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Cover Page

Order ID : Q2181

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number	Client Sample Number
Q2181-01	38072-062624
Q2181-02	38073-032124

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: 6/19/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Alliance Technical Group, LLC - Newark
Project Name: NJ Waste Water PT
Project # N/A
Order ID # Q2181
Test Name: SVOCMS Group5

A. Number of Samples and Date of Receipt:
2 Water samples were received on 06/02/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group2 and SVOCMS Group5. This data package contains results for SVOCMS Group5.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group5 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 met the requirements .
The Tuning criteria met requirements.

Sample 38072-062624 was diluted due to high concentration.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points
.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount

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for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

ORDER ID: Q2181 MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements .			
	The Continuous Calibration met the requirements .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria.			
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:			

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:

Sample 38072-062624 was diluted due to high concentration.

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

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

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2181**

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

QA Review Signature: **SOHIL JODHANI** **Date:** **06/19/2025**

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LAB CHRONICLE

OrderID:	Q2181	**OrderDate:**	6/2/2025 2:16:00 PM
Client:	Alliance Technical Group, LLC - Newark	**Project:**	NJ Waste Water PT
Contact:	Mohammad Ahmed	**Location:**	QA Office

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2181-01	**38072-062624**	**Water**			**05/30/25**			**06/02/25**
			SVOCMS Group5	8270-Modified		06/02/25	06/03/25	
Q2181-01DL	**38072-062624DL**	**Water**			**05/30/25**			**06/02/25**
			SVOCMS Group5	8270-Modified		06/02/25	06/03/25	
Q2181-02	**38073-032124**	**Water**			**05/30/25**			**06/02/25**
			SVOCMS Group2	8270E		06/04/25	06/05/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2181

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : 38072-062624								
Q2181-01	38072-062624	WATER	Acenaphthylene	120.000	E	0.04	0.1	ug/L
			Total Svoc :	**120.00**				
			Total Concentration:	**120.00**				
Client ID : 38072-062624DL								
Q2181-01DL	38072-062624DL	WATER	Acenaphthylene	120.000	D	1.9	5	ug/L
			Total Svoc :	**120.00**				
			Total Concentration:	**120.00**				

QC
SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2181

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168238BL	PB168238BL	2-Methylnaphthalene-d10	0.4	0.34	84		20	139
		Fluoranthene-d10	0.4	0.34	84		54	157
		Nitrobenzene-d5	0.4	0.34	85		27	154
		2-Fluorobiphenyl	0.4	0.36	91		30	155
		Terphenyl-d14	0.4	0.37	93		54	175
PB168238BS	PB168238BS	2-Methylnaphthalene-d10	0.4	0.38	96		20	139
		Fluoranthene-d10	0.4	0.30	75		54	157
		Nitrobenzene-d5	0.4	0.36	90		27	154
		2-Fluorobiphenyl	0.4	0.36	90		30	155
		Terphenyl-d14	0.4	0.37	93		54	175
PB168238BSD	PB168238BSD	2-Methylnaphthalene-d10	0.4	0.38	96		20	139
		Fluoranthene-d10	0.4	0.30	74		54	157
		Nitrobenzene-d5	0.4	0.36	90		27	154
		2-Fluorobiphenyl	0.4	0.37	91		30	155
		Terphenyl-d14	0.4	0.36	90		54	175
Q2181-01	38072-062624	2-Methylnaphthalene-d10	0.4	0.39	97		20	139
		Fluoranthene-d10	0.4	0.41	103		54	157
		Nitrobenzene-d5	0.4	0.40	100		27	154
		2-Fluorobiphenyl	0.4	0.38	94		30	155
		Terphenyl-d14	0.4	0.37	93		54	175
Q2181-01DL	38072-062624DL	2-Methylnaphthalene-d10	0.4	0.40	100		20	139
		Fluoranthene-d10	0.4	0.45	113		54	157
		Nitrobenzene-d5	0.4	0.45	113		27	154
		2-Fluorobiphenyl	0.4	0.40	100		30	155
		Terphenyl-d14	0.4	0.45	113		54	175

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2181

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified **DataFile:** BN037168.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168238BS	Acenaphthylene	0.4	0.39	ug/L	98				60	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2181

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified **DataFile:** BN037169.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168238BSD	Acenaphthylene	0.4	0.39	ug/L	98	0			60	119	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168238BL

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

Lab File ID: BN037167.D Lab Sample ID: PB168238BL

Instrument ID: BNA_N Date Extracted: 06/02/2025

Matrix: (soil/water) Water Date Analyzed: 06/04/2025

Level: (low/med) LOW Time Analyzed: 11:03

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168238BS	PB168238BS	BN037168.D	06/04/2025
PB168238BSD	PB168238BSD	BN037169.D	06/04/2025
38072-062624	Q2181-01	BN037152.D	06/03/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q2181 SDG NO.: Q2181

Lab File ID: BN037142.D DFTPP Injection Date: 06/03/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.7
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	10.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (19.8) 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	BN037143.D	06/03/2025	11:39
SSTDICC0.2	SSTDICC0.2	BN037144.D	06/03/2025	12:15
SSTDICCC0.4	SSTDICCC0.4	BN037145.D	06/03/2025	12:51
SSTDICC0.8	SSTDICC0.8	BN037146.D	06/03/2025	13:26
SSTDICC1.6	SSTDICC1.6	BN037147.D	06/03/2025	14:02
SSTDICC3.2	SSTDICC3.2	BN037148.D	06/03/2025	14:38
SSTDICC5.0	SSTDICC5.0	BN037149.D	06/03/2025	15:14
38072-062624	Q2181-01	BN037152.D	06/03/2025	17:41
38072-062624DL	Q2181-01DL	BN037153.D	06/03/2025	18:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q2181 SDG NO.: Q2181

Lab File ID: BN037165.D DFTPP Injection Date: 06/04/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	76.1
68	Less than 2.0% of mass 69	0.4 (0.6) 1
69	Mass 69 relative abundance	61.6
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	55.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.2
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (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
SSTDCCC0.4	SSTDCCC0.4	BN037166.D	06/04/2025	10:27
PB168238BL	PB168238BL	BN037167.D	06/04/2025	11:03
PB168238BS	PB168238BS	BN037168.D	06/04/2025	12:27
PB168238BSD	PB168238BSD	BN037169.D	06/04/2025	13:03

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/03/2025

Lab File ID: BN037145.D Time Analyzed: 12:51

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	2099	7.59	5221	10.37	2886	14.24
	UPPER LIMIT	4198	8.09	10442	10.872	5772	14.735
	LOWER LIMIT	1049.5	7.09	2610.5	9.872	1443	13.735
	EPA SAMPLE NO.						
01	38072-062624	1726	7.60	4746	10.37	2693	14.25
02	38072-062624DL	2324	7.60	6120	10.37	3333	14.23

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.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/03/2025

Lab File ID: BN037145.D Time Analyzed: 12:51

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	5446	16.984	3769	21.189	3386	23.377
	UPPER LIMIT	10892	17.484	7538	21.689	6772	23.877
	LOWER LIMIT	2723	16.484	1884.5	20.689	1693	22.877
	EPA SAMPLE NO.						
01	38072-062624	4905	16.98	3958	21.19	3402	23.37
02	38072-062624DL	6288	16.98	4597	21.18	3669	23.38

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.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/04/2025

Lab File ID: BN037166.D Time Analyzed: 10:27

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	2757	7.589	7191	10.37	3834	14.23
	UPPER LIMIT	5514	8.089	14382	10.872	7668	14.734
	LOWER LIMIT	1378.5	7.089	3595.5	9.872	1917	13.734
	EPA SAMPLE NO.						
01	PB168238BL	2941	7.59	7107	10.37	3690	14.25
02	PB168238BS	2103	7.59	5280	10.37	2700	14.24
03	PB168238BSD	2147	7.59	5350	10.37	2661	14.24

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.: Q2181 SAS No.: Q2181 SDG NO.: Q2181

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/04/2025

Lab File ID: BN037166.D Time Analyzed: 10:27

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	6868	16.984	4452	21.18	4092	23.374
	UPPER LIMIT	13736	17.484	8904	21.68	8184	23.874
	LOWER LIMIT	3434	16.484	2226	20.68	2046	22.874
	EPA SAMPLE NO.						
01	PB168238BL	6730	16.98	4435	21.19	4132	23.37
02	PB168238BS	4608	16.98	2742	21.19	2588	23.38
03	PB168238BSD	4419	16.98	2674	21.19	2551	23.38

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.

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **BN037152.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	05/30/25
Project:	NJ Waste Water PT	Date Received:	06/02/25
Client Sample ID:	38072-062624	SDG No.:	Q2181
Lab Sample ID:	Q2181-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN037152.D	1	06/02/25 14:27	06/03/25 17:41	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	120	E	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.39		20 - 139	97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		54 - 157	103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		27 - 154	100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		30 - 155	94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	93%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1730	7.597			
1146-65-2	Naphthalene-d8	4750	10.372			
15067-26-2	Acenaphthene-d10	2690	14.245			
1517-22-2	Phenanthrene-d10	4910	16.984			
1719-03-5	Chrysene-d12	3960	21.189			
1520-96-3	Perylene-d12	3400	23.374			

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\BN060325\
Data File : BN037152.D
Acq On : 03 Jun 2025 17:41
Operator : RC/JU
Sample : Q2181-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-062624

Quant Time: Jun 04 02:47:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

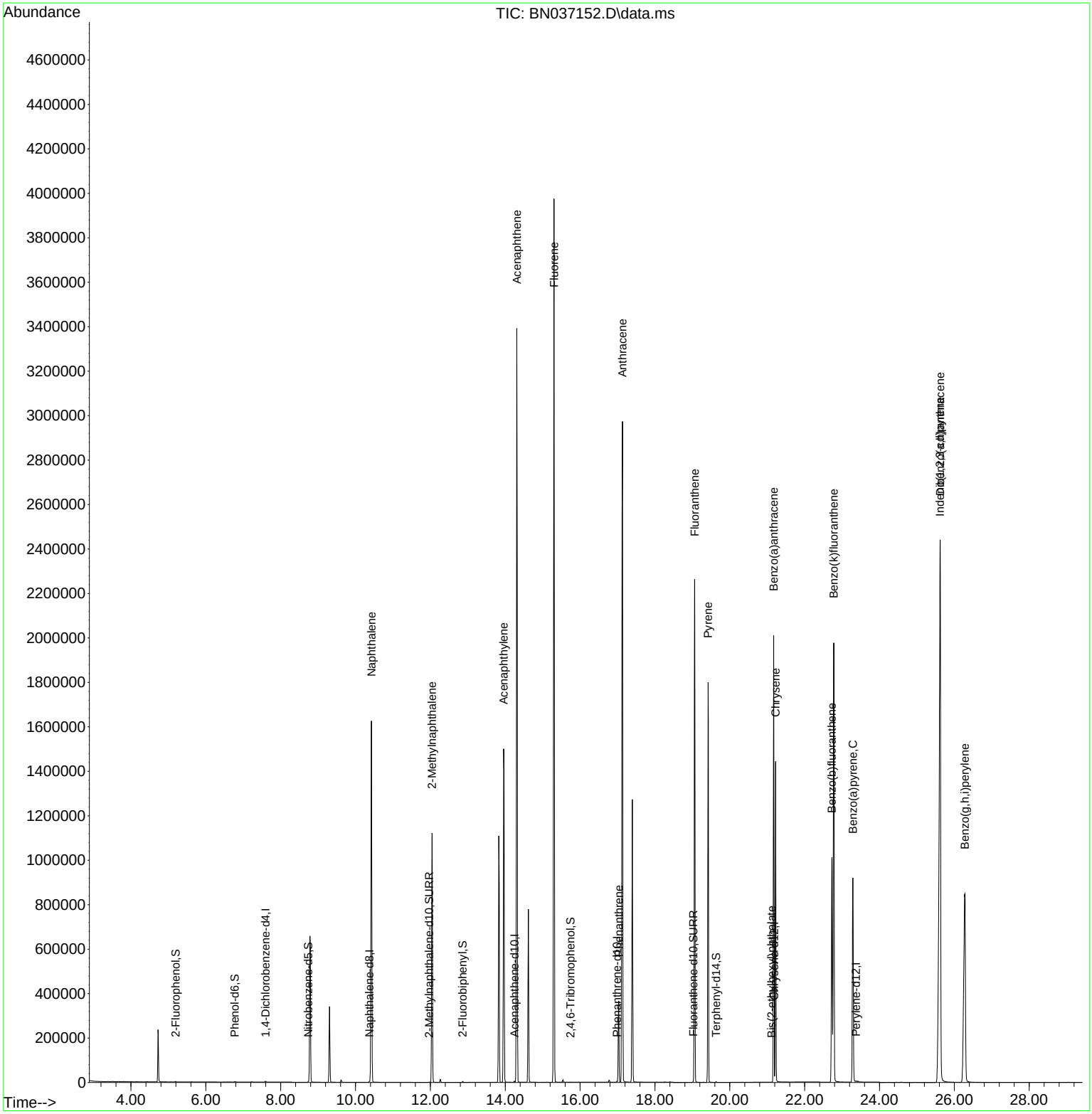
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.597	152	1726	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	4746	0.400	ng		0.00
13) Acenaphthene-d10	14.245	164	2693	0.400	ng		0.01
19) Phenanthrene-d10	16.984	188	4905	0.400	ng		0.00
29) Chrysene-d12	21.189	240	3958	0.400	ng		0.00
35) Perylene-d12	23.374	264	3402	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.192	112	1488	0.349	ng		0.00
5) Phenol-d6	6.773	99	1874	0.362	ng		0.00
8) Nitrobenzene-d5	8.739	82	2000	0.399	ng		0.00
11) 2-Methylnaphthalene-d10	11.965	152	2574	0.390	ng		0.00
14) 2,4,6-Tribromophenol	15.742	330	296	0.273	ng		0.00
15) 2-Fluorobiphenyl	12.863	172	4344	0.378	ng		0.00
27) Fluoranthene-d10	19.026	212	5165	0.414	ng		0.00
31) Terphenyl-d14	19.635	244	3468	0.372	ng		0.00
Target Compounds							Qvalue
9) Naphthalene	10.426	128	1916960	139.998	ng		96
12) 2-Methylnaphthalene	12.047	142	724960	82.603	ng		97
16) Acenaphthylene	13.956	152	1626337	123.178	ng		100
17) Acenaphthene	14.309	154	1602919	186.976	ng		94
18) Fluorene	15.304	166	2228433	197.737	ng		97
25) Phenanthrene	17.033	178	388800	24.466	ng		100
26) Anthracene	17.133	178	3294514	227.200	ng		100
28) Fluoranthene	19.063	202	2023402	115.258	ng		99
30) Pyrene	19.421	202	1523102	78.833	ng		99
32) Benzo(a)anthracene	21.171	228	1535854	107.198	ng		99
33) Chrysene	21.224	228	1025267	64.274	ng		99
34) Bis(2-ethylhexyl)phtha...	21.117	149	565	0.063	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.617	276	2900718	214.315	ng		99
37) Benzo(b)fluoranthene	22.728	252	1250366	91.051	ng	#	88
38) Benzo(k)fluoranthene	22.778	252	2348043	167.474	ng	#	88
39) Benzo(a)pyrene	23.290	252	1221520	106.192	ng	#	82
40) Dibenzo(a,h)anthracene	25.623	278	1780212	170.556	ng	#	86
41) Benzo(g,h,i)perylene	26.280	276	1847070	154.066	ng		96

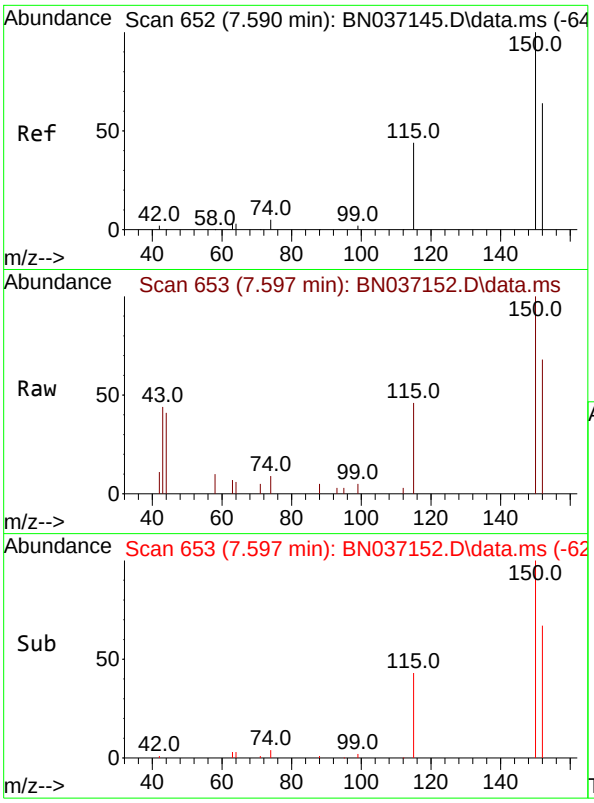
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037152.D
Acq On : 03 Jun 2025 17:41
Operator : RC/JU
Sample : Q2181-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-062624

Quant Time: Jun 04 02:47:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration



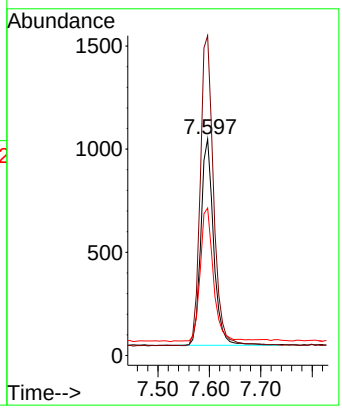


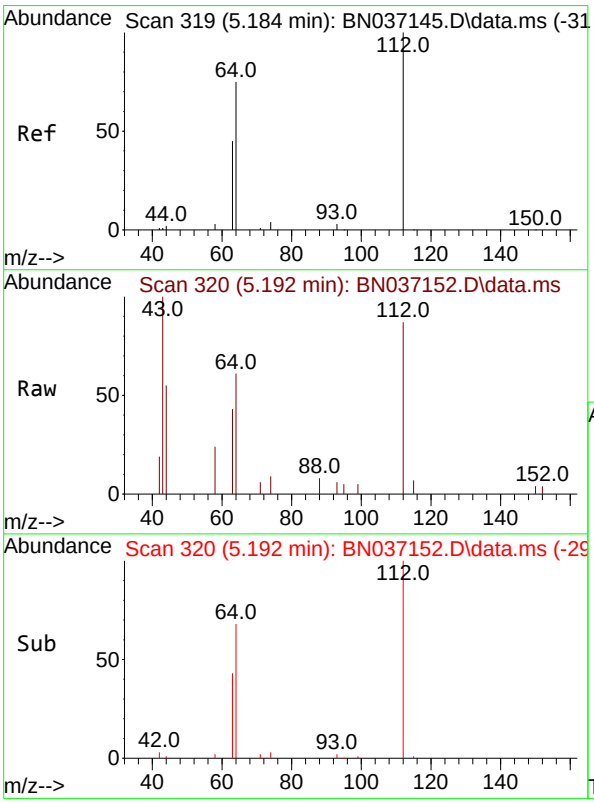
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.597 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:152 Resp: 1726

Ion	Ratio	Lower	Upper
152	100		
150	147.8	123.2	184.8
115	68.2	56.6	85.0

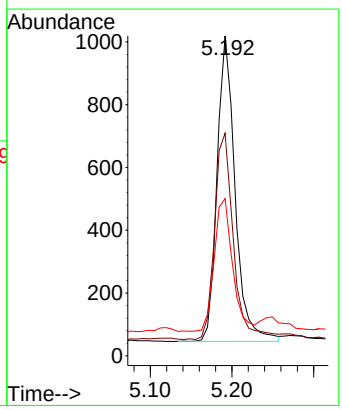


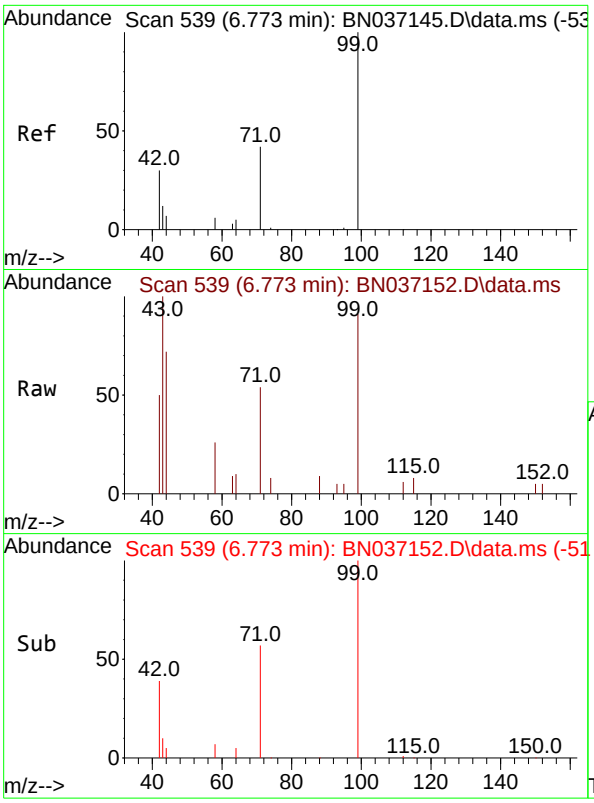


#4
2-Fluorophenol
Concen: 0.349 ng
RT: 5.192 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:112 Resp: 1488

Ion	Ratio	Lower	Upper
112	100		
64	73.3	56.3	84.5
63	44.5	36.2	54.4



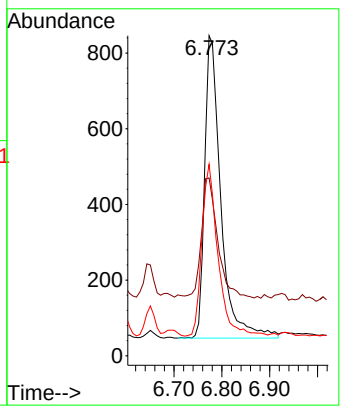


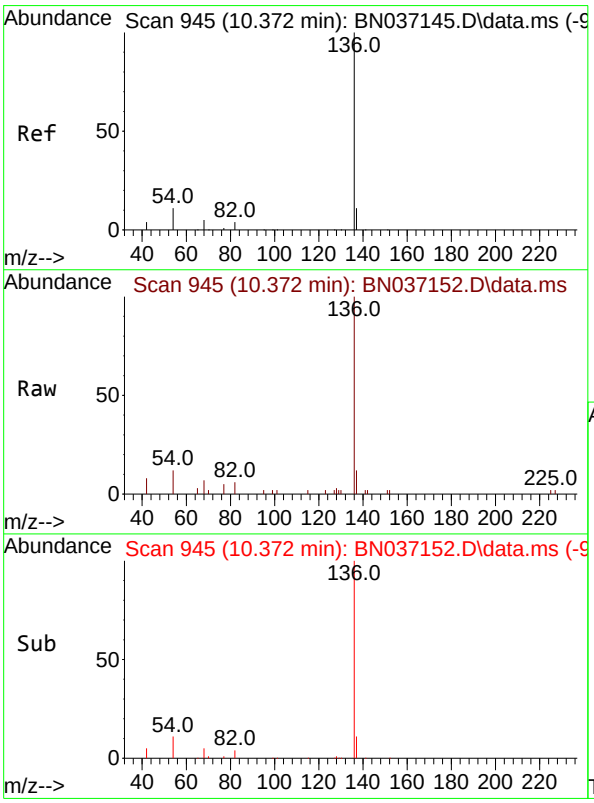
#5
Phenol-d6
Concen: 0.362 ng
RT: 6.773 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion: 99 Resp: 1874

Ion	Ratio	Lower	Upper
99	100		
42	39.9	31.3	46.9
71	56.8	38.2	57.2

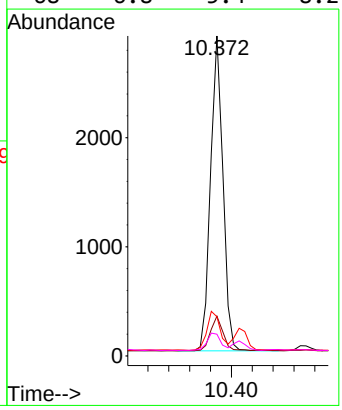


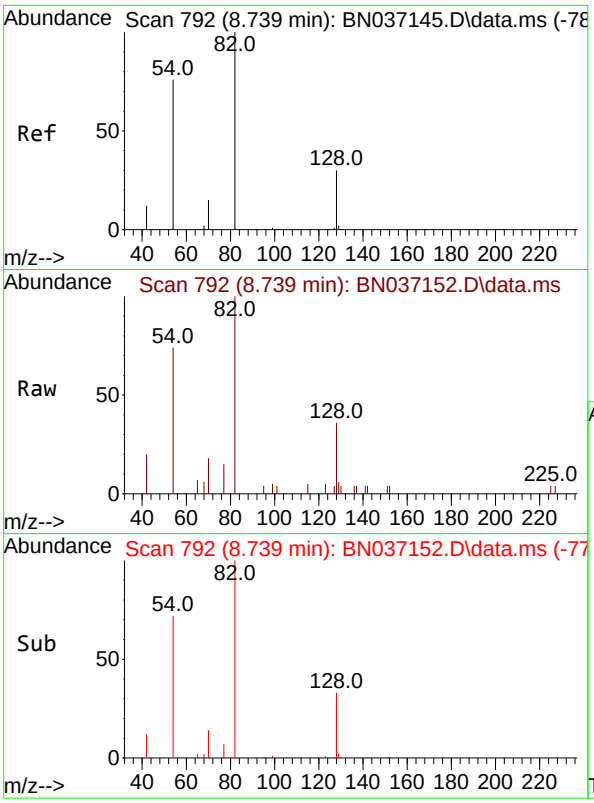


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:136 Resp: 4746

Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.7	14.5
54	12.2	9.7	14.5
68	6.8	5.4	8.2



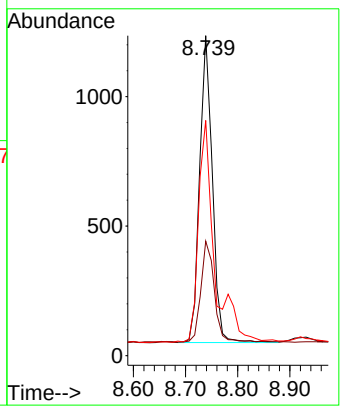


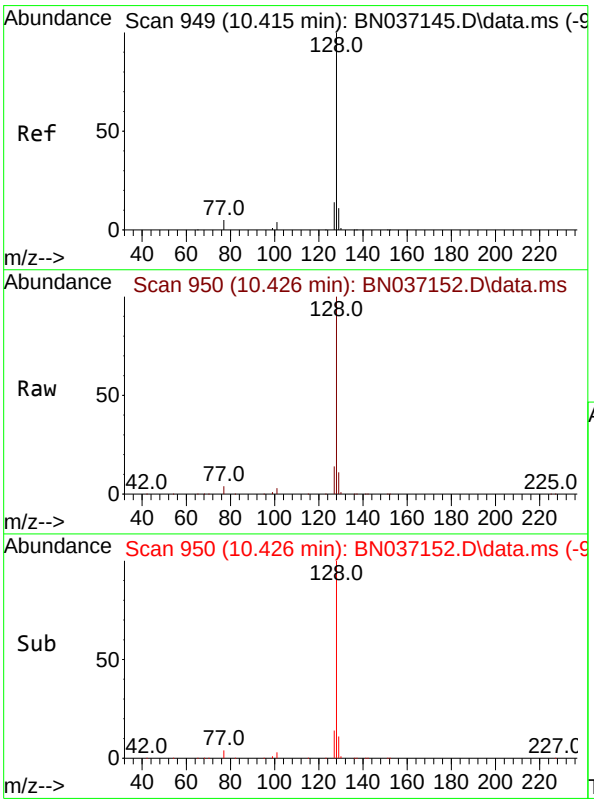
#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.739 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion: 82 Resp: 2000

