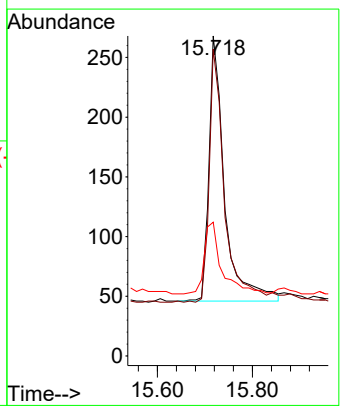


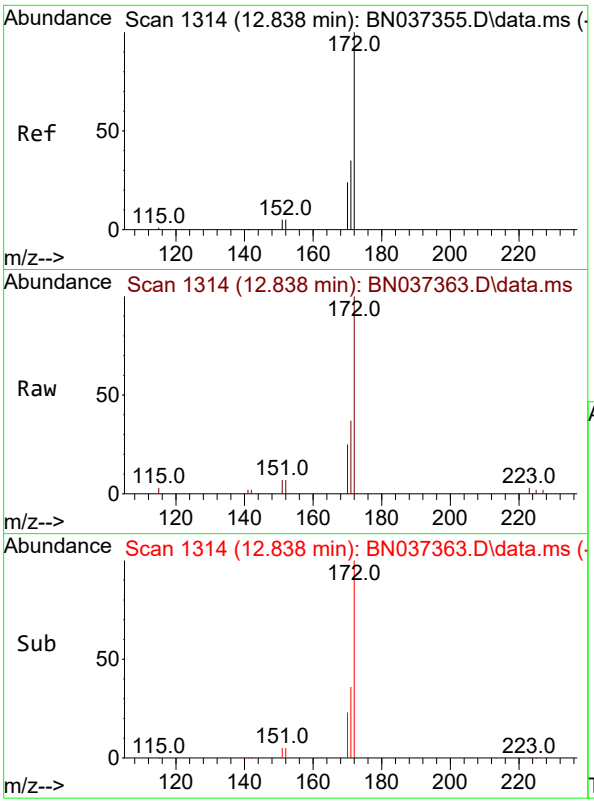


#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:330 Resp: 509

Ion	Ratio	Lower	Upper
330	100		
332	94.9	78.4	117.6
141	30.1	24.4	36.6



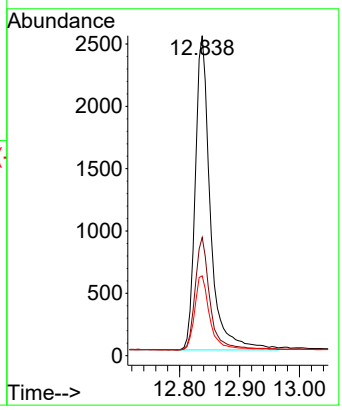


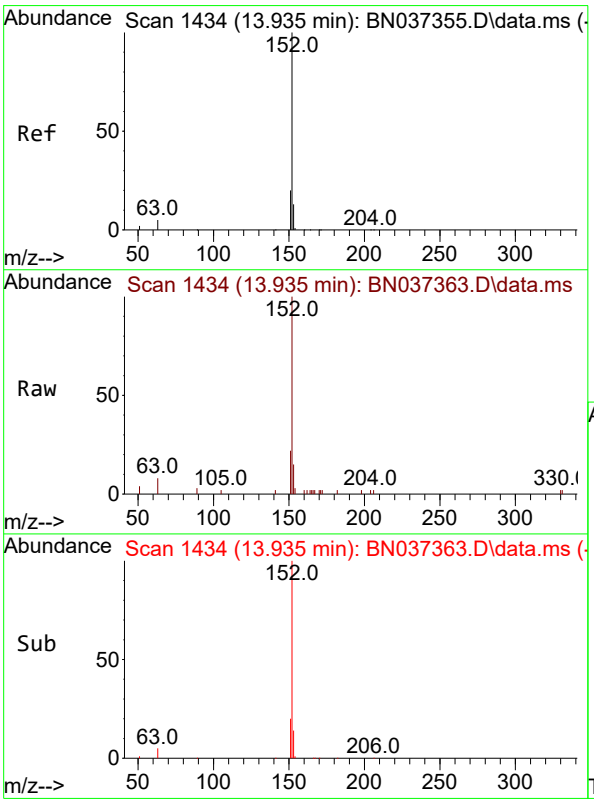
#15
2-Fluorobiphenyl
Concen: 0.387 ng
RT: 12.838 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:172 Resp: 4401

Ion	Ratio	Lower	Upper
172	100		
171	36.9	30.8	46.2
170	24.9	21.9	32.9

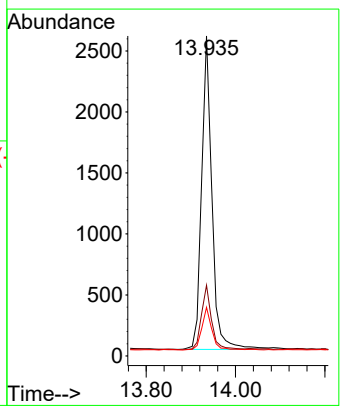


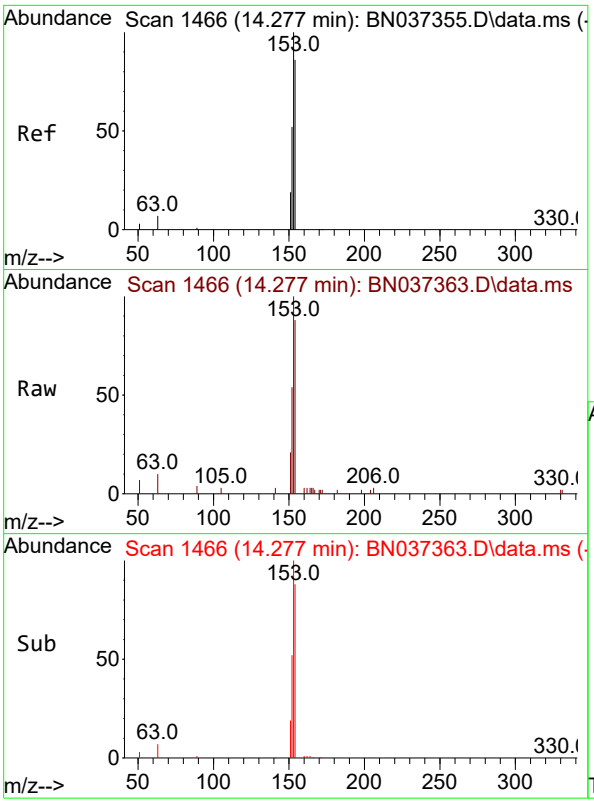


#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:152 Resp: 4145

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.6	24.8
153	13.4	10.2	15.2



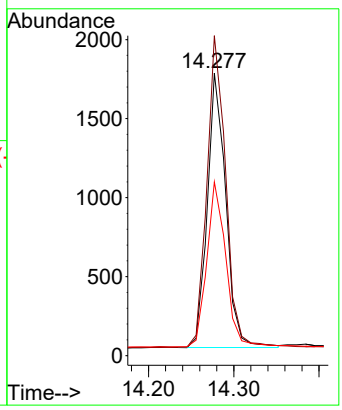


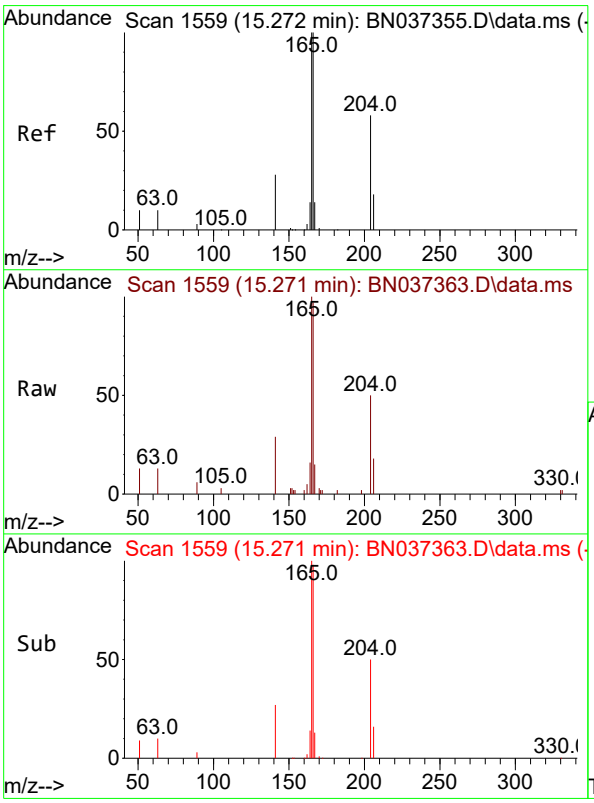
#17
Acenaphthene
Concen: 0.365 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:154 Resp: 2614

Ion	Ratio	Lower	Upper
154	100		
153	116.8	93.1	139.7
152	62.5	48.6	73.0

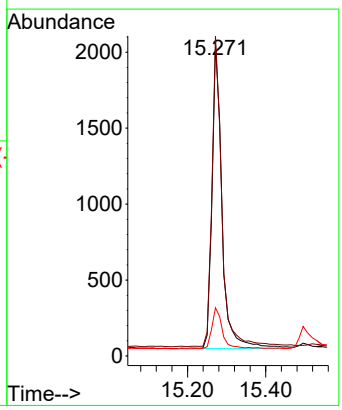


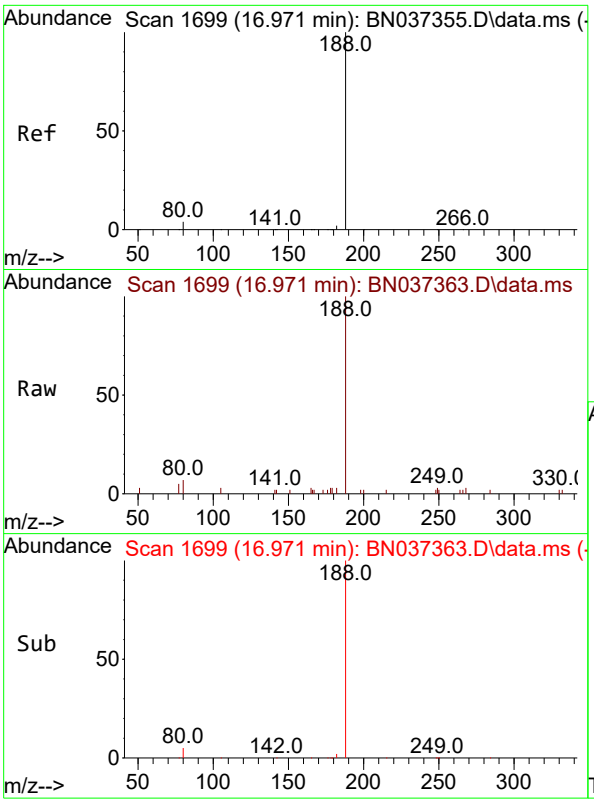


#18
Fluorene
Concen: 0.355 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:166 Resp: 3566

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.5	119.3
167	14.3	10.7	16.1



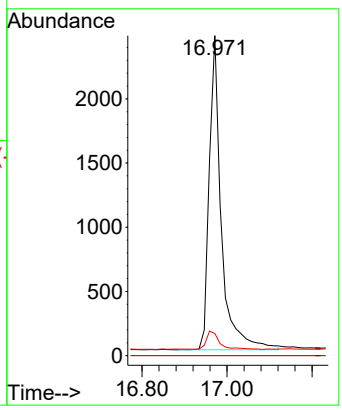


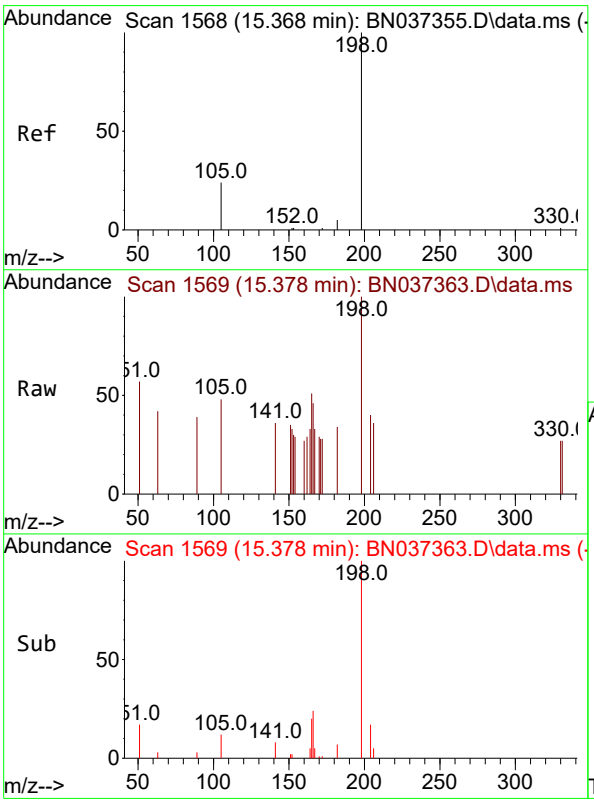
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:188 Resp: 4830

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.9	6.2	9.2

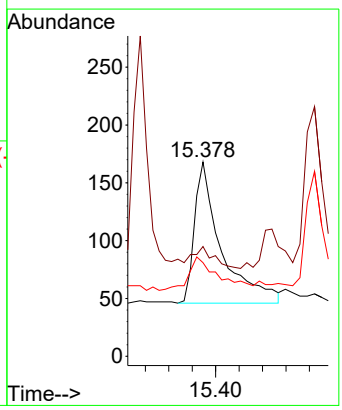


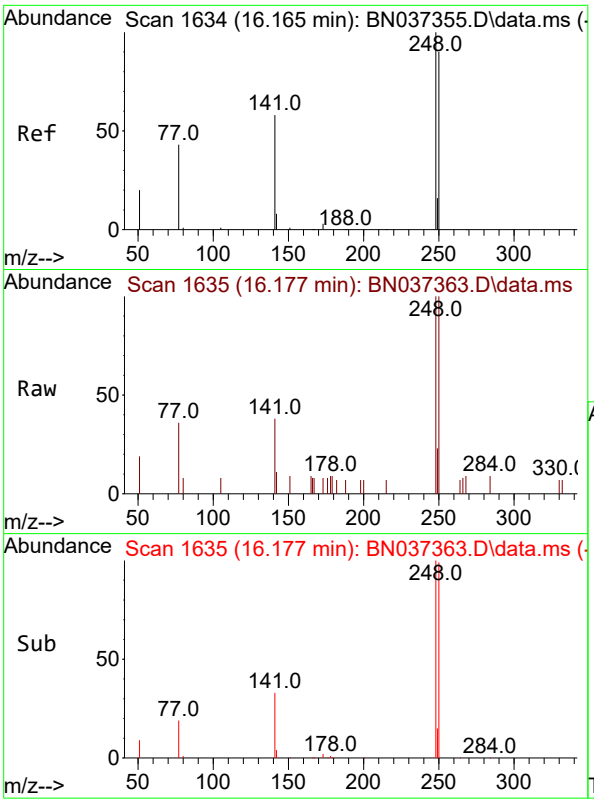


#20
4,6-Dinitro-2-methylphenol
Concen: 0.333 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:198 Resp: 387

Ion	Ratio	Lower	Upper
198	100		
51	56.5	51.4	77.0
105	48.2	45.5	68.3



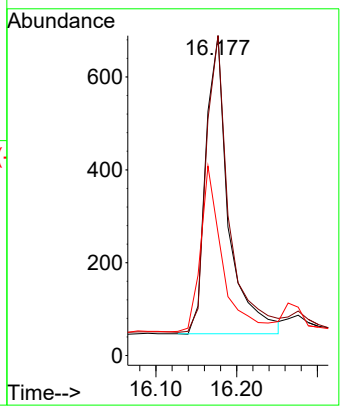


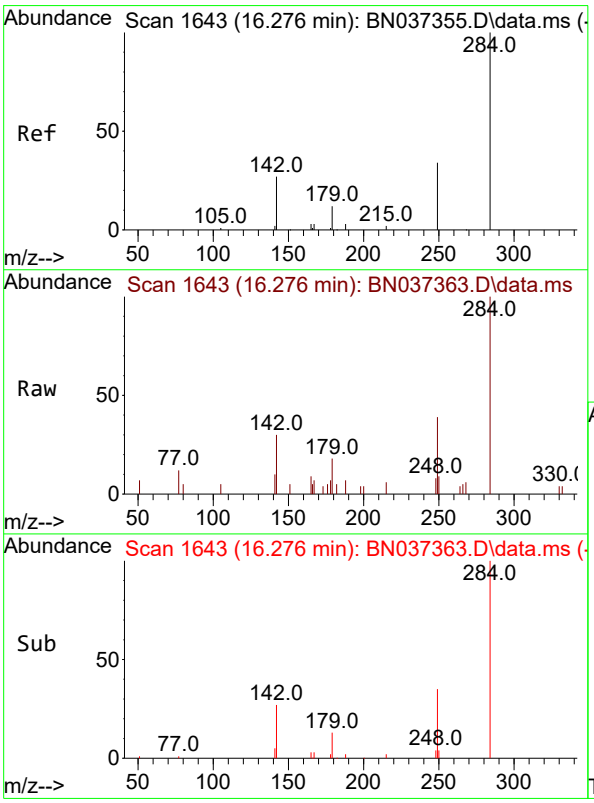
#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:248 Resp: 1258

Ion	Ratio	Lower	Upper
248	100		
250	100.0	80.4	120.6
141	38.3	33.3	49.9

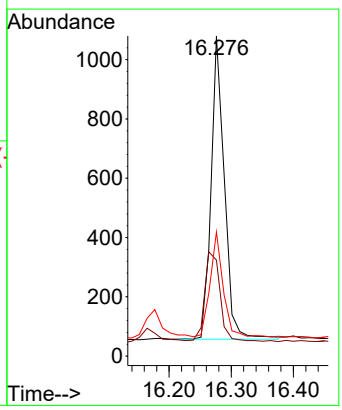


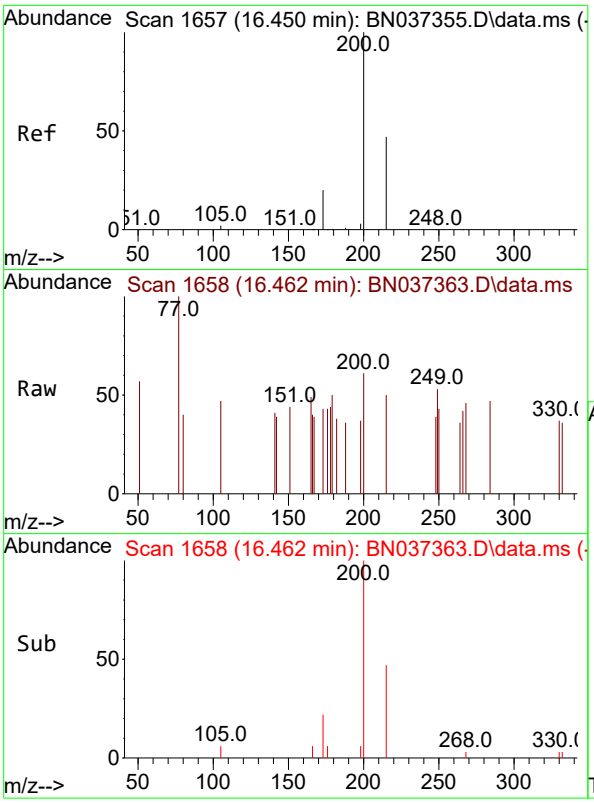


#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:284 Resp: 1521

Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.0	40.6
249	34.9	28.8	43.2



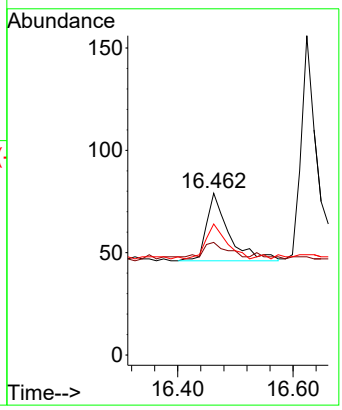


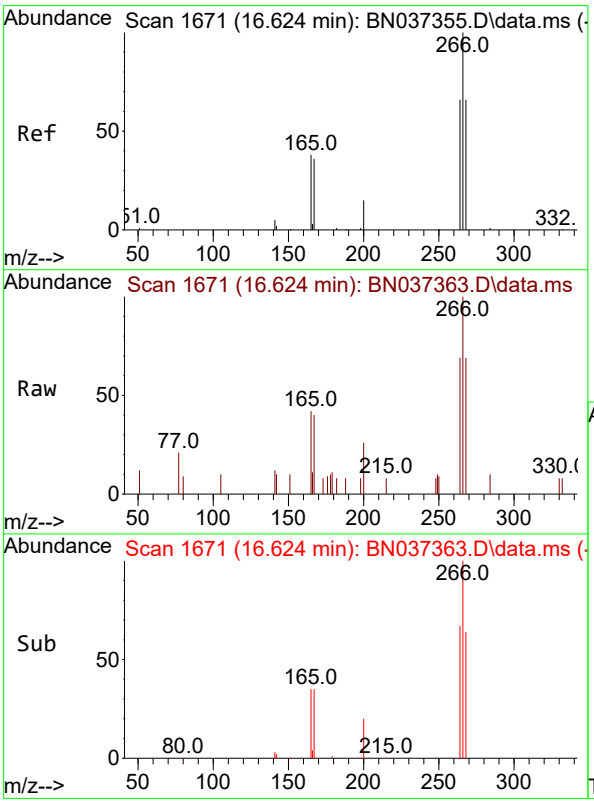
#23
Atrazine
Concen: 0.032 ng
RT: 16.462 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:200 Resp: 89

Ion	Ratio	Lower	Upper
200	100		
173	69.6	29.2	43.8#
215	81.0	48.8	73.2#

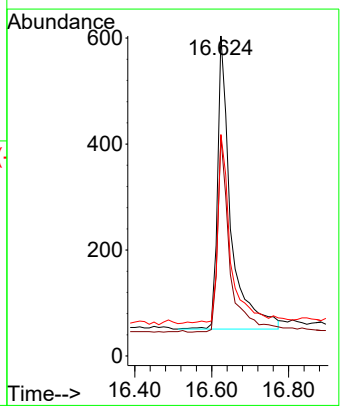


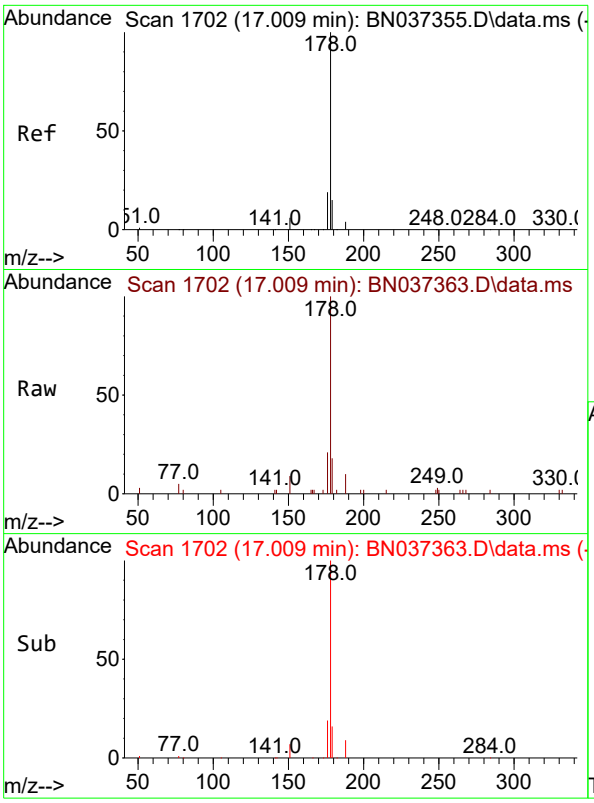


#24
Pentachlorophenol
Concen: 0.709 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:266 Resp: 1322

Ion	Ratio	Lower	Upper
266	100		
264	62.1	50.3	75.5
268	62.8	55.3	82.9



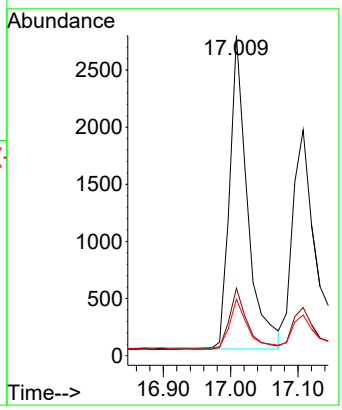


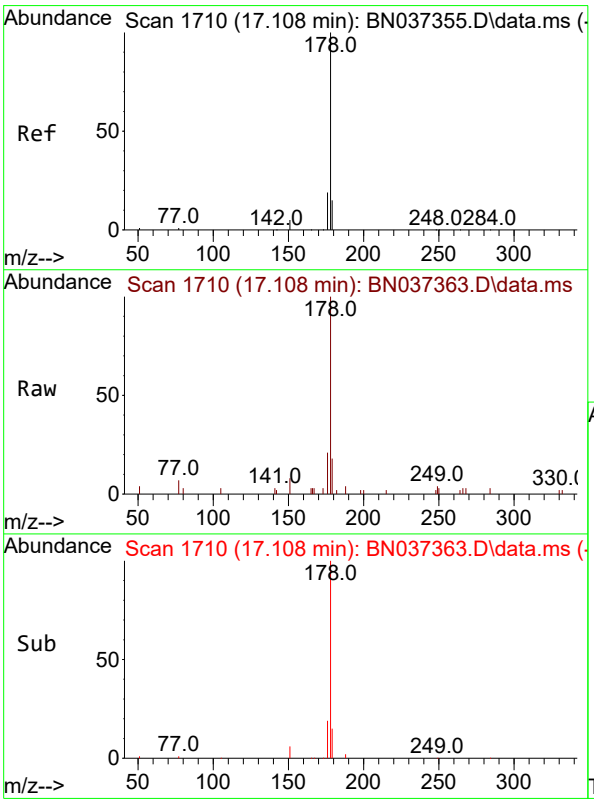
#25
Phenanthrene
Concen: 0.362 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:178 Resp: 5063

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.4	12.9	19.3

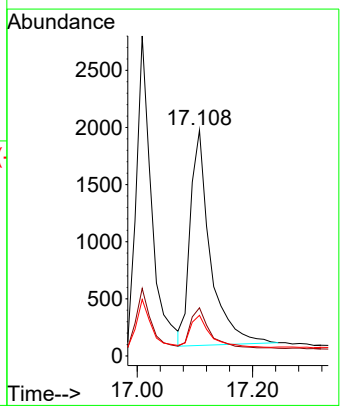


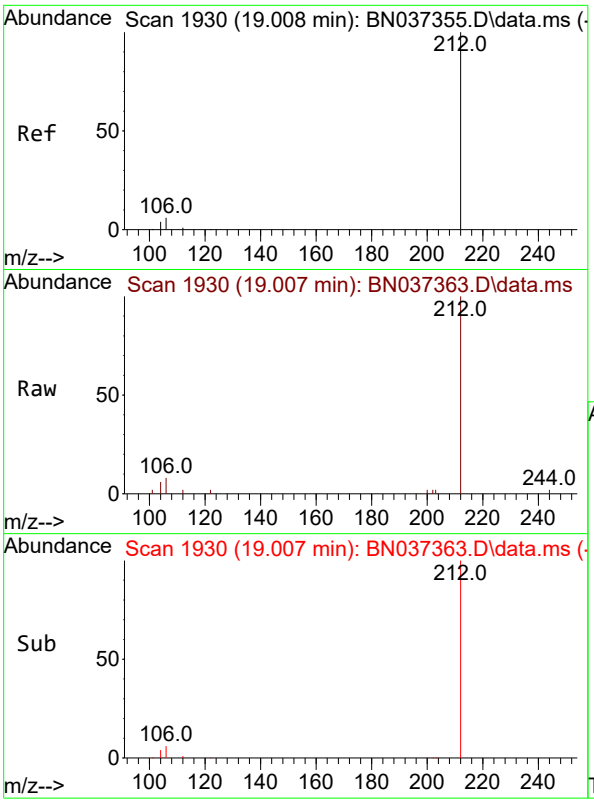


#26
Anthracene
Concen: 0.352 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:178 Resp: 4541

Ion	Ratio	Lower	Upper
178	100		
176	19.5	14.7	22.1
179	15.4	13.0	19.6



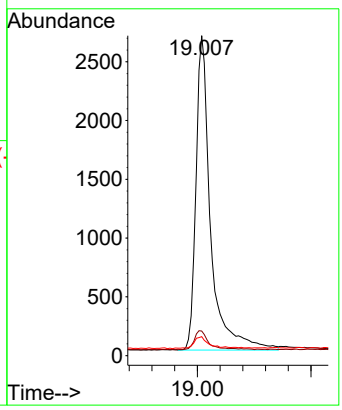


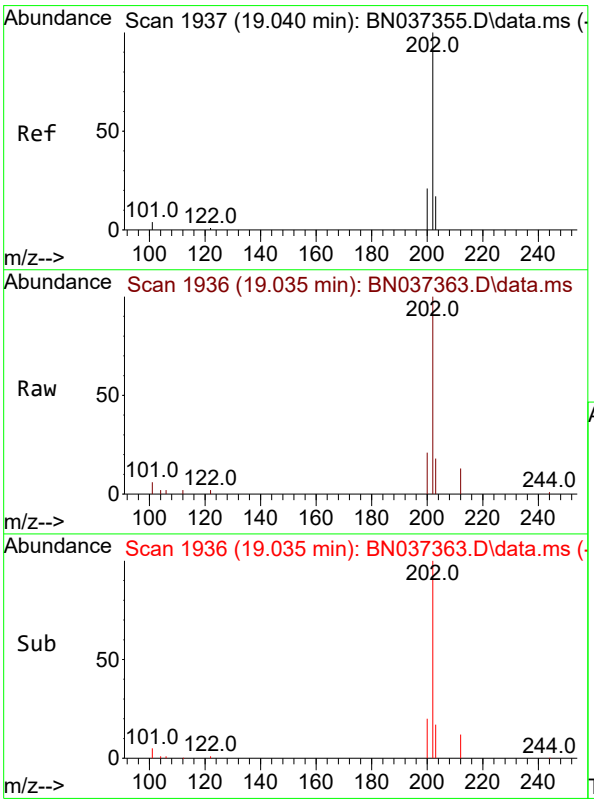
#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.007 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:212 Resp: 4783

Ion	Ratio	Lower	Upper
212	100		
106	5.9	3.0	4.4#
104	3.7	2.0	3.0#

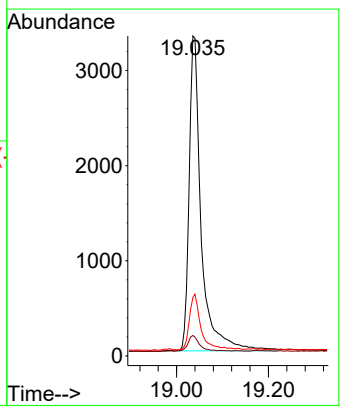


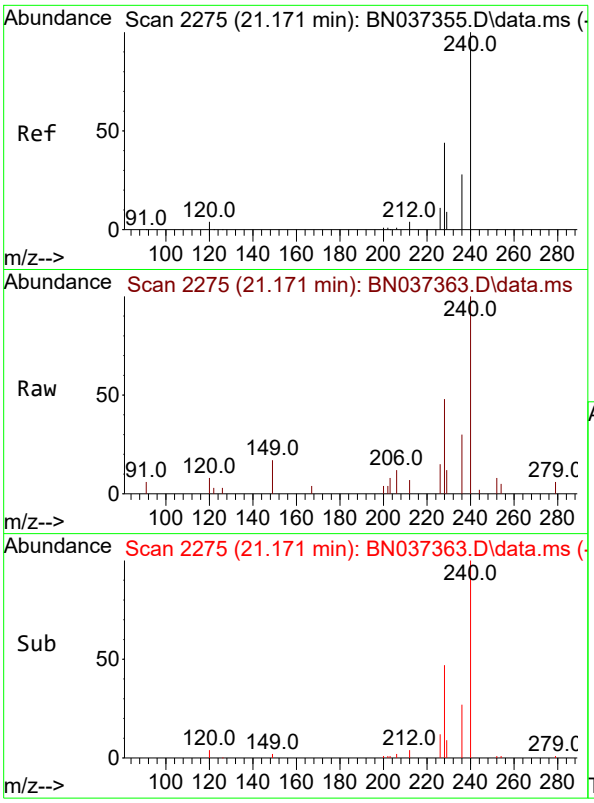


#28
Fluoranthene
Concen: 0.343 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:202 Resp: 6071

Ion	Ratio	Lower	Upper
202	100		
101	5.1	3.0	4.6#
203	16.9	13.7	20.5



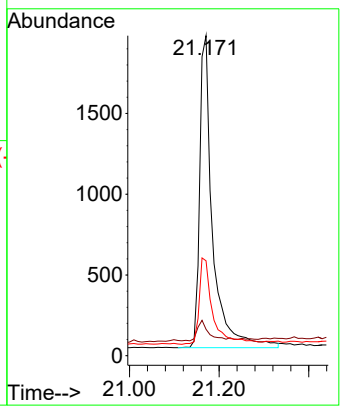


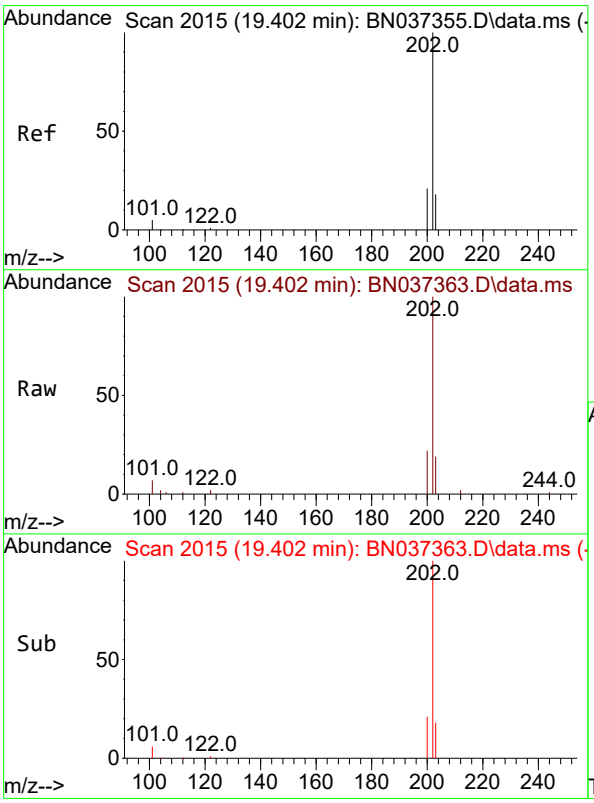
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:240 Resp: 3875

Ion	Ratio	Lower	Upper
240	100		
120	8.3	7.5	11.3
236	29.7	24.9	37.3

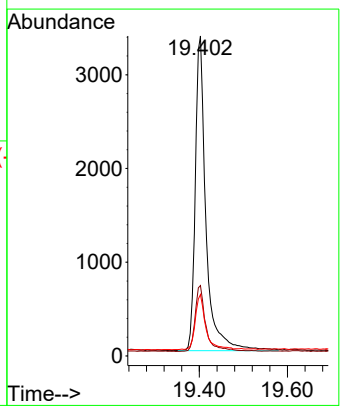


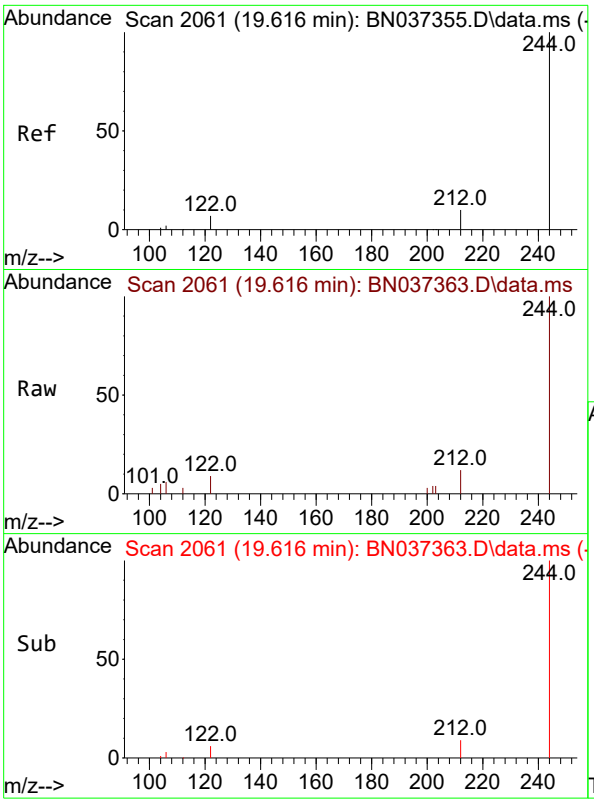


#30
Pyrene
Concen: 0.361 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:202 Resp: 5679

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.8	25.2
203	17.2	14.5	21.7



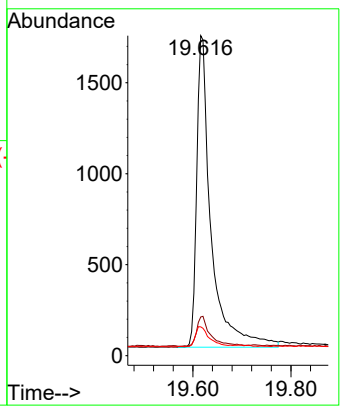


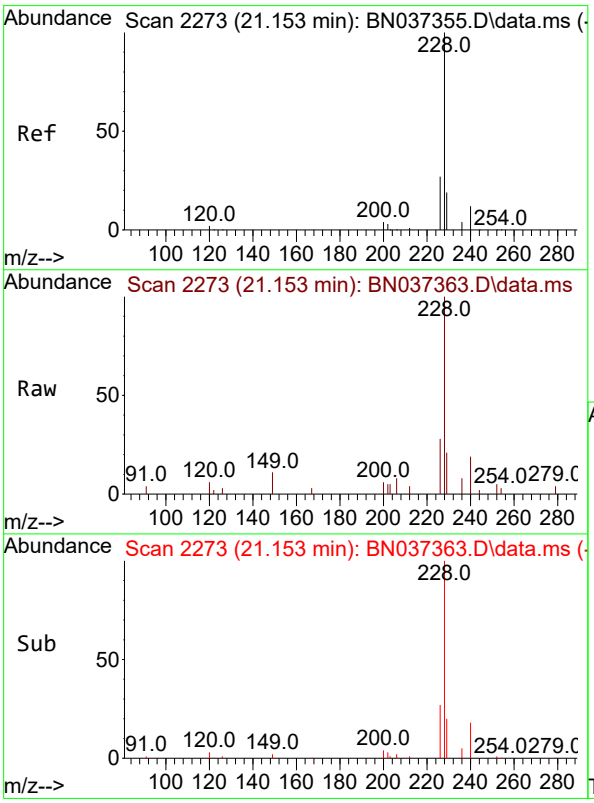
#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.616 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:244 Resp: 3479

Ion	Ratio	Lower	Upper
244	100		
212	12.1	11.1	16.7
122	9.0	7.2	10.8

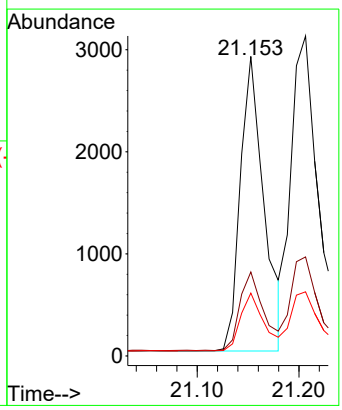


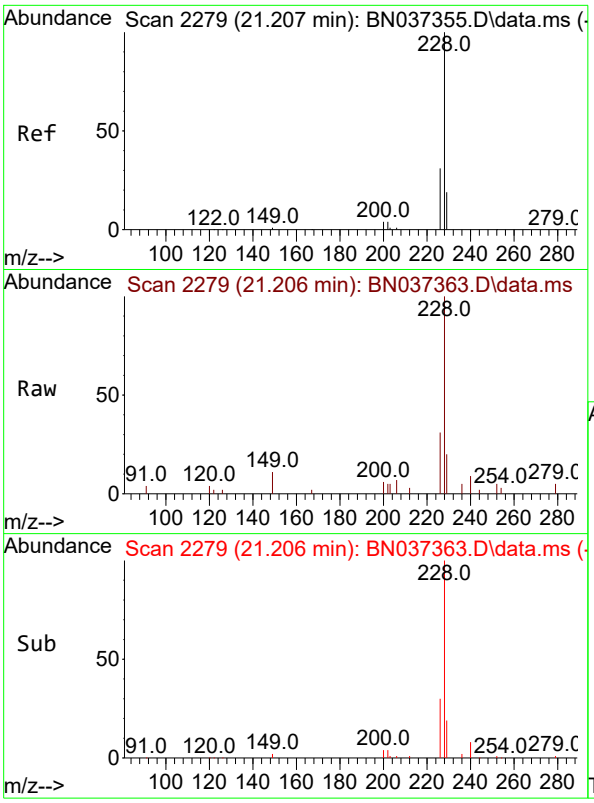


#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:228 Resp: 4660

Ion	Ratio	Lower	Upper
228	100		
226	28.1	23.0	34.4
229	21.0	17.4	26.0



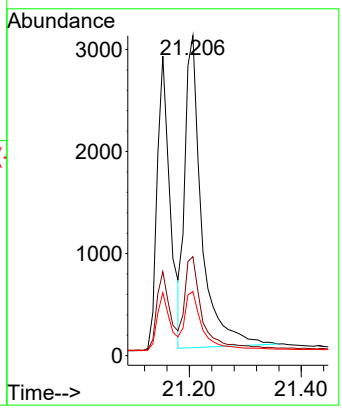


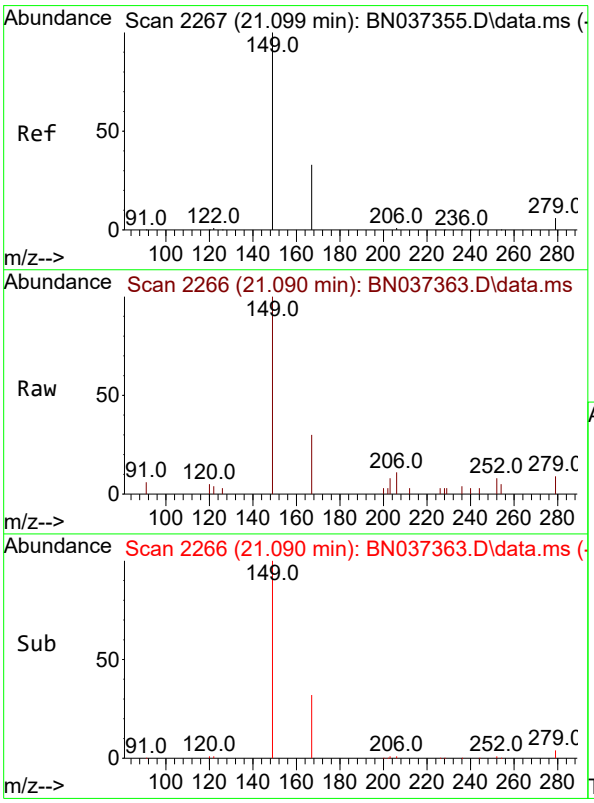
#33
Chrysene
Concen: 0.414 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:228 Resp: 6398

Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.4	38.2
229	20.1	17.3	25.9

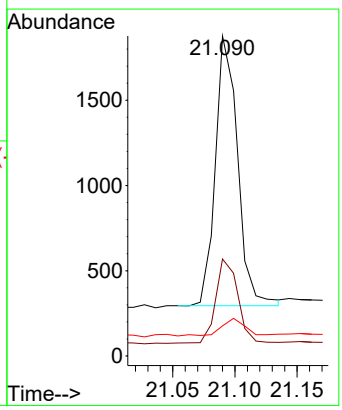


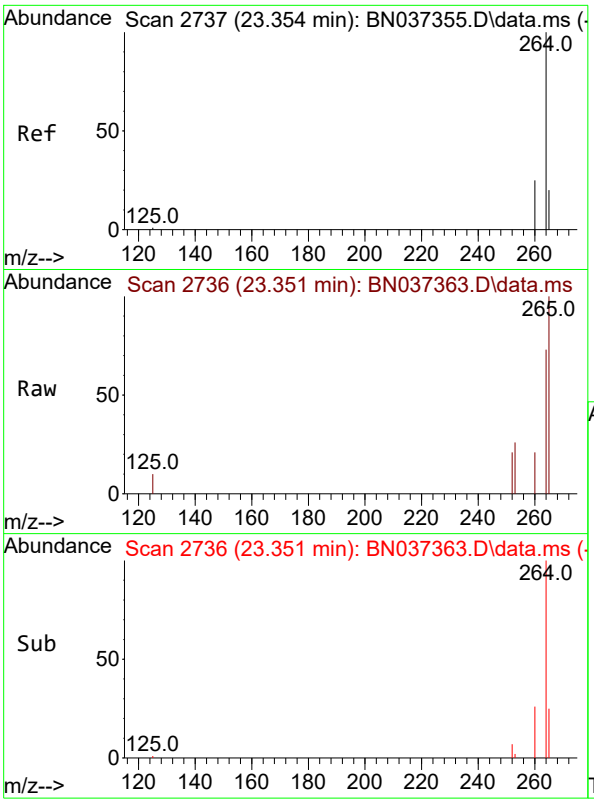


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.377 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:149 Resp: 1970

Ion	Ratio	Lower	Upper
149	100		
167	31.2	24.6	37.0
279	6.2	6.5	9.7#



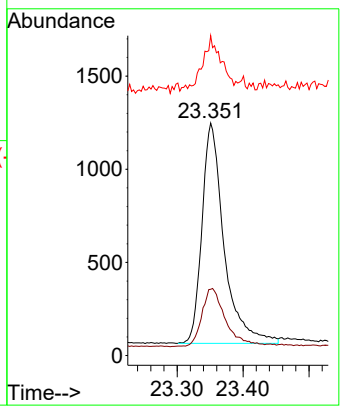


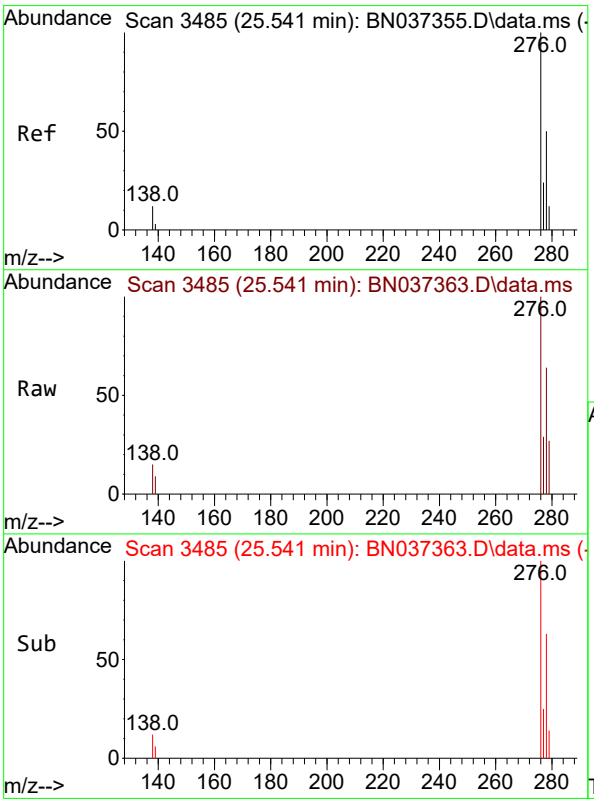
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:264 Resp: 2749

Ion	Ratio	Lower	Upper
264	100		
260	28.5	21.4	32.2
265	137.6	71.4	107.0#

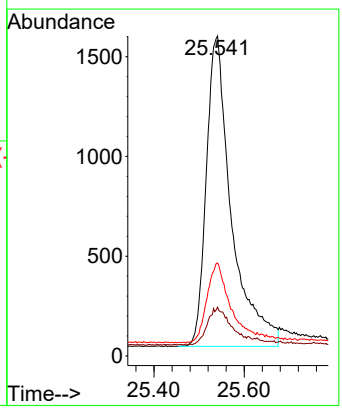


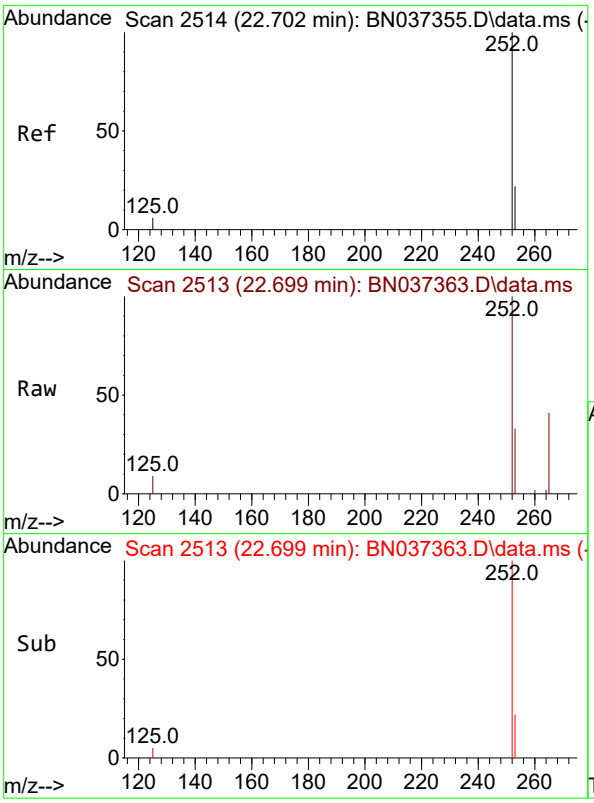


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.488 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:276 Resp: 6014

Ion	Ratio	Lower	Upper
276	100		
138	11.2	2.2	3.2#
277	24.2	17.1	25.7



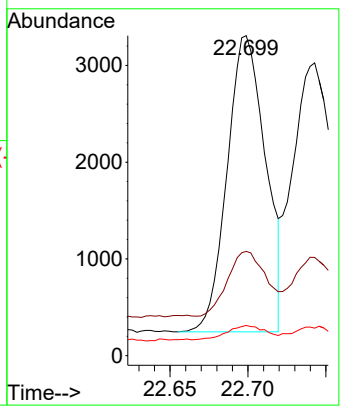


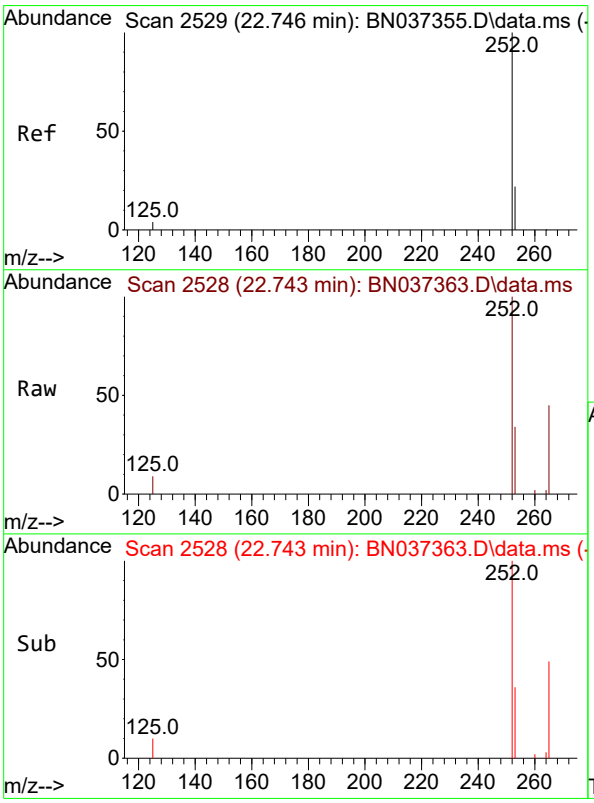
#37
Benzo(b)fluoranthene
Concen: 0.519 ng
RT: 22.699 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:252 Resp: 5246

Ion	Ratio	Lower	Upper
252	100		
253	32.6	26.6	40.0
125	9.5	6.1	9.1#

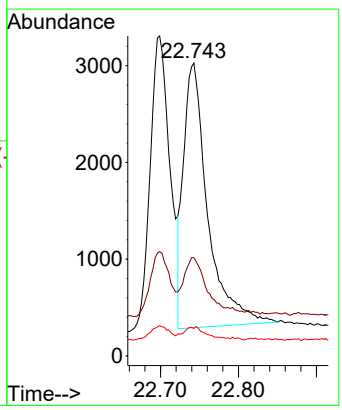


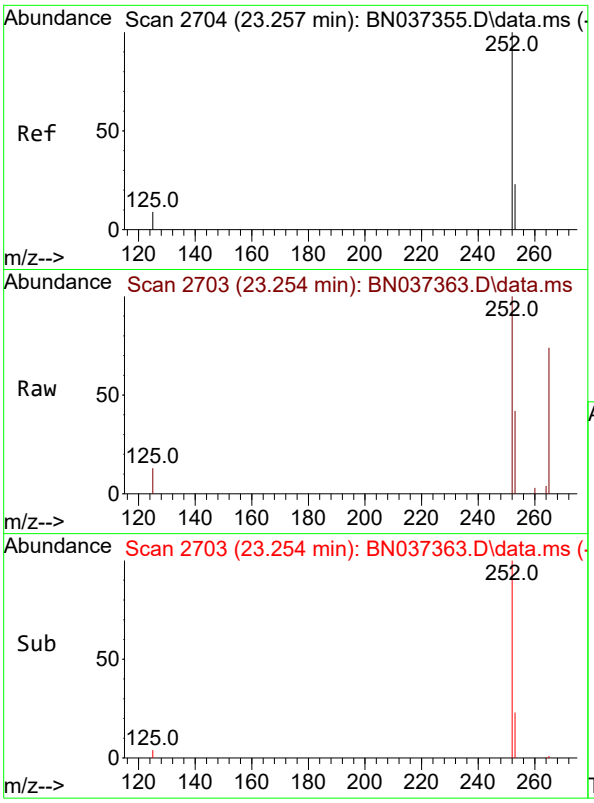


#38
Benzo(k)fluoranthene
Concen: 0.539 ng
RT: 22.743 min Scan# 2528
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:252 Resp: 5910

Ion	Ratio	Lower	Upper
252	100		
253	33.5	26.7	40.1
125	9.4	6.5	9.7



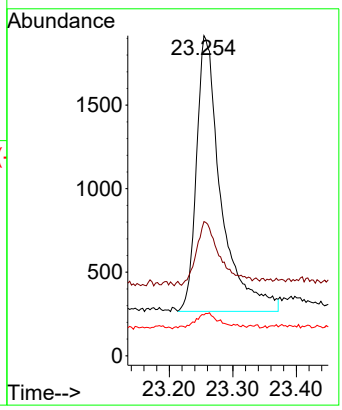


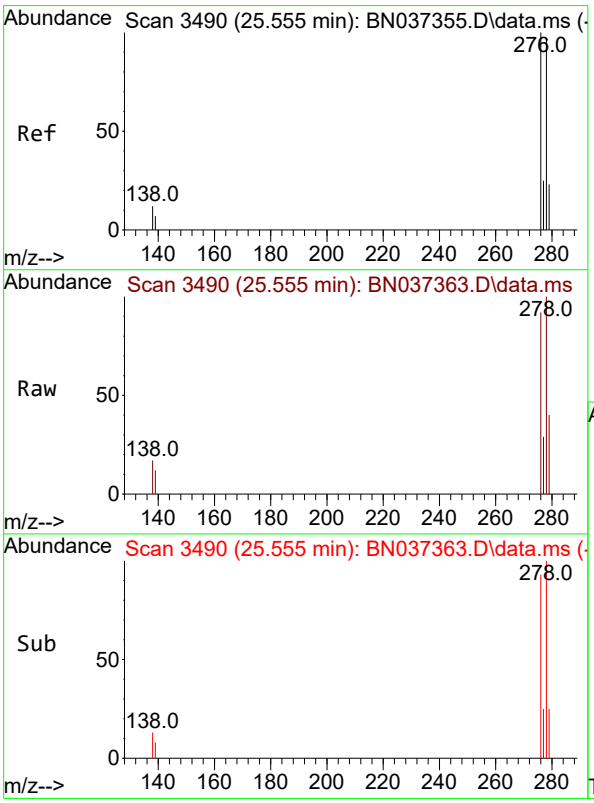
#39
Benzo(a)pyrene
Concen: 0.487 ng
RT: 23.254 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:252 Resp: 4418

Ion	Ratio	Lower	Upper
252	100		
253	41.9	31.6	47.4
125	12.8	8.4	12.6#

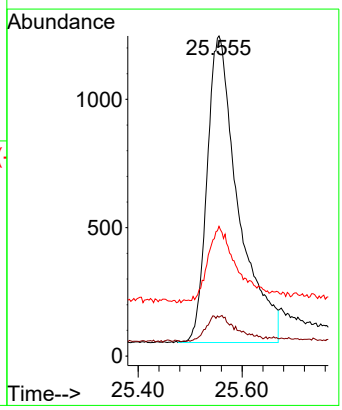


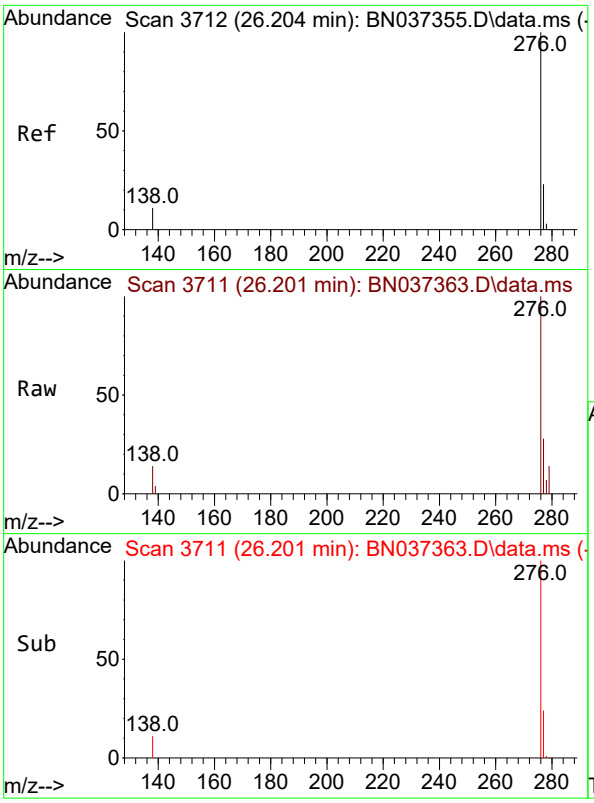


#40
Dibenzo(a,h)anthracene
Concen: 0.537 ng
RT: 25.555 min Scan# 3490
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:278 Resp: 4975

Ion	Ratio	Lower	Upper
278	100		
139	12.1	10.2	15.4
279	40.5	35.6	53.4



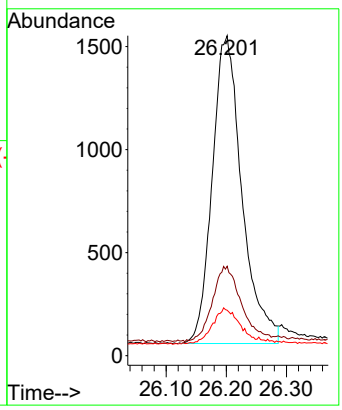


#41
Benzo(g,h,i)perylene
Concen: 0.464 ng
RT: 26.201 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:276 Resp: 5107

Ion	Ratio	Lower	Upper
276	100		
277	27.9	22.7	34.1
138	14.2	9.4	14.2#



Raw Data: **BN037364.D**

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168563BSD	SDG No.:	Q2375
Lab Sample ID:	PB168563BSD	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
BN037364.D	1	06/20/25 12:03	06/21/25 00:04	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1890	7.568				
1146-65-2	Naphthalene-d8	4100	10.34				
15067-26-2	Acenaphthene-d10	2620	14.213				
1517-22-2	Phenanthrene-d10	5040	16.971				
1719-03-5	Chrysene-d12	4190	21.162				
1520-96-3	Perylene-d12	4470	23.354				

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\BN062125\
Data File : BN037364.D
Acq On : 21 Jun 2025 00:04
Operator : RC/JU
Sample : PB168563BSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 21 00:33:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1885	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4095	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2623	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5035	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	4193	0.400	ng	0.00
35) Perylene-d12	23.354	264	4470	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1274	0.338	ng	0.00
5) Phenol-d6	6.752	99	1342	0.346	ng	0.00
8) Nitrobenzene-d5	8.717	82	1284	0.388	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2563m	0.386	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	522	0.339	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4574	0.397	ng	0.00
27) Fluoranthene-d10	19.007	212	5003	0.346	ng	0.00
31) Terphenyl-d14	19.616	244	3587	0.375	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	583	0.304	ng	# 36
3) n-Nitrosodimethylamine	3.415	42	653	0.372	ng	# 70
6) bis(2-Chloroethyl)ether	7.004	93	1260	0.366	ng	99
9) Naphthalene	10.394	128	4026	0.372	ng	# 89
10) Hexachlorobutadiene	10.682	225	1748	0.410	ng	# 100
12) 2-Methylnaphthalene	12.021	142	2474	0.328	ng	93
16) Acenaphthylene	13.935	152	4445	0.403	ng	98
17) Acenaphthene	14.277	154	2642	0.364	ng	98
18) Fluorene	15.271	166	3709	0.364	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	419	0.346	ng	# 81
21) 4-Bromophenyl-phenylether	16.177	248	1344	0.375	ng	96
22) Hexachlorobenzene	16.276	284	1596	0.409	ng	99
23) Atrazine	16.450	200	1011	0.354	ng	# 88
24) Pentachlorophenol	16.624	266	1337	0.688	ng	97
25) Phenanthrene	17.009	178	5370	0.368	ng	99
26) Anthracene	17.108	178	4862	0.362	ng	99
28) Fluoranthene	19.035	202	6244	0.339	ng	# 99
30) Pyrene	19.402	202	6351	0.373	ng	99
32) Benzo(a)anthracene	21.153	228	5141	0.373	ng	99
33) Chrysene	21.206	228	6472	0.387	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	2023	0.358	ng	96
36) Indeno(1,2,3-cd)pyrene	25.538	276	7744	0.386	ng	# 92
37) Benzo(b)fluoranthene	22.696	252	5838	0.355	ng	95
38) Benzo(k)fluoranthene	22.740	252	6945	0.389	ng	96
39) Benzo(a)pyrene	23.254	252	5888	0.399	ng	95
40) Dibenzo(a,h)anthracene	25.552	278	5912	0.392	ng	89
41) Benzo(g,h,i)perylene	26.199	276	7039	0.393	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037364.D
Acq On : 21 Jun 2025 00:04
Operator : RC/JU
Sample : PB168563BSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 21 00:33:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

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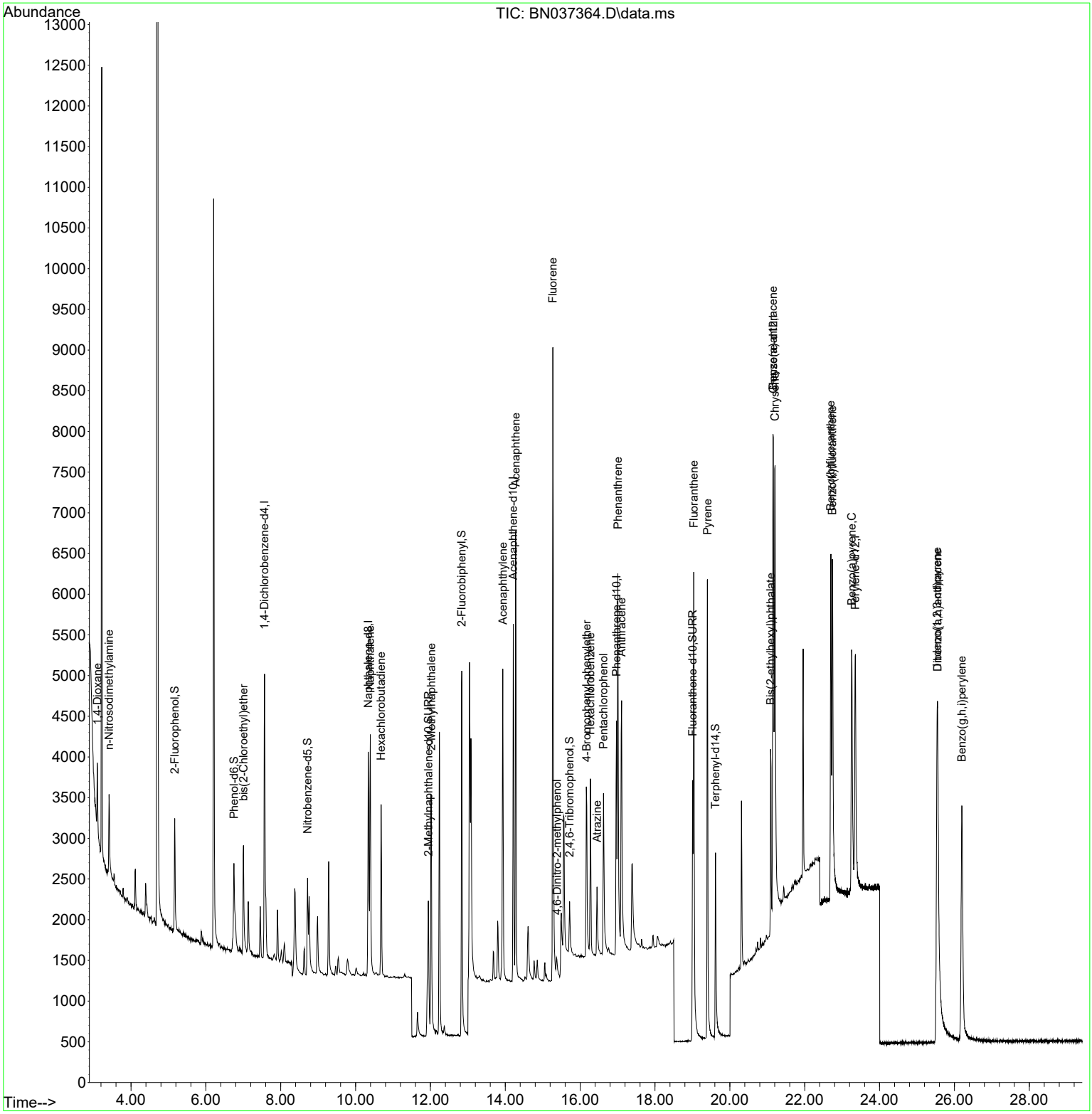
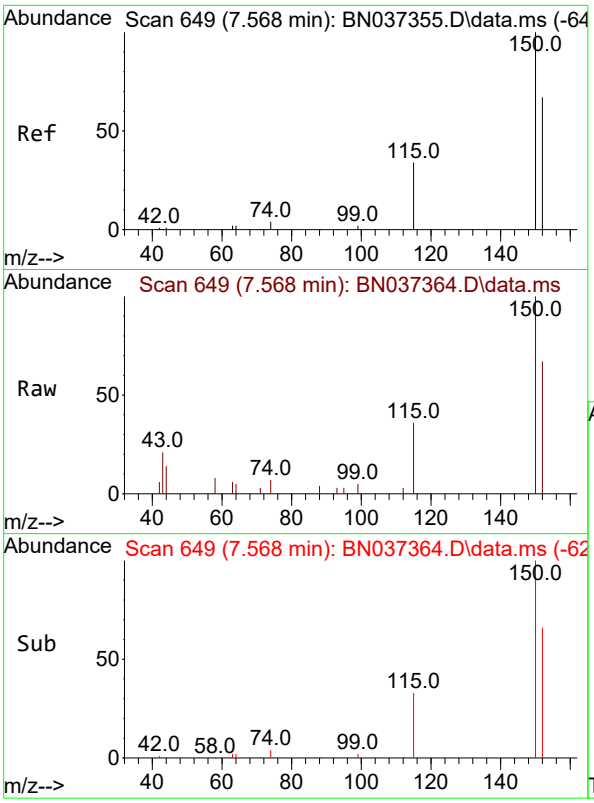
Supervised By :Jagrut Upadhyay 06/24/2025

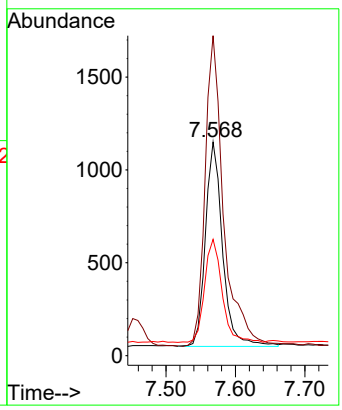




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:152 Resp: 188

Ion	Ratio	Lower	Upper
152	100		
150	149.8	112.7	169.1
115	54.4	45.9	68.9



Instrument :
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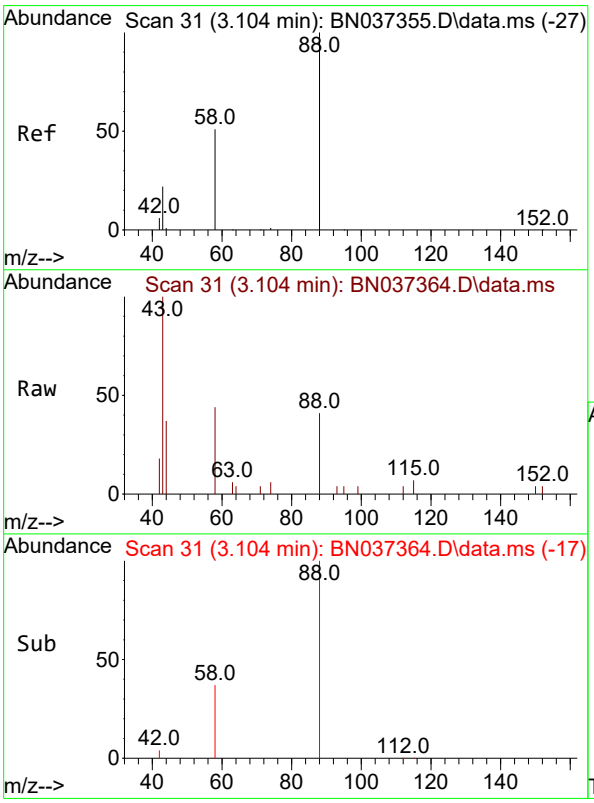
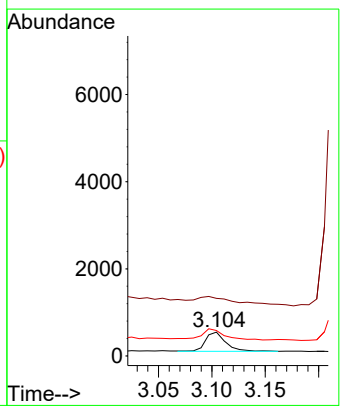
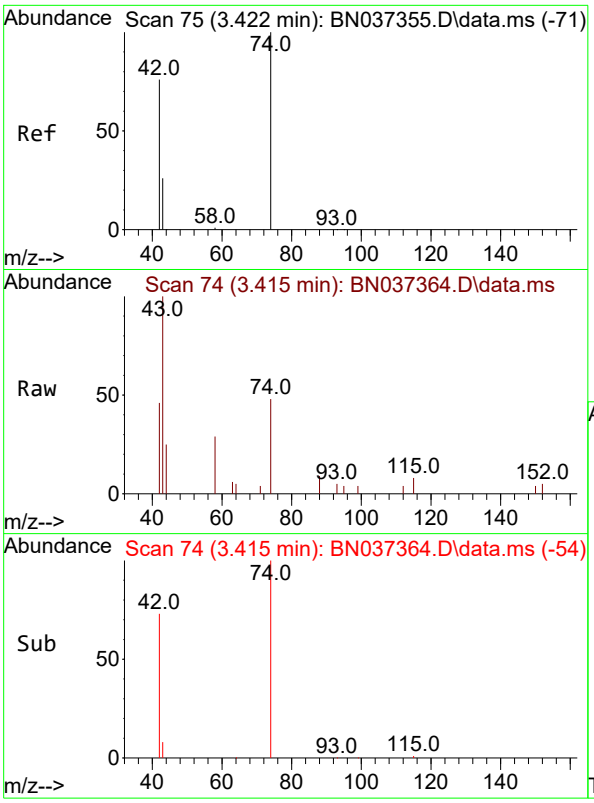


#2
1,4-Dioxane
Concen: 0.304 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 88 Resp: 583

Ion	Ratio	Lower	Upper
88	100		
43	101.0	21.0	31.6#
58	59.7	38.0	57.0#

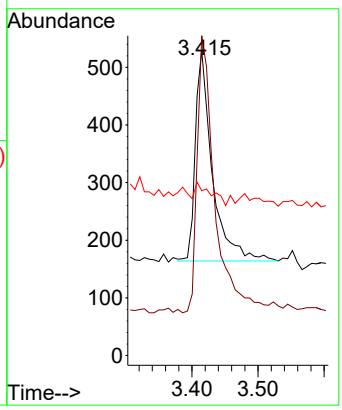




#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.415 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 42 Resp: 65

Ion	Ratio	Lower	Upper
42	100		
74	137.4	84.3	126.5#
44	10.1	5.0	7.4#



Instrument :
BNA_N
ClientSampleId :
PB168563BSD

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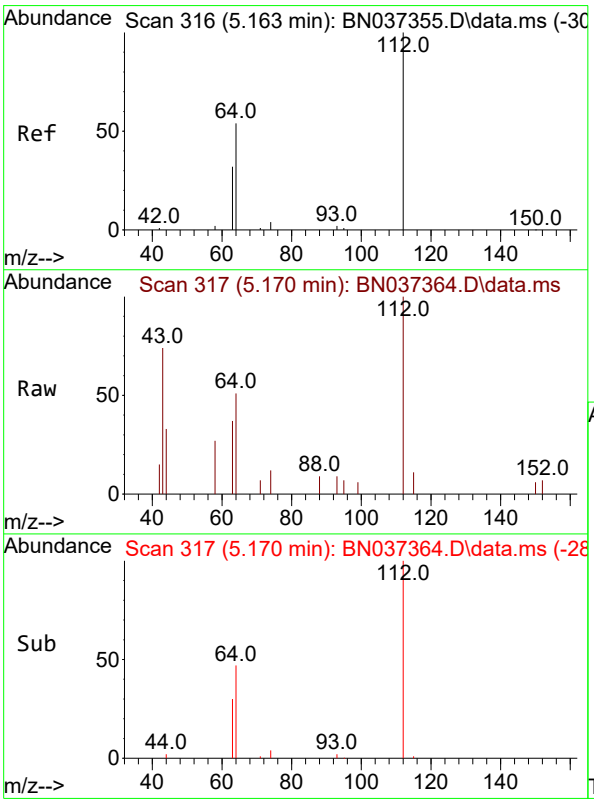
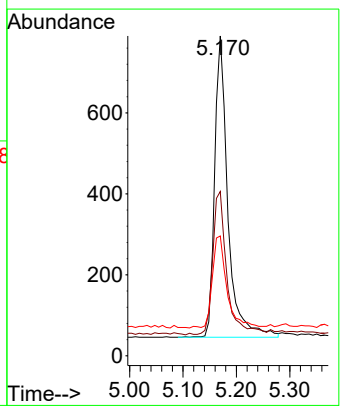
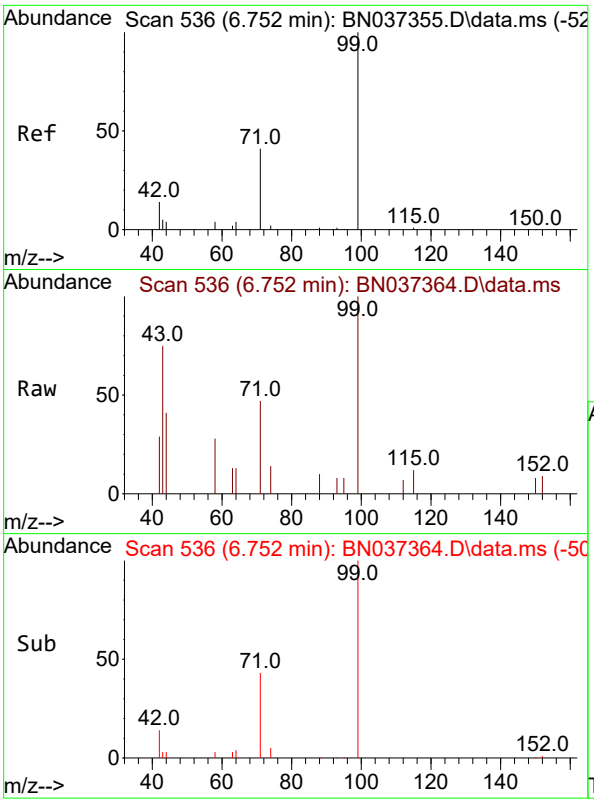


#4
2-Fluorophenol
Concen: 0.338 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:112 Resp: 1274

Ion	Ratio	Lower	Upper
112	100		
64	50.5	38.7	58.1
63	33.0	26.4	39.6

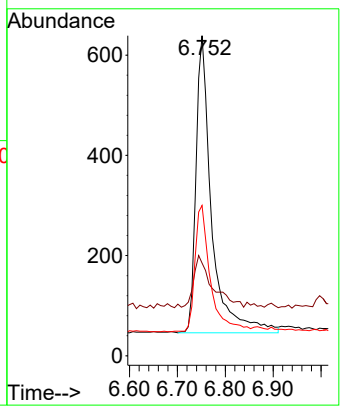




#5
Phenol-d6
Concen: 0.346 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 99 Resp: 134

Ion	Ratio	Lower	Upper
99	100		
42	21.1	19.8	29.8
71	42.0	42.6	64.0



Instrument :
BNA_N
ClientSampleId :
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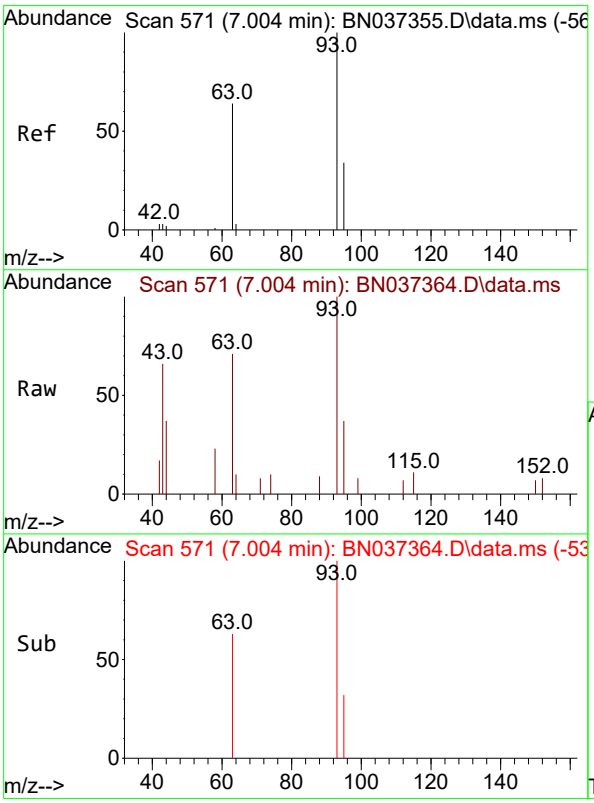
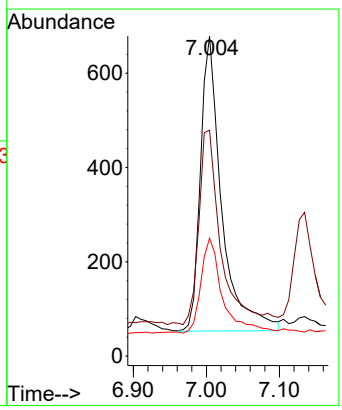
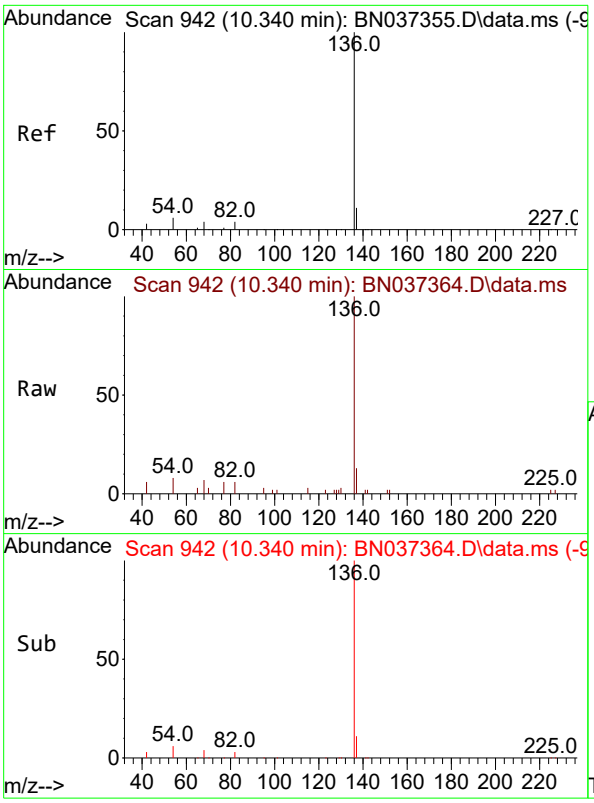


#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 93 Resp: 1260

Ion	Ratio	Lower	Upper
93	100		
63	66.8	53.2	79.8
95	32.7	27.3	40.9

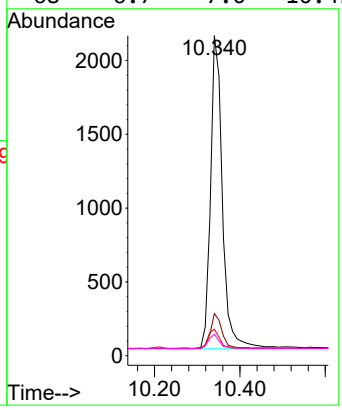




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:136 Resp: 409

Ion	Ratio	Lower	Upper
136	100		
137	13.1	12.2	18.2
54	8.3	8.8	13.2#
68	6.7	7.0	10.4#