Ion	Ratio	Lower	Upper
82	100		
128	35.8	26.9	40.3
54	73.5	61.4	92.2

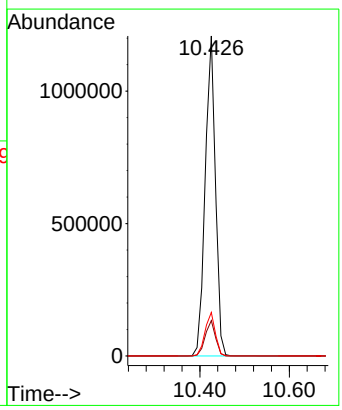


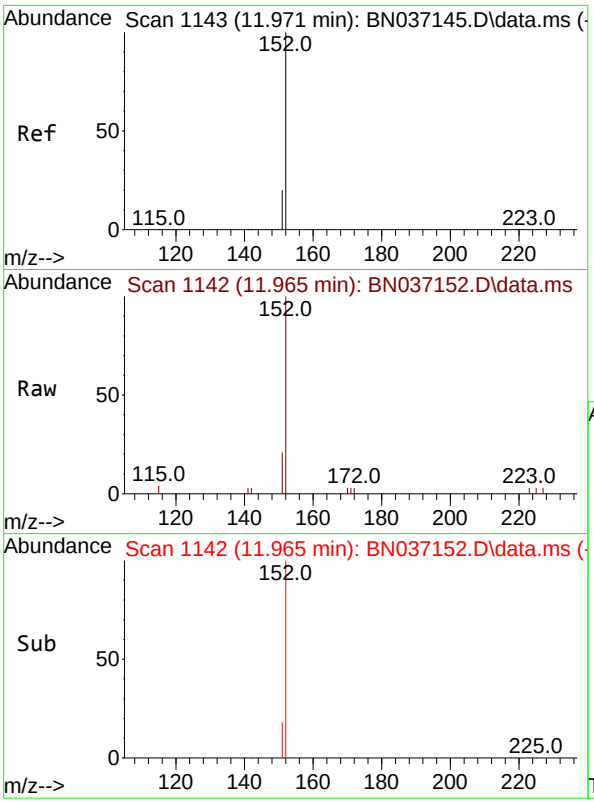


#9
Naphthalene
Concen: 139.998 ng
RT: 10.426 min Scan# 950
Delta R.T. 0.011 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:128 Resp: 1916960

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.8	14.8
127	13.6	12.3	18.5



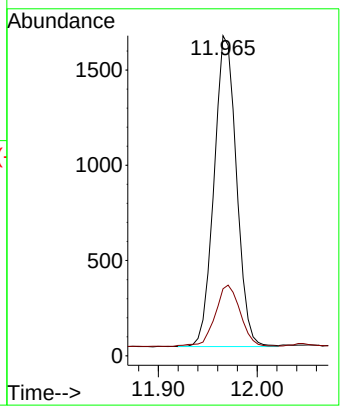


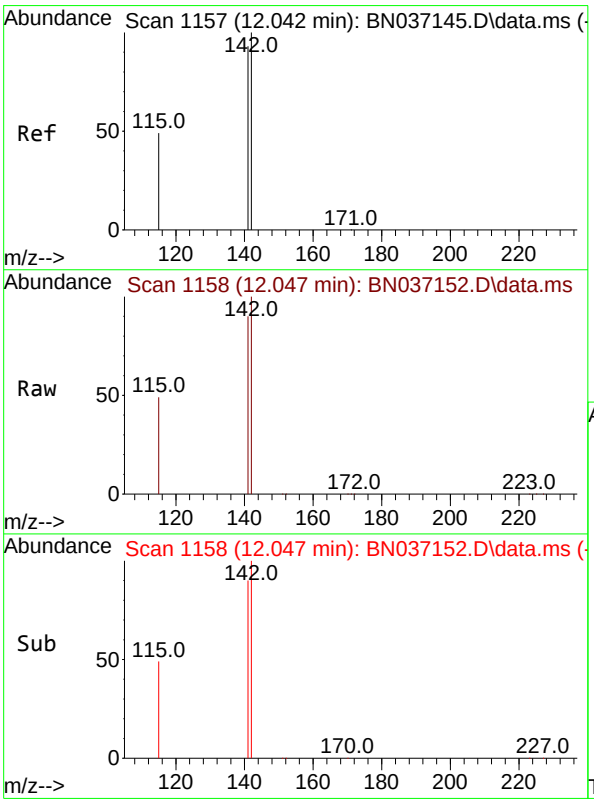
#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 11.965 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:152 Resp: 2574

Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.1	25.7

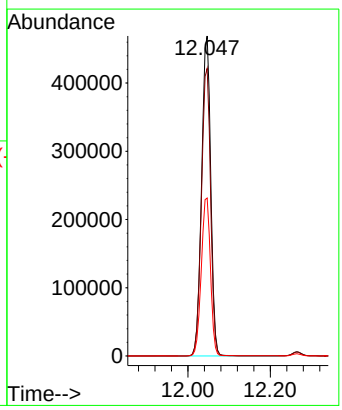


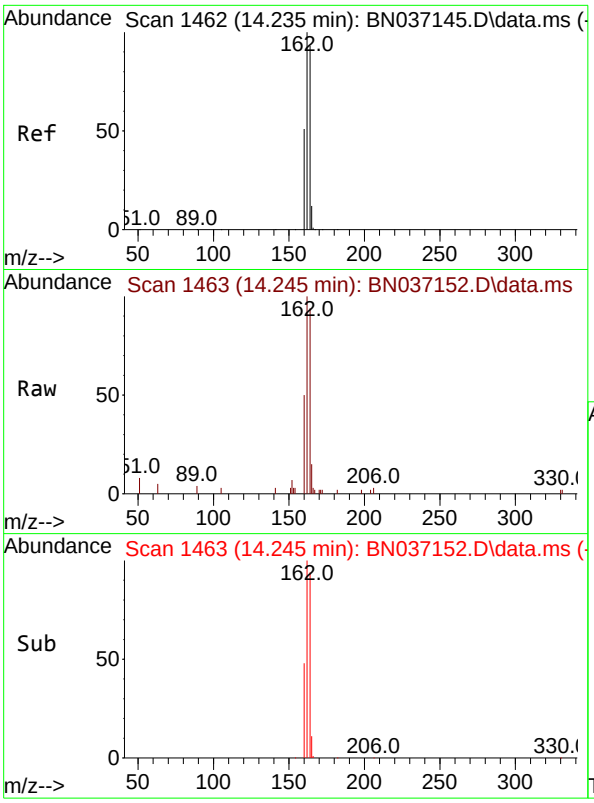


#12
2-Methylnaphthalene
Concen: 82.603 ng
RT: 12.047 min Scan# 1158
Delta R.T. 0.005 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:142 Resp: 724960

Ion	Ratio	Lower	Upper
142	100		
141	89.9	74.6	111.8
115	49.4	41.0	61.4



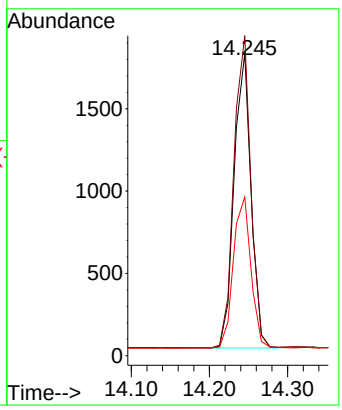


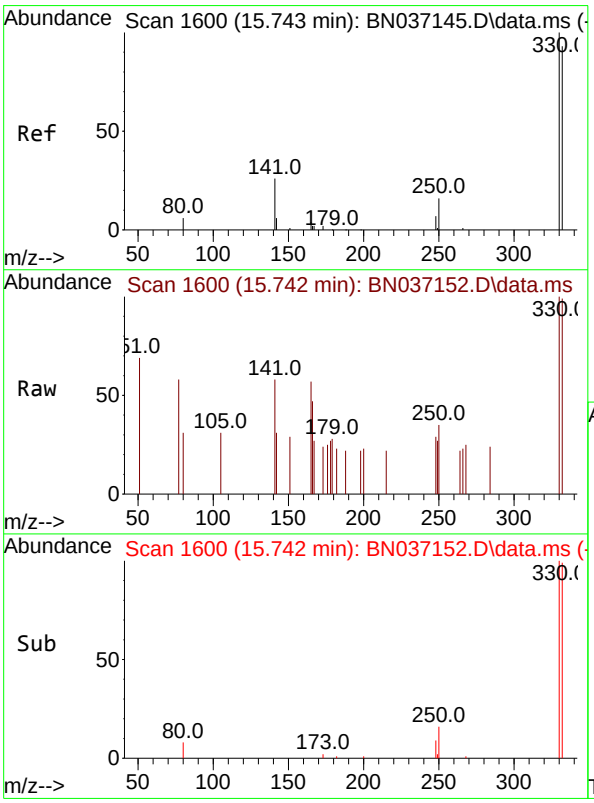
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.245 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:164 Resp: 2693

Ion	Ratio	Lower	Upper
164	100		
162	105.9	85.5	128.3
160	52.5	44.6	67.0

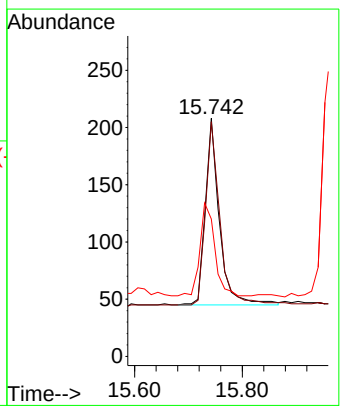


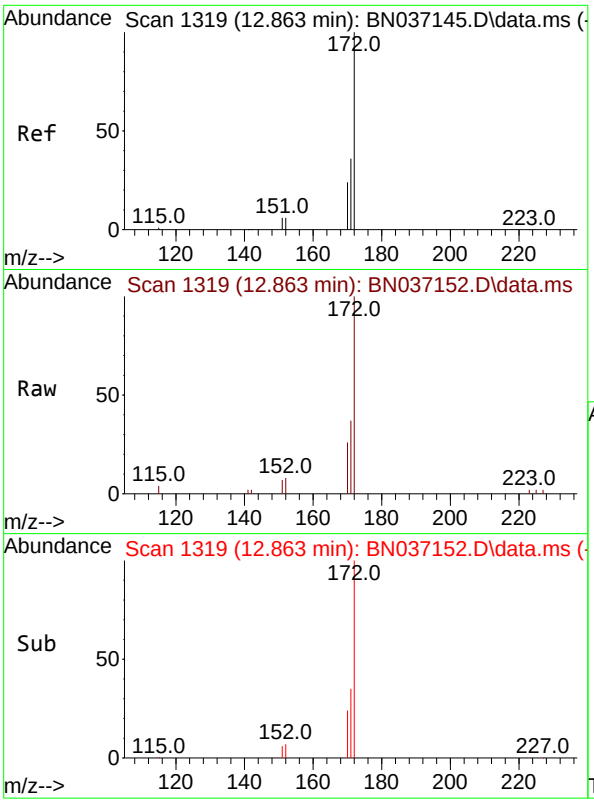


#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.742 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:330 Resp: 296

Ion	Ratio	Lower	Upper
330	100		
332	100.0	77.1	115.7
141	52.7	46.4	69.6



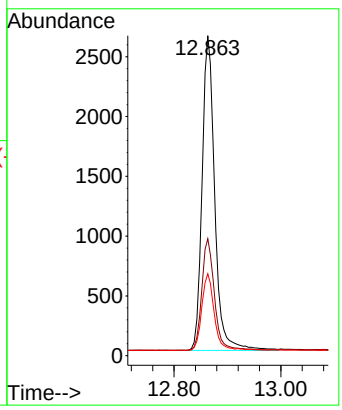


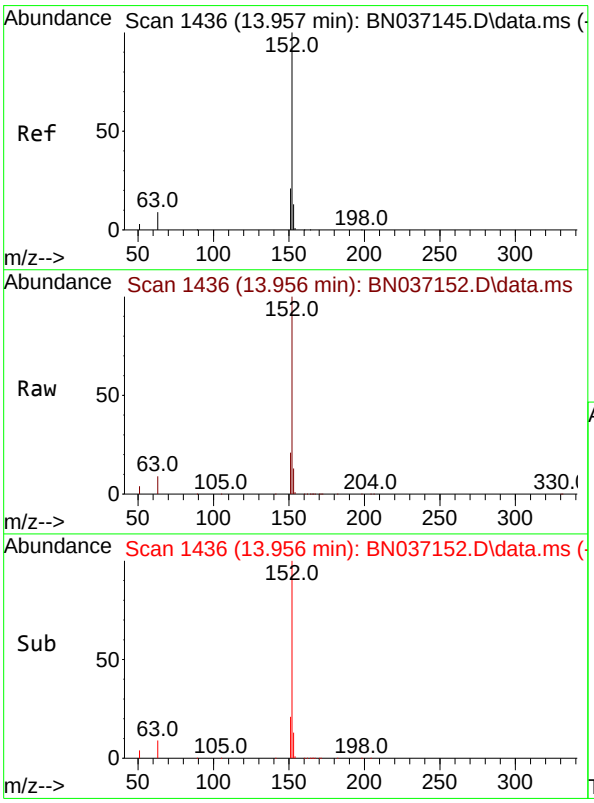
#15
2-Fluorobiphenyl
Concen: 0.378 ng
RT: 12.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:172 Resp: 4344

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.6	44.4
170	25.6	20.3	30.5

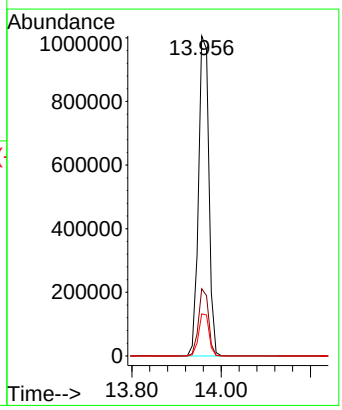


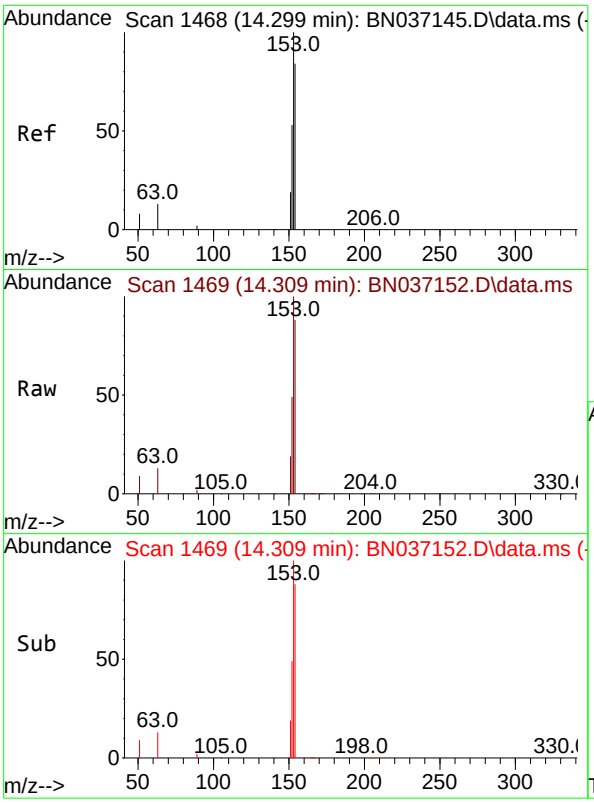


#16
Acenaphthylene
Concen: 123.178 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:152 Resp: 1626337

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.2	10.6	15.8



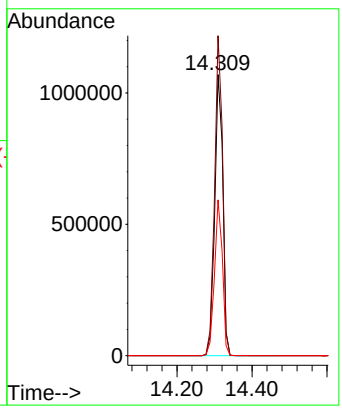


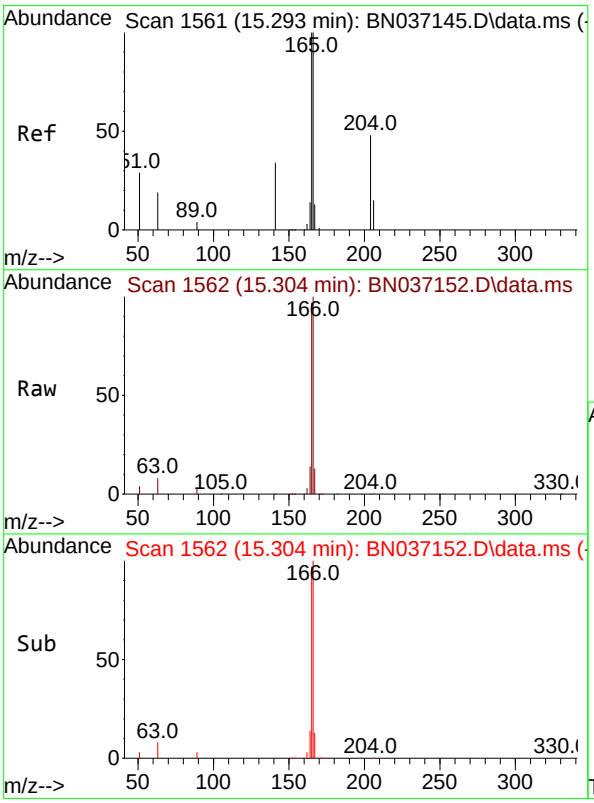
#17
Acenaphthene
Concen: 186.976 ng
RT: 14.309 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:154 Resp: 1602919

Ion	Ratio	Lower	Upper
154	100		
153	112.9	93.8	140.8
152	54.6	50.5	75.7

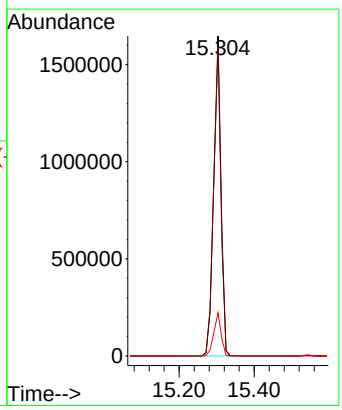


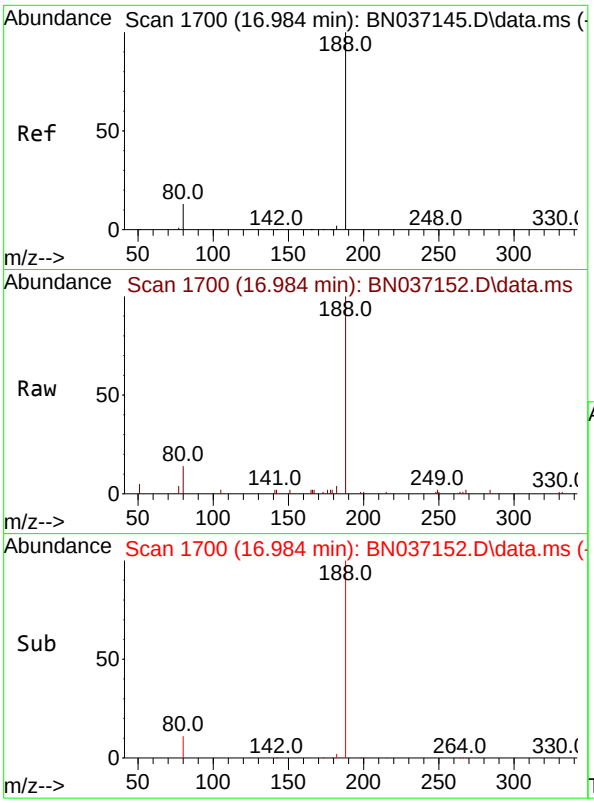


#18
Fluorene
Concen: 197.737 ng
RT: 15.304 min Scan# 1562
Delta R.T. 0.011 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:166 Resp: 2228433

Ion	Ratio	Lower	Upper
166	100		
165	97.6	81.1	121.7
167	13.5	10.8	16.2



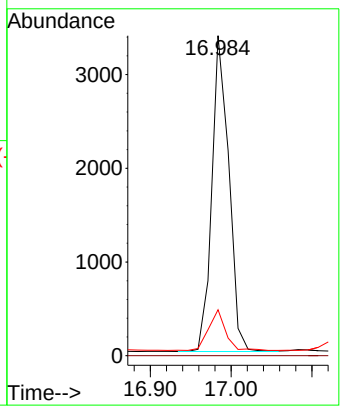


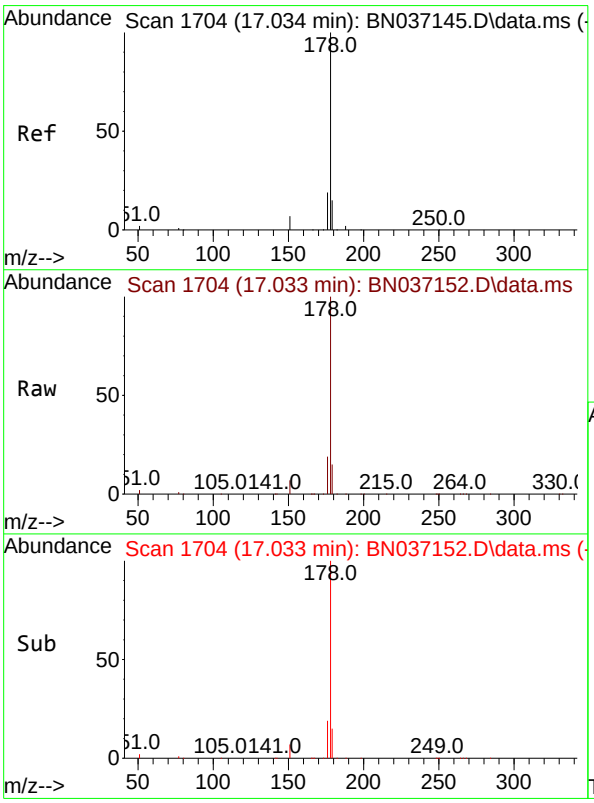
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:188 Resp: 4905

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.3	11.3	16.9

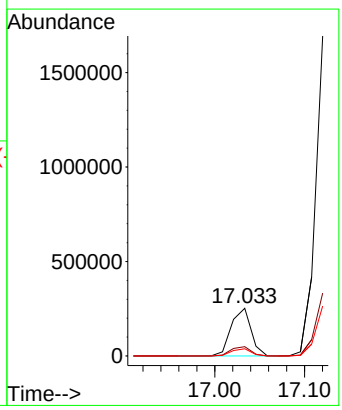


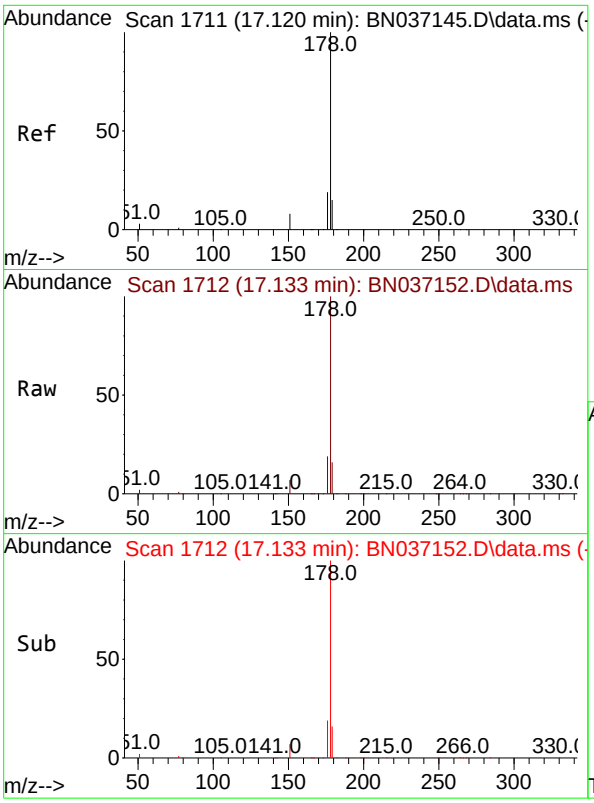


#25
Phenanthrene
Concen: 24.466 ng
RT: 17.033 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:178 Resp: 388800

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.2	12.3	18.5



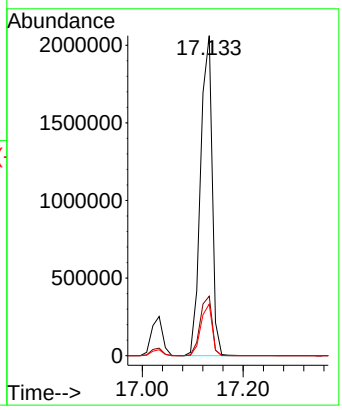


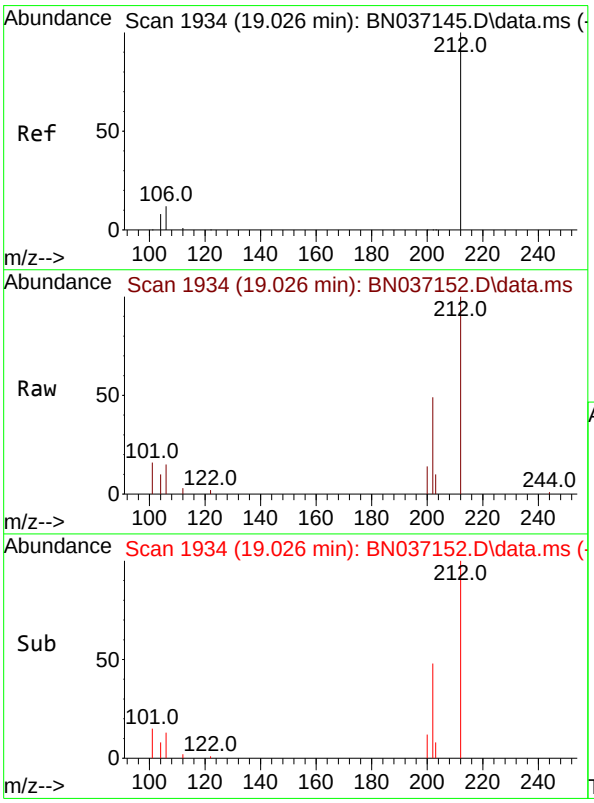
#26
Anthracene
Concen: 227.200 ng
RT: 17.133 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:178 Resp: 3294514

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.8	12.9	19.3

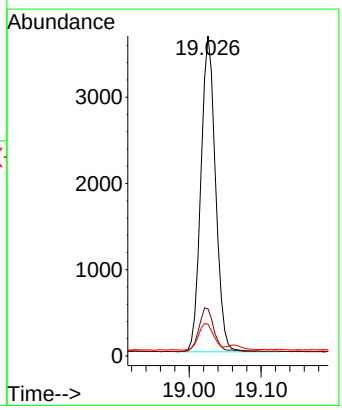


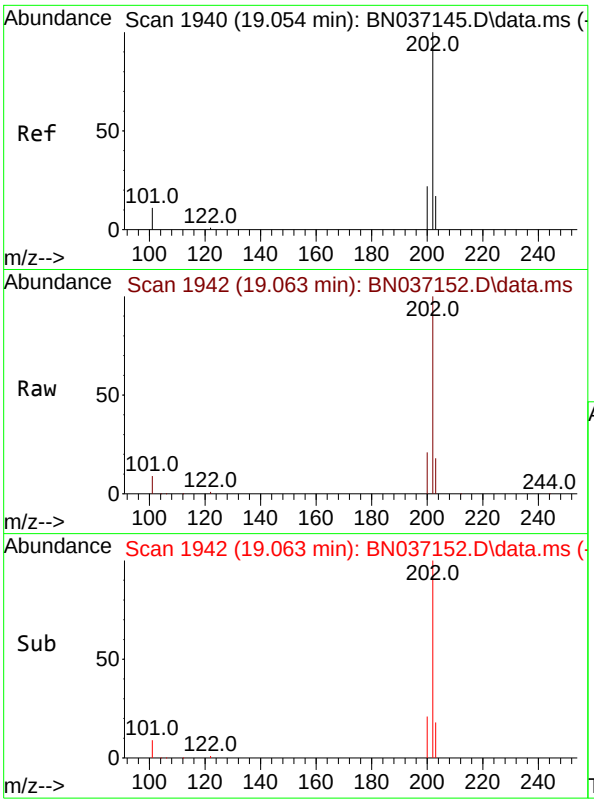


#27
Fluoranthene-d10
Concen: 0.414 ng
RT: 19.026 min Scan# 1934
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:212 Resp: 5165

Ion	Ratio	Lower	Upper
212	100		
106	14.5	10.6	15.8
104	8.8	6.6	9.8



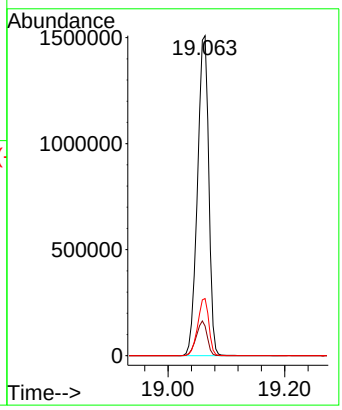


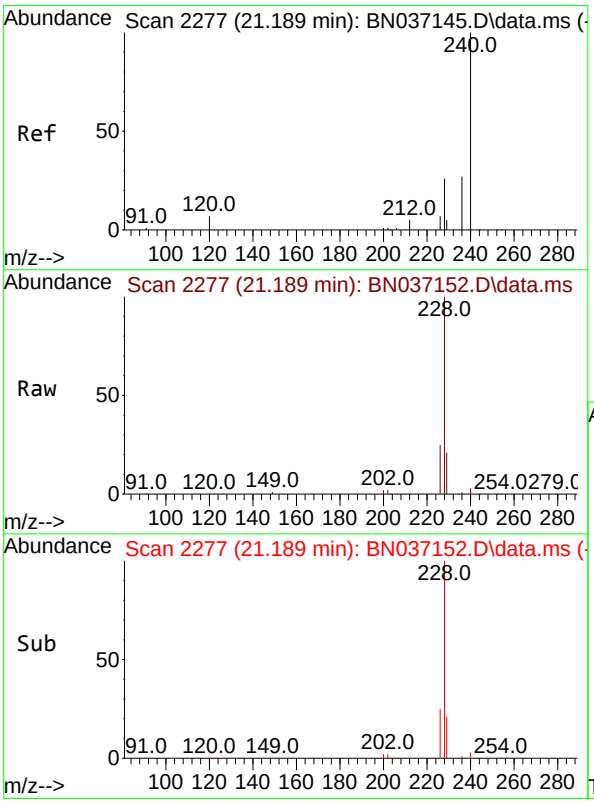
#28
Fluoranthene
Concen: 115.258 ng
RT: 19.063 min Scan# 1
Delta R.T. 0.009 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:202 Resp: 2023402

Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.7	13.1
203	17.6	13.5	20.3

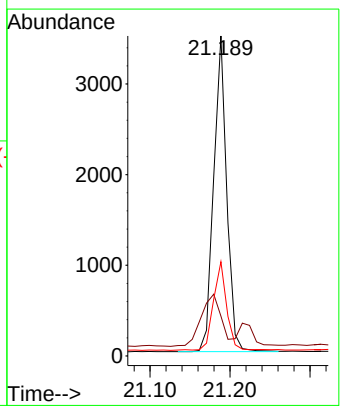


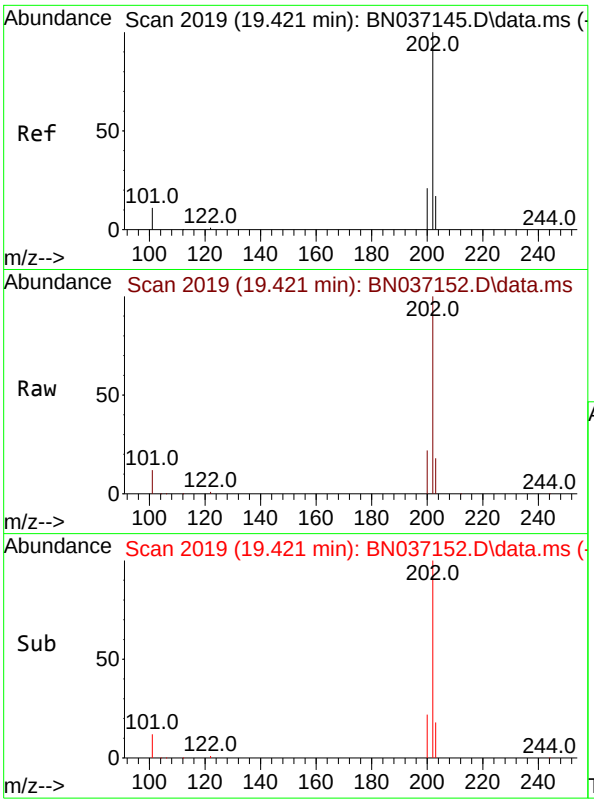


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:240 Resp: 3958

Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.0	13.4
236	29.4	23.0	34.4



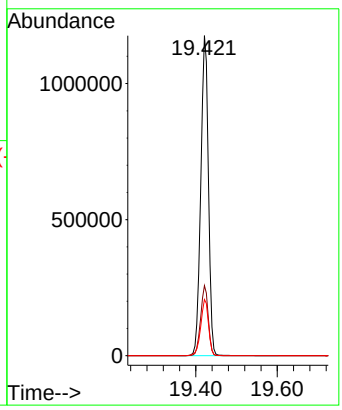


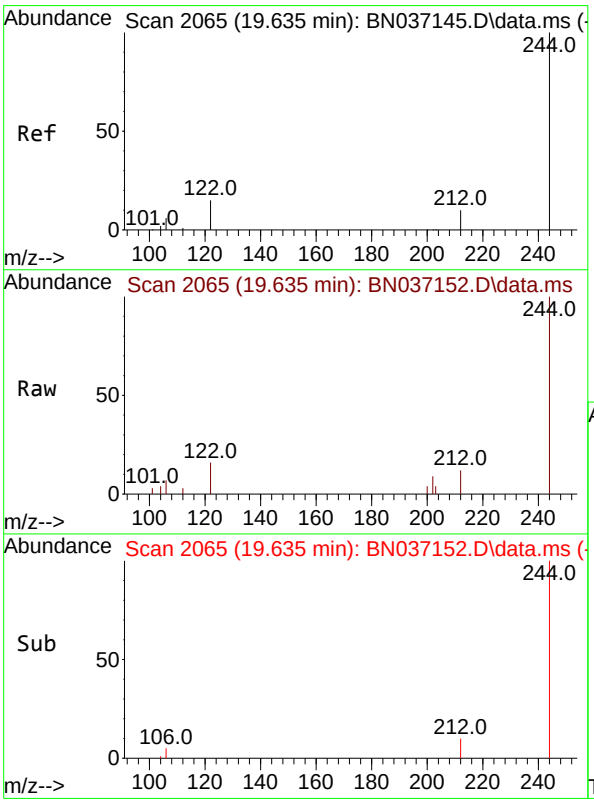
#30
Pyrene
Concen: 78.833 ng
RT: 19.421 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:202 Resp: 1523102

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.0	25.6
203	18.0	14.2	21.4

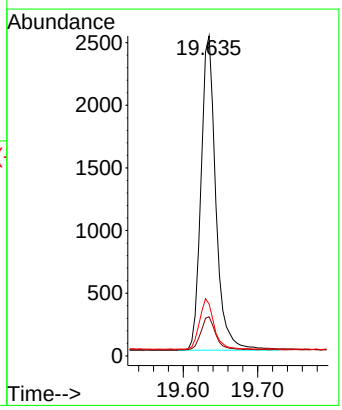


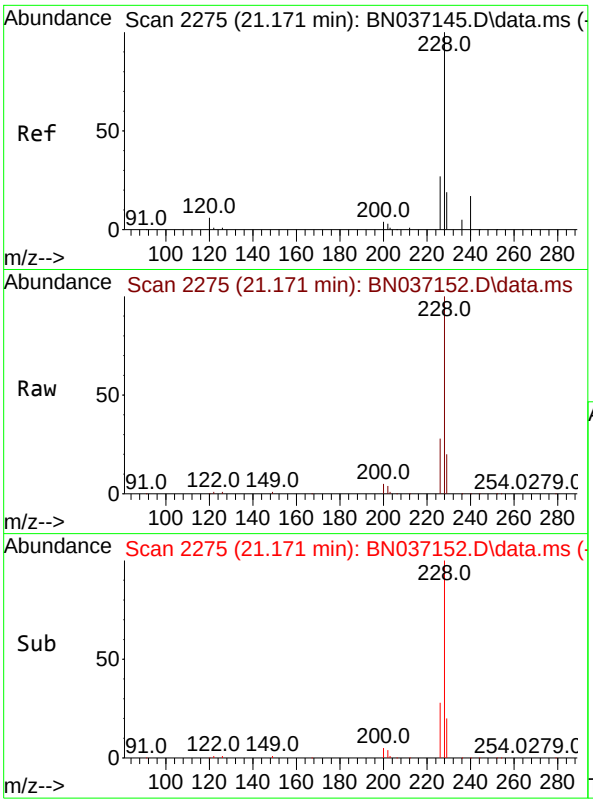


#31
Terphenyl-d14
Concen: 0.372 ng
RT: 19.635 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:244 Resp: 3468

Ion	Ratio	Lower	Upper
244	100		
212	12.2	10.0	15.0
122	16.2	13.2	19.8



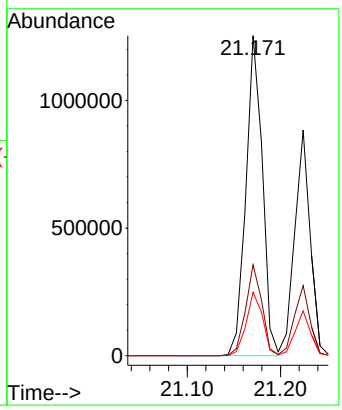


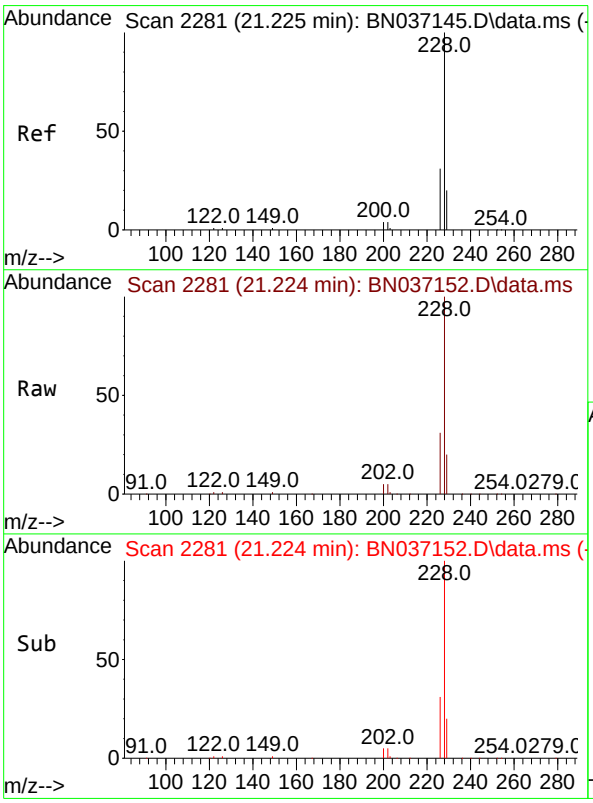
#32
Benzo(a)anthracene
Concen: 107.198 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:228 Resp: 1535854

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	19.8	16.2	24.2

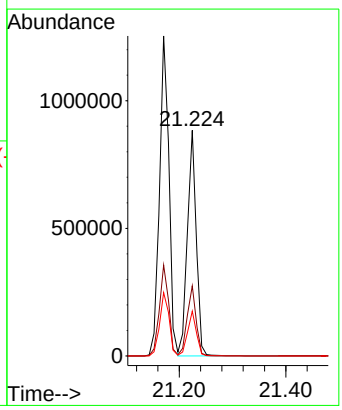


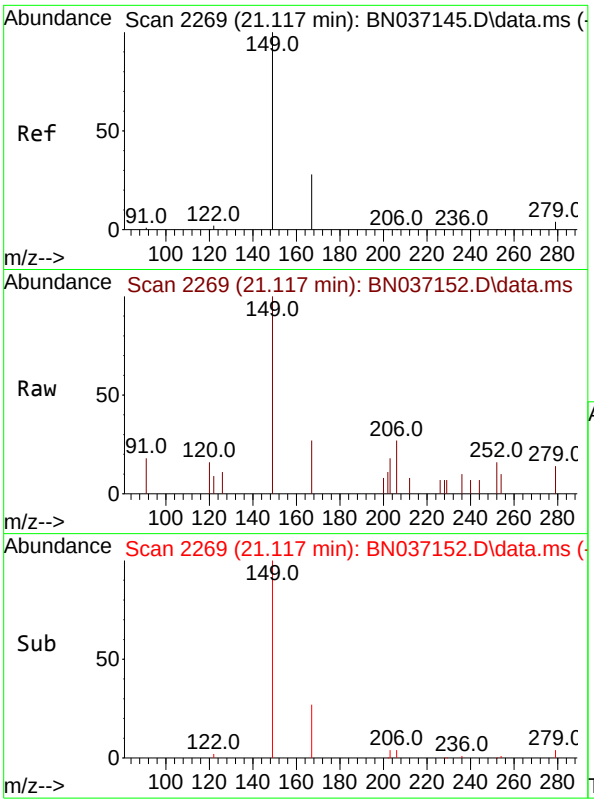


#33
Chrysene
Concen: 64.274 ng
RT: 21.224 min Scan# 2281
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:228 Resp: 1025267

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.2	37.8
229	19.9	16.8	25.2



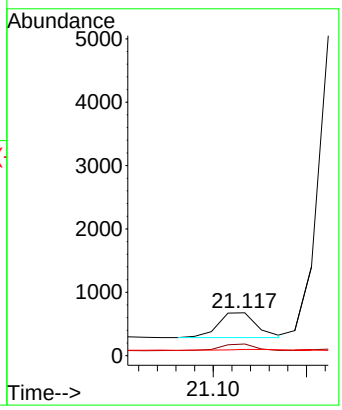


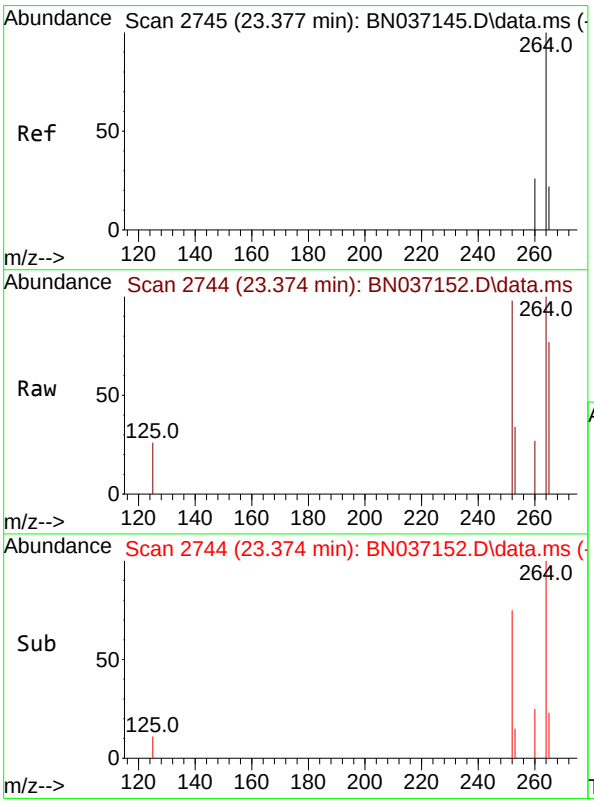
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.063 ng
RT: 21.117 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:149 Resp: 565

Ion	Ratio	Lower	Upper
149	100		
167	25.0	21.0	31.4
279	6.9	2.9	4.3#

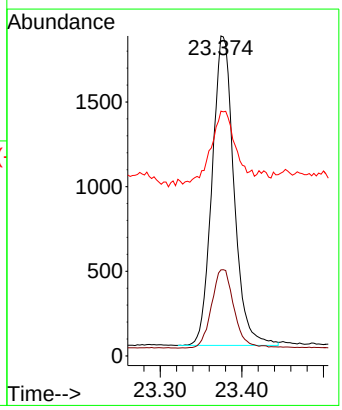


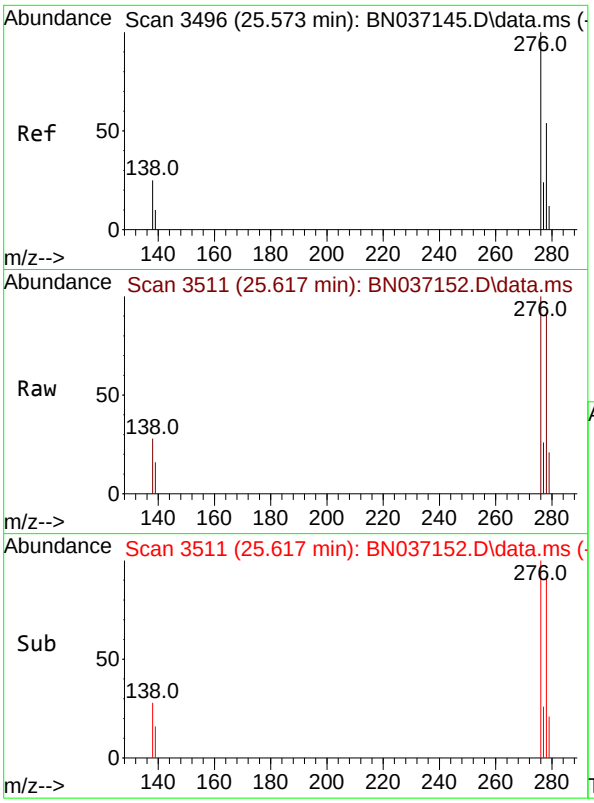


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.374 min Scan# 2744
Delta R.T. -0.003 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:264 Resp: 3402

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.1	33.1
265	76.5	55.8	83.8



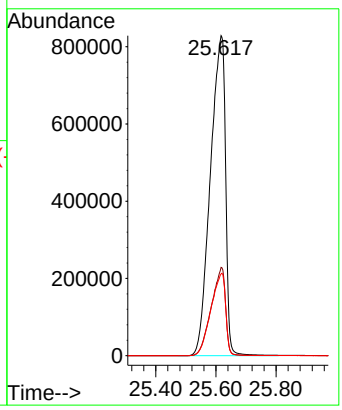


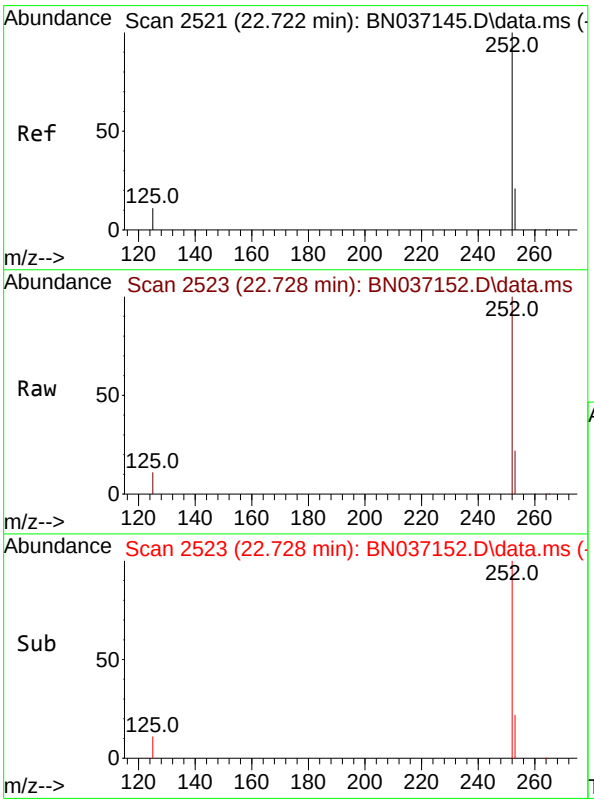
#36
Indeno(1,2,3-cd)pyrene
Concen: 214.315 ng
RT: 25.617 min Scan# 3
Delta R.T. 0.044 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:276 Resp: 2900718

Ion	Ratio	Lower	Upper
276	100		
138	26.1	21.0	31.6
277	25.1	19.4	29.2

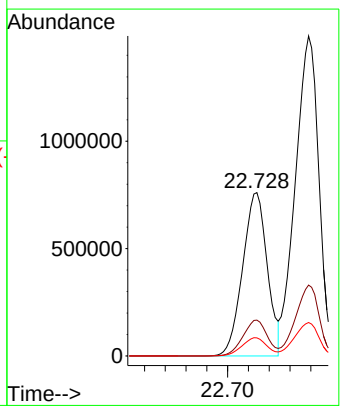


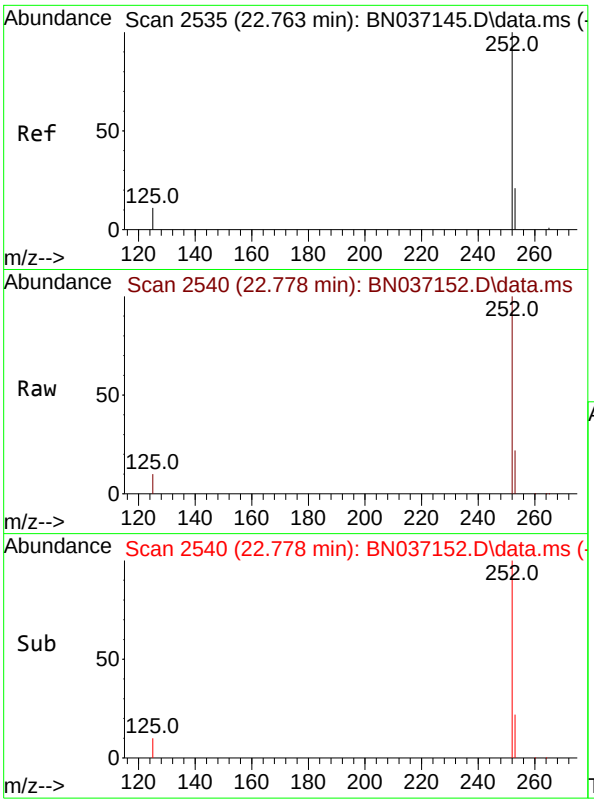


#37
Benzo(b)fluoranthene
Concen: 91.051 ng
RT: 22.728 min Scan# 2523
Delta R.T. 0.006 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:252 Resp: 1250366

Ion	Ratio	Lower	Upper
252	100		
253	21.9	22.3	33.5#
125	11.1	13.2	19.8#



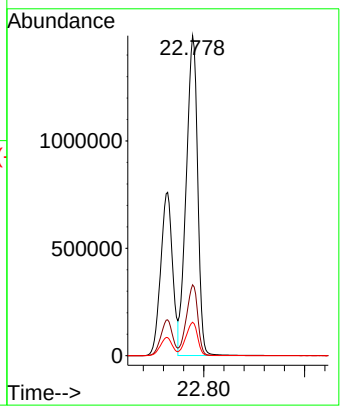


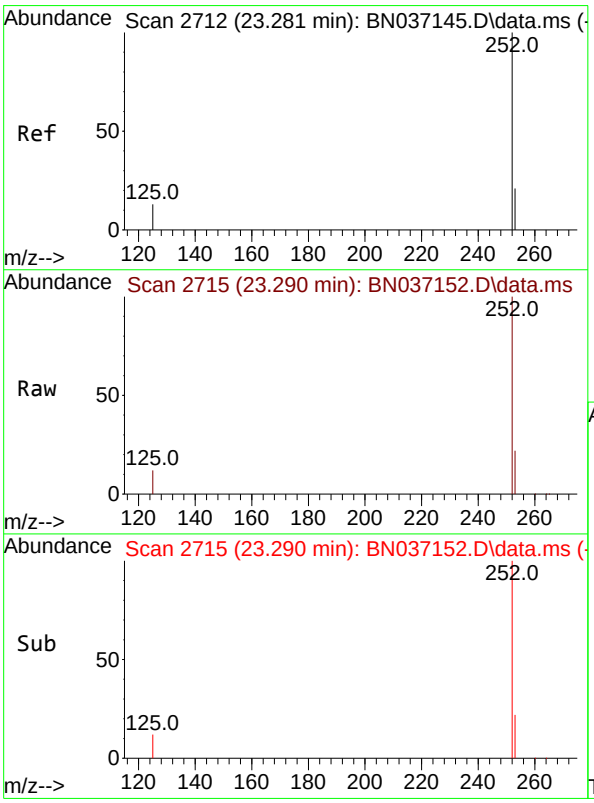
#38
Benzo(k)fluoranthene
Concen: 167.474 ng
RT: 22.778 min Scan# 2
Delta R.T. 0.014 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:252 Resp: 2348043

Ion	Ratio	Lower	Upper
252	100		
253	22.2	22.2	33.4#
125	10.4	13.2	19.8#

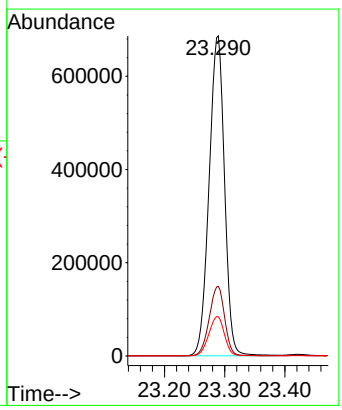


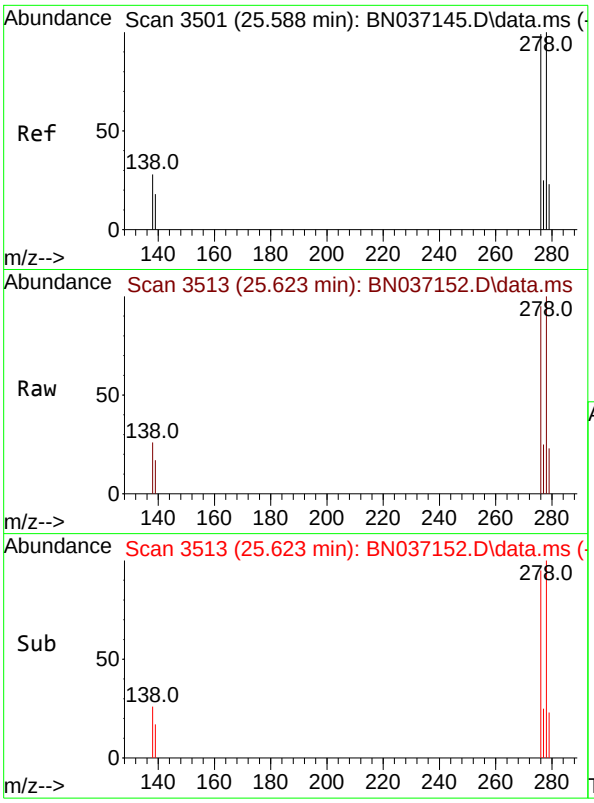


#39
Benzo(a)pyrene
Concen: 106.192 ng
RT: 23.290 min Scan# 2715
Delta R.T. 0.009 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:252 Resp: 1221520