Instrument :
BNA_N
ClientSampleId :
PB168563BSD

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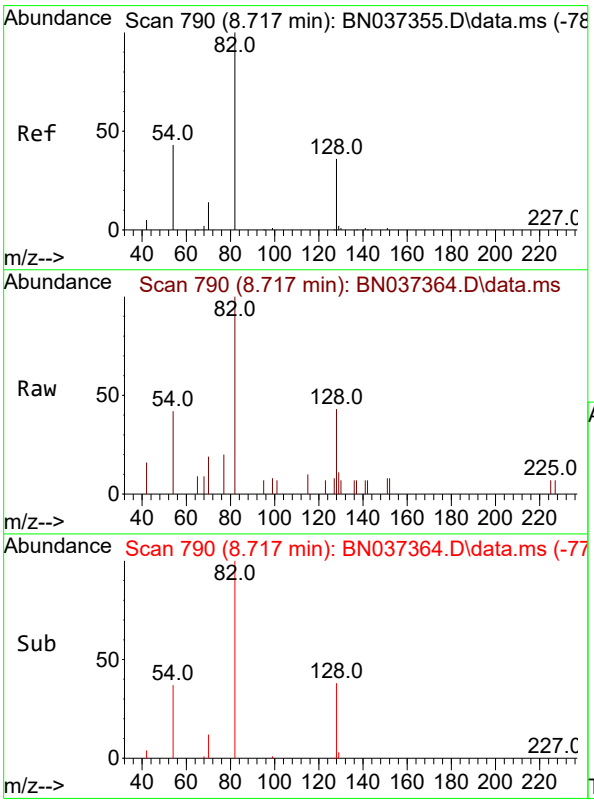
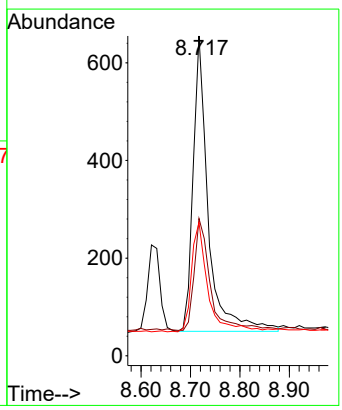
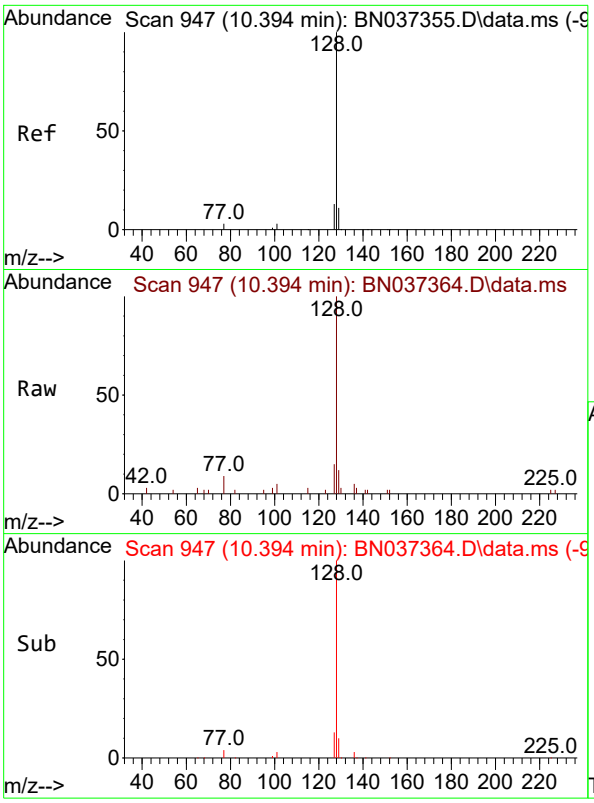


#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 82 Resp: 1284

Ion	Ratio	Lower	Upper
82	100		
128	42.9	42.5	63.7
54	41.7	43.2	64.8#





#9
Naphthalene
Concen: 0.372 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:128 Resp: 402

Ion	Ratio	Lower	Upper
128	100		
129	12.4	14.0	21.0#
127	14.9	15.8	23.8#

Instrument :
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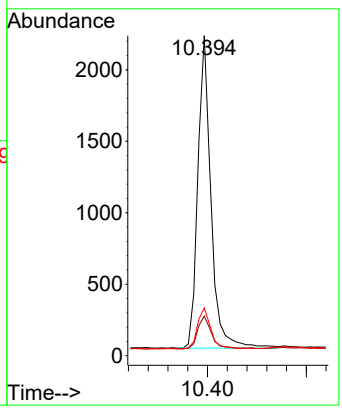
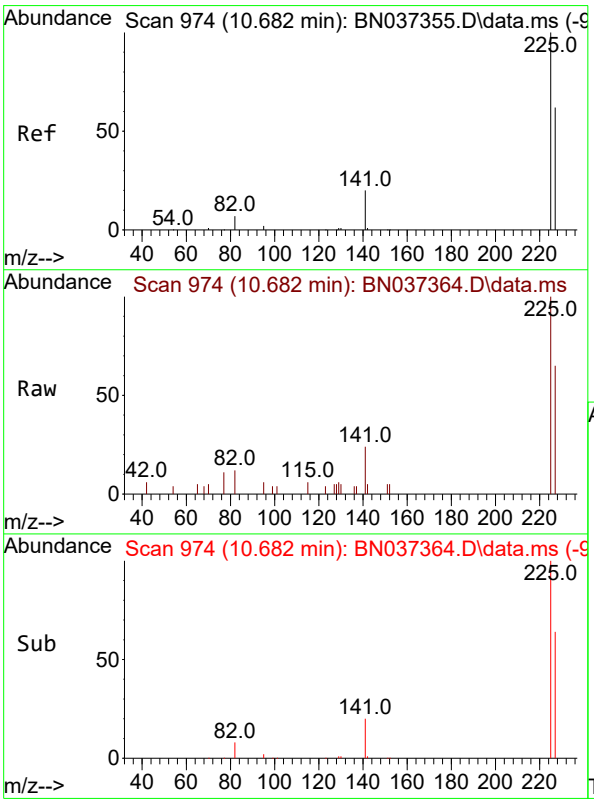
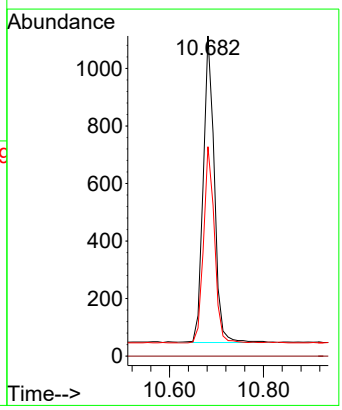


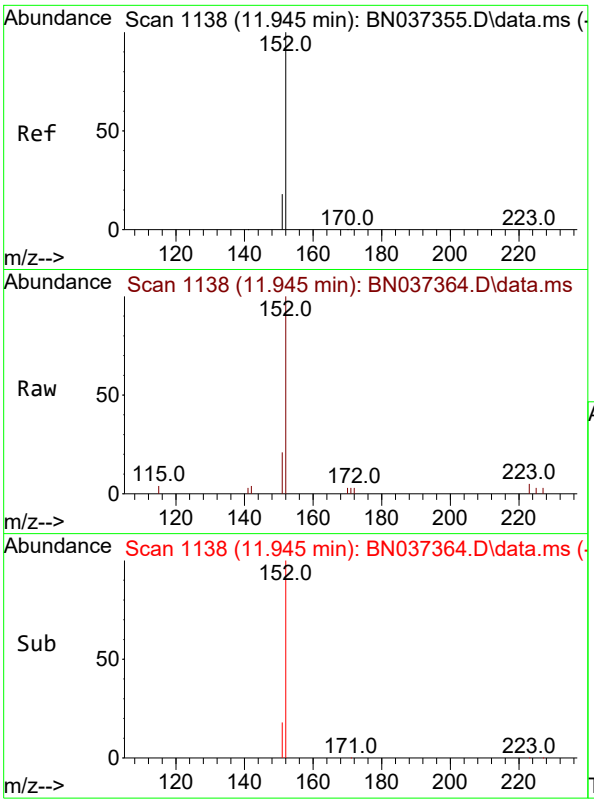


#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:225 Resp: 1748

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	50.3	75.5

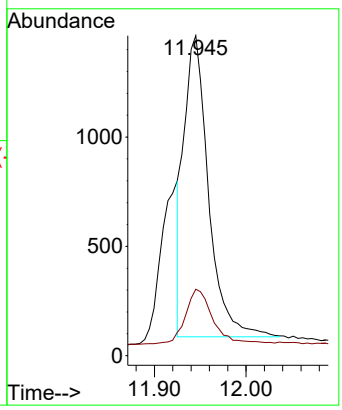




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng m
RT: 11.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:152 Resp: 256

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.4	26.0



Instrument :
BNA_N
ClientSampleId :
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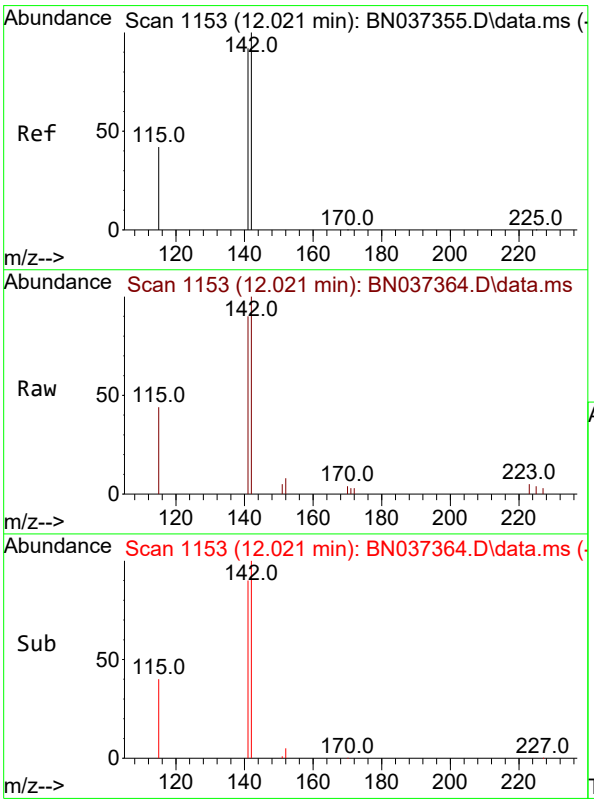
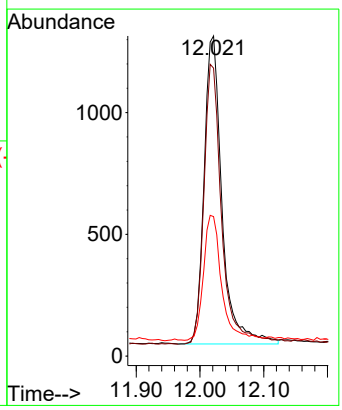
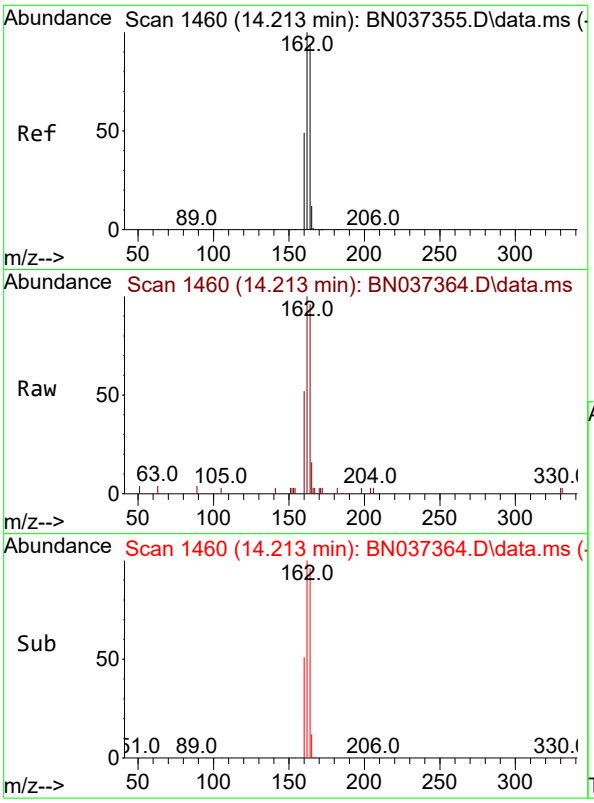


#12
2-Methylnaphthalene
Concen: 0.328 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:142 Resp: 2474

Ion	Ratio	Lower	Upper
142	100		
141	90.0	70.2	105.2
115	43.6	43.0	64.4

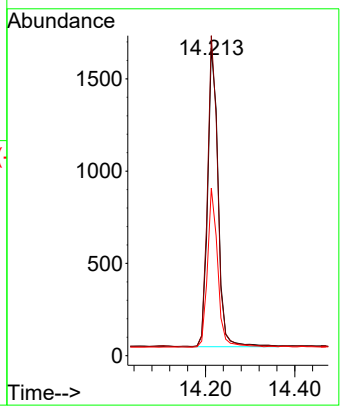




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:164 Resp: 262

Ion	Ratio	Lower	Upper
164	100		
162	104.1	81.5	122.3
160	54.5	43.0	64.4



Instrument :
BNA_N
ClientSampleId :
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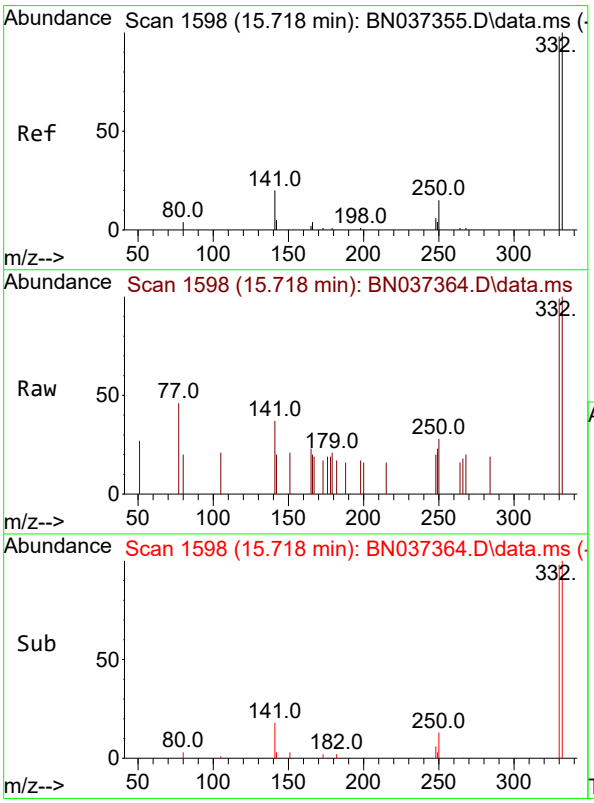
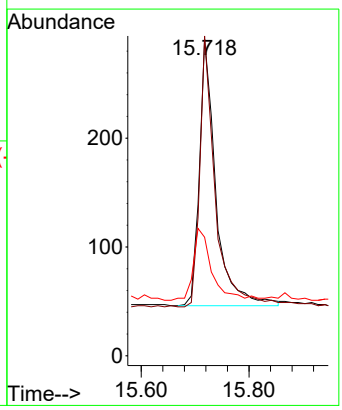
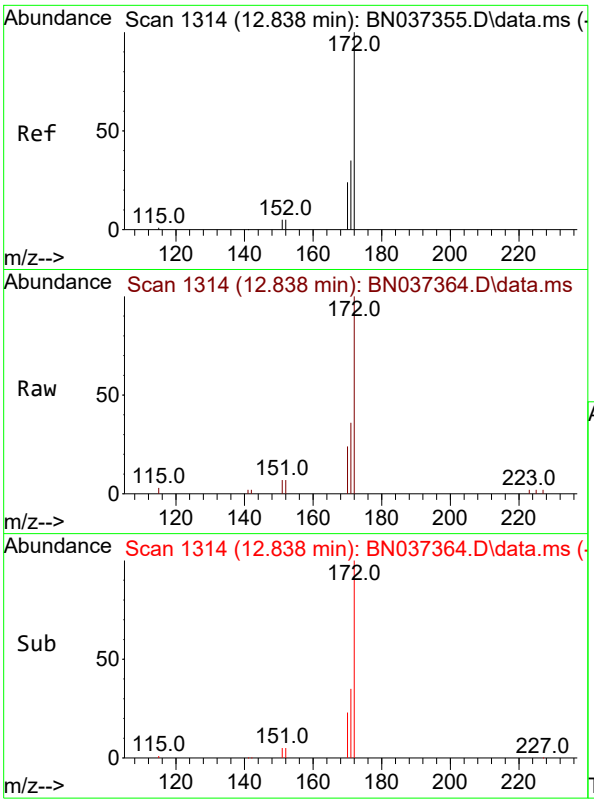


#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:330 Resp: 522

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.4	117.6
141	30.7	24.4	36.6

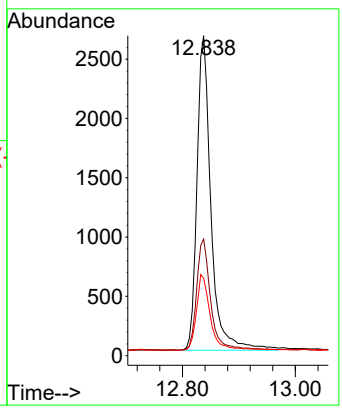




#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.838 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:172 Resp: 457

Ion	Ratio	Lower	Upper
172	100		
171	36.5	30.8	46.2
170	24.2	21.9	32.9



Instrument :
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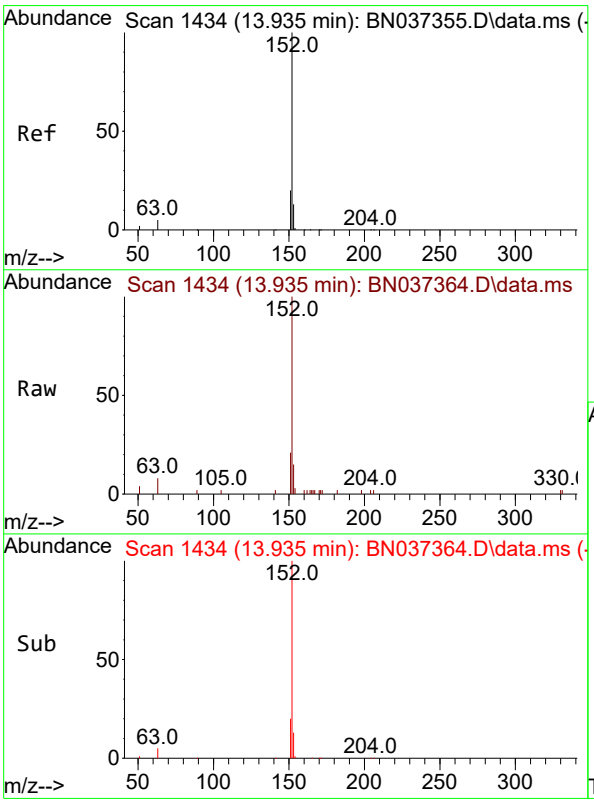
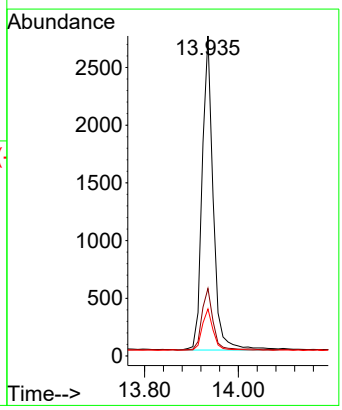
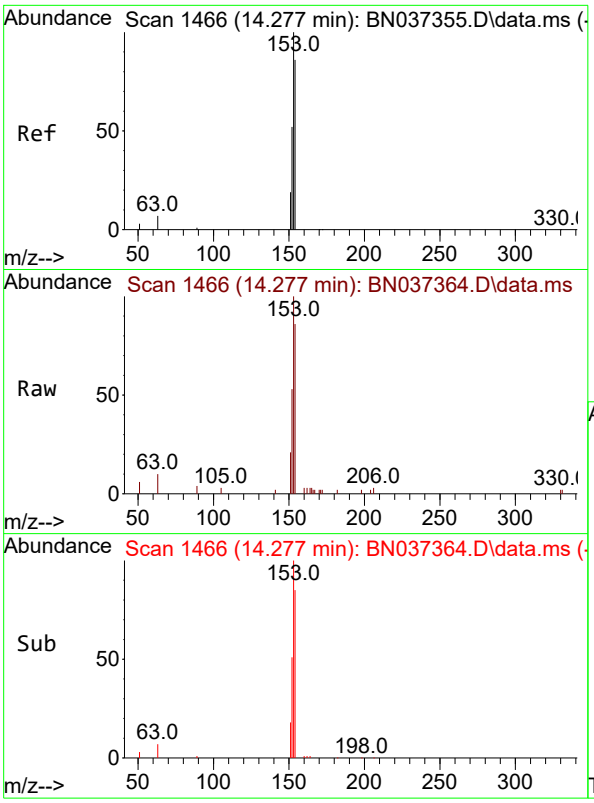


#16
Acenaphthylene
Concen: 0.403 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:152 Resp: 4445

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.6	24.8
153	13.3	10.2	15.2

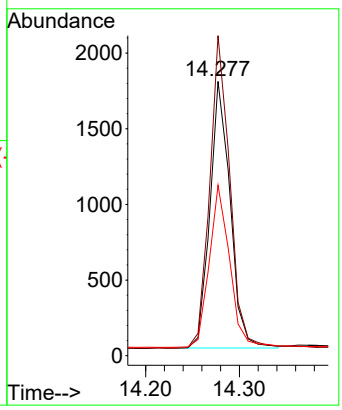




#17
Acenaphthene
Concen: 0.364 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:154 Resp: 264

Ion	Ratio	Lower	Upper
154	100		
153	118.2	93.1	139.7
152	62.7	48.6	73.0



Instrument :
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ClientSampleId :
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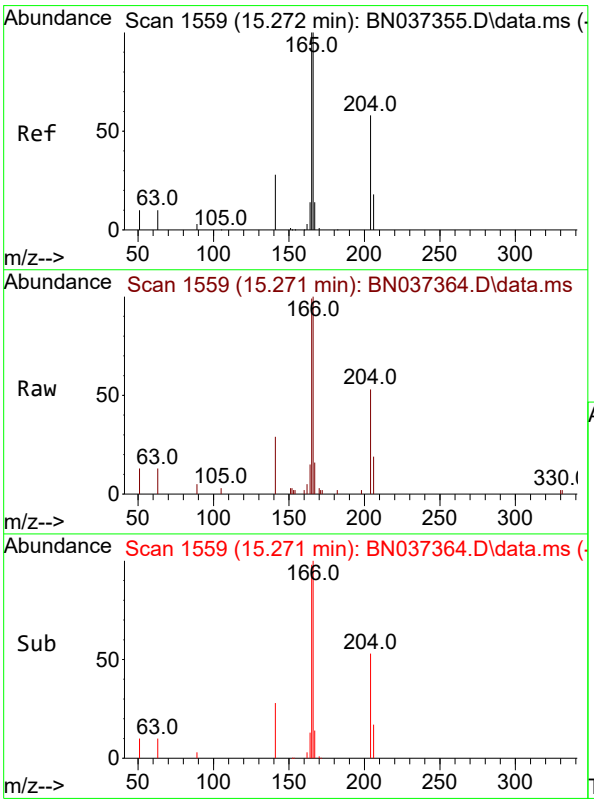
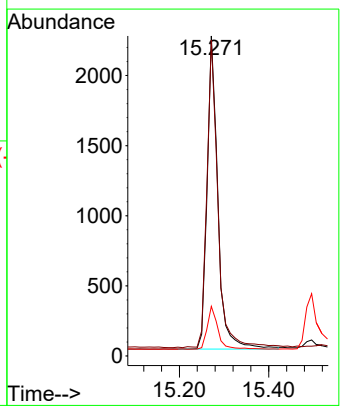
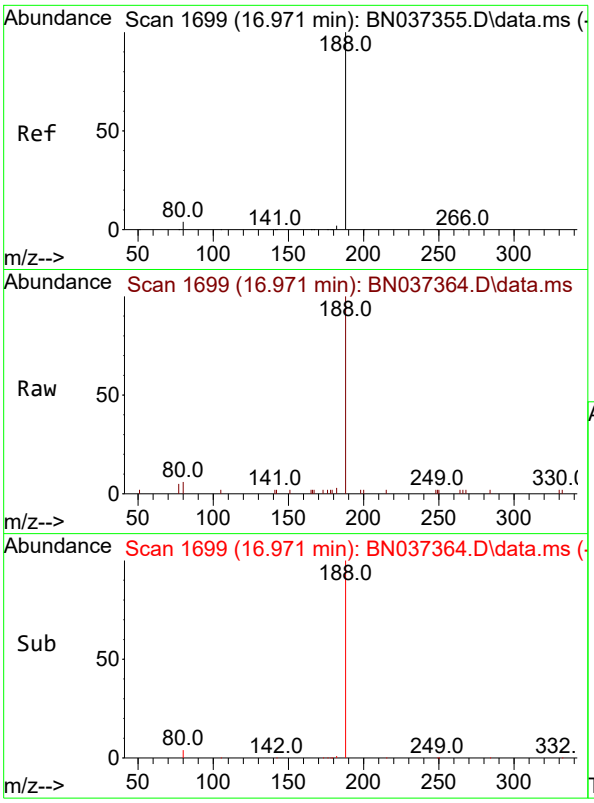


#18
Fluorene
Concen: 0.364 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:166 Resp: 3709

Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.5	119.3
167	13.8	10.7	16.1

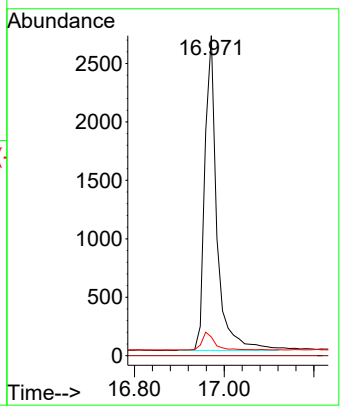




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:188 Resp: 503

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.9	6.2	9.2#



Instrument :
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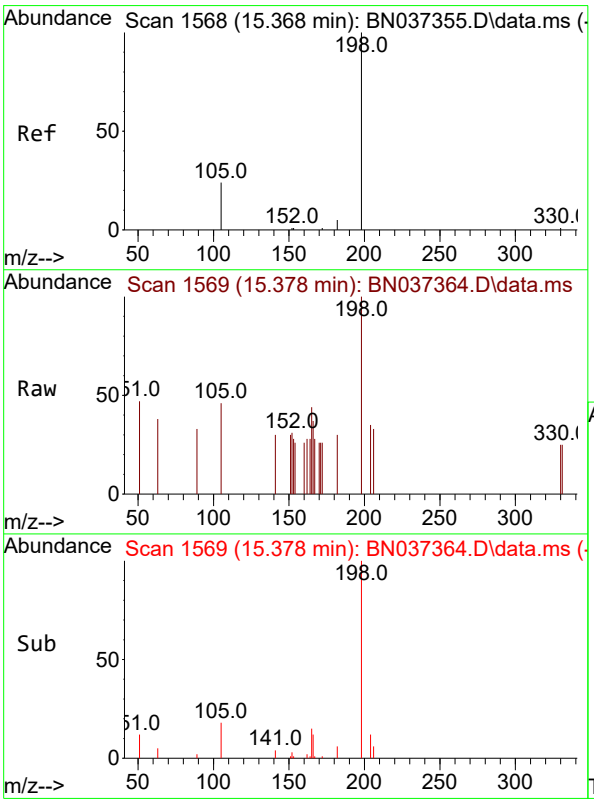
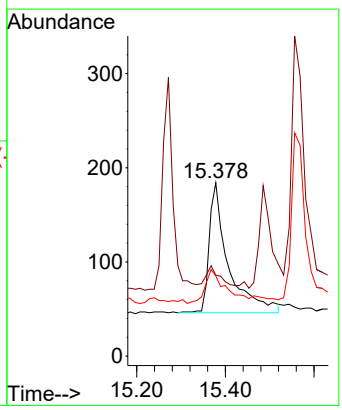
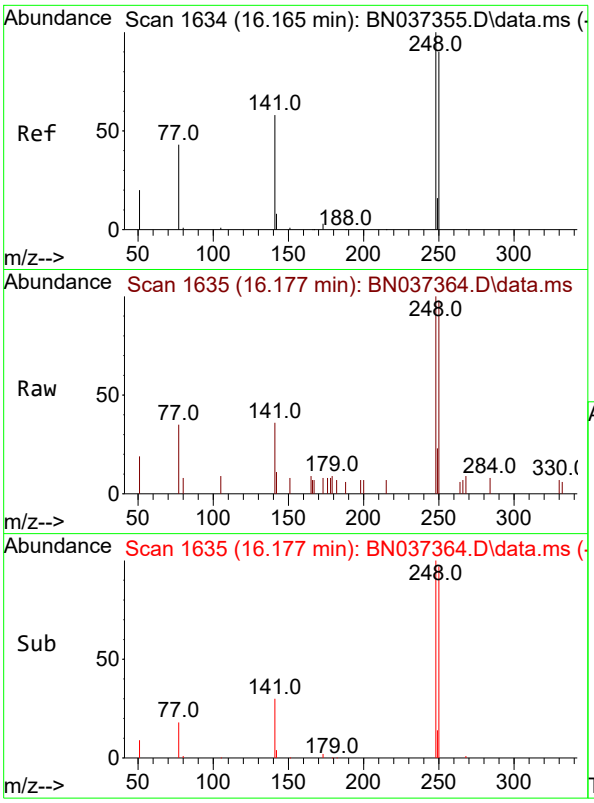


#20
4,6-Dinitro-2-methylphenol
Concen: 0.346 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:198 Resp: 419

Ion	Ratio	Lower	Upper
198	100		
51	46.7	51.4	77.0#
105	46.2	45.5	68.3





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:248 Resp: 134

Ion	Ratio	Lower	Upper
248	100		
250	98.2	80.4	120.6
141	35.7	33.3	49.9

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

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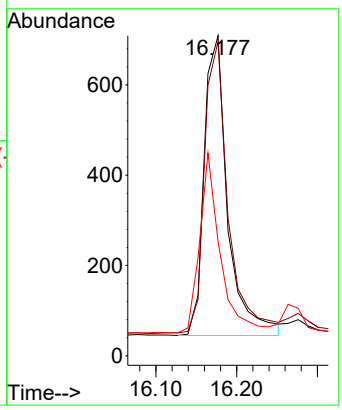
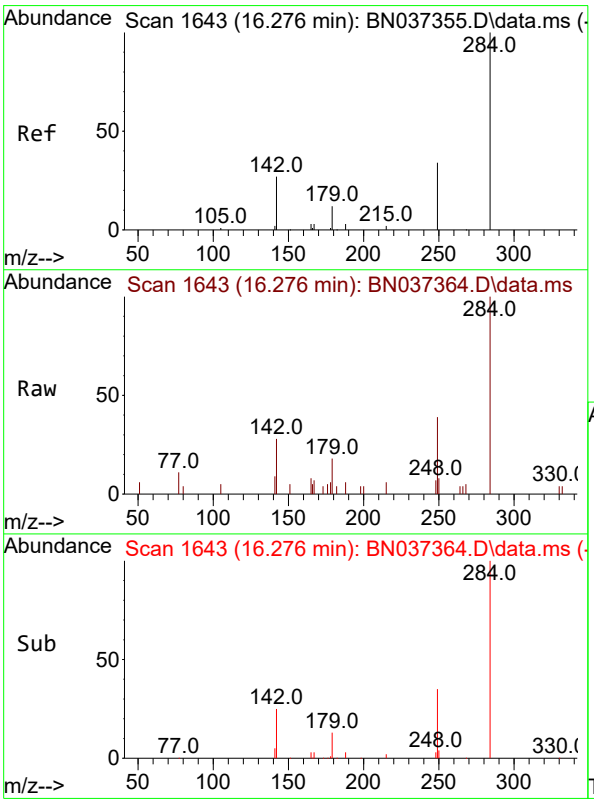
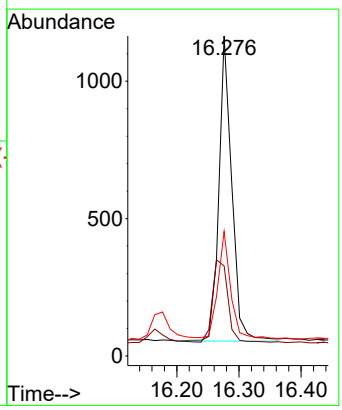


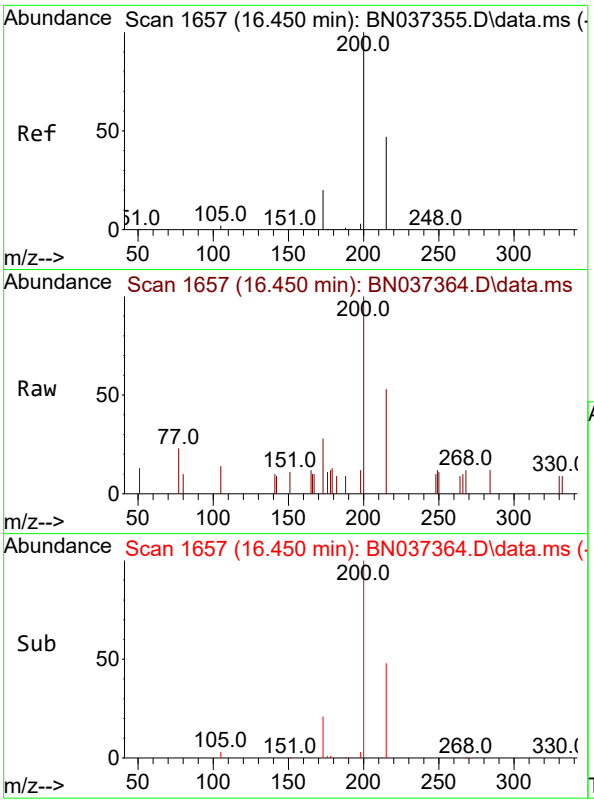


#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:284 Resp: 1596

Ion	Ratio	Lower	Upper
284	100		
142	33.3	27.0	40.6
249	35.8	28.8	43.2

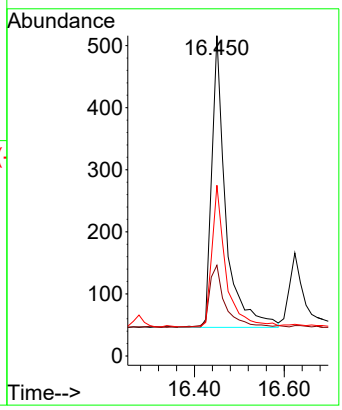




#23
Atrazine
Concen: 0.354 ng
RT: 16.450 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:200 Resp: 101

Ion	Ratio	Lower	Upper
200	100		
173	28.3	29.2	43.8#
215	53.3	48.8	73.2



Instrument :
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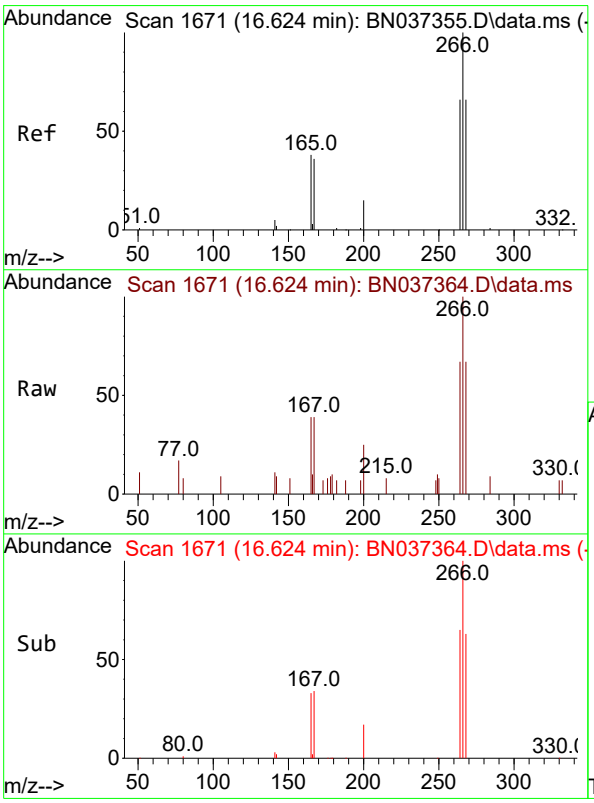
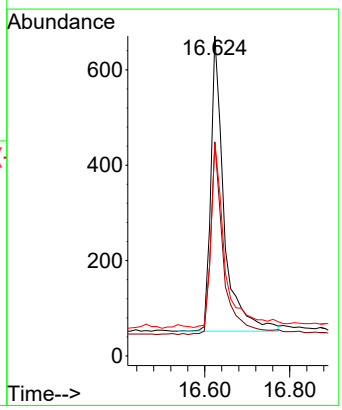
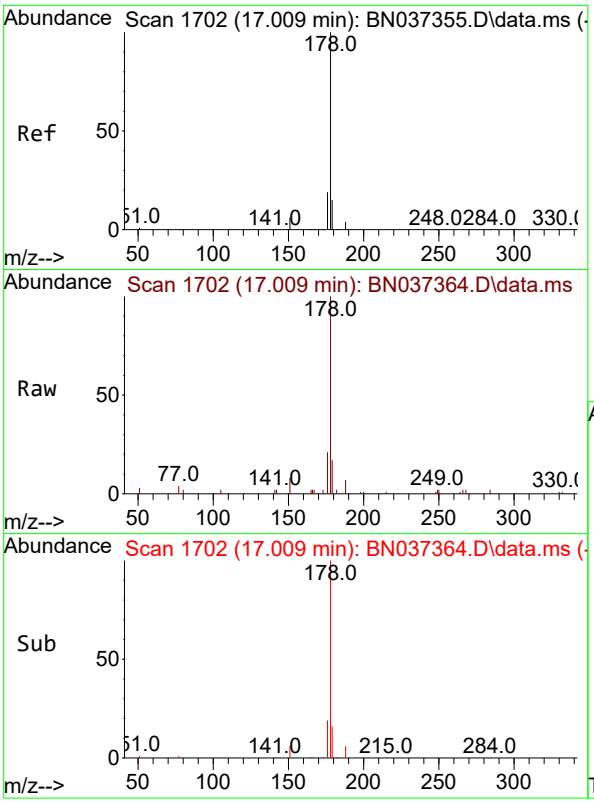


#24
Pentachlorophenol
Concen: 0.688 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:266 Resp: 1337

Ion	Ratio	Lower	Upper
266	100		
264	62.5	50.3	75.5
268	65.4	55.3	82.9

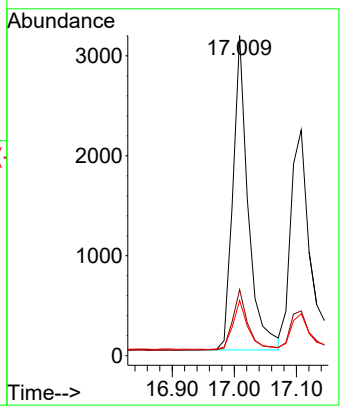




#25
Phenanthrene
Concen: 0.368 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:178 Resp: 537

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.8	12.9	19.3



Instrument :
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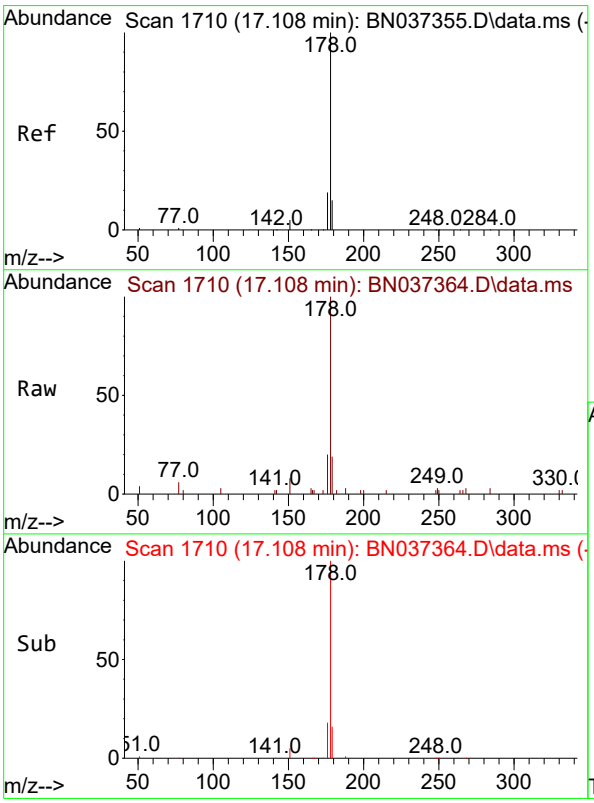
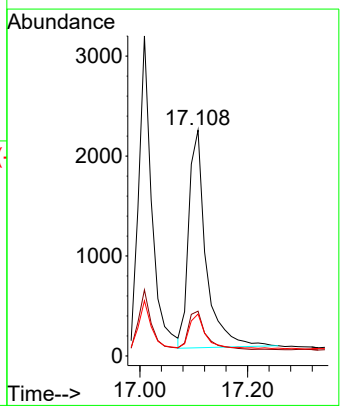
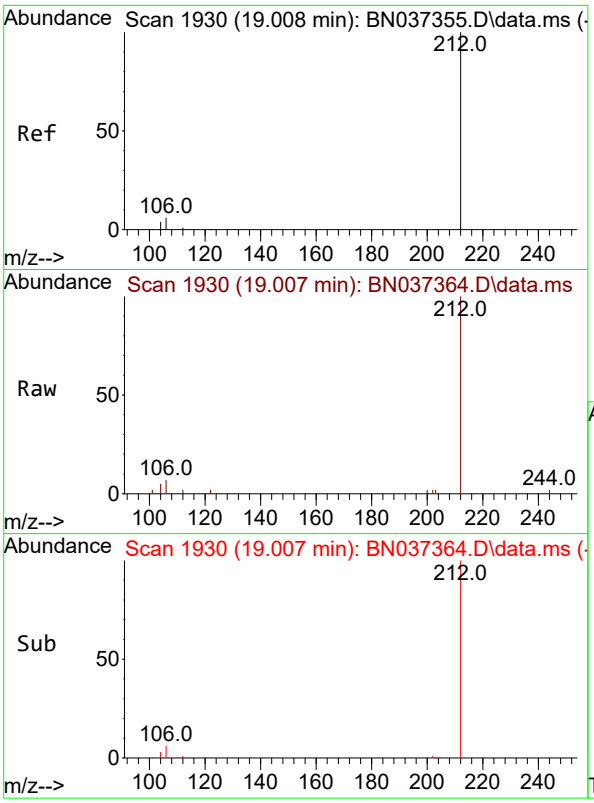


#26
Anthracene
Concen: 0.362 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:178 Resp: 4862

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.5	13.0	19.6





#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.007 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
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Tgt Ion:212 Resp: 500

Ion	Ratio	Lower	Upper
212	100		
106	6.2	3.0	4.4#
104	3.7	2.0	3.0#

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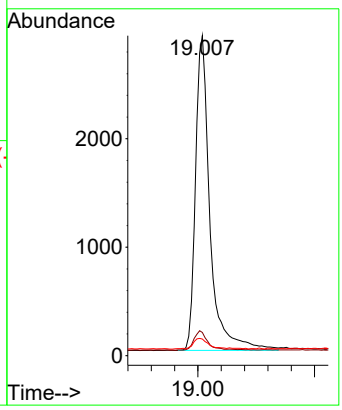
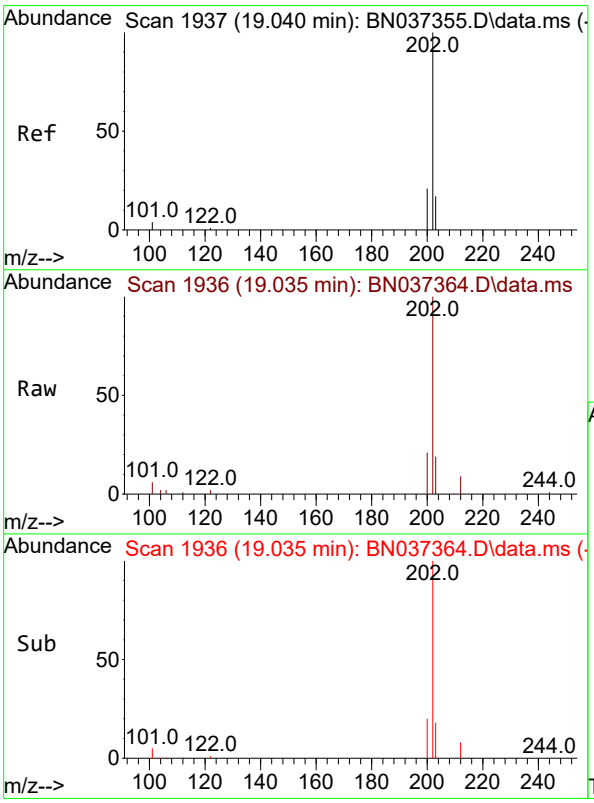
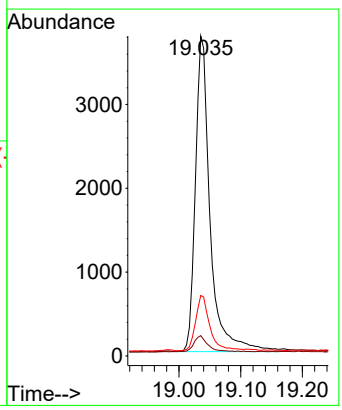


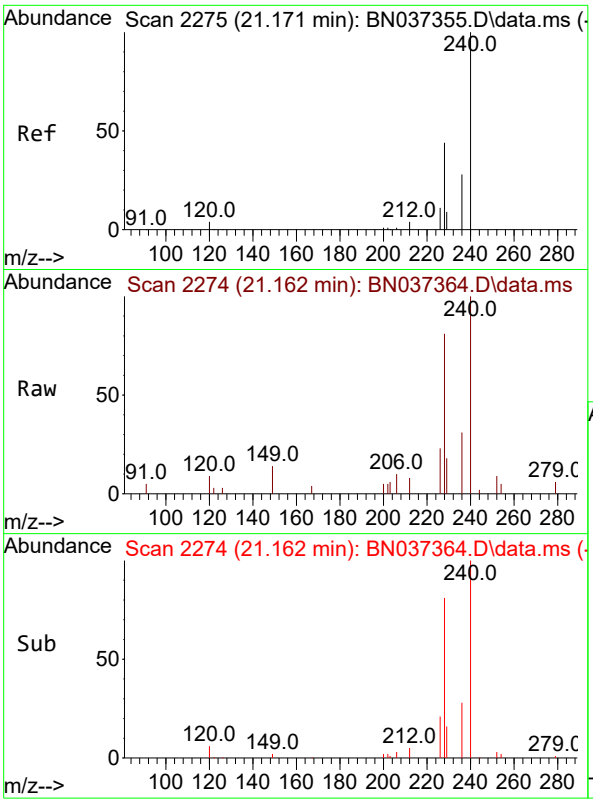


#28
Fluoranthene
Concen: 0.339 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:202 Resp: 6244

Ion	Ratio	Lower	Upper
202	100		
101	4.9	3.0	4.6#
203	16.9	13.7	20.5

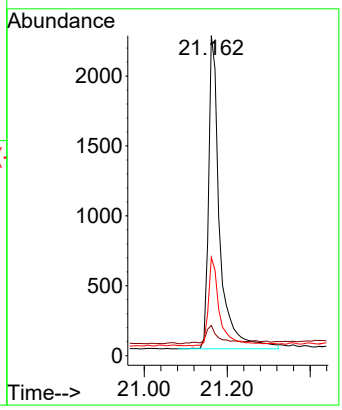




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:240 Resp: 419

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.5	11.3
236	30.7	24.9	37.3



Instrument :
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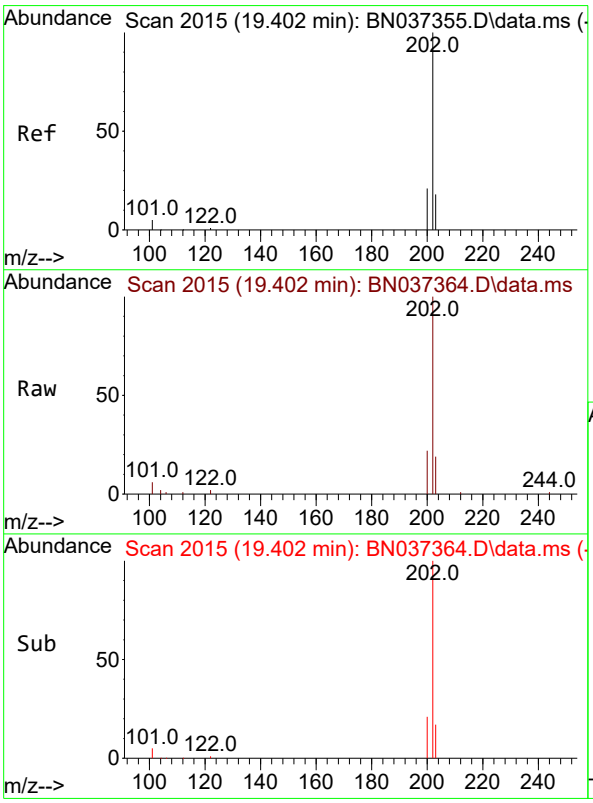
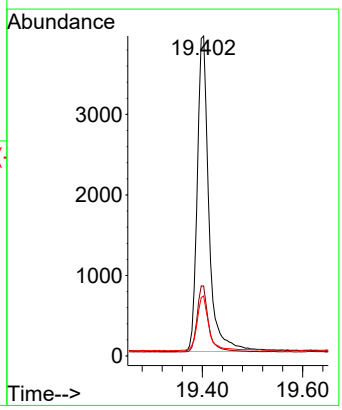
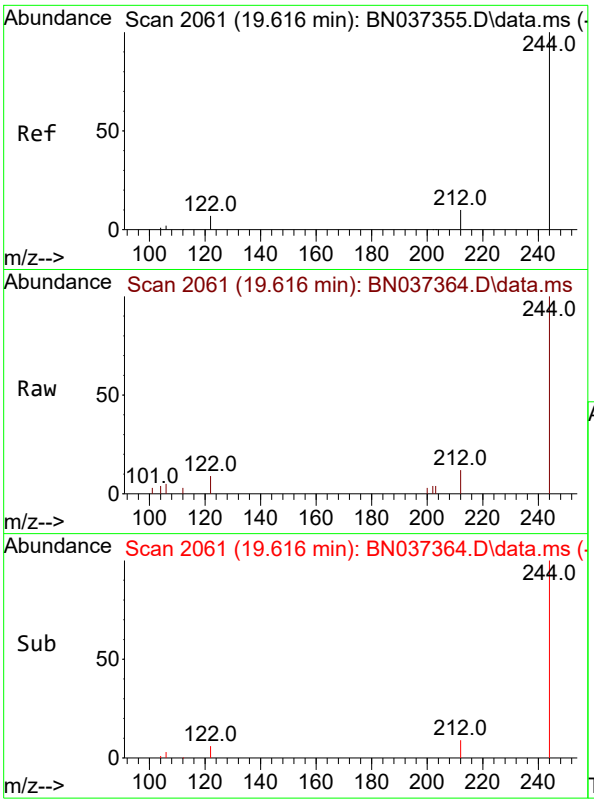


#30
Pyrene
Concen: 0.373 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:202 Resp: 6351

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.8	25.2
203	18.4	14.5	21.7

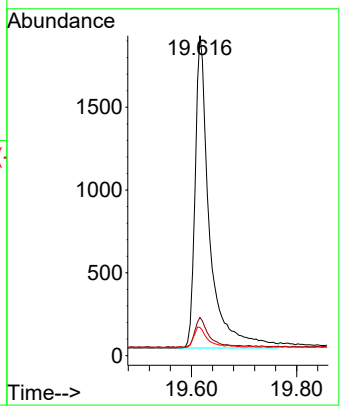




#31
Terphenyl-d14
Concen: 0.375 ng
RT: 19.616 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:244 Resp: 358

Ion	Ratio	Lower	Upper
244	100		
212	12.0	11.1	16.7
122	8.8	7.2	10.8



Instrument :
BNA_N
ClientSampleId :
PB168563BSD

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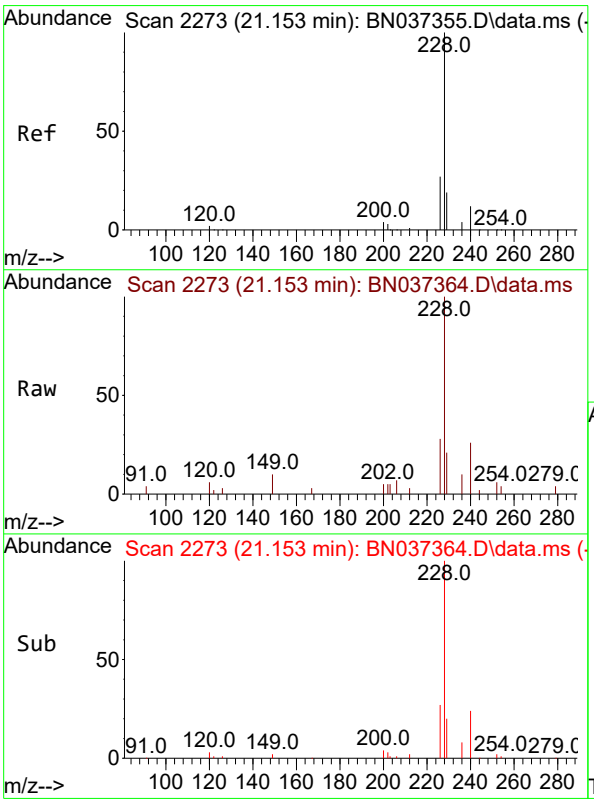
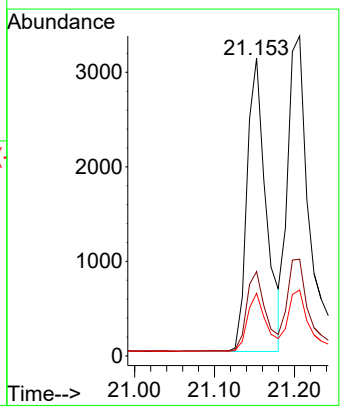
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

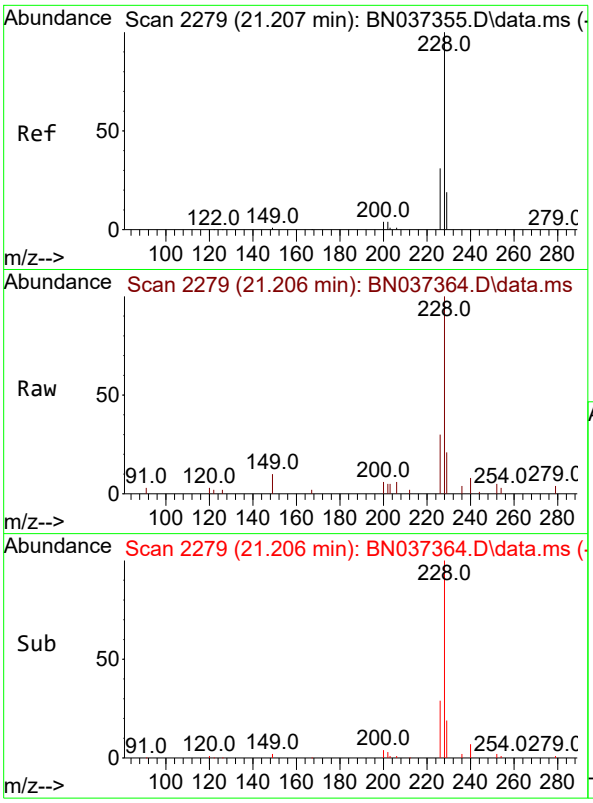


#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:228 Resp: 5141

Ion	Ratio	Lower	Upper
228	100		
226	28.4	23.0	34.4
229	21.1	17.4	26.0

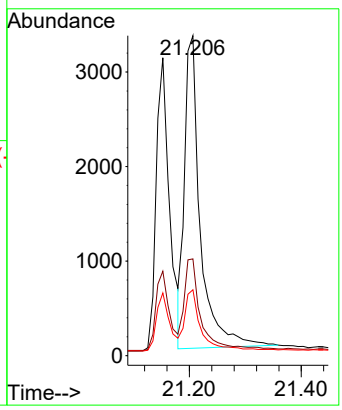




#33
Chrysene
Concen: 0.387 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:228 Resp: 647

Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.4	38.2
229	20.6	17.3	25.9



Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Manual Integrations
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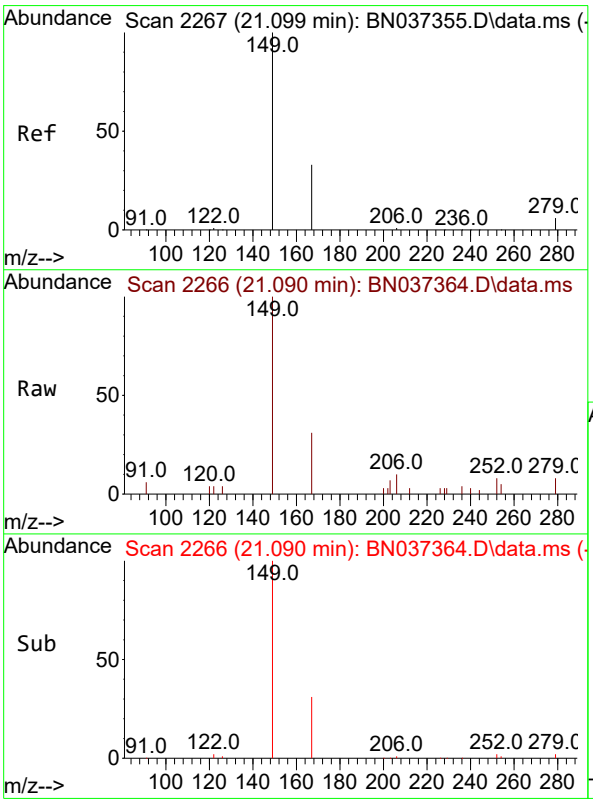
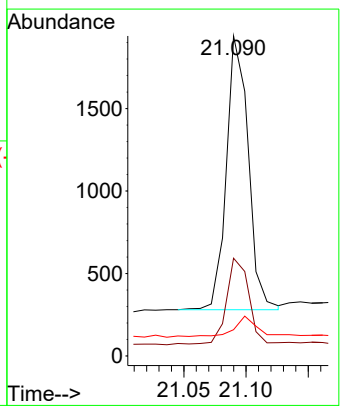
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

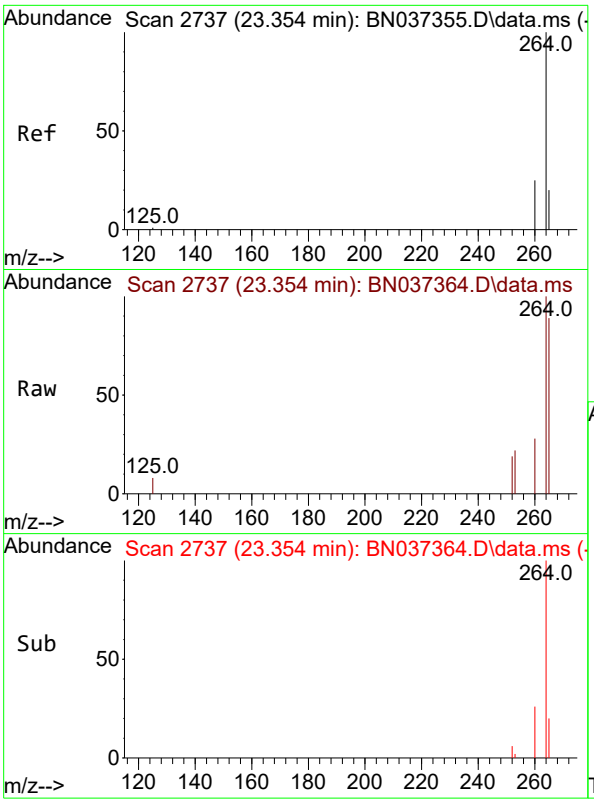


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.358 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:149 Resp: 2023

Ion	Ratio	Lower	Upper
149	100		
167	32.9	24.6	37.0
279	9.0	6.5	9.7





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:264 Resp: 447

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.4	32.2
265	89.4	71.4	107.0

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Manual Integrations
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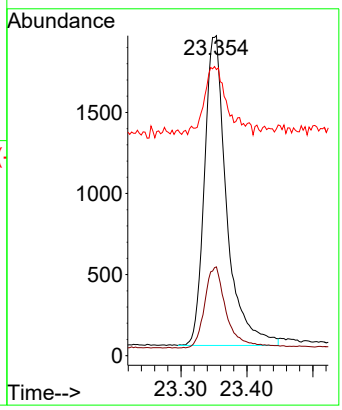
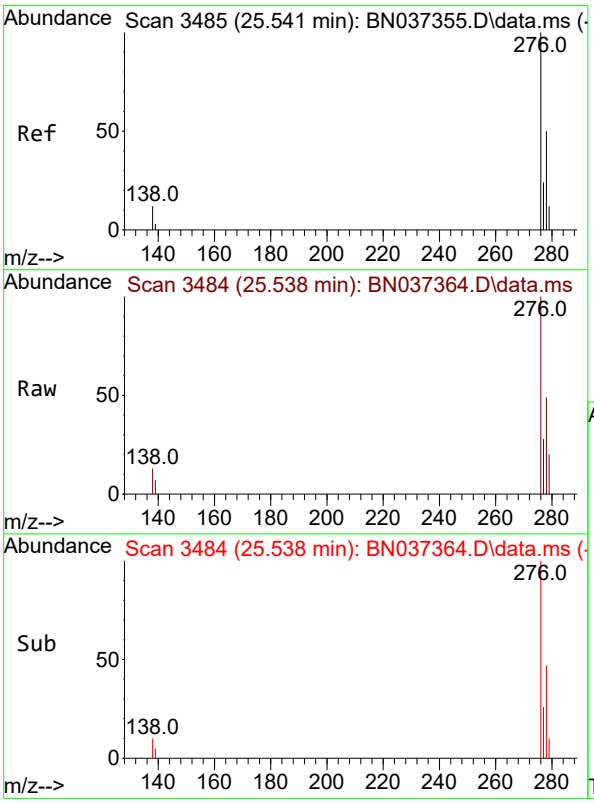
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

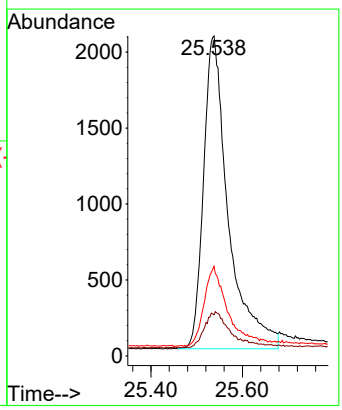


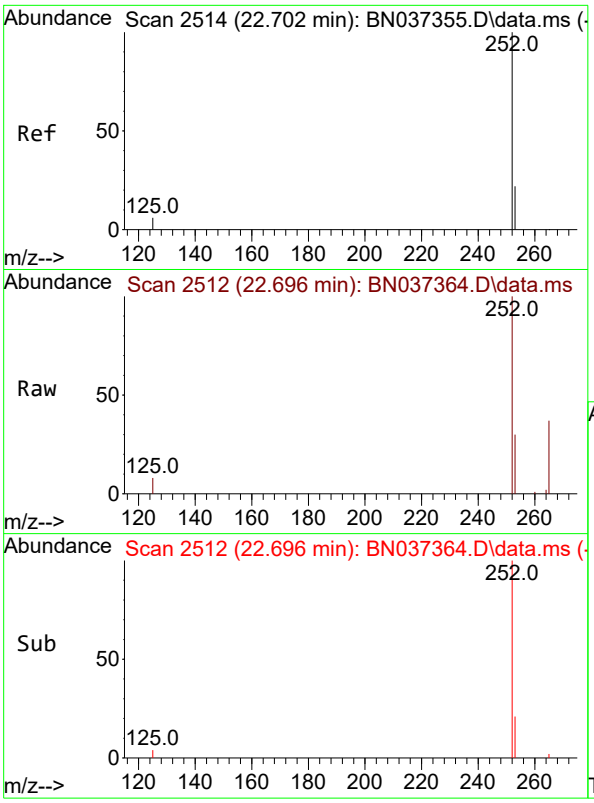


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.538 min Scan# 3484
Delta R.T. -0.003 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:276 Resp: 7744

Ion	Ratio	Lower	Upper
276	100		
138	10.7	2.2	3.2#
277	24.0	17.1	25.7

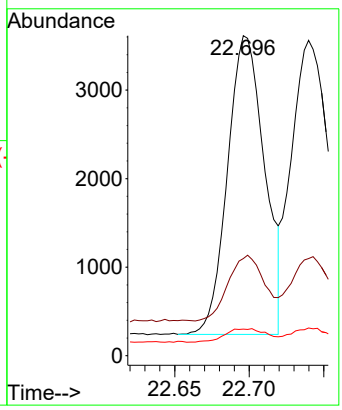




#37
Benzo(b)fluoranthene
Concen: 0.355 ng
RT: 22.696 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:252 Resp: 583

Ion	Ratio	Lower	Upper
252	100		
253	30.4	26.6	40.0
125	8.3	6.1	9.1



Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Manual Integrations
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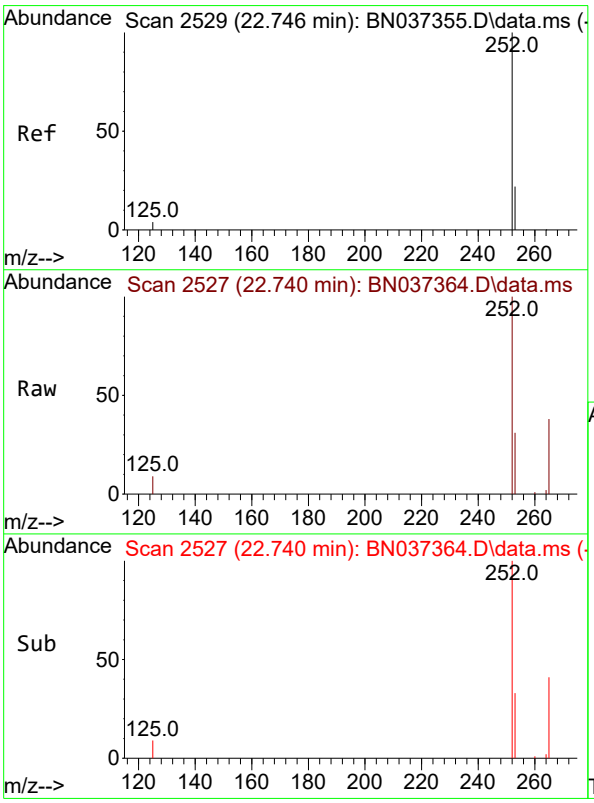
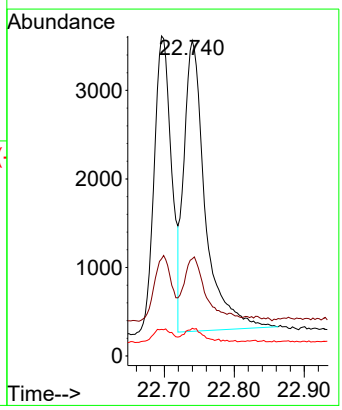
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

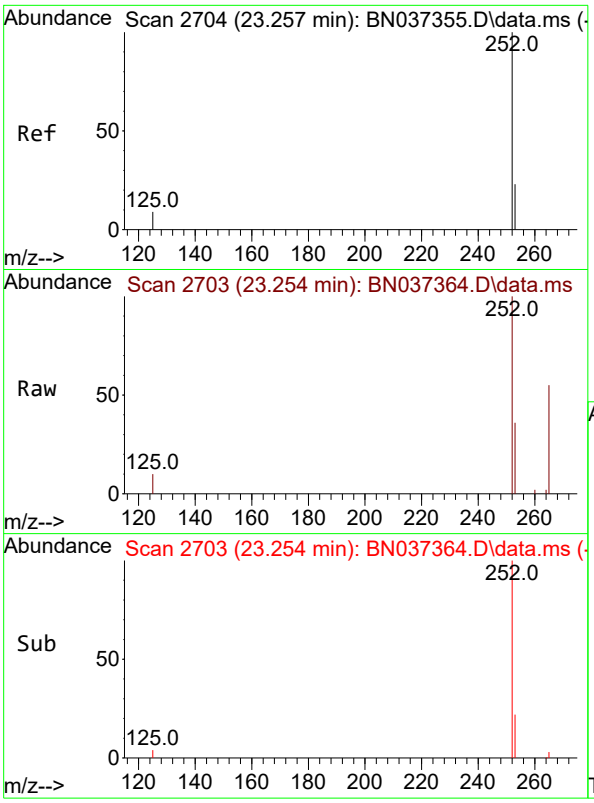


#38
Benzo(k)fluoranthene
Concen: 0.389 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:252 Resp: 6945

Ion	Ratio	Lower	Upper
252	100		
253	30.8	26.7	40.1
125	8.8	6.5	9.7

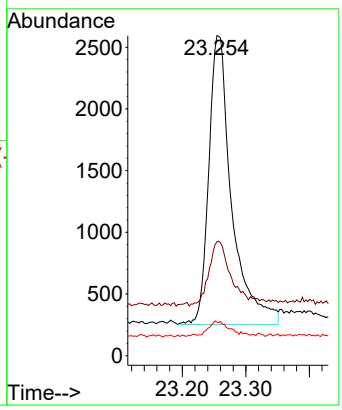




#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.254 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:252 Resp: 588

Ion	Ratio	Lower	Upper
252	100		
253	35.6	31.6	47.4
125	10.5	8.4	12.6



Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Manual Integrations
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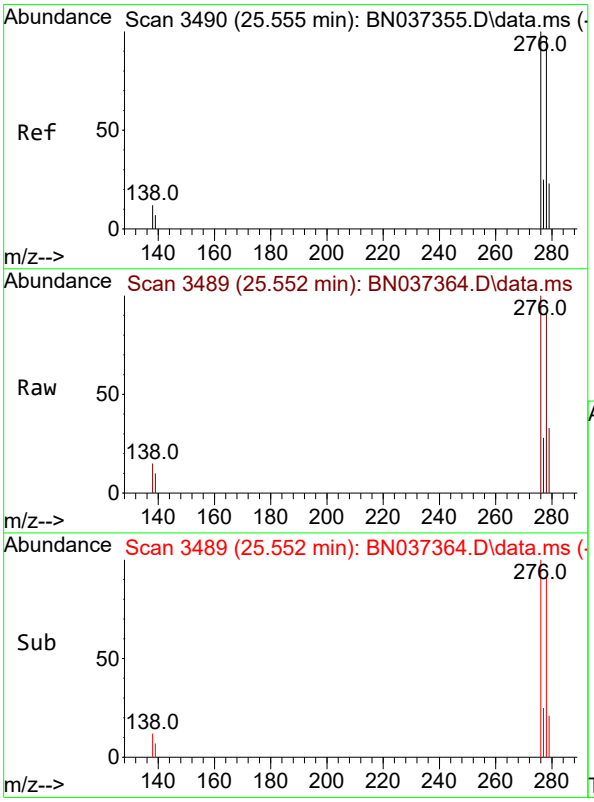
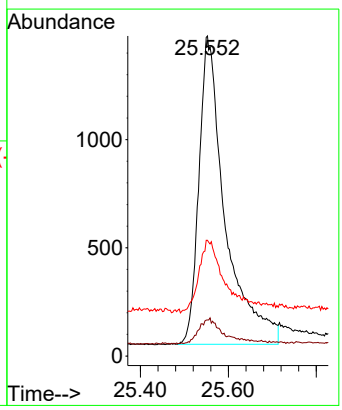
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

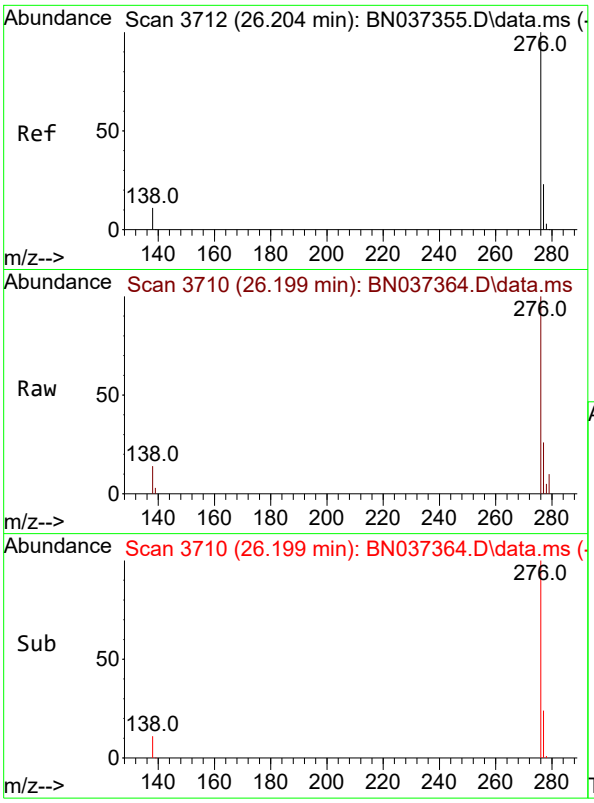


#40
Dibenzo(a,h)anthracene
Concen: 0.392 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.003 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:278 Resp: 5912

Ion	Ratio	Lower	Upper
278	100		
139	11.3	10.2	15.4
279	36.2	35.6	53.4

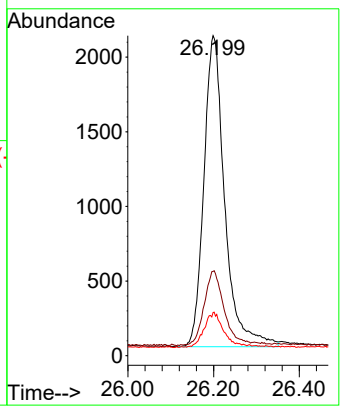




#41
Benzo(g,h,i)perylene
Concen: 0.393 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:276 Resp: 703

Ion	Ratio	Lower	Upper
276	100		
277	26.4	22.7	34.1
138	13.5	9.4	14.2



Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

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

Manual Integration Report

Sequence:	BN062125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC0.4	BN037355.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:50 PM	Jagrut	6/24/2025 3:19:09 PM	Peak Integrated by Software
SSTDICV0.4	BN037360.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:53 PM	Jagrut	6/24/2025 3:19:11 PM	Peak Integrated by Software
PB168563BSD	BN037364.D	2-Methylnaphthalene-d10	Rahul	6/23/2025 4:45:56 PM	Jagrut	6/24/2025 3:19:14 PM	Peak Integrated by Software
SSTDCCC0.4	BN037365.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:59 PM	Jagrut	6/24/2025 3:19:16 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN062625	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN037386.D	Nitrobenzene-d5	Rahul	6/27/2025 12:01:52 PM	Jagrut	6/27/2025 12:02:28 PM	Peak Integrated by Software

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN062125

Review By	Rahul	Review On	6/24/2025 9:00:26 AM		
Supervise By	Jagrut	Supervise On	6/24/2025 3:20:40 PM		
SubDirectory	BN062125	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn062125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037351.D	20 Jun 2025 15:00	RC/JU	Ok
2	SSTDCCC0.4	BN037352.D	20 Jun 2025 16:15	RC/JU	Not Ok
3	SSTDICC0.1	BN037353.D	20 Jun 2025 16:51	RC/JU	Ok
4	SSTDICC0.2	BN037354.D	20 Jun 2025 17:27	RC/JU	Ok
5	SSTDICCC0.4	BN037355.D	20 Jun 2025 18:03	RC/JU	Ok,M
6	SSTDICC0.8	BN037356.D	20 Jun 2025 18:39	RC/JU	Ok
7	SSTDICC1.6	BN037357.D	20 Jun 2025 19:15	RC/JU	Ok
8	SSTDICC3.2	BN037358.D	20 Jun 2025 19:51	RC/JU	Ok
9	SSTDICC5.0	BN037359.D	20 Jun 2025 20:27	RC/JU	Ok
10	SSTDICV0.4	BN037360.D	20 Jun 2025 21:39	RC/JU	Ok,M
11	PB168563BL	BN037361.D	20 Jun 2025 22:16	RC/JU	Ok
12	Q2377-01	BN037362.D	20 Jun 2025 22:52	RC/JU	Ok
13	PB168563BS	BN037363.D	20 Jun 2025 23:28	RC/JU	Ok
14	PB168563BSD	BN037364.D	21 Jun 2025 00:04	RC/JU	Ok,M
15	SSTDCCC0.4	BN037365.D	21 Jun 2025 01:17	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM		
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM		
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn062625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037385.D	26 Jun 2025 10:01	RC/JU	Ok
2	SSTDICC0.1	BN037386.D	26 Jun 2025 10:41	RC/JU	Ok,M
3	SSTDICC0.2	BN037387.D	26 Jun 2025 11:17	RC/JU	Ok
4	SSTDICCC0.4	BN037388.D	26 Jun 2025 11:53	RC/JU	Ok
5	SSTDICC0.8	BN037389.D	26 Jun 2025 12:29	RC/JU	Ok
6	SSTDICC1.6	BN037390.D	26 Jun 2025 13:05	RC/JU	Ok
7	SSTDICC3.2	BN037391.D	26 Jun 2025 13:41	RC/JU	Ok
8	SSTDICC5.0	BN037392.D	26 Jun 2025 14:17	RC/JU	Ok
9	SSTDICV0.4	BN037393.D	26 Jun 2025 14:54	RC/JU	Ok
10	PB168563BL	BN037394.D	26 Jun 2025 15:30	RC/JU	Not Ok
11	Q2345-01	BN037395.D	26 Jun 2025 16:06	RC/JU	Ok,M
12	Q2345-13	BN037396.D	26 Jun 2025 16:42	RC/JU	Dilution
13	Q2345-14	BN037397.D	26 Jun 2025 17:18	RC/JU	Ok
14	Q2345-15	BN037398.D	26 Jun 2025 17:54	RC/JU	Ok
15	Q2345-16	BN037399.D	26 Jun 2025 18:30	RC/JU	Ok
16	Q2361-01	BN037400.D	26 Jun 2025 19:06	RC/JU	Ok
17	SSTDCCC0.4	BN037401.D	26 Jun 2025 19:42	RC/JU	Ok
18	DFTPP	BN037402.D	26 Jun 2025 20:19	RC/JU	Ok
19	SSTDCCC0.4	BN037403.D	26 Jun 2025 21:38	RC/JU	Ok
20	PB167430BL	BN037404.D	26 Jun 2025 22:14	RC/JU	Ok
21	Q2372-01	BN037405.D	26 Jun 2025 22:50	RC/JU	ReRun

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM		
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM		
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn062625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2373-01	BN037406.D	26 Jun 2025 23:27	RC/JU	Not Ok
23	Q2373-02	BN037407.D	27 Jun 2025 00:03	RC/JU	Ok
24	Q2373-03	BN037408.D	27 Jun 2025 00:40	RC/JU	Ok
25	Q2374-01	BN037409.D	27 Jun 2025 01:16	RC/JU	Ok
26	Q2374-02	BN037410.D	27 Jun 2025 01:52	RC/JU	Ok
27	Q2374-03	BN037411.D	27 Jun 2025 02:29	RC/JU	Ok
28	Q2374-04	BN037412.D	27 Jun 2025 03:05	RC/JU	Ok
29	Q2375-01	BN037413.D	27 Jun 2025 03:41	RC/JU	Ok
30	Q2375-02	BN037414.D	27 Jun 2025 04:18	RC/JU	Ok
31	SSTDCCC0.4	BN037415.D	27 Jun 2025 04:54	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN062125

Review By	Rahul	Review On	6/24/2025 9:00:26 AM	
Supervise By	Jagrut	Supervise On	6/24/2025 3:20:40 PM	
SubDirectory	BN062125	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn062125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037351.D	20 Jun 2025 15:00		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037352.D	20 Jun 2025 16:15	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037353.D	20 Jun 2025 16:51		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037354.D	20 Jun 2025 17:27		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037355.D	20 Jun 2025 18:03	Calibration is good for DOD and nondod	RC/JU	Ok,M
6	SSTDICC0.8	SSTDICC0.8	BN037356.D	20 Jun 2025 18:39		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037357.D	20 Jun 2025 19:15		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037358.D	20 Jun 2025 19:51		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037359.D	20 Jun 2025 20:27		RC/JU	Ok
10	SSTDICV0.4	ICVBN062125	BN037360.D	20 Jun 2025 21:39		RC/JU	Ok,M
11	PB168563BL	PB168563BL	BN037361.D	20 Jun 2025 22:16		RC/JU	Ok
12	Q2377-01	PW-B6-L66-061925	BN037362.D	20 Jun 2025 22:52		RC/JU	Ok
13	PB168563BS	PB168563BS	BN037363.D	20 Jun 2025 23:28	.	RC/JU	Ok
14	PB168563BSD	PB168563BSD	BN037364.D	21 Jun 2025 00:04		RC/JU	Ok,M
15	SSTDCCC0.4	SSTDCCC0.4EC	BN037365.D	21 Jun 2025 01:17		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 # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM	
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM	
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn062625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037385.D	26 Jun 2025 10:01		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037386.D	26 Jun 2025 10:41		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN037387.D	26 Jun 2025 11:17		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037388.D	26 Jun 2025 11:53		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037389.D	26 Jun 2025 12:29		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037390.D	26 Jun 2025 13:05		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037391.D	26 Jun 2025 13:41		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037392.D	26 Jun 2025 14:17		RC/JU	Ok
9	SSTDICV0.4	ICVBN062625	BN037393.D	26 Jun 2025 14:54		RC/JU	Ok
10	PB168563BL	PB168563BL	BN037394.D	26 Jun 2025 15:30	Not Used	RC/JU	Not Ok
11	Q2345-01	EB02-20250616	BN037395.D	26 Jun 2025 16:06		RC/JU	Ok,M
12	Q2345-13	TT189D2-20250617	BN037396.D	26 Jun 2025 16:42	Need 2X dilutiion	RC/JU	Dilution
13	Q2345-14	TT150S1-20250617	BN037397.D	26 Jun 2025 17:18		RC/JU	Ok
14	Q2345-15	RW8-MW01D1-202506	BN037398.D	26 Jun 2025 17:54		RC/JU	Ok
15	Q2345-16	TT192D2-20250617	BN037399.D	26 Jun 2025 18:30		RC/JU	Ok
16	Q2361-01	TT205S1-20250617	BN037400.D	26 Jun 2025 19:06		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN037401.D	26 Jun 2025 19:42		RC/JU	Ok
18	DFTPP	DFTPP	BN037402.D	26 Jun 2025 20:19		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM	
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM	
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn062625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC0.4	SSTDCCC0.4	BN037403.D	26 Jun 2025 21:38		RC/JU	Ok
20	PB167430BL	PB167430BL	BN037404.D	26 Jun 2025 22:14	Analyzed for contamination check	RC/JU	Ok
21	Q2372-01	GAV1W	BN037405.D	26 Jun 2025 22:50	Internal standard fail	RC/JU	ReRun
22	Q2373-01	RW5-SP100-20250619	BN037406.D	26 Jun 2025 23:27	Internal standard fail & Need 2X Dilution	RC/JU	Not Ok
23	Q2373-02	RW5-SP201-20250619	BN037407.D	27 Jun 2025 00:03		RC/JU	Ok
24	Q2373-03	RW5-SP303-20250619	BN037408.D	27 Jun 2025 00:40		RC/JU	Ok
25	Q2374-01	RW7-SP100-20250619	BN037409.D	27 Jun 2025 01:16		RC/JU	Ok
26	Q2374-02	RW7-SP201-20250619	BN037410.D	27 Jun 2025 01:52		RC/JU	Ok
27	Q2374-03	RW7-SP302-20250619	BN037411.D	27 Jun 2025 02:29		RC/JU	Ok
28	Q2374-04	RW7-SP303-20250619	BN037412.D	27 Jun 2025 03:05		RC/JU	Ok
29	Q2375-01	RW8-SP100-20250619	BN037413.D	27 Jun 2025 03:41		RC/JU	Ok
30	Q2375-02	RW8-SP303-20250619	BN037414.D	27 Jun 2025 04:18		RC/JU	Ok
31	SSTDCCC0.4	SSTDCCC0.4EC	BN037415.D	27 Jun 2025 04:54		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168563

SOP ID:	M3510C,3580A-Extraction SVOC-21				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/20/2025
Matrix :	Water			**Extraction Start Time :**	09:32
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	06/20/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:30
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**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	SP6756
Surrogate	1.0ML	0.4 PPM	SP6831
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	E3943
Baked Na2SO4	N/A	EP2622
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
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# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH. Q2373,Q2374,Q2375 & Q2377 all samples added at 12:03 P.M.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/20/25	RS (EC4 Lab)	RC/SVOC
16:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168563

Analytical Method: M3510C,3580A-Extraction SVOC-21 **Concentration Date:** 06/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168563BL	SBLK563	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			SEP-1
PB168563BS	SLCS563	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			2
PB168563BSD	SLCSD563	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			3
Q2345-01	EB02-20250616	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		4
Q2345-13	TT189D2-2050617	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		5
Q2345-14	TT150S1-2050617	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		6
Q2345-15	RW8-MW01D1-20250617	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		7
Q2345-16	TT192D2-2050617	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		8
Q2361-01	TT205S1-20250617	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		9
Q2372-01	GAV1W	SVOC-SIMGroup1	970	6	RUPESH	ritesh	1	E		10
Q2373-01	RW5-SP100-20250619	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			11
Q2373-02	RW5-SP201-20250619	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			12
Q2373-03	RW5-SP303-20250619	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			13
Q2374-01	RW7-SP100-20250619	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			14
Q2374-02	RW7-SP201-20250619	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			15
Q2374-03	RW7-SP302-20250619	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			16
Q2374-04	RW7-SP303-20250619	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			SEP-1
Q2375-01	RW8-SP100-20250619	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	D		2
Q2375-02	RW8-SP303-20250619	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	D		3
Q2377-01	PW-B6-L66-061925	SVOC-SIMGroup1	980	6	RUPESH	ritesh	1	D		4

RS 6/20

* **Extracts relinguished on the same date as received.**

168567
9:32

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2361 **WorkList ID :** 190289 **Department :** Extraction **Date :** 06-20-2025 09:26:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2345-01	EB02-20250616	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/16/2025	8270-Modified
Q2345-13	TT189D2-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025	8270-Modified
Q2345-14	TT150S1-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025	8270-Modified
Q2345-15	RW8-MW01D1-20250617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025	8270-Modified
Q2345-16	TT192D2-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025	8270-Modified
Q2361-01	TT205S1-20250617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/17/2025	8270-Modified
Q2372-01	GAV1W	Water	SVOC-SIMGroup1	Cool 4 deg C	GENV01	D51	06/19/2025	8270-Modified

Date/Time 6/20/25 9:27
Raw Sample Received by: RS (Ext (gb)
Raw Sample Relinquished by:

Date/Time 6/20/25 10:10
Raw Sample Received by:
Raw Sample Relinquished by: RS (Ext (gb)

168567

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2373 **WorkList ID :** 190300 **Department :** Extraction **Date :** 06-20-2025 12:02:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2373-01	RW5-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2373-02	RW5-SP201-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2373-03	RW5-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-01	RW7-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-02	RW7-SP201-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-03	RW7-SP302-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-04	RW7-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2375-01	RW8-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2375-02	RW8-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2377-01	PW-B6-L66-061925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D51	06/19/2025	8270-Modified

Date/Time 6/20/25 12:03
Raw Sample Received by: RS (Ext-lab)
Raw Sample Relinquished by: [signature]

Date/Time 6/20/25 12:35
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RS (Ext-lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q2375

Test : SVOC-SIMGroup1

Prepbatch ID : PB168563,

Sequence ID/Qc Batch ID: BN062125,BN062625,

Standard ID :
EP2609,EP2610,EP2622,SP6740,SP6756,SP6757,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3874,E3902,E3904,E3926,E3940,E3942,E3943,M6157,S10104,S10105,S 11496,S11650,S11788,S11828,S11832,S12115,S12195,S12216,S12271,S12273,S12486,S12533,S12577,S12651,S12670,S12792,S12974,S13058,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	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025

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	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025

FROM 1000.00000ml of M6157 + 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	EP2622	06/13/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 06/16/2025

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	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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3492	8270-SIM-Spike 0.4 PPM	SP6756	03/24/2025	07/29/2025	Rahul Chavli	None	None	mohammad ahmed 04/07/2025

FROM 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 + 0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = 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	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = 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
3339	8270 sim calibration stock 10ppm (CPI)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6775	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = 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
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6776	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6777	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = 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
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6779	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = 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
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = 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
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = 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	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay 06/18/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = 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
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

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	12/04/2025	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)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

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)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

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)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

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)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

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 #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

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	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

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	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

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	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

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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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

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	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

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 #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

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	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

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	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

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)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-1308 PRODUCT CODE: SHIP DATE: 2/7/25

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 3926

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.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 6/11/25

E3940

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
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 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
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 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3943

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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor | J.T.Baker

M615 MB

Material No.: 9673-33
Batch No.: 24I1262013
Manufactured Date: 2024-08-07
Retest Date:2029-08-06
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	<1 ppm
ACS - Substances Reducing Permanganate(as SO2)	<= 2 ppm	<2 ppm
Ammonium (NH_4)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO_3)	<= 0.2 ppm	0.1 ppm
Phosphate (PO_4)	<= 0.5 ppm	<0.1 ppm
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities - Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities - Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities - Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities - Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities - Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities - Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities - Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities - Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities - Sodium (Na)	<= 500.0 ppb	<5.0 ppb
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities - Tin (Sn)	<= 5.0 ppb	1.1 ppb
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	<1.0 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

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

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.

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.)

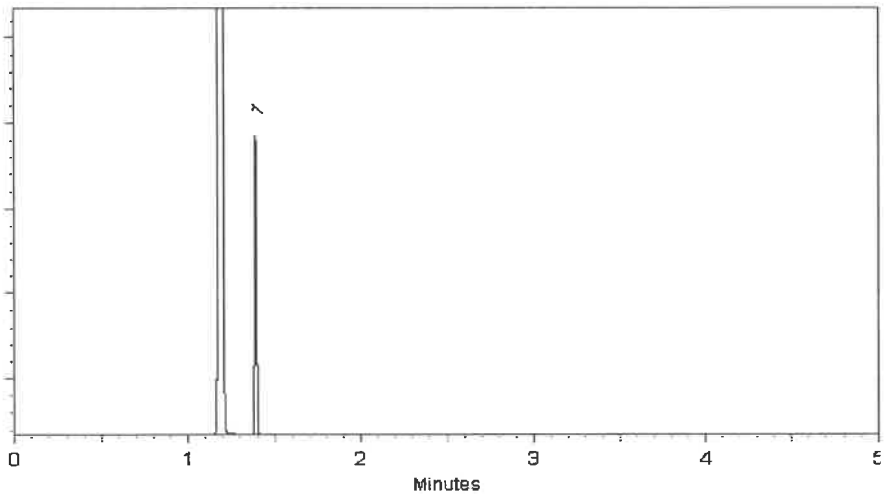
Inj. Temp:
250°C

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.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

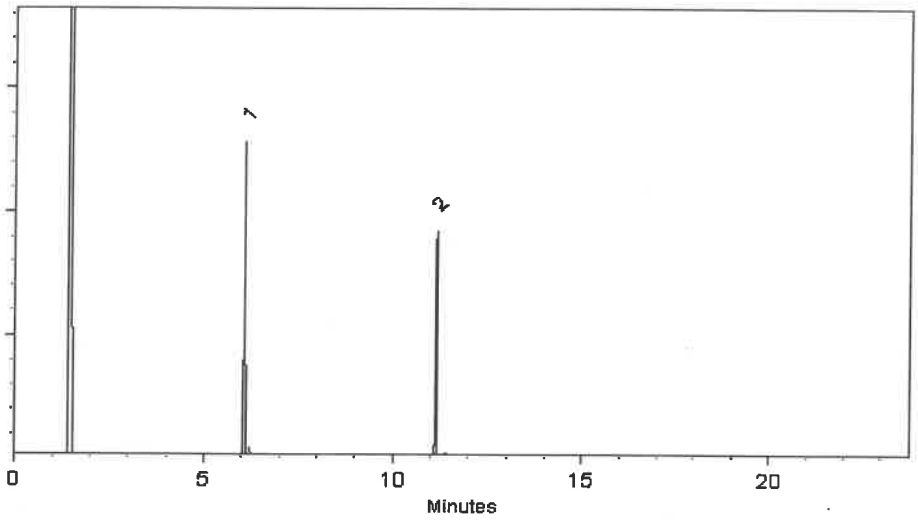
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

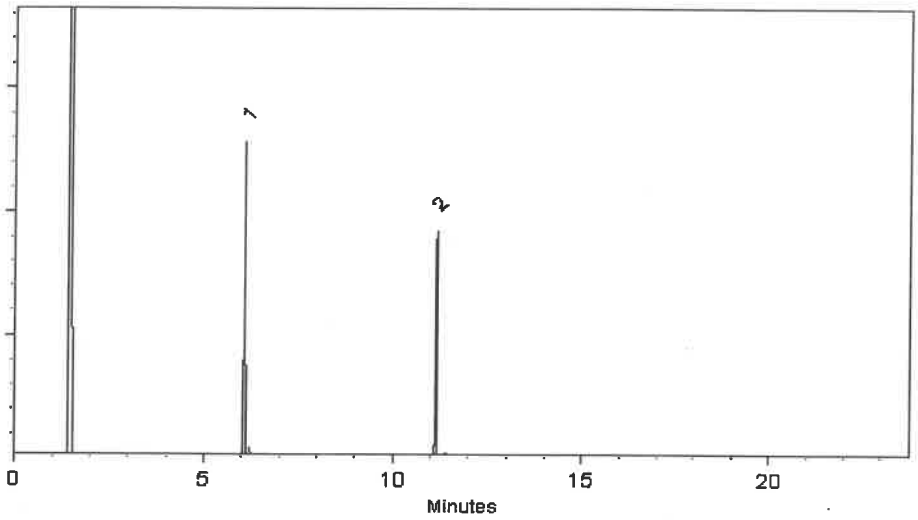
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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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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

S12187 ↓ S12206 } RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

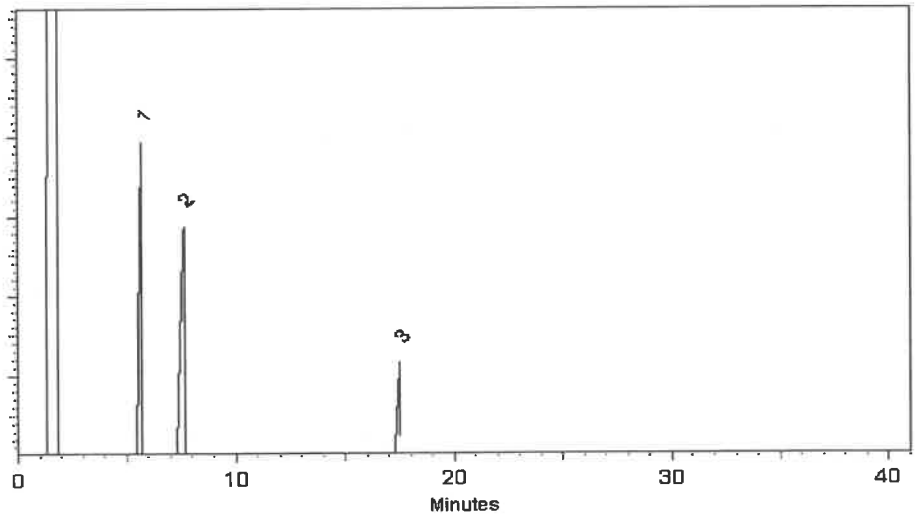
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

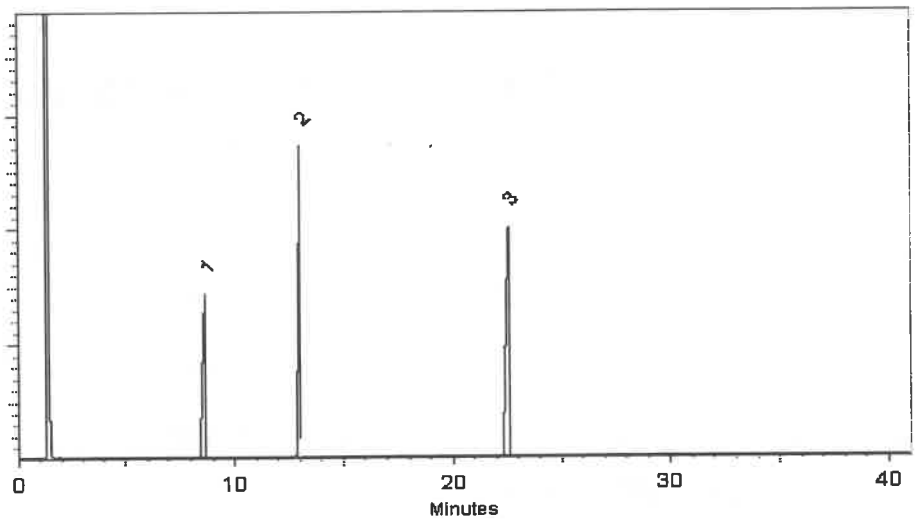
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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

Kerry E Kane

Certified By: _____

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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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

Kerry E Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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. : 31615 **Lot No.:** A0212955

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 : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 ↓ S12579 RC 8/2/24

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.)

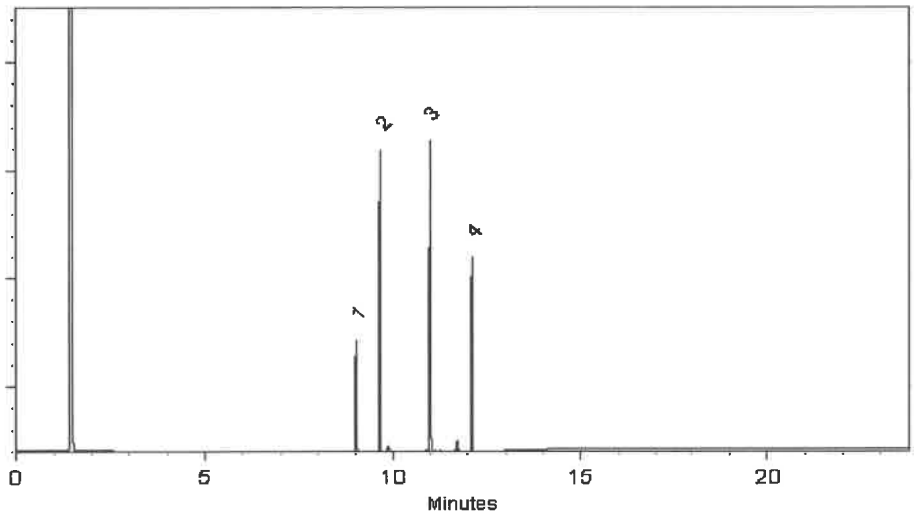
Inj. Temp:
250°C

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.

Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

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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. : 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

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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-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.

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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. : 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.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	≤ -10 °C	Methylene Chloride	1/2/2030	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	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057
↓
513061
AC
1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: 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.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q2375

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Ln, Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: RW8
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie,wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*
HARD COPY: 10 DAYS*
EDD 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

1	2	3	4	5	6	7	8	9
1,4-Dioxane SW846 8270 SIM	Iron, Total	TSS	TDS					

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
									B								<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
1.	RW8-SP100-20250619	GW		x	6/19/25	13:05	4	x	x	x	x						pH 1.3 #80A0441
2.	RW8-SP303-20250619	GW		x	6/19/25	13:13	4	x	x	x	x						pH 1.3 #80A0441
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME		
1. RELINQUISHED BY SAMPLER	6/19/25 1570	1. RECEIVED BY	1553 6-19-25
2. RELINQUISHED BY	DATE/TIME	2. RECEIVED BY	
3. RELINQUISHED BY	DATE/TIME 183 6-19-25	3. RECEIVED FOR LAB BY	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.2°C
☐ Ice in Cooler?:
MeOH extraction requires an additional 4oz. Jar for percent solid
Comments:

Page of

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

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

QA Control Code: A2070148

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037355.D
Acq On : 20 Jun 2025 18:03
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 20 23:26:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

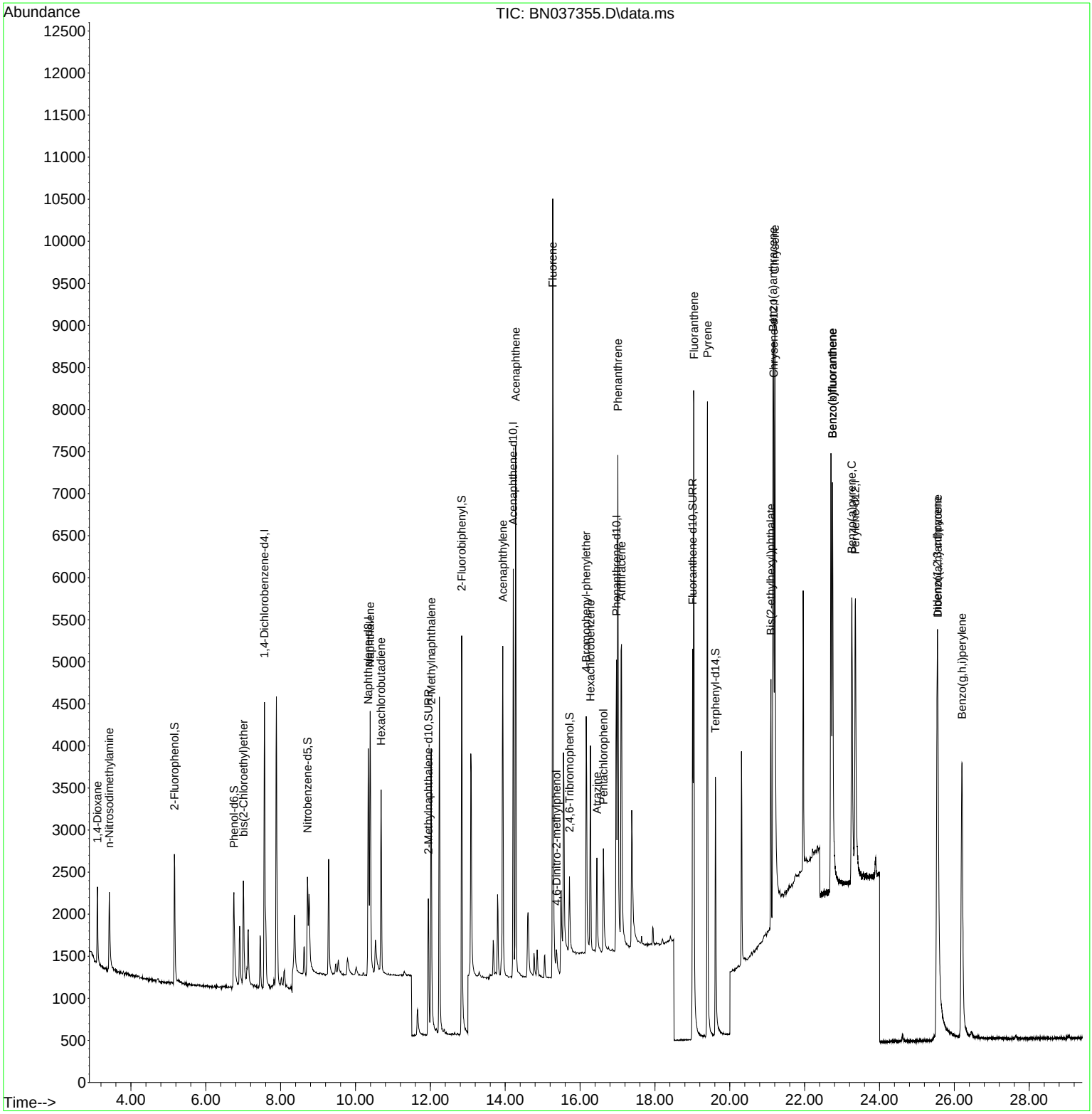
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	1912	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4157	0.400	ng		# 0.00
13) Acenaphthene-d10	14.213	164	2811	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5776	0.400	ng		# 0.00
29) Chrysene-d12	21.171	240	4813	0.400	ng		# 0.00
35) Perylene-d12	23.354	264	4943	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1436	0.411	ng		0.00
5) Phenol-d6	6.752	99	1465	0.424	ng		0.00
8) Nitrobenzene-d5	8.717	82	1327	0.385	ng		0.00
11) 2-Methylnaphthalene-d10	11.945	152	2768	0.411	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	646	0.321	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	4996	0.405	ng		0.00
27) Fluoranthene-d10	19.008	212	6705	0.373	ng		0.00
31) Terphenyl-d14	19.616	244	4452	0.405	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	745	0.441	ng		94
3) n-Nitrosodimethylamine	3.422	42	754	0.383	ng		81
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.446	ng		94
9) Naphthalene	10.394	128	4347	0.403	ng	#	89
10) Hexachlorobutadiene	10.682	225	1832	0.348	ng	#	99
12) 2-Methylnaphthalene	12.021	142	2957	0.390	ng		92
16) Acenaphthylene	13.935	152	4490	0.381	ng		99
17) Acenaphthene	14.277	154	2983	0.381	ng		98
18) Fluorene	15.272	166	4232	0.382	ng		100
20) 4,6-Dinitro-2-methylph...	15.368	198	459	0.263	ng		89
21) 4-Bromophenyl-phenylether	16.165	248	1611	0.342	ng	#	85
22) Hexachlorobenzene	16.276	284	1814	0.369	ng		98
23) Atrazine	16.450	200	1262	0.342	ng	#	85
24) Pentachlorophenol	16.624	266	792	0.293	ng		98
25) Phenanthrene	17.009	178	6374	0.391	ng		99
26) Anthracene	17.108	178	5717	0.375	ng		98
28) Fluoranthene	19.040	202	7896	0.354	ng	#	98
30) Pyrene	19.402	202	7990	0.434	ng		100
32) Benzo(a)anthracene	21.153	228	5851	0.377	ng		98
33) Chrysene	21.207	228	7754	0.394	ng		98
34) Bis(2-ethylhexyl)phtha...	21.099	149	2603	0.409	ng		98
36) Indeno(1,2,3-cd)pyrene	25.541	276	8379	0.400	ng	#	93
37) Benzo(b)fluoranthene	22.746	252	7755	0.442	ng		95
38) Benzo(k)fluoranthene	22.746	252	7755	0.407	ng		95
39) Benzo(a)pyrene	23.257	252	6298	0.393	ng	#	92
40) Dibenzo(a,h)anthracene	25.555	278	6108	0.366	ng	#	88
41) Benzo(g,h,i)perylene	26.204	276	7852	0.408	ng		95

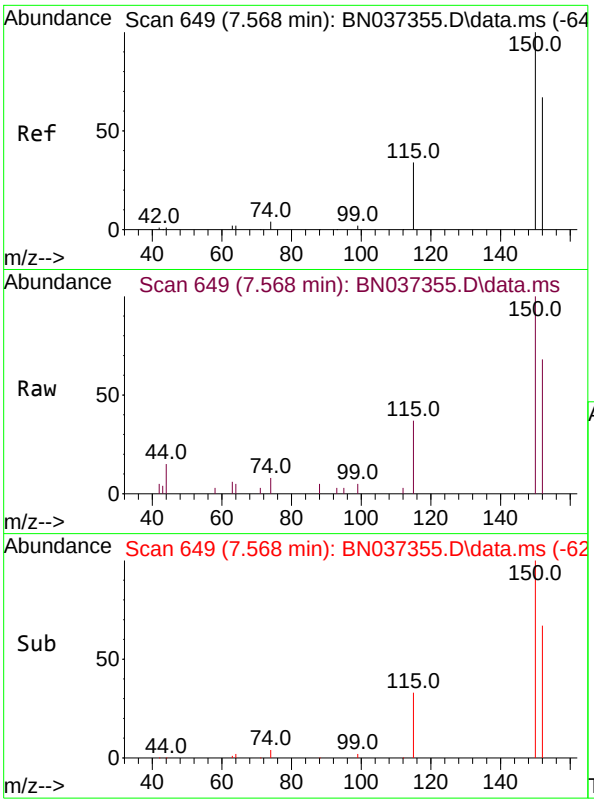
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037355.D
Acq On : 20 Jun 2025 18:03
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 20 23:26:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



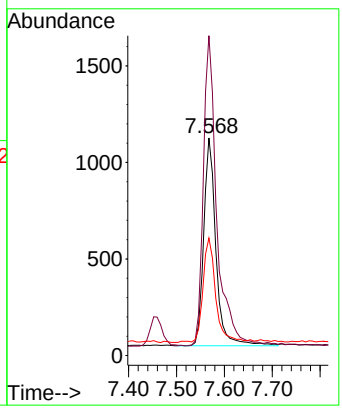


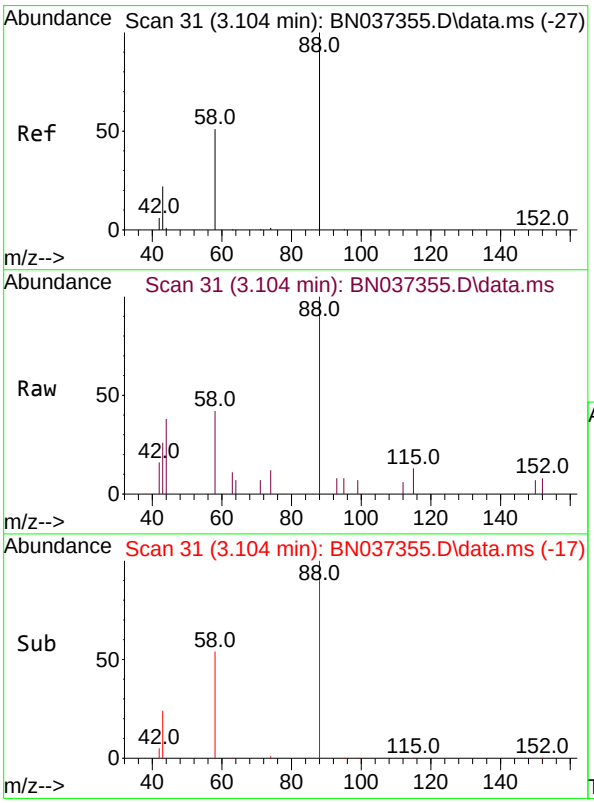
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 1912

Ion	Ratio	Lower	Upper
152	100		
150	147.0	112.7	169.1
115	53.9	45.9	68.9

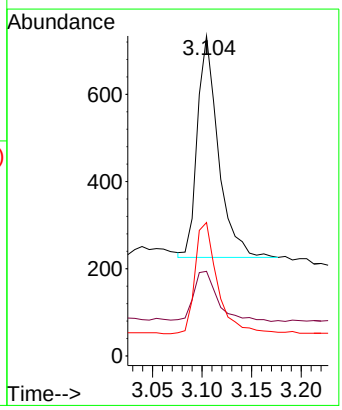


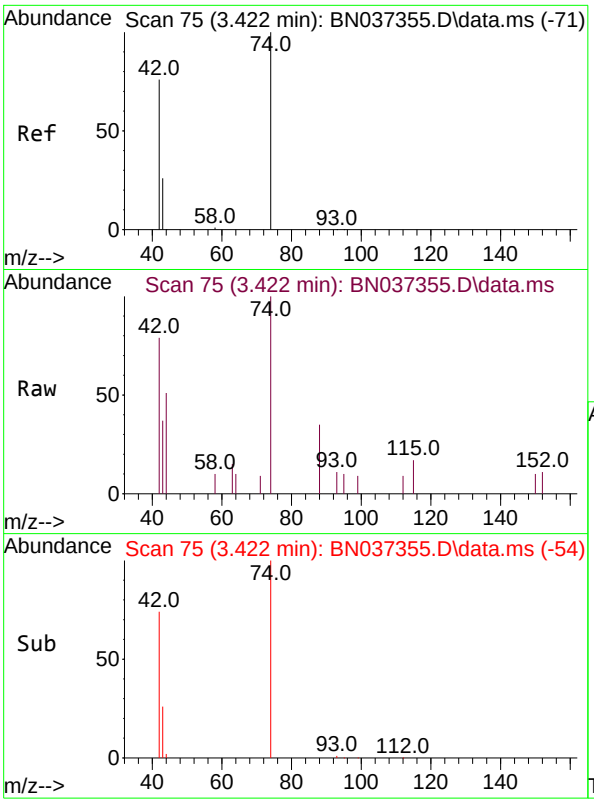


#2
1,4-Dioxane
Concen: 0.441 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 88 Resp: 745

Ion	Ratio	Lower	Upper
88	100		
43	26.3	21.0	31.6
58	54.1	38.0	57.0



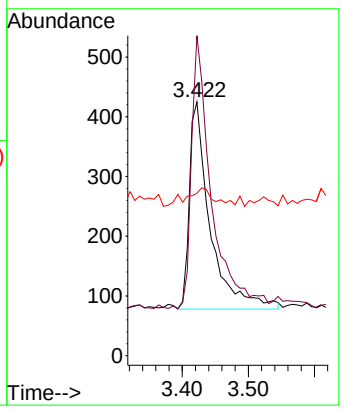


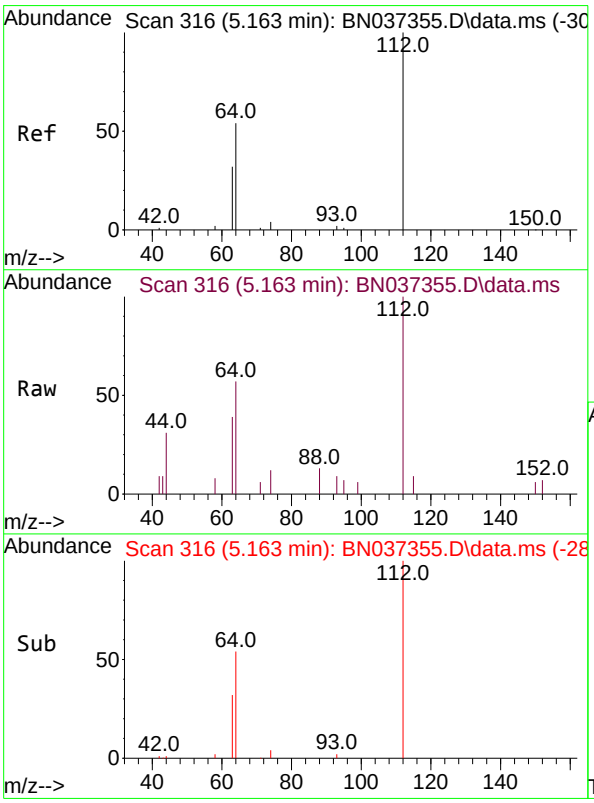
#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 754

Ion	Ratio	Lower	Upper
42	100		
74	126.4	84.3	126.5
44	5.7	5.0	7.4

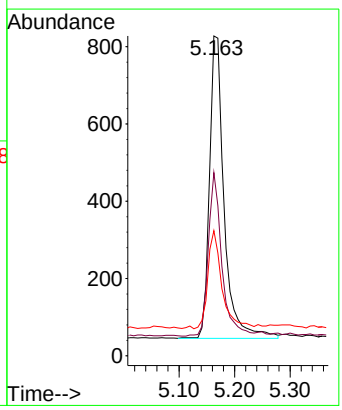


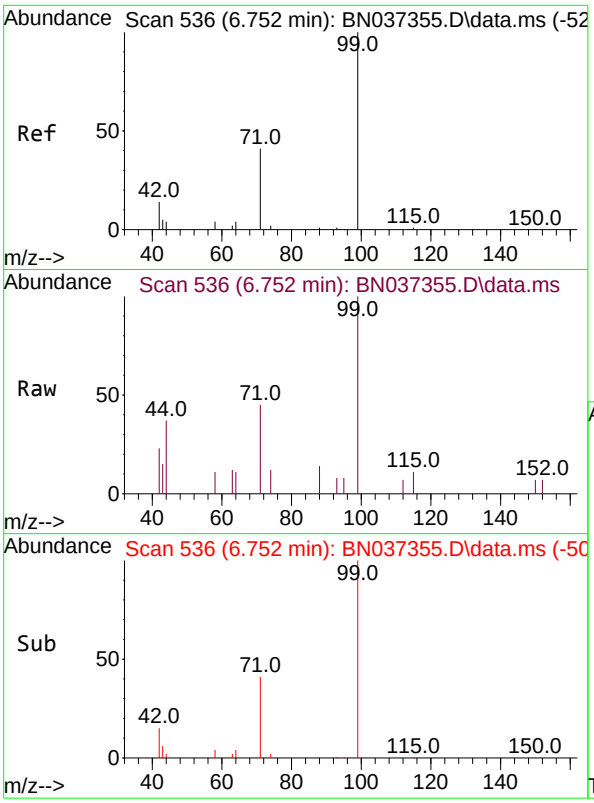


#4
2-Fluorophenol
Concen: 0.411 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:112 Resp: 1436

Ion	Ratio	Lower	Upper
112	100		
64	49.6	38.7	58.1
63	31.1	26.4	39.6



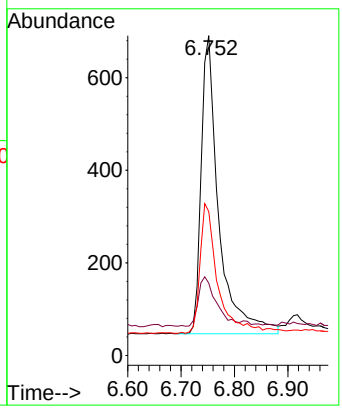


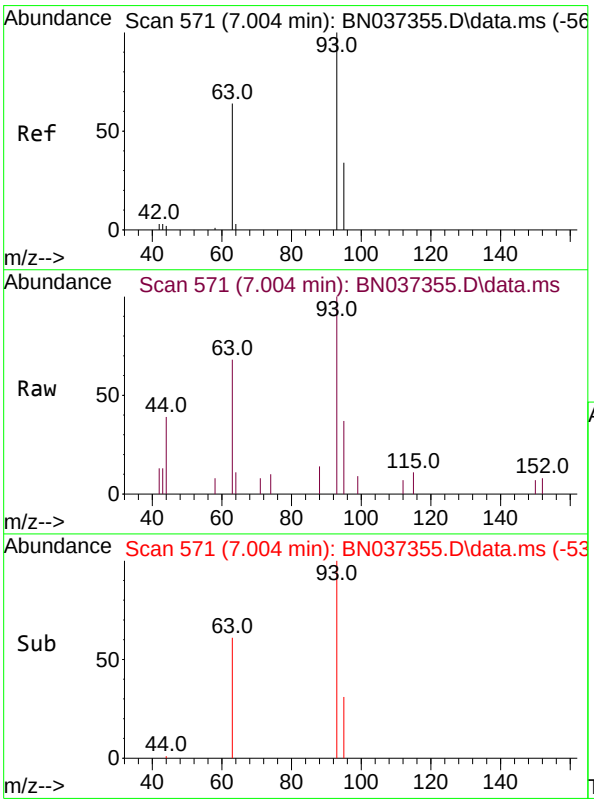
#5
Phenol-d6
Concen: 0.424 ng
RT: 6.752 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 1465

Ion	Ratio	Lower	Upper
99	100		
42	17.0	19.8	29.8#
71	43.2	42.6	64.0

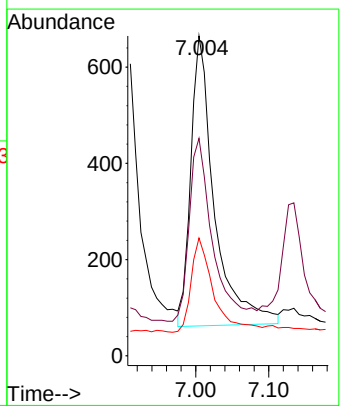


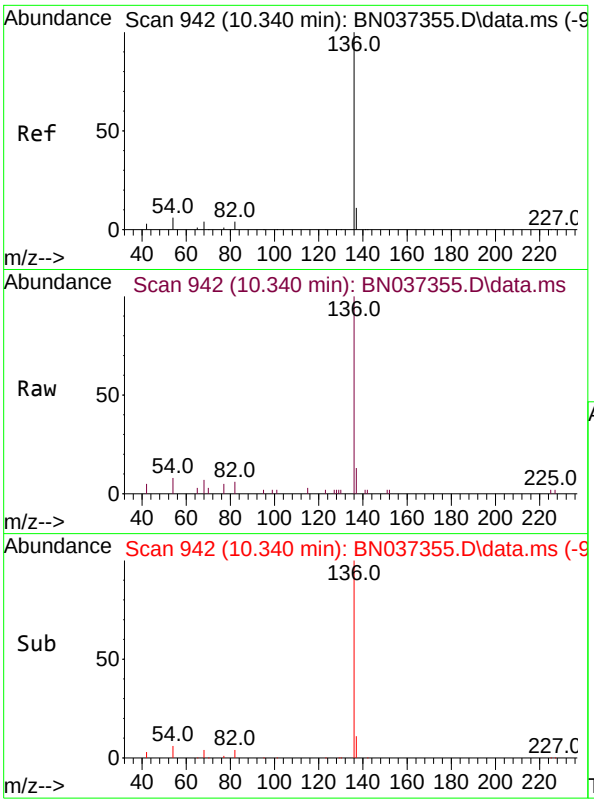


#6
bis(2-Chloroethyl)ether
Concen: 0.446 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 93 Resp: 1351

Ion	Ratio	Lower	Upper
93	100		
63	60.9	53.2	79.8
95	31.1	27.3	40.9



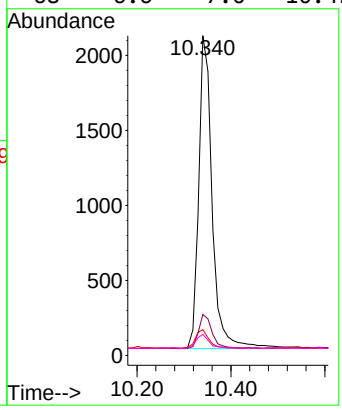


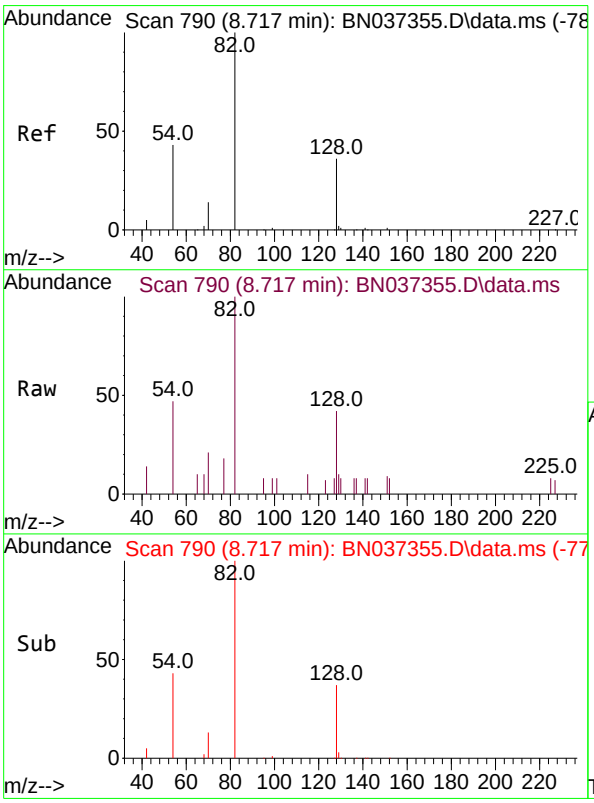
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 4157

Ion	Ratio	Lower	Upper
136	100		
137	12.9	12.2	18.2
54	8.1	8.8	13.2#
68	6.6	7.0	10.4#

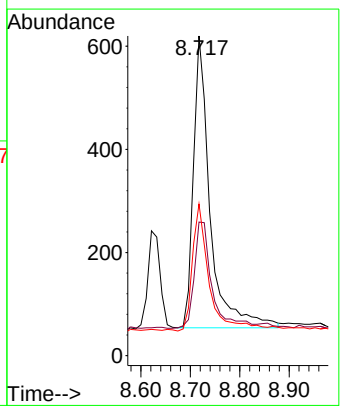


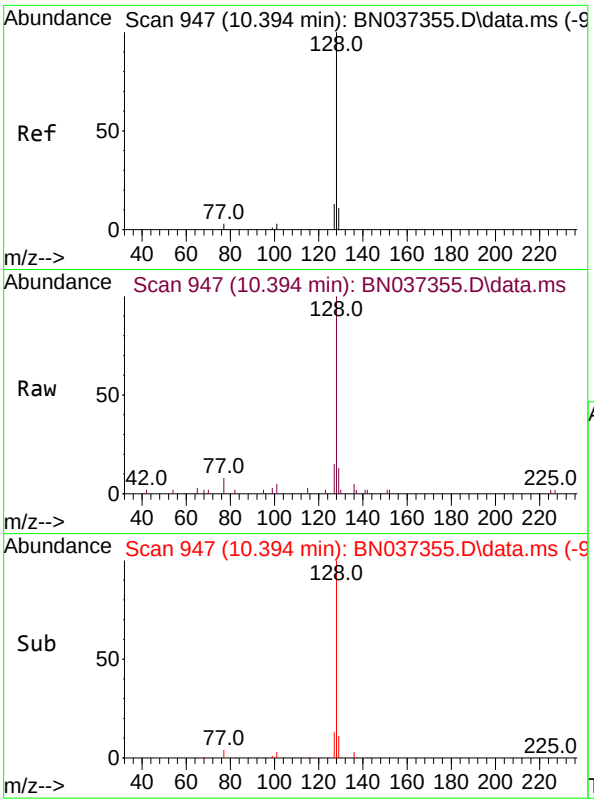


#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 82 Resp: 1327

Ion	Ratio	Lower	Upper
82	100		
128	41.8	42.5	63.7#
54	47.4	43.2	64.8



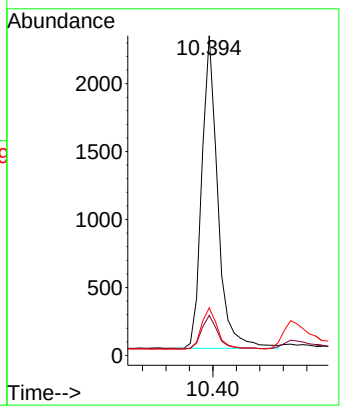


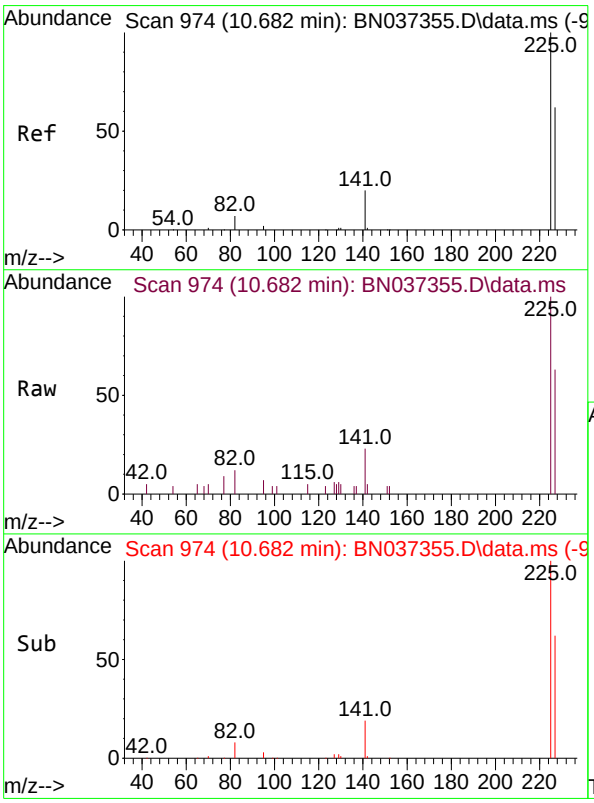
#9
Naphthalene
Concen: 0.403 ng
RT: 10.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 4347

Ion	Ratio	Lower	Upper
128	100		
129	12.5	14.0	21.0#
127	14.9	15.8	23.8#

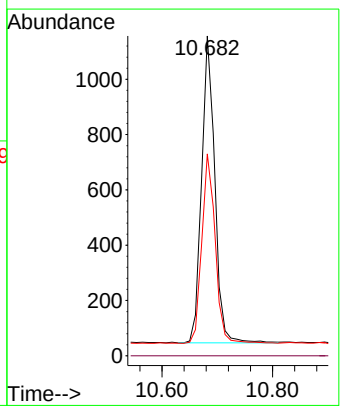


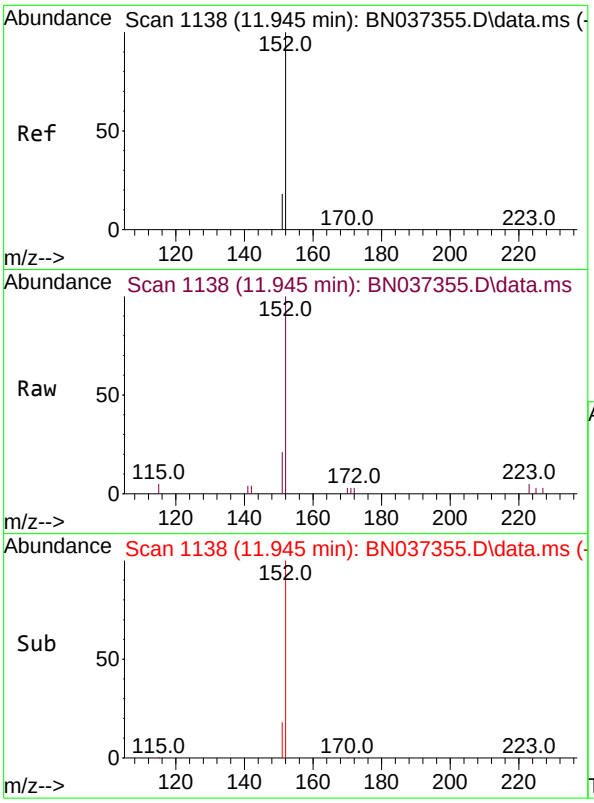


#10
Hexachlorobutadiene
Concen: 0.348 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:225 Resp: 1832

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.4	50.3	75.5



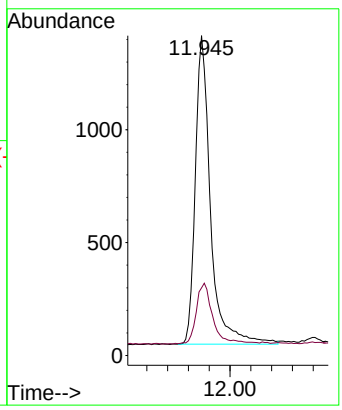


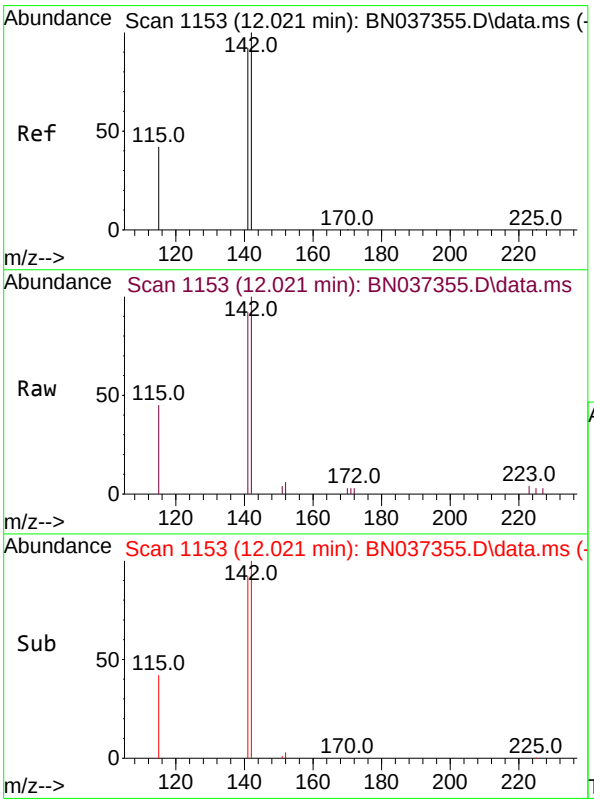
#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 11.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2768

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.4	26.0

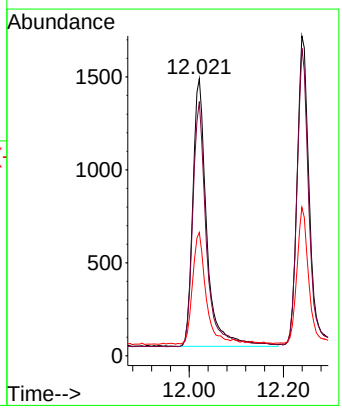


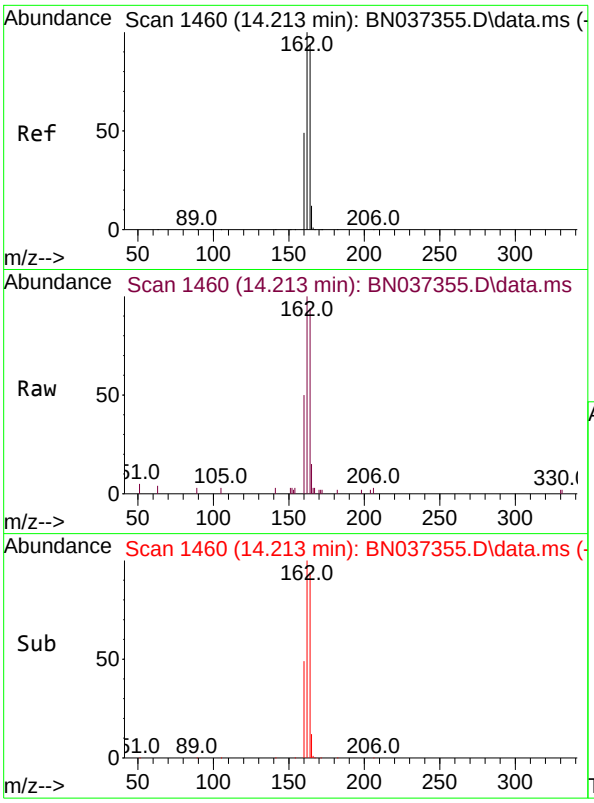


#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:142 Resp: 2957

Ion	Ratio	Lower	Upper
142	100		
141	91.8	70.2	105.2
115	44.5	43.0	64.4



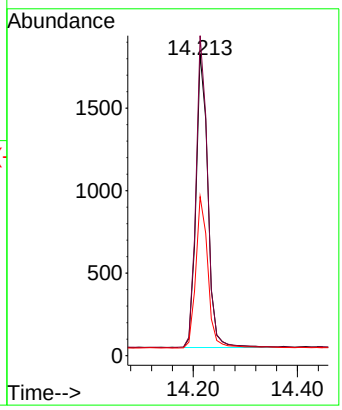


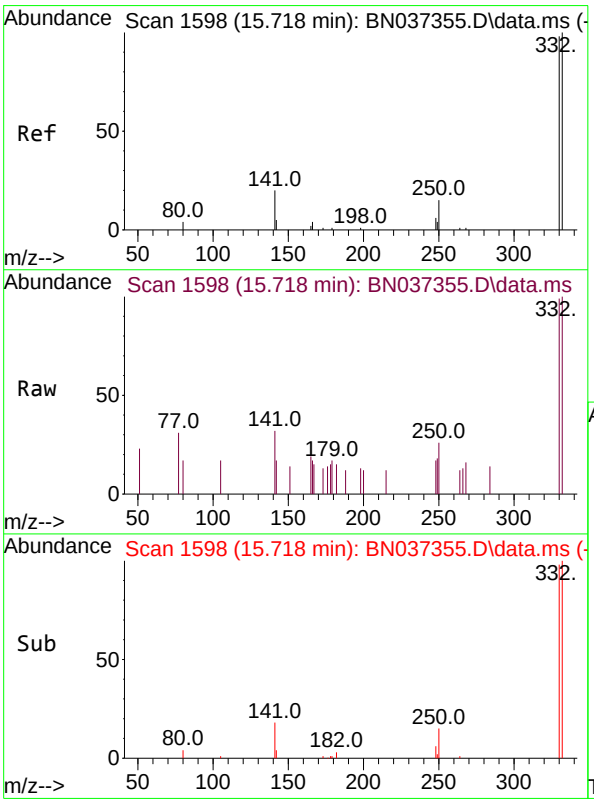
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 2811

Ion	Ratio	Lower	Upper
164	100		
162	106.2	81.5	122.3
160	52.8	43.0	64.4

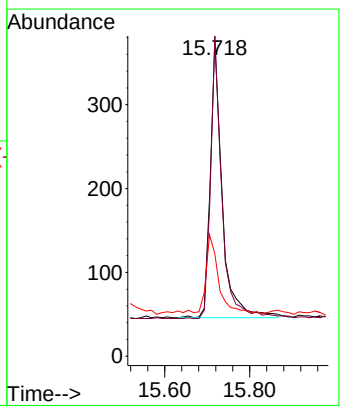


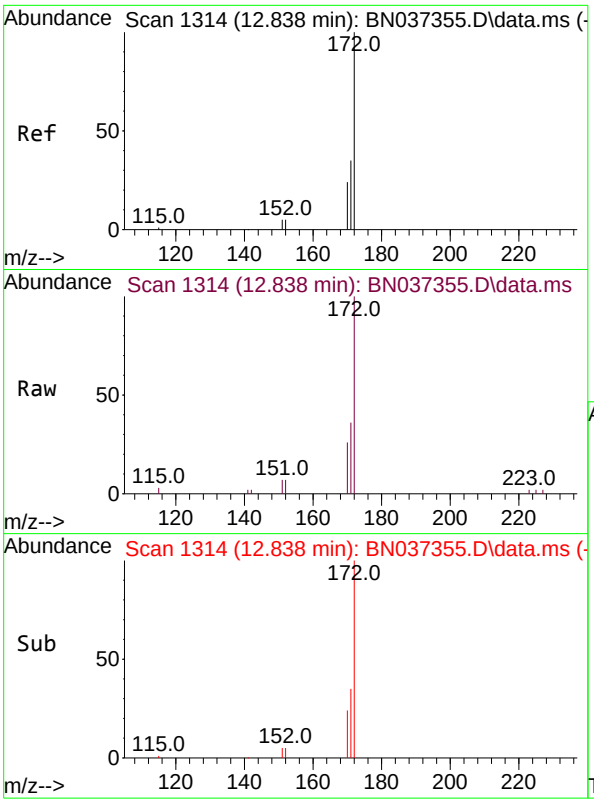


#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:330 Resp: 646

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.4	117.6
141	29.6	24.4	36.6



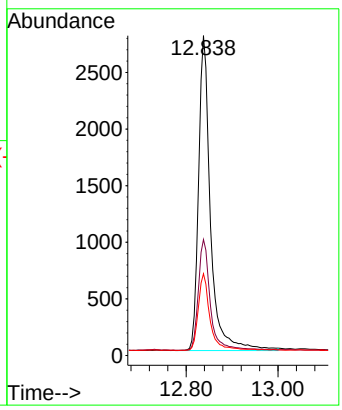


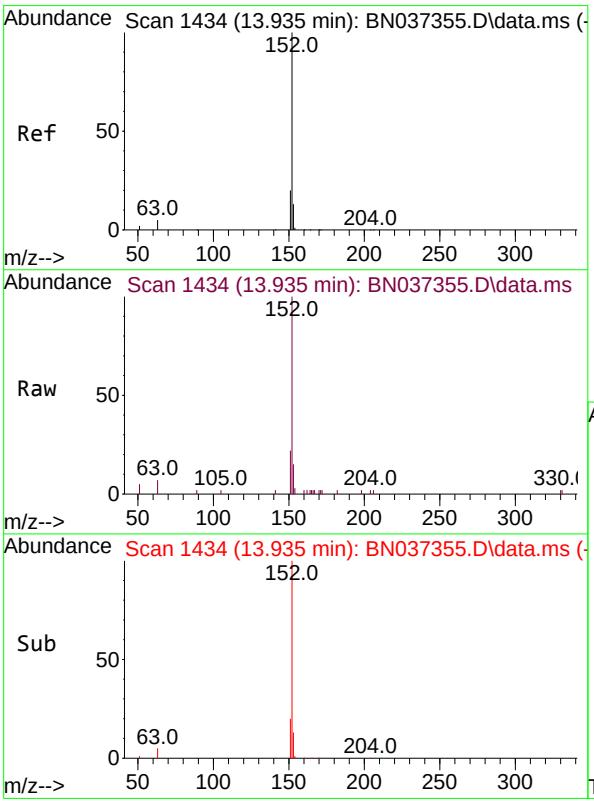
#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.838 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 4996

Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.8	46.2
170	25.6	21.9	32.9

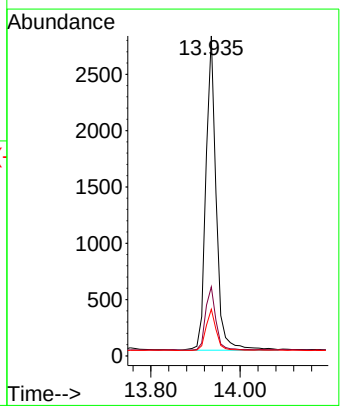


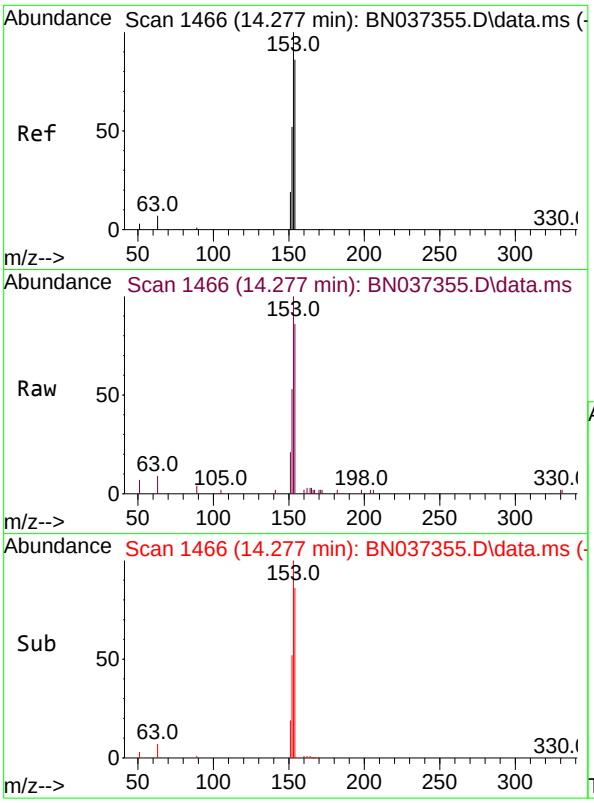


#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:152 Resp: 4490

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	24.8
153	13.1	10.2	15.2



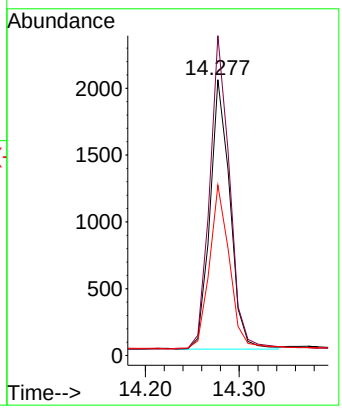


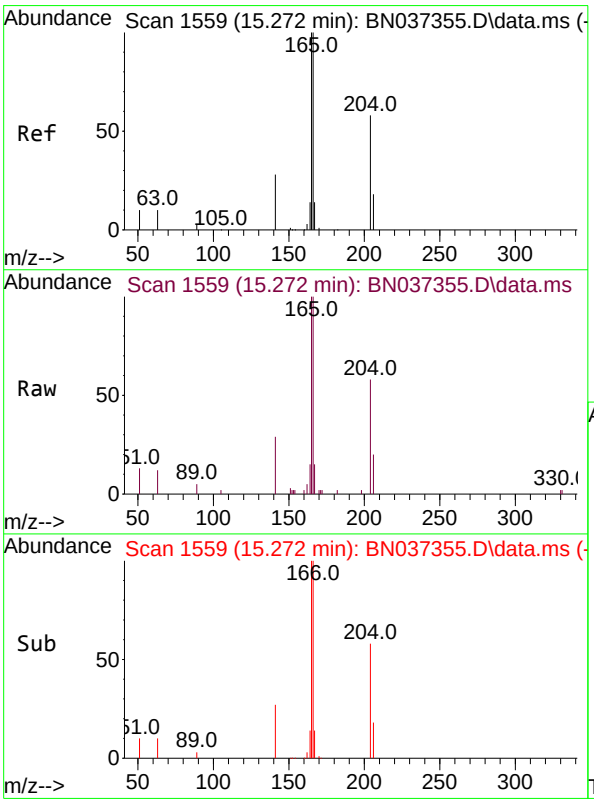
#17
Acenaphthene
Concen: 0.381 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 2983

Ion	Ratio	Lower	Upper
154	100		
153	117.6	93.1	139.7
152	63.0	48.6	73.0

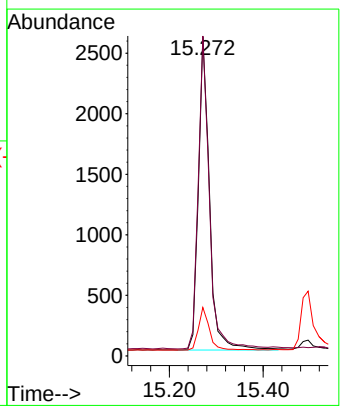


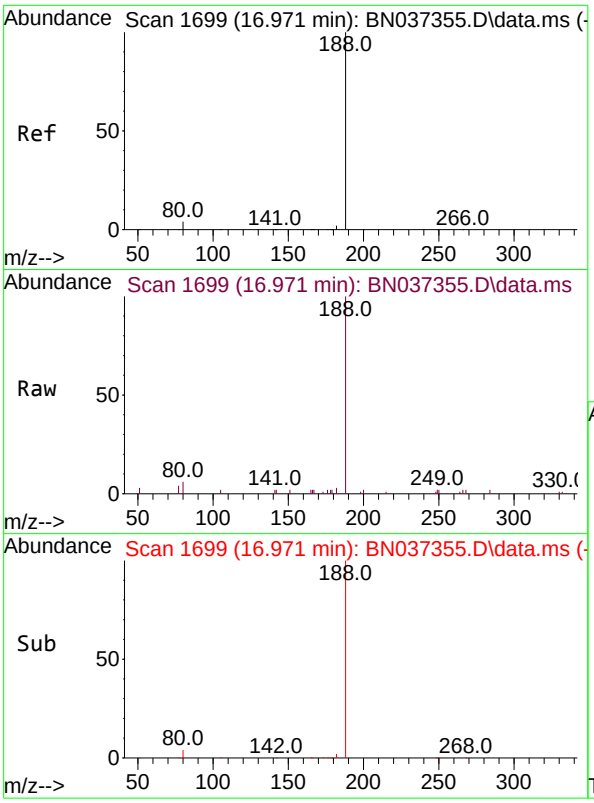


#18
Fluorene
Concen: 0.382 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:166 Resp: 4232

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.5	119.3
167	13.6	10.7	16.1



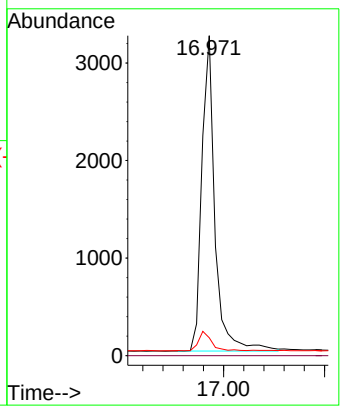


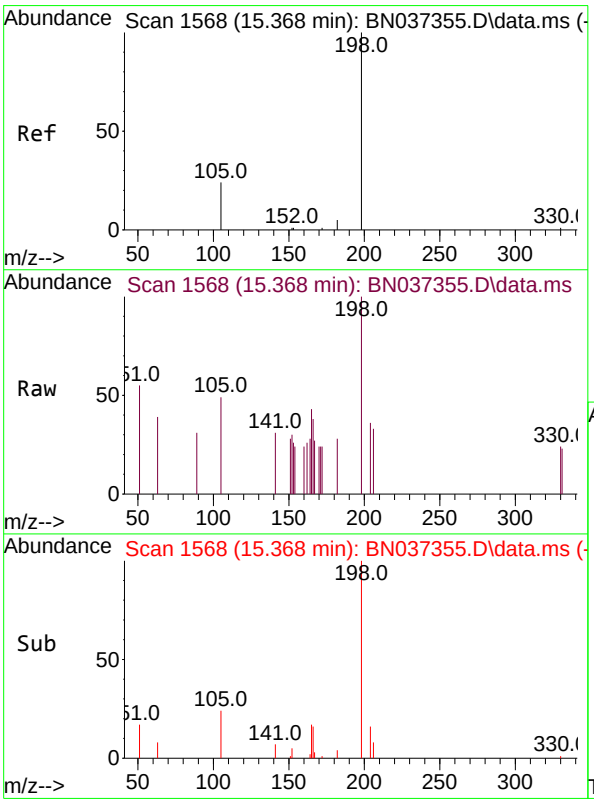
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 5776

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.6	6.2	9.2#

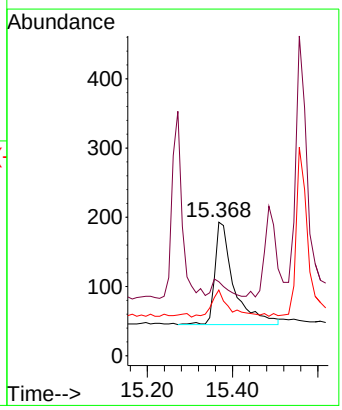


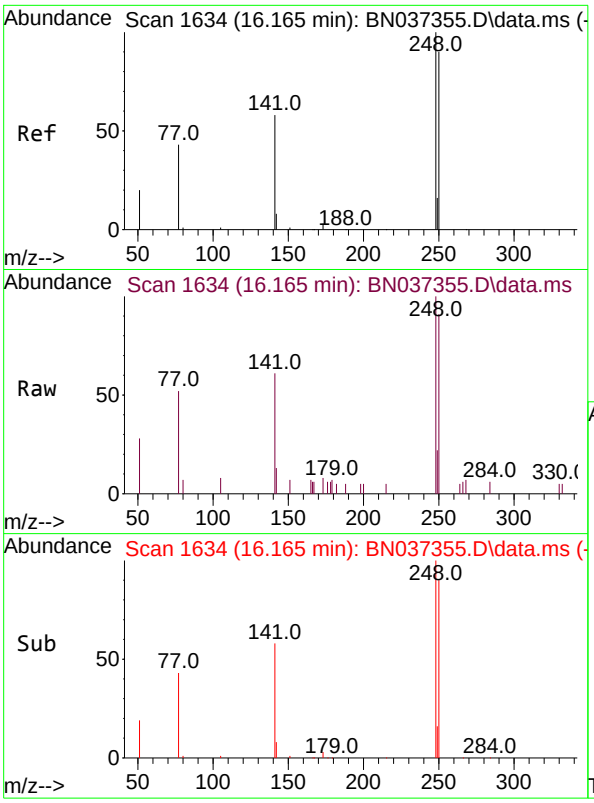


#20
4,6-Dinitro-2-methylphenol
Concen: 0.263 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:198 Resp: 459

Ion	Ratio	Lower	Upper
198	100		
51	55.4	51.4	77.0
105	49.2	45.5	68.3



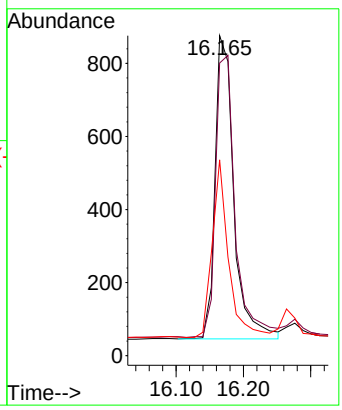


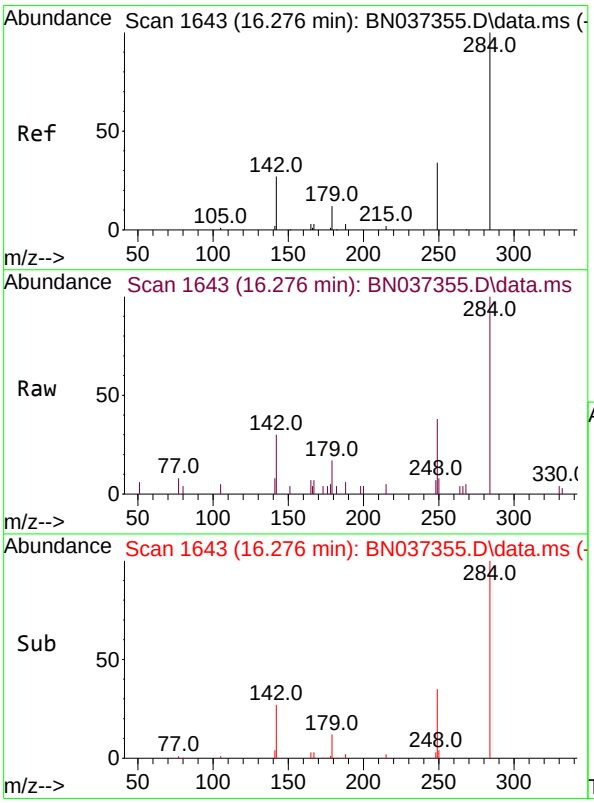
#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1611

Ion	Ratio	Lower	Upper
248	100		
250	91.4	80.4	120.6
141	61.2	33.3	49.9#

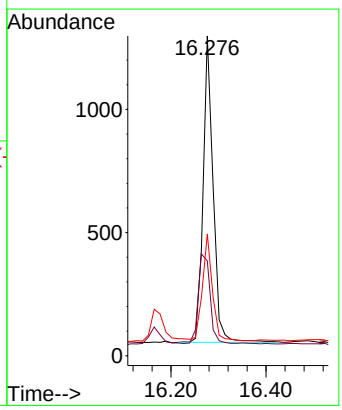


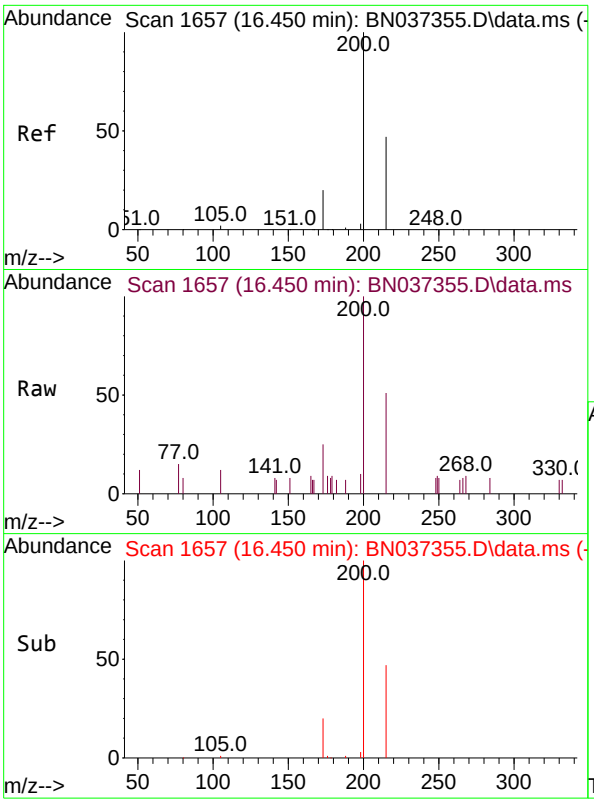


#22
Hexachlorobenzene
Concen: 0.369 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:284 Resp: 1814

Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.0	40.6
249	34.2	28.8	43.2



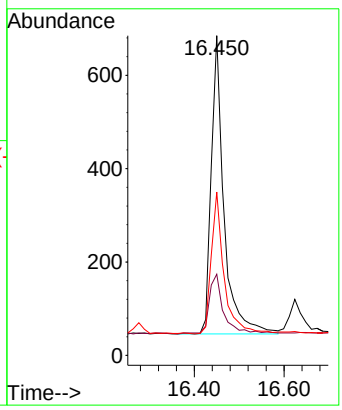


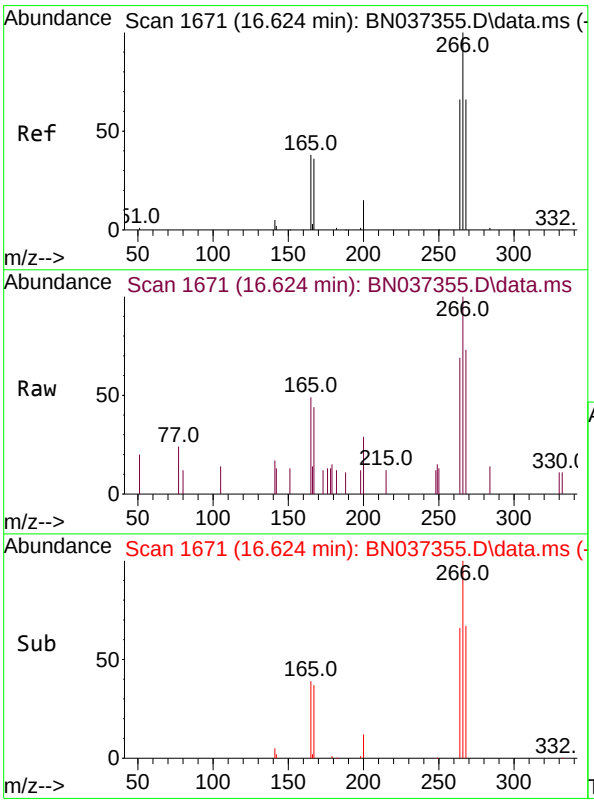
#23
Atrazine
Concen: 0.342 ng
RT: 16.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1262

Ion	Ratio	Lower	Upper
200	100		
173	25.4	29.2	43.8#
215	51.1	48.8	73.2

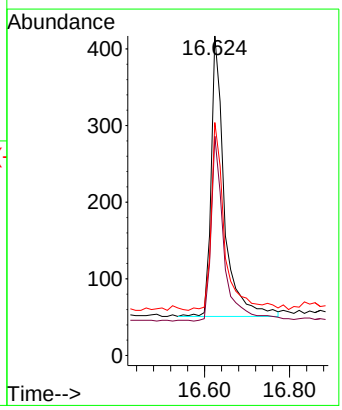


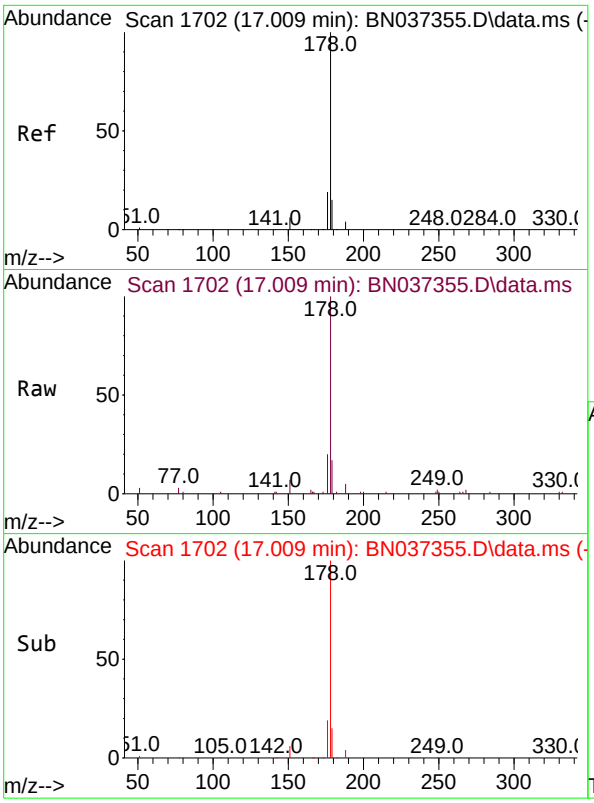


#24
Pentachlorophenol
Concen: 0.293 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:266 Resp: 792

Ion	Ratio	Lower	Upper
266	100		
264	64.3	50.3	75.5
268	67.4	55.3	82.9



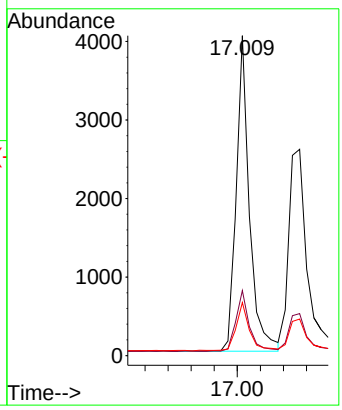


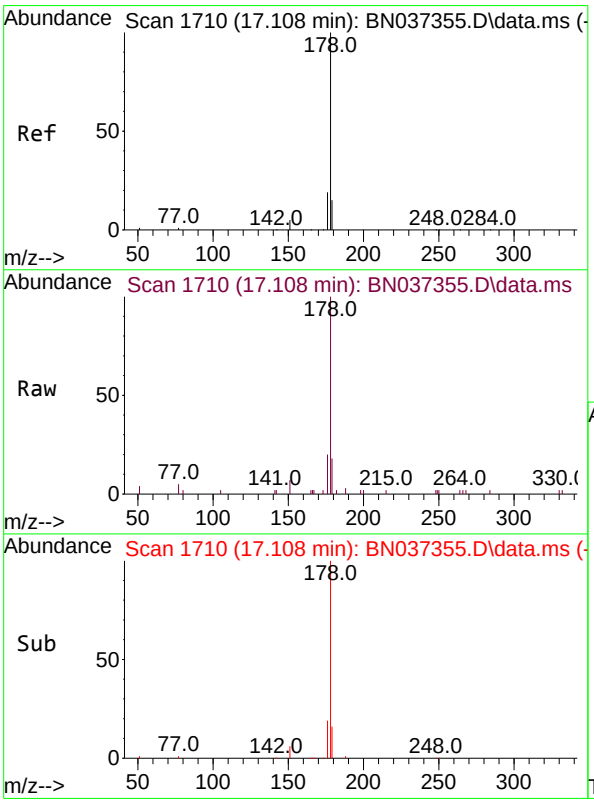
#25
Phenanthrene
Concen: 0.391 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 6374

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.2	22.8
179	15.8	12.9	19.3

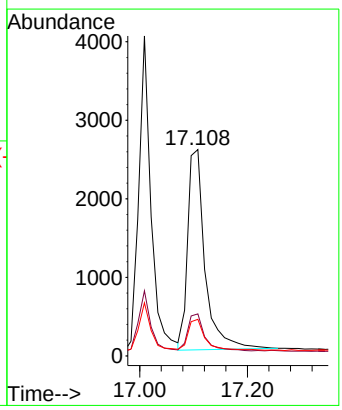


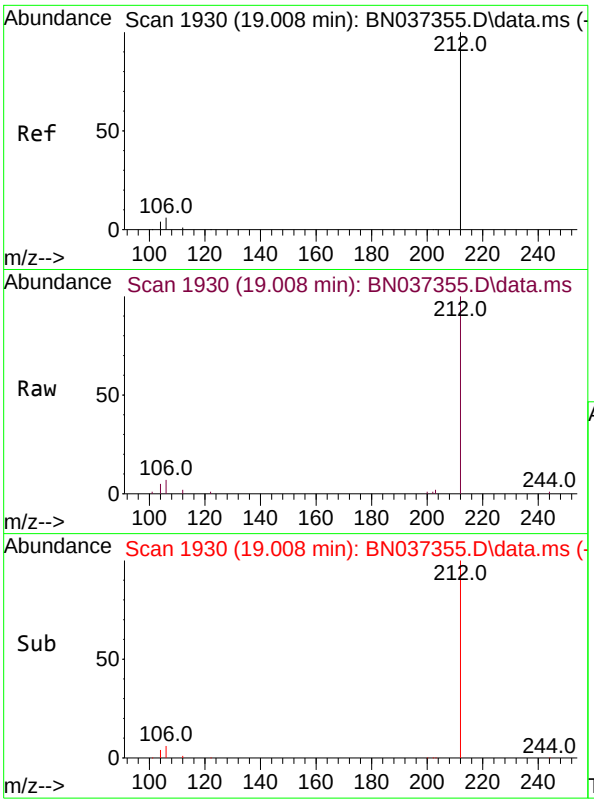


#26
Anthracene
Concen: 0.375 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:178 Resp: 5717

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.7	22.1
179	15.2	13.0	19.6



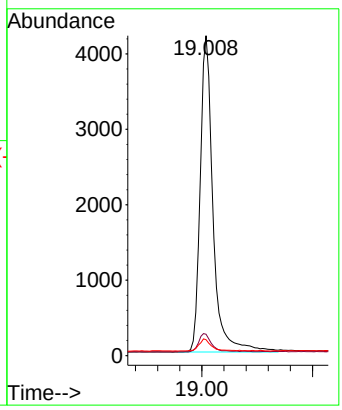


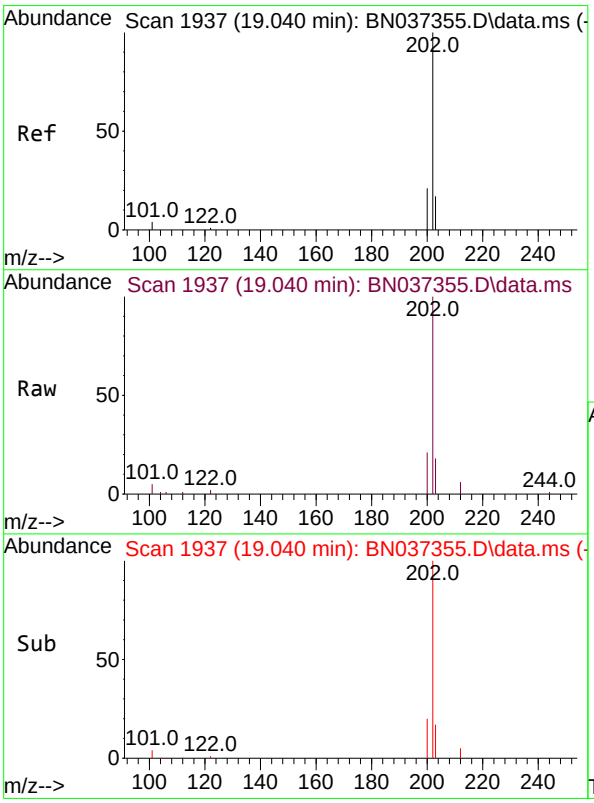
#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.008 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 6705