Ion	Ratio	Lower	Upper
252	100		
253	21.7	25.0	37.4#
125	12.2	17.0	25.6#



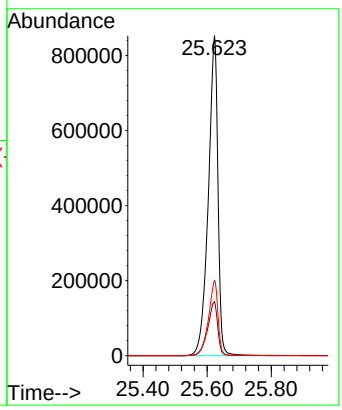


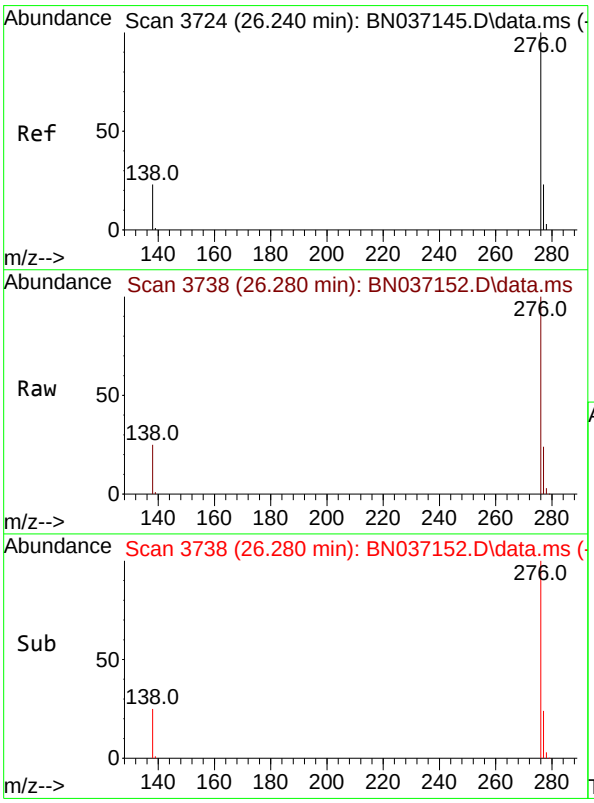
#40
Dibenzo(a,h)anthracene
Concen: 170.556 ng
RT: 25.623 min Scan# 3
Delta R.T. 0.035 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Instrument :
BNA_N
ClientSampleId :
38072-062624

Tgt Ion:278 Resp: 1780212

Ion	Ratio	Lower	Upper
278	100		
139	16.8	17.6	26.4#
279	23.4	26.0	39.0#

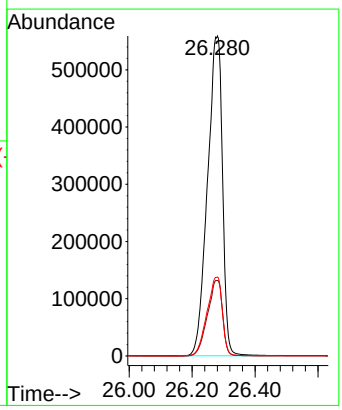




#41
Benzo(g,h,i)perylene
Concen: 154.066 ng
RT: 26.280 min Scan# 3738
Delta R.T. 0.041 min
Lab File: BN037152.D
Acq: 03 Jun 2025 17:41

Tgt Ion:276 Resp: 1847070

Ion	Ratio	Lower	Upper
276	100		
277	23.6	20.9	31.3
138	24.7	20.8	31.2



Raw Data: **BN037153.D**

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	05/30/25
Project:	NJ Waste Water PT	Date Received:	06/02/25
Client Sample ID:	38072-062624DL	SDG No.:	Q2181
Lab Sample ID:	Q2181-01DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN037153.D	50	06/02/25 14:27	06/03/25 18:18	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	120	D	1.90	5.00	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.40		20 - 139	100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		54 - 157	113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45		27 - 154	113%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 - 155	100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		54 - 175	113%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2320	7.596			
1146-65-2	Naphthalene-d8	6120	10.372			
15067-26-2	Acenaphthene-d10	3330	14.234			
1517-22-2	Phenanthrene-d10	6290	16.984			
1719-03-5	Chrysene-d12	4600	21.18			
1520-96-3	Perylene-d12	3670	23.377			

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\BN060325\
Data File : BN037153.D
Acq On : 03 Jun 2025 18:18
Operator : RC/JU
Sample : Q2181-01DL 50X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Quant Time: Jun 04 02:16:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

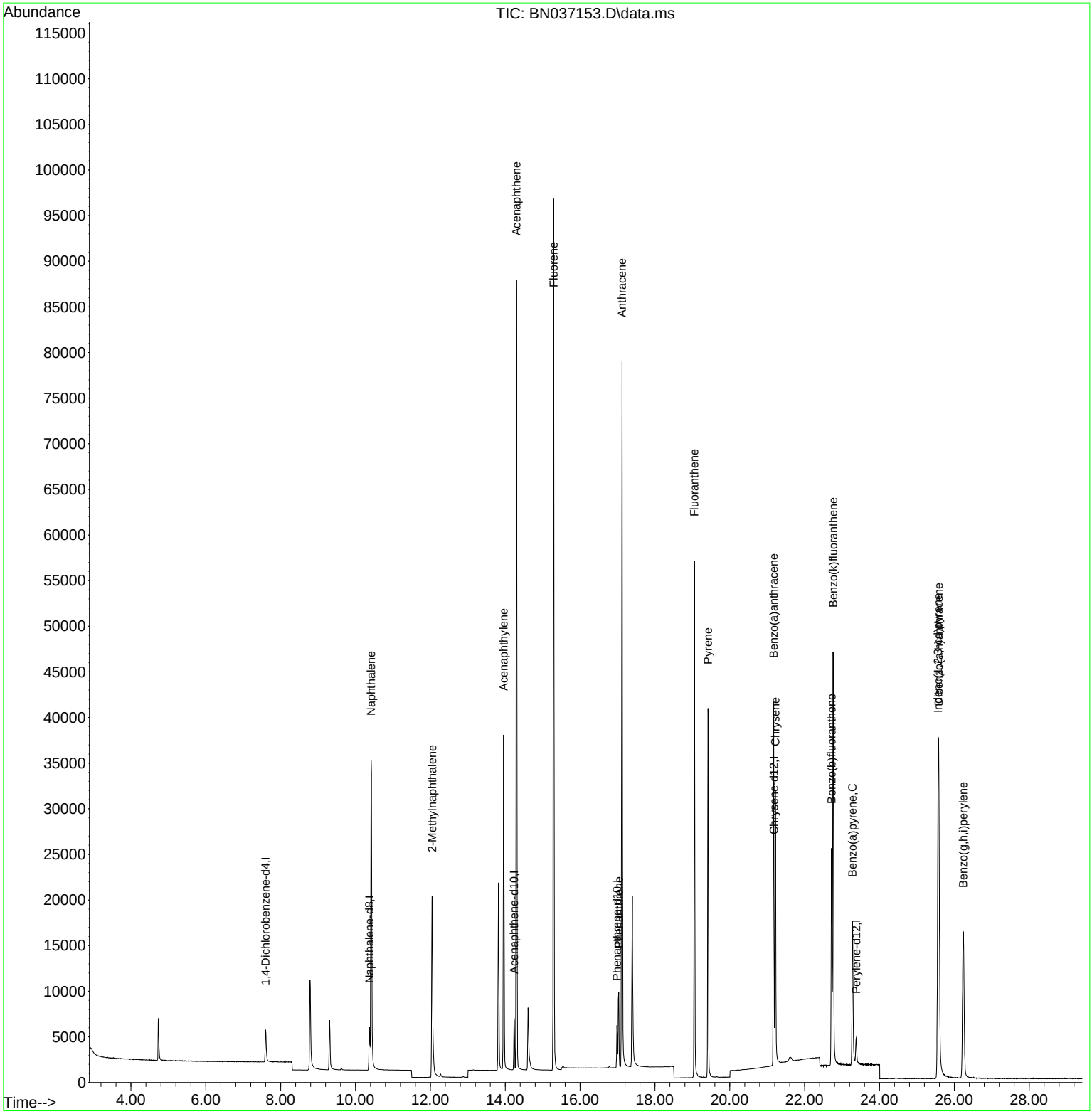
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.596	152	2324	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	6120	0.400	ng		0.00
13) Acenaphthene-d10	14.234	164	3333	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	6288	0.400	ng		0.00
29) Chrysene-d12	21.180	240	4597	0.400	ng	#	0.00
35) Perylene-d12	23.377	264	3669	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.191	112	40	0.007	ng		0.00
5) Phenol-d6	0.000	99	0d	0.000	ng		
8) Nitrobenzene-d5	8.739	82	60	0.009	ng		0.00
11) 2-Methylnaphthalene-d10	11.970	152	72	0.008	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	6	0.004	ng		0.02
15) 2-Fluorobiphenyl	12.883	172	114	0.008	ng		0.02
27) Fluoranthene-d10	19.021	212	141	0.009	ng		0.00
31) Terphenyl-d14	19.644	244	93	0.009	ng		0.00
Target Compounds							Qvalue
9) Naphthalene	10.415	128	49727	2.816	ng		97
12) 2-Methylnaphthalene	12.046	142	17461	1.543	ng		96
16) Acenaphthylene	13.956	152	37740	2.310	ng		99
17) Acenaphthene	14.299	154	39265	3.701	ng		98
18) Fluorene	15.293	166	54997	3.943	ng		99
25) Phenanthrene	17.033	178	9486	0.466	ng		100
26) Anthracene	17.120	178	77911	4.191	ng		99
28) Fluoranthene	19.054	202	51595	2.293	ng		99
30) Pyrene	19.416	202	37373	1.665	ng		100
32) Benzo(a)anthracene	21.171	228	33315	2.002	ng		99
33) Chrysene	21.215	228	26438	1.427	ng		99
36) Indeno(1,2,3-cd)pyrene	25.567	276	51464	3.526	ng		99
37) Benzo(b)fluoranthene	22.719	252	27512	1.858	ng	#	91
38) Benzo(k)fluoranthene	22.760	252	56528	3.738	ng	#	89
39) Benzo(a)pyrene	23.278	252	24186	1.950	ng	#	86
40) Dibenzo(a,h)anthracene	25.582	278	30813	2.737	ng	#	89
41) Benzo(g,h,i)perylene	26.236	276	32541	2.517	ng		97

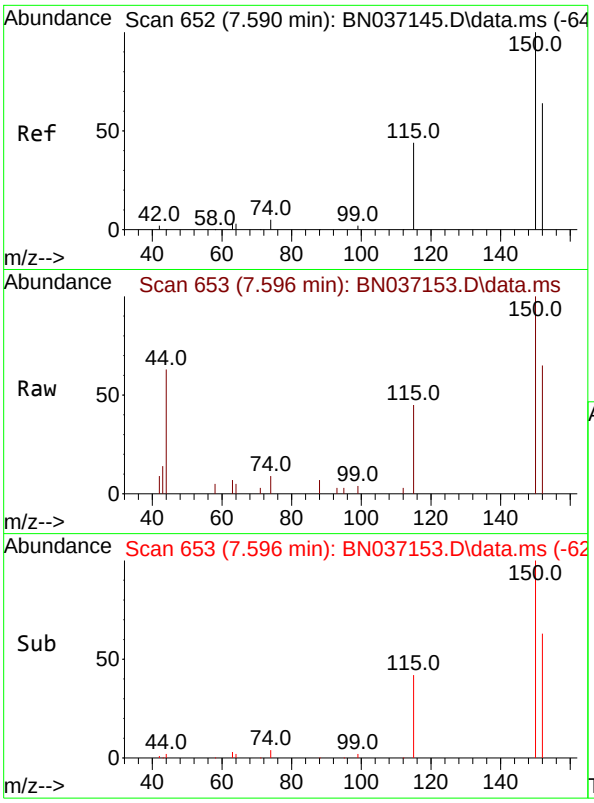
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037153.D
Acq On : 03 Jun 2025 18:18
Operator : RC/JU
Sample : Q2181-01DL 50X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Quant Time: Jun 04 02:16:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration



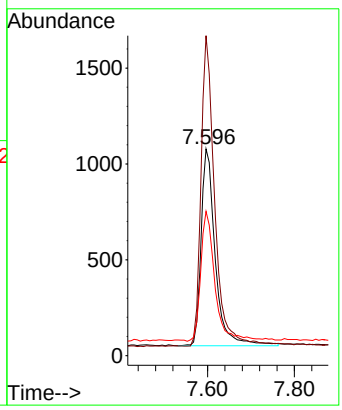


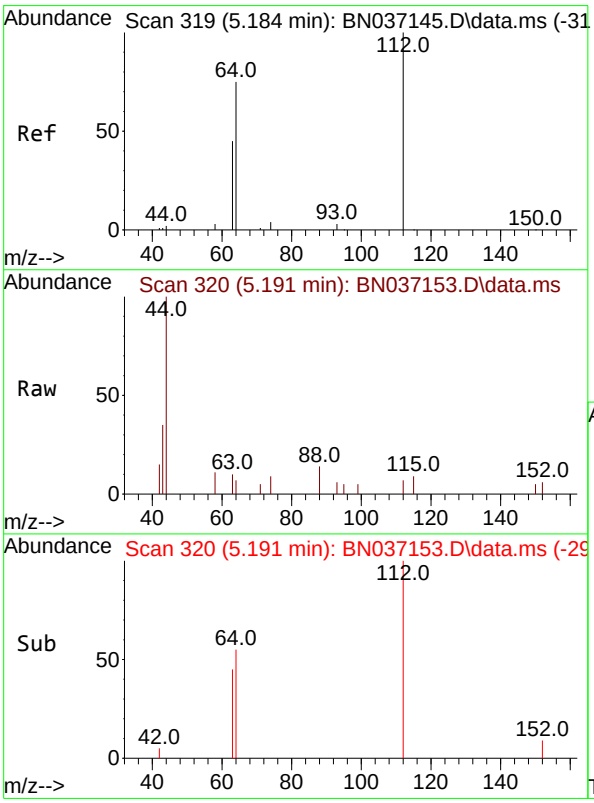
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.596 min Scan# 6
Delta R.T. 0.006 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:152 Resp: 2324

Ion	Ratio	Lower	Upper
152	100		
150	154.8	123.2	184.8
115	69.9	56.6	85.0

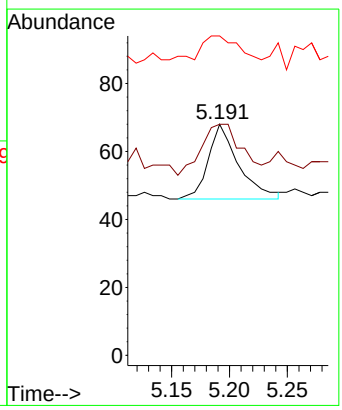


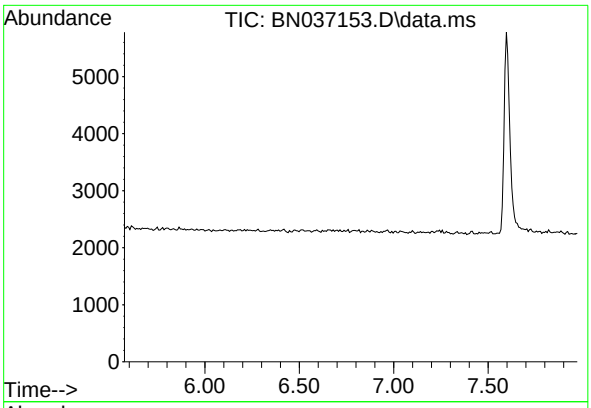


#4
2-Fluorophenol
Concen: 0.007 ng
RT: 5.191 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:112 Resp: 40

Ion	Ratio	Lower	Upper
112	100		
64	90.0	56.3	84.5#
63	65.0	36.2	54.4#





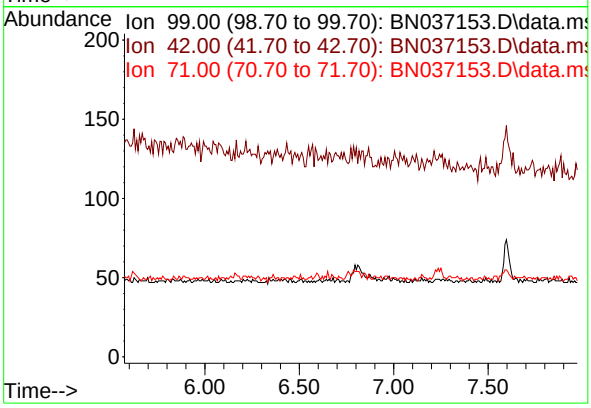
#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.77 min

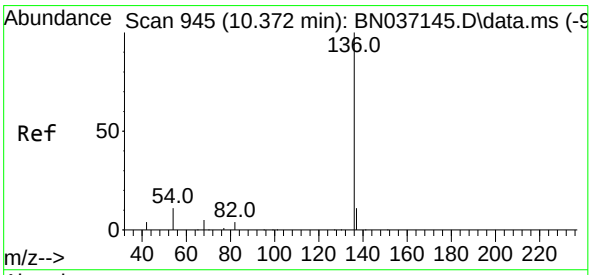
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

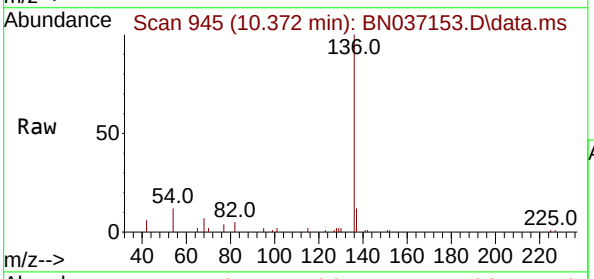
Instrument :
BNA_N
ClientSampleId :
38072-062624DL

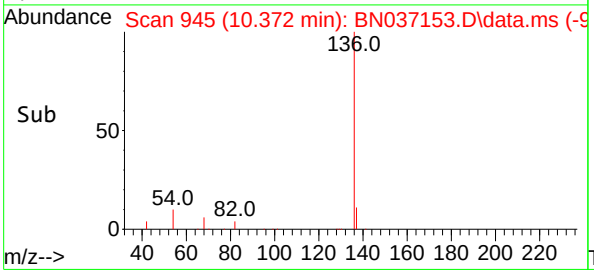
Tgt Ion: 99

Sig	Exp Ratio
99	100
42	39.1
71	47.7





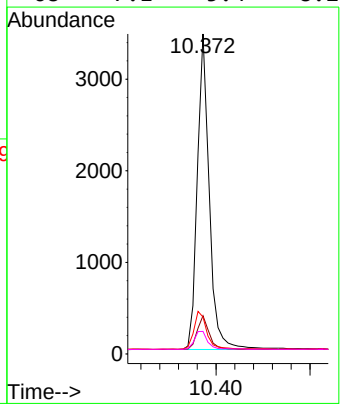


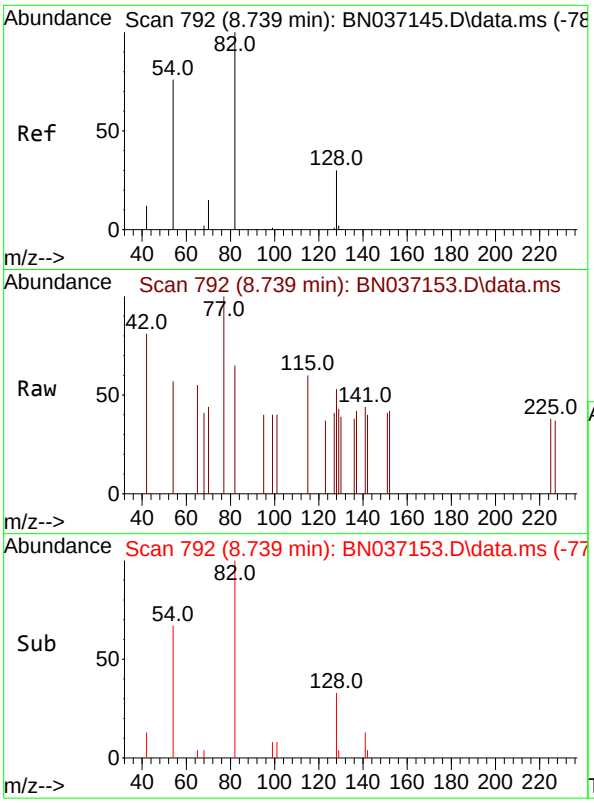


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:136 Resp: 6120

Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	11.5	9.7	14.5
68	7.1	5.4	8.2



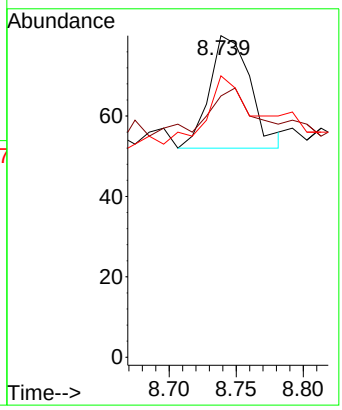


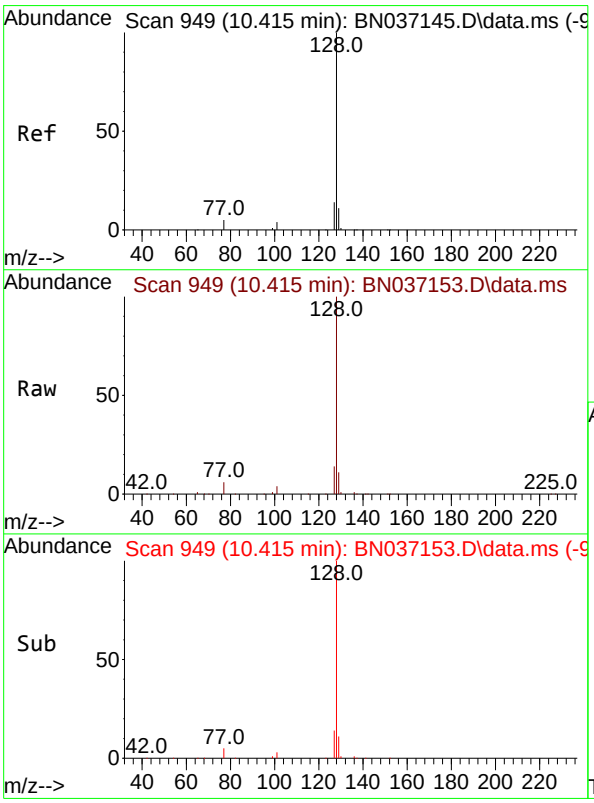
#8
Nitrobenzene-d5
Concen: 0.009 ng
RT: 8.739 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion: 82 Resp: 60

Ion	Ratio	Lower	Upper
82	100		
128	81.3	26.9	40.3#
54	87.5	61.4	92.2

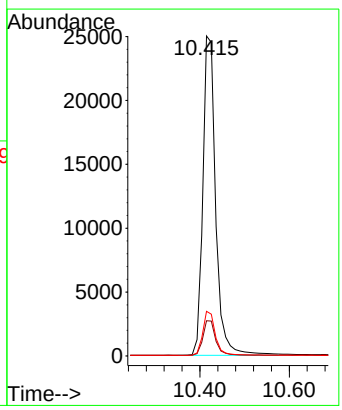


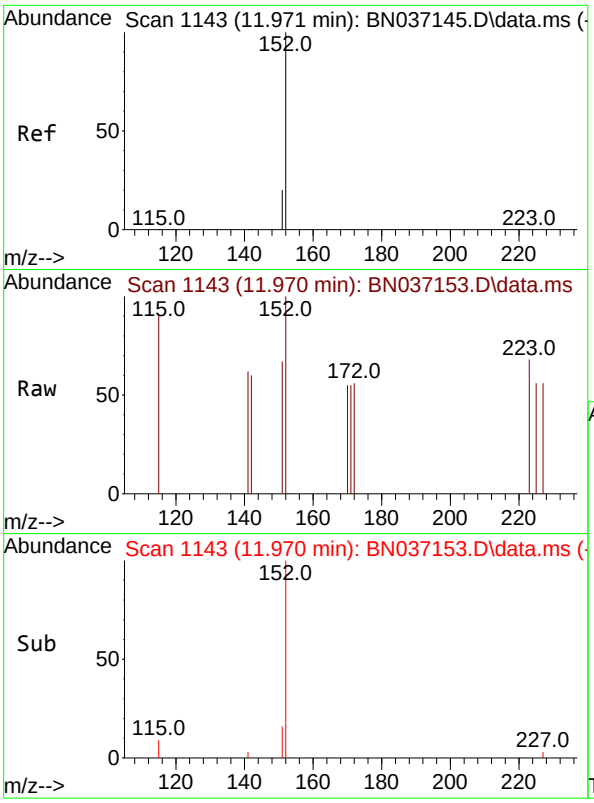


#9
Naphthalene
Concen: 2.816 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:128 Resp: 49727

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.8	14.8
127	14.0	12.3	18.5



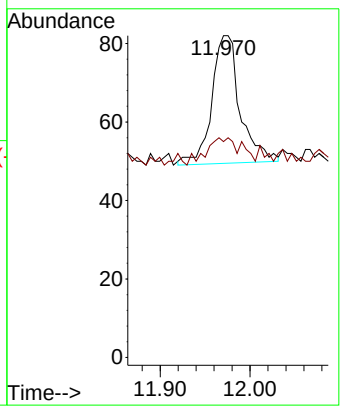


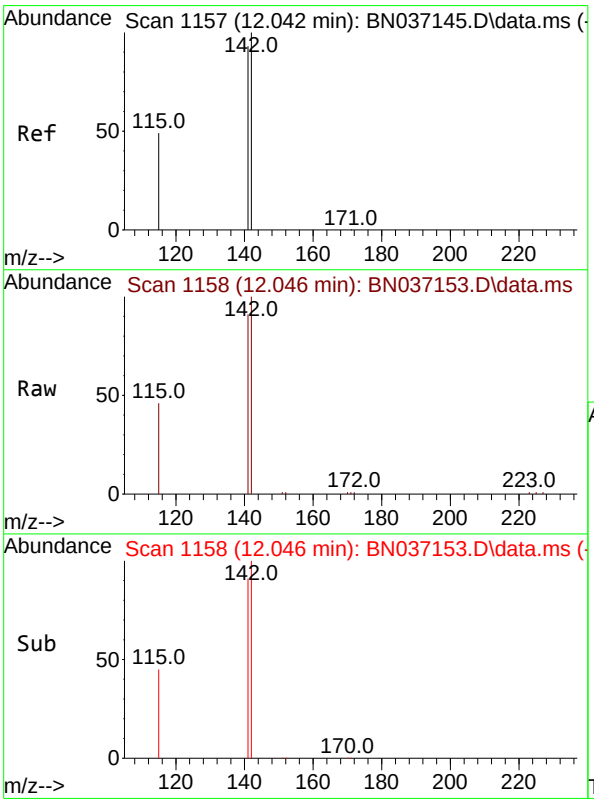
#11
2-Methylnaphthalene-d10
Concen: 0.008 ng
RT: 11.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:152 Resp: 72