Ion	Ratio	Lower	Upper
212	100		
106	5.8	3.0	4.4#
104	3.8	2.0	3.0#

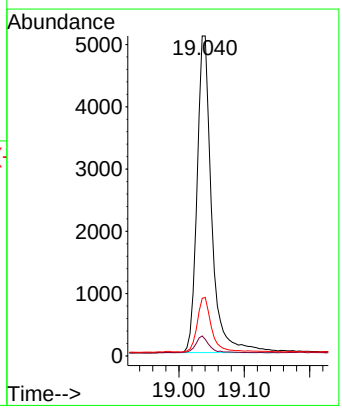


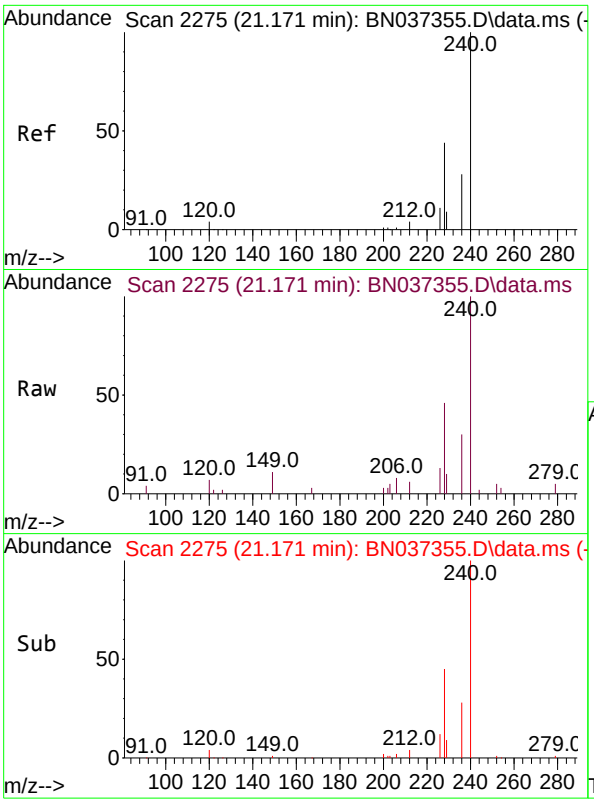


#28
Fluoranthene
Concen: 0.354 ng
RT: 19.040 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:202 Resp: 7896

Ion	Ratio	Lower	Upper
202	100		
101	5.2	3.0	4.6#
203	16.6	13.7	20.5



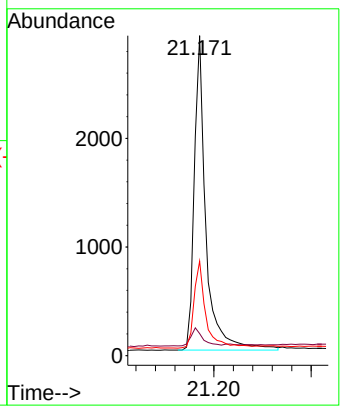


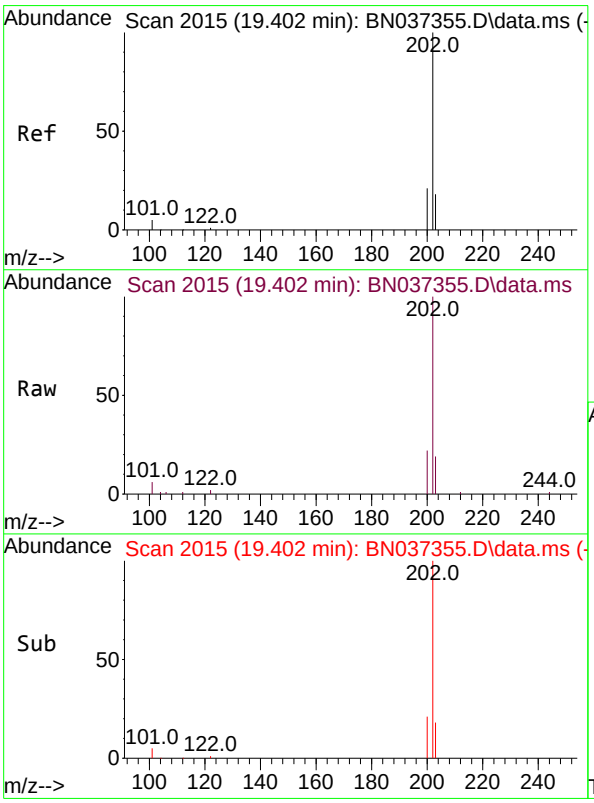
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 4813

Ion	Ratio	Lower	Upper
240	100		
120	6.9	7.5	11.3#
236	29.5	24.9	37.3

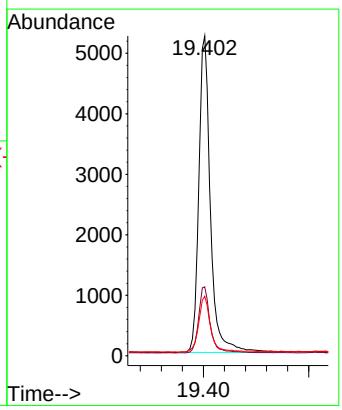


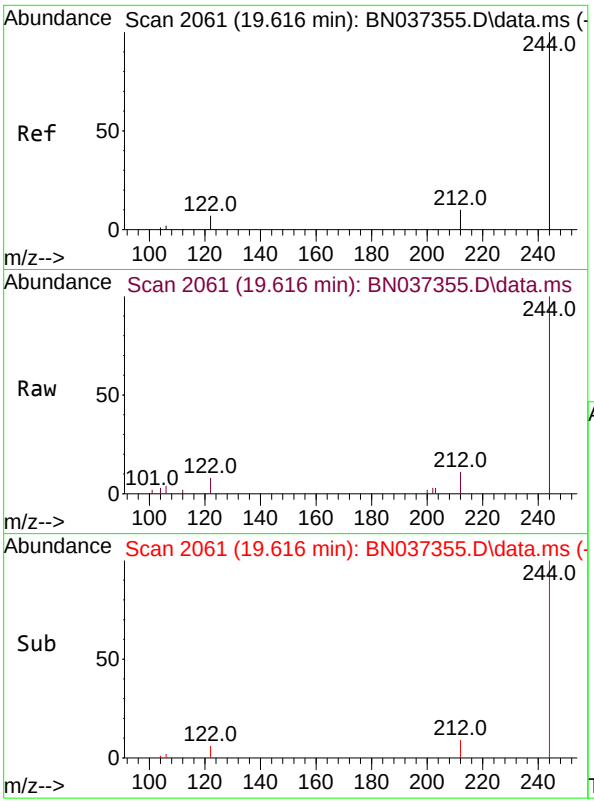


#30
Pyrene
Concen: 0.434 ng
RT: 19.402 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:202 Resp: 7990

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	18.0	14.5	21.7



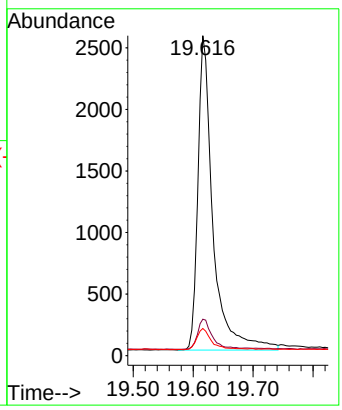


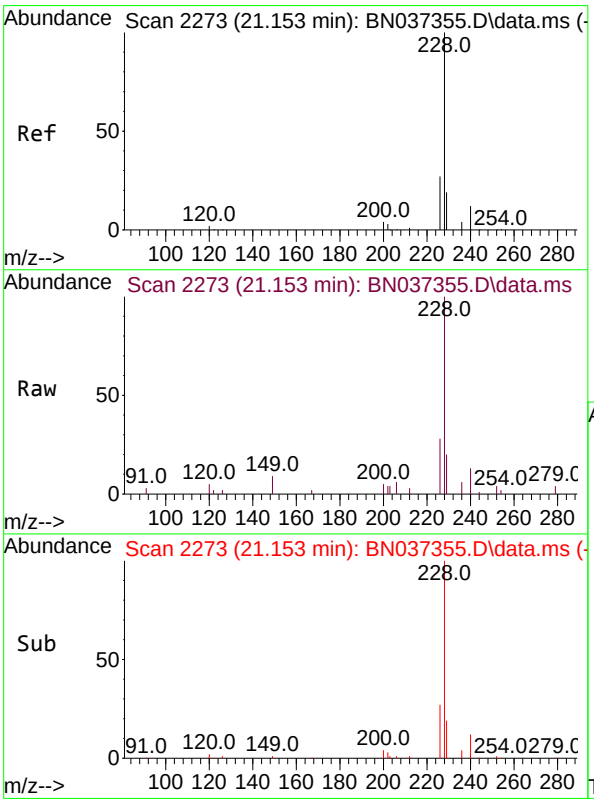
#31
Terphenyl-d14
Concen: 0.405 ng
RT: 19.616 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 4452

Ion	Ratio	Lower	Upper
244	100		
212	11.4	11.1	16.7
122	8.5	7.2	10.8

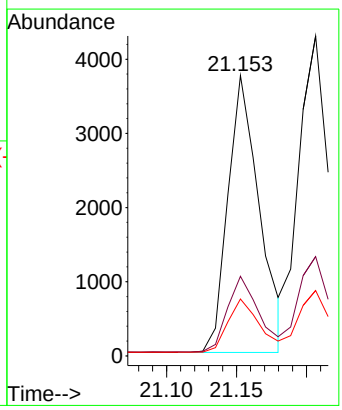


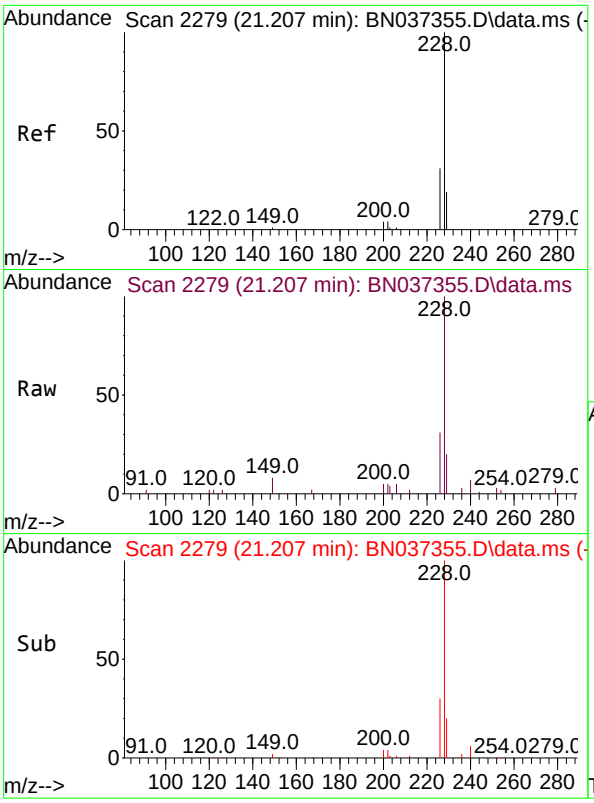


#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:228 Resp: 5851

Ion	Ratio	Lower	Upper
228	100		
226	28.4	23.0	34.4
229	20.3	17.4	26.0



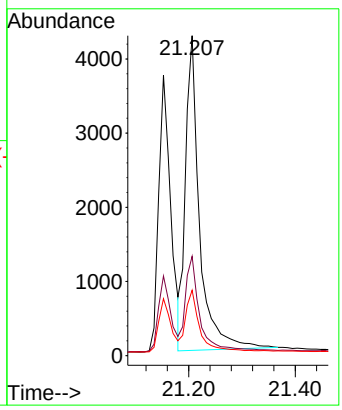


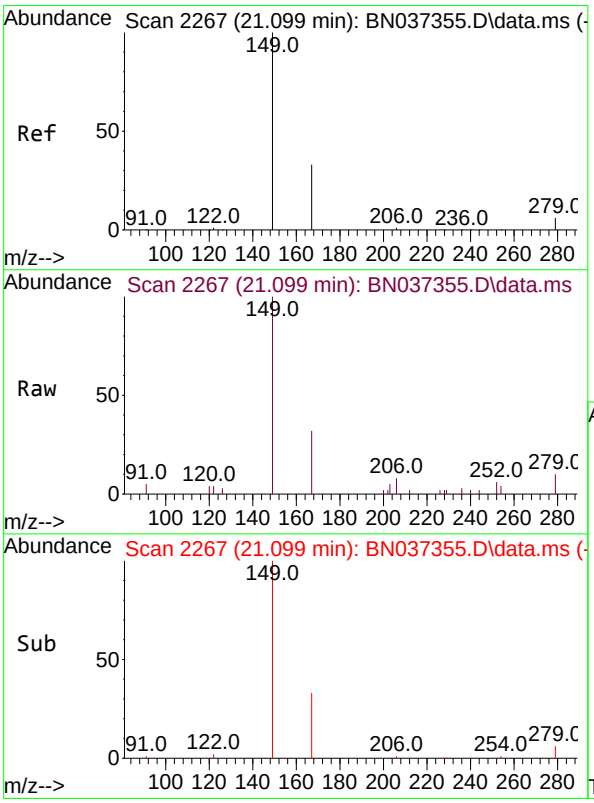
#33
Chrysene
Concen: 0.394 ng
RT: 21.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 7754

Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.4	38.2
229	20.4	17.3	25.9

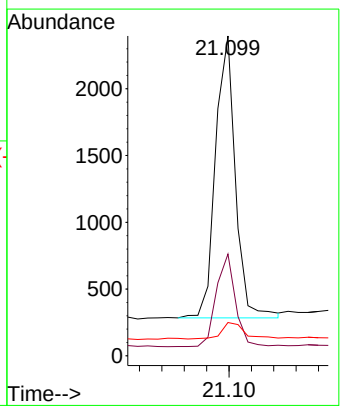


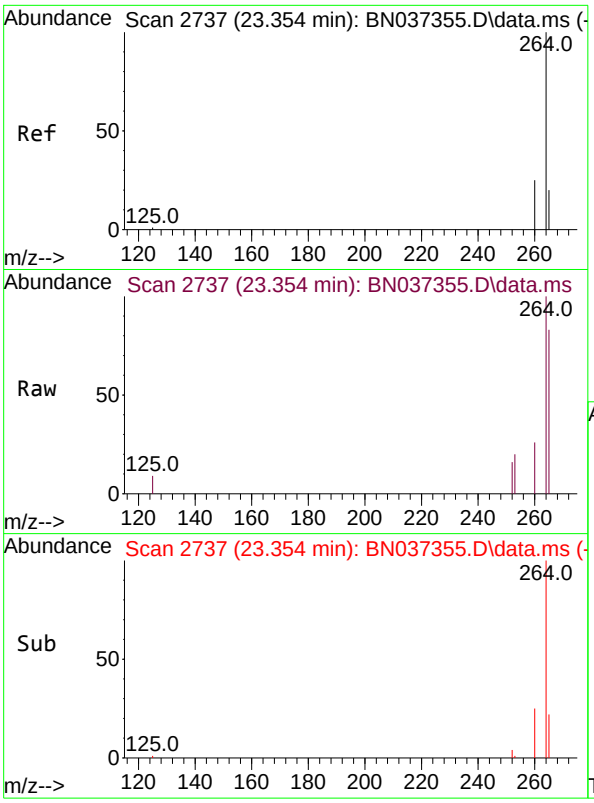


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.409 ng
RT: 21.099 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:149 Resp: 2603

Ion	Ratio	Lower	Upper
149	100		
167	31.9	24.6	37.0
279	7.2	6.5	9.7



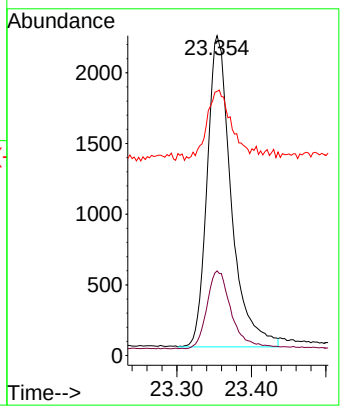


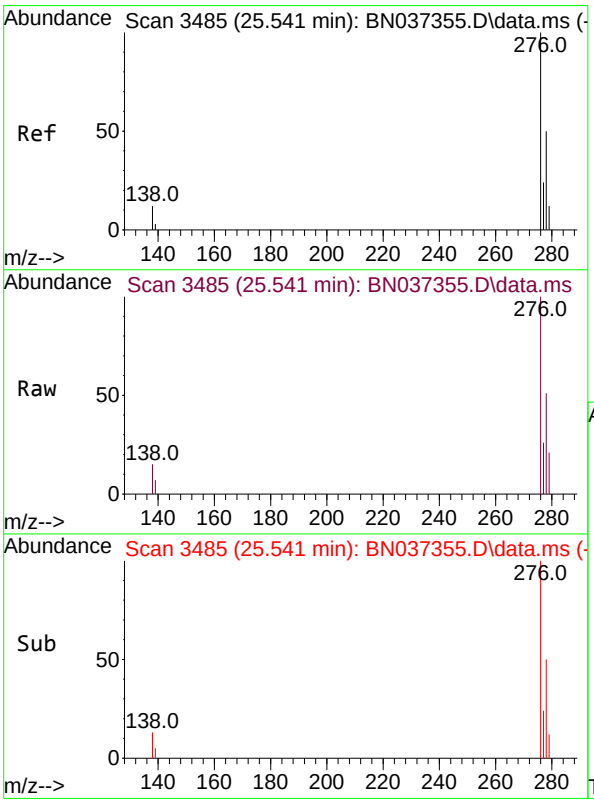
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 4943

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.2
265	82.6	71.4	107.0

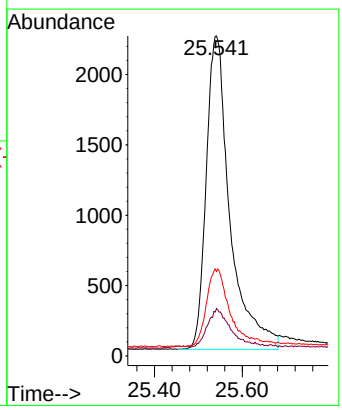


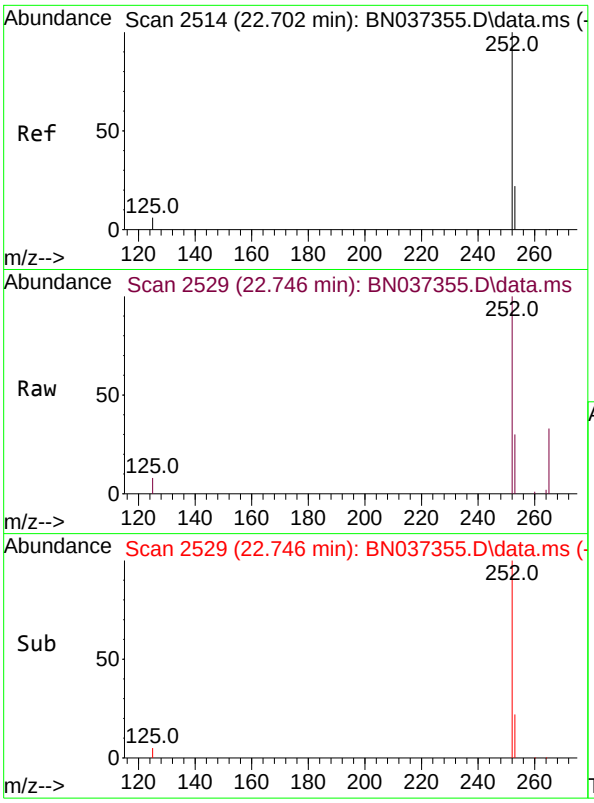


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.400 ng
RT: 25.541 min Scan# 3485
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:276 Resp: 8379

Ion	Ratio	Lower	Upper
276	100		
138	11.3	2.2	3.2#
277	23.4	17.1	25.7



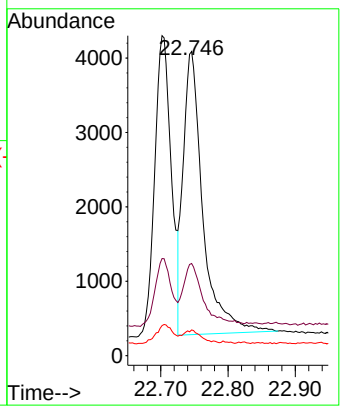


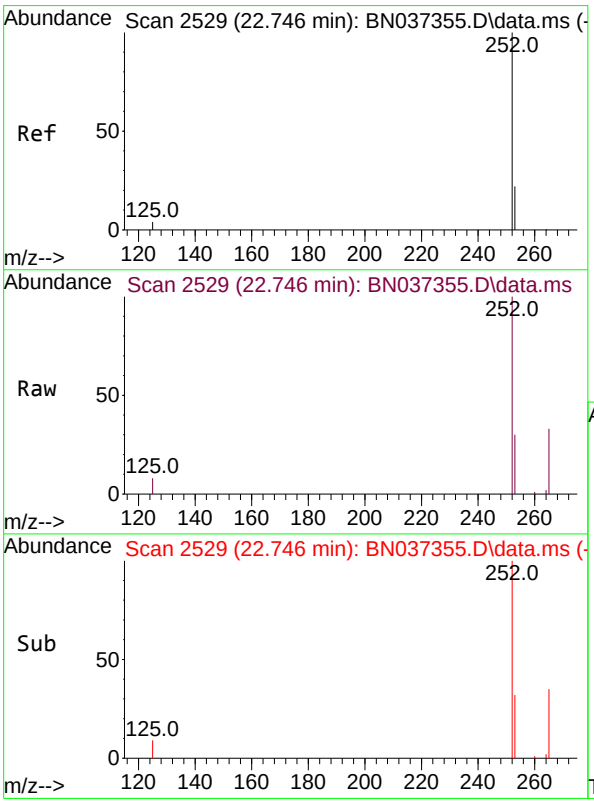
#37
Benzo(b)fluoranthene
Concen: 0.442 ng
RT: 22.746 min Scan# 2
Delta R.T. 0.044 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 7755

Ion	Ratio	Lower	Upper
252	100		
253	30.3	26.6	40.0
125	8.5	6.1	9.1

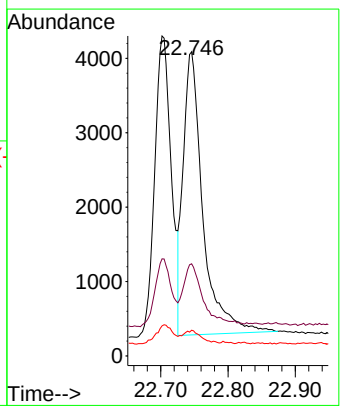


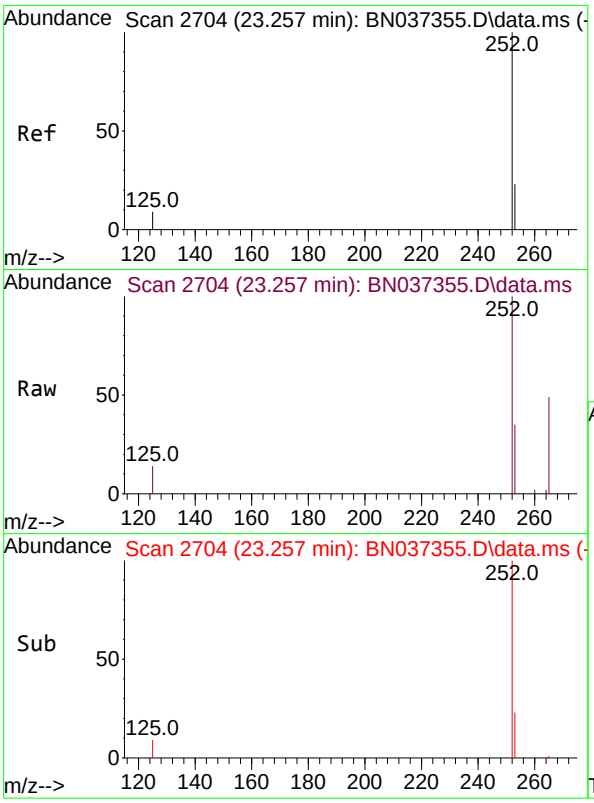


#38
Benzo(k)fluoranthene
Concen: 0.407 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:252 Resp: 7755

Ion	Ratio	Lower	Upper
252	100		
253	30.3	26.7	40.1
125	8.5	6.5	9.7



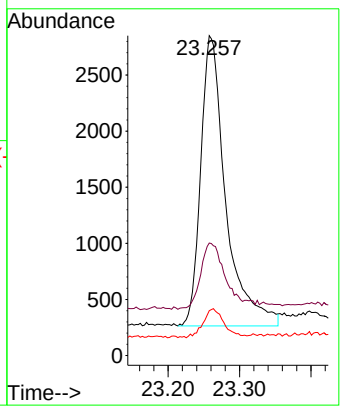


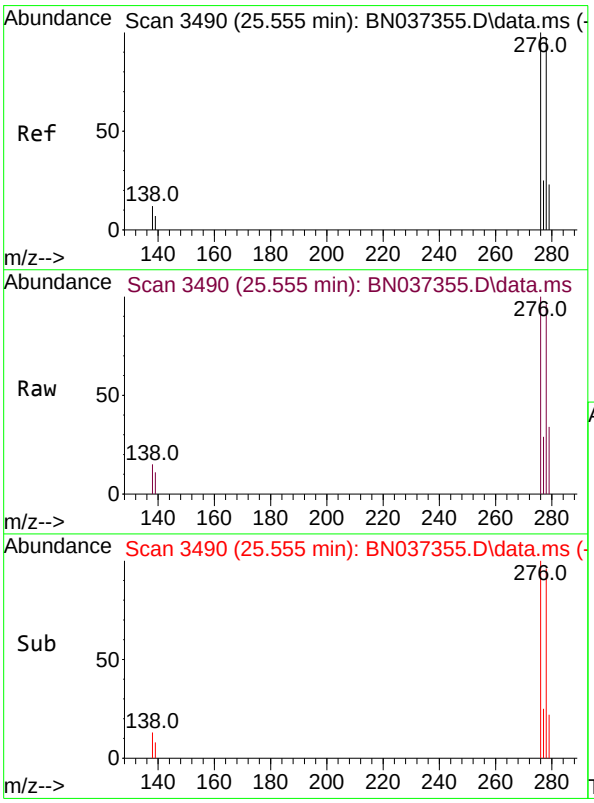
#39
Benzo(a)pyrene
Concen: 0.393 ng
RT: 23.257 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 6298

Ion	Ratio	Lower	Upper
252	100		
253	35.2	31.6	47.4
125	14.0	8.4	12.6#

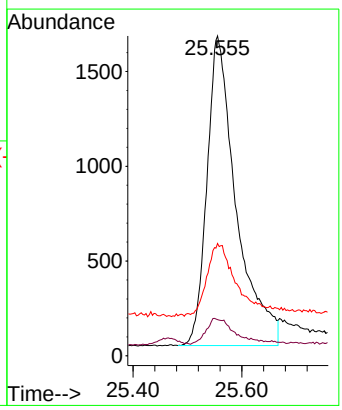


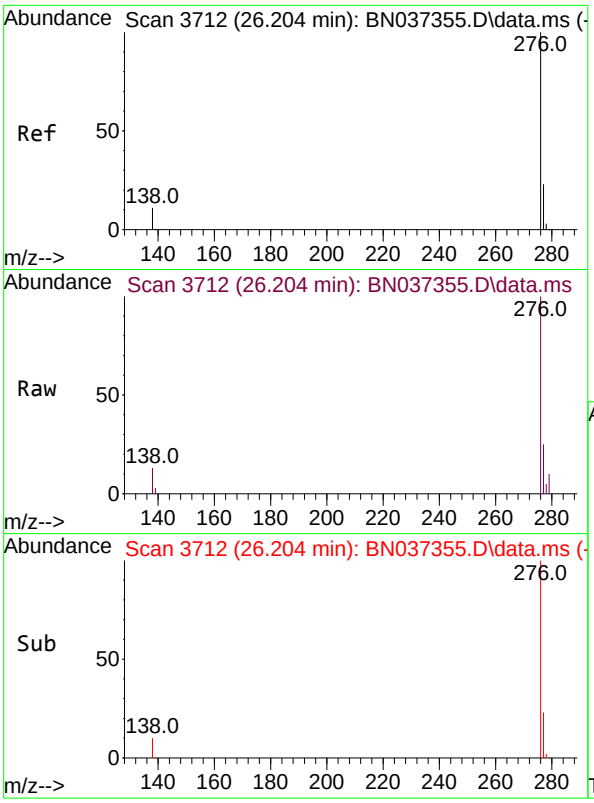


#40
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 25.555 min Scan# 3490
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:278 Resp: 6108

Ion	Ratio	Lower	Upper
278	100		
139	11.3	10.2	15.4
279	35.1	35.6	53.4#



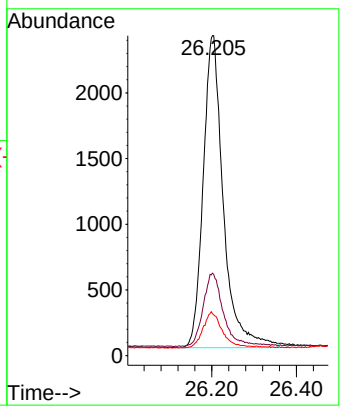


#41
Benzo(g,h,i)perylene
Concen: 0.408 ng
RT: 26.204 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 7852

Ion	Ratio	Lower	Upper
276	100		
277	25.4	22.7	34.1
138	12.7	9.4	14.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

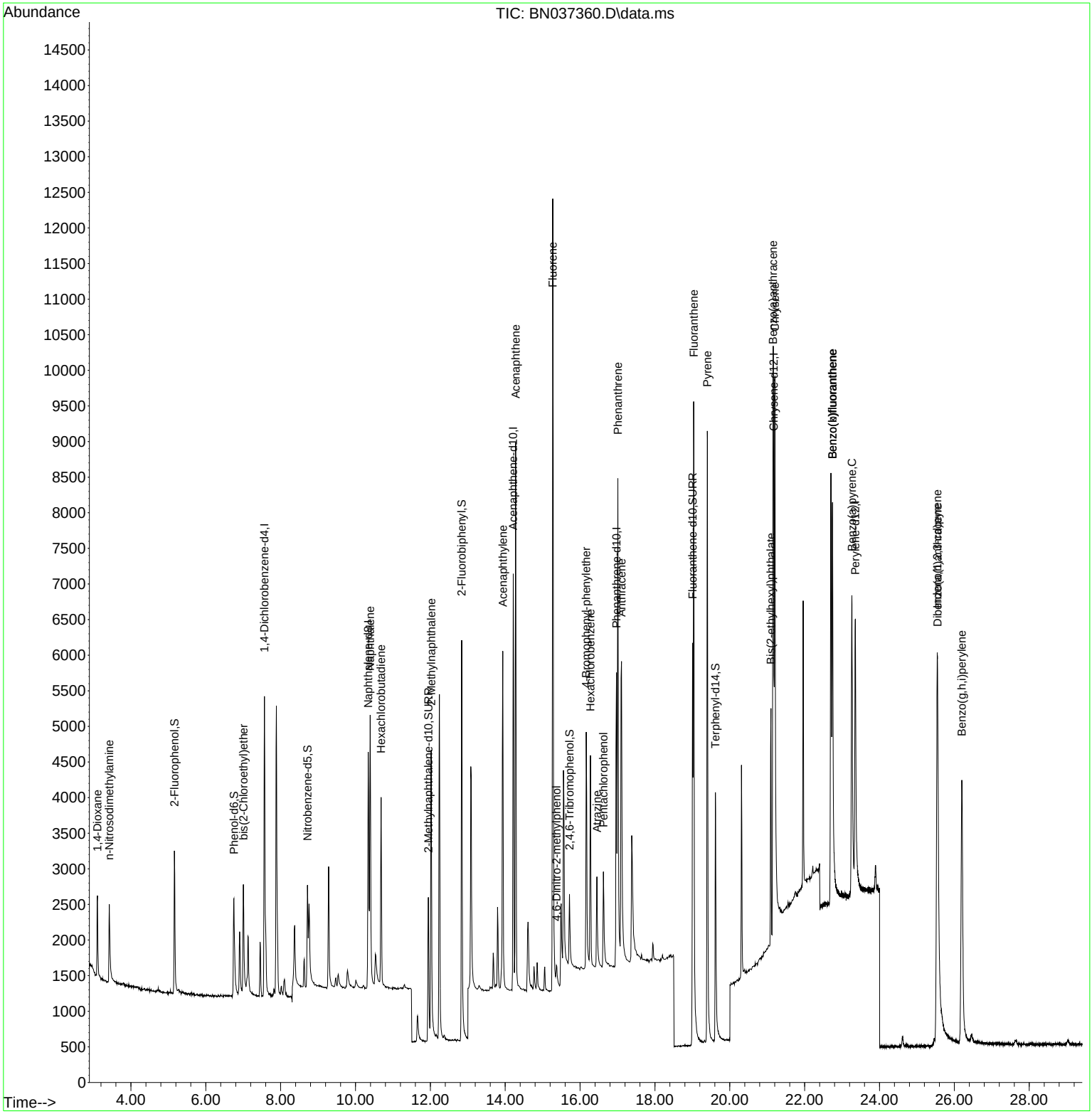
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	2309	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	5064	0.400	ng		# 0.00
13) Acenaphthene-d10	14.213	164	3457	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	7065	0.400	ng		# 0.00
29) Chrysene-d12	21.171	240	5560	0.400	ng		# 0.00
35) Perylene-d12	23.354	264	5756	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1841	0.399	ng		0.00
5) Phenol-d6	6.752	99	1797	0.378	ng		0.00
8) Nitrobenzene-d5	8.717	82	1658	0.405	ng		0.00
11) 2-Methylnaphthalene-d10	11.945	152	3394	0.414	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	756	0.373	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	6049	0.398	ng		0.00
27) Fluoranthene-d10	19.008	212	7940	0.392	ng		0.00
31) Terphenyl-d14	19.616	244	5266	0.416	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	942	0.401	ng		91
3) n-Nitrosodimethylamine	3.422	42	845	0.393	ng	#	70
6) bis(2-Chloroethyl)ether	7.004	93	1718	0.407	ng		93
9) Naphthalene	10.394	128	5338	0.399	ng	#	89
10) Hexachlorobutadiene	10.682	225	2157	0.409	ng	#	99
12) 2-Methylnaphthalene	12.021	142	3620	0.388	ng	#	91
16) Acenaphthylene	13.935	152	5463	0.376	ng		98
17) Acenaphthene	14.277	154	3720	0.389	ng		99
18) Fluorene	15.272	166	5193	0.386	ng		99
20) 4,6-Dinitro-2-methylph...	15.368	198	491	0.289	ng		92
21) 4-Bromophenyl-phenylether	16.165	248	1905	0.379	ng	#	84
22) Hexachlorobenzene	16.276	284	2222	0.406	ng		98
23) Atrazine	16.450	200	1453	0.362	ng	#	84
24) Pentachlorophenol	16.624	266	881	0.323	ng		97
25) Phenanthrene	17.009	178	7743	0.378	ng		99
26) Anthracene	17.108	178	6739	0.357	ng		99
28) Fluoranthene	19.036	202	9535	0.369	ng	#	99
30) Pyrene	19.398	202	9570	0.424	ng		100
32) Benzo(a)anthracene	21.153	228	6805	0.372	ng		99
33) Chrysene	21.207	228	9119	0.412	ng		98
34) Bis(2-ethylhexyl)phtha...	21.099	149	3022	0.403	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	9492	0.368	ng	#	92
37) Benzo(b)fluoranthene	22.746	252	9472	0.447	ng		95
38) Benzo(k)fluoranthene	22.746	252	9472	0.412	ng		95
39) Benzo(a)pyrene	23.260	252	7258	0.382	ng	#	89
40) Dibenzo(a,h)anthracene	25.553	278	7116	0.367	ng	#	87
41) Benzo(g,h,i)perylene	26.199	276	8707	0.378	ng		95

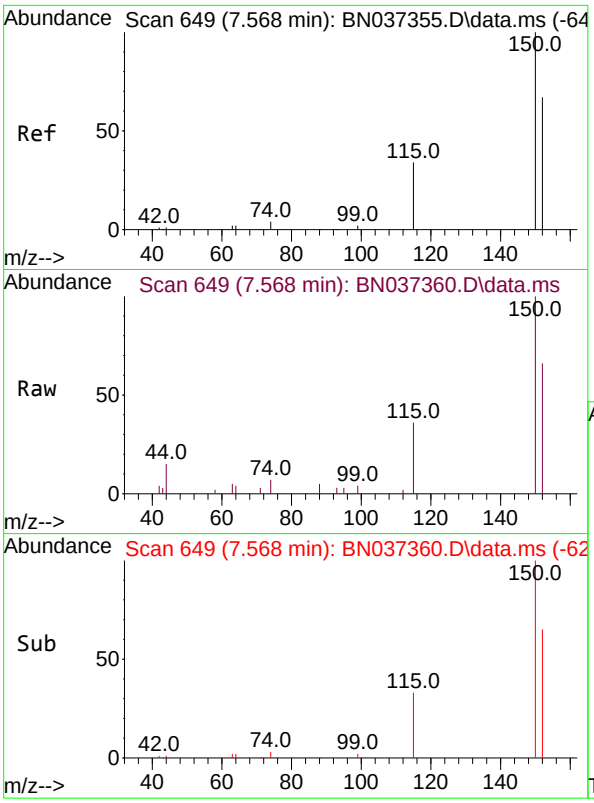
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



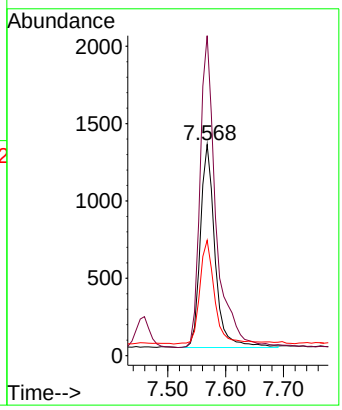


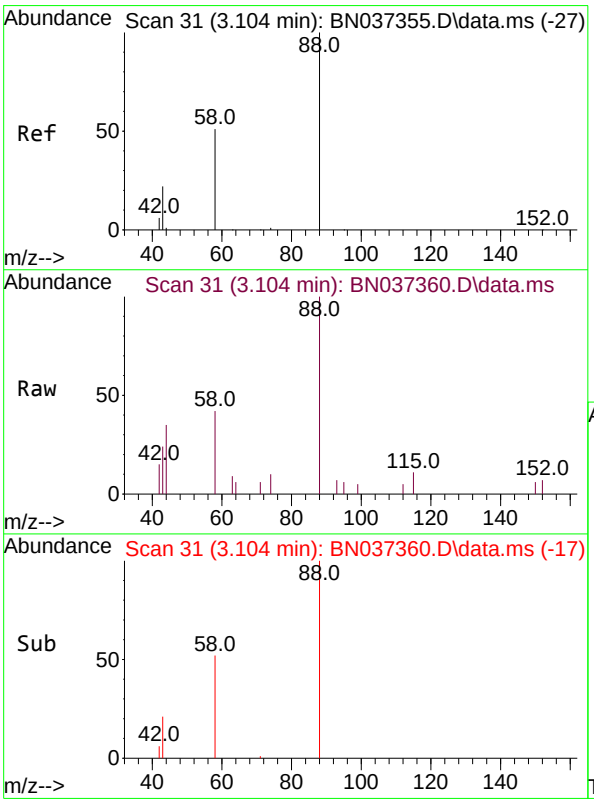
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:152 Resp: 2309

Ion	Ratio	Lower	Upper
152	100		
150	151.6	112.7	169.1
115	54.6	45.9	68.9

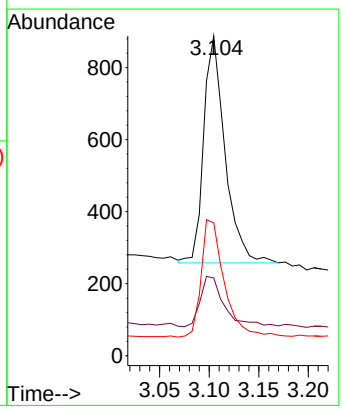


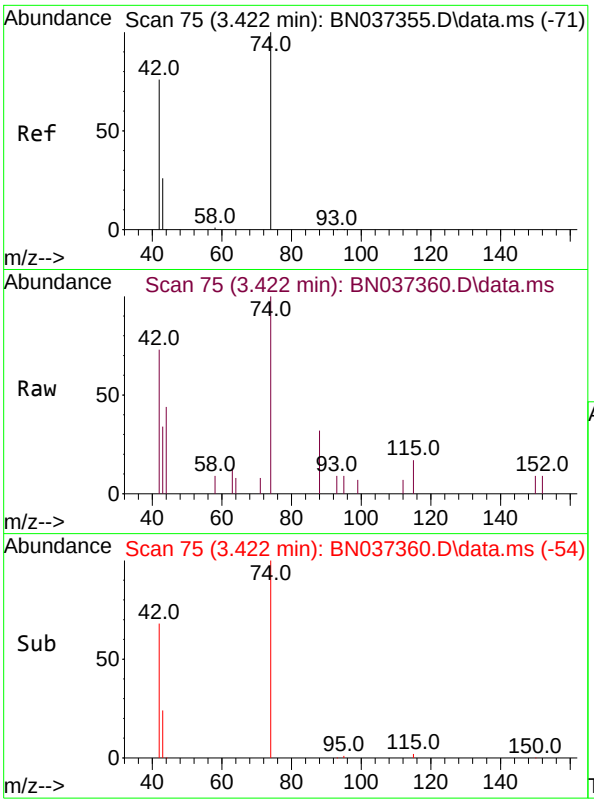


#2
1,4-Dioxane
Concen: 0.401 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 88 Resp: 942

Ion	Ratio	Lower	Upper
88	100		
43	24.5	21.0	31.6
58	55.4	38.0	57.0



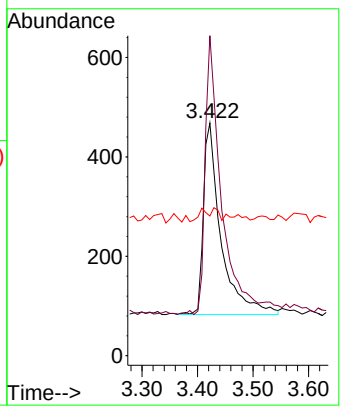


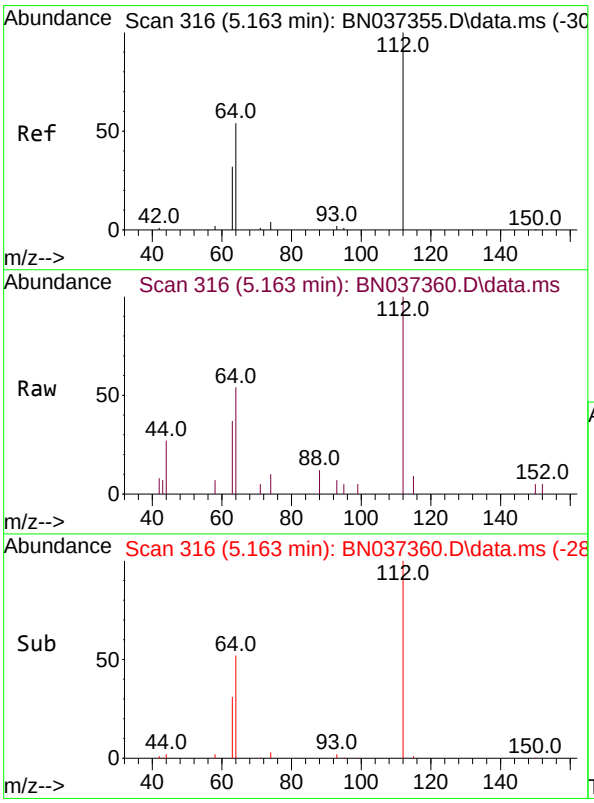
#3
n-Nitrosodimethylamine
Concen: 0.393 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion: 42 Resp: 845

Ion	Ratio	Lower	Upper
42	100		
74	137.3	84.3	126.5#
44	2.5	5.0	7.4#

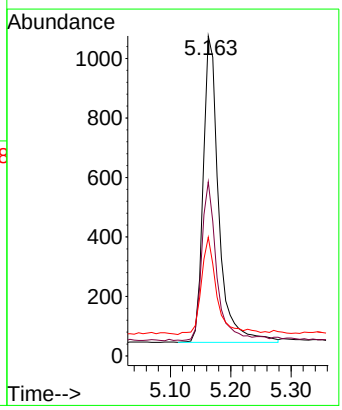


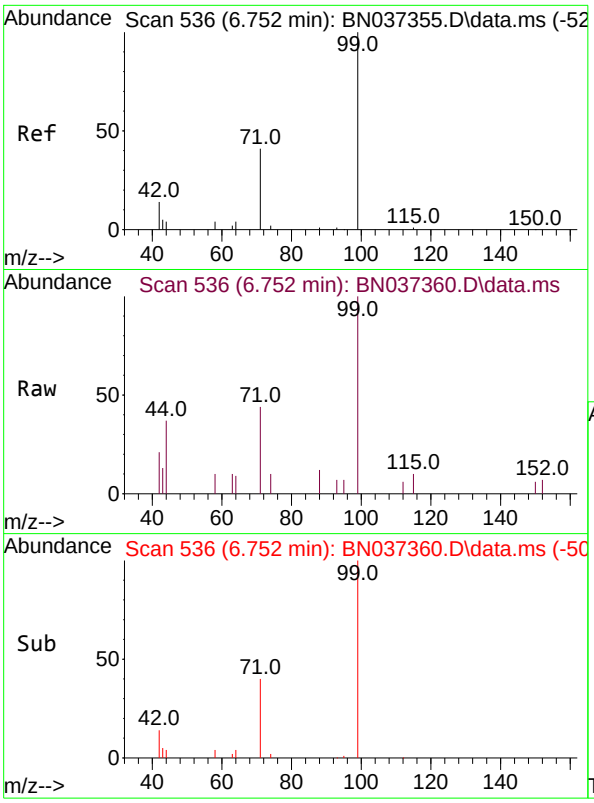


#4
2-Fluorophenol
Concen: 0.399 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:112 Resp: 1841

Ion	Ratio	Lower	Upper
112	100		
64	50.3	38.7	58.1
63	31.9	26.4	39.6



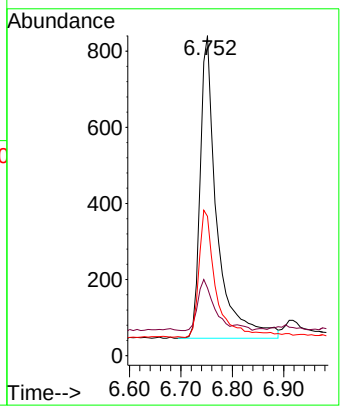


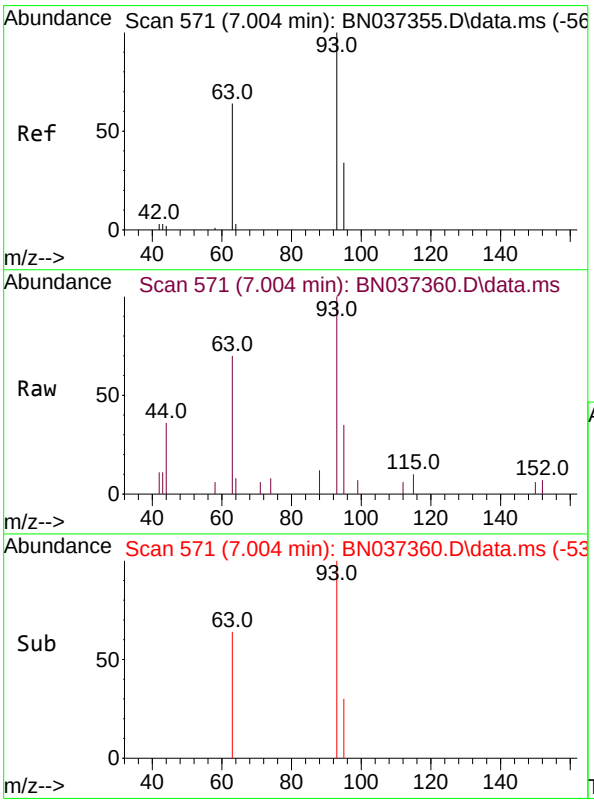
#5
Phenol-d6
Concen: 0.378 ng
RT: 6.752 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion: 99 Resp: 1797

Ion	Ratio	Lower	Upper
99	100		
42	15.9	19.8	29.8#
71	43.3	42.6	64.0

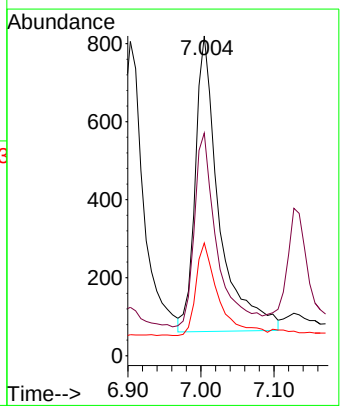


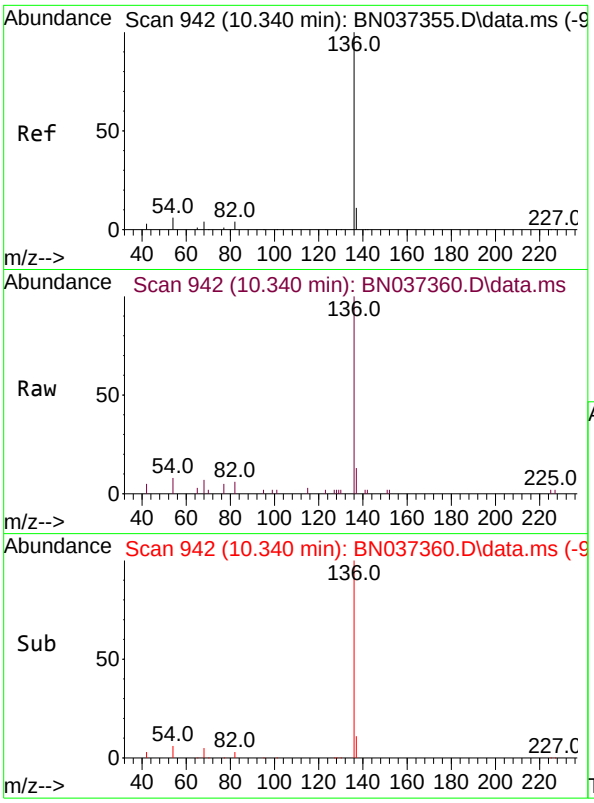


#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 93 Resp: 1718

Ion	Ratio	Lower	Upper
93	100		
63	61.8	53.2	79.8
95	29.5	27.3	40.9



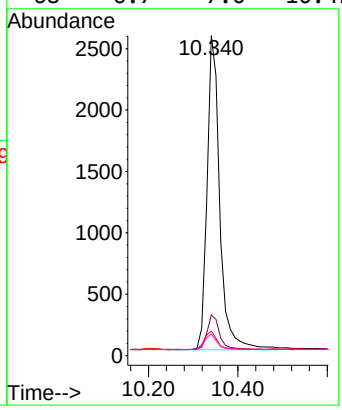


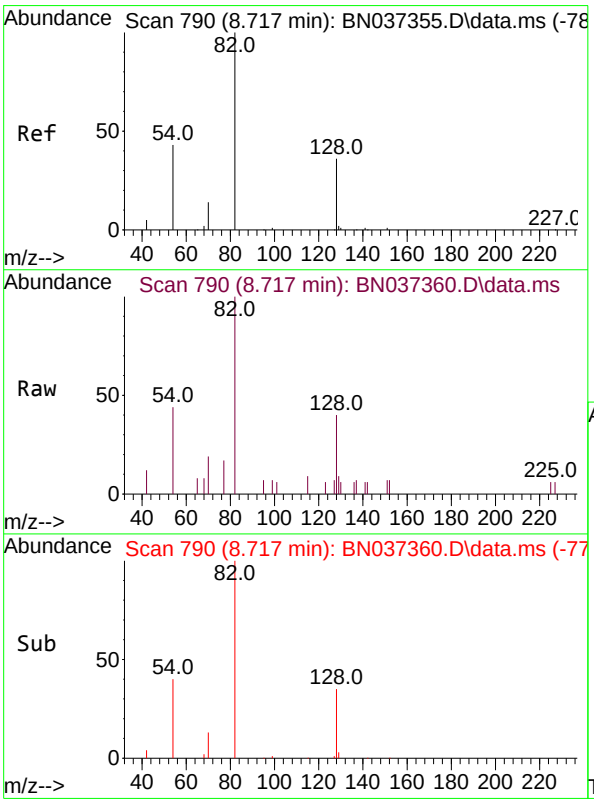
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:136 Resp: 5064

Ion	Ratio	Lower	Upper
136	100		
137	12.7	12.2	18.2
54	7.6	8.8	13.2#
68	6.7	7.0	10.4#

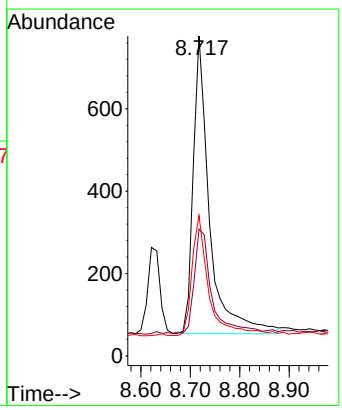


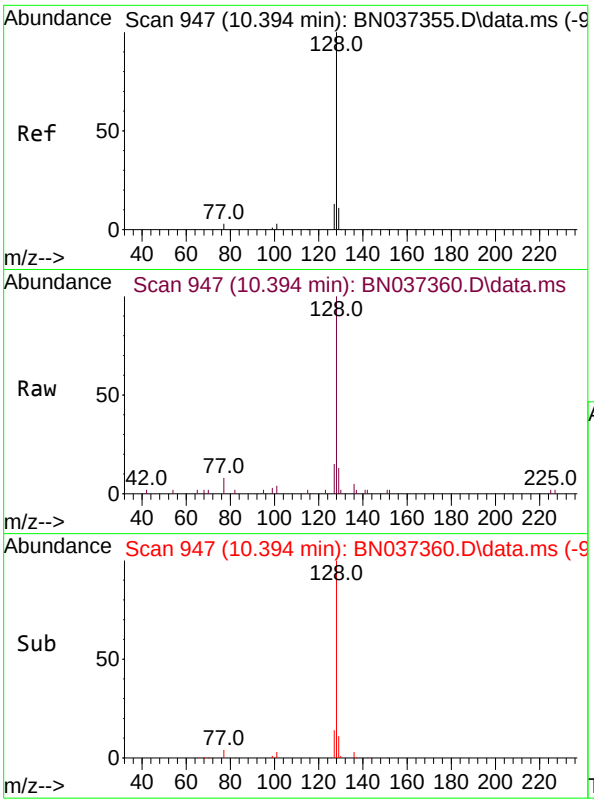


#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 82 Resp: 1658

Ion	Ratio	Lower	Upper
82	100		
128	39.6	42.5	63.7#
54	43.9	43.2	64.8



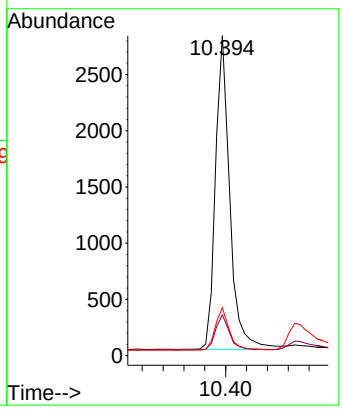


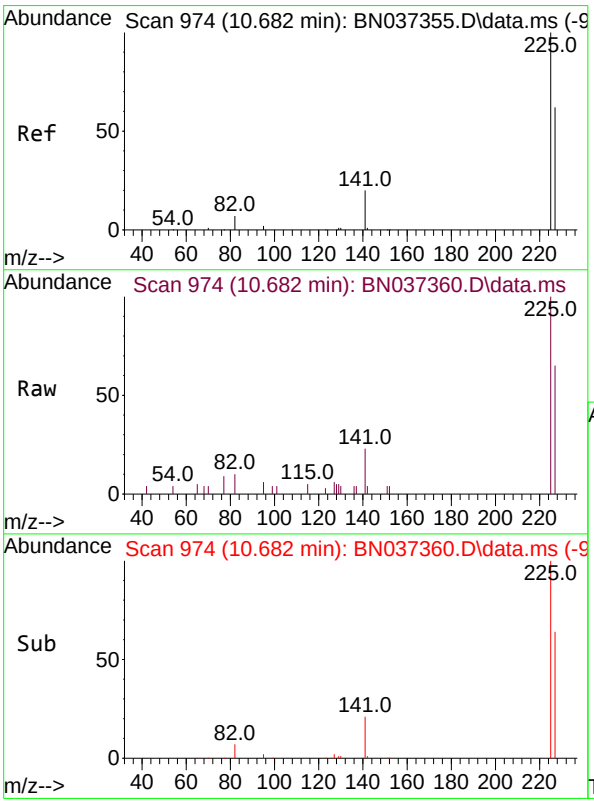
#9
Naphthalene
Concen: 0.399 ng
RT: 10.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:128 Resp: 5338

Ion	Ratio	Lower	Upper
128	100		
129	12.7	14.0	21.0#
127	15.0	15.8	23.8#

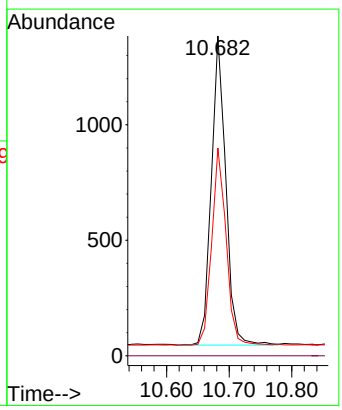


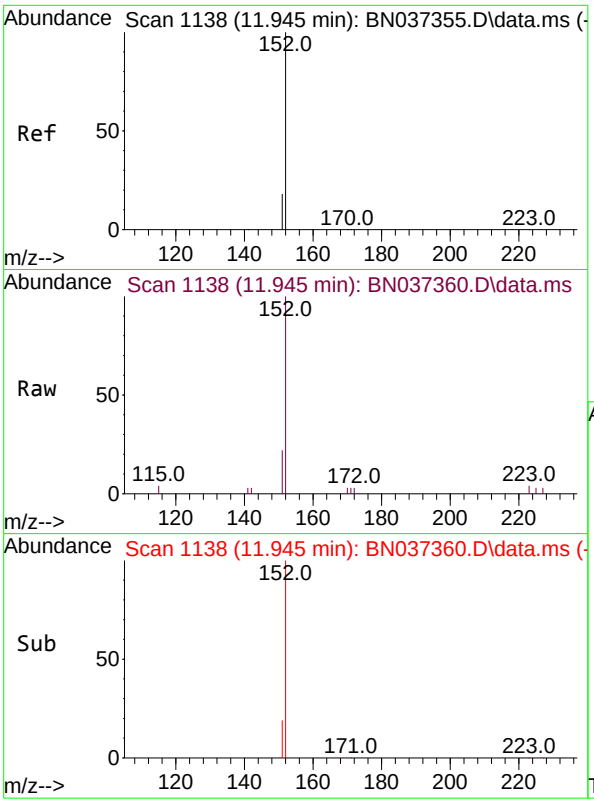


#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:225 Resp: 2157

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	50.3	75.5



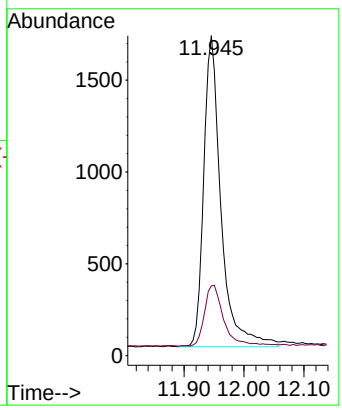


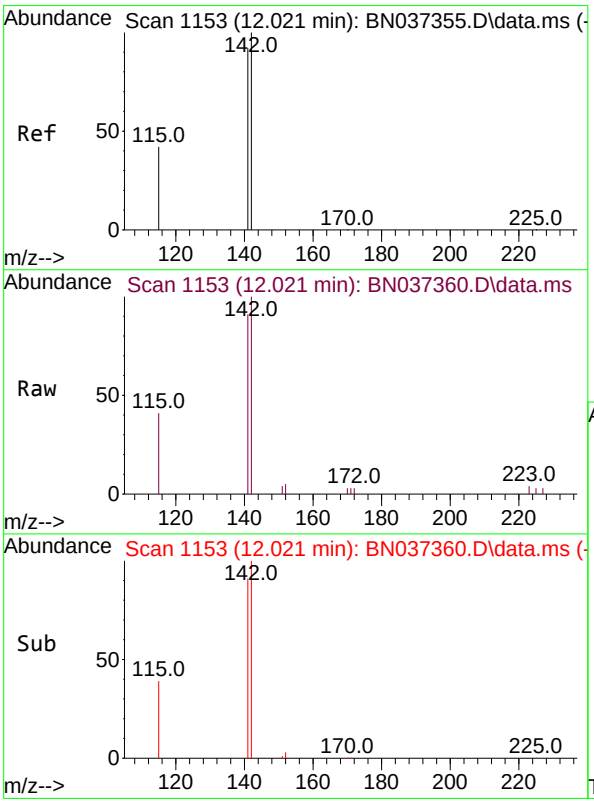
#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 11.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:152 Resp: 3394

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.4	26.0

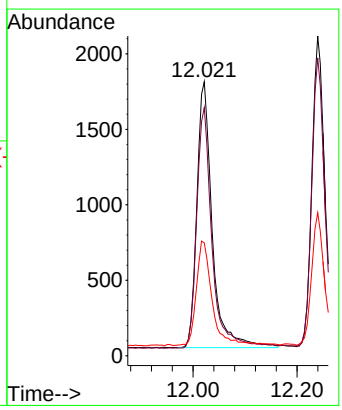


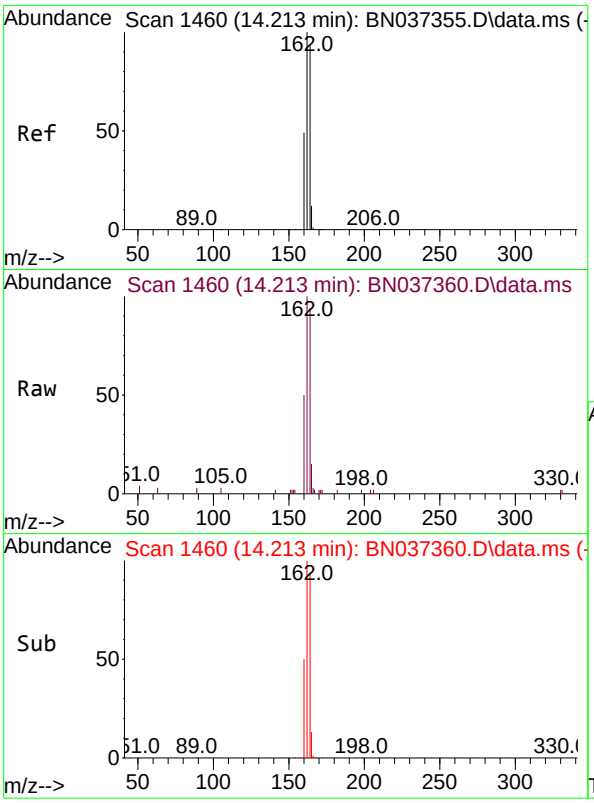


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:142 Resp: 3620

Ion	Ratio	Lower	Upper
142	100		
141	90.6	70.2	105.2
115	41.2	43.0	64.4#



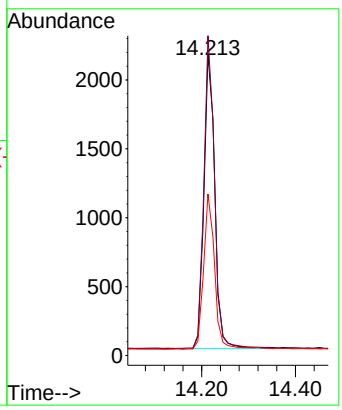


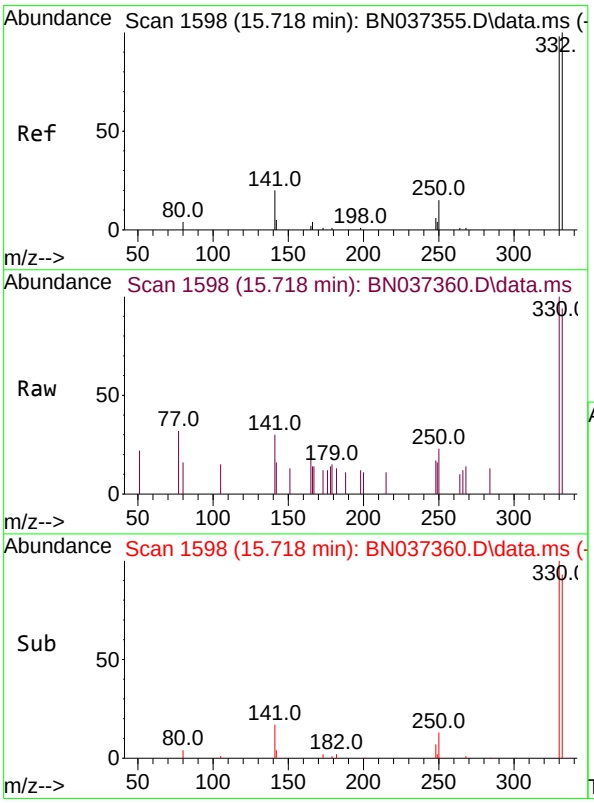
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:164 Resp: 3457

Ion	Ratio	Lower	Upper
164	100		
162	106.3	81.5	122.3
160	53.6	43.0	64.4

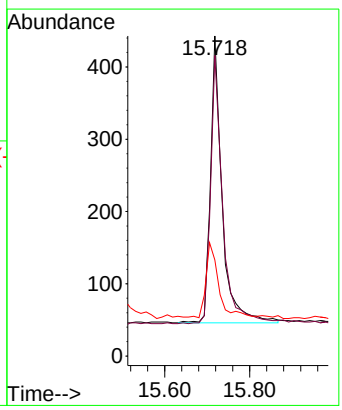


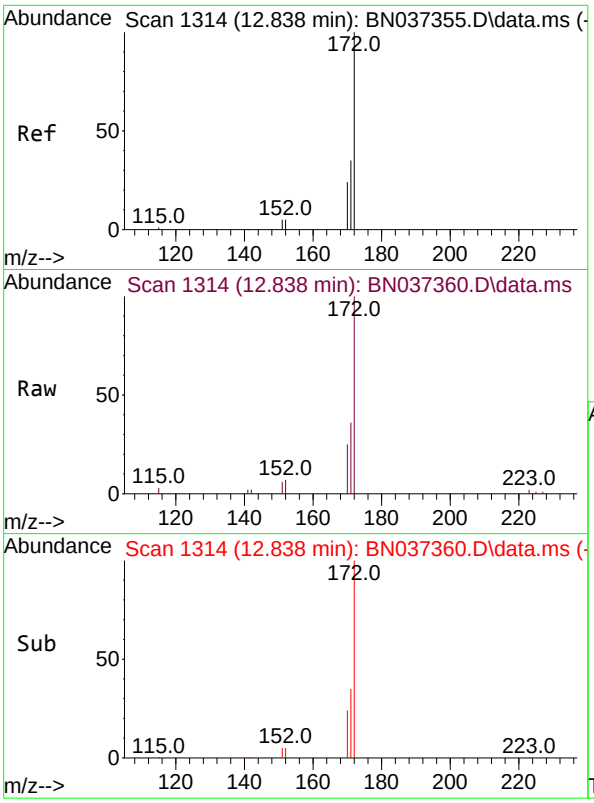


#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:330 Resp: 756

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.4	117.6
141	28.0	24.4	36.6



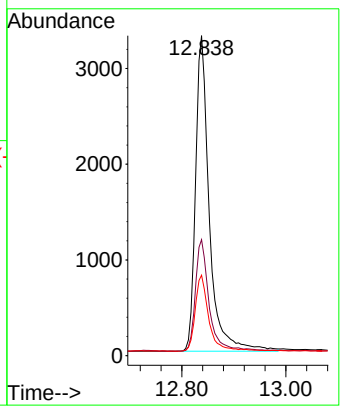


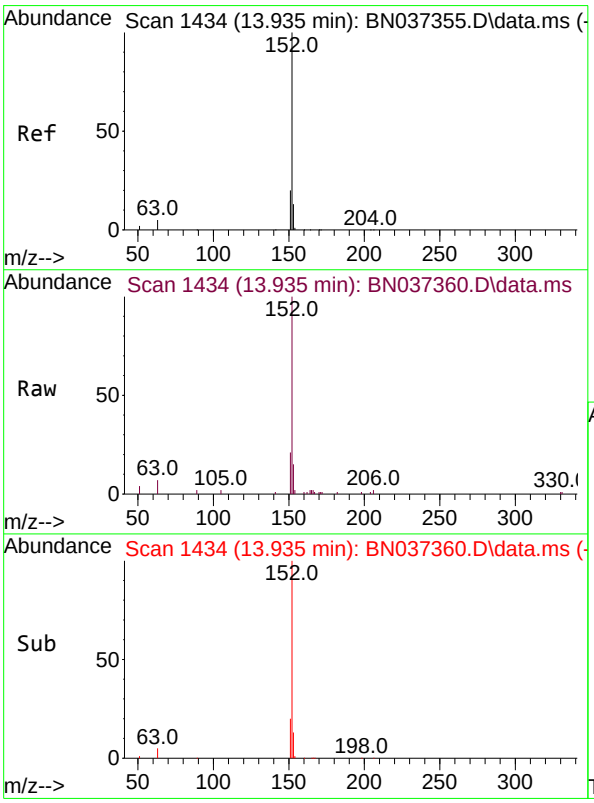
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.838 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:172 Resp: 6049

Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.8	46.2
170	25.1	21.9	32.9

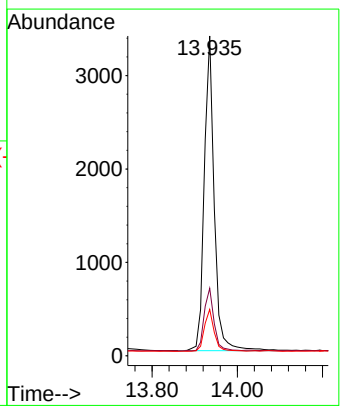


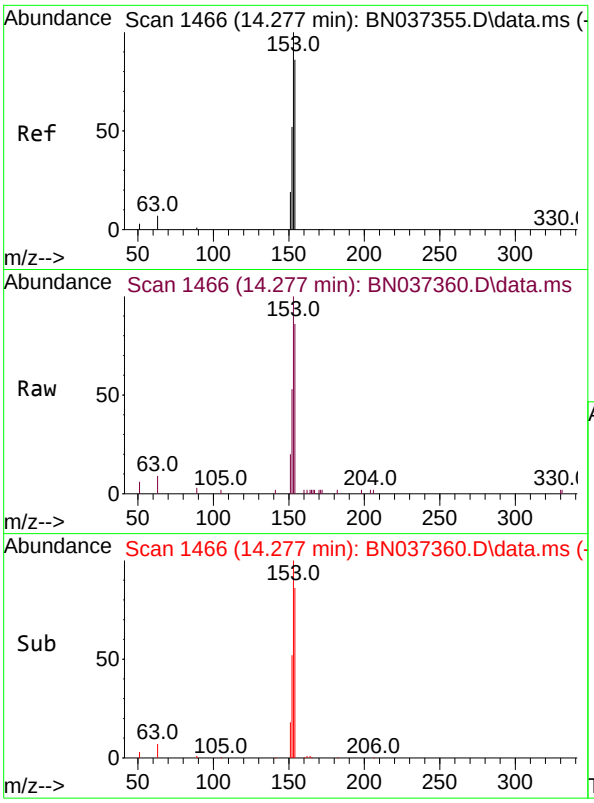


#16
Acenaphthylene
Concen: 0.376 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:152 Resp: 5463

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8
153	13.3	10.2	15.2



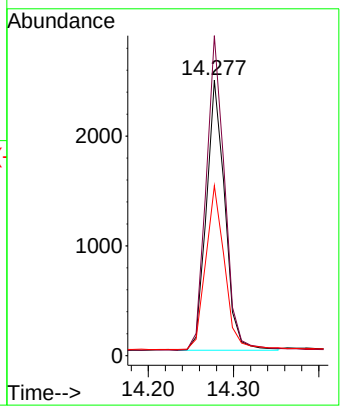


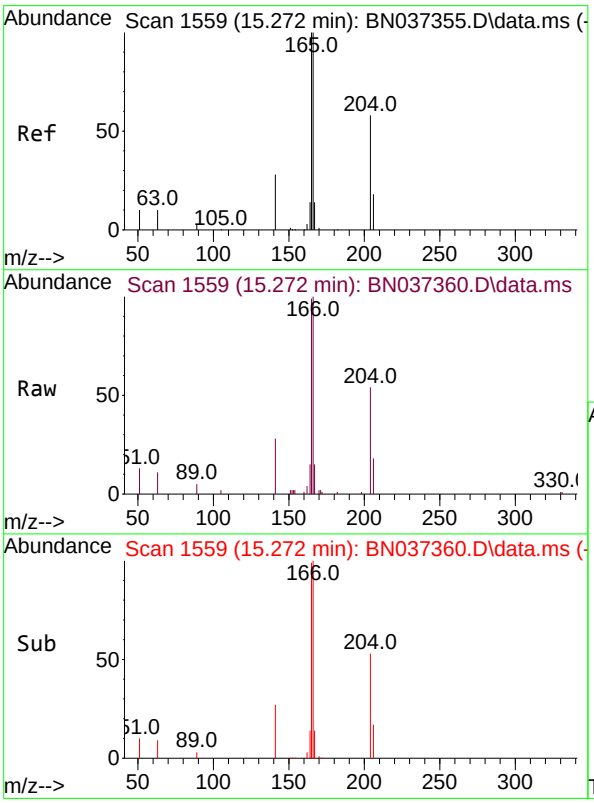
#17
Acenaphthene
Concen: 0.389 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:154 Resp: 3720

Ion	Ratio	Lower	Upper
154	100		
153	117.1	93.1	139.7
152	62.3	48.6	73.0

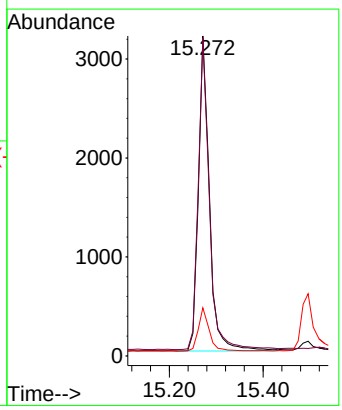


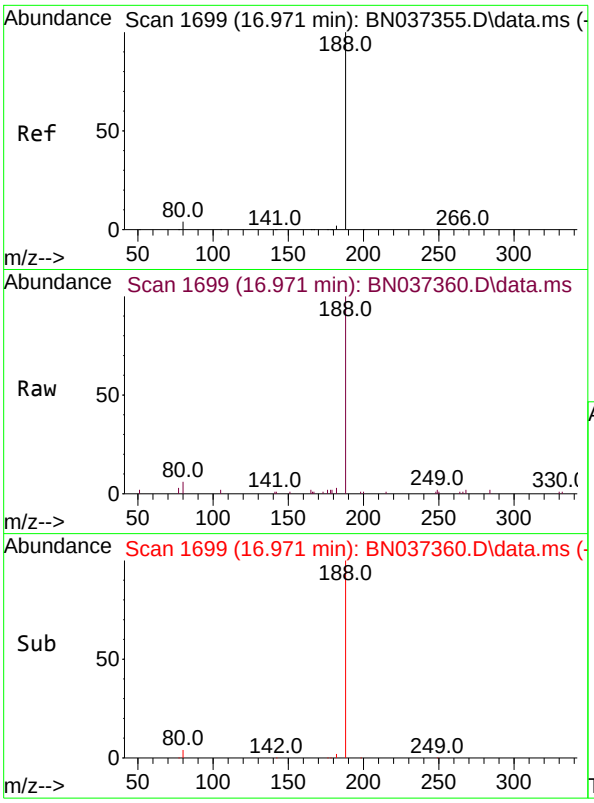


#18
Fluorene
Concen: 0.386 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:166 Resp: 5193

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.5	119.3
167	13.4	10.7	16.1



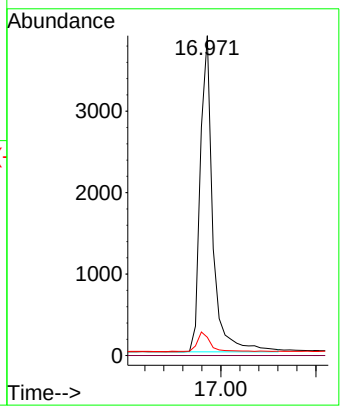


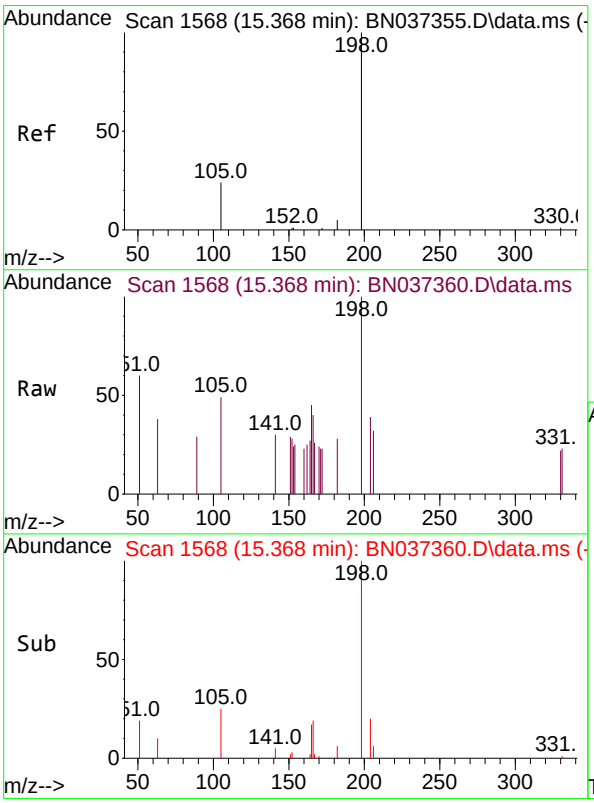
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:188 Resp: 7065

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	6.2	9.2#

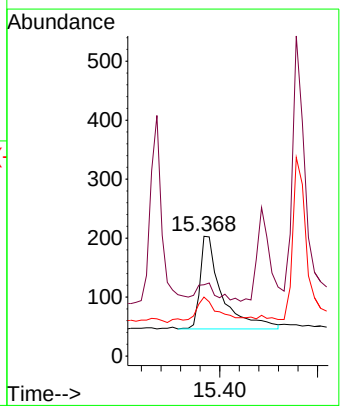


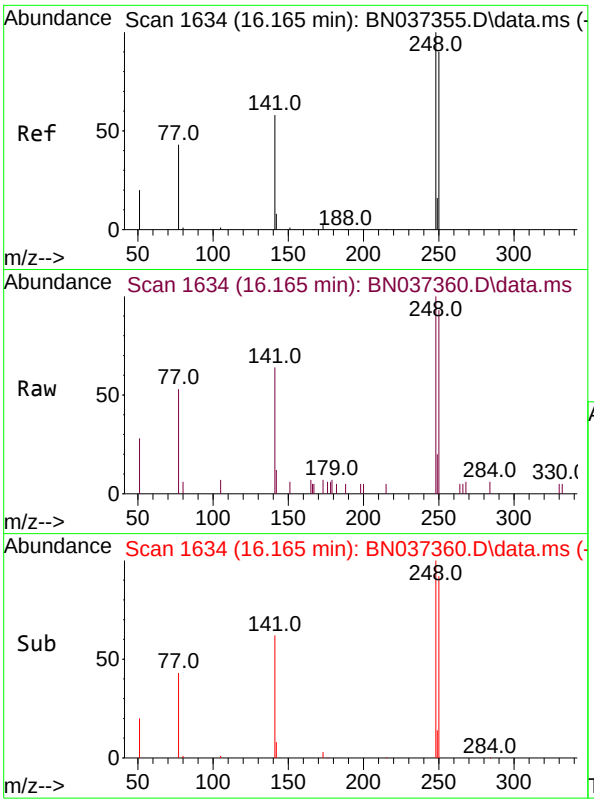


#20
4,6-Dinitro-2-methylphenol
Concen: 0.289 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:198 Resp: 491

Ion	Ratio	Lower	Upper
198	100		
51	59.6	51.4	77.0
105	49.3	45.5	68.3



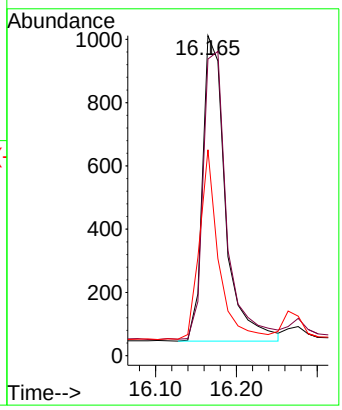


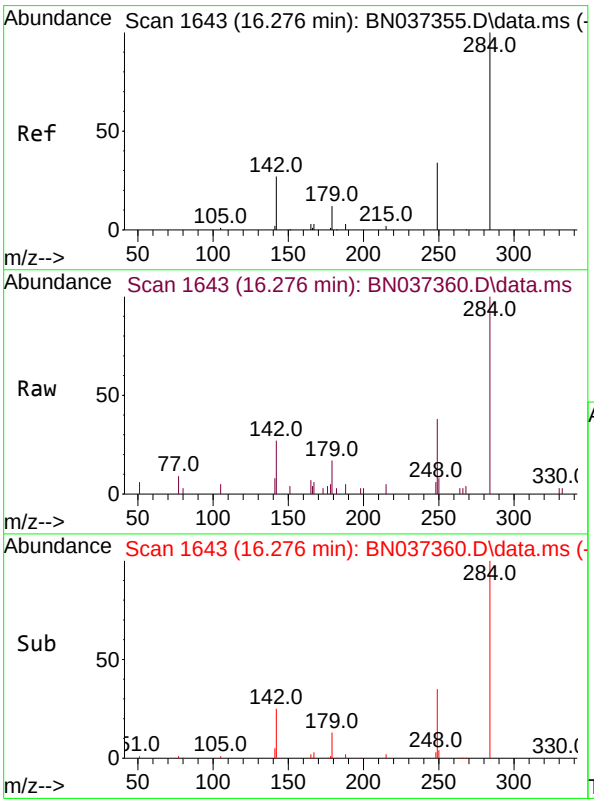
#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:248 Resp: 1905

Ion	Ratio	Lower	Upper
248	100		
250	92.7	80.4	120.6
141	64.3	33.3	49.9#

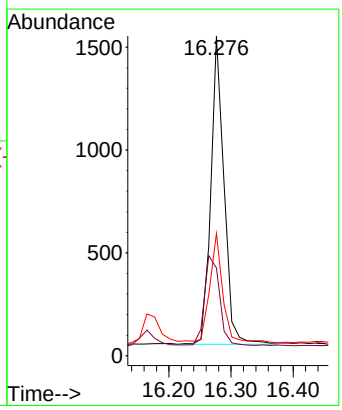


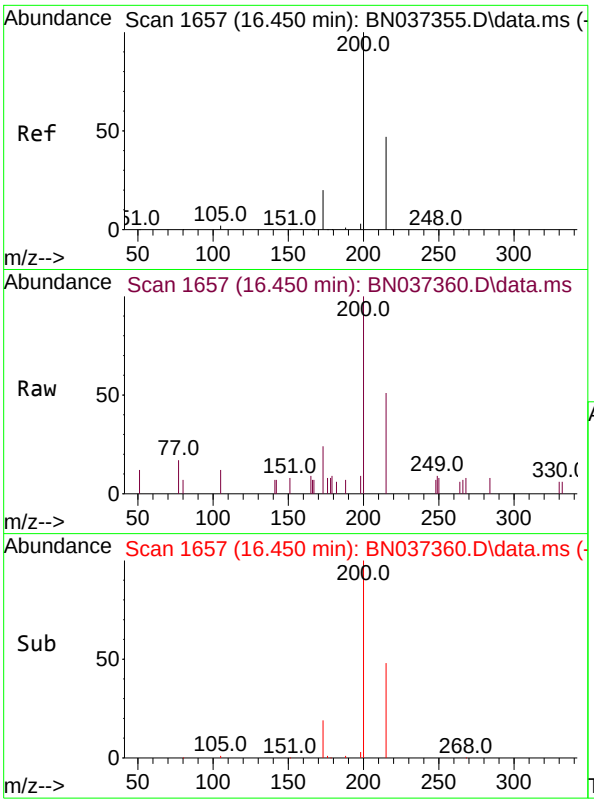


#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:284 Resp: 2222

Ion	Ratio	Lower	Upper
284	100		
142	33.0	27.0	40.6
249	35.0	28.8	43.2



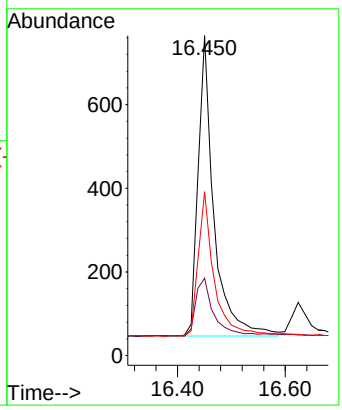


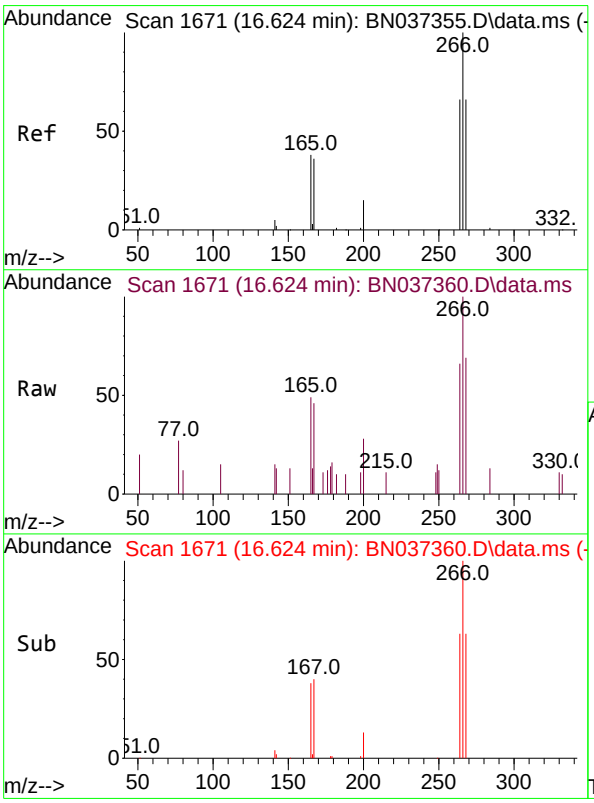
#23
Atrazine
Concen: 0.362 ng
RT: 16.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:200 Resp: 1453

Ion	Ratio	Lower	Upper
200	100		
173	24.2	29.2	43.8#
215	51.2	48.8	73.2

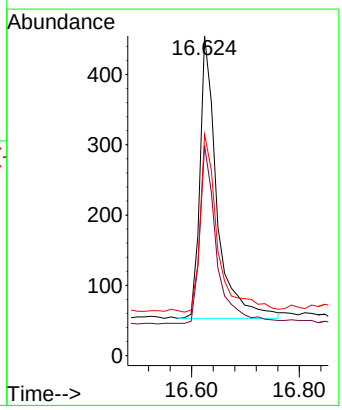


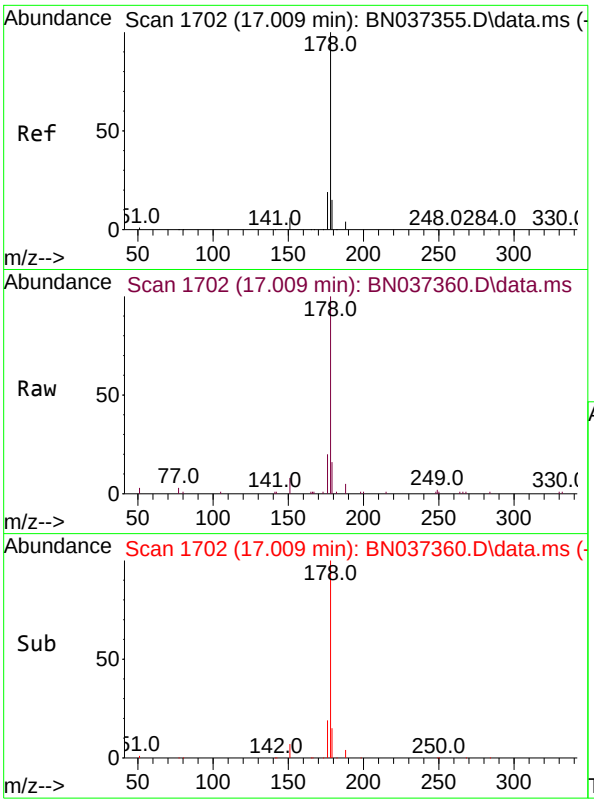


#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:266 Resp: 881

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.3	75.5
268	65.0	55.3	82.9



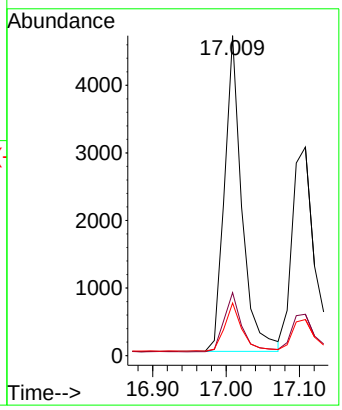


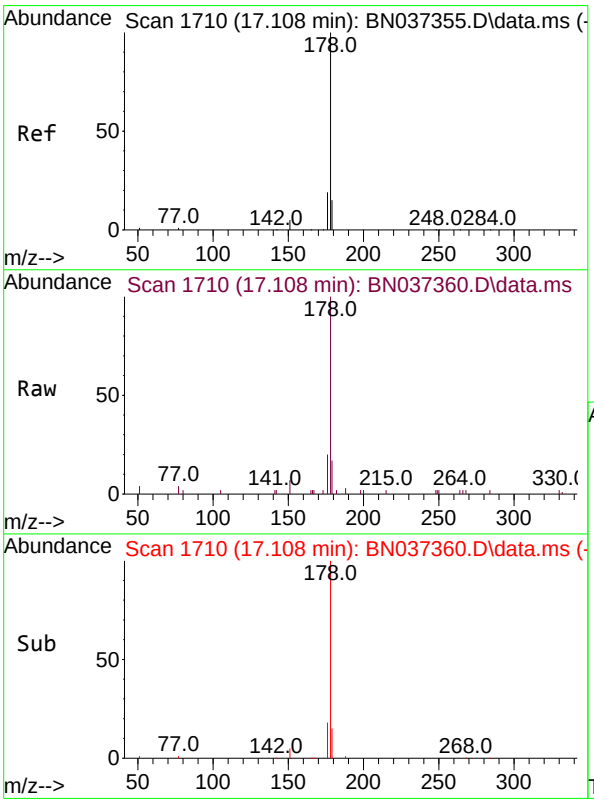
#25
Phenanthrene
Concen: 0.378 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:178 Resp: 7743

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.5	12.9	19.3

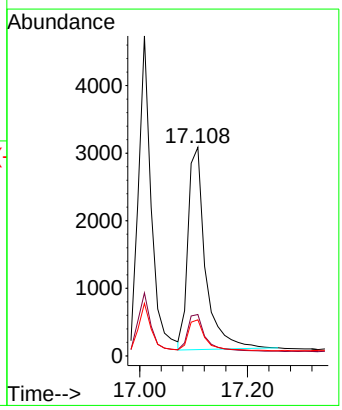


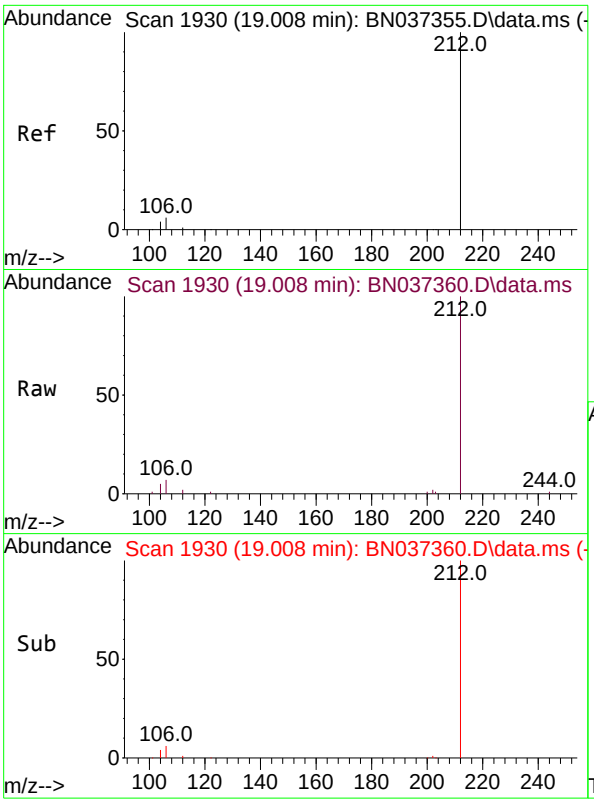


#26
Anthracene
Concen: 0.357 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:178 Resp: 6739

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.7	22.1
179	15.7	13.0	19.6



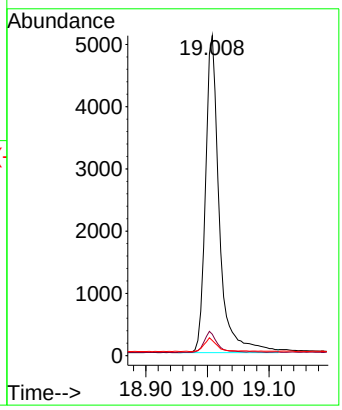


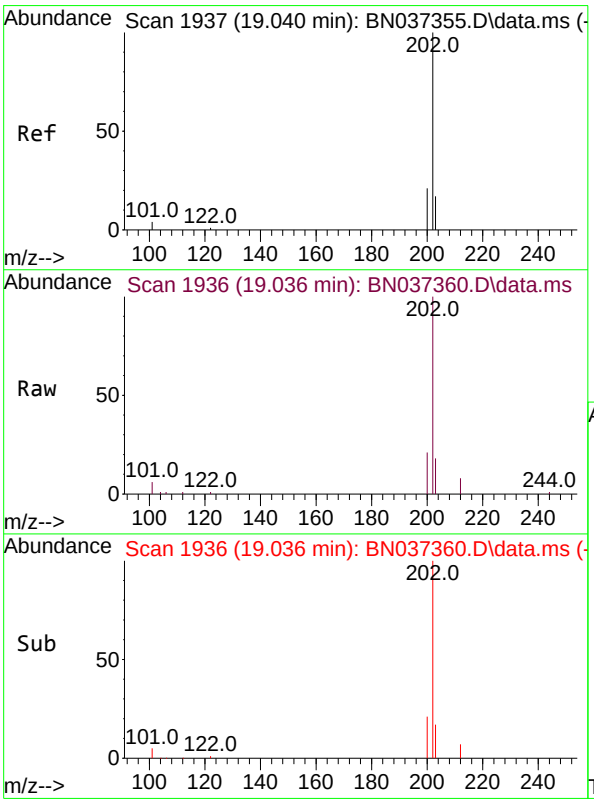
#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 19.008 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:212 Resp: 7940

Ion	Ratio	Lower	Upper
212	100		
106	6.2	3.0	4.4#
104	3.9	2.0	3.0#

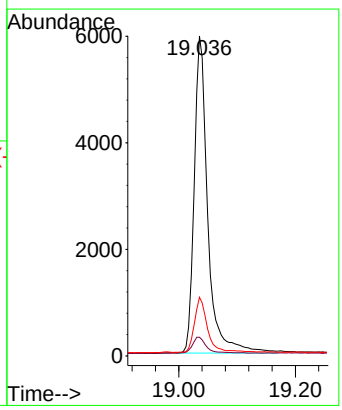


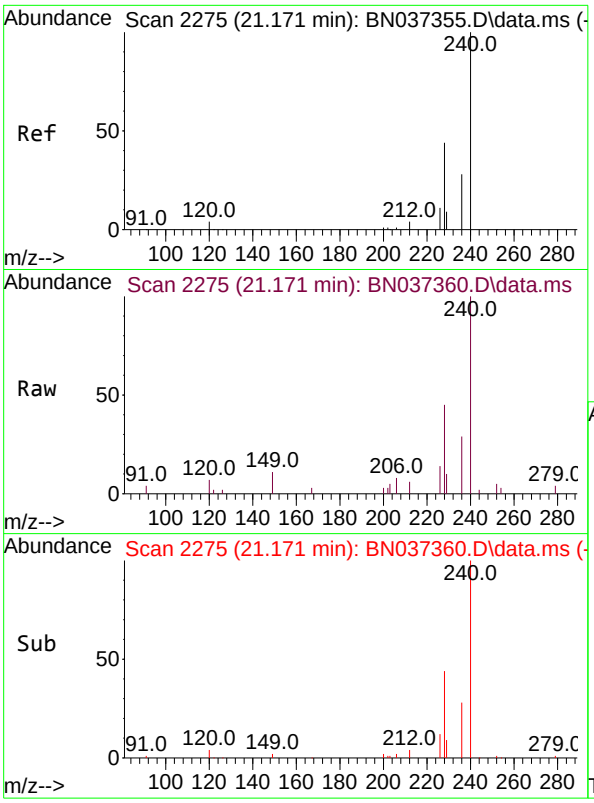


#28
Fluoranthene
Concen: 0.369 ng
RT: 19.036 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:202 Resp: 9535

Ion	Ratio	Lower	Upper
202	100		
101	5.3	3.0	4.6#
203	16.8	13.7	20.5



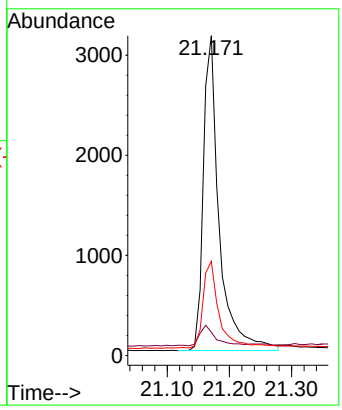


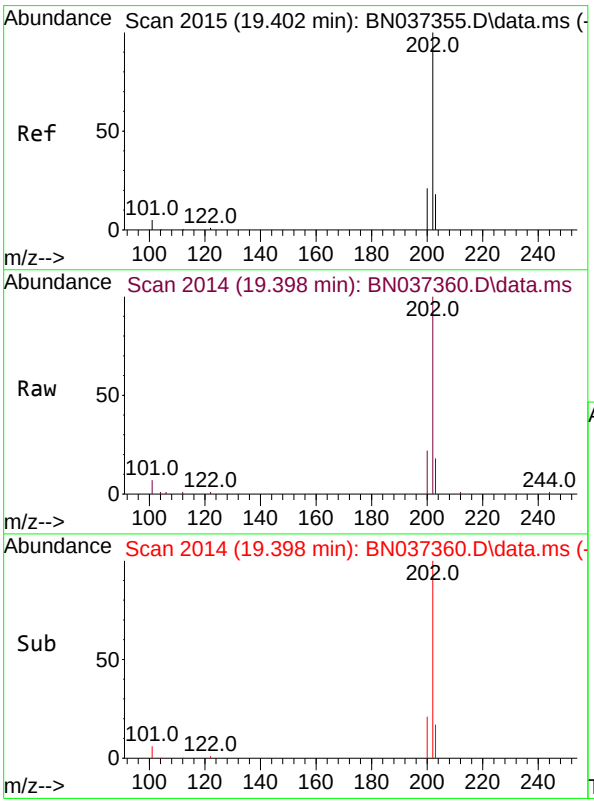
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:240 Resp: 5560

Ion	Ratio	Lower	Upper
240	100		
120	7.3	7.5	11.3#
236	29.5	24.9	37.3

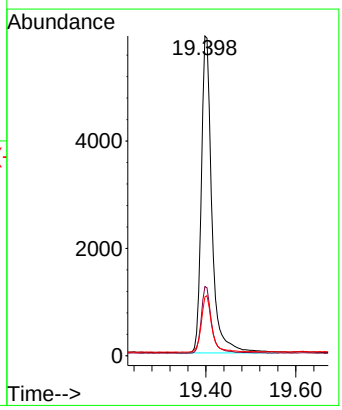


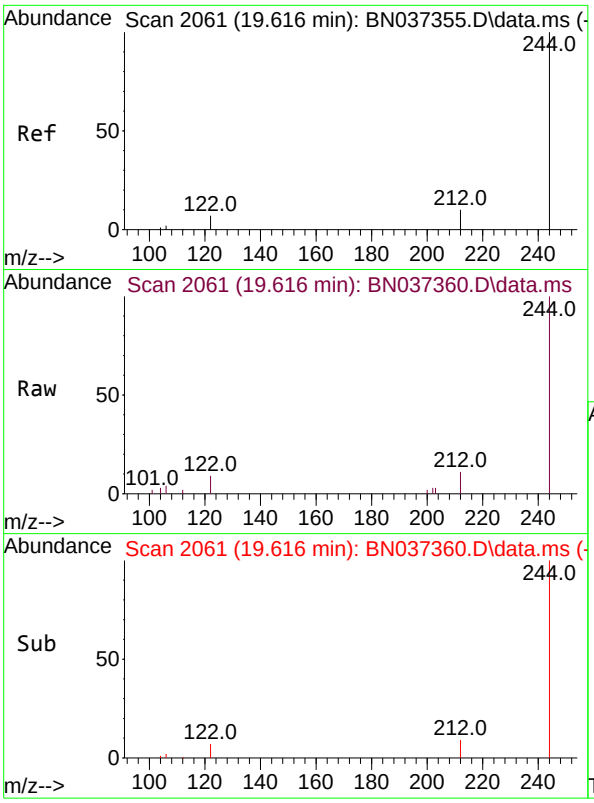


#30
Pyrene
Concen: 0.424 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.005 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:202 Resp: 9570

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.8	25.2
203	18.0	14.5	21.7



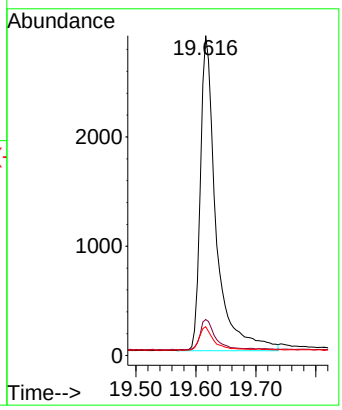


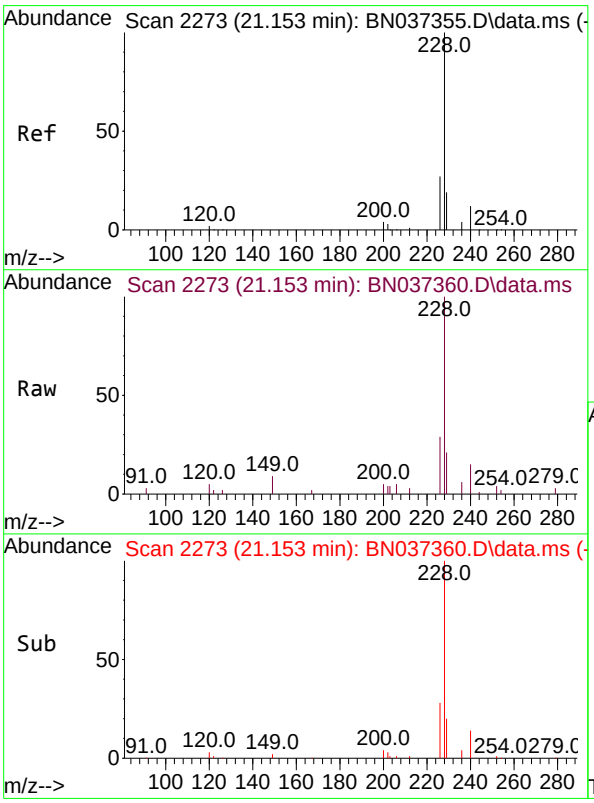
#31
Terphenyl-d14
Concen: 0.416 ng
RT: 19.616 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:244 Resp: 5266

Ion	Ratio	Lower	Upper
244	100		
212	11.3	11.1	16.7
122	9.0	7.2	10.8

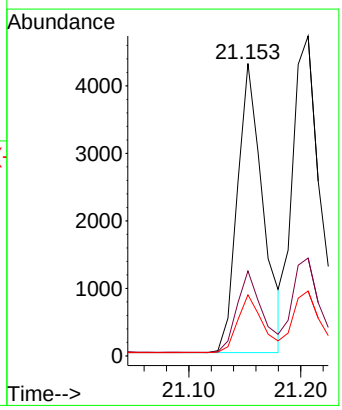


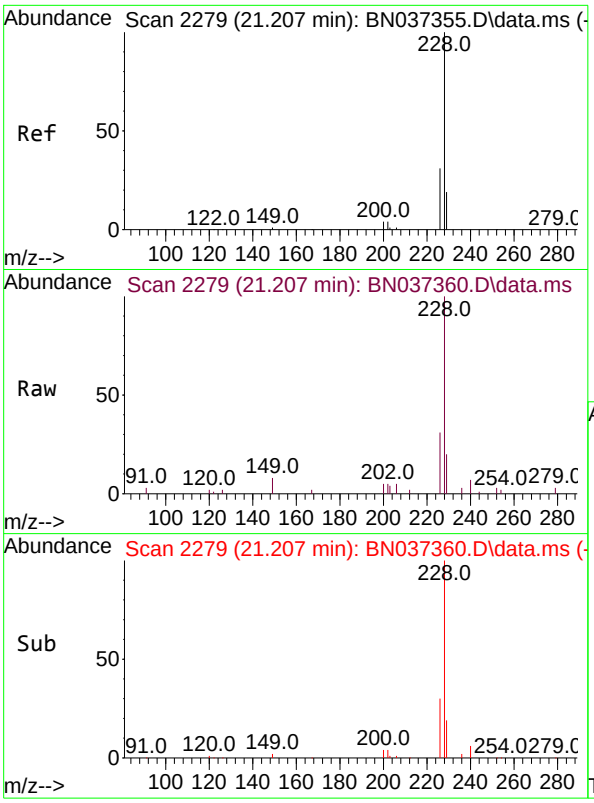


#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:228 Resp: 6805

Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.0	34.4
229	20.9	17.4	26.0



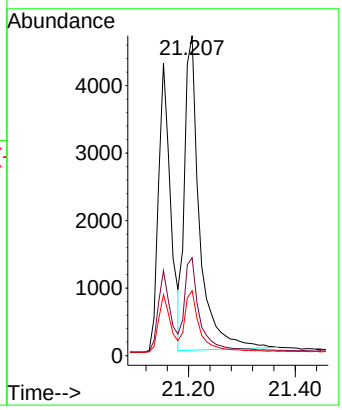


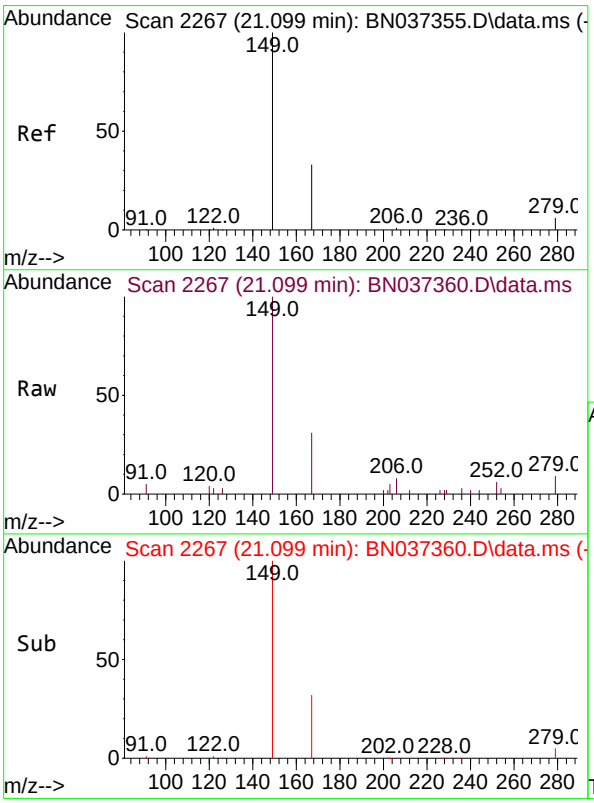
#33
Chrysene
Concen: 0.412 ng
RT: 21.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:228 Resp: 9119

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.4	38.2
229	20.3	17.3	25.9

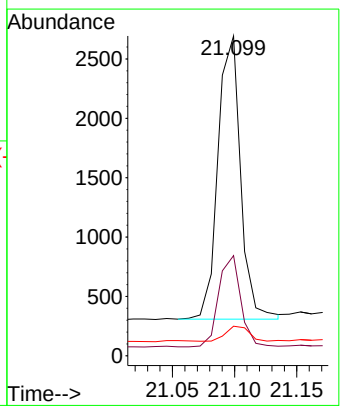


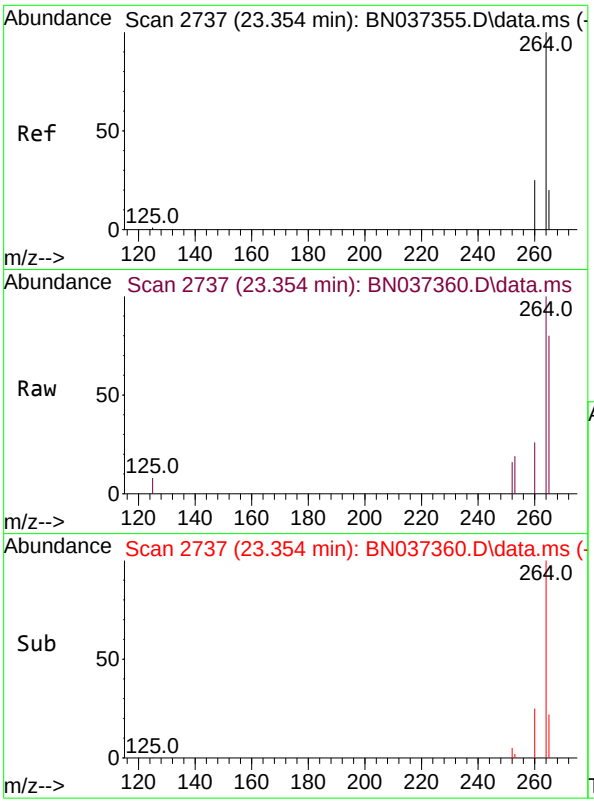


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.403 ng
RT: 21.099 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:149 Resp: 3022

Ion	Ratio	Lower	Upper
149	100		
167	31.4	24.6	37.0
279	5.6	6.5	9.7#



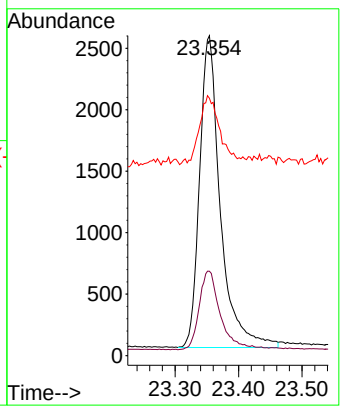


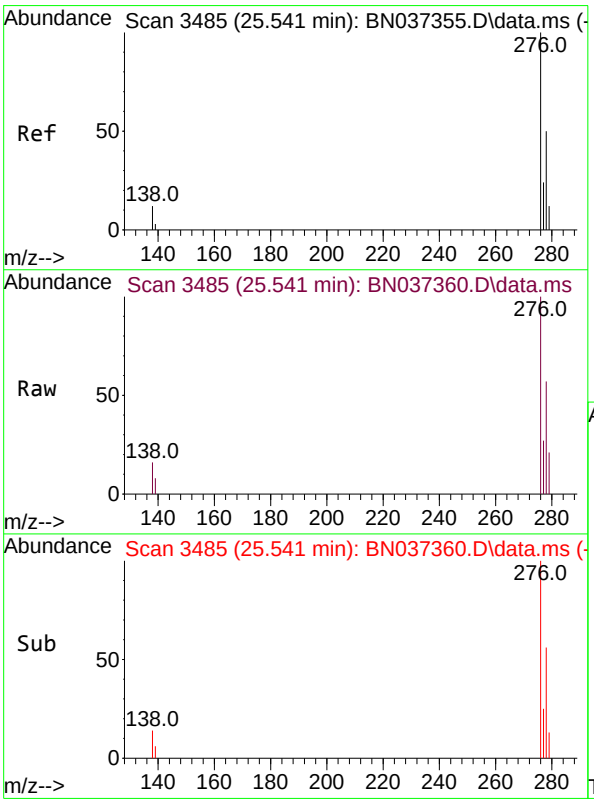
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:264 Resp: 5756

Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.4	32.2
265	80.4	71.4	107.0

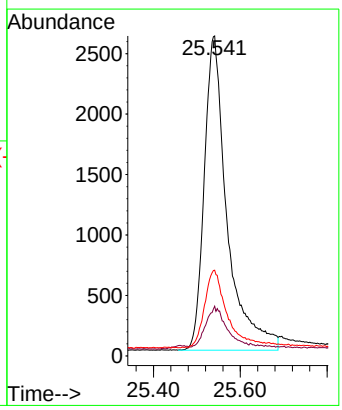


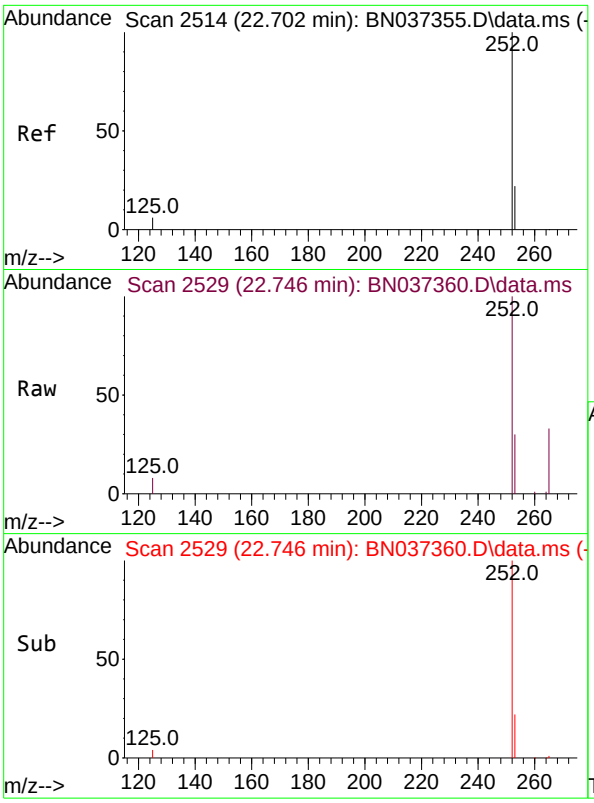


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.368 ng
RT: 25.541 min Scan# 3485
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:276 Resp: 9492

Ion	Ratio	Lower	Upper
276	100		
138	11.7	2.2	3.2#
277	24.2	17.1	25.7



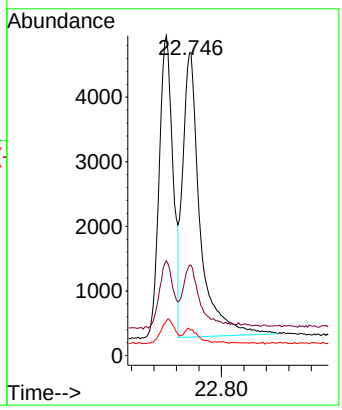


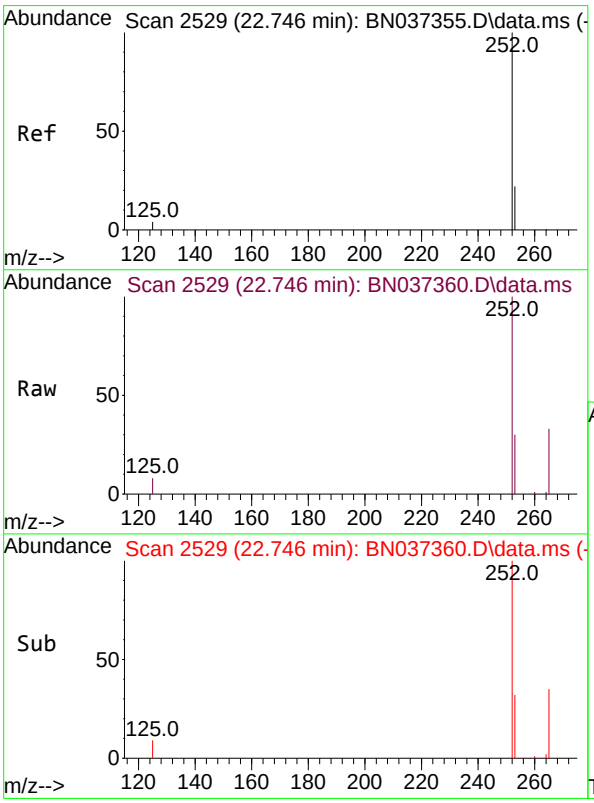
#37
Benzo(b)fluoranthene
Concen: 0.447 ng
RT: 22.746 min Scan# 2
Delta R.T. 0.044 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:252 Resp: 9472

Ion	Ratio	Lower	Upper
252	100		
253	29.9	26.6	40.0
125	8.4	6.1	9.1

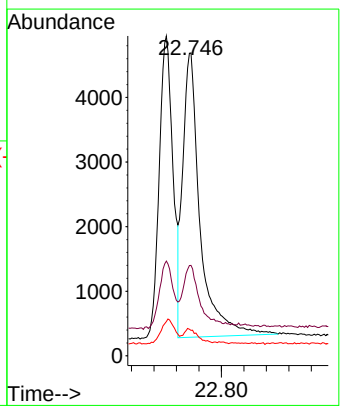


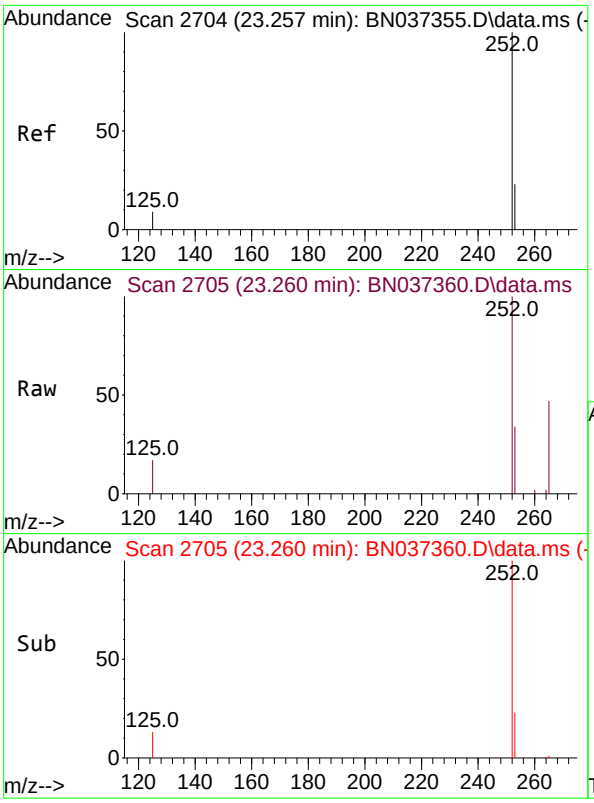


#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:252 Resp: 9472

Ion	Ratio	Lower	Upper
252	100		
253	29.9	26.7	40.1
125	8.4	6.5	9.7



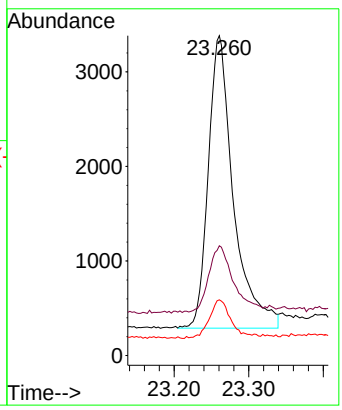


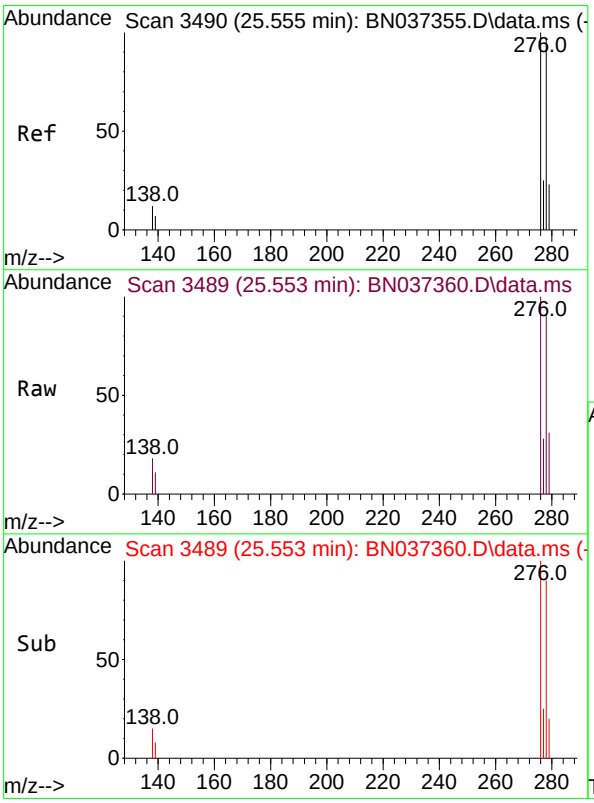
#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 23.260 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:252 Resp: 7258

Ion	Ratio	Lower	Upper
252	100		
253	34.3	31.6	47.4
125	17.4	8.4	12.6#

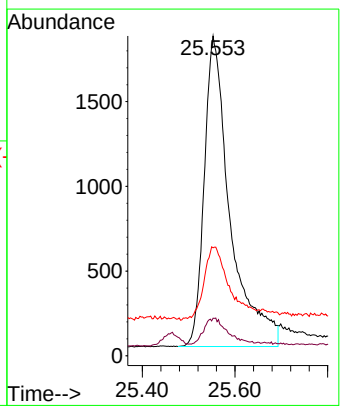


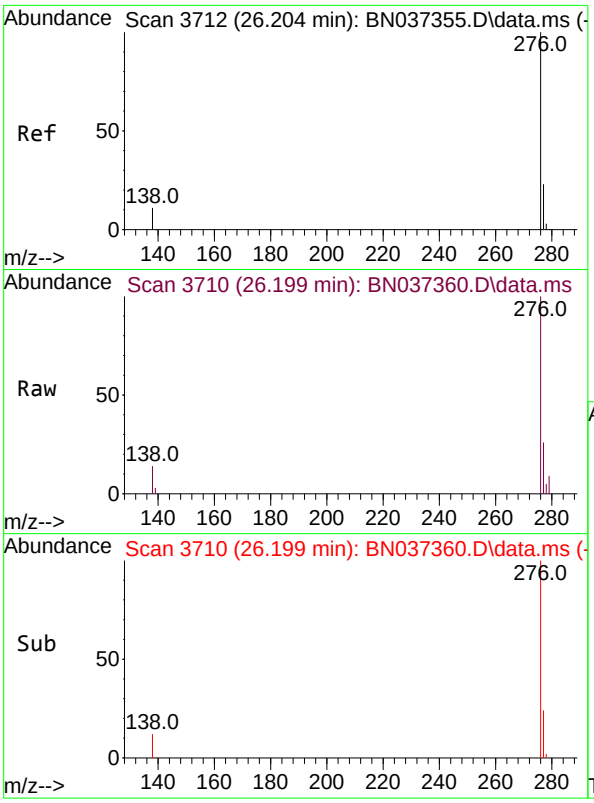


#40
Dibenzo(a,h)anthracene
Concen: 0.367 ng
RT: 25.553 min Scan# 3489
Delta R.T. -0.003 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:278 Resp: 7116

Ion	Ratio	Lower	Upper
278	100		
139	11.8	10.2	15.4
279	33.7	35.6	53.4#



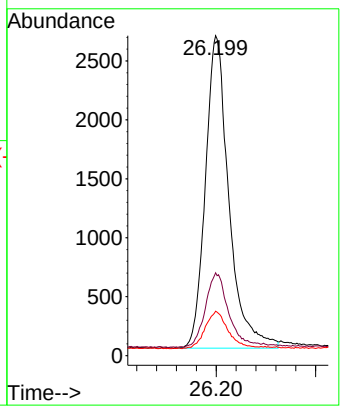


#41
Benzo(g,h,i)perylene
Concen: 0.378 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Tgt Ion:276 Resp: 8707

Ion	Ratio	Lower	Upper
276	100		
277	25.9	22.7	34.1
138	13.9	9.4	14.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037364.D
Acq On : 21 Jun 2025 00:04
Operator : RC/JU
Sample : PB168563BSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Quant Time: Jun 21 00:33:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

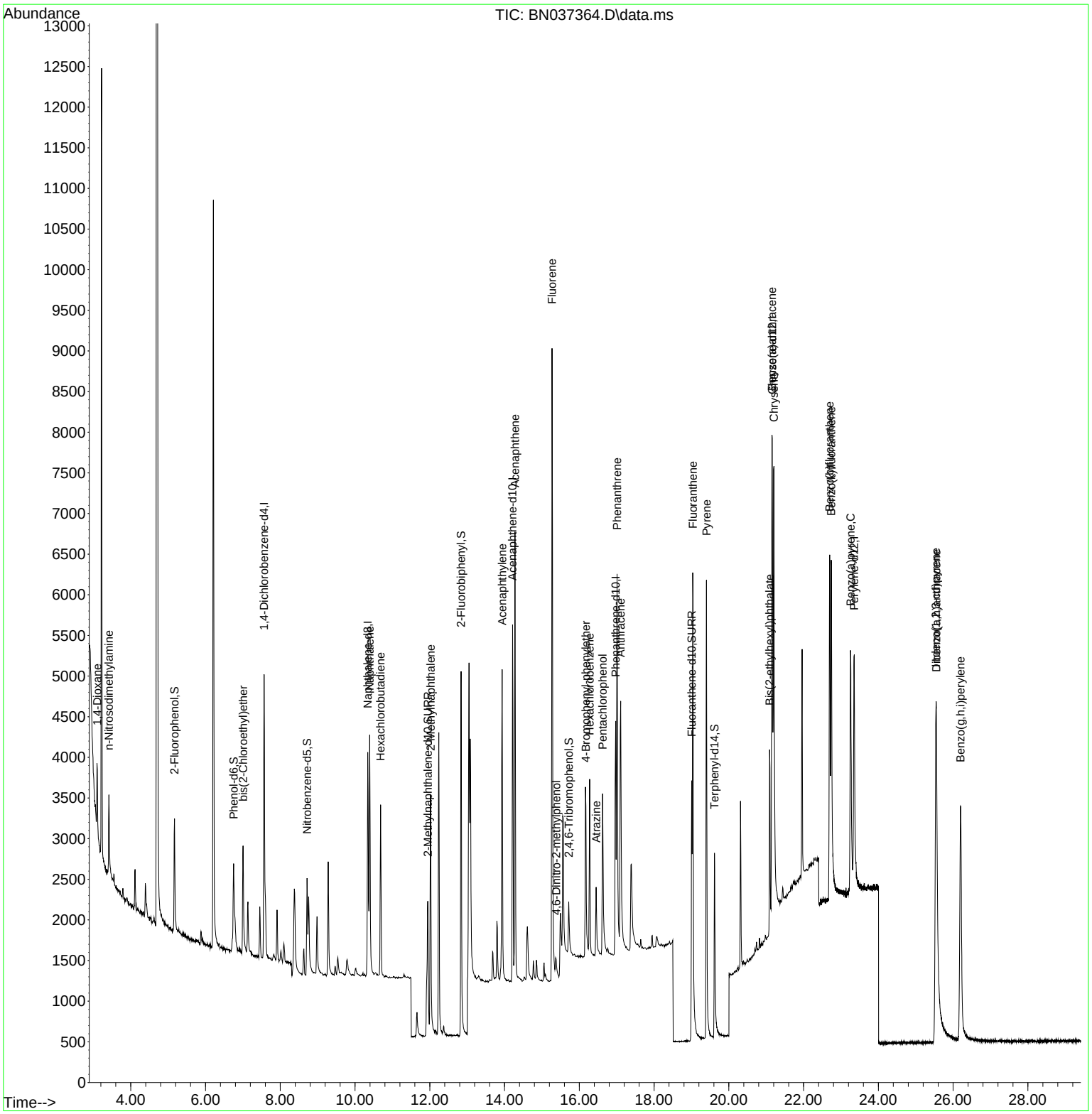
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1885	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4095	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2623	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5035	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	4193	0.400	ng	0.00
35) Perylene-d12	23.354	264	4470	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1274	0.338	ng	0.00
5) Phenol-d6	6.752	99	1342	0.346	ng	0.00
8) Nitrobenzene-d5	8.717	82	1284	0.388	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	3901	0.588	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	522	0.339	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4574	0.397	ng	0.00
27) Fluoranthene-d10	19.007	212	5003	0.346	ng	0.00
31) Terphenyl-d14	19.616	244	3587	0.375	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	583	0.304	ng	# 36
3) n-Nitrosodimethylamine	3.415	42	653	0.372	ng	# 70
6) bis(2-Chloroethyl)ether	7.004	93	1260	0.366	ng	99
9) Naphthalene	10.394	128	4026	0.372	ng	# 89
10) Hexachlorobutadiene	10.682	225	1748	0.410	ng	# 100
12) 2-Methylnaphthalene	12.021	142	2474	0.328	ng	93
16) Acenaphthylene	13.935	152	4445	0.403	ng	98
17) Acenaphthene	14.277	154	2642	0.364	ng	98
18) Fluorene	15.271	166	3709	0.364	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	419	0.346	ng	# 81
21) 4-Bromophenyl-phenylether	16.177	248	1344	0.375	ng	96
22) Hexachlorobenzene	16.276	284	1596	0.409	ng	99
23) Atrazine	16.450	200	1011	0.354	ng	# 88
24) Pentachlorophenol	16.624	266	1337	0.688	ng	97
25) Phenanthrene	17.009	178	5370	0.368	ng	99
26) Anthracene	17.108	178	4862	0.362	ng	99
28) Fluoranthene	19.035	202	6244	0.339	ng	# 99
30) Pyrene	19.402	202	6351	0.373	ng	99
32) Benzo(a)anthracene	21.153	228	5141	0.373	ng	99
33) Chrysene	21.206	228	6472	0.387	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	2023	0.358	ng	96
36) Indeno(1,2,3-cd)pyrene	25.538	276	7744	0.386	ng	# 92
37) Benzo(b)fluoranthene	22.696	252	5838	0.355	ng	95
38) Benzo(k)fluoranthene	22.740	252	6945	0.389	ng	96
39) Benzo(a)pyrene	23.254	252	5888	0.399	ng	95
40) Dibenzo(a,h)anthracene	25.552	278	5912	0.392	ng	89
41) Benzo(g,h,i)perylene	26.199	276	7039	0.393	ng	96

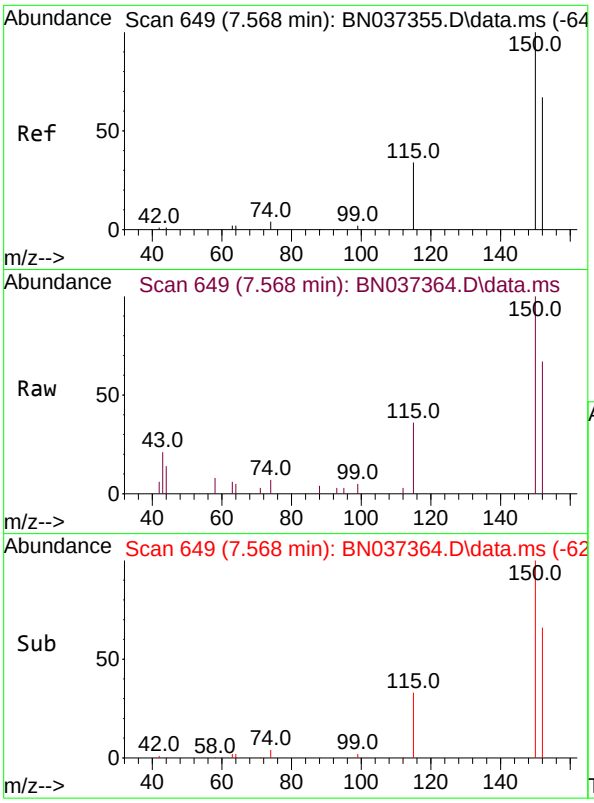
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037364.D
Acq On : 21 Jun 2025 00:04
Operator : RC/JU
Sample : PB168563BSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Quant Time: Jun 21 00:33:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



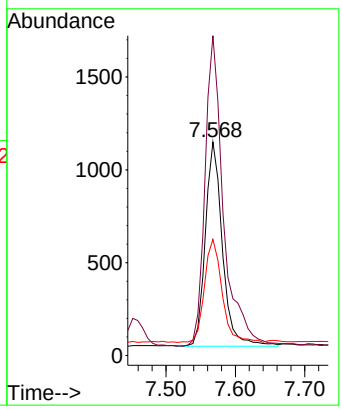


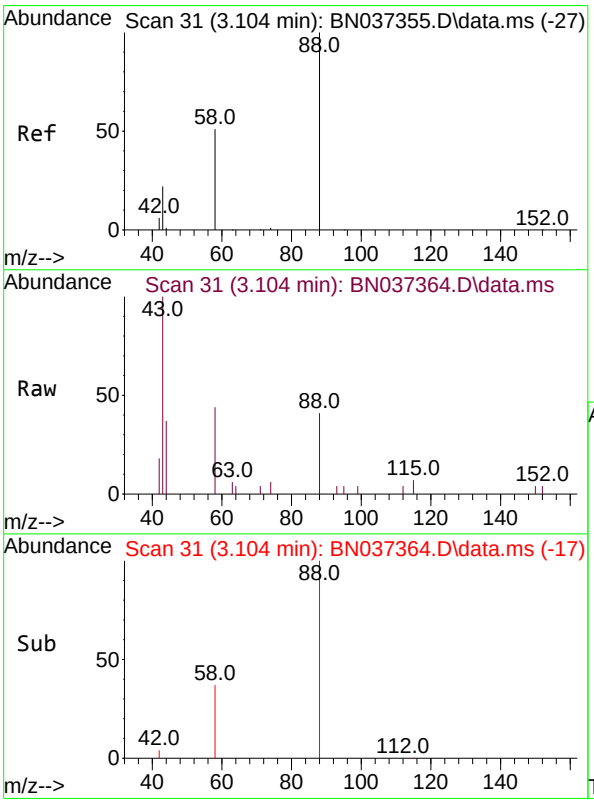
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:152 Resp: 1885

Ion	Ratio	Lower	Upper
152	100		
150	149.8	112.7	169.1
115	54.4	45.9	68.9

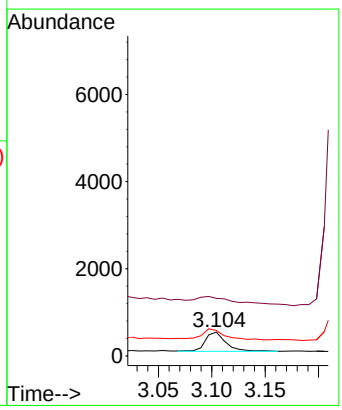


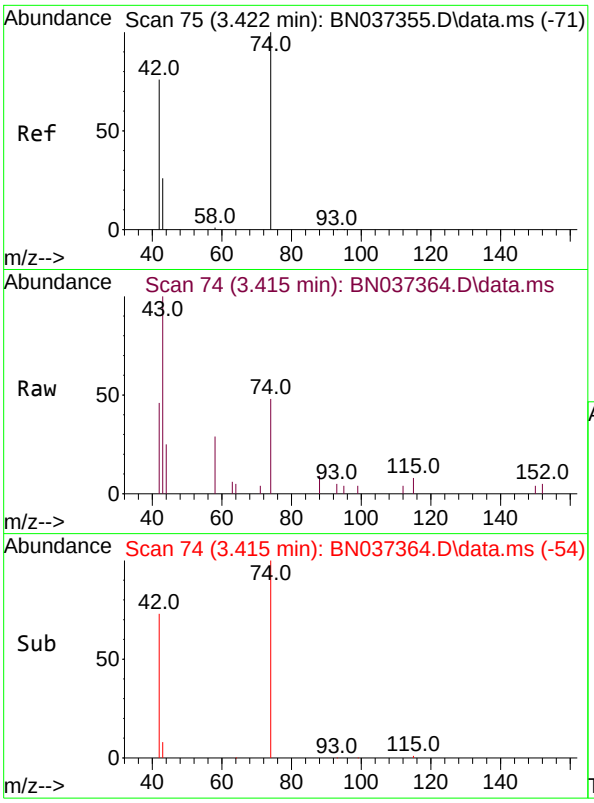


#2
1,4-Dioxane
Concen: 0.304 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 88 Resp: 583

Ion	Ratio	Lower	Upper
88	100		
43	101.0	21.0	31.6#
58	59.7	38.0	57.0#



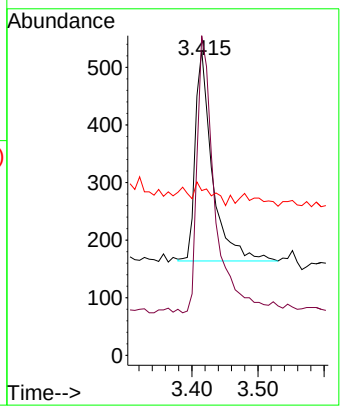


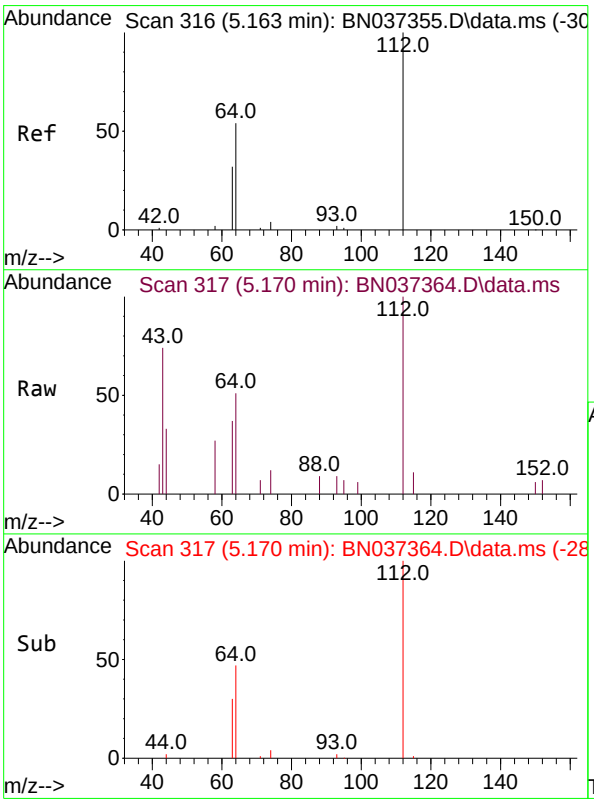
#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion: 42 Resp: 653

Ion	Ratio	Lower	Upper
42	100		
74	137.4	84.3	126.5#
44	10.1	5.0	7.4#

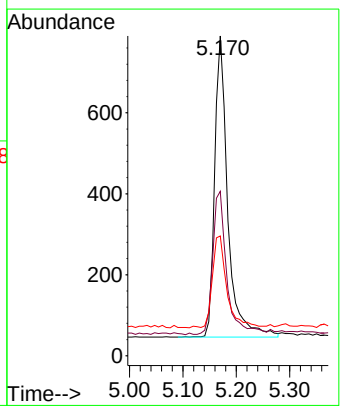


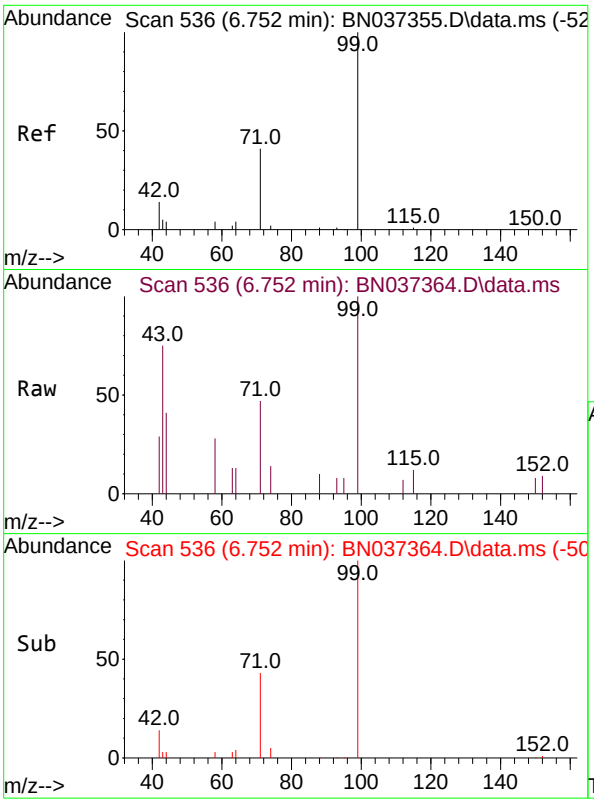


#4
2-Fluorophenol
Concen: 0.338 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:112 Resp: 1274

Ion	Ratio	Lower	Upper
112	100		
64	50.5	38.7	58.1
63	33.0	26.4	39.6



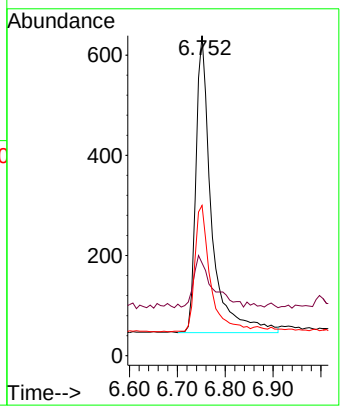


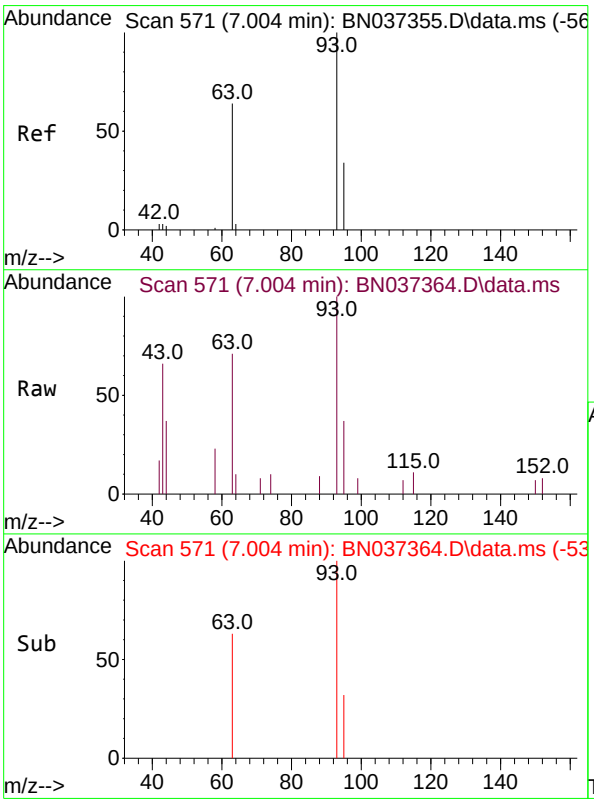
#5
Phenol-d6
Concen: 0.346 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion: 99 Resp: 1342

Ion	Ratio	Lower	Upper
99	100		
42	21.1	19.8	29.8
71	42.0	42.6	64.0#

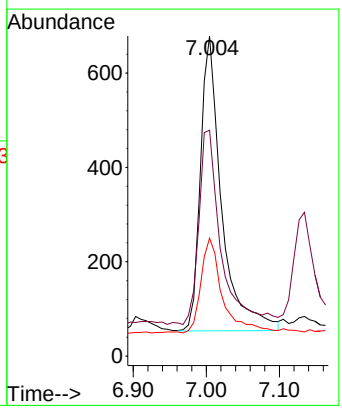


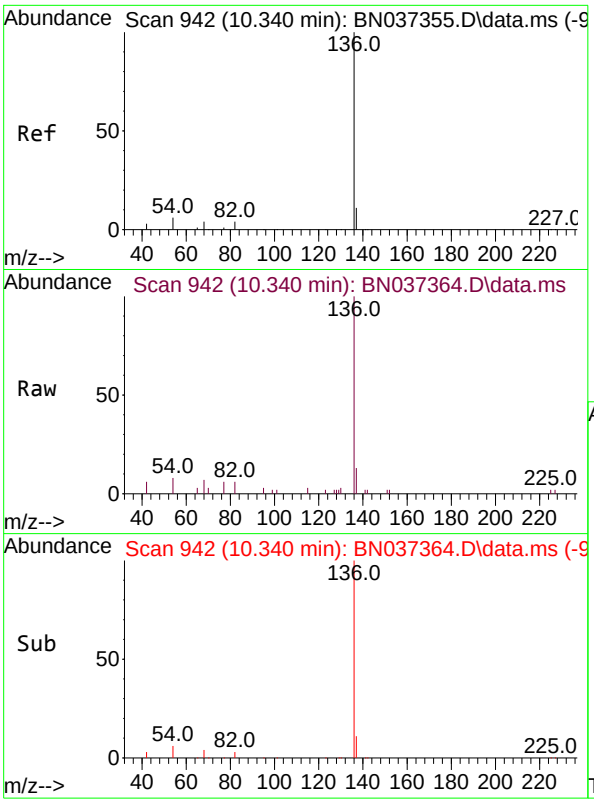


#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 93 Resp: 1260

Ion	Ratio	Lower	Upper
93	100		
63	66.8	53.2	79.8
95	32.7	27.3	40.9



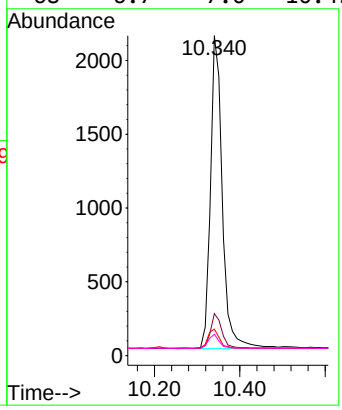


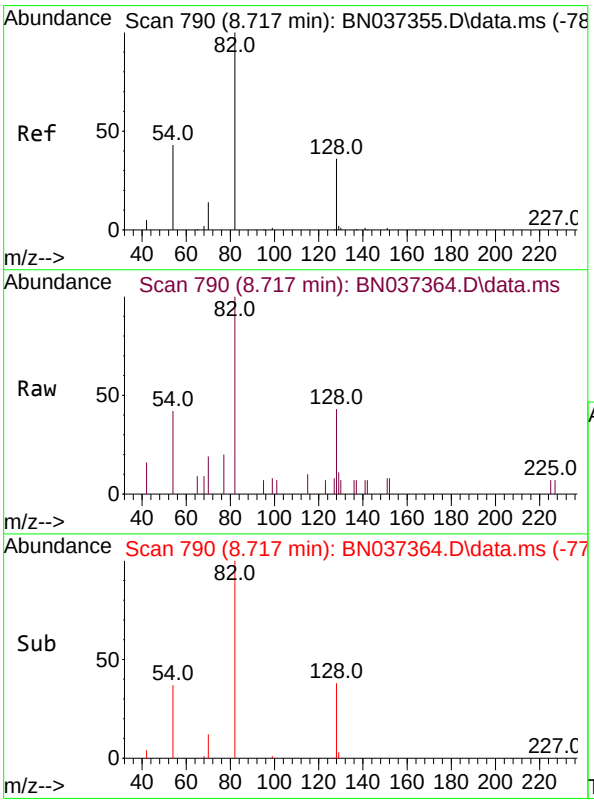
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:136 Resp: 4095

Ion	Ratio	Lower	Upper
136	100		
137	13.1	12.2	18.2
54	8.3	8.8	13.2#
68	6.7	7.0	10.4#

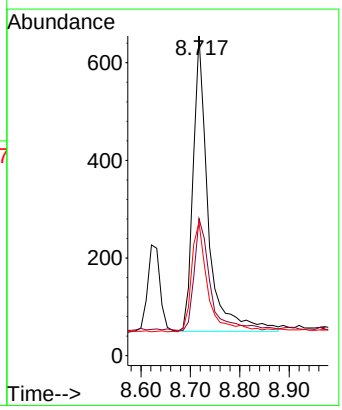


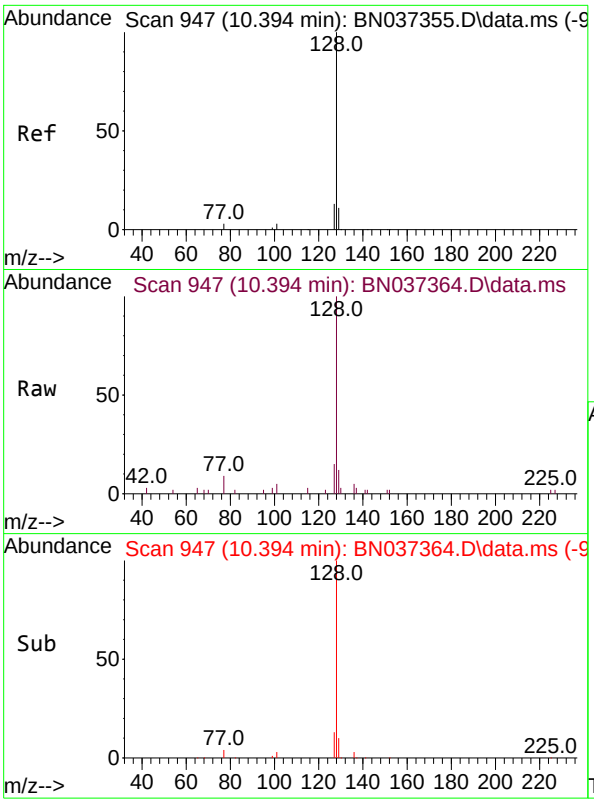


#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 82 Resp: 1284

Ion	Ratio	Lower	Upper
82	100		
128	42.9	42.5	63.7
54	41.7	43.2	64.8#



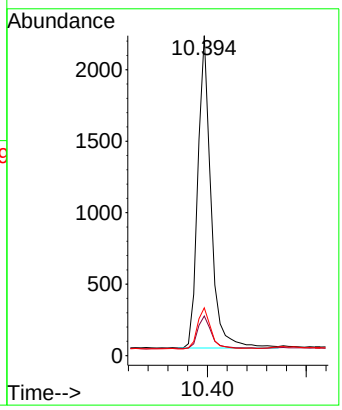


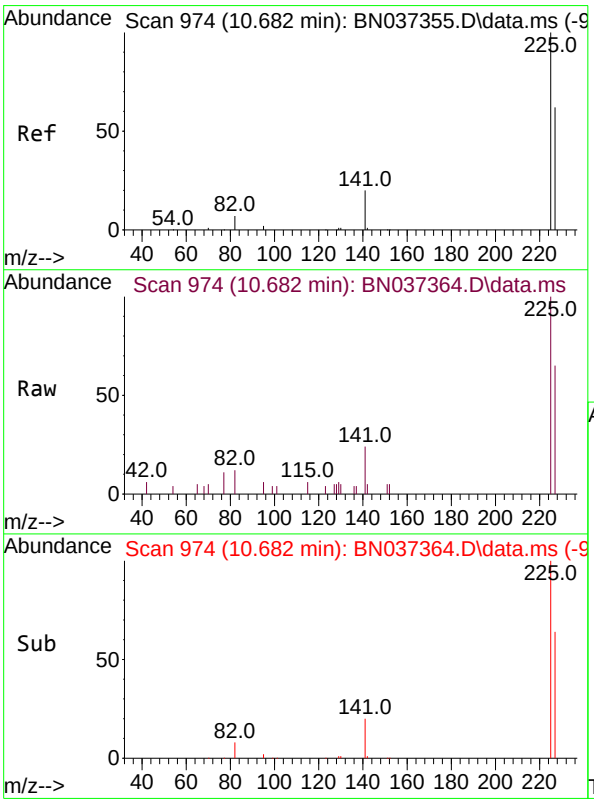
#9
Naphthalene
Concen: 0.372 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:128 Resp: 4026

Ion	Ratio	Lower	Upper
128	100		
129	12.4	14.0	21.0#
127	14.9	15.8	23.8#

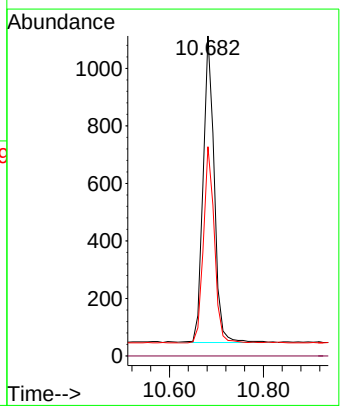


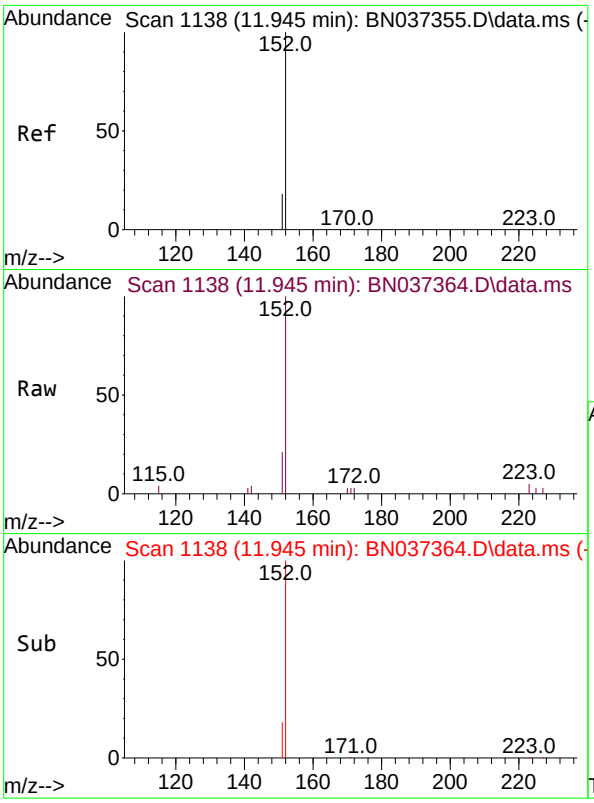


#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:225 Resp: 1748

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	50.3	75.5



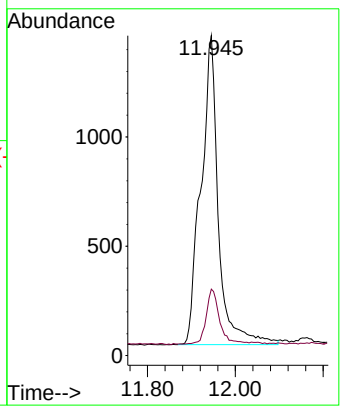


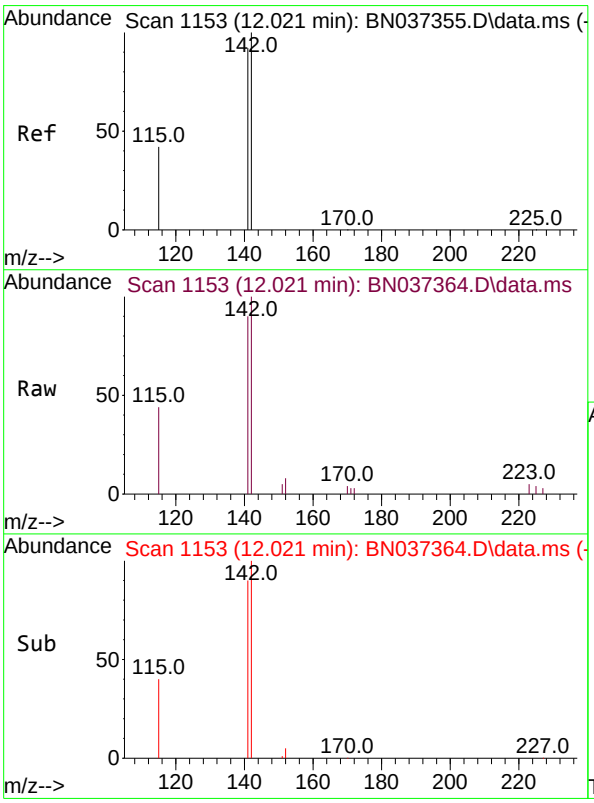
#11
2-Methylnaphthalene-d10
Concen: 0.588 ng
RT: 11.945 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:152 Resp: 3901

Ion	Ratio	Lower	Upper
152	100		
151	13.8	17.4	26.0#

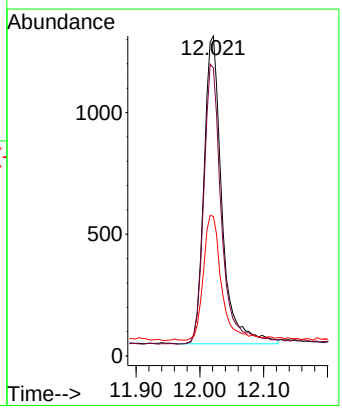


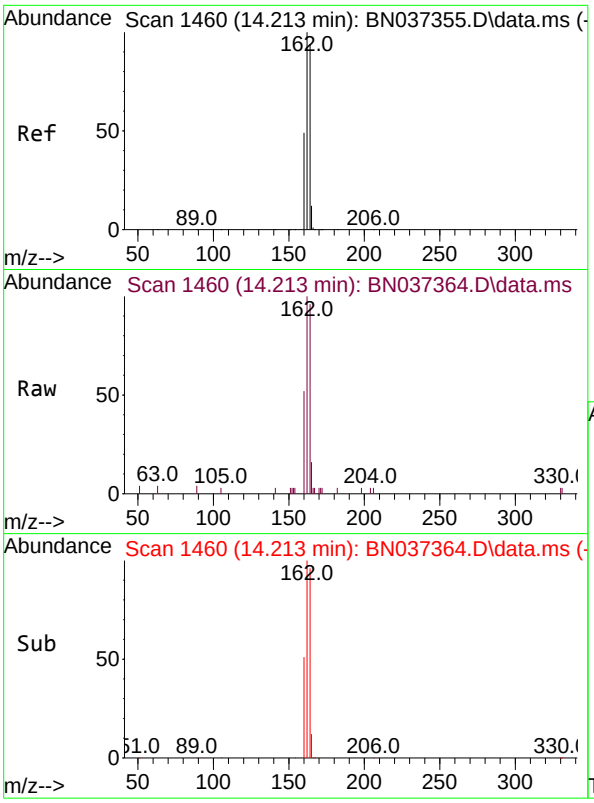


#12
2-Methylnaphthalene
Concen: 0.328 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:142 Resp: 2474

Ion	Ratio	Lower	Upper
142	100		
141	90.0	70.2	105.2
115	43.6	43.0	64.4



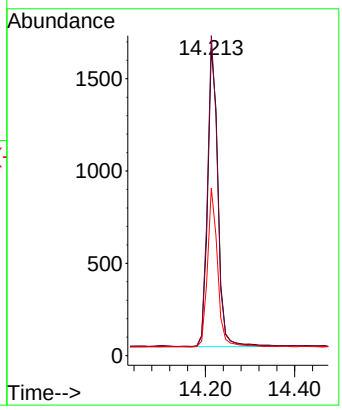


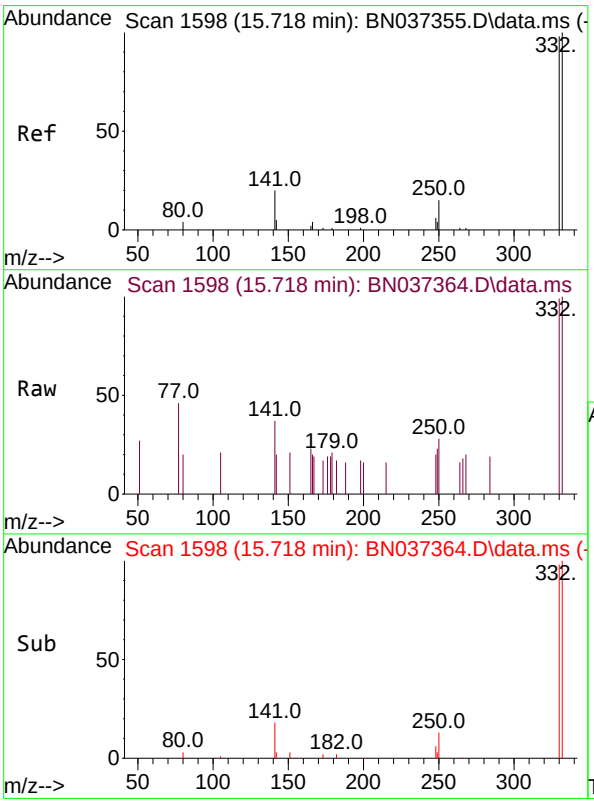
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:164 Resp: 2623

Ion	Ratio	Lower	Upper
164	100		
162	104.1	81.5	122.3
160	54.5	43.0	64.4

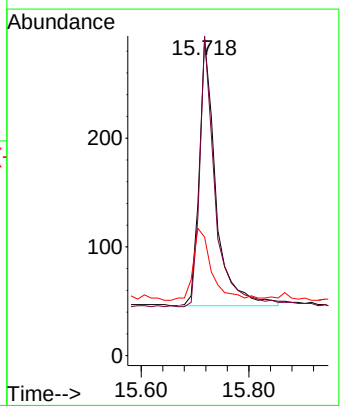


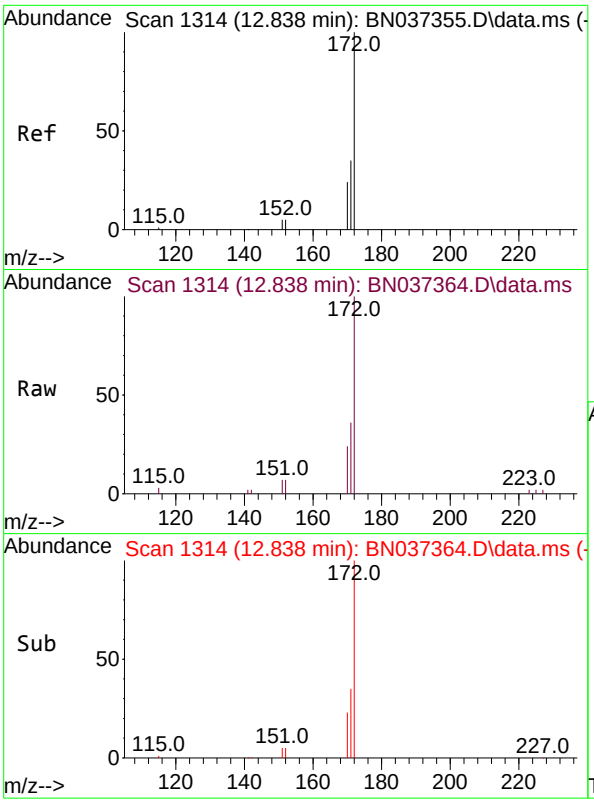


#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:330 Resp: 522

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.4	117.6
141	30.7	24.4	36.6



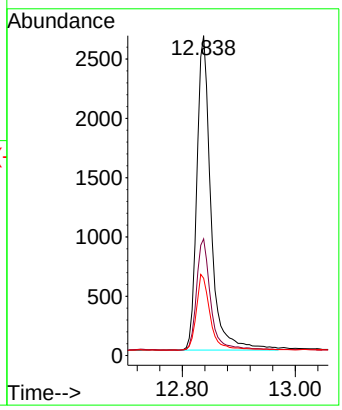


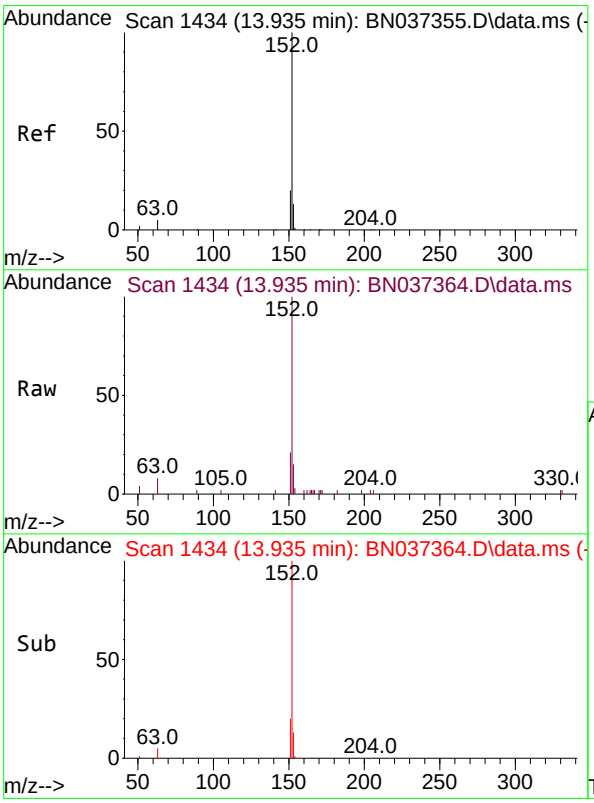
#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.838 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:172 Resp: 4574