Ion	Ratio	Lower	Upper
152	100		
151	20.8	17.1	25.7

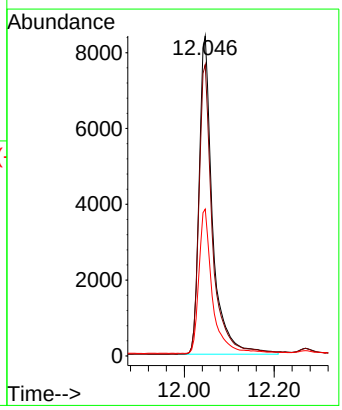


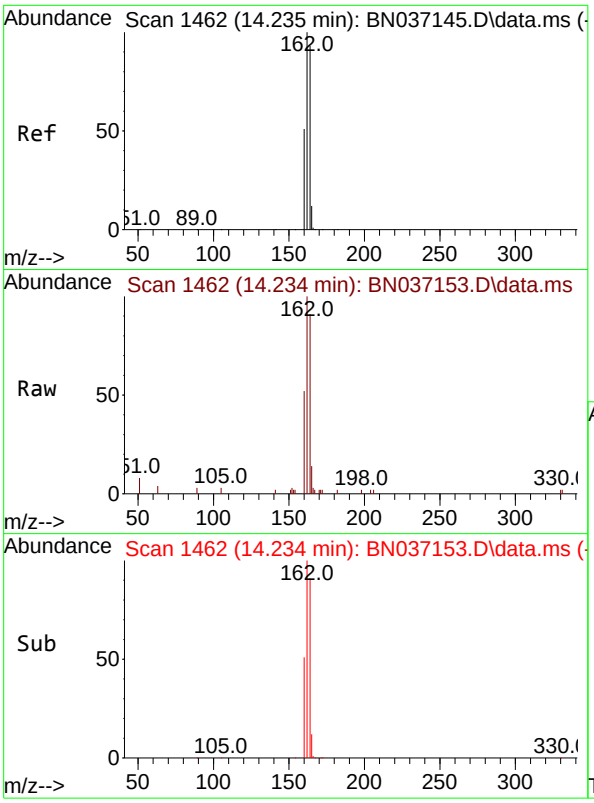


#12
2-Methylnaphthalene
Concen: 1.543 ng
RT: 12.046 min Scan# 1158
Delta R.T. 0.005 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:142 Resp: 17461

Ion	Ratio	Lower	Upper
142	100		
141	91.1	74.6	111.8
115	45.9	41.0	61.4



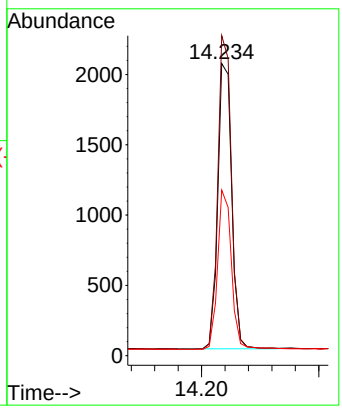


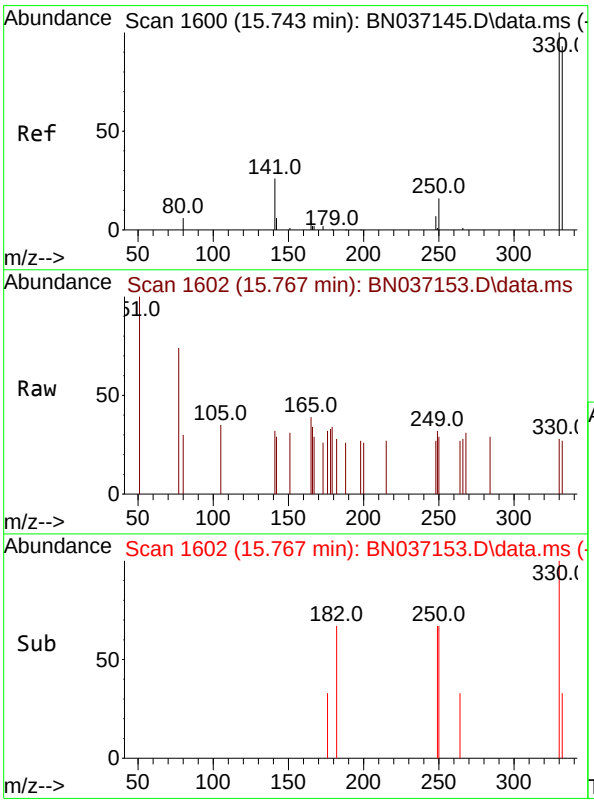
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:164 Resp: 3333

Ion	Ratio	Lower	Upper
164	100		
162	109.5	85.5	128.3
160	56.7	44.6	67.0

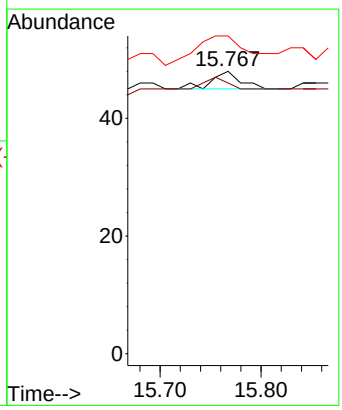


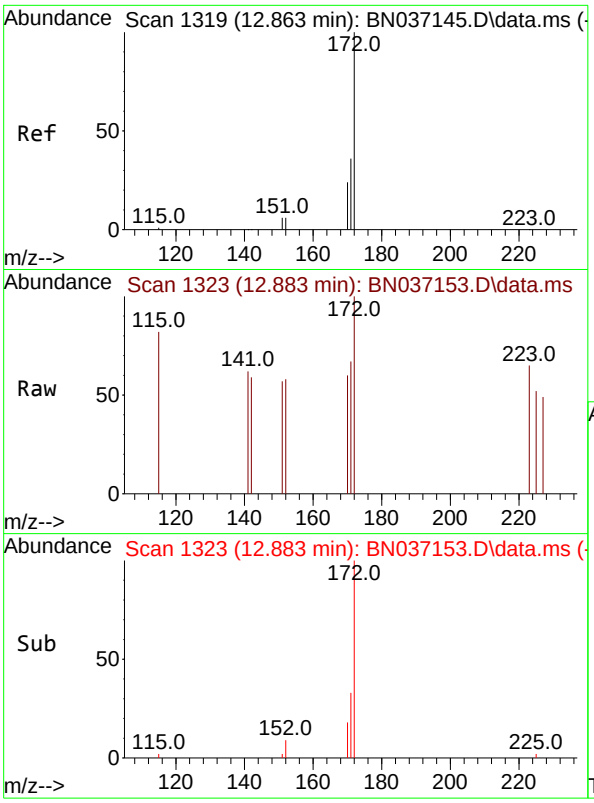


#14
2,4,6-Tribromophenol
Concen: 0.004 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.025 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:330 Resp: 6

Ion	Ratio	Lower	Upper
330	100		
332	50.0	77.1	115.7#
141	300.0	46.4	69.6#



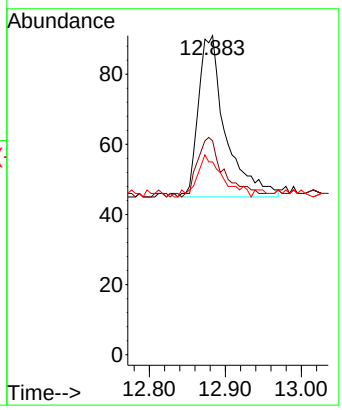


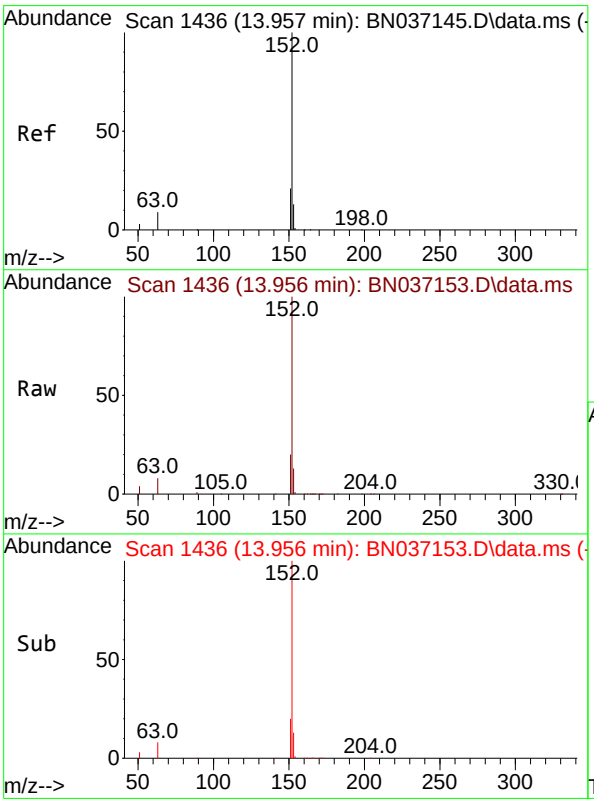
#15
2-Fluorobiphenyl
Concen: 0.008 ng
RT: 12.883 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:172 Resp: 114

Ion	Ratio	Lower	Upper
172	100		
171	67.0	29.6	44.4#
170	60.4	20.3	30.5#

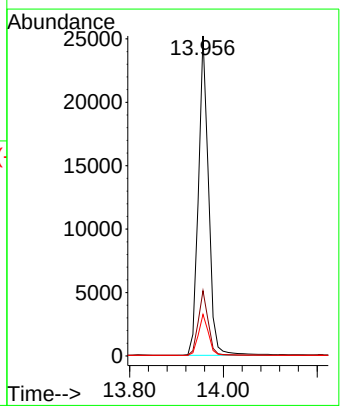


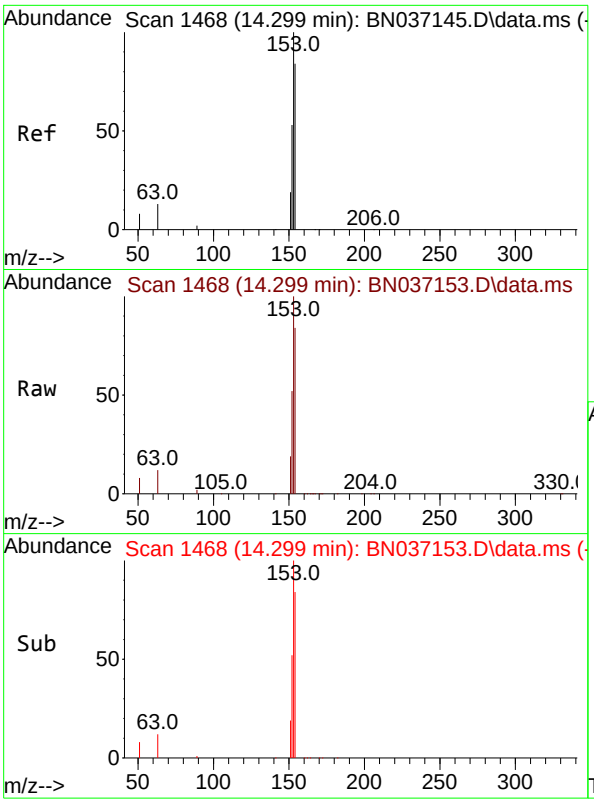


#16
Acenaphthylene
Concen: 2.310 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:152 Resp: 37740

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5
153	13.0	10.6	15.8



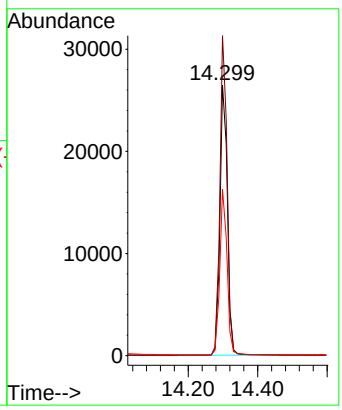


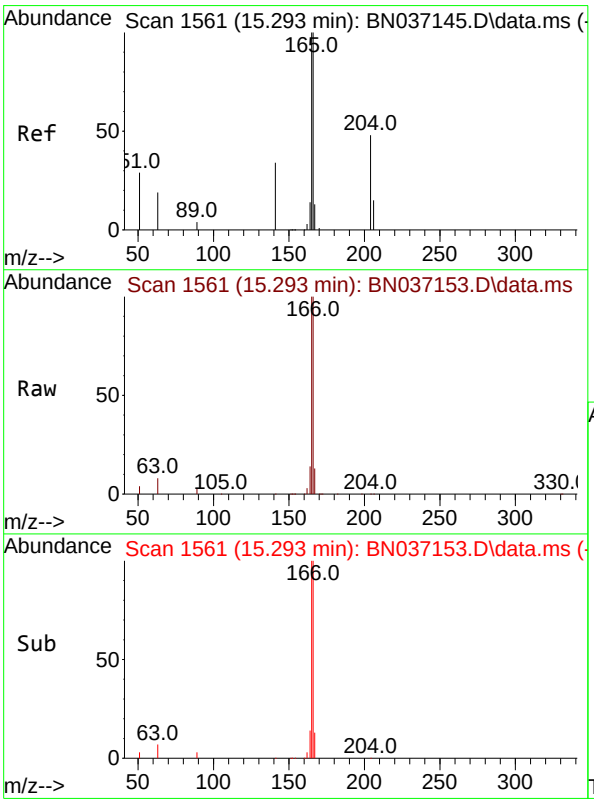
#17
Acenaphthene
Concen: 3.701 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:154 Resp: 39265

Ion	Ratio	Lower	Upper
154	100		
153	116.2	93.8	140.8
152	60.6	50.5	75.7

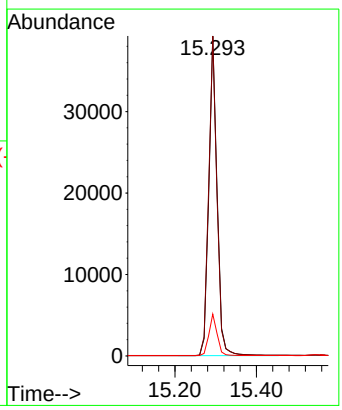


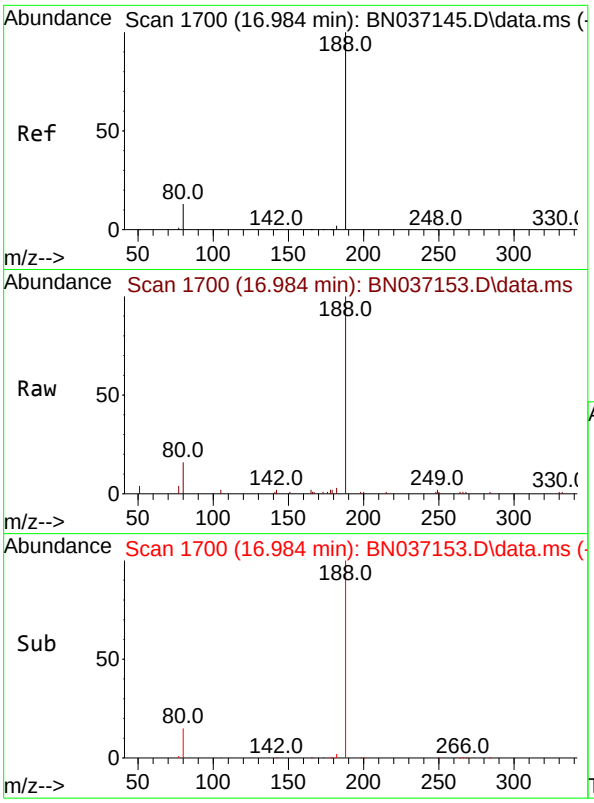


#18
Fluorene
Concen: 3.943 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:166 Resp: 54997

Ion	Ratio	Lower	Upper
166	100		
165	100.2	81.1	121.7
167	13.0	10.8	16.2



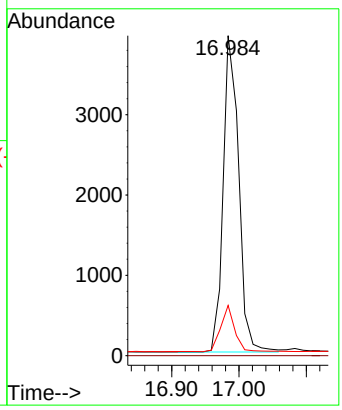


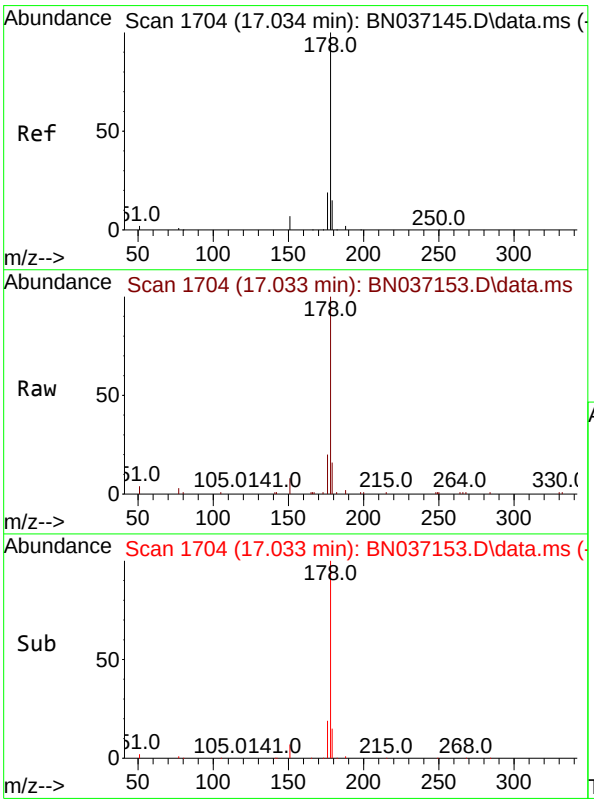
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:188 Resp: 6288

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.7	11.3	16.9

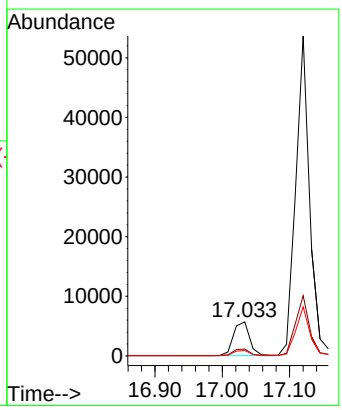


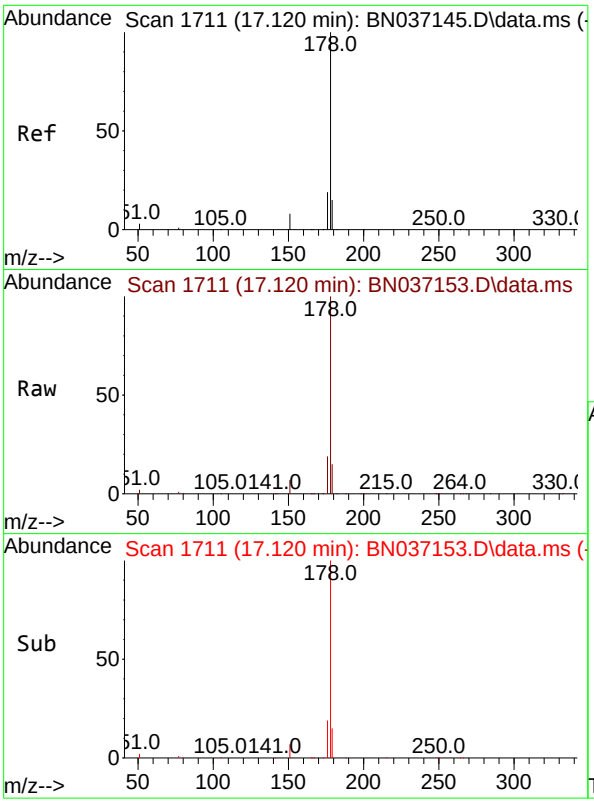


#25
Phenanthrene
Concen: 0.466 ng
RT: 17.033 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:178 Resp: 9486

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.1	12.3	18.5



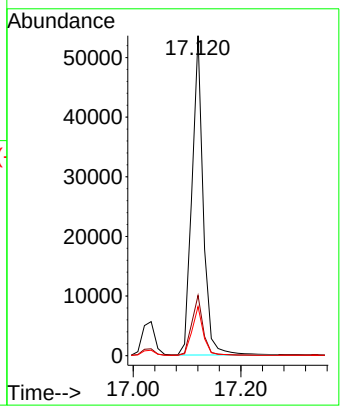


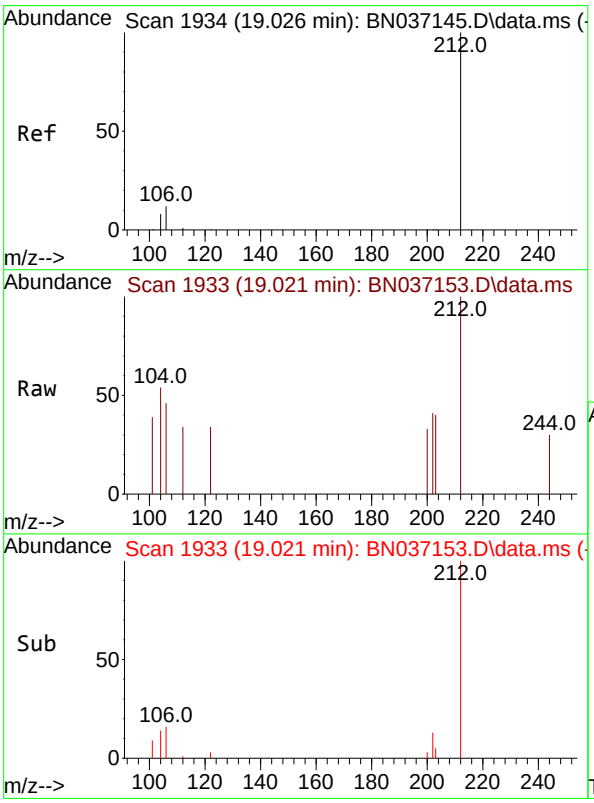
#26
Anthracene
Concen: 4.191 ng
RT: 17.120 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:178 Resp: 77911

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.2	12.9	19.3

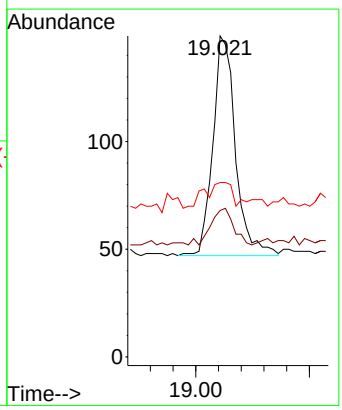


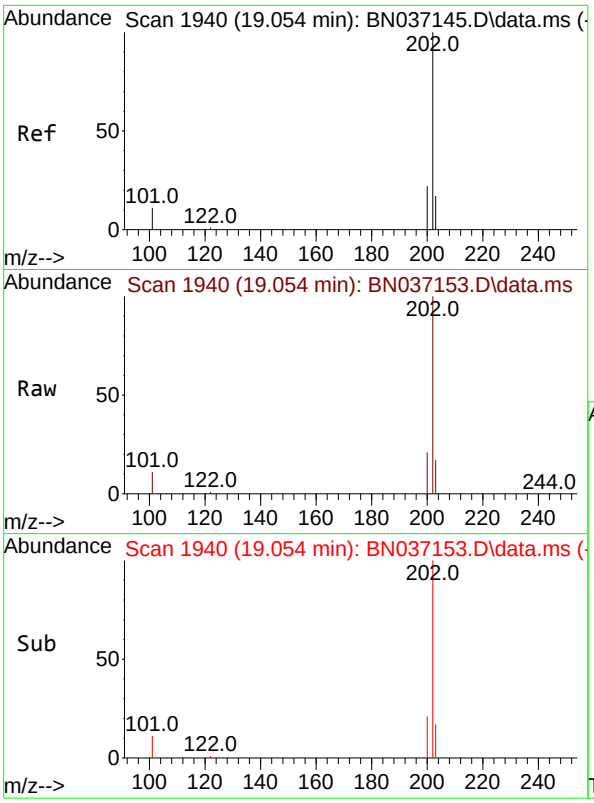


#27
Fluoranthene-d10
Concen: 0.009 ng
RT: 19.021 min Scan# 1933
Delta R.T. -0.005 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:212 Resp: 141

Ion	Ratio	Lower	Upper
212	100		
106	17.0	10.6	15.8#
104	14.2	6.6	9.8#



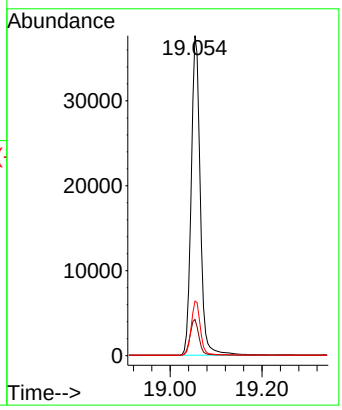


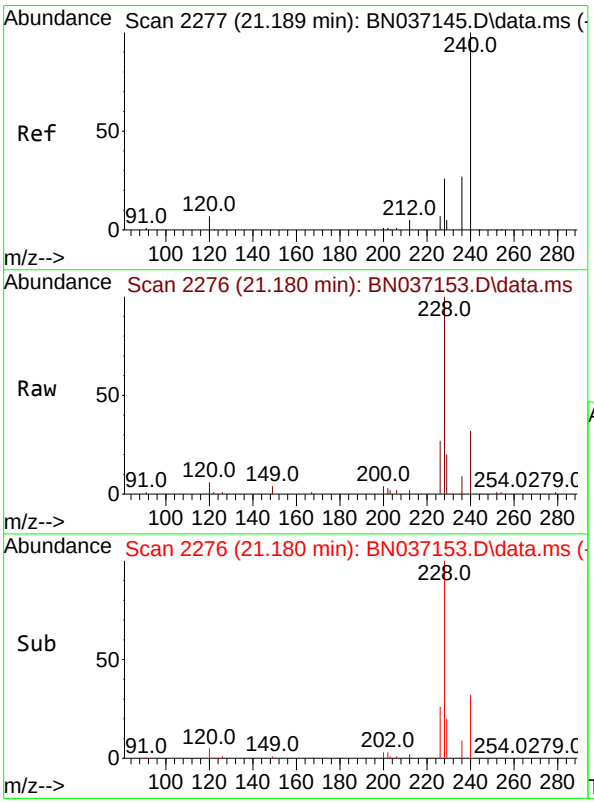
#28
Fluoranthene
Concen: 2.293 ng
RT: 19.054 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:202 Resp: 51595

Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.7	13.1
203	17.1	13.5	20.3

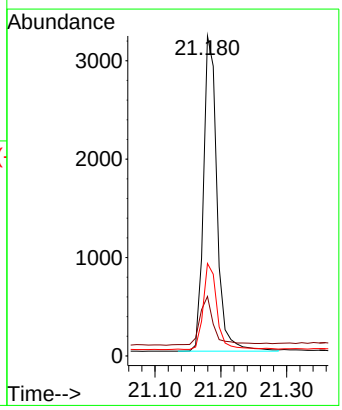


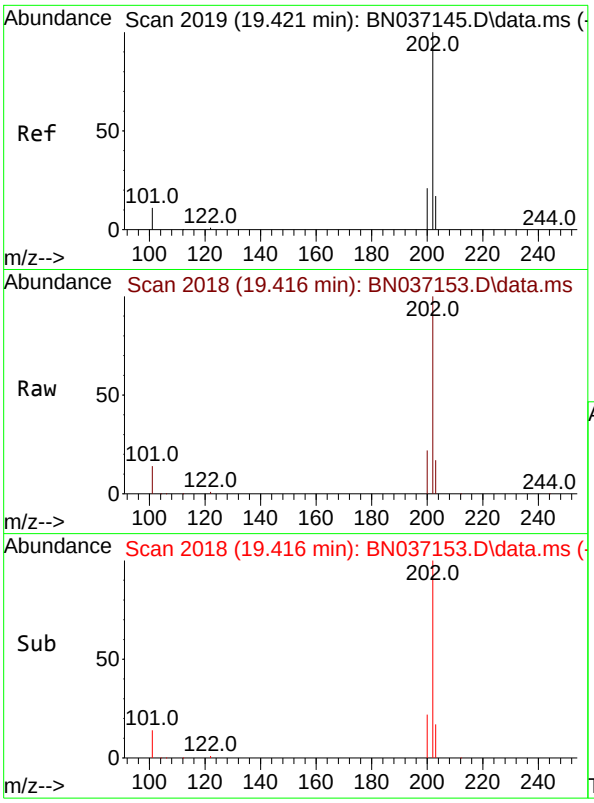


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.009 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:240 Resp: 4597