Ion	Ratio	Lower	Upper
172	100		
171	36.5	30.8	46.2
170	24.2	21.9	32.9

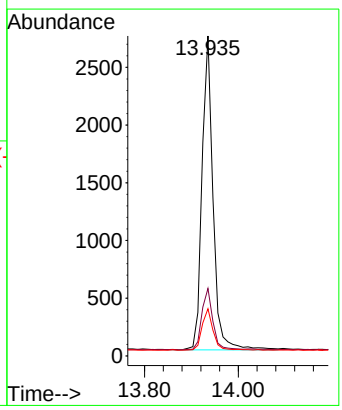


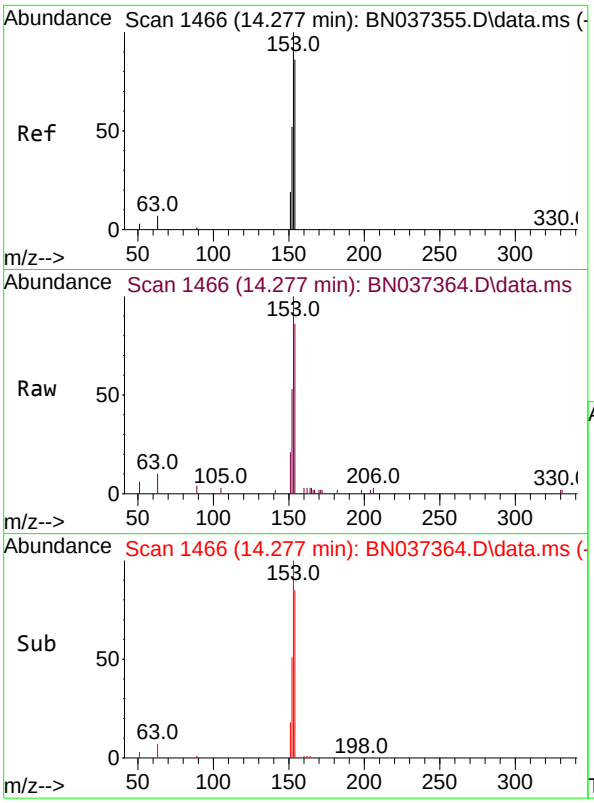


#16
Acenaphthylene
Concen: 0.403 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:152 Resp: 4445

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.6	24.8
153	13.3	10.2	15.2



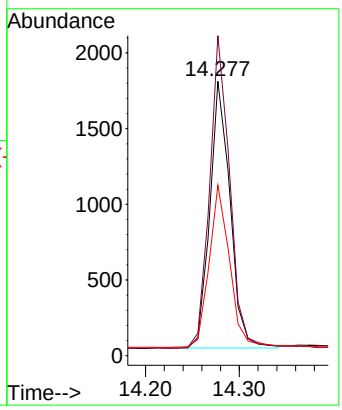


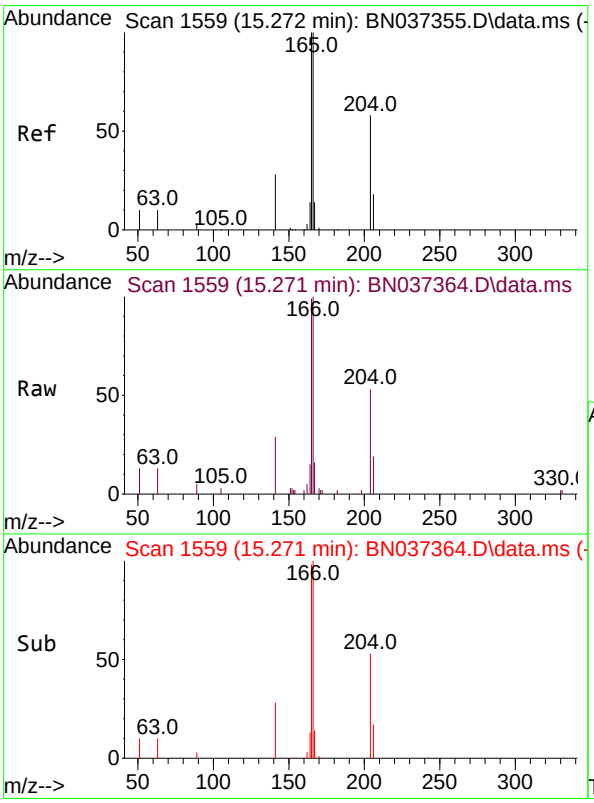
#17
Acenaphthene
Concen: 0.364 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:154 Resp: 2642

Ion	Ratio	Lower	Upper
154	100		
153	118.2	93.1	139.7
152	62.7	48.6	73.0

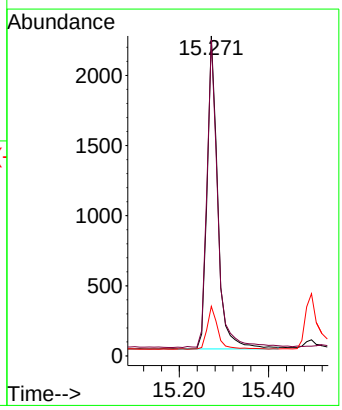


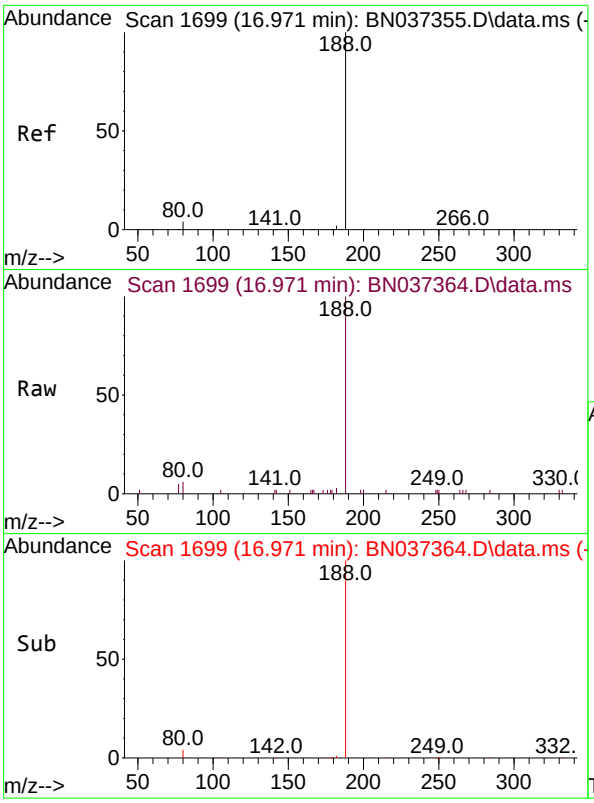


#18
Fluorene
Concen: 0.364 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:166 Resp: 3709

Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.5	119.3
167	13.8	10.7	16.1



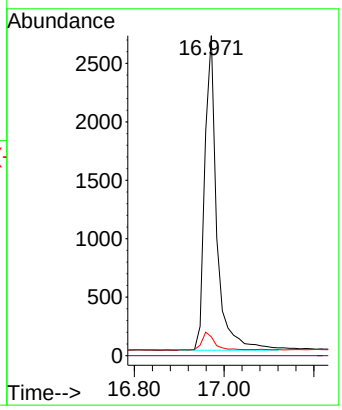


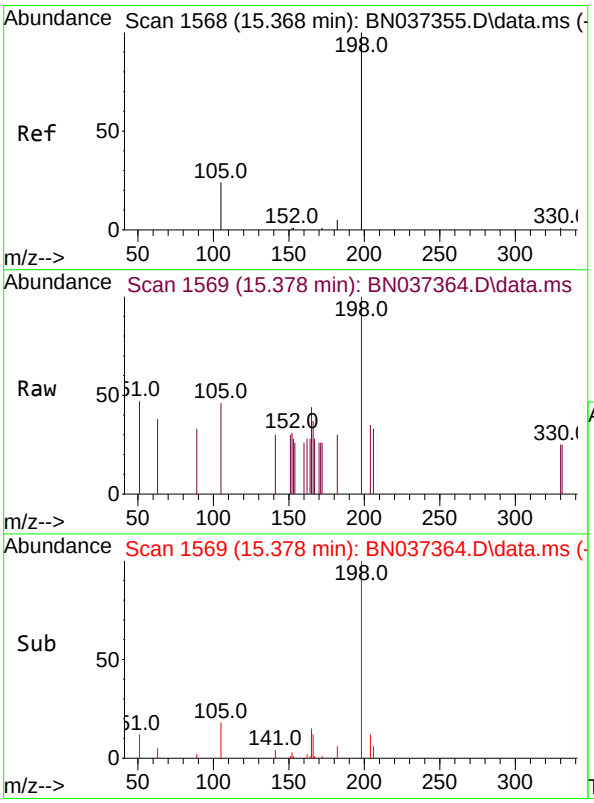
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:188 Resp: 5035

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.9	6.2	9.2#

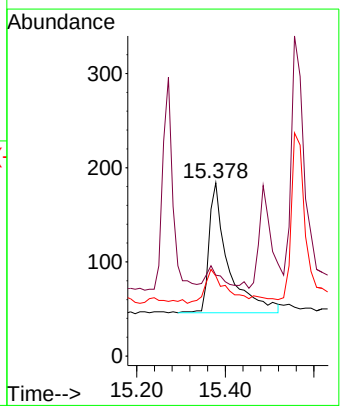


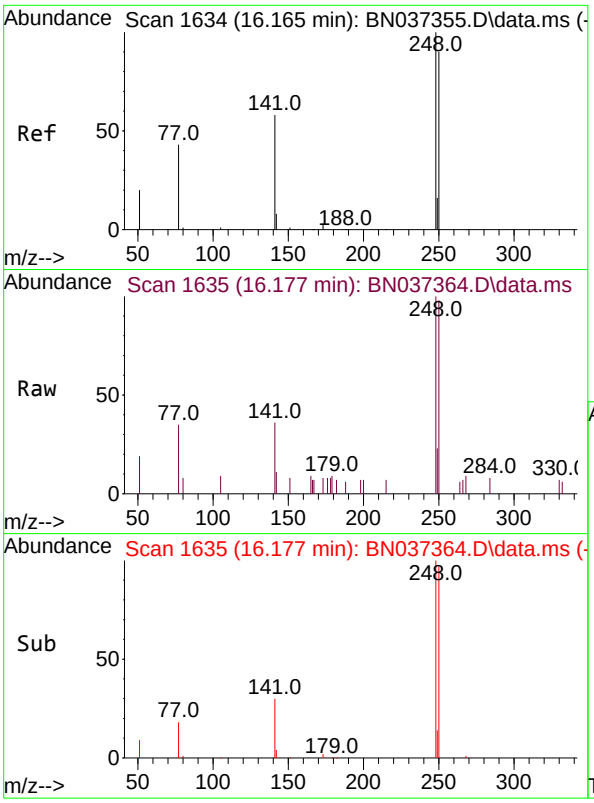


#20
4,6-Dinitro-2-methylphenol
Concen: 0.346 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:198 Resp: 419

Ion	Ratio	Lower	Upper
198	100		
51	46.7	51.4	77.0#
105	46.2	45.5	68.3



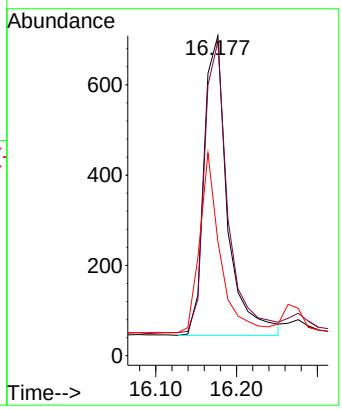


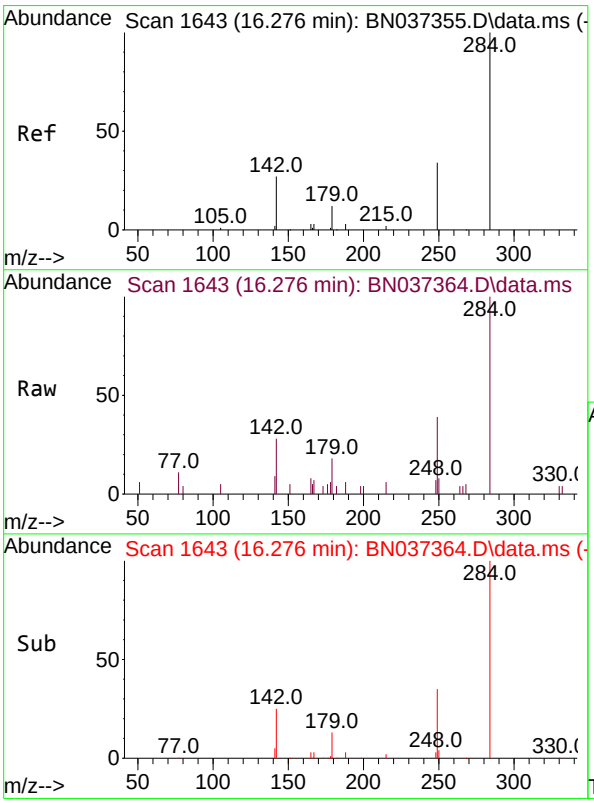
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:248 Resp: 1344

Ion	Ratio	Lower	Upper
248	100		
250	98.2	80.4	120.6
141	35.7	33.3	49.9

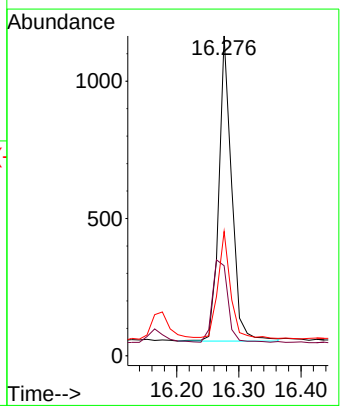


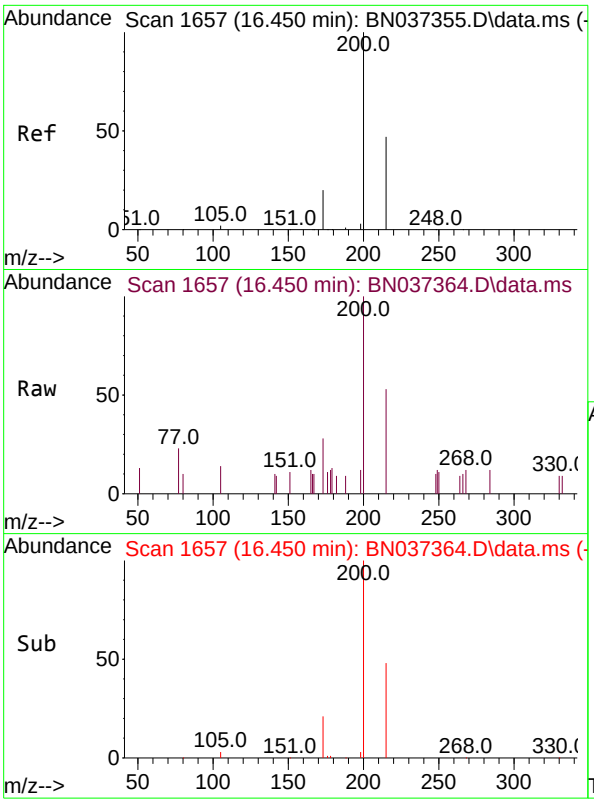


#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:284 Resp: 1596

Ion	Ratio	Lower	Upper
284	100		
142	33.3	27.0	40.6
249	35.8	28.8	43.2



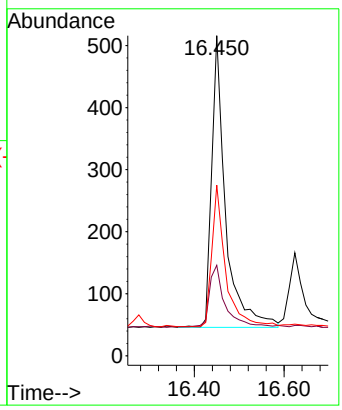


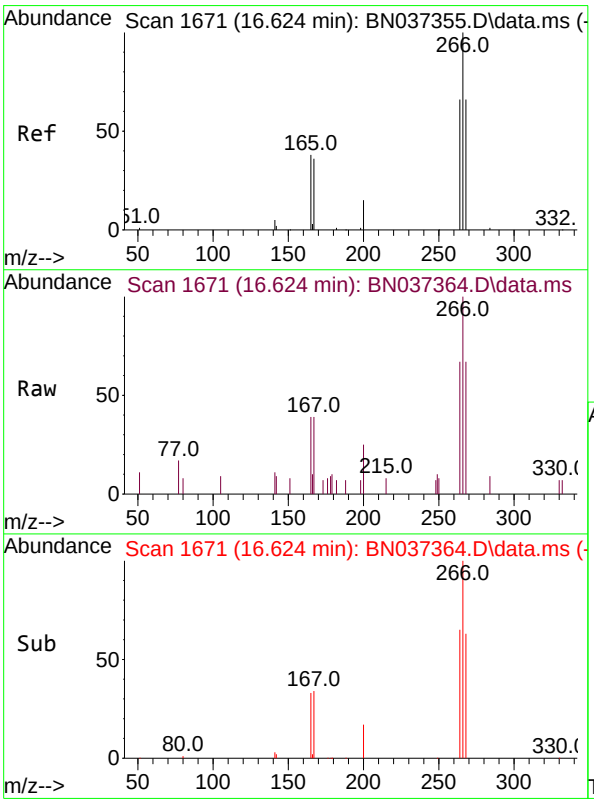
#23
Atrazine
Concen: 0.354 ng
RT: 16.450 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:200 Resp: 1011

Ion	Ratio	Lower	Upper
200	100		
173	28.3	29.2	43.8#
215	53.3	48.8	73.2

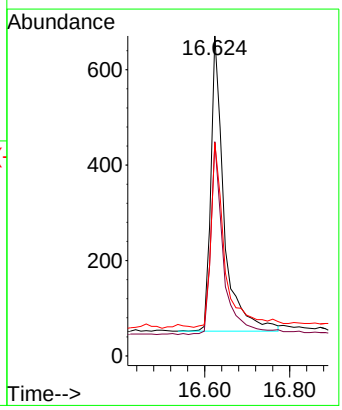


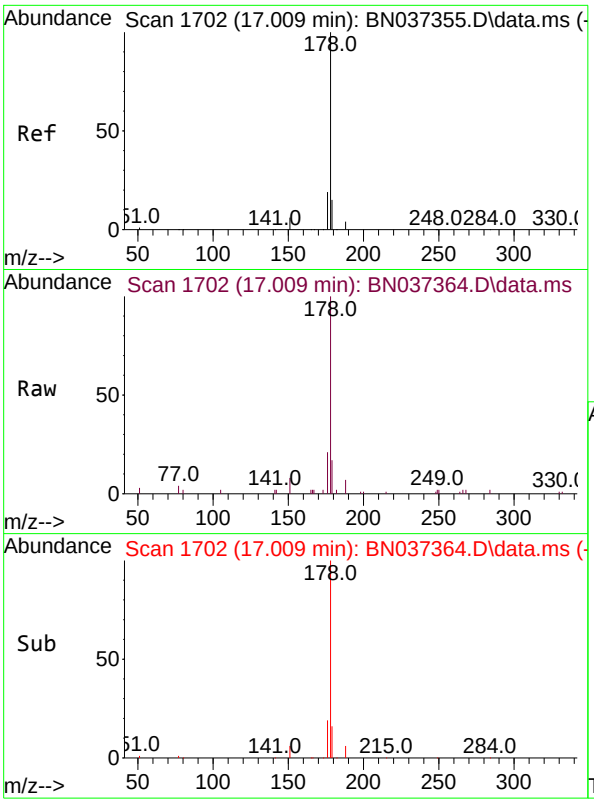


#24
Pentachlorophenol
Concen: 0.688 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:266 Resp: 1337

Ion	Ratio	Lower	Upper
266	100		
264	62.5	50.3	75.5
268	65.4	55.3	82.9



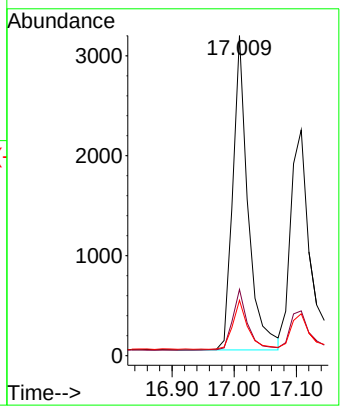


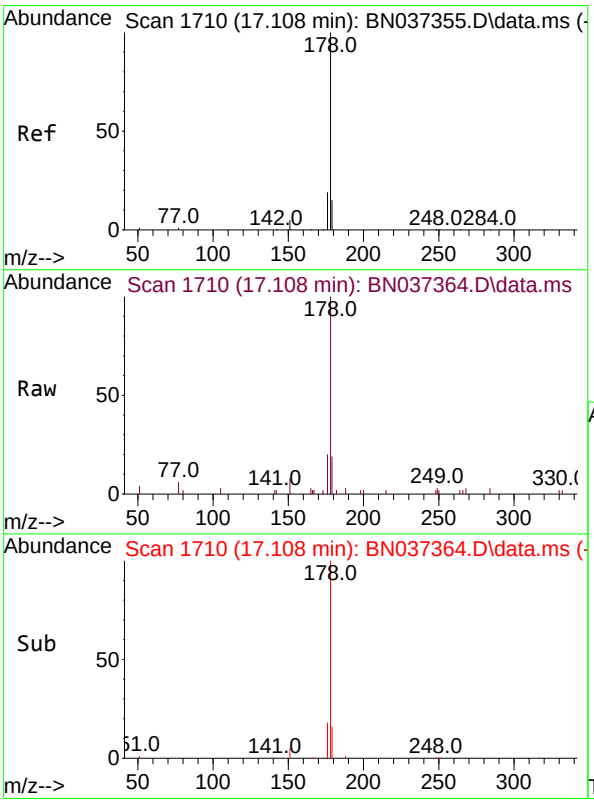
#25
Phenanthrene
Concen: 0.368 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:178 Resp: 5370

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.8	12.9	19.3

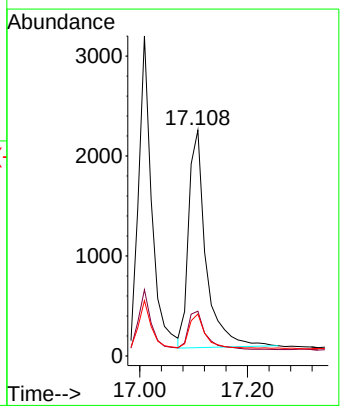


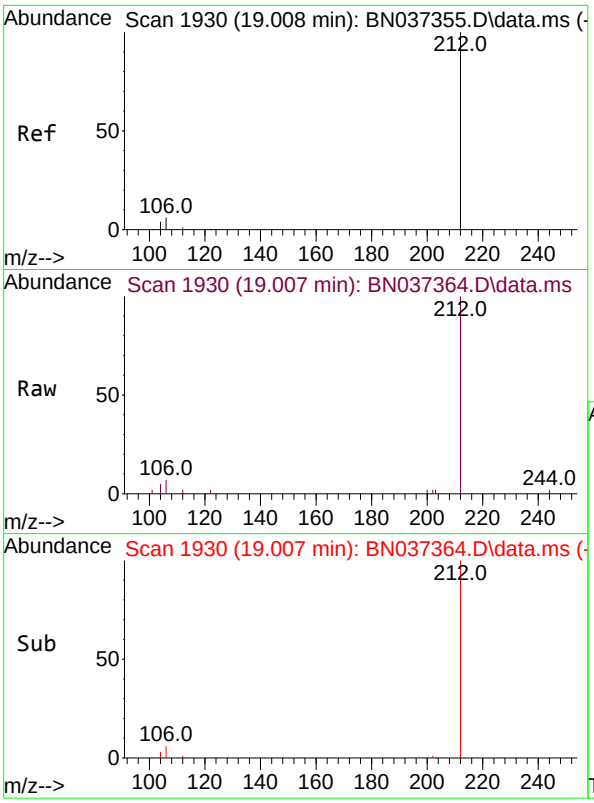


#26
Anthracene
Concen: 0.362 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:178 Resp: 4862

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.5	13.0	19.6



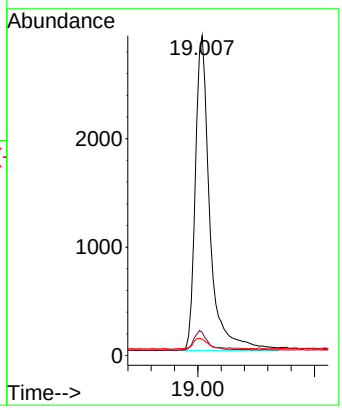


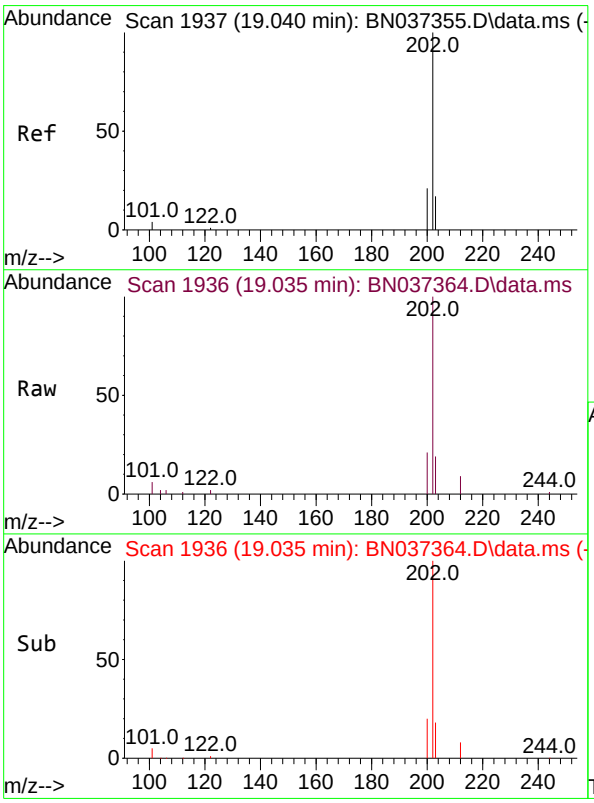
#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.007 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:212 Resp: 5003

Ion	Ratio	Lower	Upper
212	100		
106	6.2	3.0	4.4#
104	3.7	2.0	3.0#

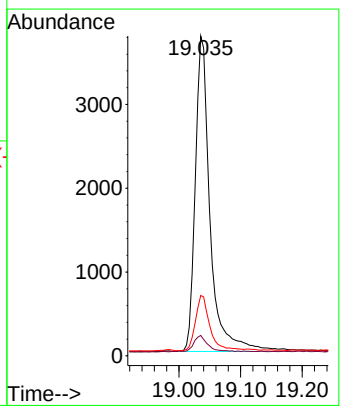


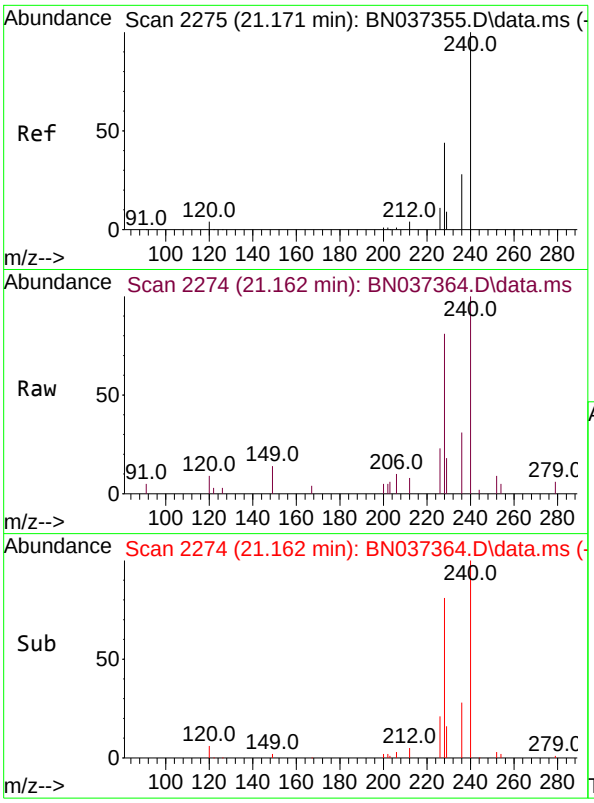


#28
Fluoranthene
Concen: 0.339 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:202 Resp: 6244

Ion	Ratio	Lower	Upper
202	100		
101	4.9	3.0	4.6#
203	16.9	13.7	20.5



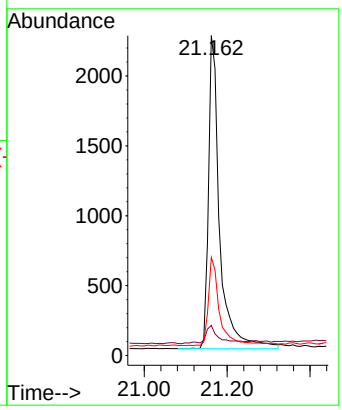


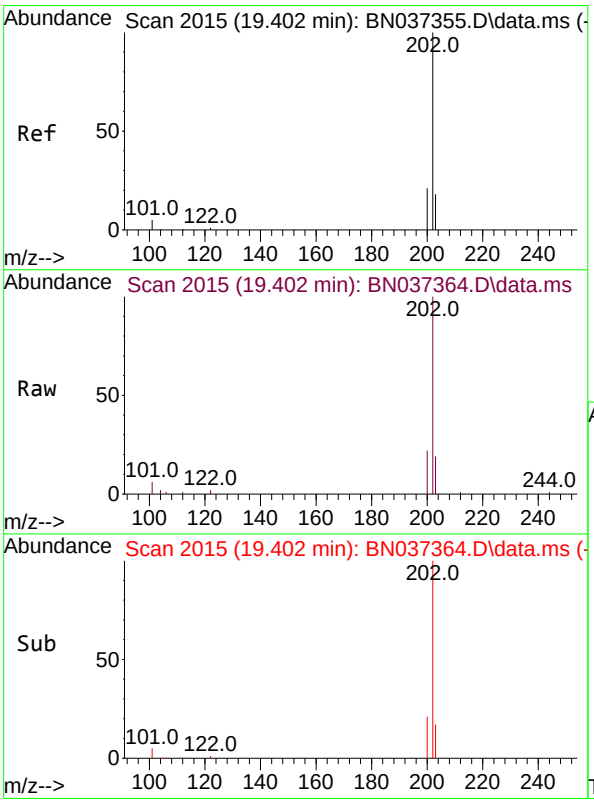
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:240 Resp: 4193

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.5	11.3
236	30.7	24.9	37.3

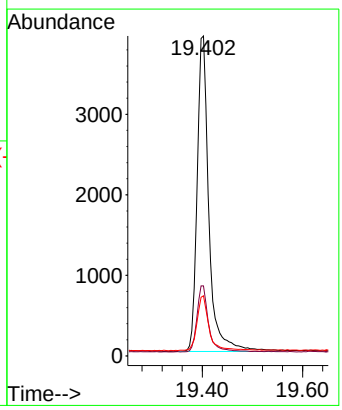


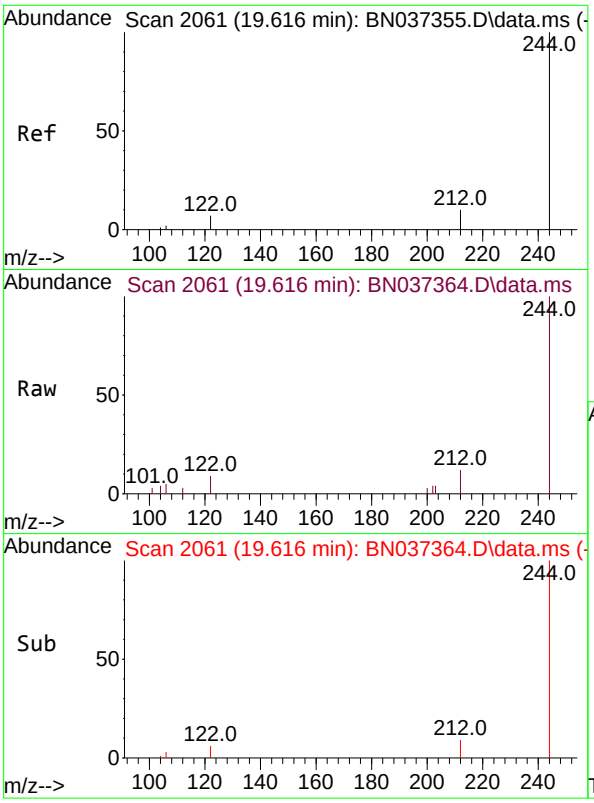


#30
Pyrene
Concen: 0.373 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:202 Resp: 6351

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.8	25.2
203	18.4	14.5	21.7



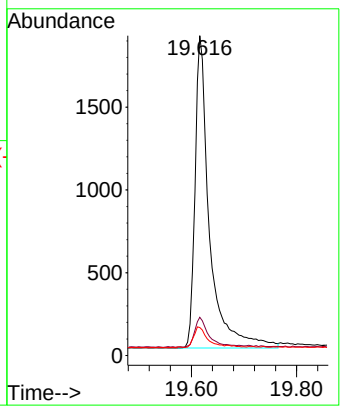


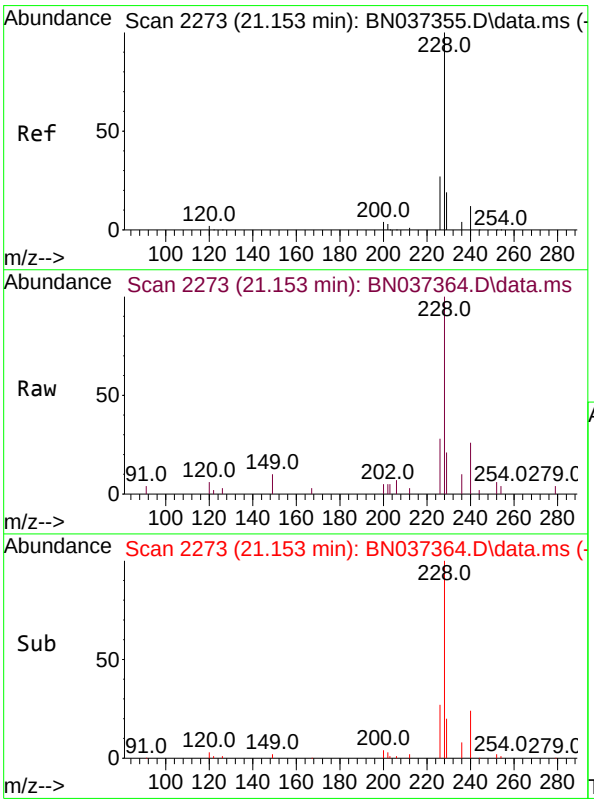
#31
Terphenyl-d14
Concen: 0.375 ng
RT: 19.616 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:244 Resp: 3587

Ion	Ratio	Lower	Upper
244	100		
212	12.0	11.1	16.7
122	8.8	7.2	10.8

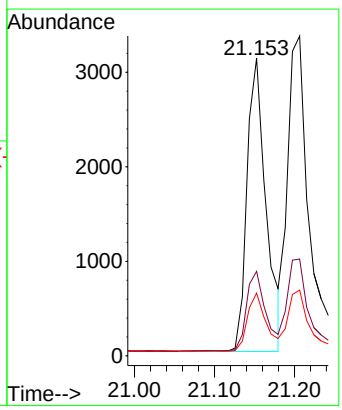


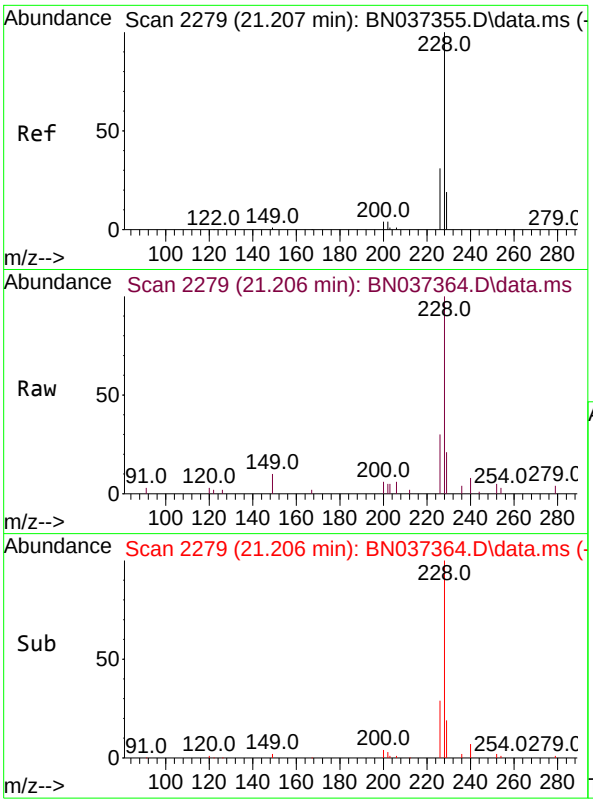


#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:228 Resp: 5141

Ion	Ratio	Lower	Upper
228	100		
226	28.4	23.0	34.4
229	21.1	17.4	26.0



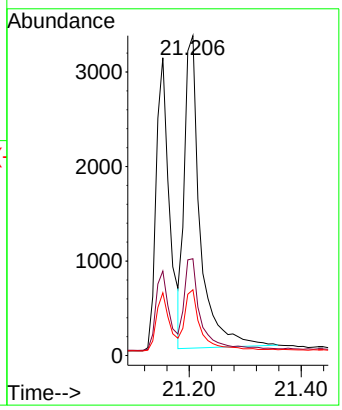


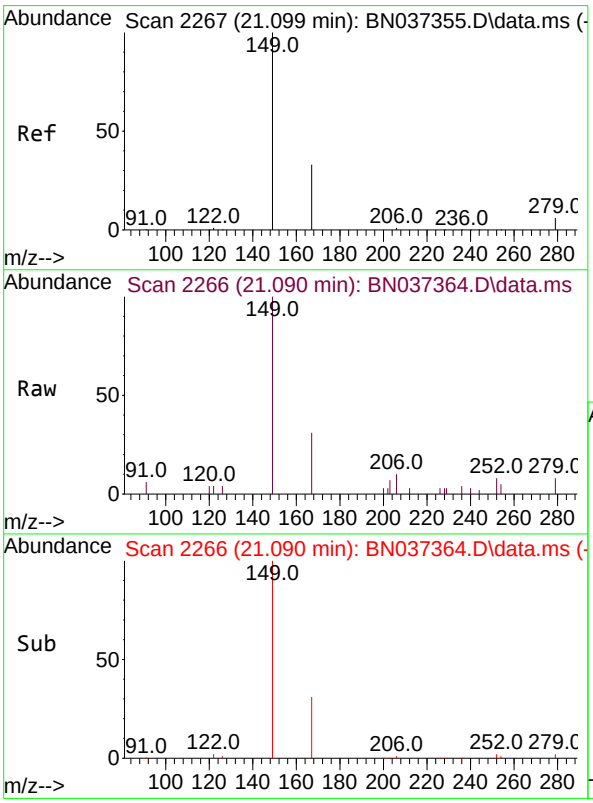
#33
Chrysene
Concen: 0.387 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:228 Resp: 6472

Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.4	38.2
229	20.6	17.3	25.9

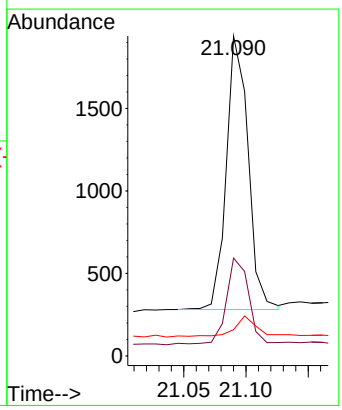


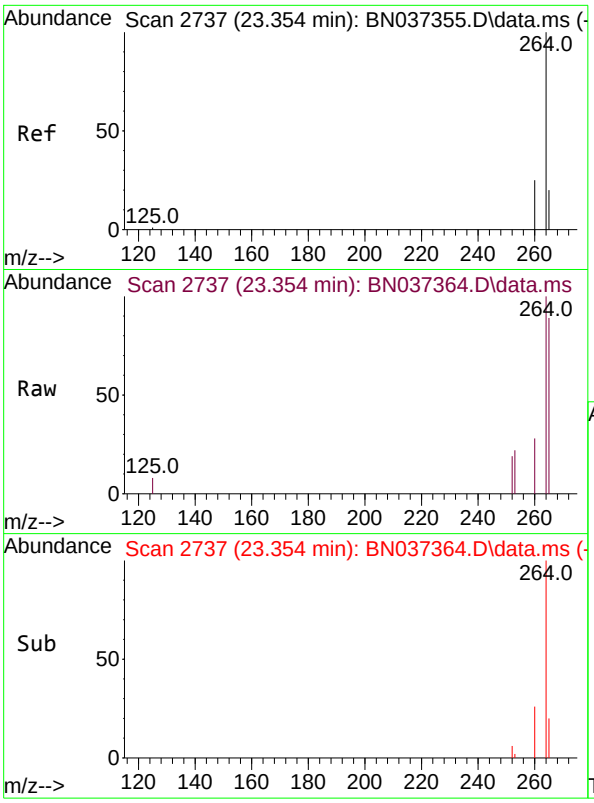


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.358 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:149 Resp: 2023

Ion	Ratio	Lower	Upper
149	100		
167	32.9	24.6	37.0
279	9.0	6.5	9.7



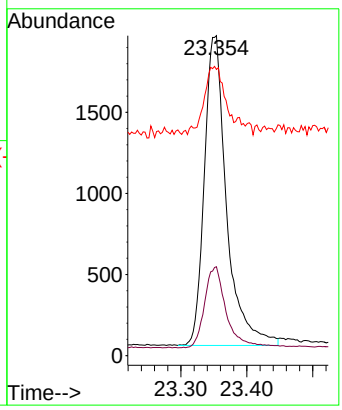


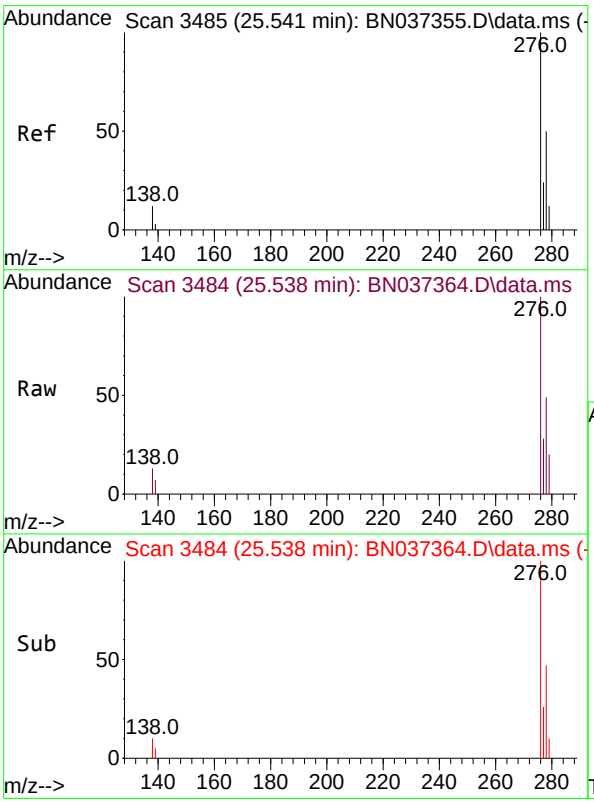
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:264 Resp: 4470

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.4	32.2
265	89.4	71.4	107.0

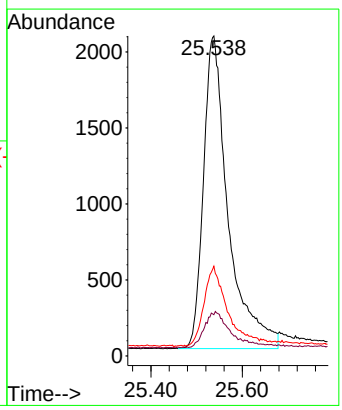


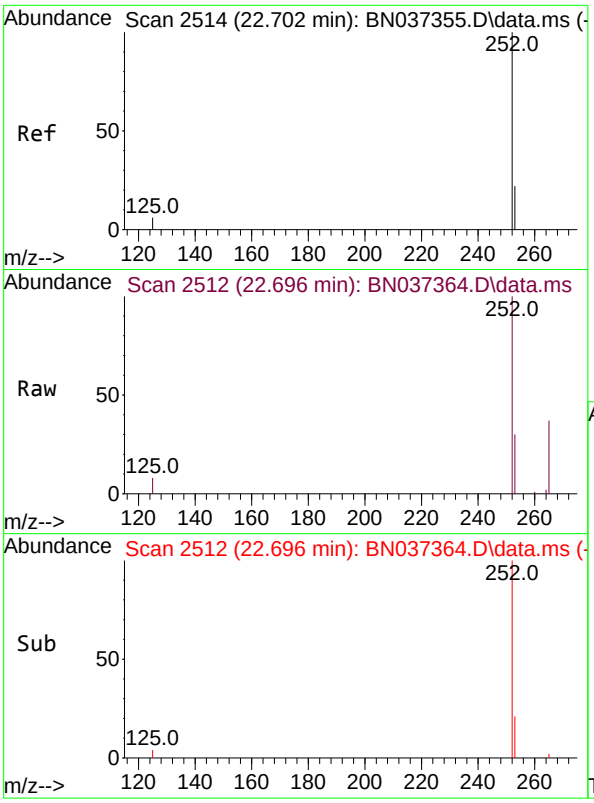


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.538 min Scan# 3484
Delta R.T. -0.003 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:276 Resp: 7744

Ion	Ratio	Lower	Upper
276	100		
138	10.7	2.2	3.2#
277	24.0	17.1	25.7



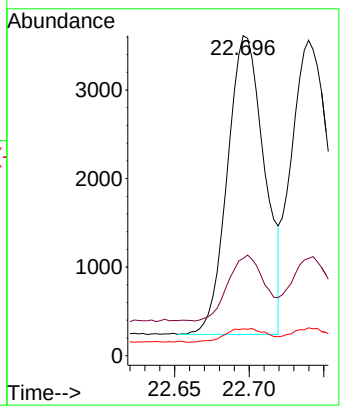


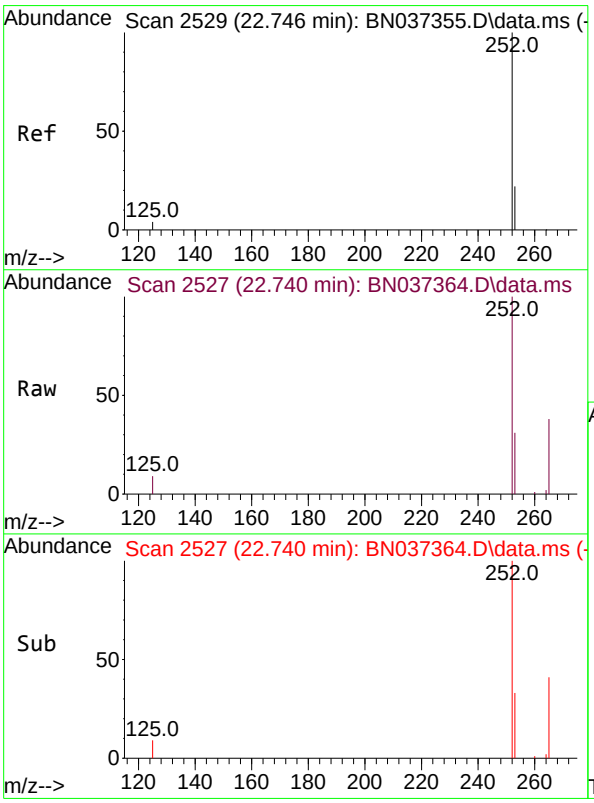
#37
Benzo(b)fluoranthene
Concen: 0.355 ng
RT: 22.696 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:252 Resp: 5838

Ion	Ratio	Lower	Upper
252	100		
253	30.4	26.6	40.0
125	8.3	6.1	9.1

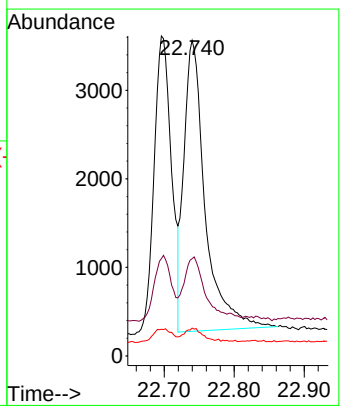


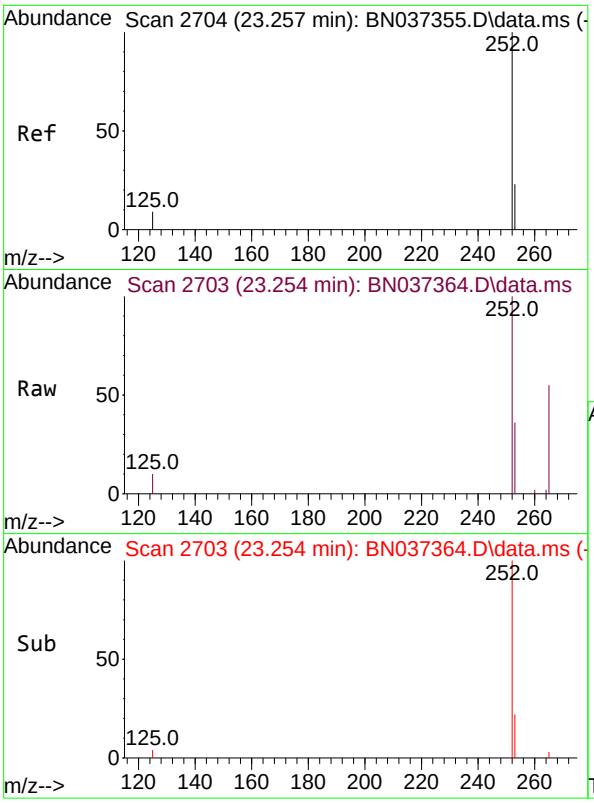


#38
Benzo(k)fluoranthene
Concen: 0.389 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:252 Resp: 6945

Ion	Ratio	Lower	Upper
252	100		
253	30.8	26.7	40.1
125	8.8	6.5	9.7



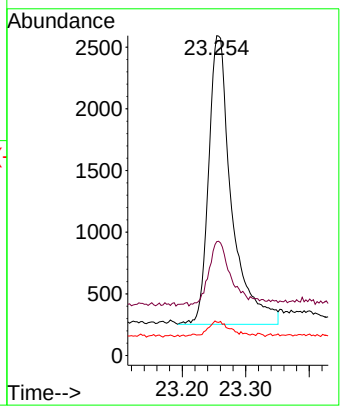


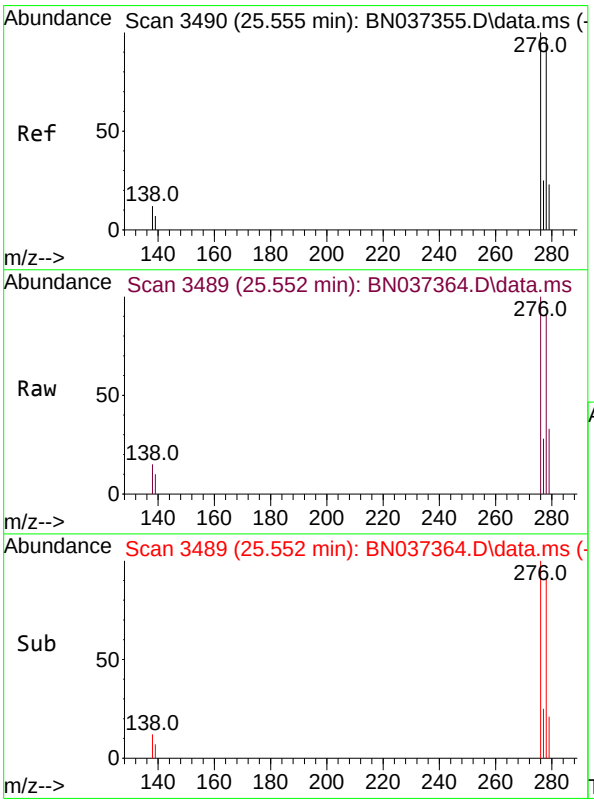
#39
Benzo(a)pyrene
Concen: 0.399 ng
RT: 23.254 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:252 Resp: 5888

Ion	Ratio	Lower	Upper
252	100		
253	35.6	31.6	47.4
125	10.5	8.4	12.6

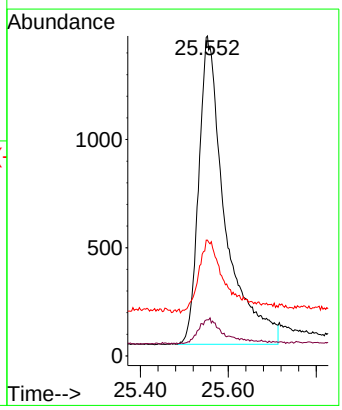


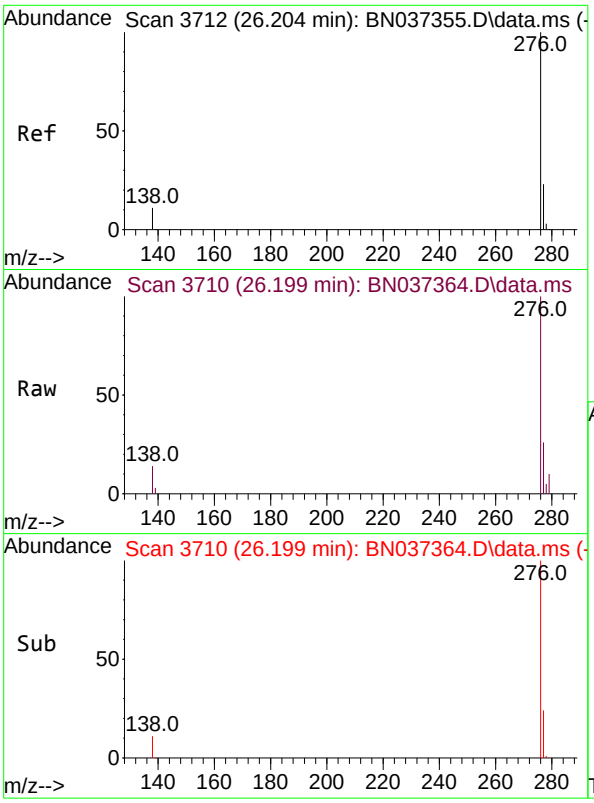


#40
Dibenzo(a,h)anthracene
Concen: 0.392 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.003 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:278 Resp: 5912

Ion	Ratio	Lower	Upper
278	100		
139	11.3	10.2	15.4
279	36.2	35.6	53.4



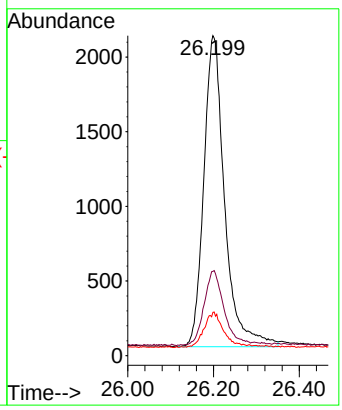


#41
Benzo(g,h,i)perylene
Concen: 0.393 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:276 Resp: 7039

Ion	Ratio	Lower	Upper
276	100		
277	26.4	22.7	34.1
138	13.5	9.4	14.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

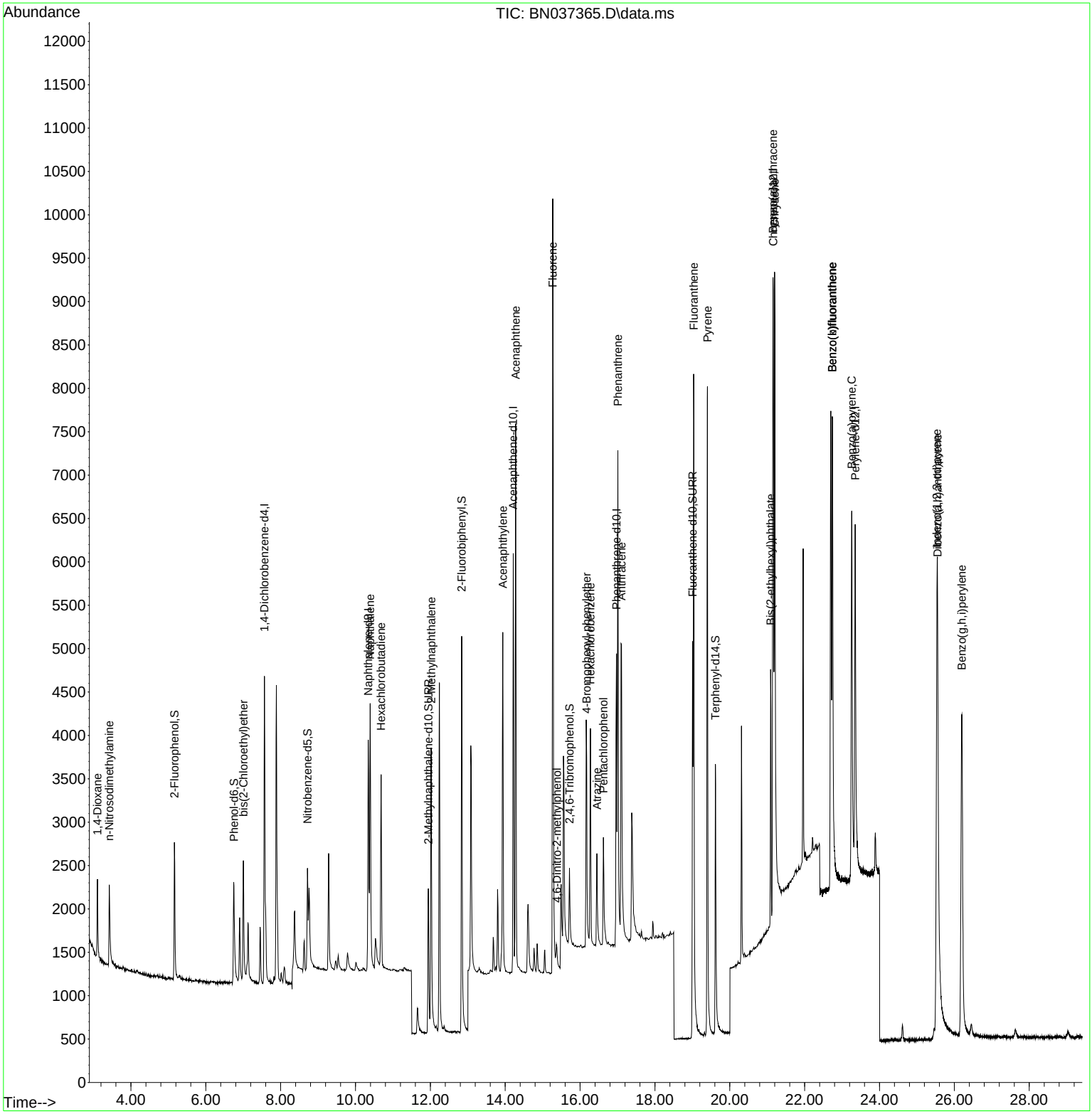
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.568	152	1894	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4150	0.400	ng	#	0.00
13) Acenaphthene-d10	14.213	164	2786	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5748	0.400	ng	#	0.00
29) Chrysene-d12	21.162	240	5140	0.400	ng		0.00
35) Perylene-d12	23.351	264	5682	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	1402	0.370	ng		0.00
5) Phenol-d6	6.752	99	1426	0.366	ng		0.00
8) Nitrobenzene-d5	8.717	82	1321	0.394	ng		0.00
11) 2-Methylnaphthalene-d10	11.945	152	2780	0.413	ng		0.00
14) 2,4,6-Tribromophenol	15.718	330	608	0.372	ng		0.00
15) 2-Fluorobiphenyl	12.838	172	4951	0.405	ng		0.00
27) Fluoranthene-d10	19.008	212	6836	0.414	ng		0.00
31) Terphenyl-d14	19.616	244	4639	0.396	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	755	0.392	ng		95
3) n-Nitrosodimethylamine	3.422	42	701	0.397	ng	#	78
6) bis(2-Chloroethyl)ether	7.004	93	1274	0.368	ng		100
9) Naphthalene	10.394	128	4308	0.393	ng	#	90
10) Hexachlorobutadiene	10.682	225	1876	0.434	ng	#	100
12) 2-Methylnaphthalene	12.021	142	2941	0.385	ng		93
16) Acenaphthylene	13.935	152	4498	0.384	ng		98
17) Acenaphthene	14.277	154	2949	0.383	ng		98
18) Fluorene	15.272	166	4167	0.385	ng		99
20) 4,6-Dinitro-2-methylph...	15.379	198	483	0.350	ng		85
21) 4-Bromophenyl-phenylether	16.177	248	1621	0.396	ng	#	94
22) Hexachlorobenzene	16.276	284	1819	0.408	ng		99
23) Atrazine	16.450	200	1187	0.364	ng	#	87
24) Pentachlorophenol	16.624	266	805	0.363	ng		96
25) Phenanthrene	17.009	178	6282	0.377	ng		99
26) Anthracene	17.108	178	5522	0.360	ng		99
28) Fluoranthene	19.036	202	8102	0.385	ng		98
30) Pyrene	19.403	202	8105	0.388	ng		100
32) Benzo(a)anthracene	21.153	228	6359	0.376	ng		98
33) Chrysene	21.198	228	8015	0.391	ng		98
34) Bis(2-ethylhexyl)phtha...	21.090	149	2672	0.385	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.535	276	9725	0.382	ng	#	92
37) Benzo(b)fluoranthene	22.740	252	9018	0.431	ng		94
38) Benzo(k)fluoranthene	22.740	252	9018	0.398	ng		94
39) Benzo(a)pyrene	23.255	252	7122	0.380	ng	#	90
40) Dibenzo(a,h)anthracene	25.553	278	7424	0.388	ng	#	85
41) Benzo(g,h,i)perylene	26.199	276	8859	0.389	ng		95

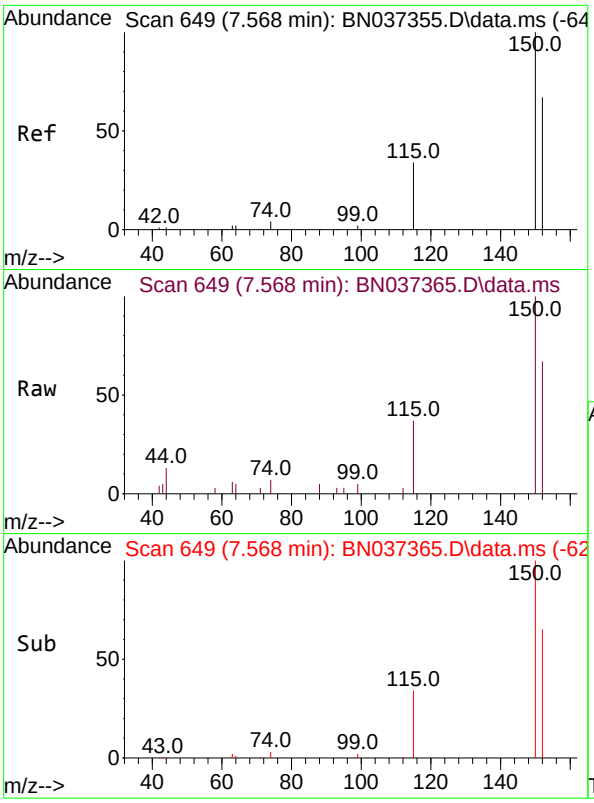
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



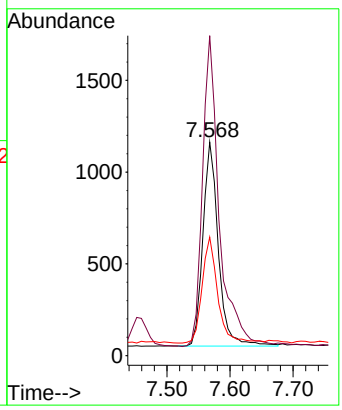


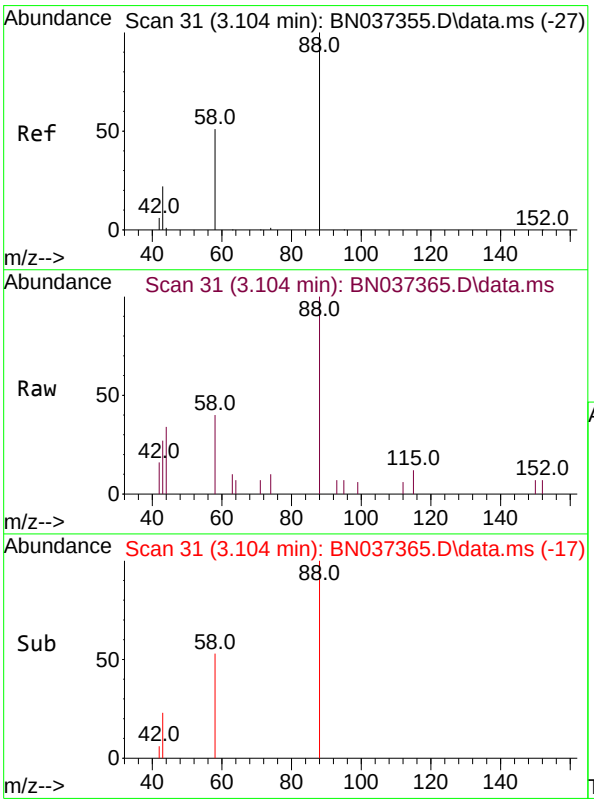
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1894

Ion	Ratio	Lower	Upper
152	100		
150	149.8	112.7	169.1
115	55.5	45.9	68.9

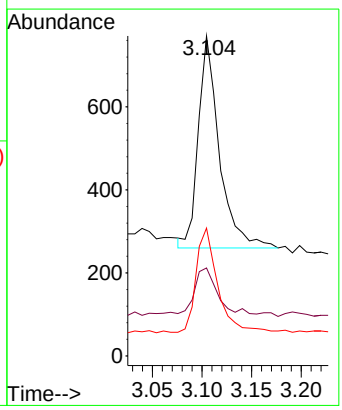


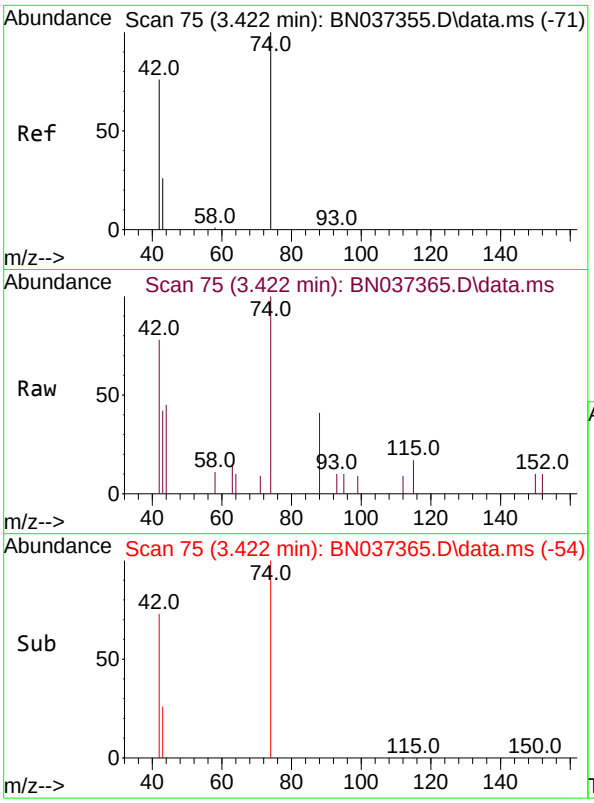


#2
1,4-Dioxane
Concen: 0.392 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 88 Resp: 755

Ion	Ratio	Lower	Upper
88	100		
43	22.8	21.0	31.6
58	49.9	38.0	57.0



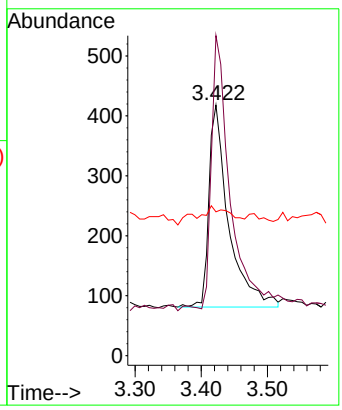


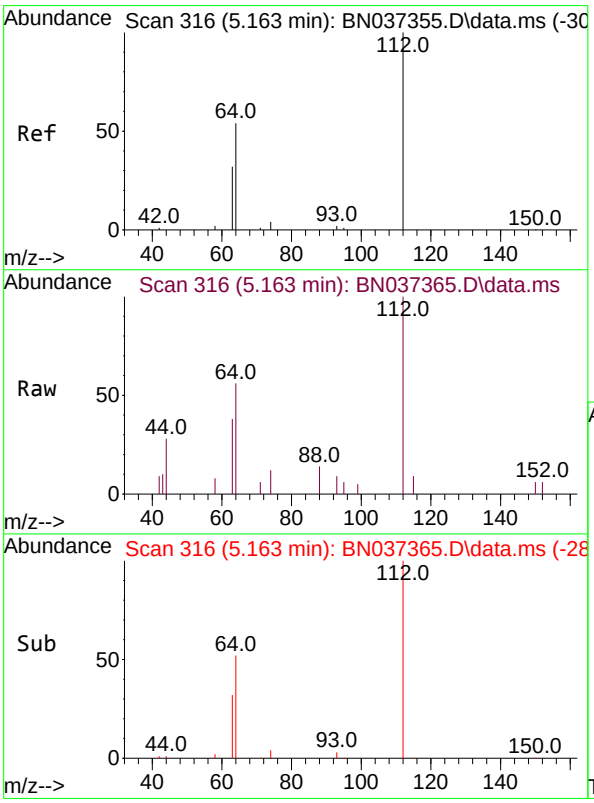
#3
n-Nitrosodimethylamine
Concen: 0.397 ng
RT: 3.422 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 701

Ion	Ratio	Lower	Upper
42	100		
74	129.2	84.3	126.5#
44	9.3	5.0	7.4#

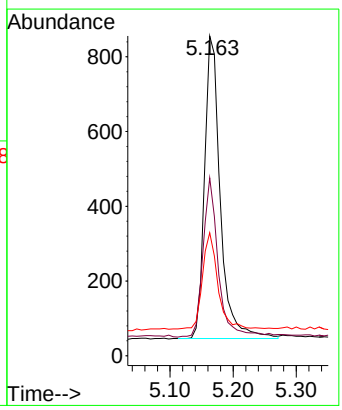


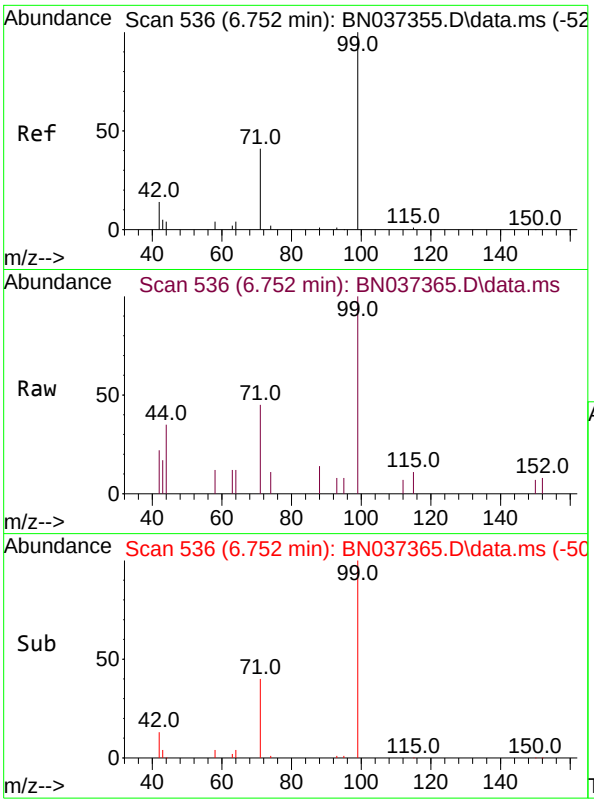


#4
2-Fluorophenol
Concen: 0.370 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:112 Resp: 1402

Ion	Ratio	Lower	Upper
112	100		
64	52.2	38.7	58.1
63	31.0	26.4	39.6



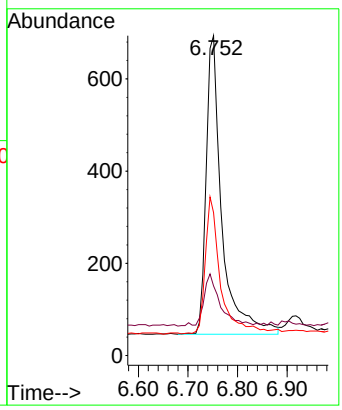


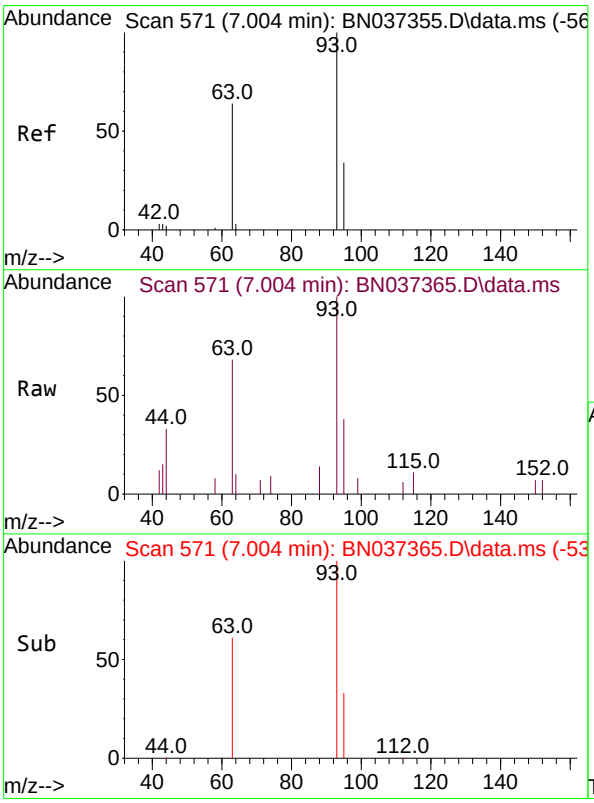
#5
Phenol-d6
Concen: 0.366 ng
RT: 6.752 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1426

Ion	Ratio	Lower	Upper
99	100		
42	18.2	19.8	29.8#
71	44.0	42.6	64.0

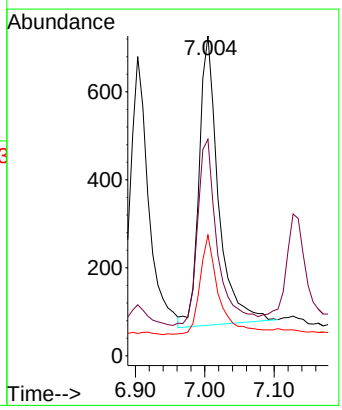


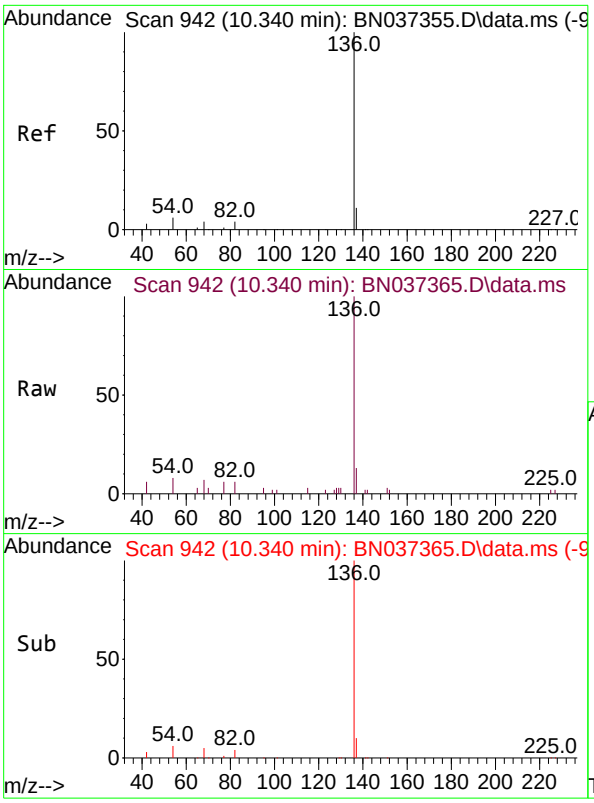


#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 93 Resp: 1274

Ion	Ratio	Lower	Upper
93	100		
63	66.6	53.2	79.8
95	33.8	27.3	40.9



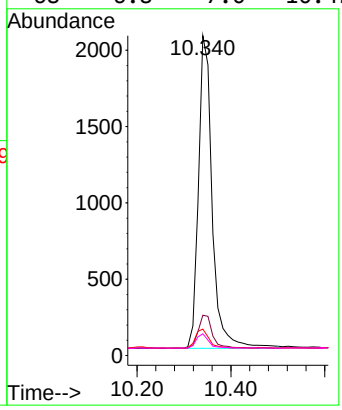


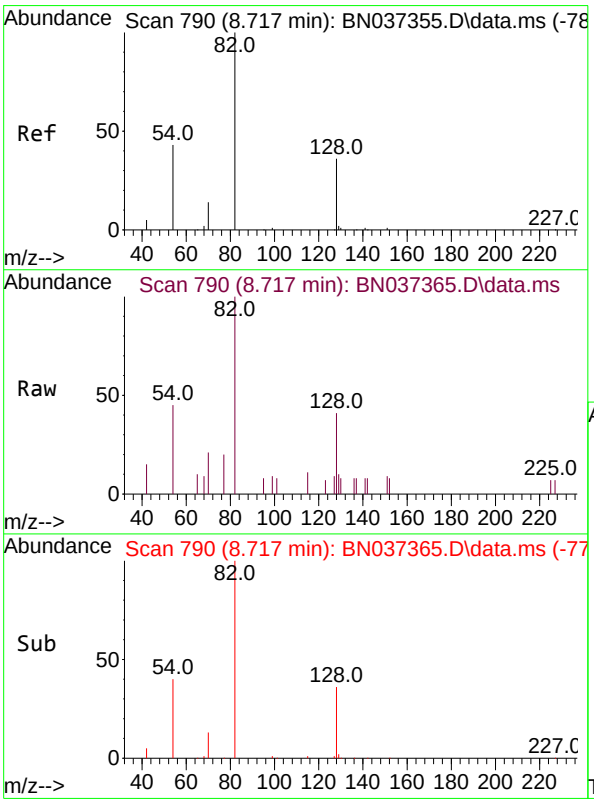
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4150

Ion	Ratio	Lower	Upper
136	100		
137	12.6	12.2	18.2
54	8.3	8.8	13.2#
68	6.8	7.0	10.4#

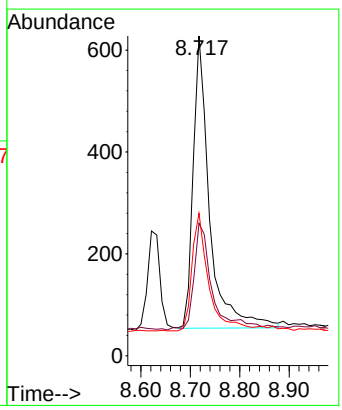


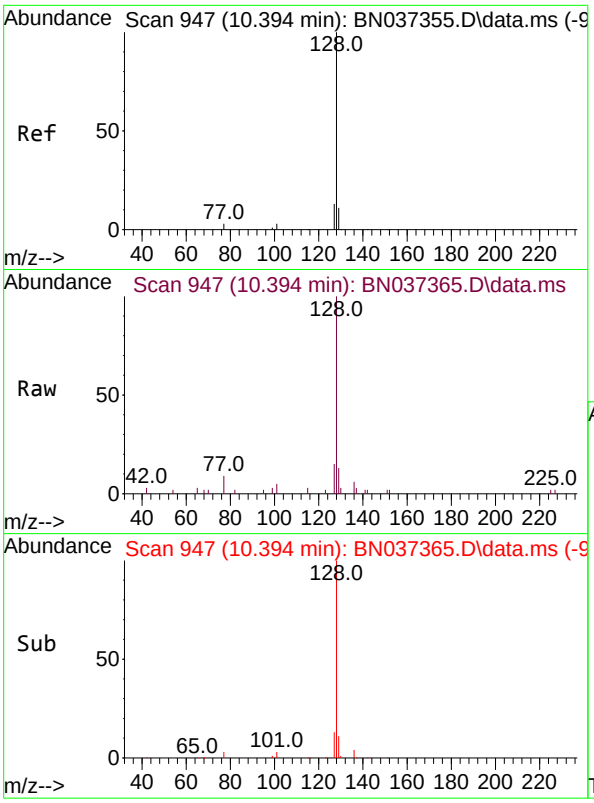


#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 82 Resp: 1321

Ion	Ratio	Lower	Upper
82	100		
128	41.4	42.5	63.7#
54	44.6	43.2	64.8



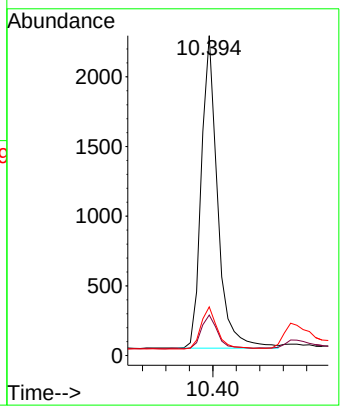


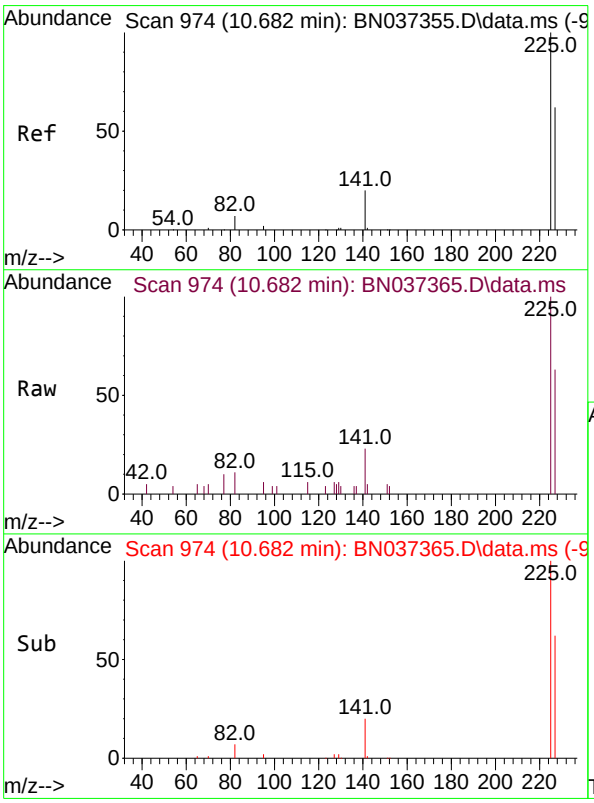
#9
Naphthalene
Concen: 0.393 ng
RT: 10.394 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4308

Ion	Ratio	Lower	Upper
128	100		
129	12.7	14.0	21.0#
127	15.2	15.8	23.8#

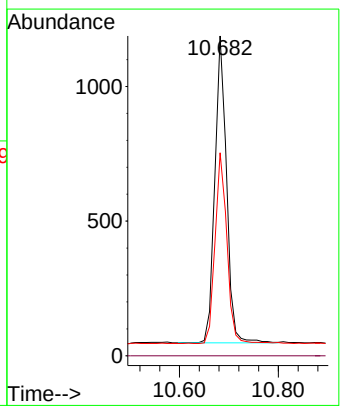


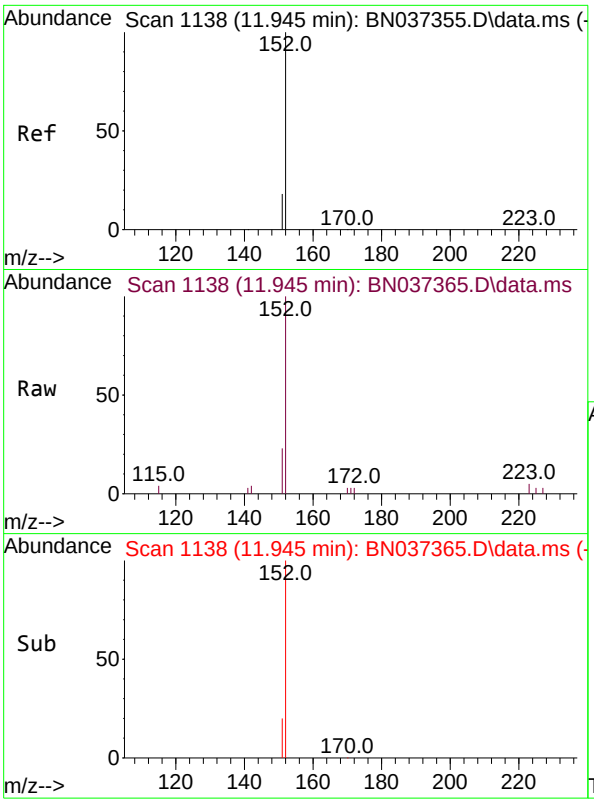


#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:225 Resp: 1876

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	50.3	75.5



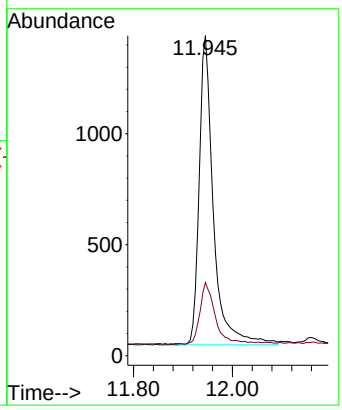


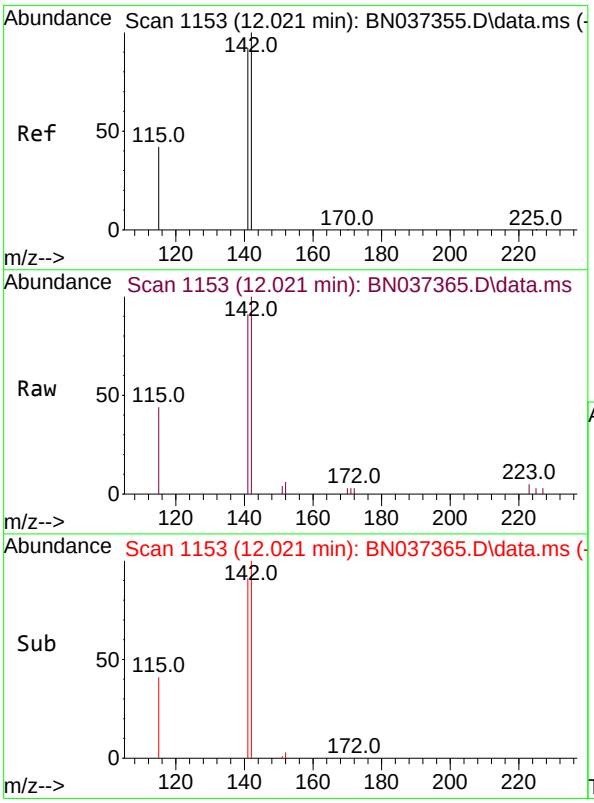
#11
2-Methylnaphthalene-d10
Concen: 0.413 ng
RT: 11.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2780

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.4	26.0

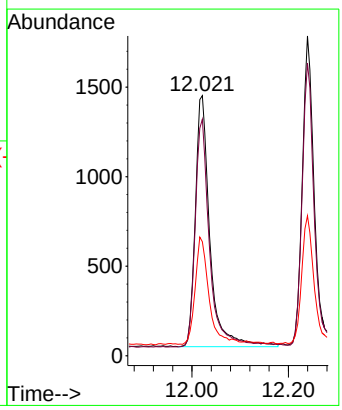


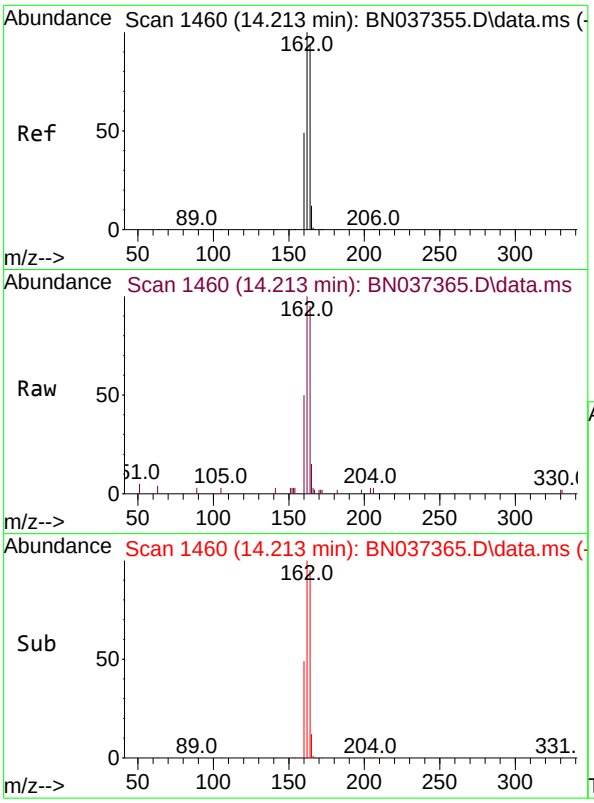


#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:142 Resp: 2941

Ion	Ratio	Lower	Upper
142	100		
141	90.9	70.2	105.2
115	43.9	43.0	64.4



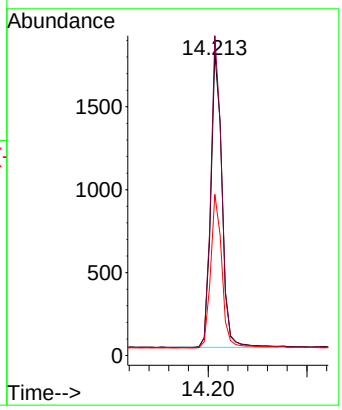


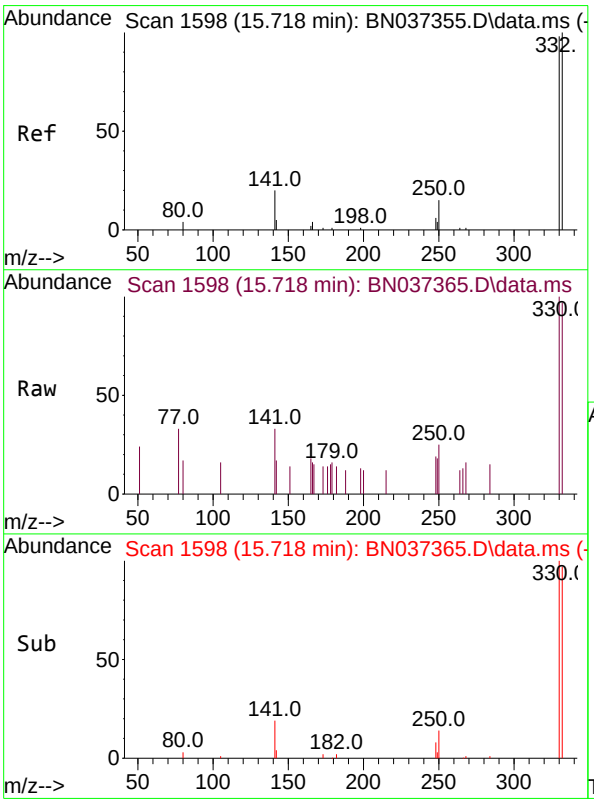
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 2786

Ion	Ratio	Lower	Upper
164	100		
162	105.6	81.5	122.3
160	53.2	43.0	64.4

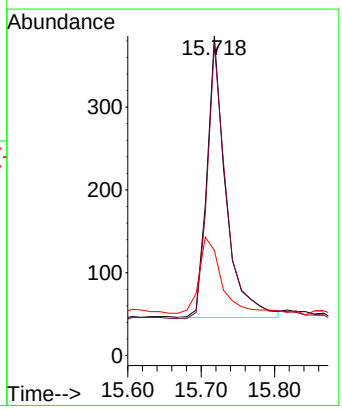


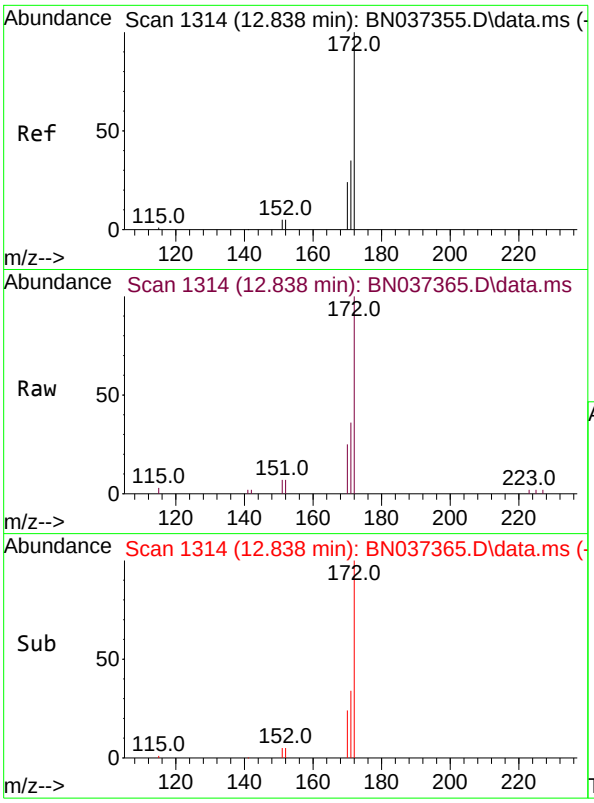


#14
2,4,6-Tribromophenol
Concen: 0.372 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:330 Resp: 608

Ion	Ratio	Lower	Upper
330	100		
332	102.3	78.4	117.6
141	35.9	24.4	36.6



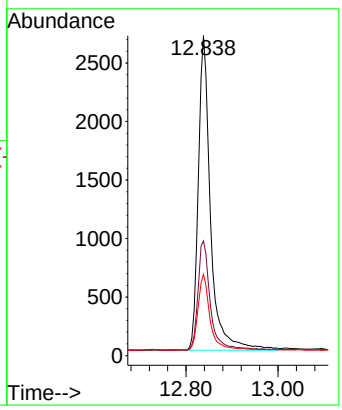


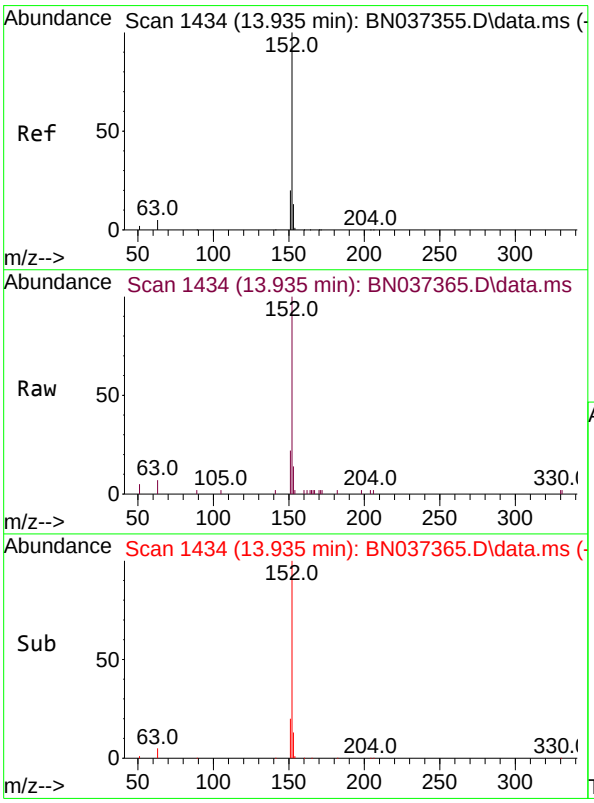
#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.838 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 4951

Ion	Ratio	Lower	Upper
172	100		
171	35.8	30.8	46.2
170	25.4	21.9	32.9

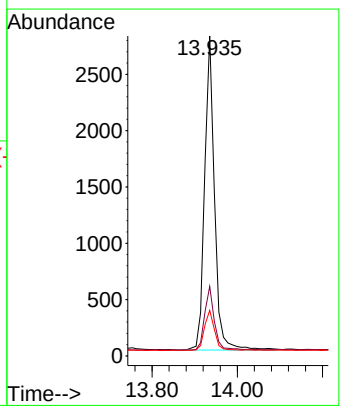


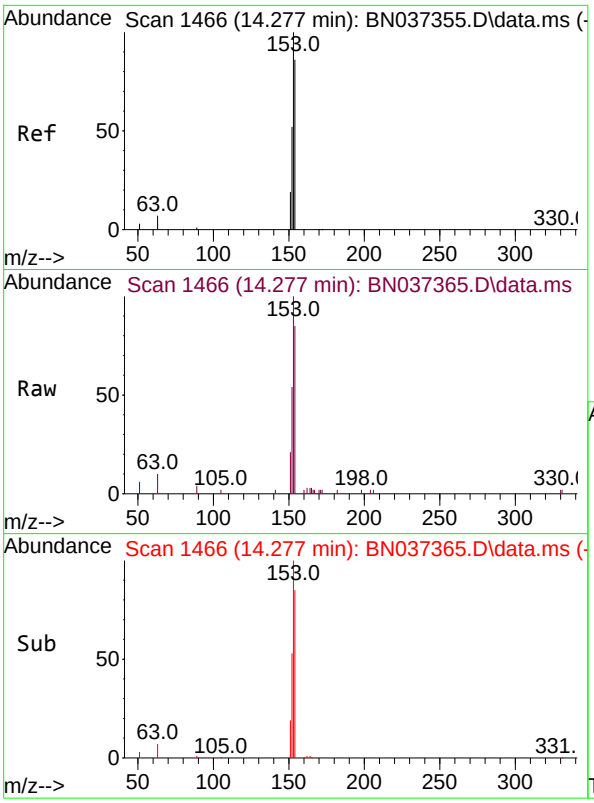


#16
Acenaphthylene
Concen: 0.384 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:152 Resp: 4498

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8
153	13.1	10.2	15.2



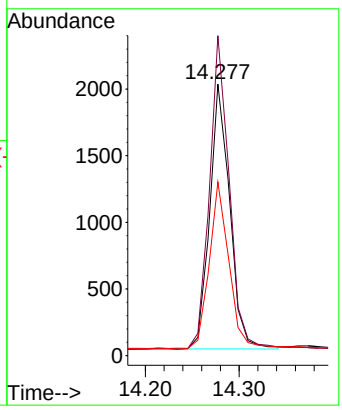


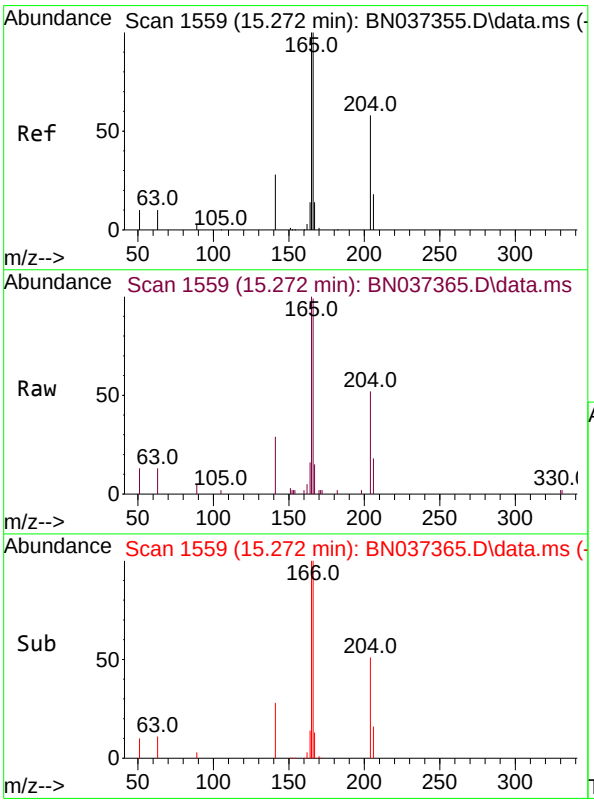
#17
Acenaphthene
Concen: 0.383 ng
RT: 14.277 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 2949

Ion	Ratio	Lower	Upper
154	100		
153	118.3	93.1	139.7
152	63.2	48.6	73.0

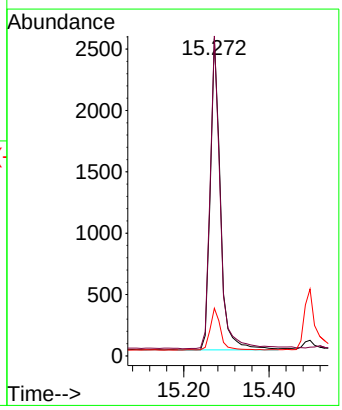


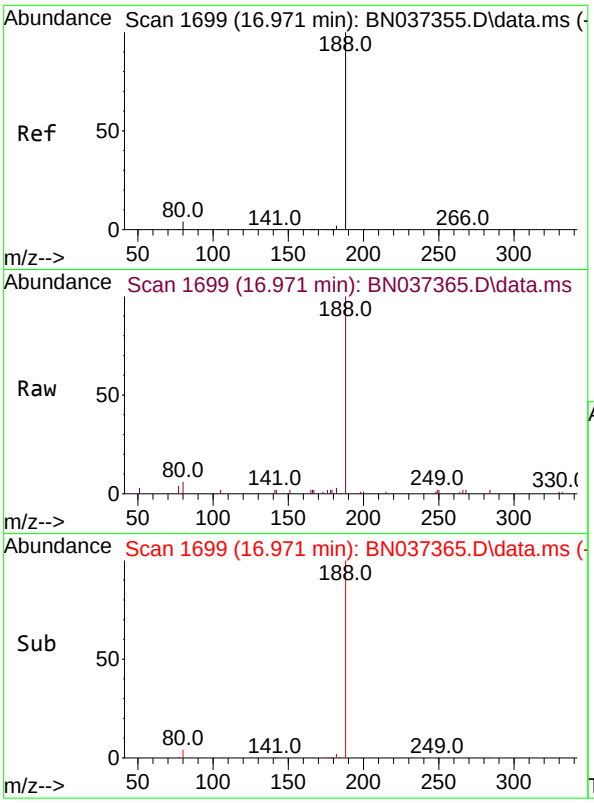


#18
Fluorene
Concen: 0.385 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:166 Resp: 4167

Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.5	119.3
167	13.8	10.7	16.1



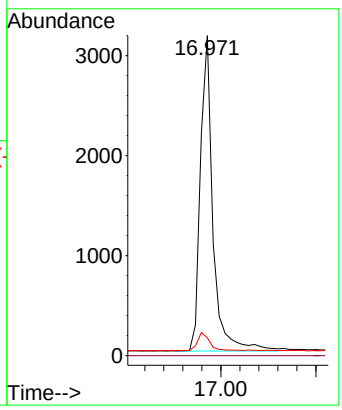


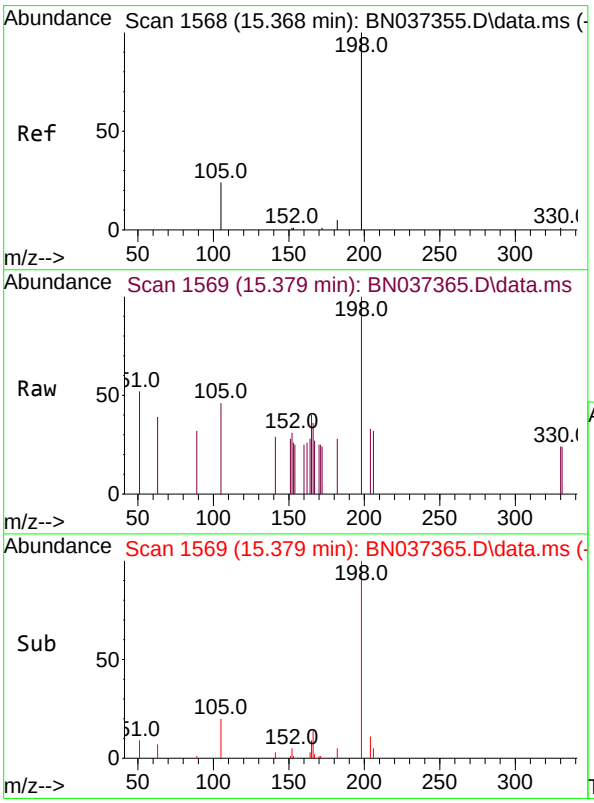
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5748

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.6	6.2	9.2#

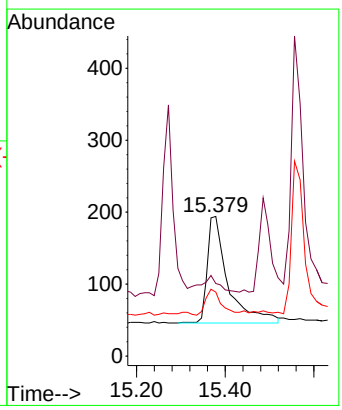


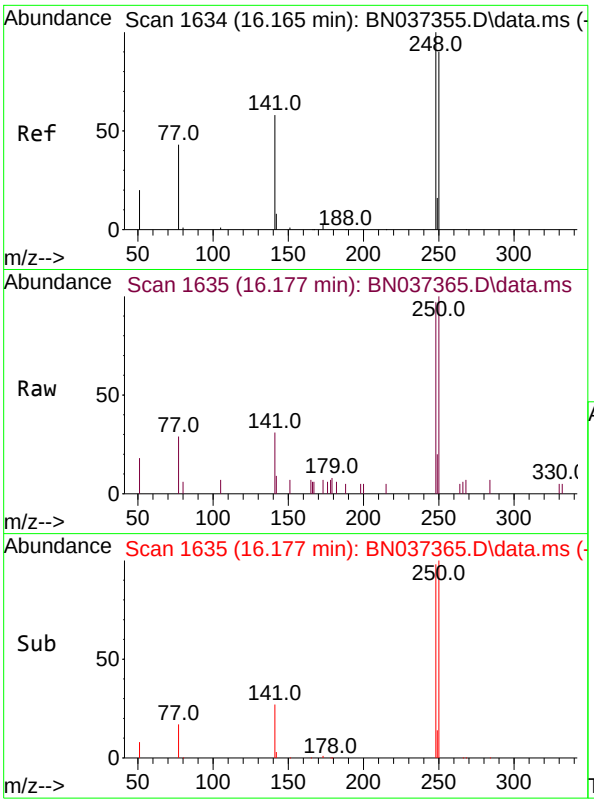


#20
4,6-Dinitro-2-methylphenol
Concen: 0.350 ng
RT: 15.379 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:198 Resp: 483

Ion	Ratio	Lower	Upper
198	100		
51	52.1	51.4	77.0
105	45.9	45.5	68.3



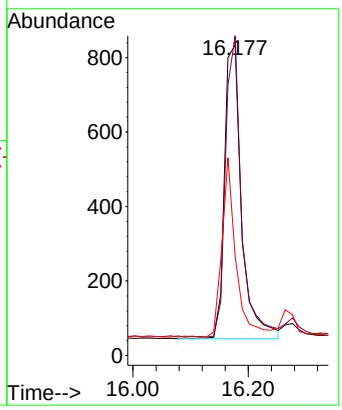


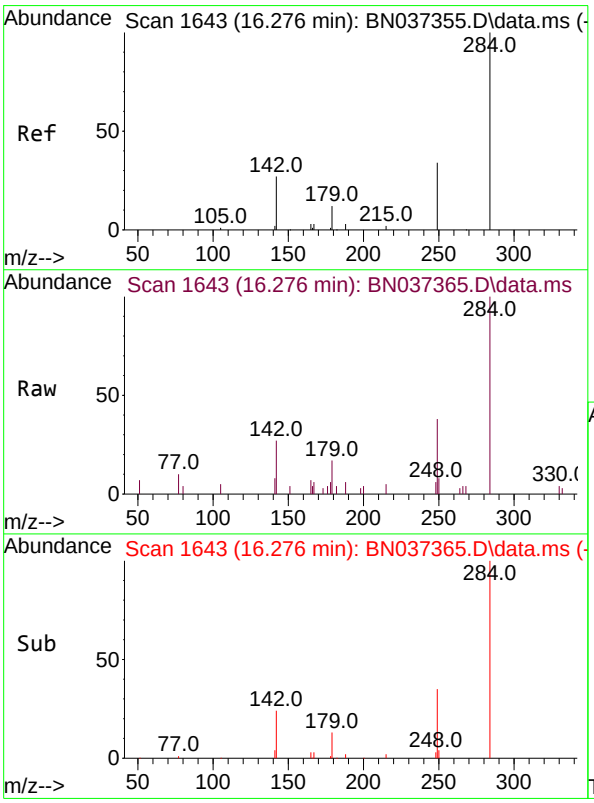
#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.177 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1621

Ion	Ratio	Lower	Upper
248	100		
250	103.0	80.4	120.6
141	31.9	33.3	49.9#

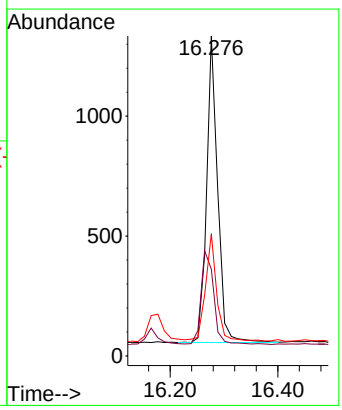


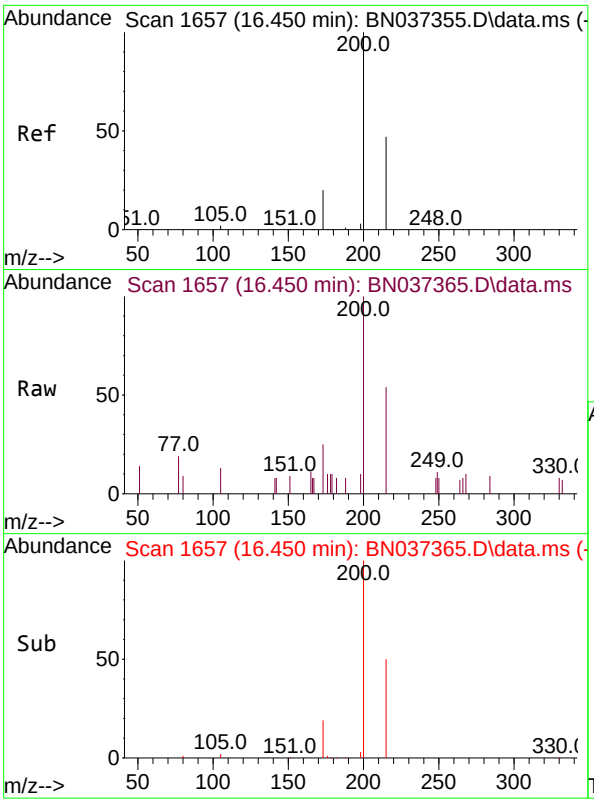


#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:284 Resp: 1819

Ion	Ratio	Lower	Upper
284	100		
142	34.9	27.0	40.6
249	35.5	28.8	43.2



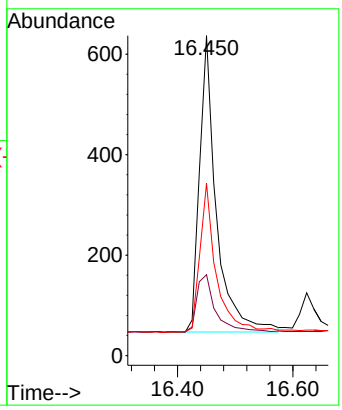


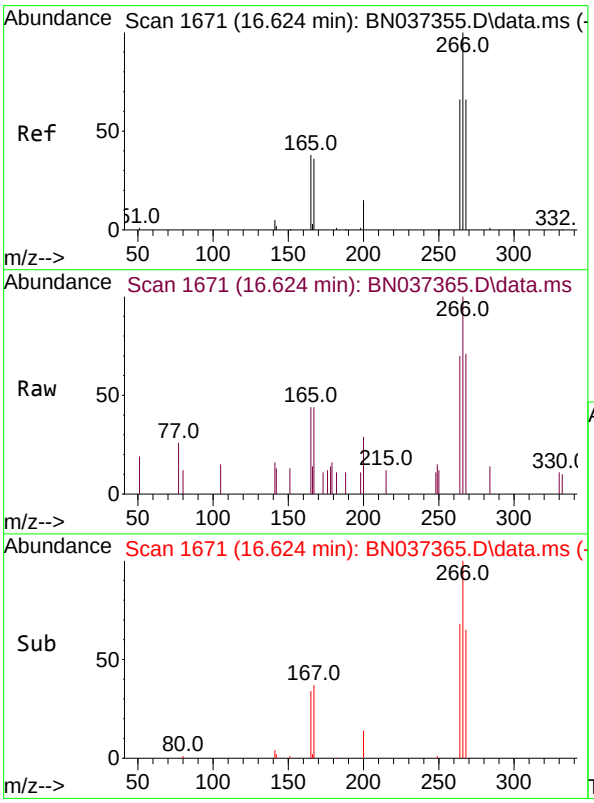
#23
Atrazine
Concen: 0.364 ng
RT: 16.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1187

Ion	Ratio	Lower	Upper
200	100		
173	25.3	29.2	43.8#
215	53.8	48.8	73.2

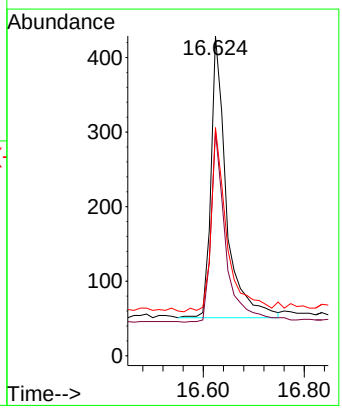


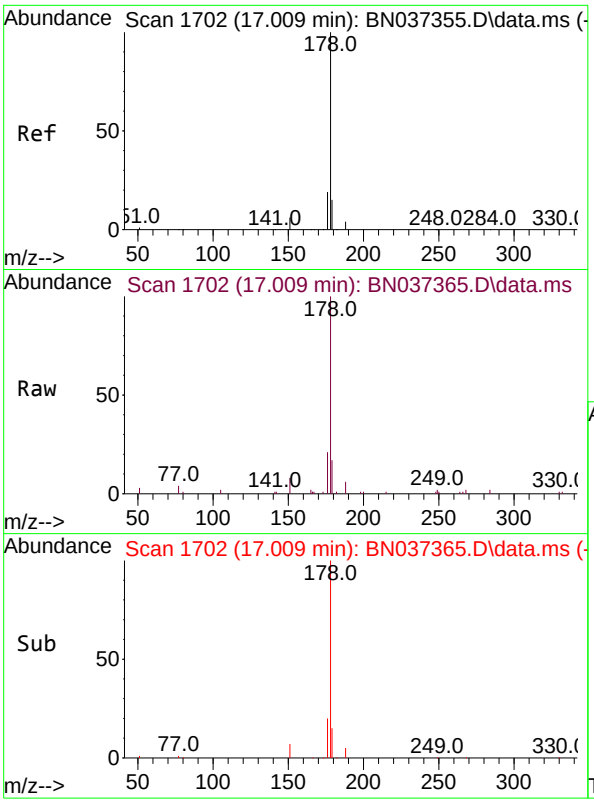


#24
Pentachlorophenol
Concen: 0.363 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:266 Resp: 805

Ion	Ratio	Lower	Upper
266	100		
264	65.6	50.3	75.5
268	66.2	55.3	82.9



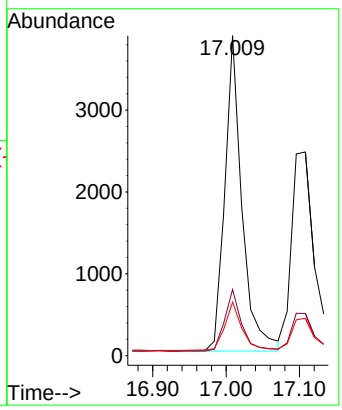


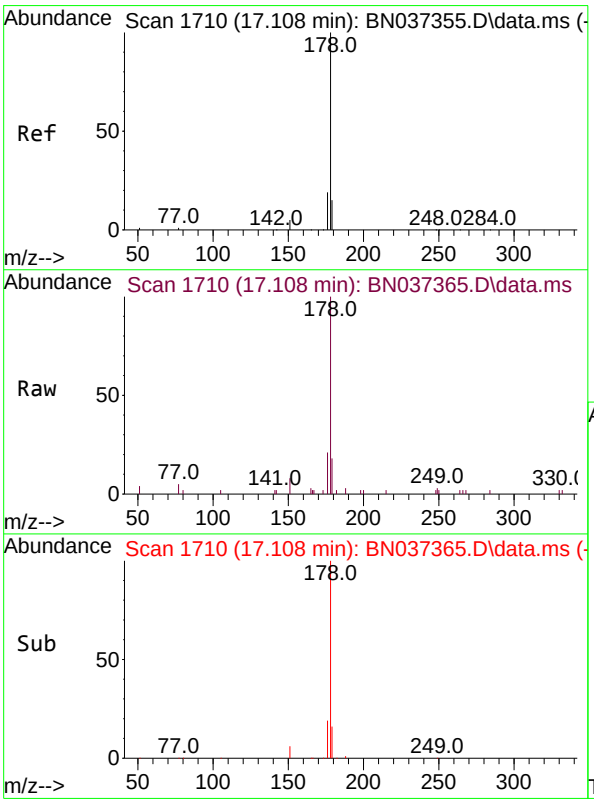
#25
Phenanthrene
Concen: 0.377 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 6282

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.5	12.9	19.3

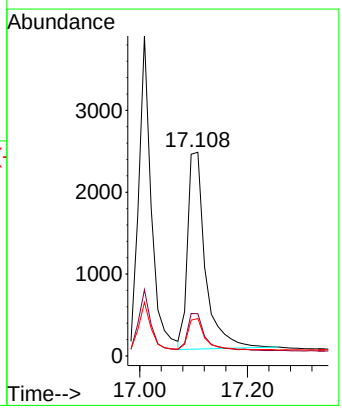


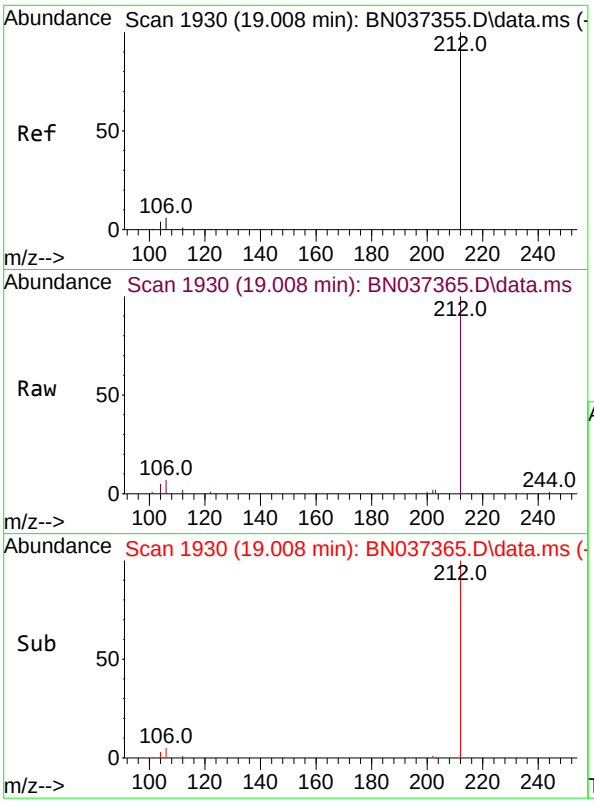


#26
Anthracene
Concen: 0.360 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:178 Resp: 5522

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.7	22.1
179	16.2	13.0	19.6



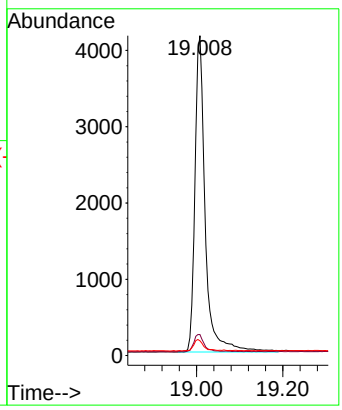


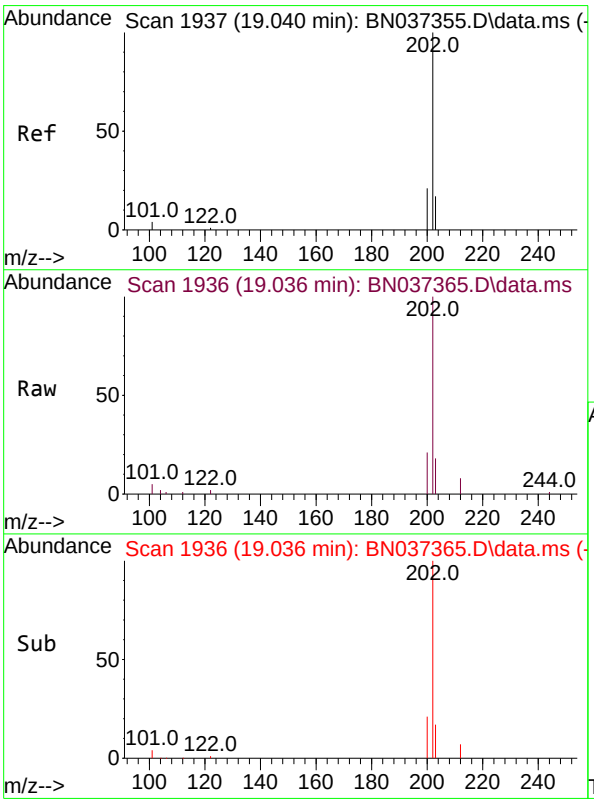
#27
Fluoranthene-d10
Concen: 0.414 ng
RT: 19.008 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 6836

Ion	Ratio	Lower	Upper
212	100		
106	5.5	3.0	4.4#
104	3.4	2.0	3.0#

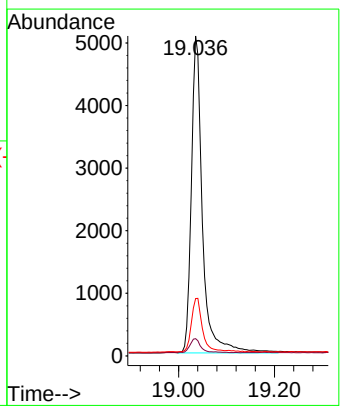


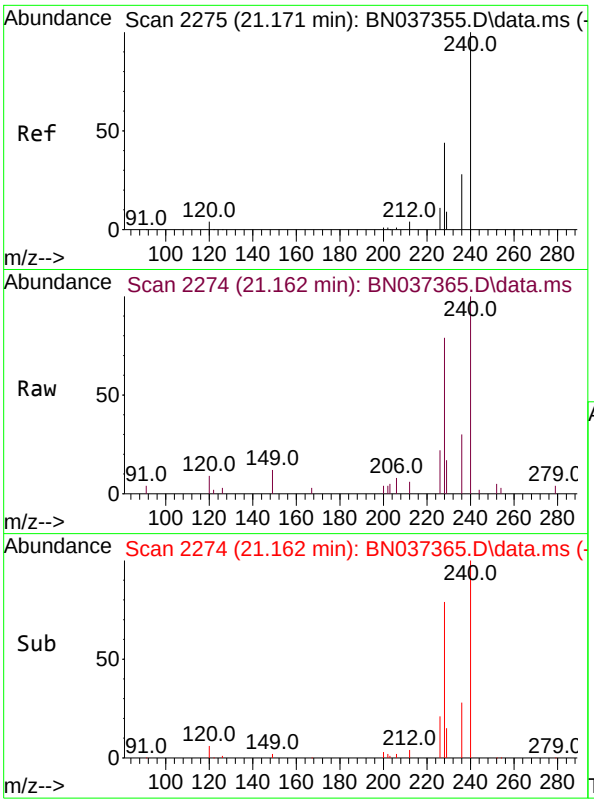


#28
Fluoranthene
Concen: 0.385 ng
RT: 19.036 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:202 Resp: 8102

Ion	Ratio	Lower	Upper
202	100		
101	4.5	3.0	4.6
203	16.4	13.7	20.5



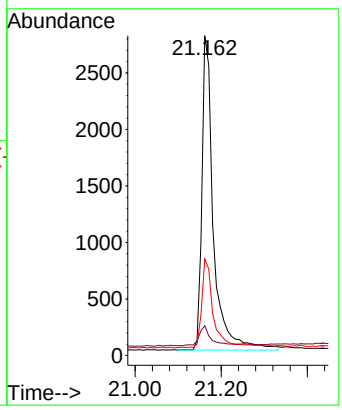


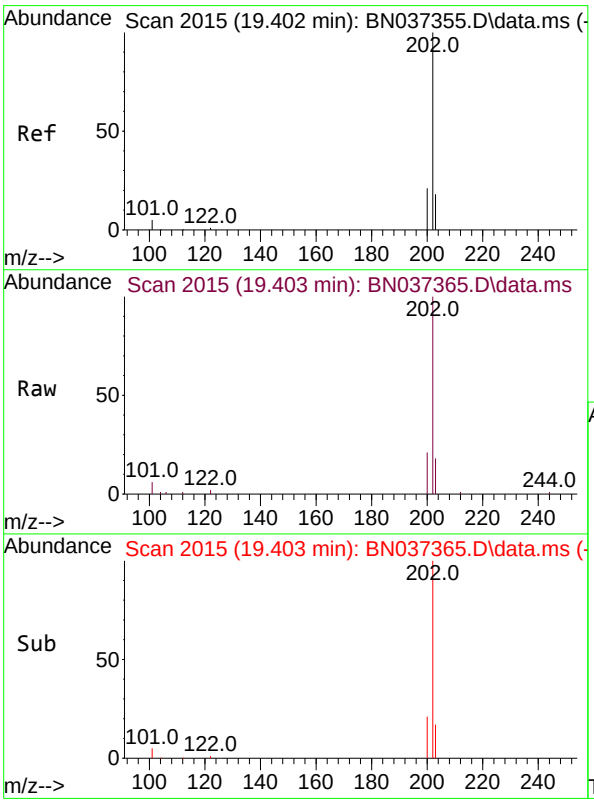
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 5140

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.5	11.3
236	30.2	24.9	37.3

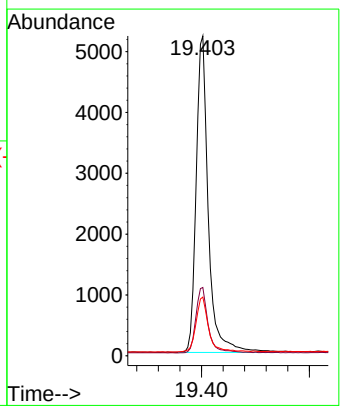


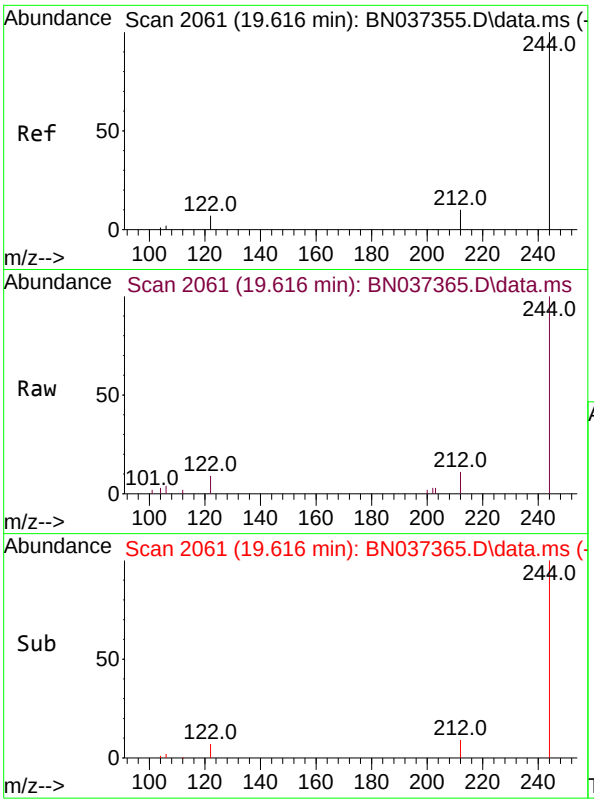


#30
Pyrene
Concen: 0.388 ng
RT: 19.403 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:202 Resp: 8105

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.5	21.7



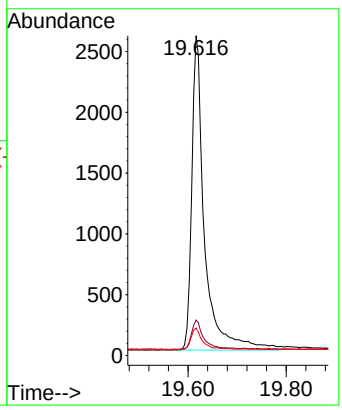


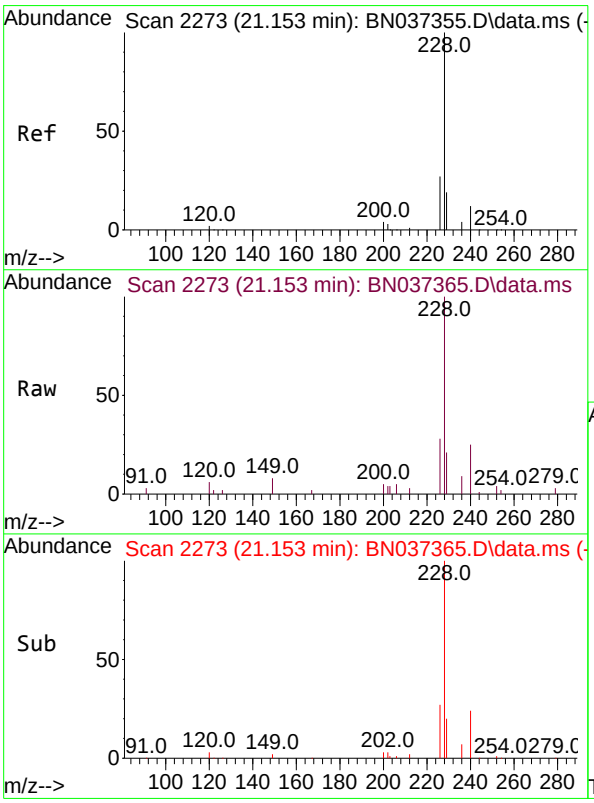
#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.616 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 4639

Ion	Ratio	Lower	Upper
244	100		
212	11.1	11.1	16.7
122	8.6	7.2	10.8

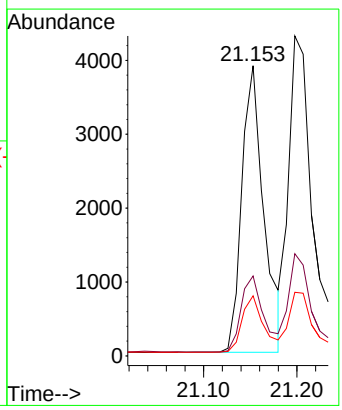


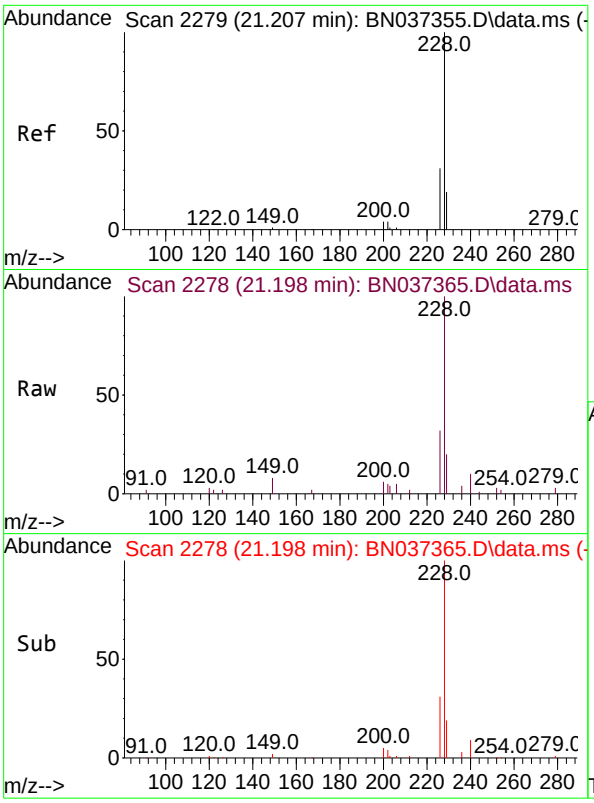


#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:228 Resp: 6359

Ion	Ratio	Lower	Upper
228	100		
226	27.5	23.0	34.4
229	20.7	17.4	26.0



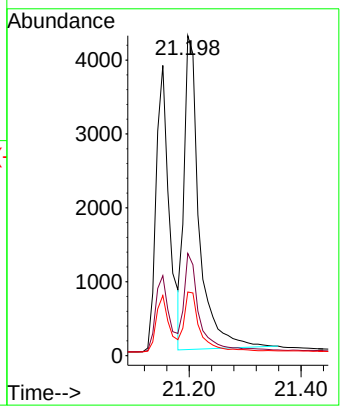


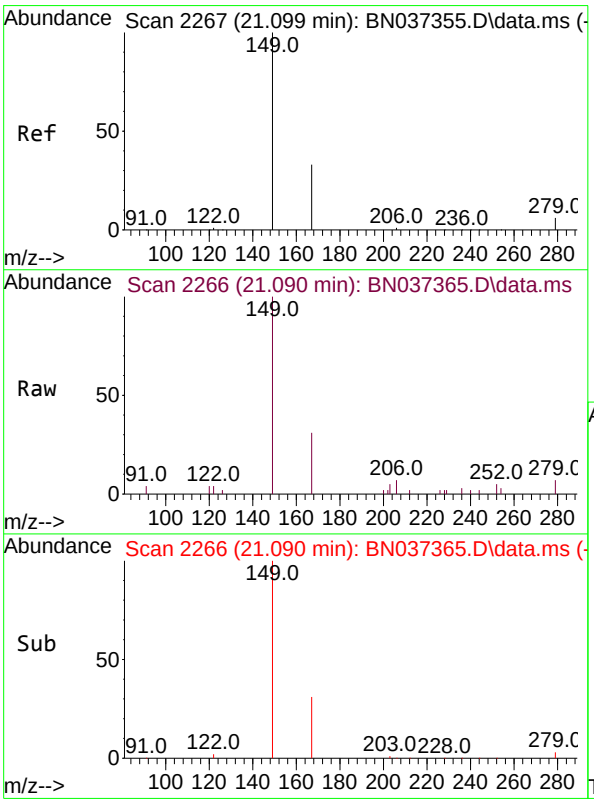
#33
Chrysene
Concen: 0.391 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 8015

Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.4	38.2
229	19.9	17.3	25.9

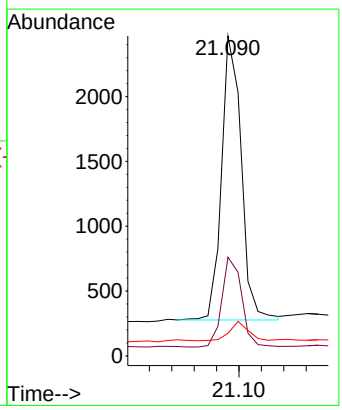


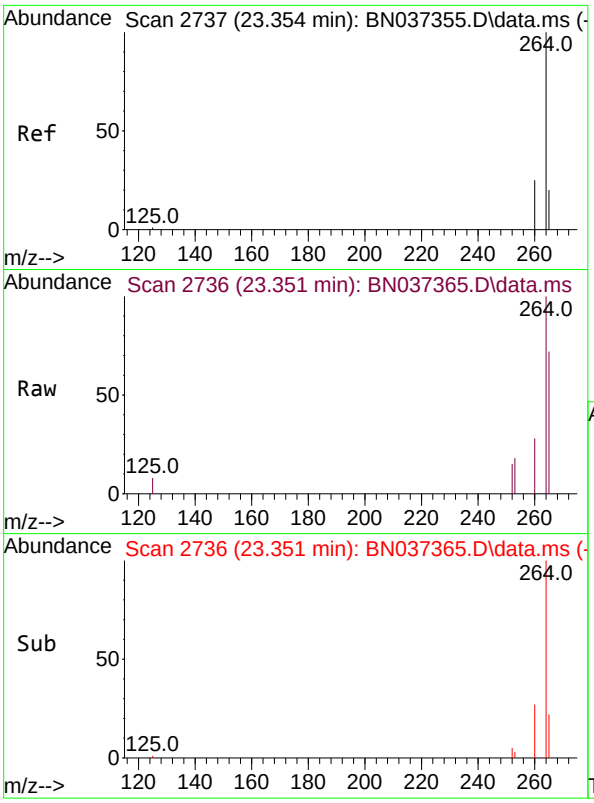


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.385 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:149 Resp: 2672

Ion	Ratio	Lower	Upper
149	100		
167	31.7	24.6	37.0
279	6.5	6.5	9.7#



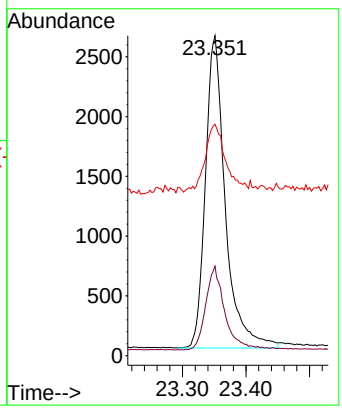


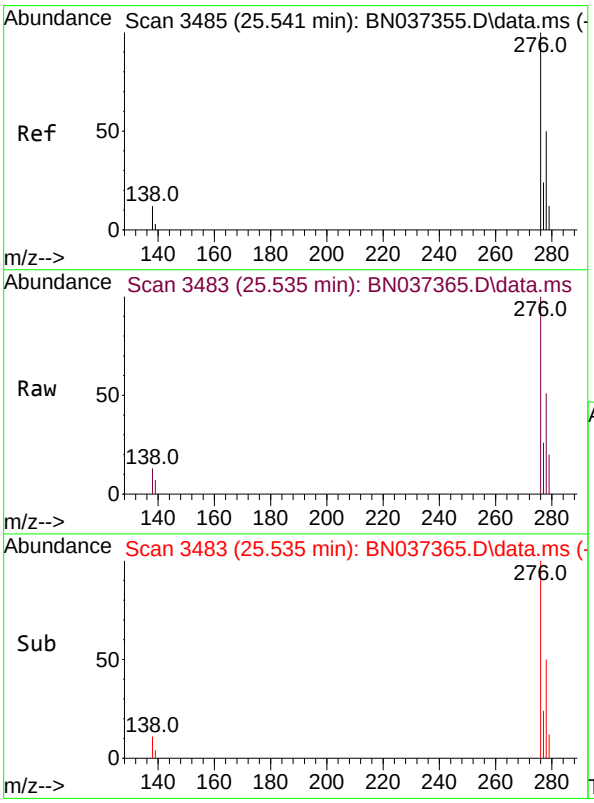
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 5682

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	72.3	71.4	107.0

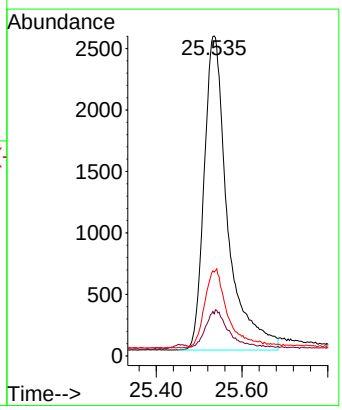


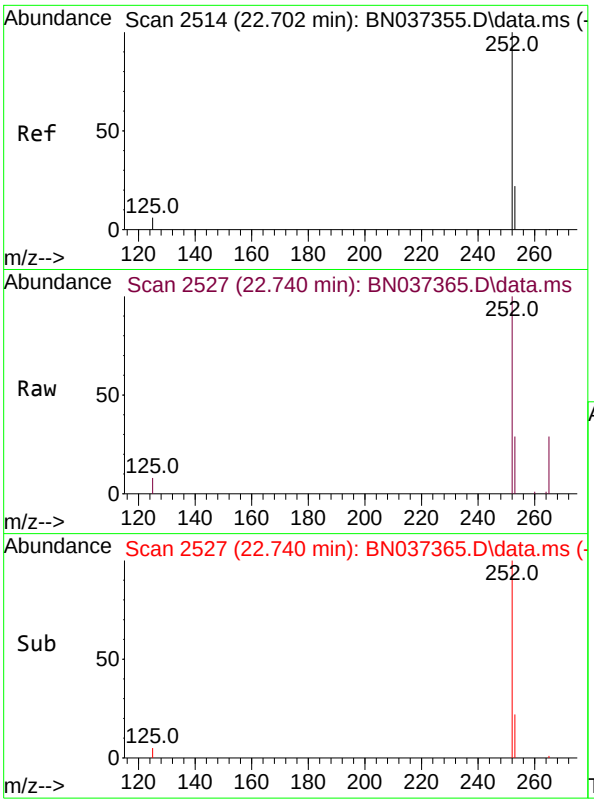


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 25.535 min Scan# 3483
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:276 Resp: 9725

Ion	Ratio	Lower	Upper
276	100		
138	11.2	2.2	3.2#
277	24.1	17.1	25.7



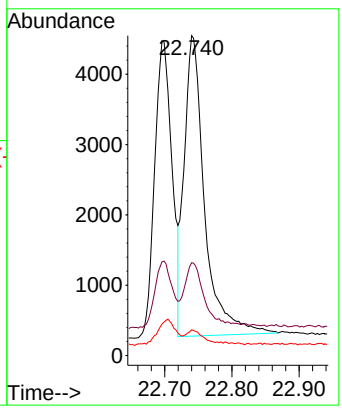


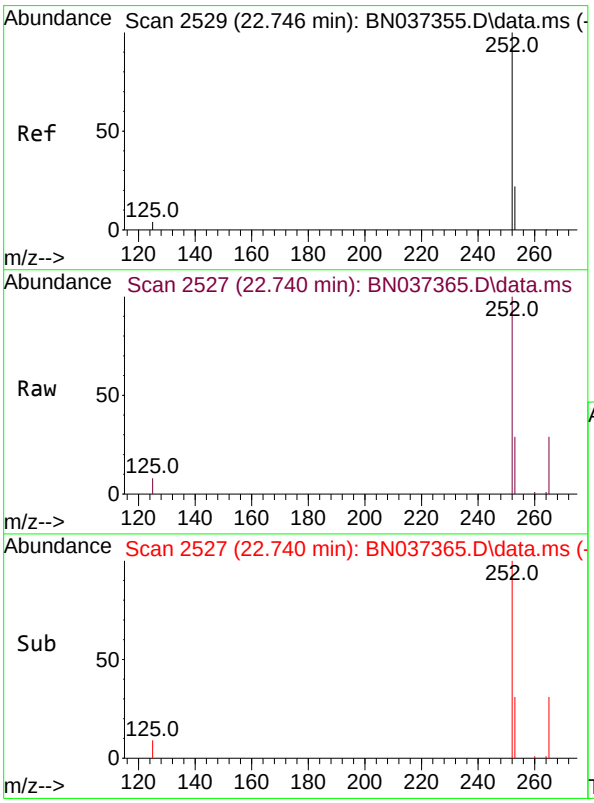
#37
Benzo(b)fluoranthene
Concen: 0.431 ng
RT: 22.740 min Scan# 2
Delta R.T. 0.038 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 9018

Ion	Ratio	Lower	Upper
252	100		
253	29.0	26.6	40.0
125	8.1	6.1	9.1

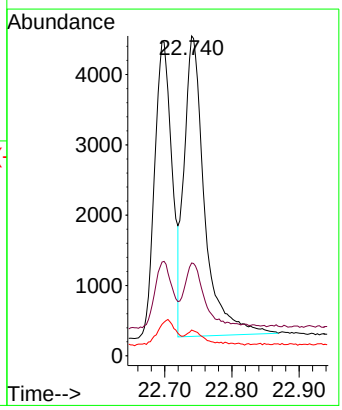


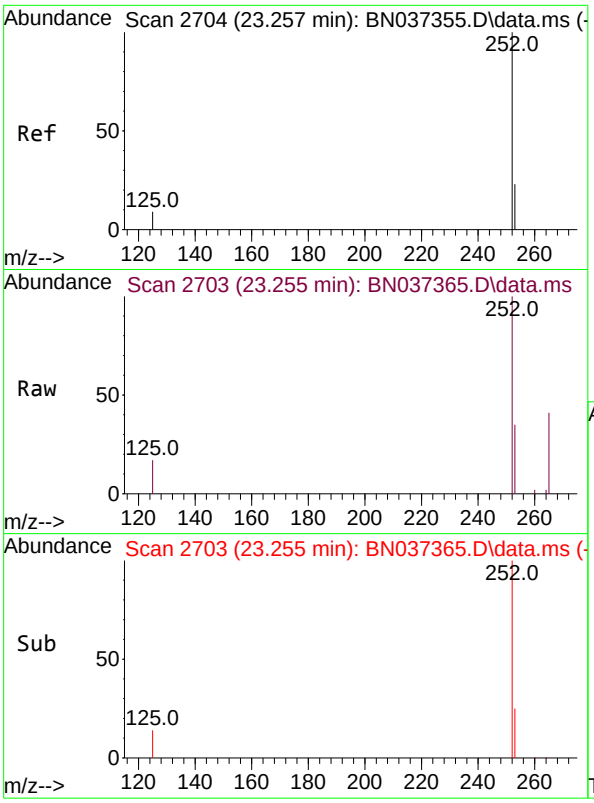


#38
Benzo(k)fluoranthene
Concen: 0.398 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:252 Resp: 9018

Ion	Ratio	Lower	Upper
252	100		
253	29.0	26.7	40.1
125	8.1	6.5	9.7



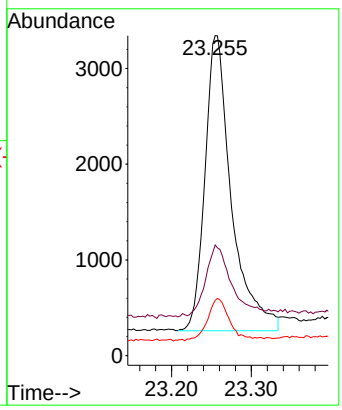


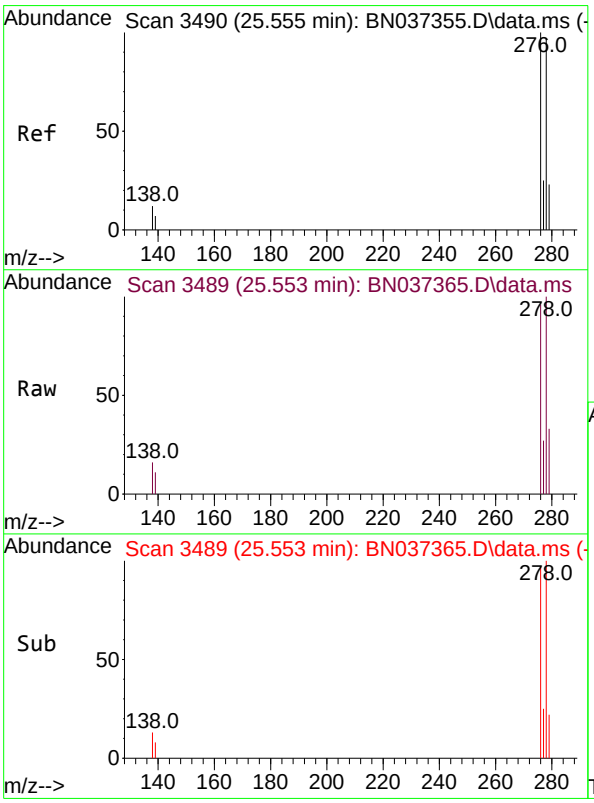
#39
Benzo(a)pyrene
Concen: 0.380 ng
RT: 23.255 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 7122

Ion	Ratio	Lower	Upper
252	100		
253	34.6	31.6	47.4
125	17.3	8.4	12.6#

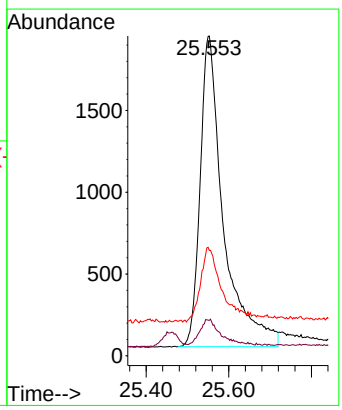


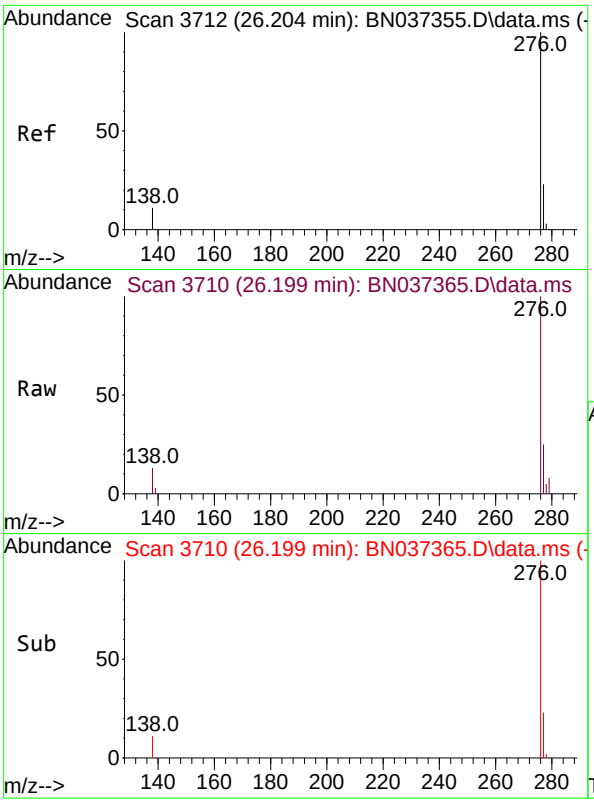


#40
Dibenzo(a,h)anthracene
Concen: 0.388 ng
RT: 25.553 min Scan# 3489
Delta R.T. -0.003 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:278 Resp: 7424

Ion	Ratio	Lower	Upper
278	100		
139	11.0	10.2	15.4
279	33.0	35.6	53.4#



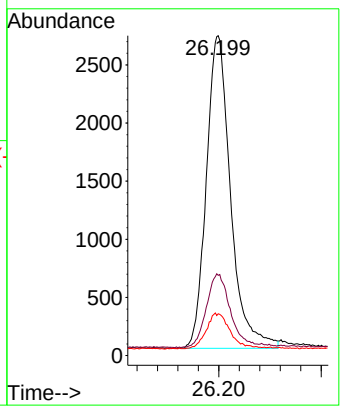


#41
Benzo(g,h,i)perylene
Concen: 0.389 ng
RT: 26.199 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 8859

Ion	Ratio	Lower	Upper
276	100		
277	25.1	22.7	34.1
138	13.1	9.4	14.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037386.D
Acq On : 26 Jun 2025 10:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 26 16:03:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:02:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.560	152	2183	0.400	ng		0.00
7) Naphthalene-d8	10.340	136	4628	0.400	ng		0.00
13) Acenaphthene-d10	14.213	164	2945	0.400	ng		0.00
19) Phenanthrene-d10	16.971	188	5811	0.400	ng		0.01
29) Chrysene-d12	21.171	240	5498	0.400	ng		0.00
35) Perylene-d12	23.348	264	5798	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.163	112	421	0.100	ng		0.00
5) Phenol-d6	6.744	99	362	0.083	ng		0.00
8) Nitrobenzene-d5	8.621	82	95	0.026	ng		-0.10
11) 2-Methylnaphthalene-d10	11.955	152	615	0.086	ng		0.02
14) 2,4,6-Tribromophenol	15.730	330	143	0.083	ng		0.01
15) 2-Fluorobiphenyl	12.843	172	1140	0.090	ng		0.01
27) Fluoranthene-d10	19.008	212	1559	0.094	ng		0.00
31) Terphenyl-d14	19.625	244	1099	0.094	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.104	88	299	0.144	ng	#	85
3) n-Nitrosodimethylamine	3.429	42	207	0.101	ng		88
6) bis(2-Chloroethyl)ether	7.004	93	313	0.081	ng	#	85
9) Naphthalene	10.394	128	1206	0.101	ng	#	86
10) Hexachlorobutadiene	10.682	225	471	0.100	ng	#	98
12) 2-Methylnaphthalene	12.026	142	735	0.090	ng		96
16) Acenaphthylene	13.935	152	1167	0.096	ng		97
17) Acenaphthene	14.277	154	758	0.095	ng		98
18) Fluorene	15.272	166	1063	0.094	ng		100
20) 4,6-Dinitro-2-methylph...	15.389	198	81	0.054	ng	#	1
21) 4-Bromophenyl-phenylether	16.177	248	383	0.093	ng	#	93
22) Hexachlorobenzene	16.276	284	450	0.102	ng		98
23) Atrazine	16.462	200	291	0.090	ng	#	73
24) Pentachlorophenol	16.636	266	262	0.110	ng		95
25) Phenanthrene	17.009	178	1534	0.094	ng		97
26) Anthracene	17.108	178	1358	0.090	ng		100
28) Fluoranthene	19.040	202	2001	0.096	ng		99
30) Pyrene	19.402	202	2006	0.096	ng		99
32) Benzo(a)anthracene	21.153	228	1579	0.091	ng		92
33) Chrysene	21.198	228	2241	0.105	ng		94
34) Bis(2-ethylhexyl)phtha...	21.090	149	839	0.123	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.535	276	2156	0.088	ng	#	90
37) Benzo(b)fluoranthene	22.699	252	1927	0.094	ng	#	66
38) Benzo(k)fluoranthene	22.740	252	2041	0.093	ng	#	61
39) Benzo(a)pyrene	23.254	252	1755	0.097	ng	#	52
40) Dibenzo(a,h)anthracene	25.567	278	1522	0.081	ng	#	41
41) Benzo(g,h,i)perylene	26.193	276	2066	0.092	ng	#	87

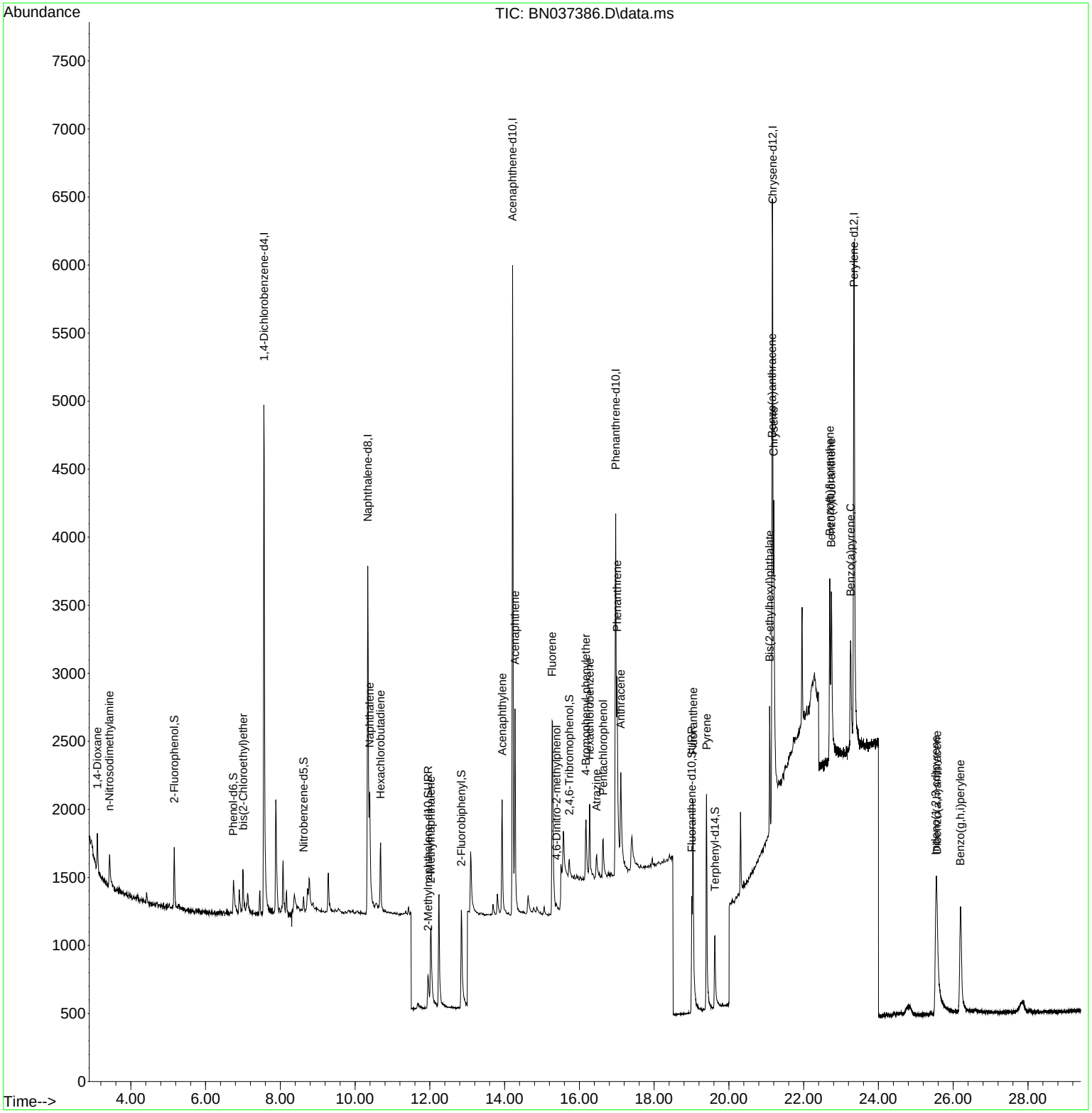
(#) = qualifier out of range (m) = manual integration (+) = signals summed

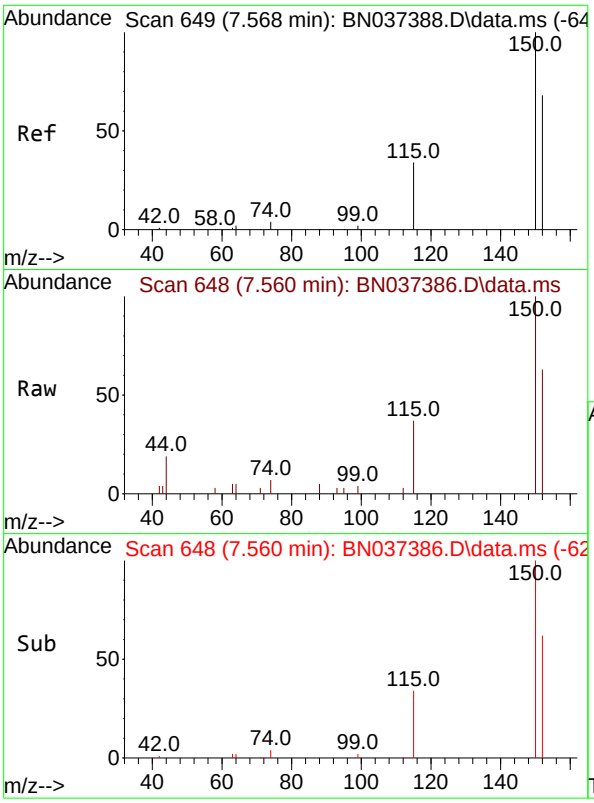
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037386.D
Acq On : 26 Jun 2025 10:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 26 16:03:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:02:41 2025
Response via : Initial Calibration



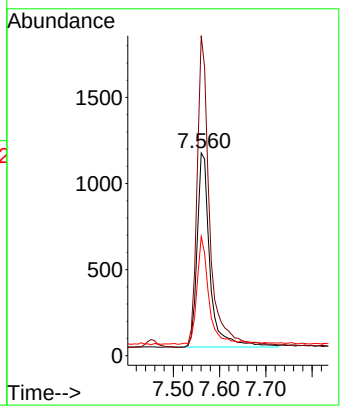


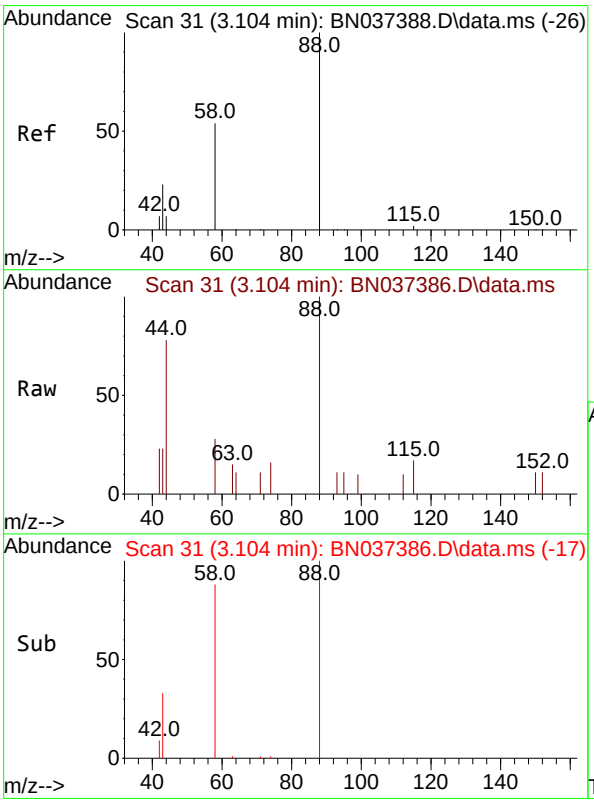
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2183

Ion	Ratio	Lower	Upper
152	100		
150	157.8	116.2	174.2
115	58.7	42.9	64.3

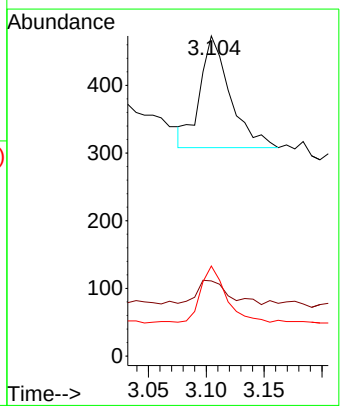


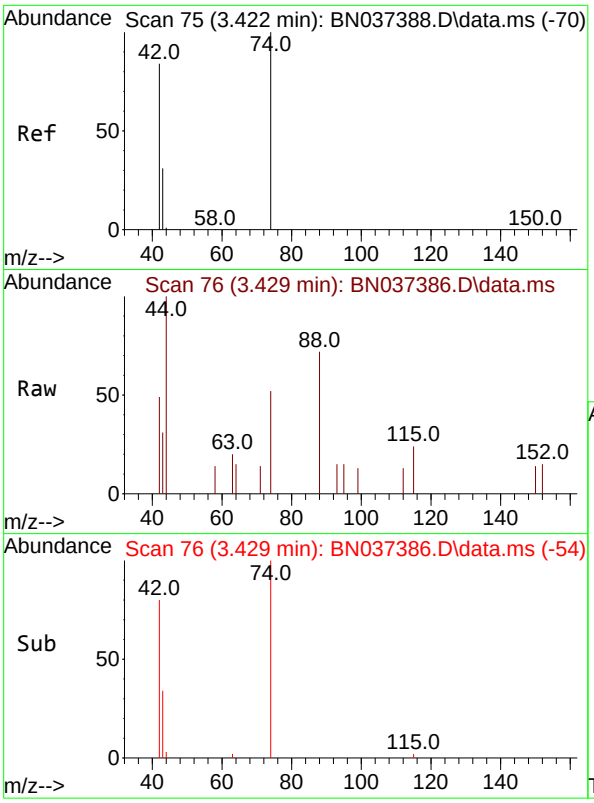


#2
1,4-Dioxane
Concen: 0.144 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 88 Resp: 299

Ion	Ratio	Lower	Upper
88	100		
43	23.1	21.6	32.4
58	44.1	45.9	68.9#



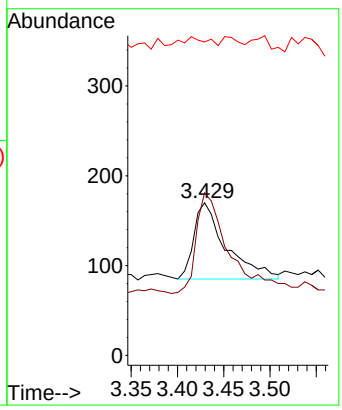


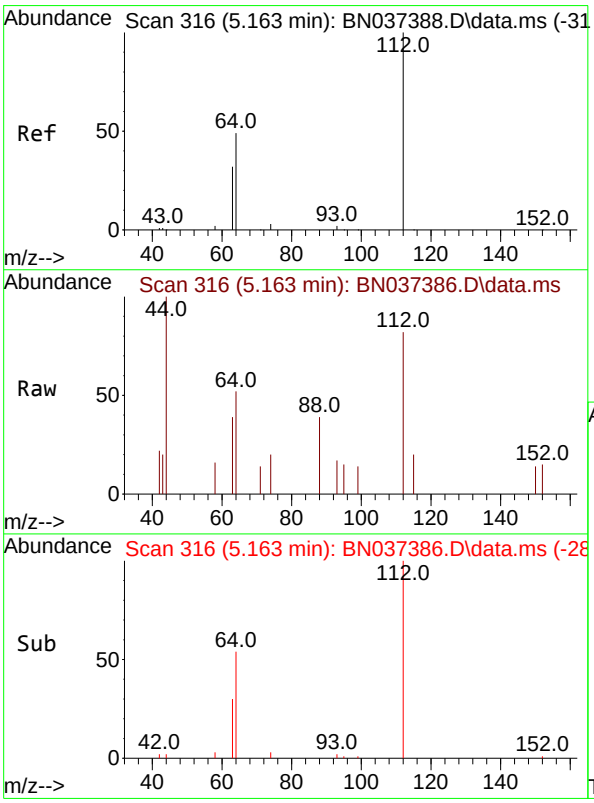
#3
n-Nitrosodimethylamine
Concen: 0.101 ng
RT: 3.429 min Scan# 7
Delta R.T. 0.007 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 207