Ion	Ratio	Lower	Upper
240	100		
120	18.6	9.0	13.4#
236	28.9	23.0	34.4



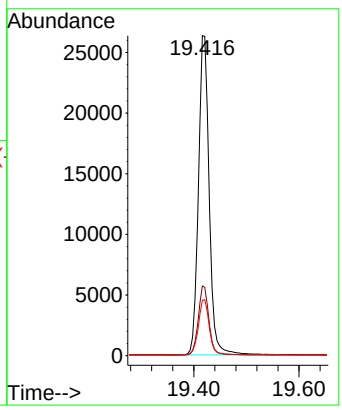


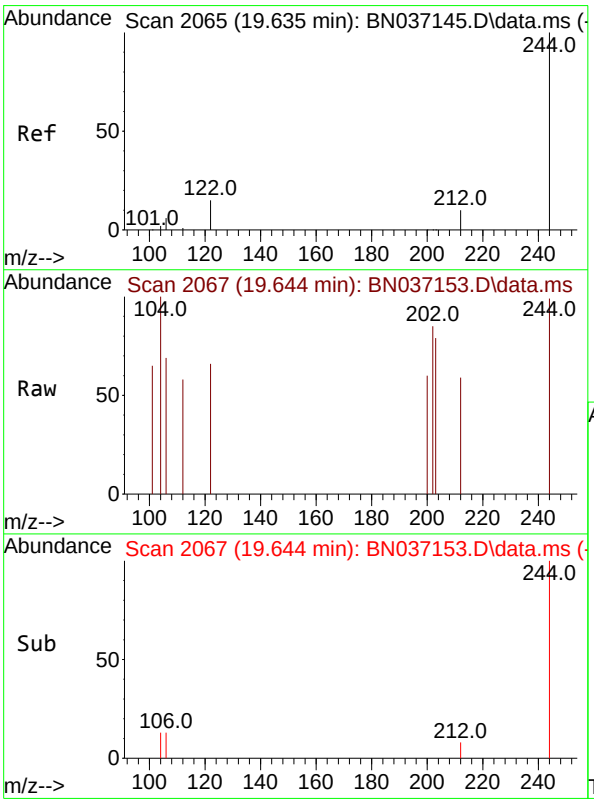
#30
Pyrene
Concen: 1.665 ng
RT: 19.416 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:202 Resp: 37373

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.7	14.2	21.4

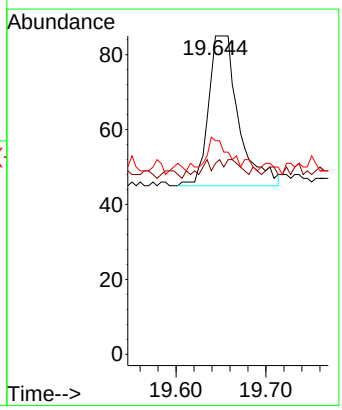


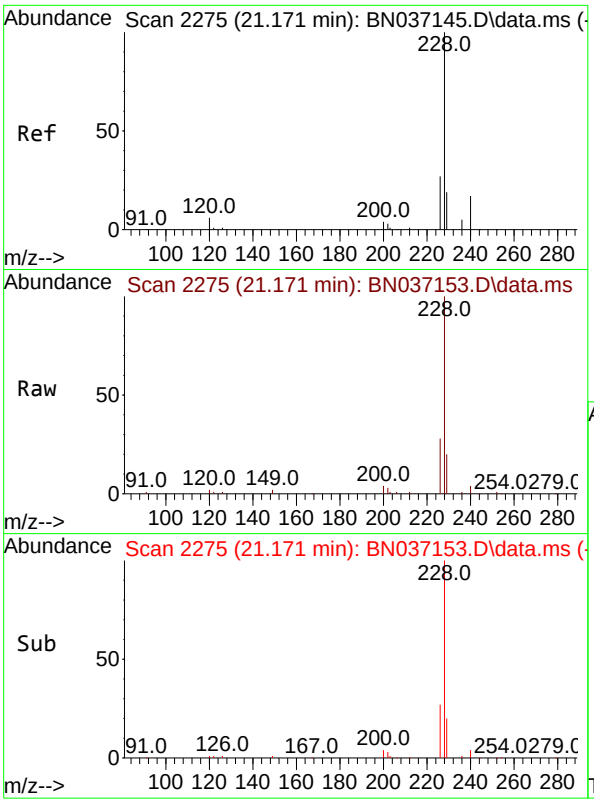


#31
Terphenyl-d14
Concen: 0.009 ng
RT: 19.644 min Scan# 2067
Delta R.T. 0.009 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:244 Resp: 93

Ion	Ratio	Lower	Upper
244	100		
212	60.0	10.0	15.0#
122	67.1	13.2	19.8#



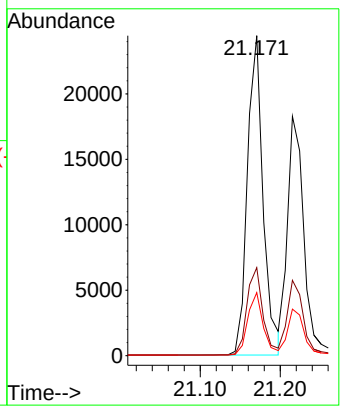


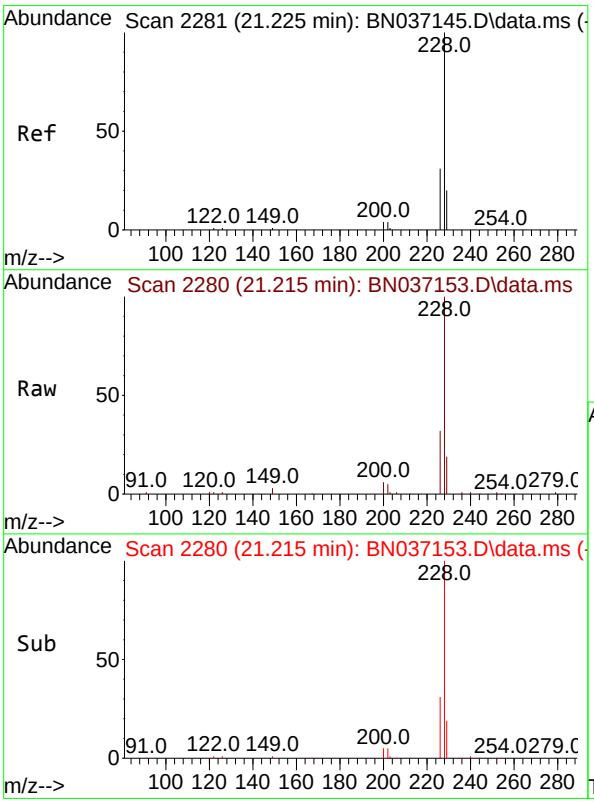
#32
Benzo(a)anthracene
Concen: 2.002 ng
RT: 21.171 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:228 Resp: 33315

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.6	33.8
229	19.7	16.2	24.2

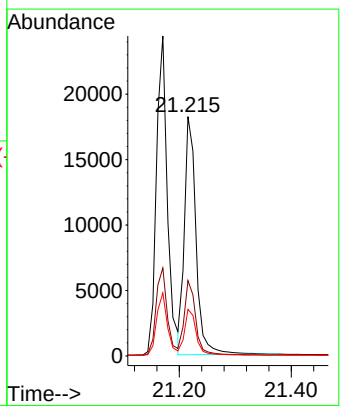


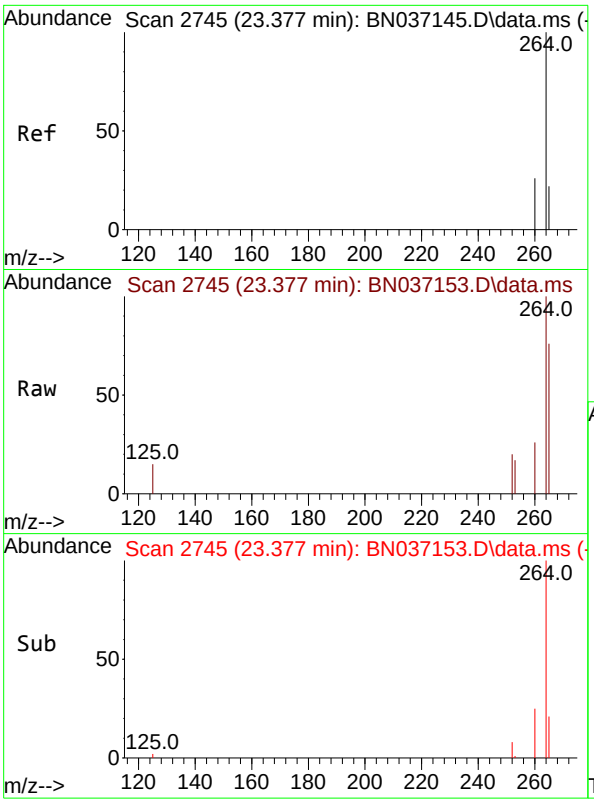


#33
Chrysene
Concen: 1.427 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.009 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:228 Resp: 26438

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.2	37.8
229	19.5	16.8	25.2



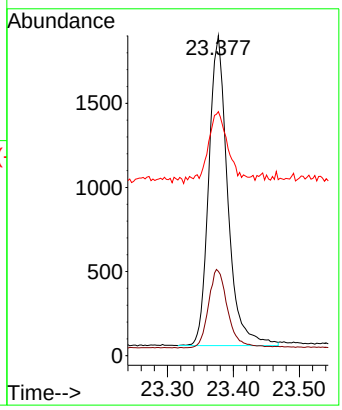


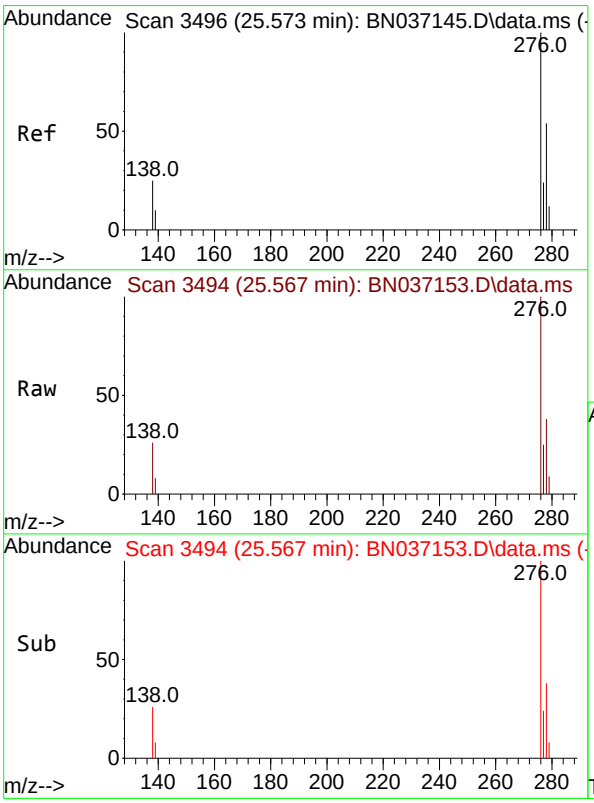
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.377 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:264 Resp: 3669

Ion	Ratio	Lower	Upper
264	100		
260	26.3	22.1	33.1
265	76.2	55.8	83.8

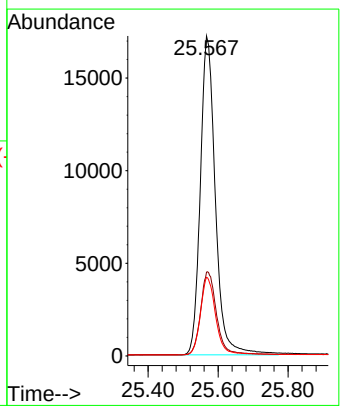


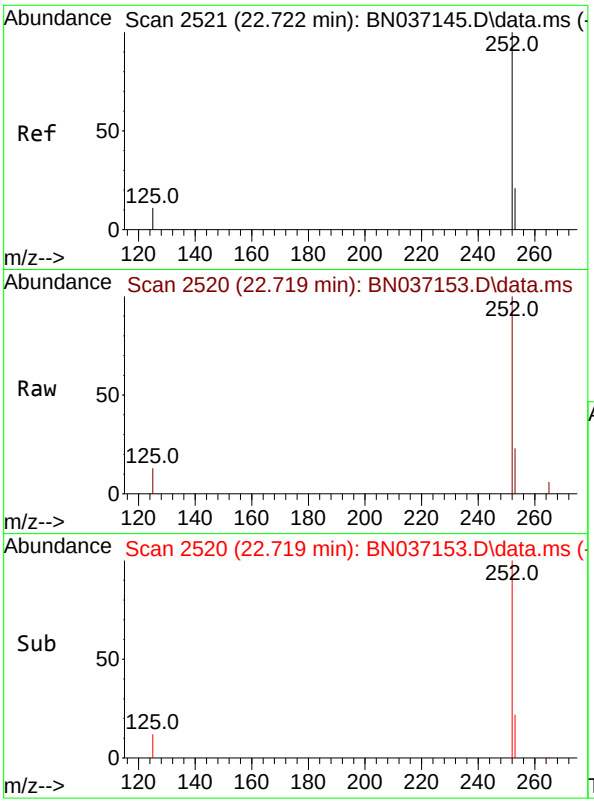


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.526 ng
RT: 25.567 min Scan# 3494
Delta R.T. -0.006 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:276 Resp: 51464

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.0	31.6
277	24.5	19.4	29.2



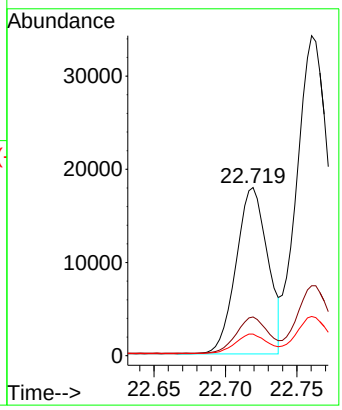


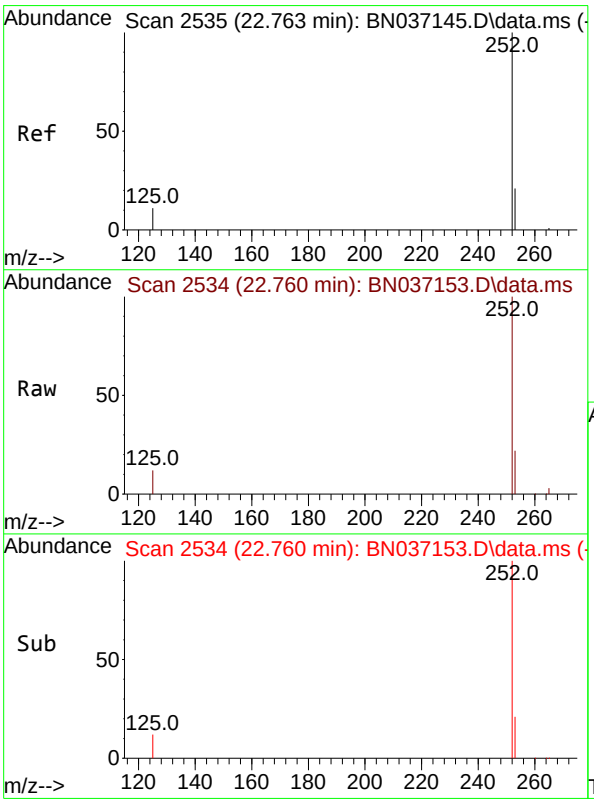
#37
Benzo(b)fluoranthene
Concen: 1.858 ng
RT: 22.719 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:252 Resp: 27512

Ion	Ratio	Lower	Upper
252	100		
253	23.0	22.3	33.5
125	12.9	13.2	19.8#

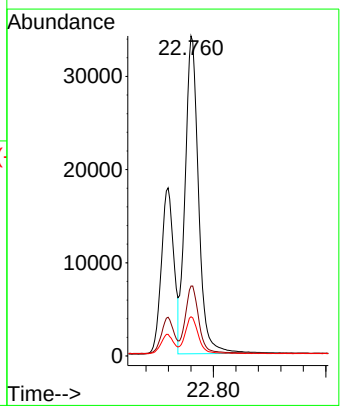


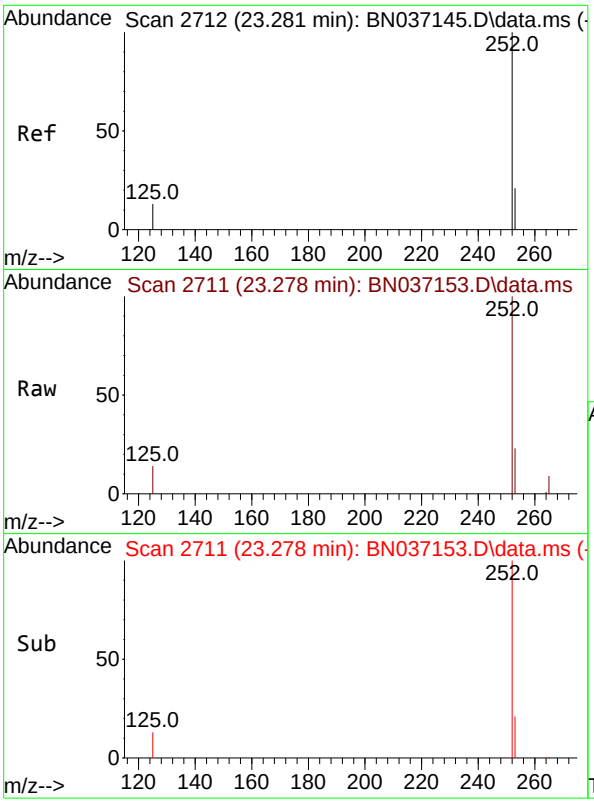


#38
Benzo(k)fluoranthene
Concen: 3.738 ng
RT: 22.760 min Scan# 2534
Delta R.T. -0.003 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:252 Resp: 56528

Ion	Ratio	Lower	Upper
252	100		
253	21.8	22.2	33.4#
125	12.3	13.2	19.8#



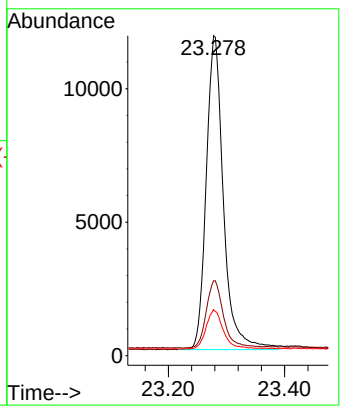


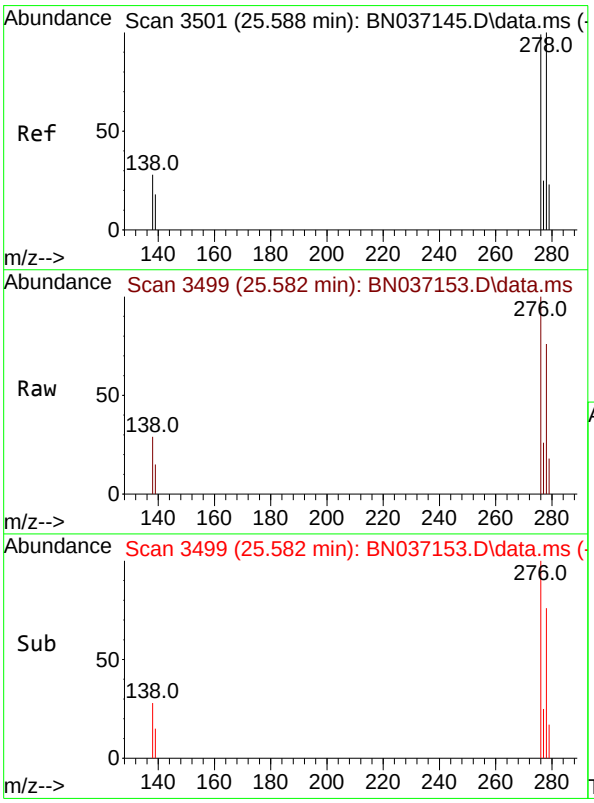
#39
Benzo(a)pyrene
Concen: 1.950 ng
RT: 23.278 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:252 Resp: 24186

Ion	Ratio	Lower	Upper
252	100		
253	23.4	25.0	37.4#
125	14.4	17.0	25.6#

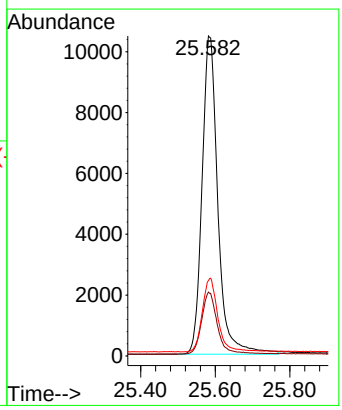


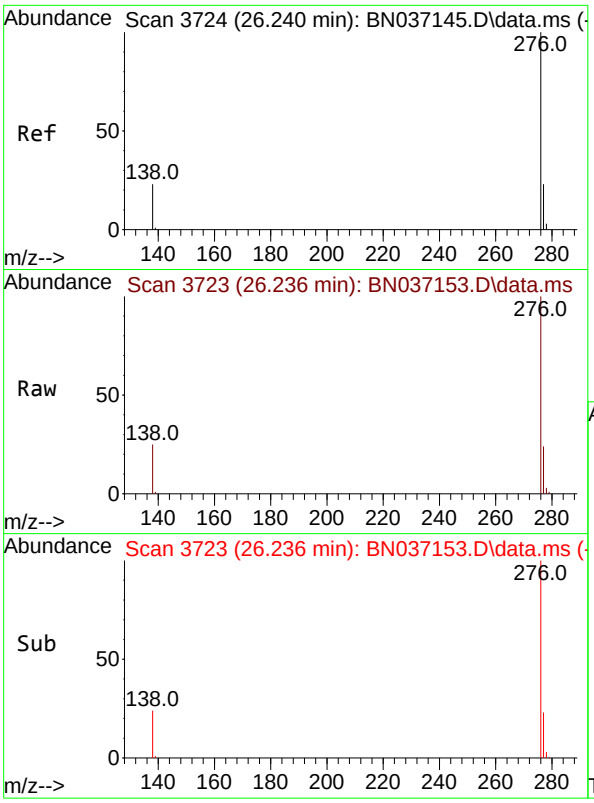


#40
Dibenzo(a,h)anthracene
Concen: 2.737 ng
RT: 25.582 min Scan# 3499
Delta R.T. -0.006 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Tgt Ion:278 Resp: 30813

Ion	Ratio	Lower	Upper
278	100		
139	19.9	17.6	26.4
279	23.6	26.0	39.0#



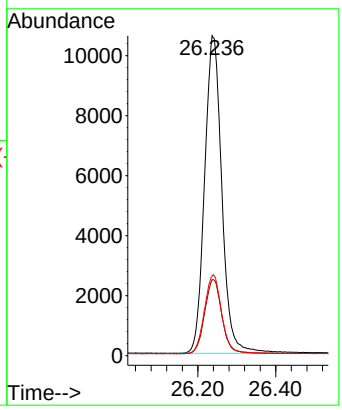


#41
Benzo(g,h,i)perylene
Concen: 2.517 ng
RT: 26.236 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037153.D
Acq: 03 Jun 2025 18:18

Instrument :
BNA_N
ClientSampleId :
38072-062624DL

Tgt Ion:276 Resp: 32541

Ion	Ratio	Lower	Upper
276	100		
277	23.8	20.9	31.3
138	24.9	20.8	31.2



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN060325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 04 01:52:03 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037143.D 0.2 =BN037144.D 0.4 =BN037145.D 0.8 =BN037146.D 1.6 =BN037147.D 3.2 =BN037148.D 5.0 =BN037149.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.598	0.657	0.510	0.506	0.526	0.477	0.458	0.533	13.16
3)		n-Nitrosodimet...	1.098	1.031	1.061	1.067	1.163	1.061	1.012	1.071	4.60
4)	S	2-Fluorophenol	1.027	1.017	0.940	0.945	1.036	0.984	0.975	0.989	3.91
5)	S	Phenol-d6	1.156	1.144	1.127	1.126	1.293	1.261	1.285	1.199	6.42
6)		bis(2-Chloroet...	1.138	1.139	1.128	1.089	1.223	1.146	1.146	1.144	3.51
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.393	0.383	0.421	0.407	0.455	0.450	0.446	0.422	6.86
9)		Naphthalene	1.183	1.125	1.119	1.111	1.215	1.165	1.160	1.154	3.31
10)		Hexachlorobuta...	0.253	0.249	0.261	0.247	0.266	0.246	0.238	0.251	3.81
11)	SURR	2-Methylnaphth...	0.520	0.515	0.562	0.536	0.598	0.577	0.588	0.557	5.97
12)		2-Methylnaphth...	0.704	0.680	0.691	0.719	0.809	0.783	0.793	0.740	7.22
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.124	0.147	0.146	0.157	0.185	0.182	0.186	0.161	15.03
15)	S	2-Fluorobiphenyl	1.722	1.691	1.626	1.654	1.814	1.706	1.725	1.705	3.52
16)		Acenaphthylene	1.946	1.905	1.768	1.871	2.112	2.050	2.075	1.961	6.32
17)		Acenaphthene	1.290	1.253	1.159	1.212	1.370	1.309	1.320	1.273	5.59
18)		Fluorene	1.701	1.577	1.518	1.611	1.823	1.736	1.752	1.674	6.48
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.039	0.050	0.067	0.090	0.102	0.114	0.077	38.58	
21)		4-Bromophenyl-...	0.256	0.253	0.244	0.254	0.281	0.276	0.271	0.262	5.32
22)		Hexachlorobenzene	0.289	0.284	0.269	0.279	0.301	0.284	0.274	0.283	3.72
23)		Atrazine	0.194	0.200	0.187	0.209	0.241	0.238	0.247	0.216	11.42
24)		Pentachlorophenol	0.086	0.092	0.107	0.140	0.153	0.165	0.124	26.72	
25)		Phenanthrene	1.285	1.242	1.193	1.248	1.386	1.357	1.361	1.296	5.64
26)		Anthracene	1.098	1.099	1.036	1.143	1.294	1.290	1.317	1.183	9.71
27)	SURR	Fluoranthene-d10	0.969	0.937	0.975	0.956	1.092	1.071	1.114	1.016	7.22
28)		Fluoranthene	1.339	1.294	1.277	1.365	1.579	1.563	1.605	1.432	10.09
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	2.051	1.974	1.827	1.928	2.048	1.955	1.885	1.953	4.20
31)	S	Terphenyl-d14	0.964	0.909	0.896	0.941	1.006	0.952	0.923	0.942	3.96
32)		Benzo(a)anthra...	1.369	1.367	1.291	1.404	1.582	1.553	1.570	1.448	8.15
33)		Chrysene	1.755	1.636	1.473	1.582	1.698	1.584	1.556	1.612	5.81
34)		Bis(2-ethylhex...	1.032	0.859	0.774	0.858	0.956	0.914	1.002	0.914	9.90
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN060325.M

36)		Indeno(1,2,3-c...	1.443	1.605	1.501	1.526	1.695	1.673	1.697	1.591	6.44
37)		Benzo(b)fluora...	1.529	1.520	1.421	1.575	1.763	1.713	1.781	1.615	8.58
38)		Benzo(k)fluora...	1.576	1.565	1.461	1.612	1.777	1.743	1.805	1.648	7.79
39)	C	Benzo(a)pyrene	1.310	1.287	1.219	1.294	1.451	1.426	1.481	1.352	7.32
40)		Dibenzo(a,h)an...	1.074	1.167	1.160	1.196	1.333	1.332	1.328	1.227	8.48
41)		Benzo(g,h,i)pe...	1.368	1.450	1.351	1.372	1.477	1.424	1.425	1.410	3.33

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037143.D
Acq On : 03 Jun 2025 11:39
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 04 01:41:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.590	152	2014	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	4942	0.400	ng		0.00
13) Acenaphthene-d10	14.235	164	2688	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	5431	0.400	ng		0.00
29) Chrysene-d12	21.189	240	3598	0.400	ng	#	0.00
35) Perylene-d12	23.380	264	3208	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	517	0.104	ng		0.00
5) Phenol-d6	6.766	99	582	0.096	ng		0.00
8) Nitrobenzene-d5	8.739	82	486	0.093	ng		0.00
11) 2-Methylnaphthalene-d10	11.966	152	643	0.093	ng		0.00
14) 2,4,6-Tribromophenol	15.743	330	83	0.077	ng		0.00
15) 2-Fluorobiphenyl	12.858	172	1157	0.101	ng		0.00
27) Fluoranthene-d10	19.026	212	1316	0.095	ng		0.00
31) Terphenyl-d14	19.635	244	867	0.102	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.119	88	301	0.112	ng		97
3) n-Nitrosodimethylamine	3.444	42	553	0.103	ng		95
6) bis(2-Chloroethyl)ether	7.019	93	573	0.099	ng		95
9) Naphthalene	10.415	128	1462	0.103	ng	#	93
10) Hexachlorobutadiene	10.703	225	312	0.100	ng	#	98
12) 2-Methylnaphthalene	12.042	142	870	0.095	ng		97
16) Acenaphthylene	13.957	152	1308	0.099	ng		100
17) Acenaphthene	14.299	154	867	0.101	ng		99
18) Fluorene	15.293	166	1143	0.102	ng		99
21) 4-Bromophenyl-phenylether	16.190	248	347	0.097	ng		96
22) Hexachlorobenzene	16.301	284	392	0.102	ng		99
23) Atrazine	16.463	200	264	0.090	ng	#	91
25) Phenanthrene	17.034	178	1745	0.099	ng		98
26) Anthracene	17.120	178	1491	0.093	ng		98
28) Fluoranthene	19.054	202	1818	0.094	ng		99
30) Pyrene	19.421	202	1845	0.105	ng		99
32) Benzo(a)anthracene	21.171	228	1231	0.095	ng		93
33) Chrysene	21.225	228	1579	0.109	ng		97
34) Bis(2-ethylhexyl)phtha...	21.117	149	928	0.113	ng		97
36) Indeno(1,2,3-cd)pyrene	25.576	276	1157	0.091	ng		97
37) Benzo(b)fluoranthene	22.725	252	1226	0.095	ng	#	65
38) Benzo(k)fluoranthene	22.766	252	1264	0.096	ng	#	64
39) Benzo(a)pyrene	23.284	252	1051	0.097	ng	#	52
40) Dibenzo(a,h)anthracene	25.594	278	861	0.087	ng	#	56
41) Benzo(g,h,i)perylene	26.248	276	1097	0.097	ng	#	82

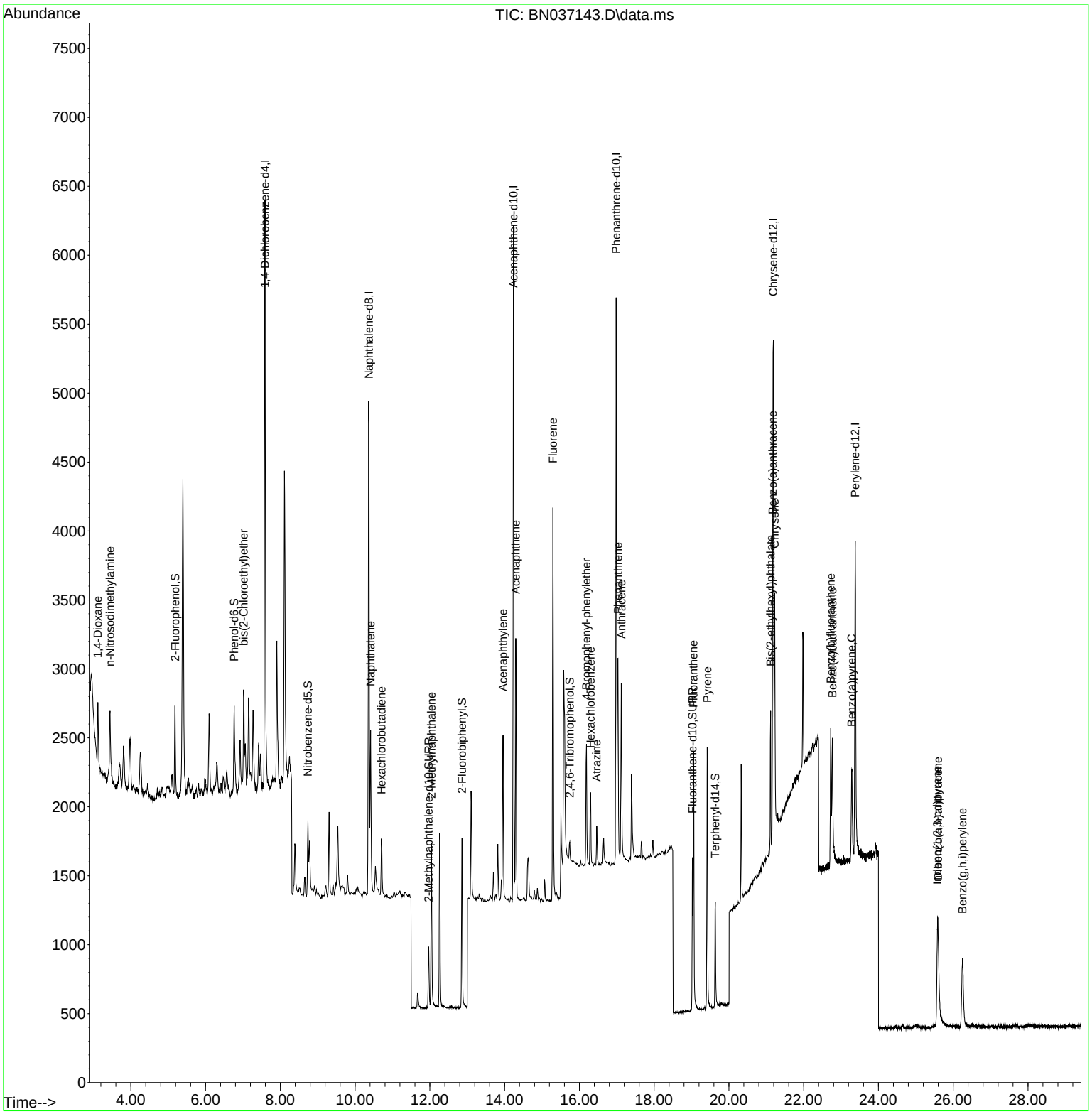
(#) = qualifier out of range (m) = manual integration (+) = signals summed

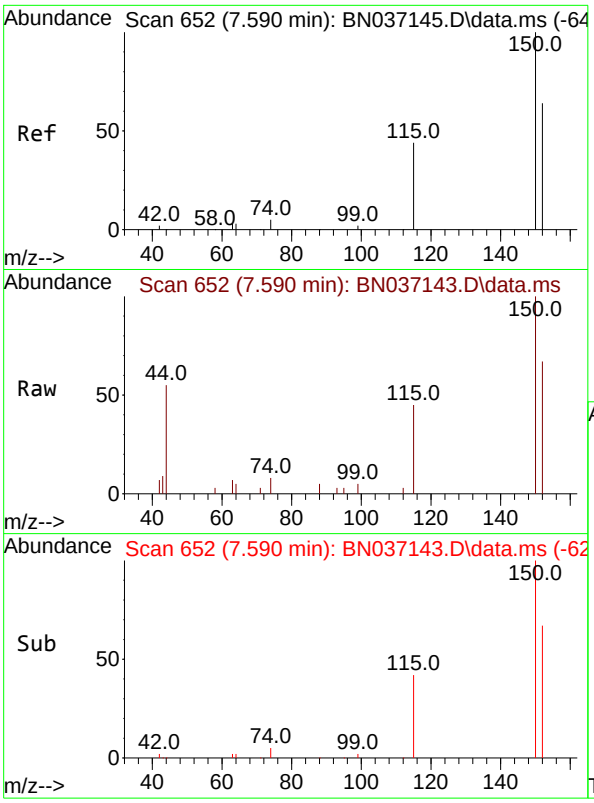
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037143.D
Acq On : 03 Jun 2025 11:39
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 04 01:41:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration



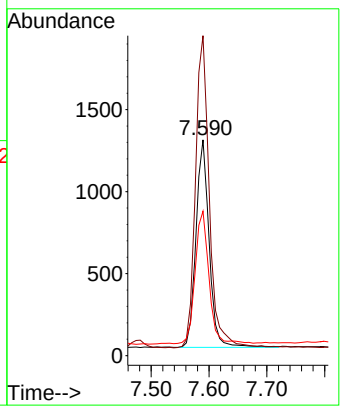


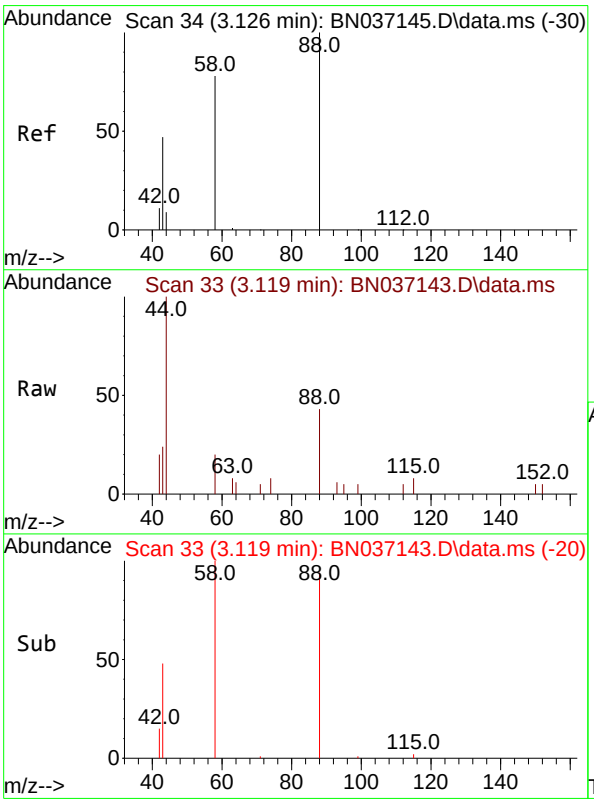
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.590 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2014

Ion	Ratio	Lower	Upper
152	100		
150	148.3	123.2	184.8
115	66.9	56.6	85.0

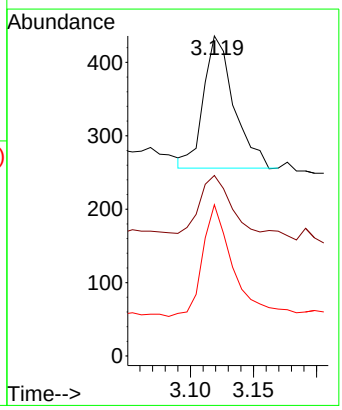


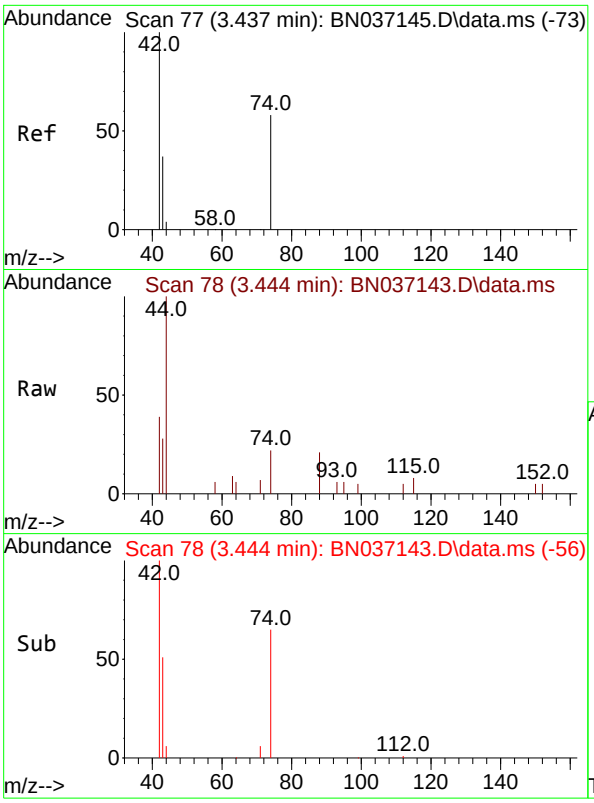


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion: 88 Resp: 301

Ion	Ratio	Lower	Upper
88	100		
43	58.8	43.5	65.3
58	85.4	67.7	101.5



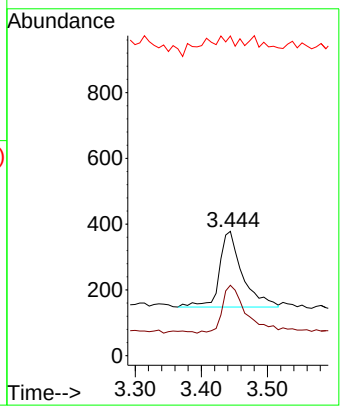


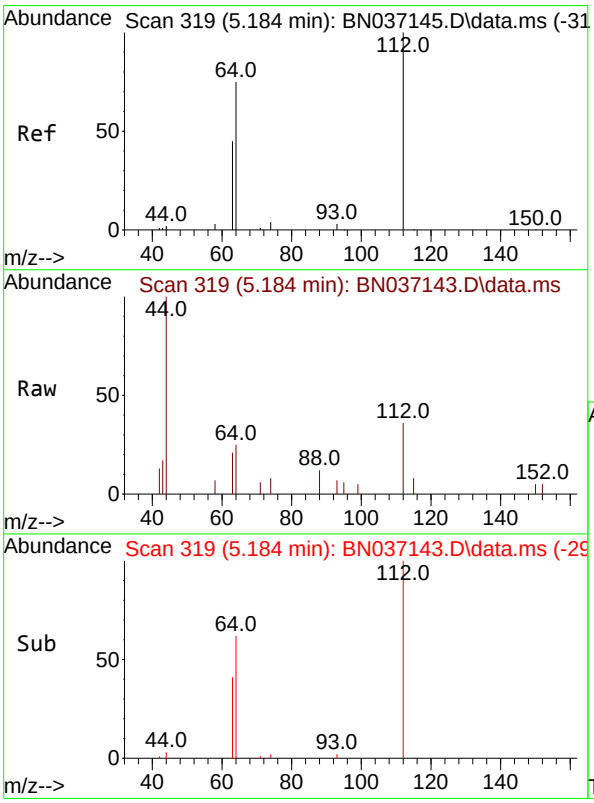
#3
n-Nitrosodimethylamine
Concen: 0.103 ng
RT: 3.444 min Scan# 7
Delta R.T. 0.007 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 553

Ion	Ratio	Lower	Upper
42	100		
74	70.2	53.0	79.4
44	6.9	5.9	8.9

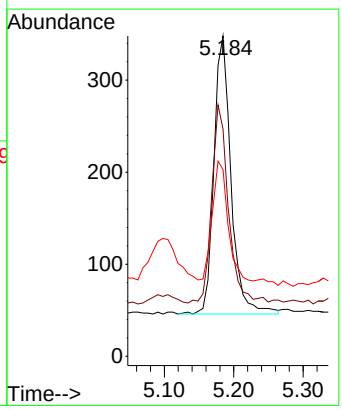


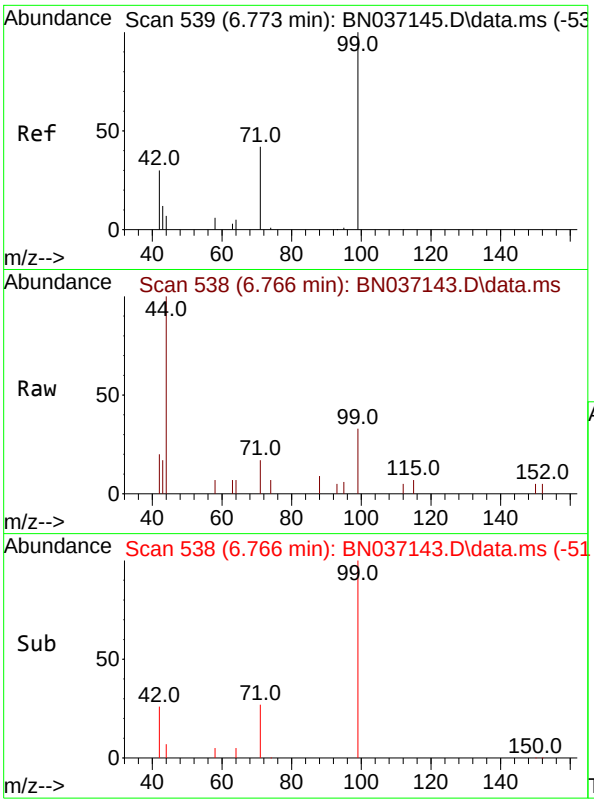


#4
2-Fluorophenol
Concen: 0.104 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:112 Resp: 517

Ion	Ratio	Lower	Upper
112	100		
64	70.8	56.3	84.5
63	39.7	36.2	54.4



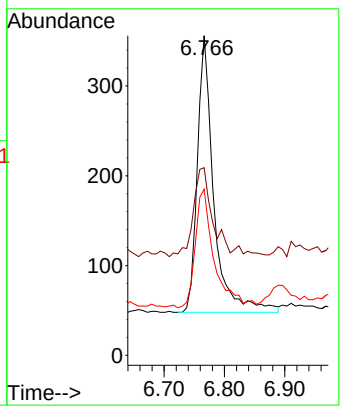


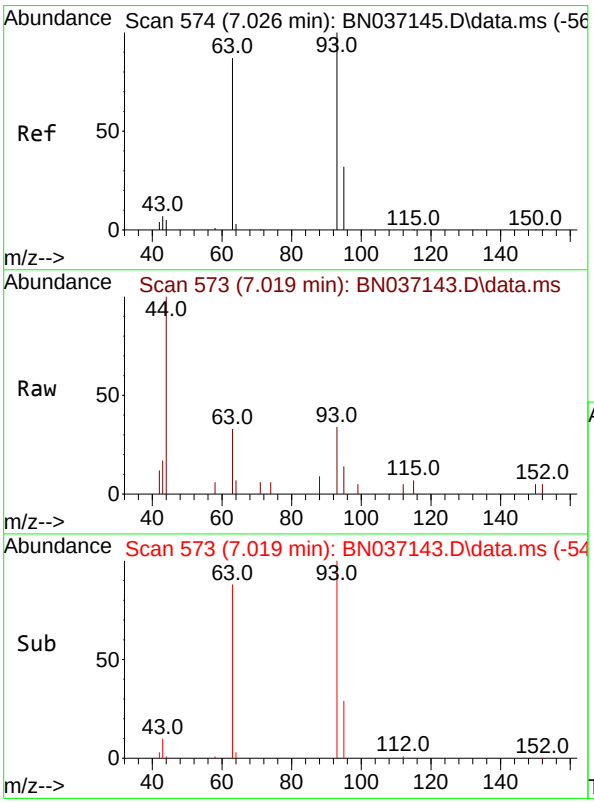
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.766 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 582

Ion	Ratio	Lower	Upper
99	100		
42	37.3	31.3	46.9
71	49.7	38.2	57.2

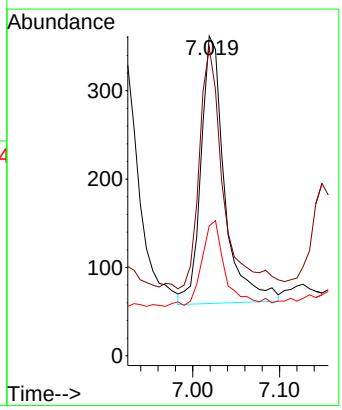


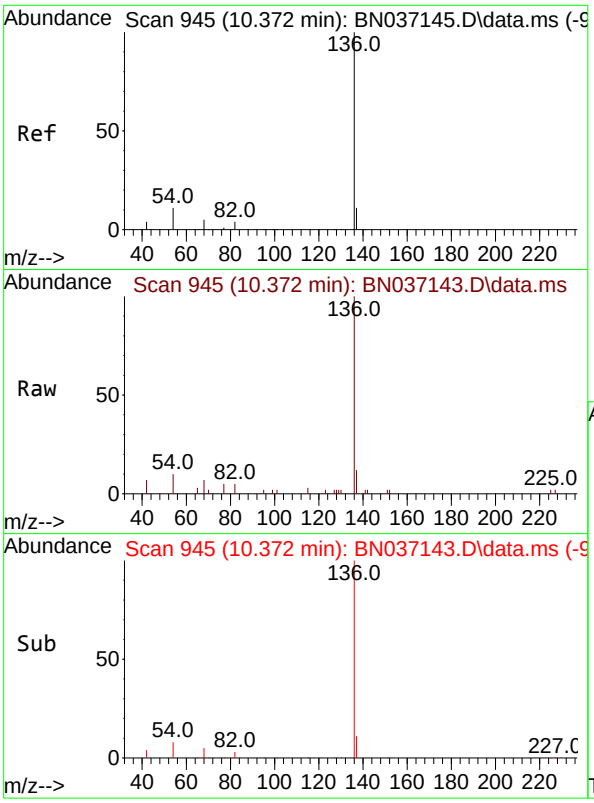


#6
bis(2-Chloroethyl)ether
Concen: 0.099 ng
RT: 7.019 min Scan# 573
Delta R.T. -0.007 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion: 93 Resp: 573

Ion	Ratio	Lower	Upper
93	100		
63	91.4	68.6	103.0
95	31.6	24.3	36.5



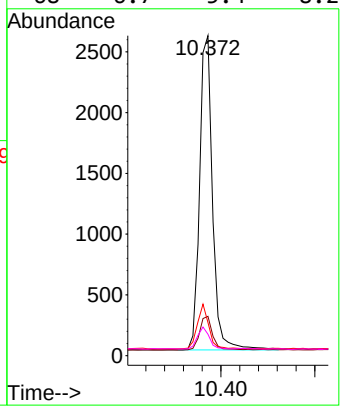


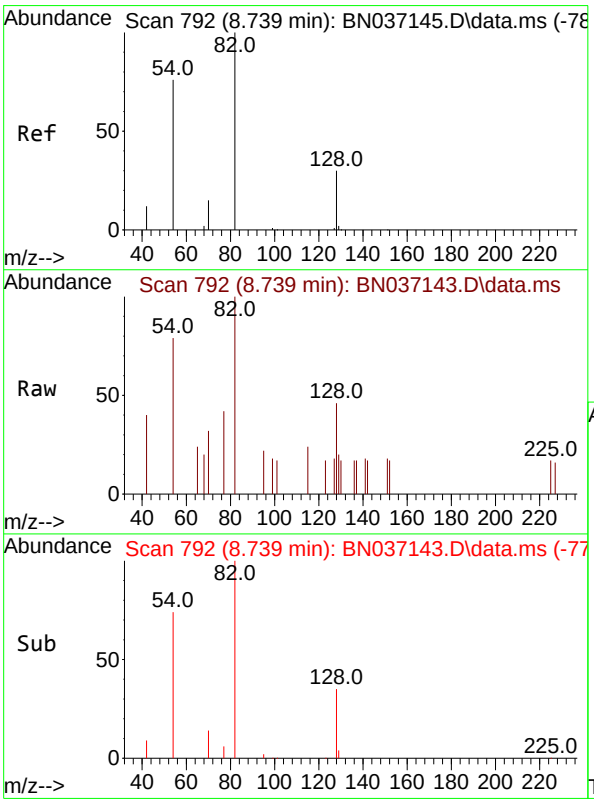
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 4942

Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	10.3	9.7	14.5
68	6.7	5.4	8.2

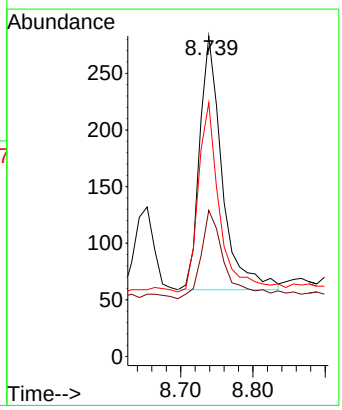


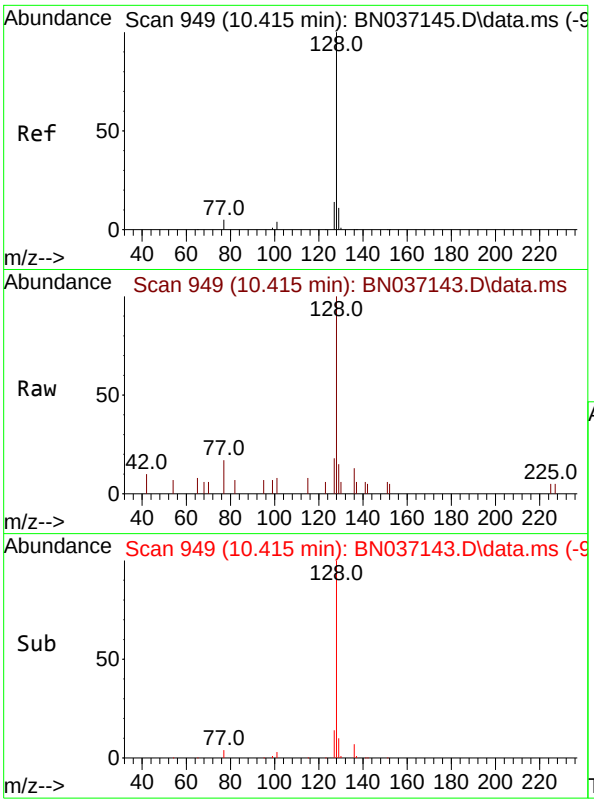


#8
Nitrobenzene-d5
Concen: 0.093 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion: 82 Resp: 486

Ion	Ratio	Lower	Upper
82	100		
128	45.6	26.9	40.3#
54	79.2	61.4	92.2



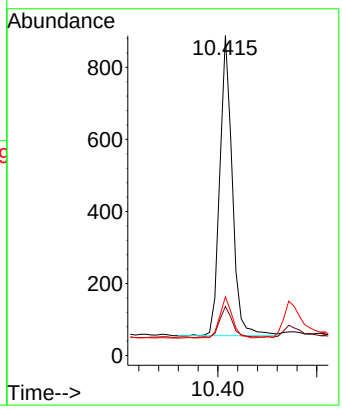


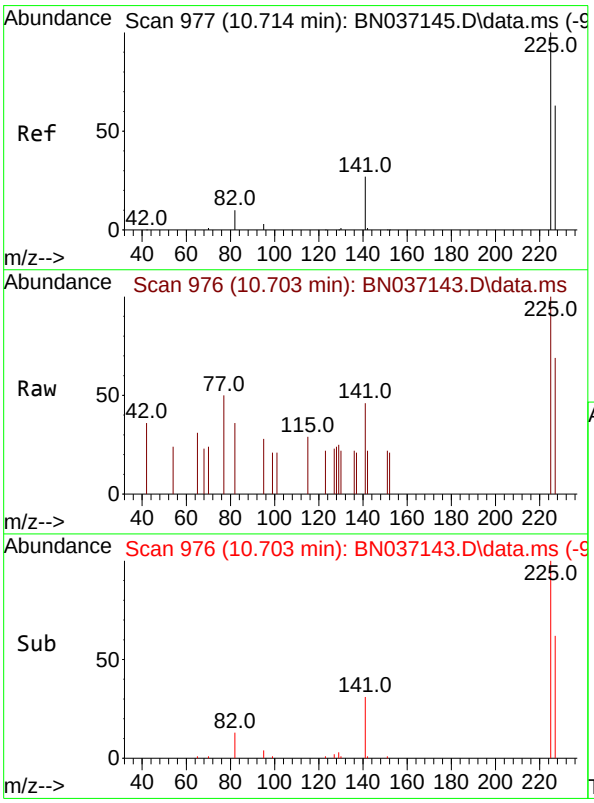
#9
Naphthalene
Concen: 0.103 ng
RT: 10.415 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1462