Ion	Ratio	Lower	Upper
42	100		
74	136.2	97.8	146.8
44	11.6	8.7	13.1

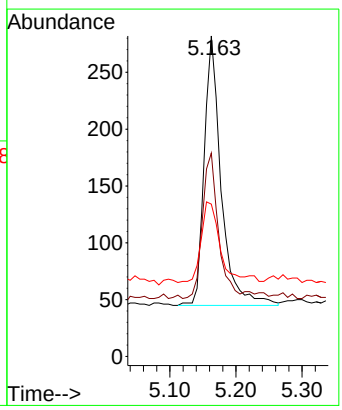


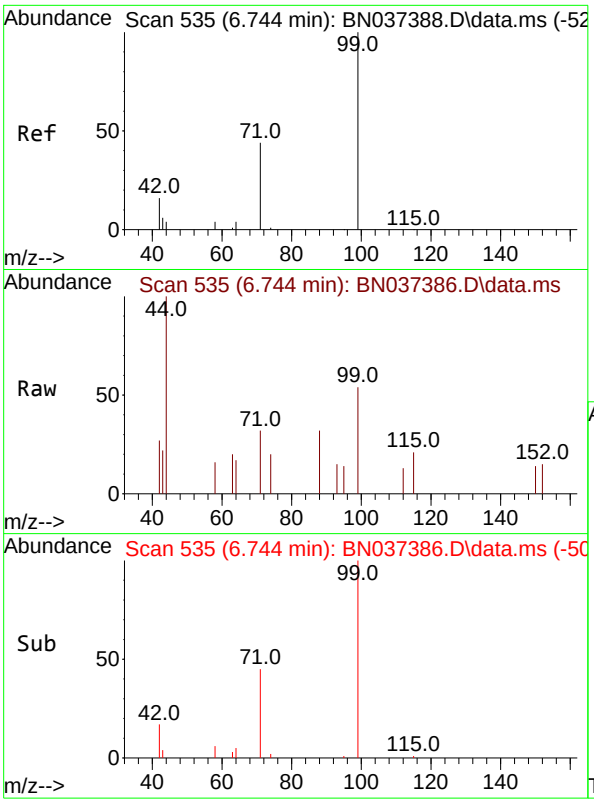


#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:112 Resp: 421

Ion	Ratio	Lower	Upper
112	100		
64	50.6	40.3	60.5
63	34.0	26.1	39.1



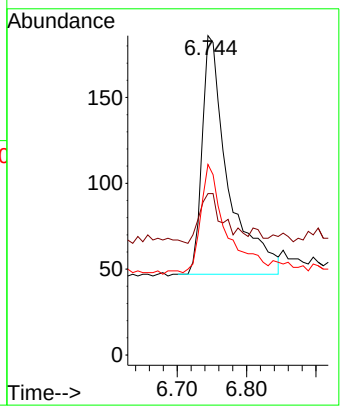


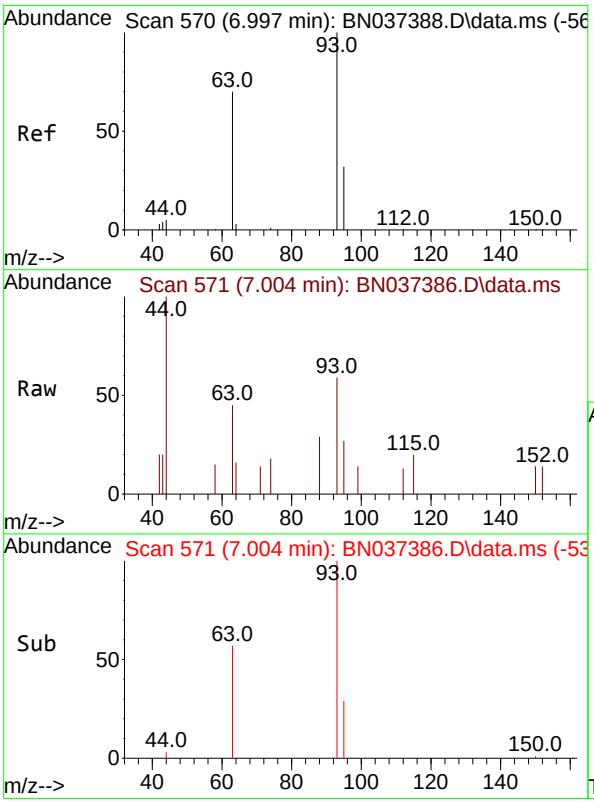
#5
Phenol-d6
Concen: 0.083 ng
RT: 6.744 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 362

Ion	Ratio	Lower	Upper
99	100		
42	19.6	15.6	23.4
71	43.6	35.8	53.8

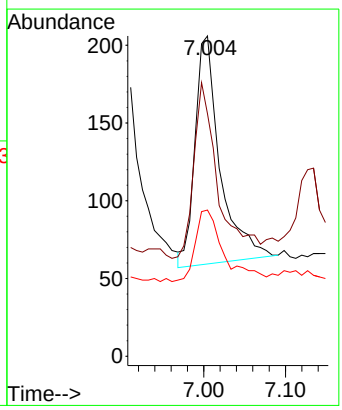


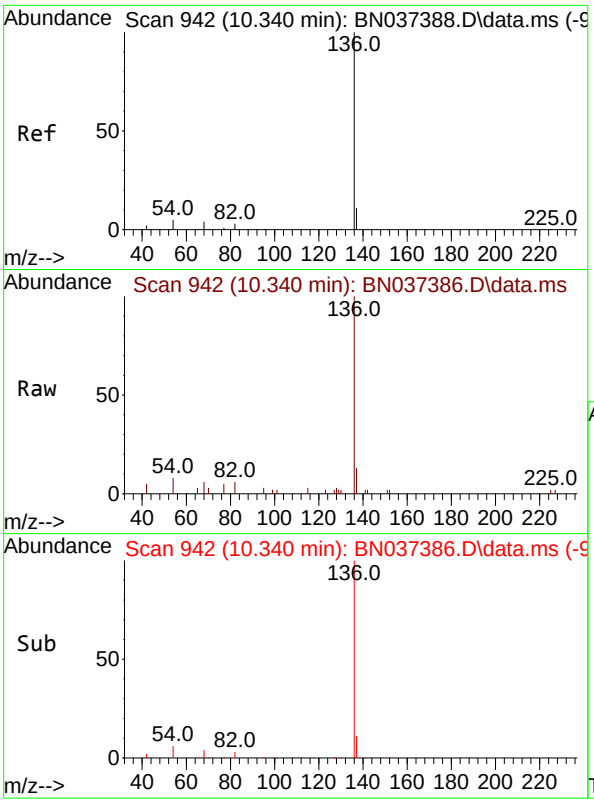


#6
bis(2-Chloroethyl)ether
Concen: 0.081 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 93 Resp: 313

Ion	Ratio	Lower	Upper
93	100		
63	75.1	49.6	74.4#
95	35.5	23.9	35.9



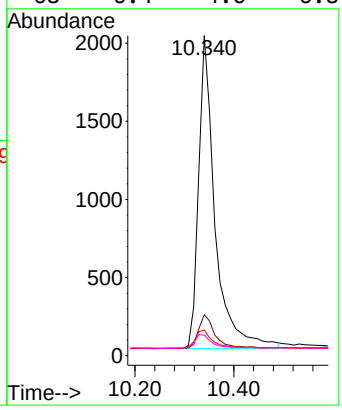


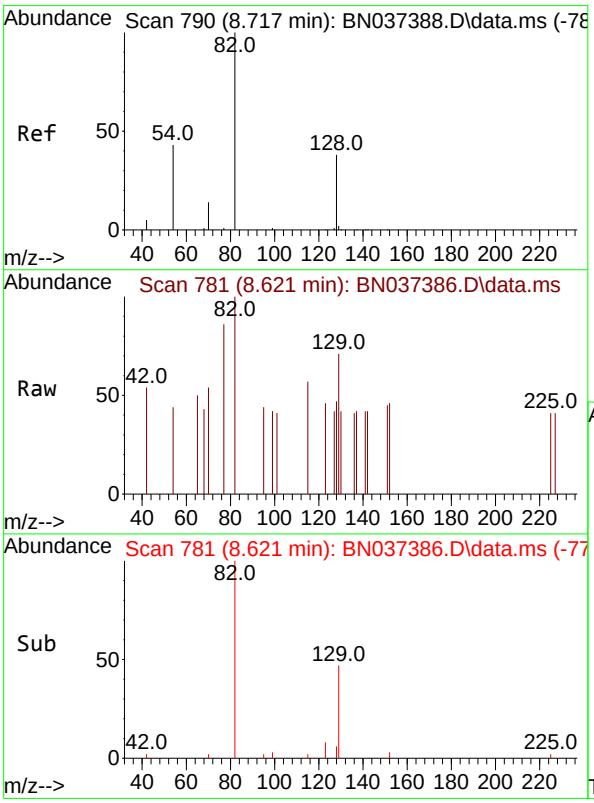
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 4628

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	8.0	5.6	8.4
68	6.4	4.6	6.8

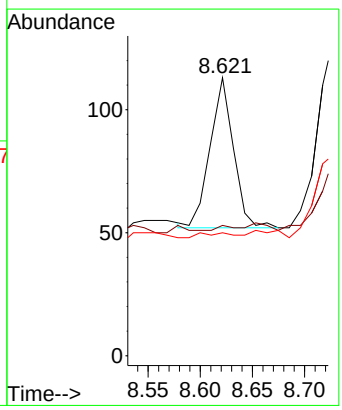


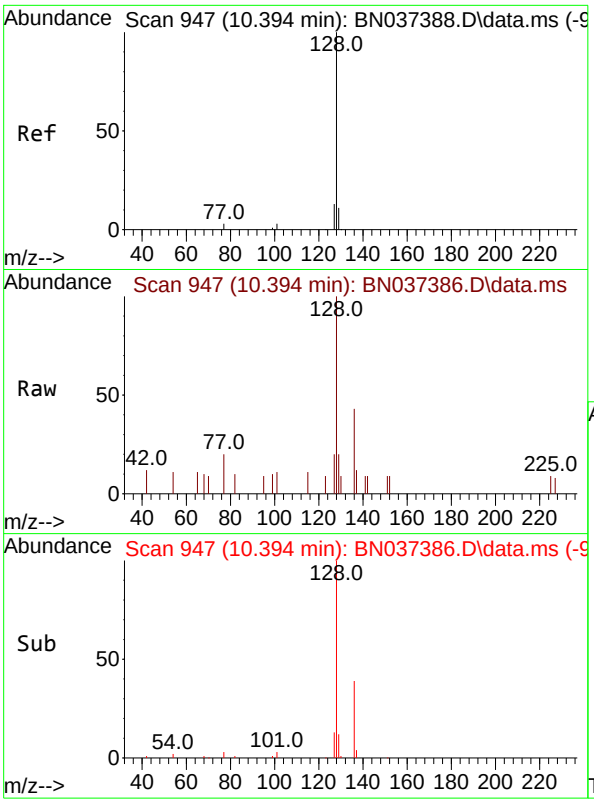


#8
Nitrobenzene-d5
Concen: 0.026 ng
RT: 8.621 min Scan# 781
Delta R.T. -0.096 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 82 Resp: 95

Ion	Ratio	Lower	Upper
82	100		
128	46.9	34.0	51.0
54	44.2	37.7	56.5



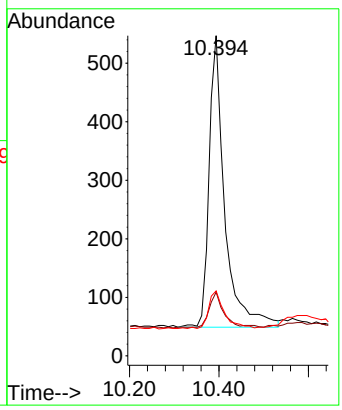


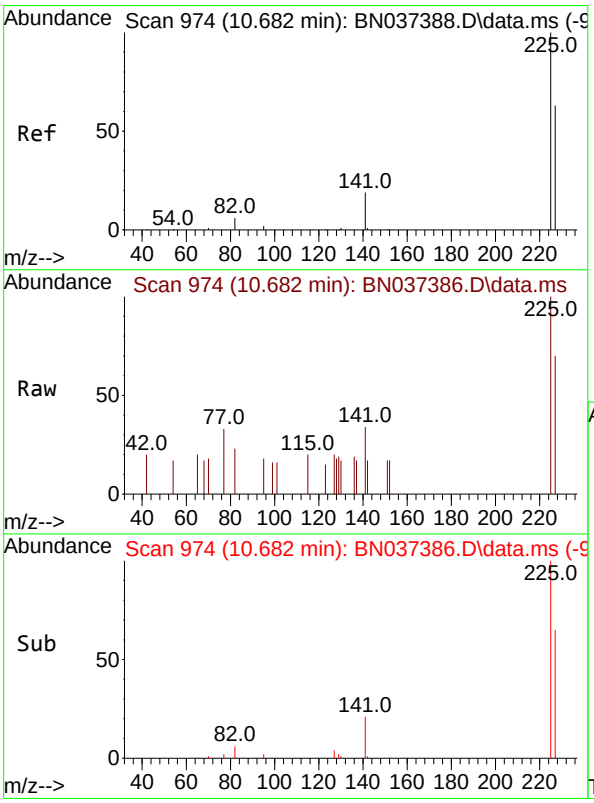
#9
Naphthalene
Concen: 0.101 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1206

Ion	Ratio	Lower	Upper
128	100		
129	19.9	10.4	15.6#
127	20.3	12.2	18.4#

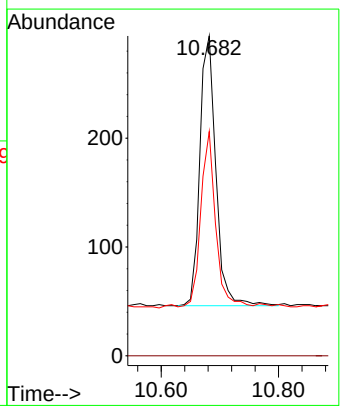


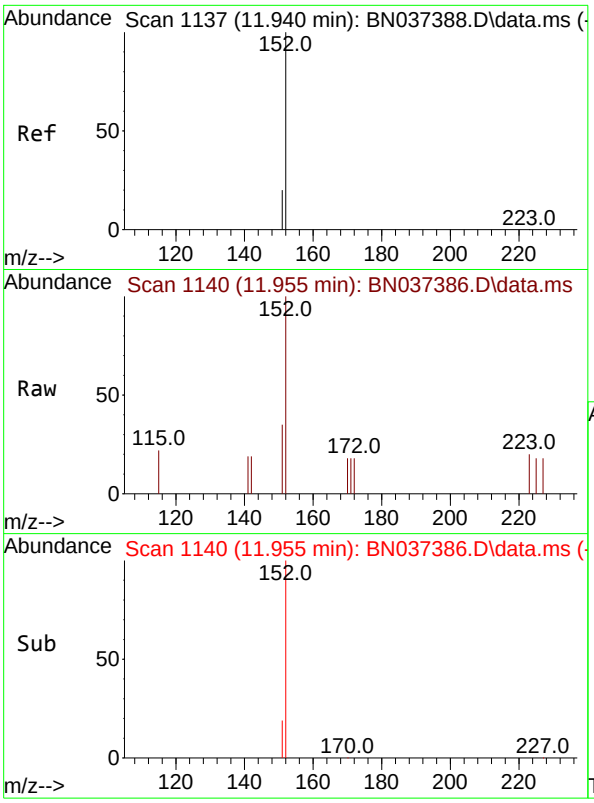


#10
Hexachlorobutadiene
Concen: 0.100 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:225 Resp: 471

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	60.7	49.9	74.9



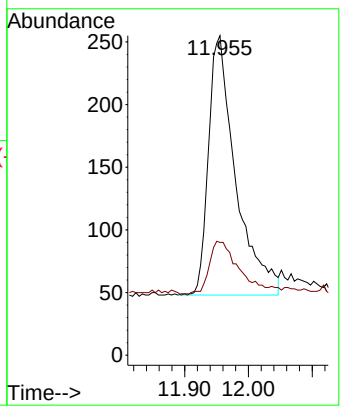


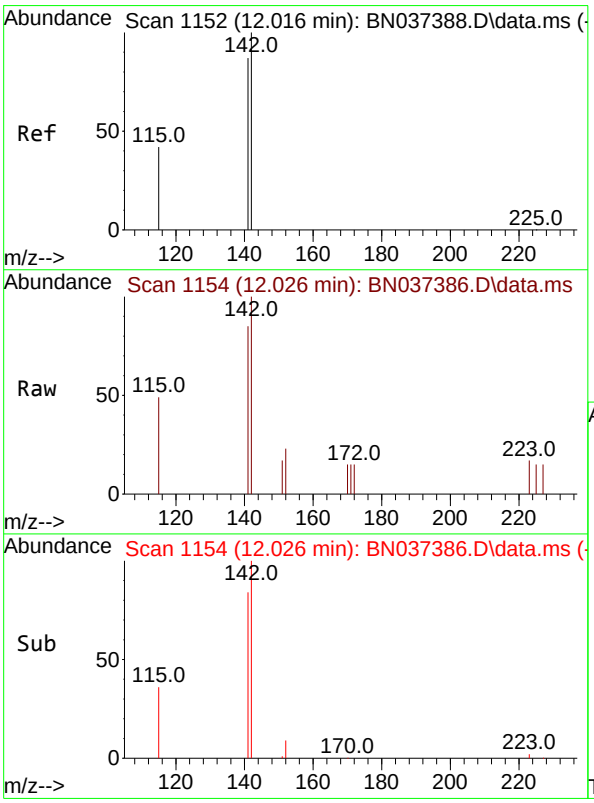
#11
2-Methylnaphthalene-d10
Concen: 0.086 ng
RT: 11.955 min Scan# 11
Delta R.T. 0.015 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 615

Ion	Ratio	Lower	Upper
152	100		
151	22.9	18.4	27.6

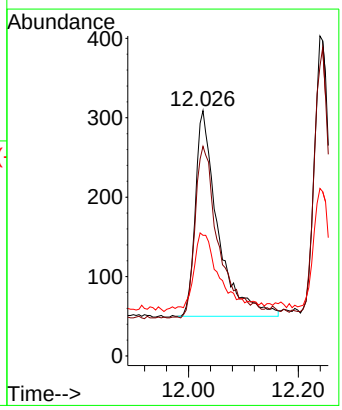


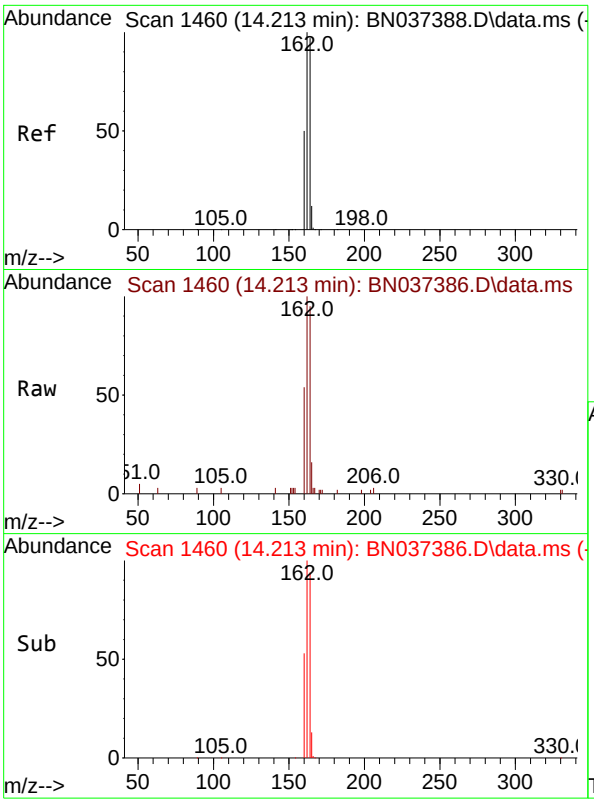


#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:142 Resp: 735

Ion	Ratio	Lower	Upper
142	100		
141	85.4	70.1	105.1
115	49.2	35.8	53.6



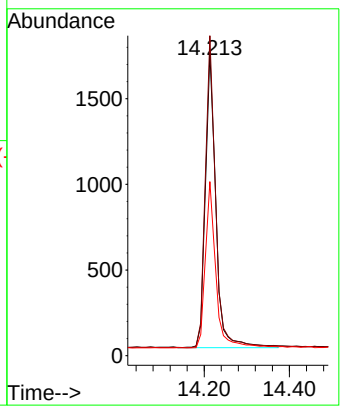


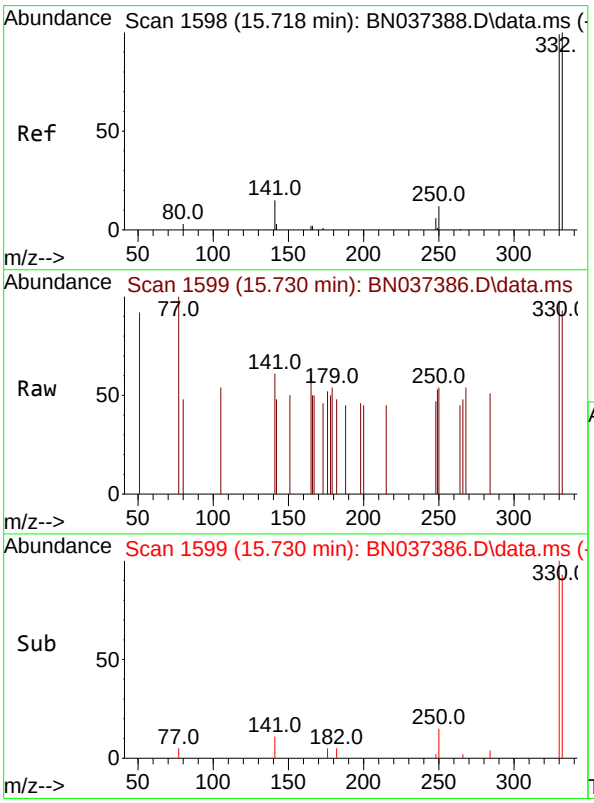
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 2945

Ion	Ratio	Lower	Upper
164	100		
162	105.7	82.6	123.8
160	57.5	42.2	63.2

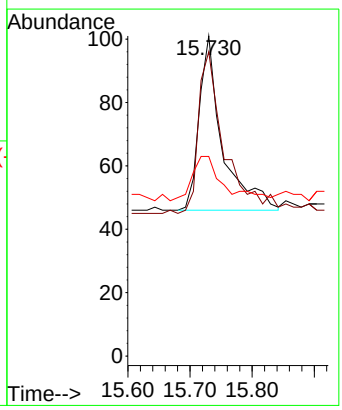


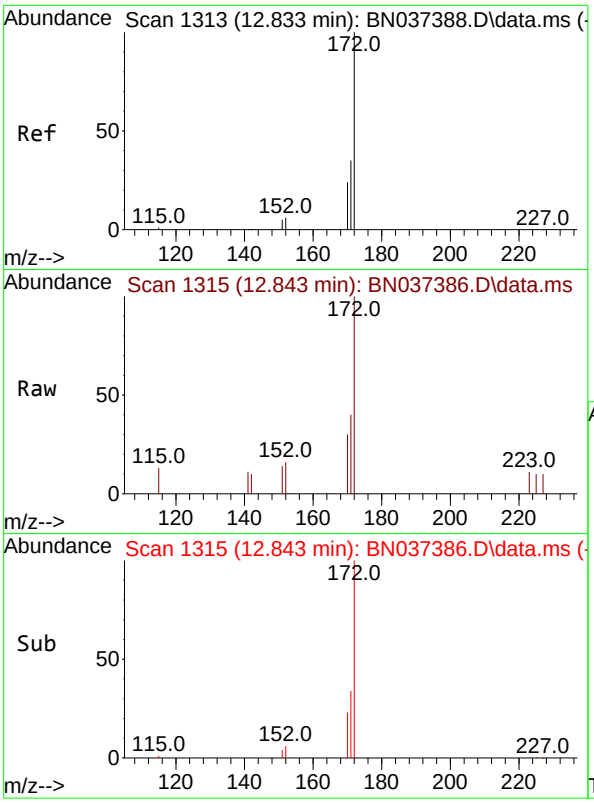


#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:330 Resp: 143

Ion	Ratio	Lower	Upper
330	100		
332	107.7	77.8	116.8
141	33.6	24.0	36.0



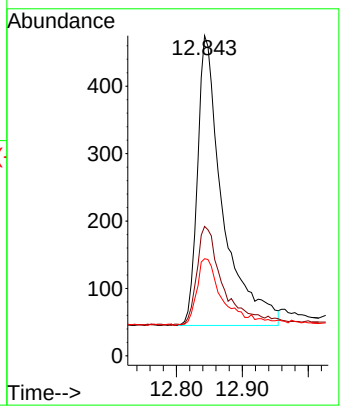


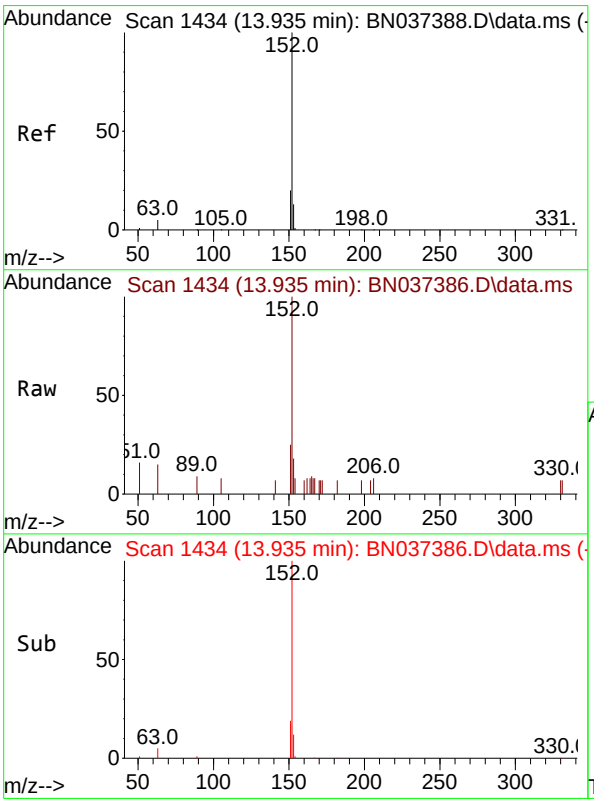
#15
2-Fluorobiphenyl
Concen: 0.090 ng
RT: 12.843 min Scan# 1
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1140

Ion	Ratio	Lower	Upper
172	100		
171	40.4	28.8	43.2
170	30.3	20.3	30.5

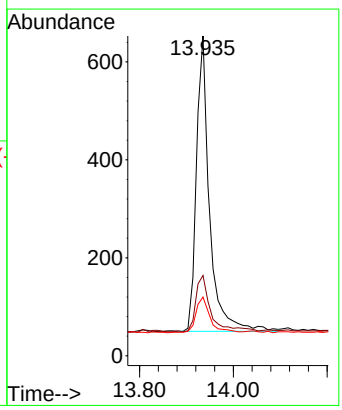


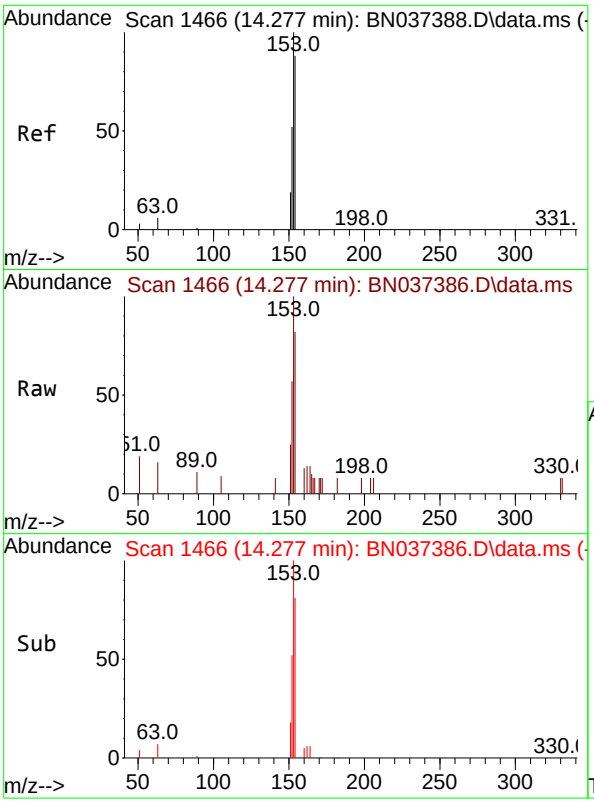


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:152 Resp: 1167

Ion	Ratio	Lower	Upper
152	100		
151	21.9	15.8	23.6
153	13.1	10.3	15.5



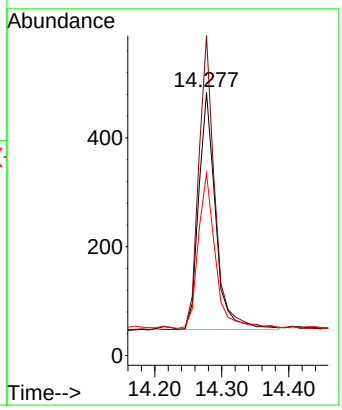


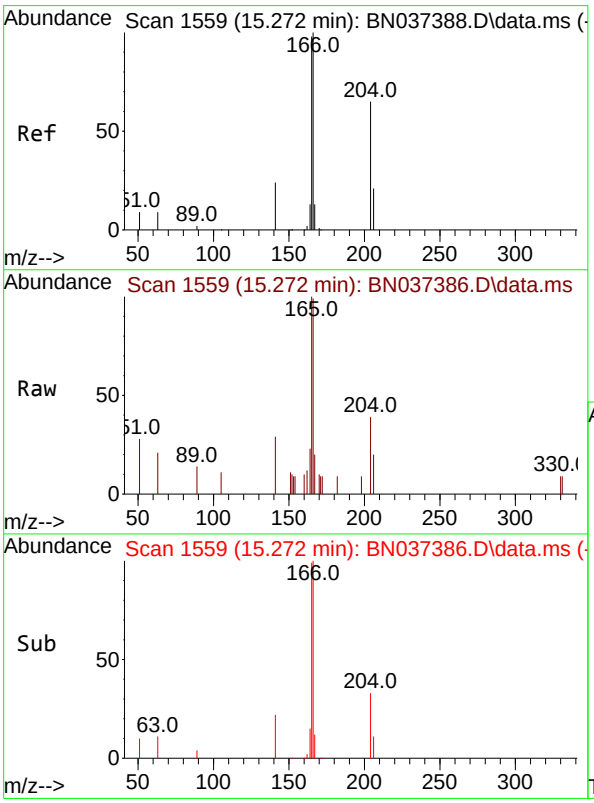
#17
Acenaphthene
Concen: 0.095 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 758

Ion	Ratio	Lower	Upper
154	100		
153	119.4	94.6	141.8
152	66.6	50.2	75.2

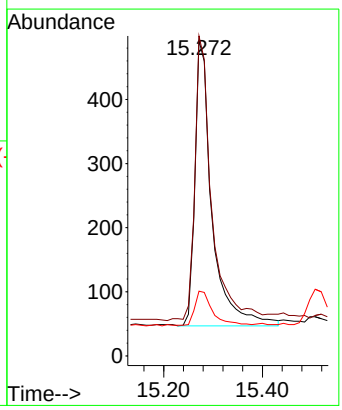


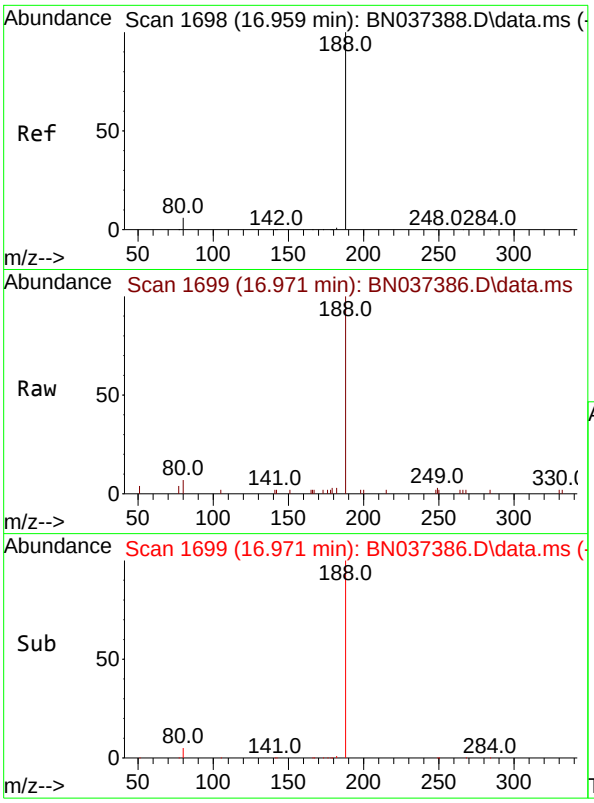


#18
Fluorene
Concen: 0.094 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:166 Resp: 1063

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.4	119.2
167	12.2	10.6	15.8



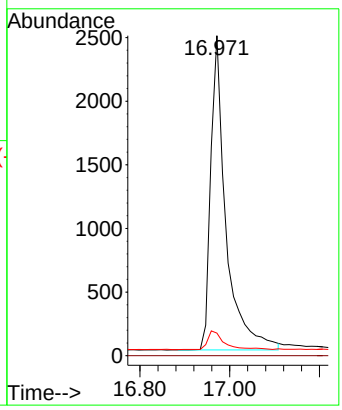


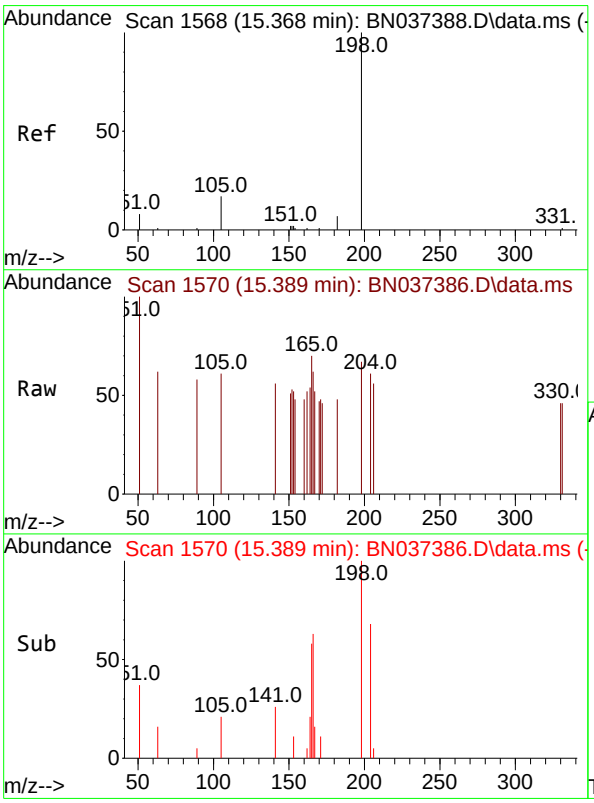
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 5811

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.1	6.2	9.4

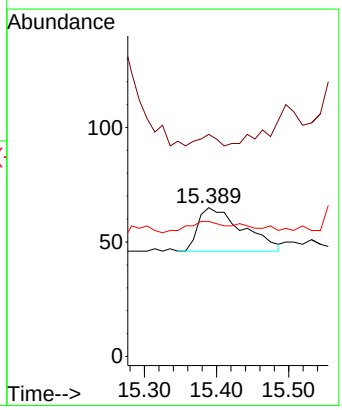


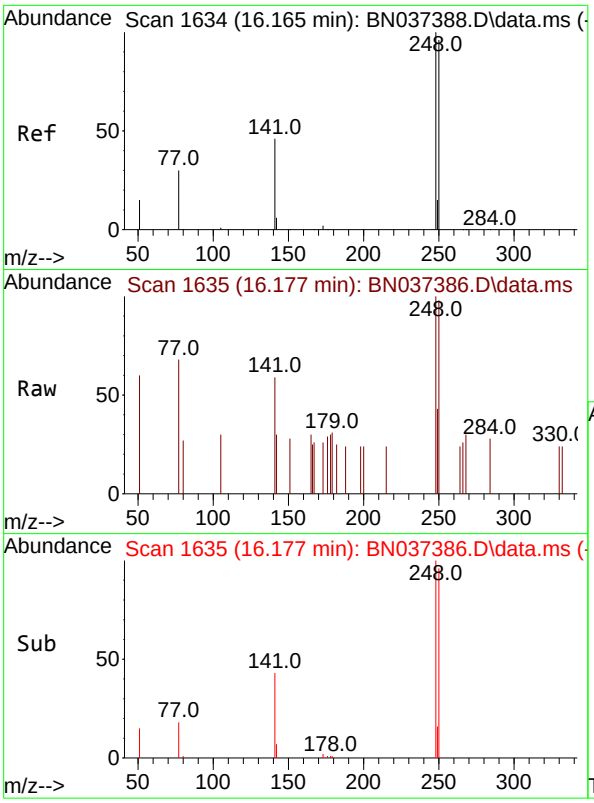


#20
4,6-Dinitro-2-methylphenol
Concen: 0.054 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.021 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:198 Resp: 81

Ion	Ratio	Lower	Upper
198	100		
51	149.2	38.8	58.2#
105	90.8	29.8	44.6#



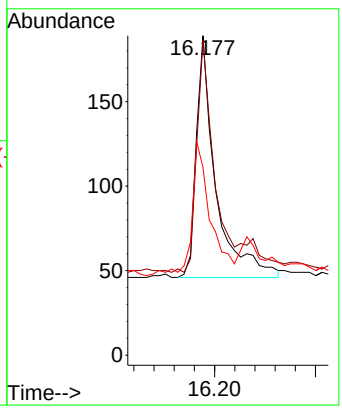


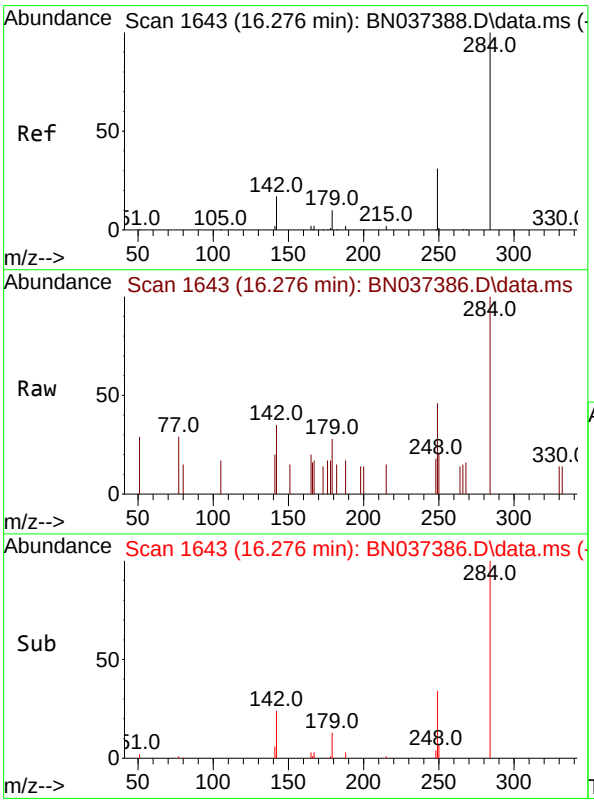
#21
4-Bromophenyl-phenylether
Concen: 0.093 ng
RT: 16.177 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 383

Ion	Ratio	Lower	Upper
248	100		
250	98.4	77.0	115.4
141	58.7	38.7	58.1#

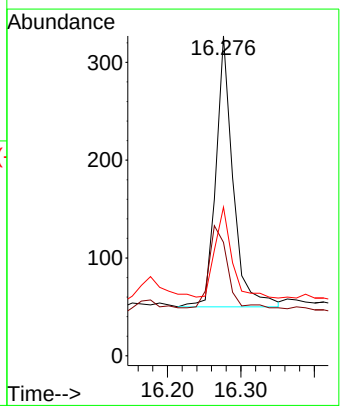


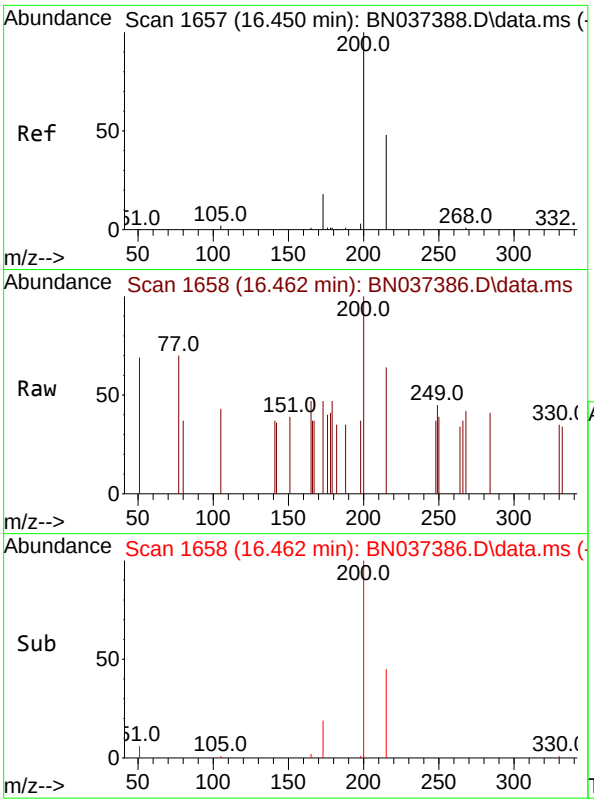


#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:284 Resp: 450

Ion	Ratio	Lower	Upper
284	100		
142	34.4	27.2	40.8
249	35.1	26.7	40.1



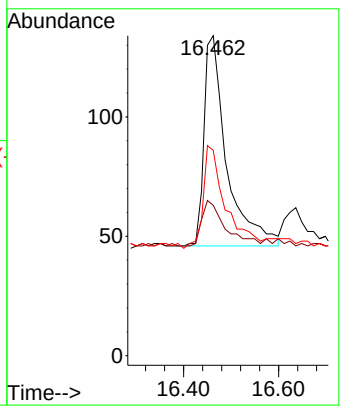


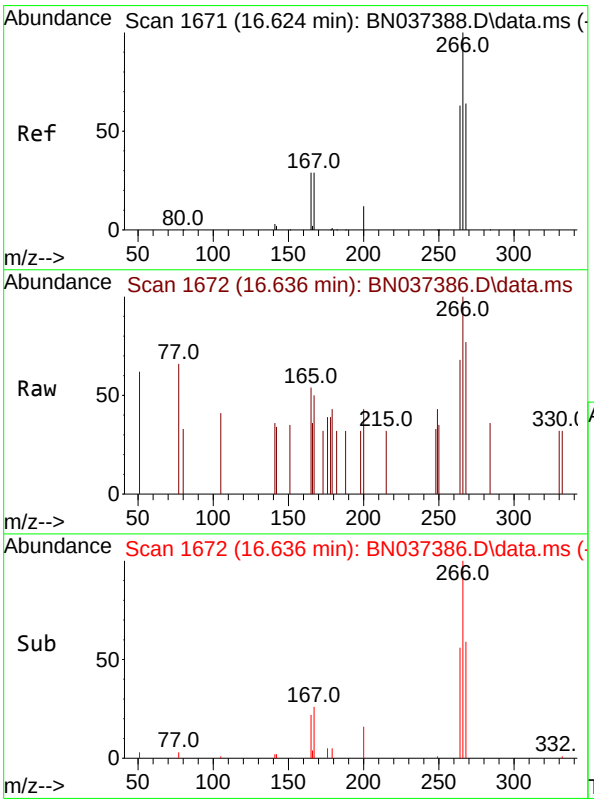
#23
Atrazine
Concen: 0.090 ng
RT: 16.462 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 291

Ion	Ratio	Lower	Upper
200	100		
173	47.0	19.0	28.6#
215	64.2	41.3	61.9#

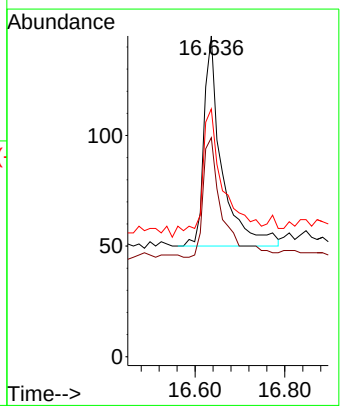


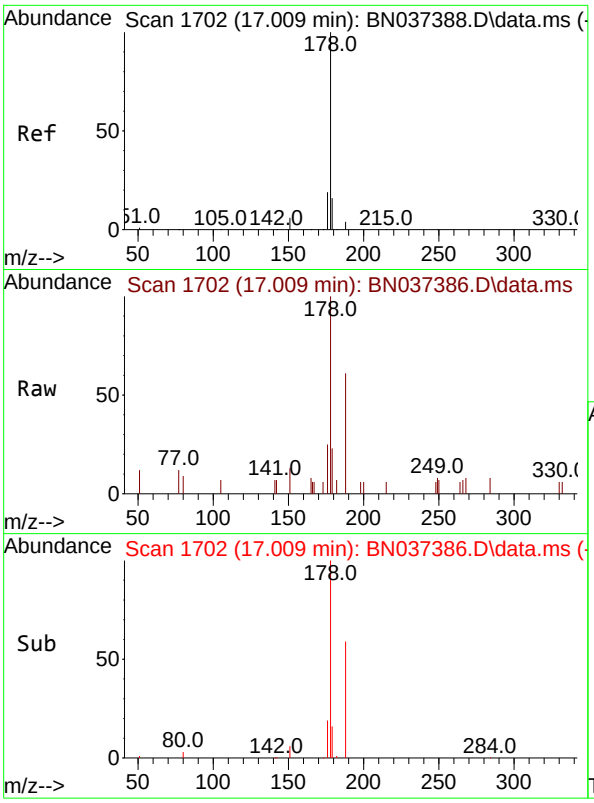


#24
Pentachlorophenol
Concen: 0.110 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:266 Resp: 262

Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.2	73.8
268	75.2	54.2	81.4



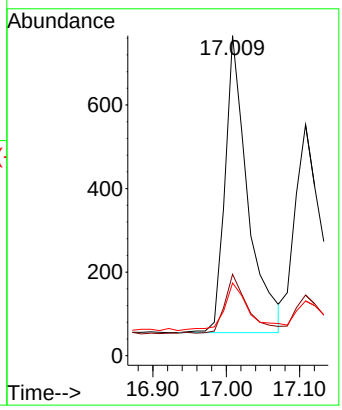


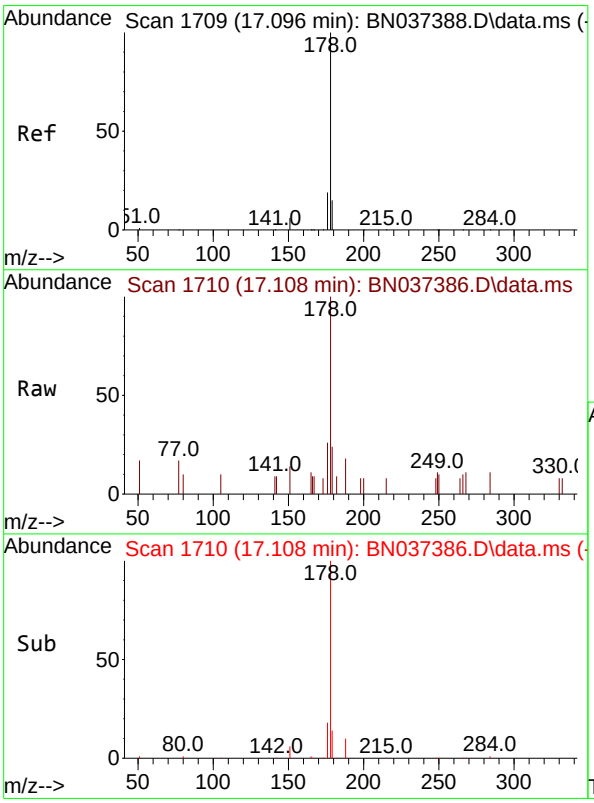
#25
Phenanthrene
Concen: 0.094 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 1534

Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.6	23.4
179	17.4	12.8	19.2

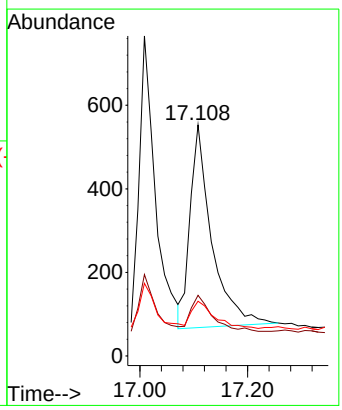


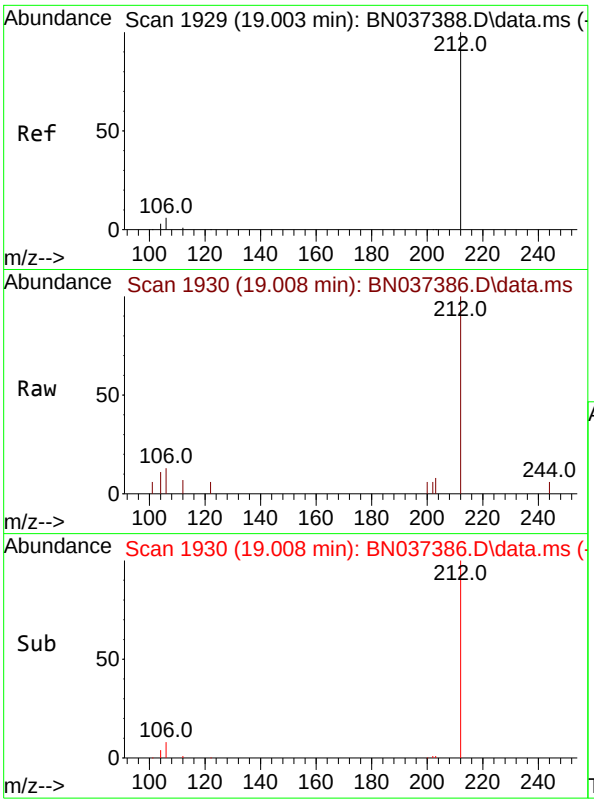


#26
Anthracene
Concen: 0.090 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:178 Resp: 1358

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.2	12.4	18.6



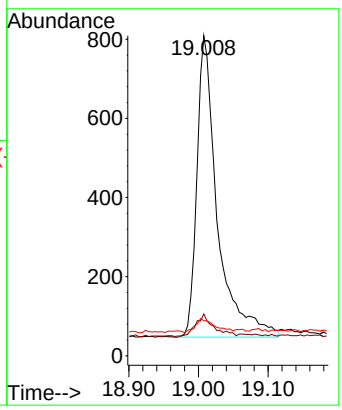


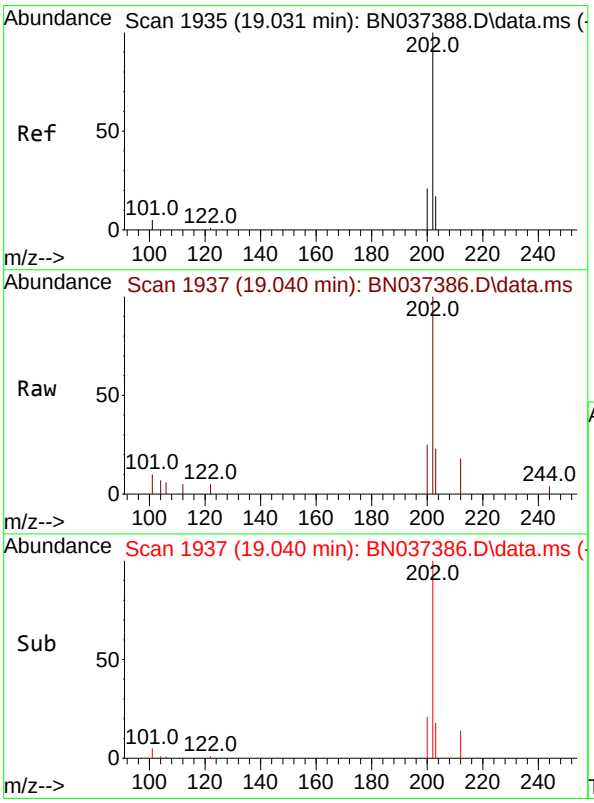
#27
Fluoranthene-d10
Concen: 0.094 ng
RT: 19.008 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 1559

Ion	Ratio	Lower	Upper
212	100		
106	6.3	4.5	6.7
104	4.4	2.7	4.1#

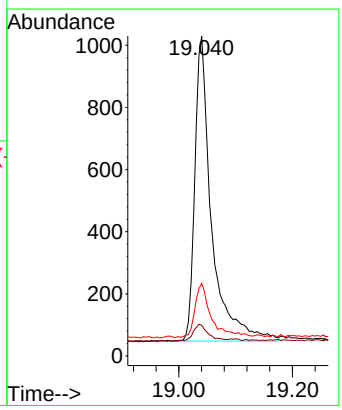


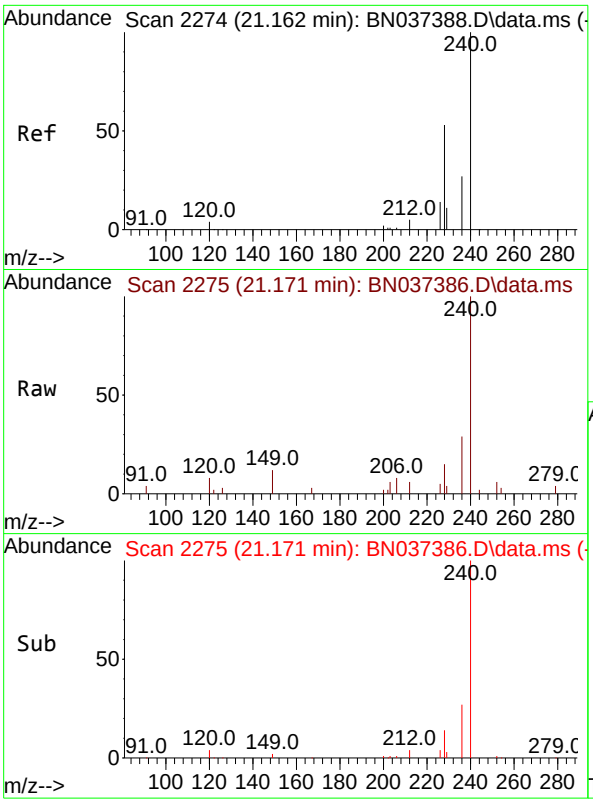


#28
Fluoranthene
Concen: 0.096 ng
RT: 19.040 min Scan# 1937
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:202 Resp: 2001

Ion	Ratio	Lower	Upper
202	100		
101	5.3	3.8	5.6
203	17.4	13.5	20.3



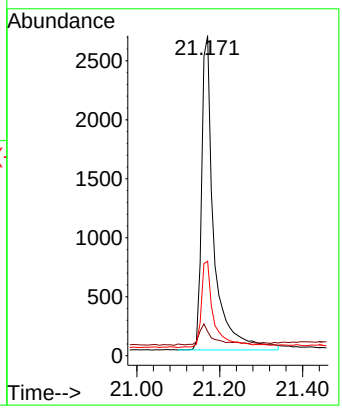


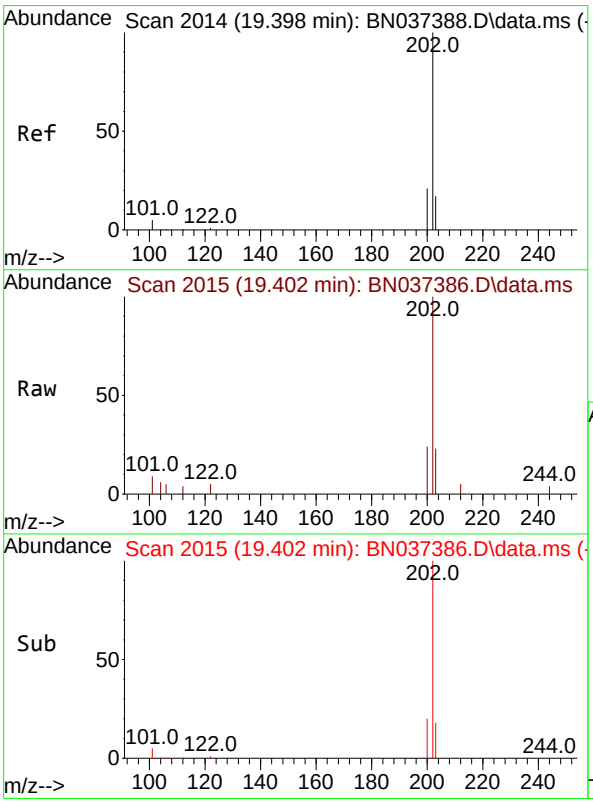
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 5498

Ion	Ratio	Lower	Upper
240	100		
120	7.6	5.3	7.9
236	29.5	22.7	34.1

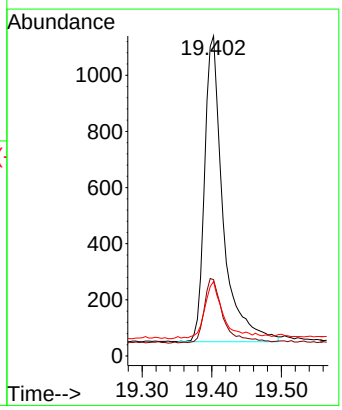


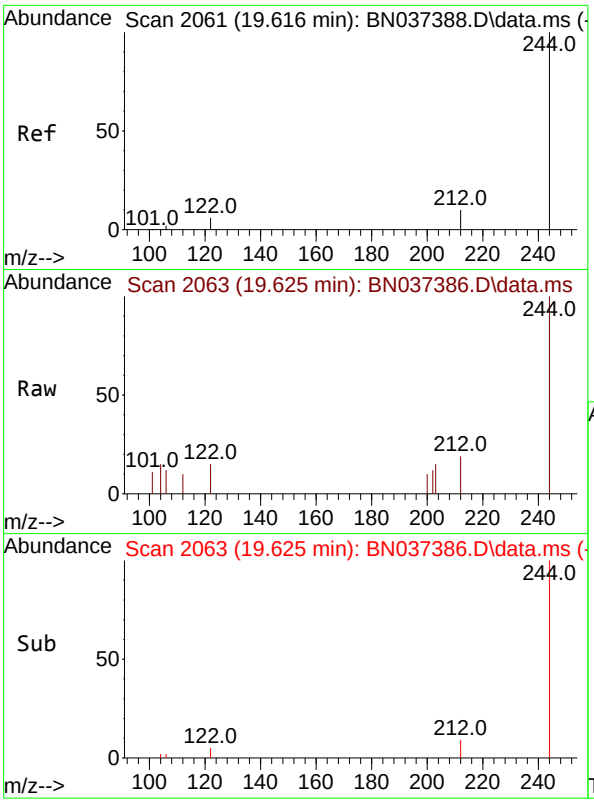


#30
Pyrene
Concen: 0.096 ng
RT: 19.402 min Scan# 2015
Delta R.T. 0.005 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:202 Resp: 2006

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.5	24.7
203	18.0	14.2	21.2



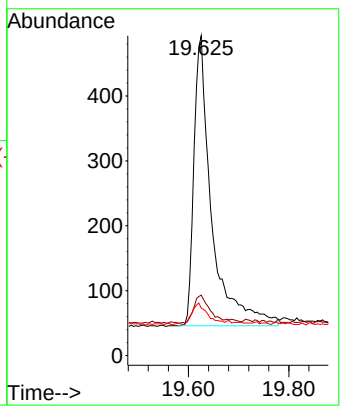


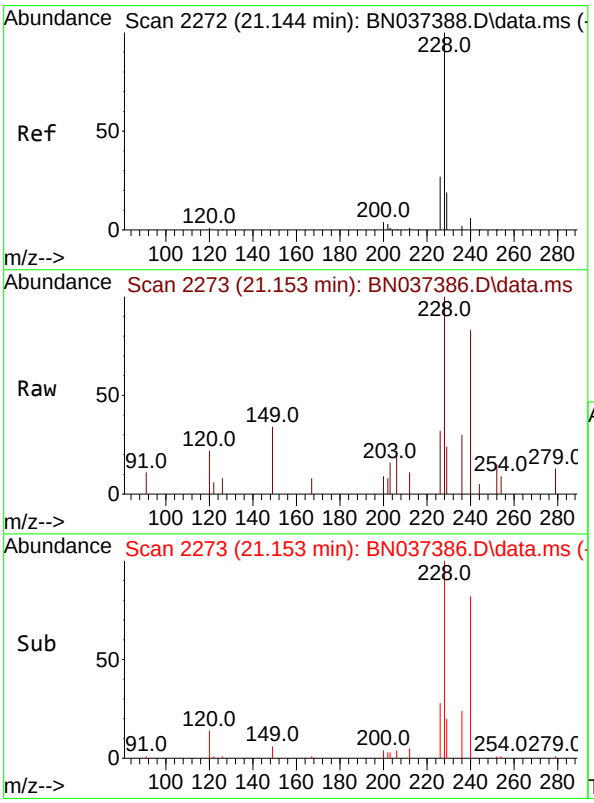
#31
Terphenyl-d14
Concen: 0.094 ng
RT: 19.625 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 1099

Ion	Ratio	Lower	Upper
244	100		
212	18.9	9.1	13.7#
122	14.8	6.3	9.5#

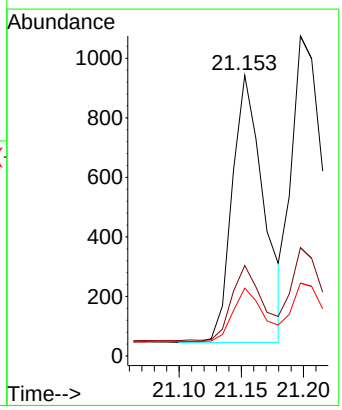


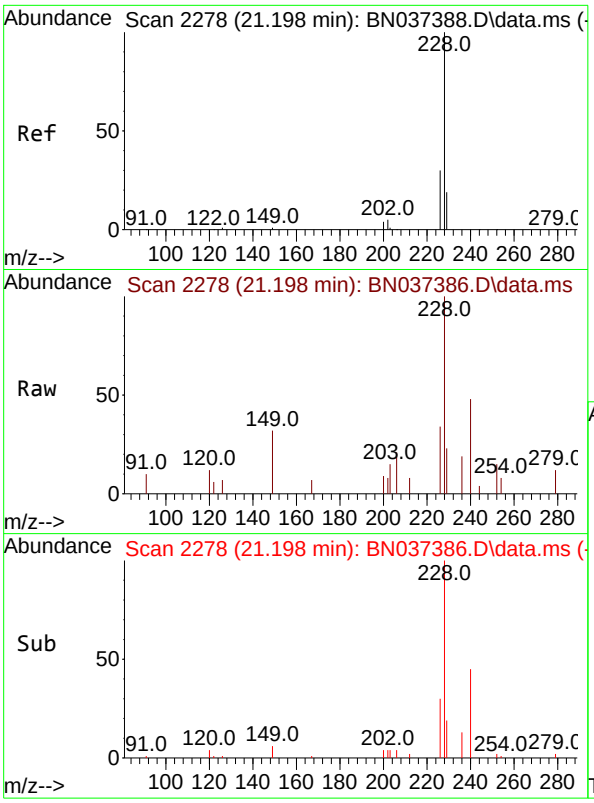


#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:228 Resp: 1579

Ion	Ratio	Lower	Upper
228	100		
226	32.2	22.6	34.0
229	24.2	16.2	24.2



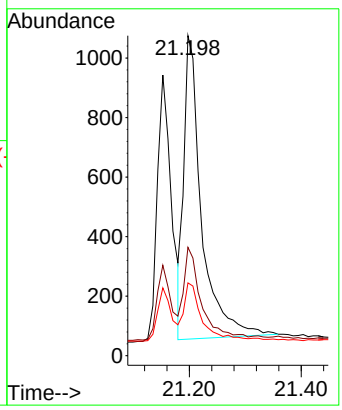


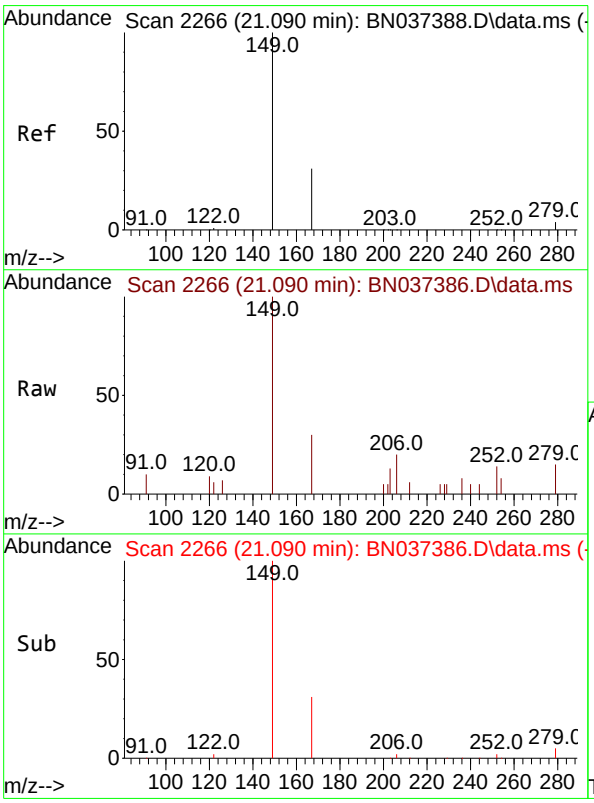
#33
Chrysene
Concen: 0.105 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 2241

Ion	Ratio	Lower	Upper
228	100		
226	33.9	24.5	36.7
229	22.8	16.1	24.1

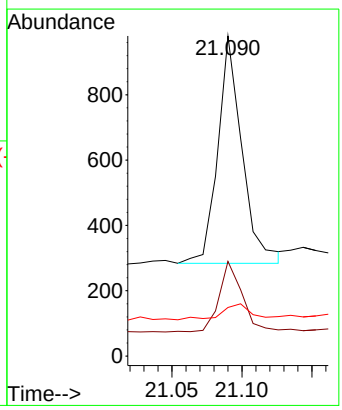


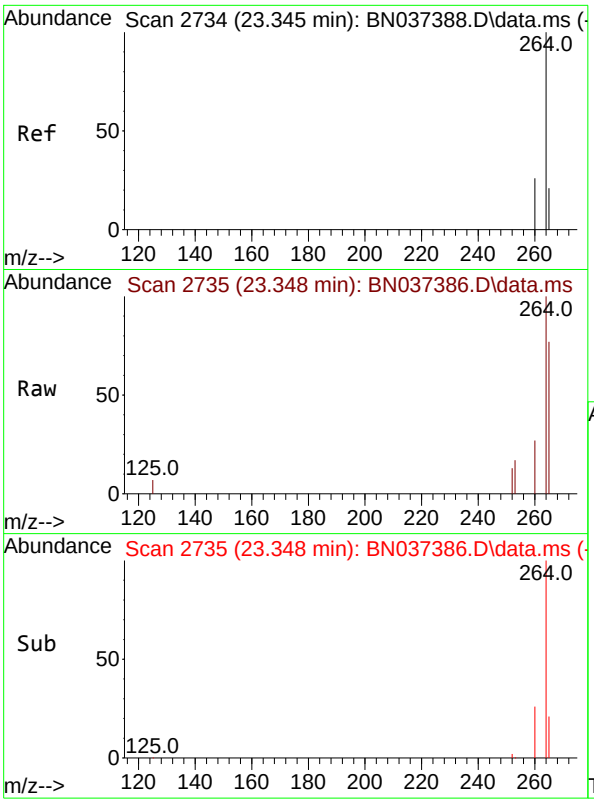


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.123 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:149 Resp: 839

Ion	Ratio	Lower	Upper
149	100		
167	30.3	24.8	37.2
279	8.9	5.0	7.6#



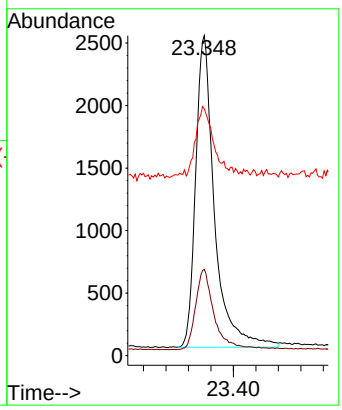


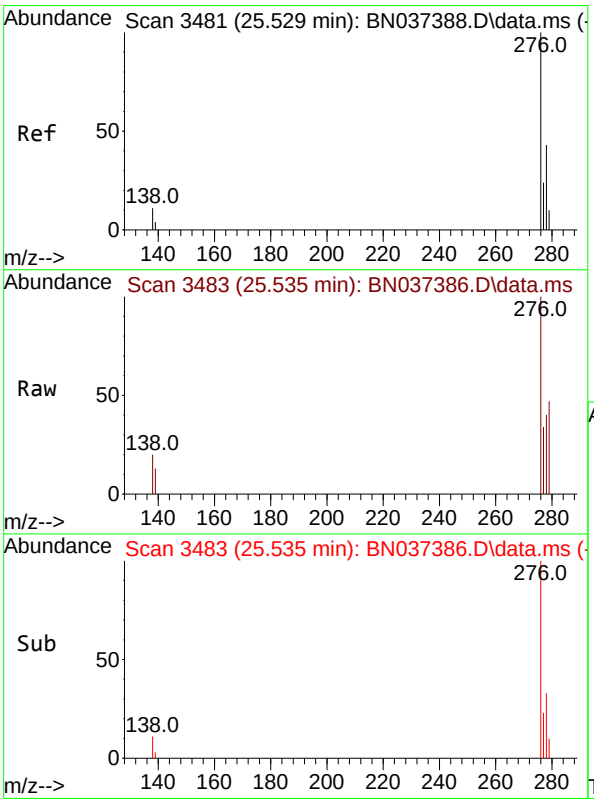
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 5798

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.0
265	77.1	56.2	84.4

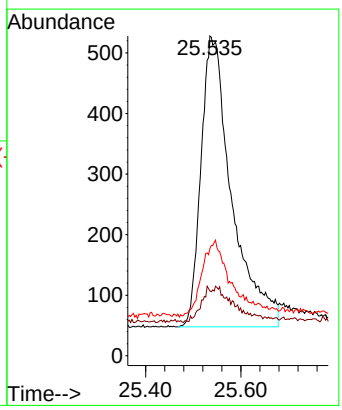


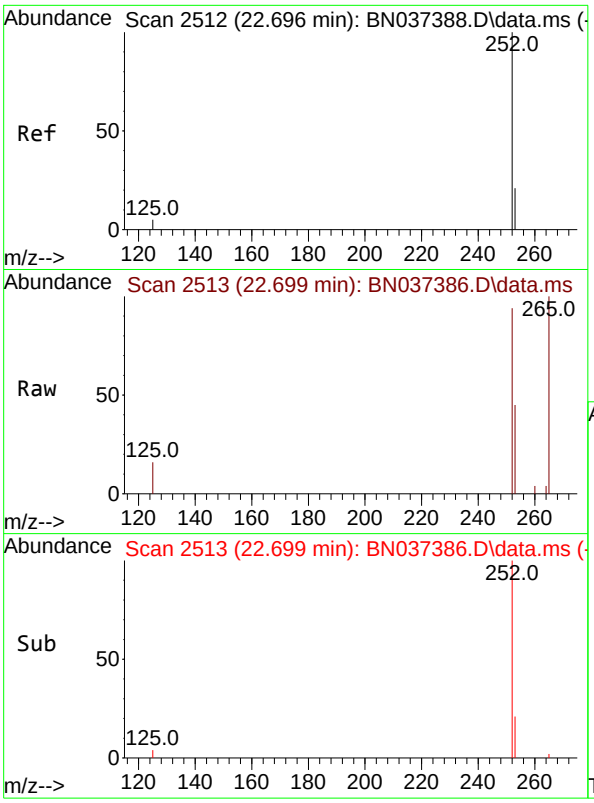


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.535 min Scan# 3483
Delta R.T. 0.006 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:276 Resp: 2156

Ion	Ratio	Lower	Upper
276	100		
138	4.1	8.5	12.7#
277	21.2	19.7	29.5



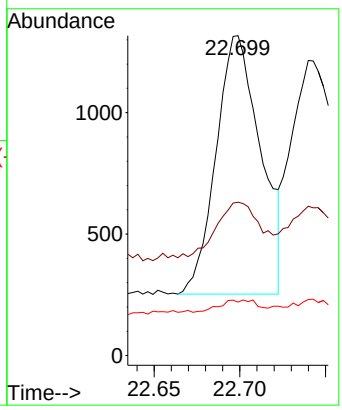


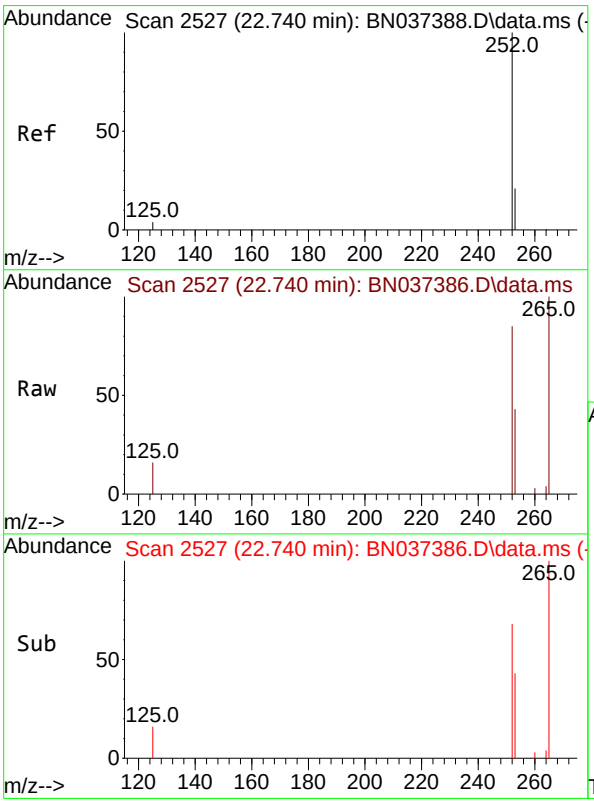
#37
Benzo(b)fluoranthene
Concen: 0.094 ng
RT: 22.699 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 1927

Ion	Ratio	Lower	Upper
252	100		
253	47.9	22.8	34.2#
125	16.7	6.2	9.4#

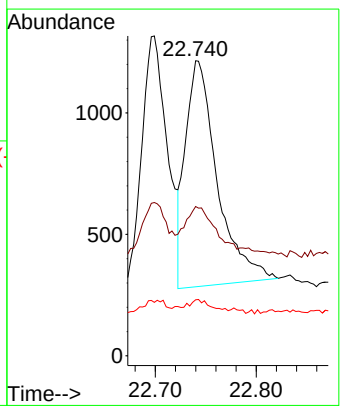


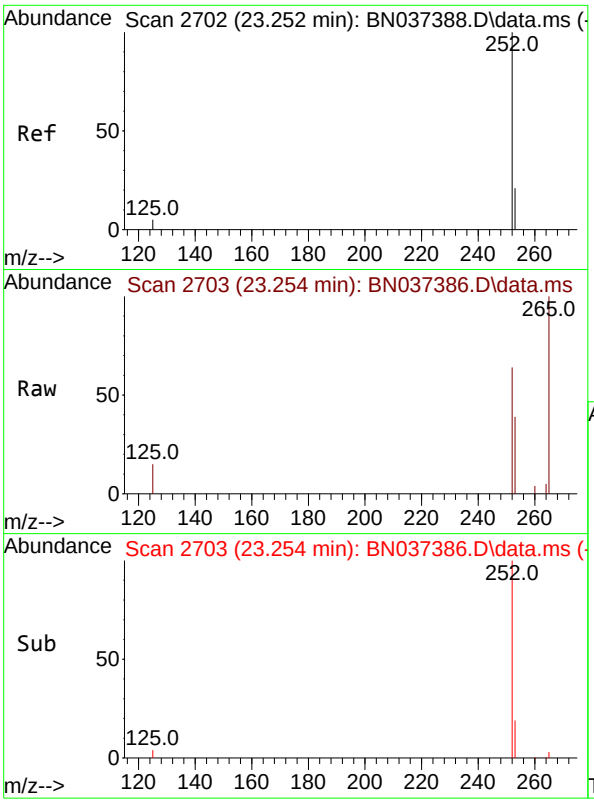


#38
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:252 Resp: 2041

Ion	Ratio	Lower	Upper
252	100		
253	50.6	23.2	34.8#
125	19.0	6.0	9.0#



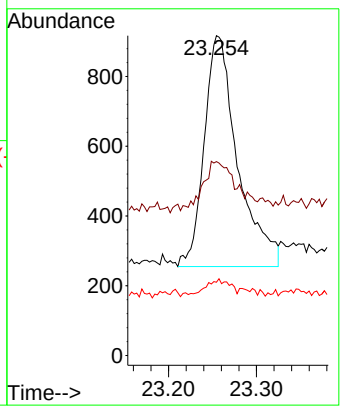


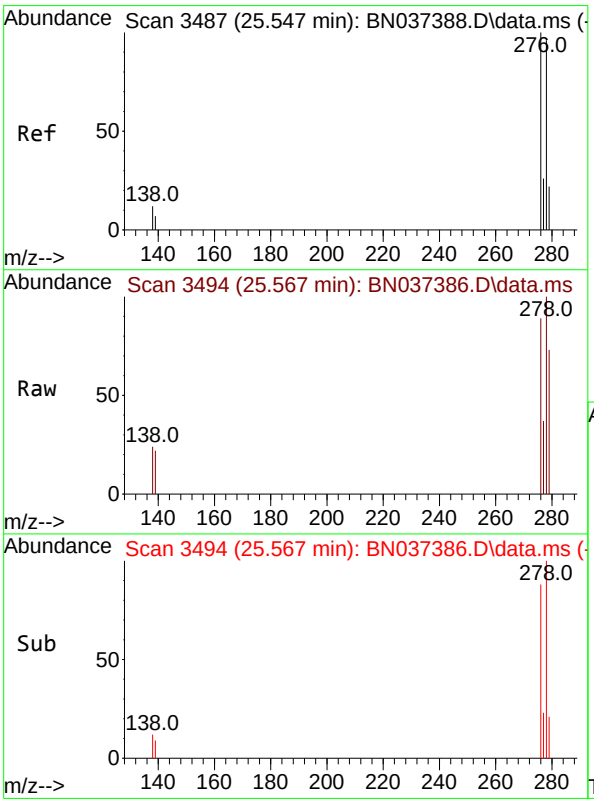
#39
Benzo(a)pyrene
Concen: 0.097 ng
RT: 23.254 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 1755

Ion	Ratio	Lower	Upper
252	100		
253	60.6	25.6	38.4#
125	22.9	7.5	11.3#

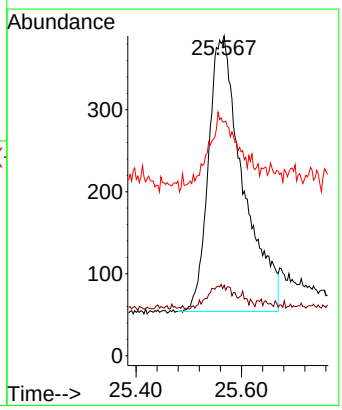


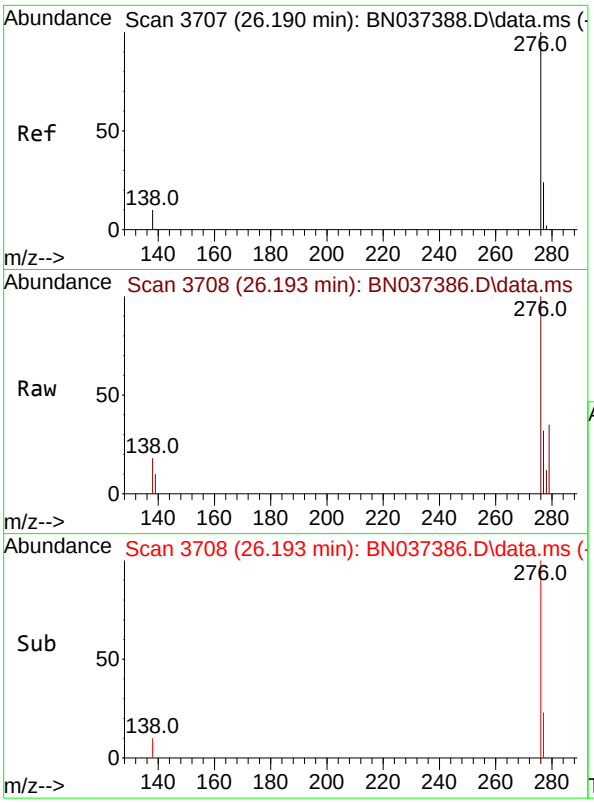


#40
Dibenzo(a,h)anthracene
Concen: 0.081 ng
RT: 25.567 min Scan# 3494
Delta R.T. 0.020 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:278 Resp: 1522

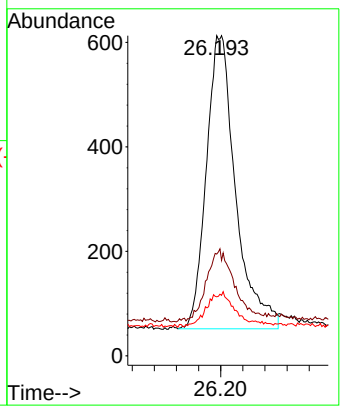
Ion	Ratio	Lower	Upper
278	100		
139	22.1	8.5	12.7#
279	73.1	27.5	41.3#





#41
Benzo(g,h,i)perylene
Concen: 0.092 ng
RT: 26.193 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 2066

Ion	Ratio	Lower	Upper
276	100		
277	31.8	21.0	31.4#
138	18.4	9.6	14.4#