Ion	Ratio	Lower	Upper
128	100		
129	15.3	9.8	14.8#
127	18.4	12.3	18.5

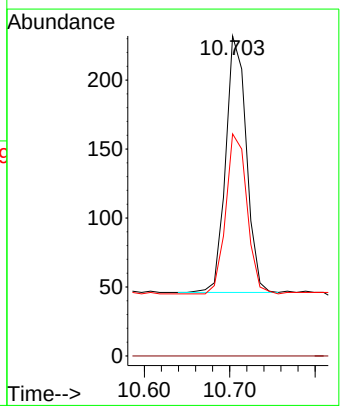


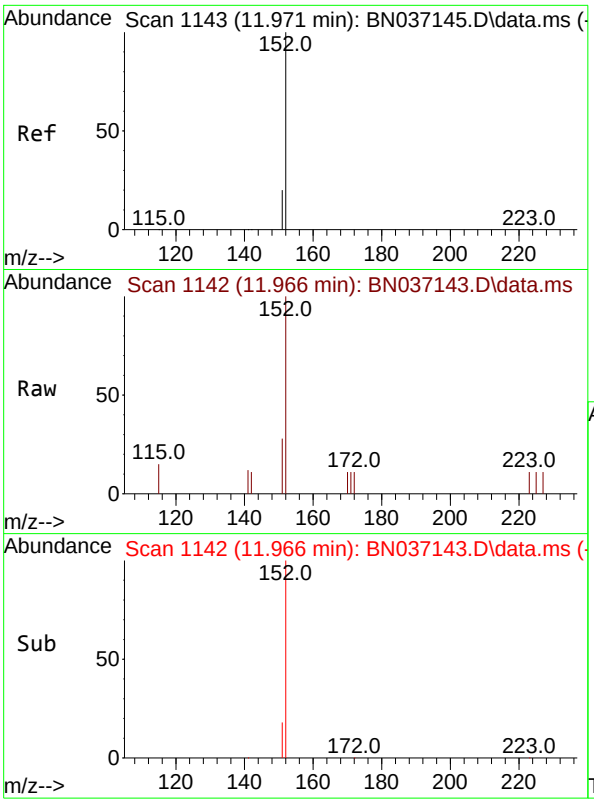


#10
Hexachlorobutadiene
Concen: 0.100 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.011 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:225 Resp: 312

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	50.3	75.5



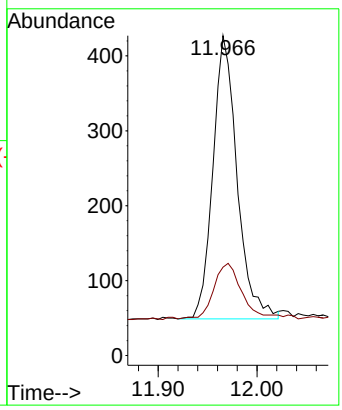


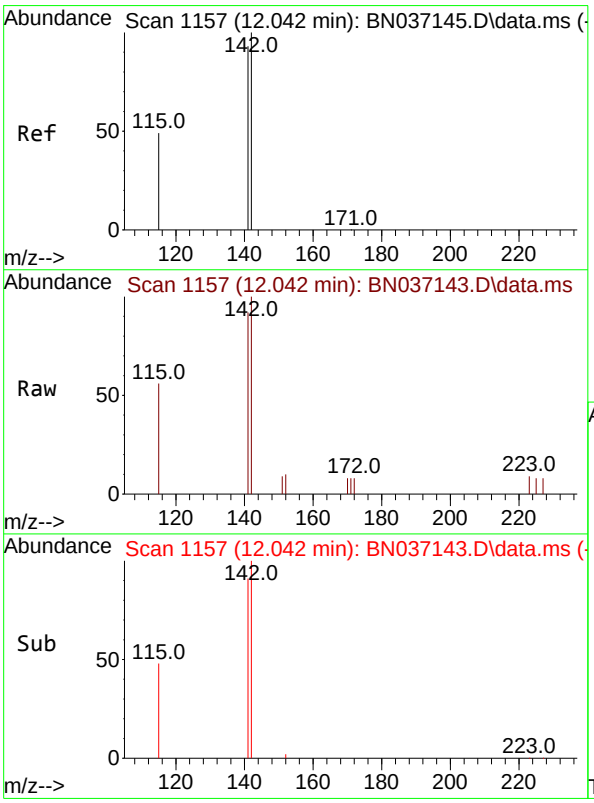
#11
2-Methylnaphthalene-d10
Concen: 0.093 ng
RT: 11.966 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 643

Ion	Ratio	Lower	Upper
152	100		
151	23.0	17.1	25.7

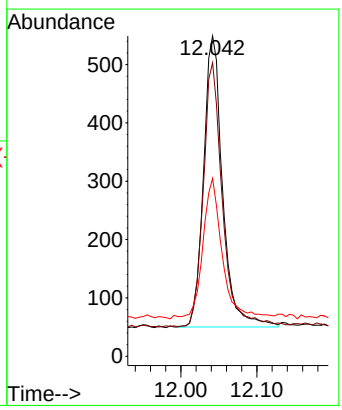


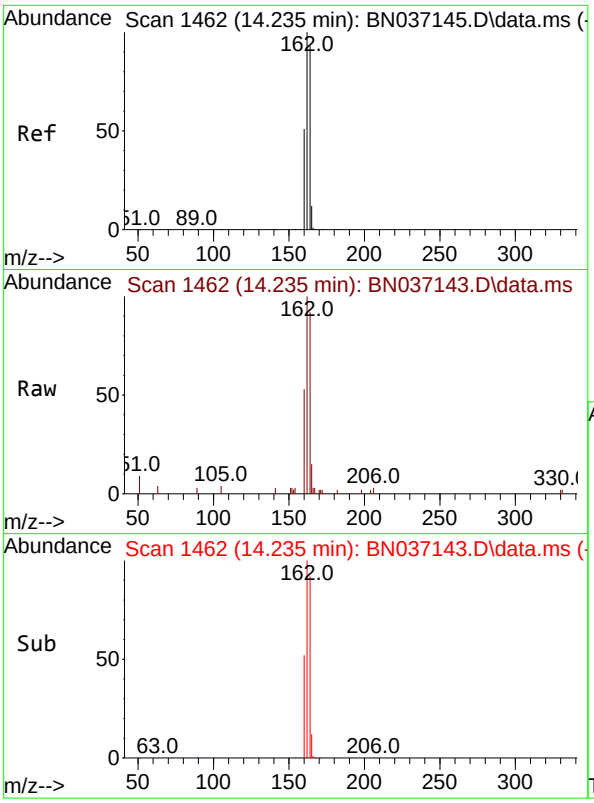


#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.042 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:142 Resp: 870

Ion	Ratio	Lower	Upper
142	100		
141	91.6	74.6	111.8
115	55.6	41.0	61.4



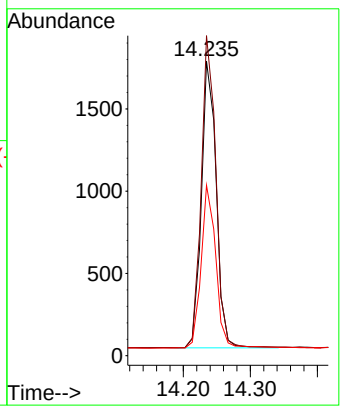


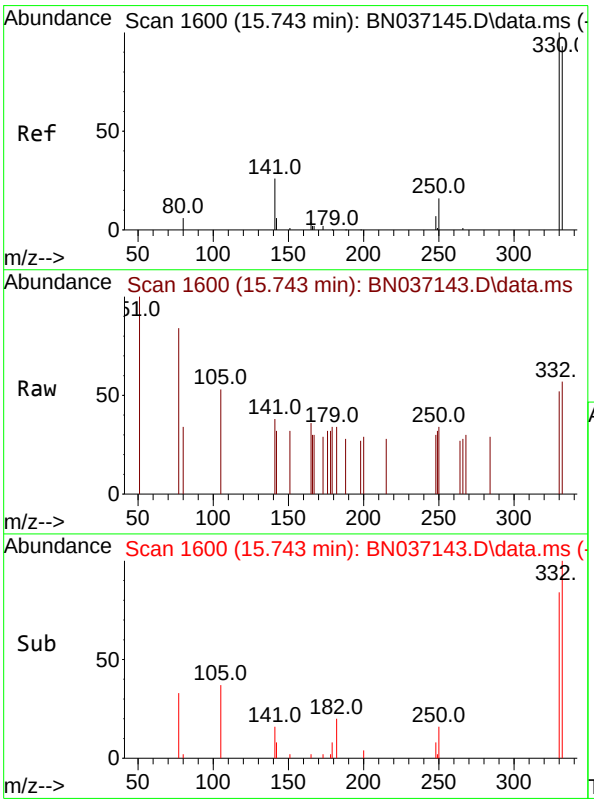
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 2688

Ion	Ratio	Lower	Upper
164	100		
162	108.7	85.5	128.3
160	57.9	44.6	67.0

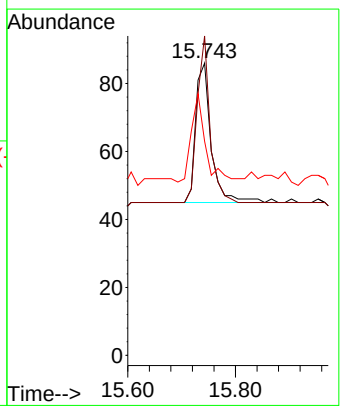


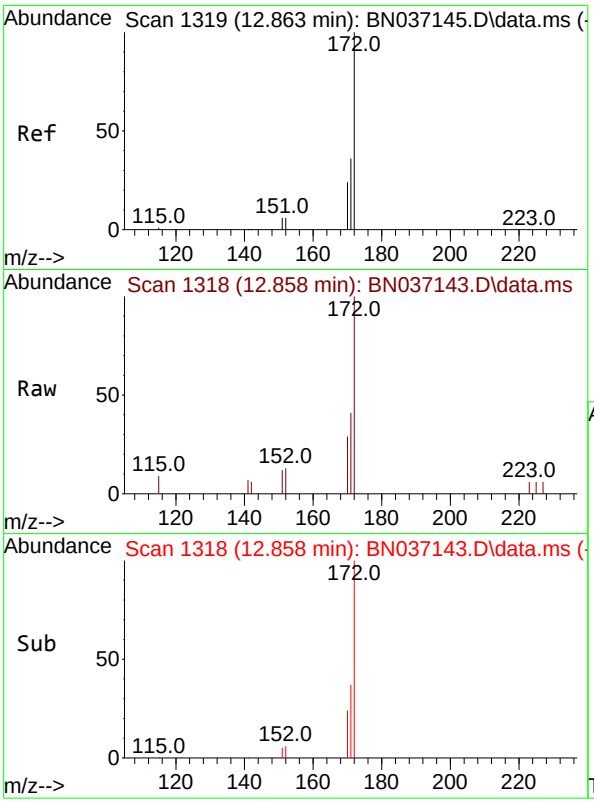


#14
2,4,6-Tribromophenol
Concen: 0.077 ng
RT: 15.743 min Scan# 1600
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:330 Resp: 83

Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.1	115.7
141	56.6	46.4	69.6



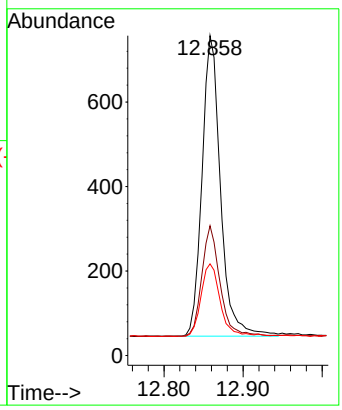


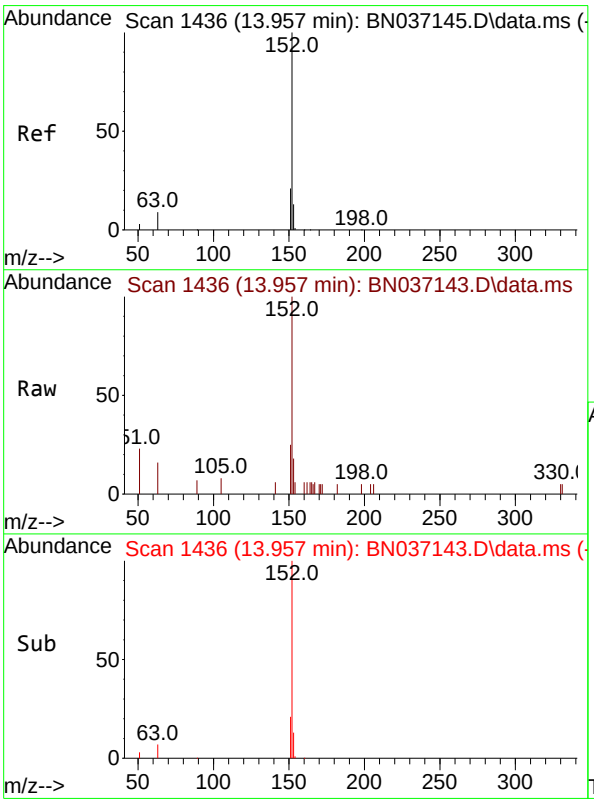
#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 12.858 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1157

Ion	Ratio	Lower	Upper
172	100		
171	40.6	29.6	44.4
170	28.7	20.3	30.5

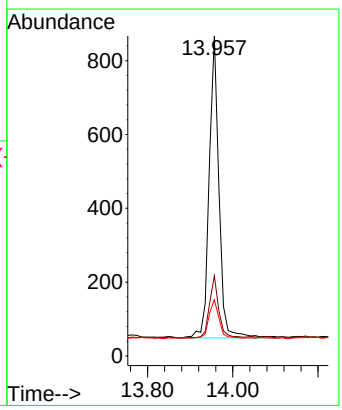


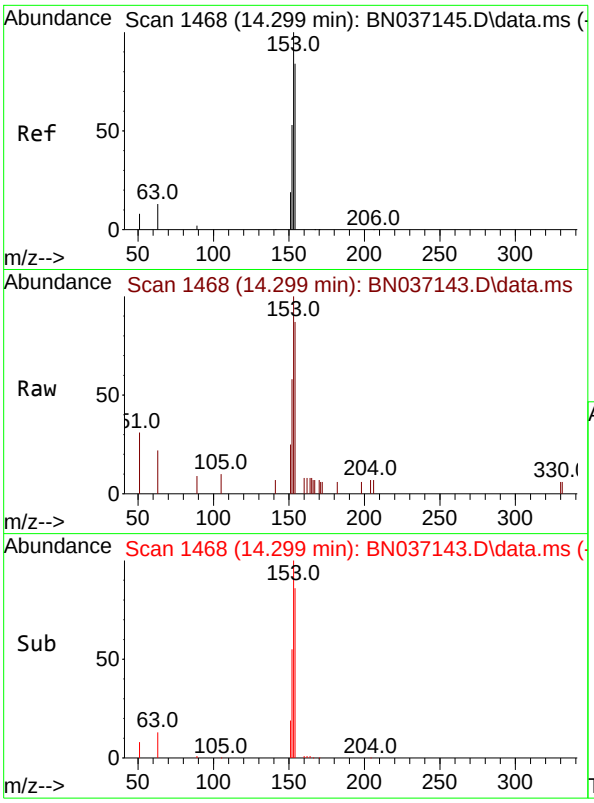


#16
Acenaphthylene
Concen: 0.099 ng
RT: 13.957 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:152 Resp: 1308

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	13.1	10.6	15.8



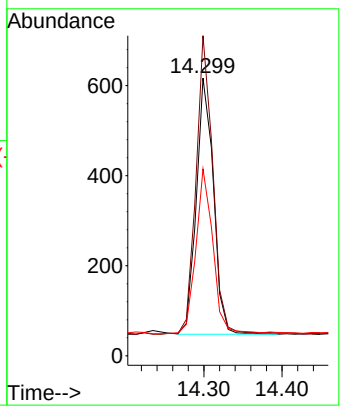


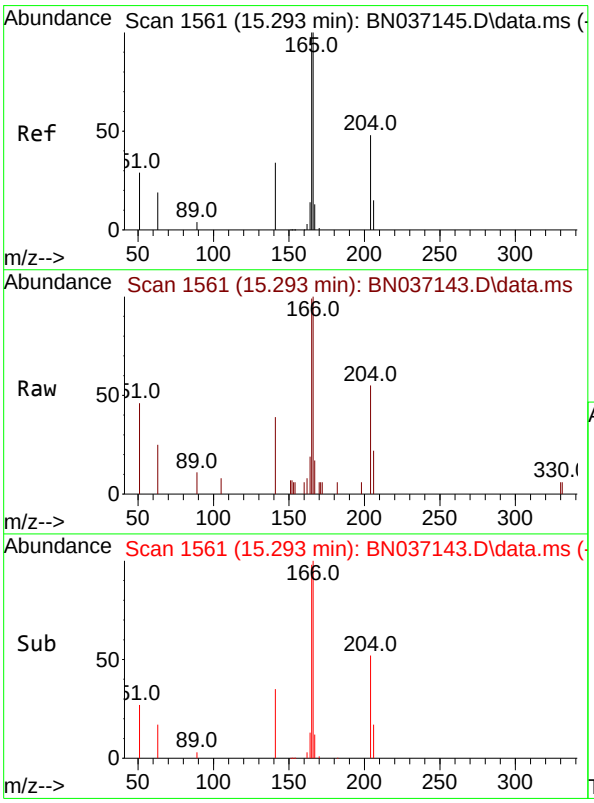
#17
Acenaphthene
Concen: 0.101 ng
RT: 14.299 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 867

Ion	Ratio	Lower	Upper
154	100		
153	115.6	93.8	140.8
152	64.1	50.5	75.7

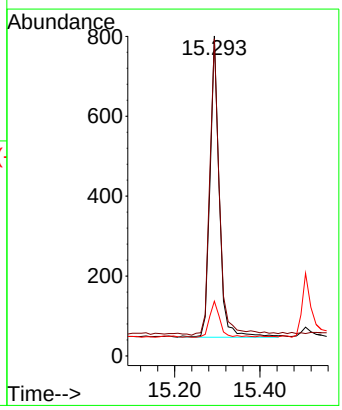


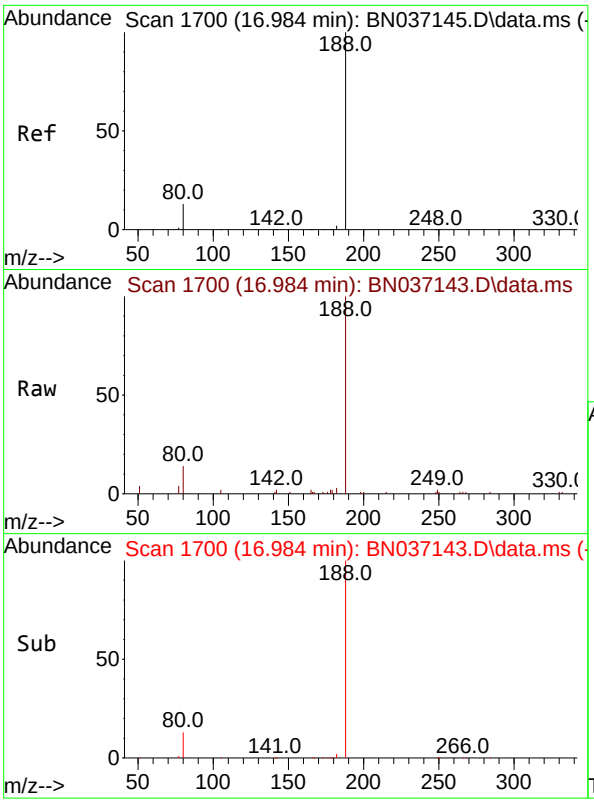


#18
Fluorene
Concen: 0.102 ng
RT: 15.293 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:166 Resp: 1143

Ion	Ratio	Lower	Upper
166	100		
165	102.8	81.1	121.7
167	13.3	10.8	16.2



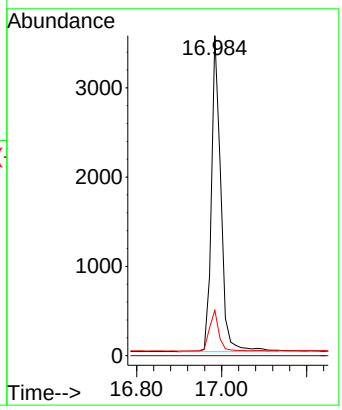


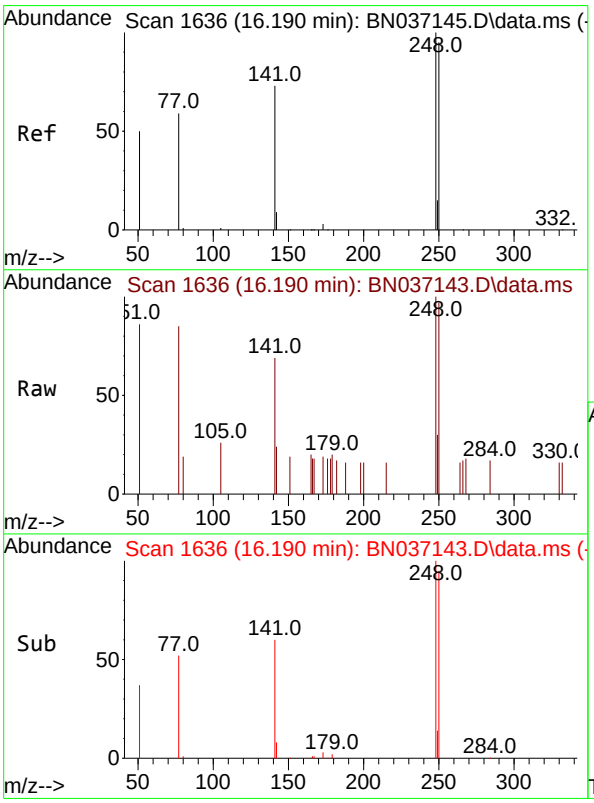
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 5431

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.2	11.3	16.9

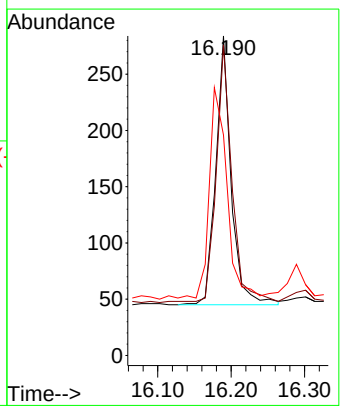


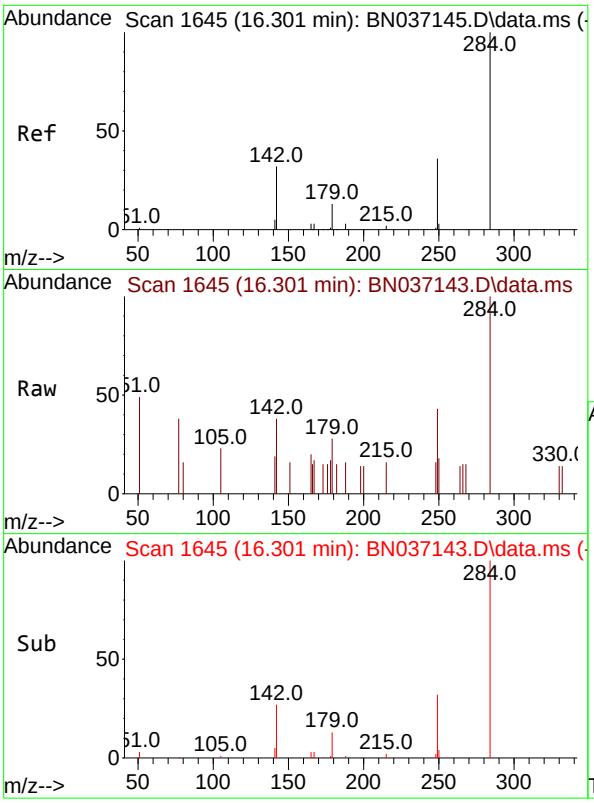


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.190 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:248 Resp: 347

Ion	Ratio	Lower	Upper
248	100		
250	97.2	76.1	114.1
141	69.0	60.1	90.1



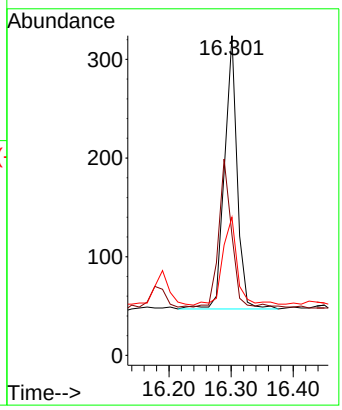


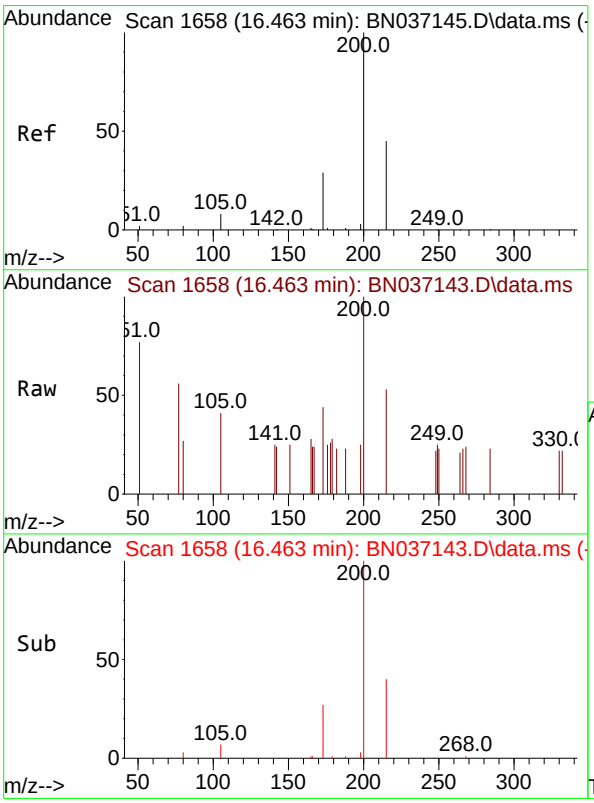
#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.301 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:284 Resp: 392

Ion	Ratio	Lower	Upper
284	100		
142	54.1	44.0	66.0
249	37.5	29.7	44.5

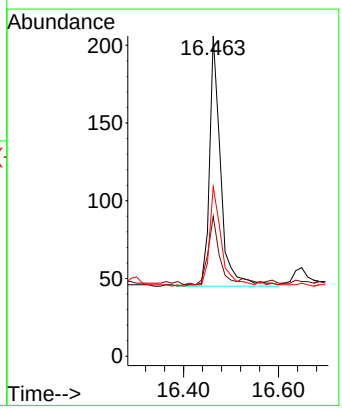


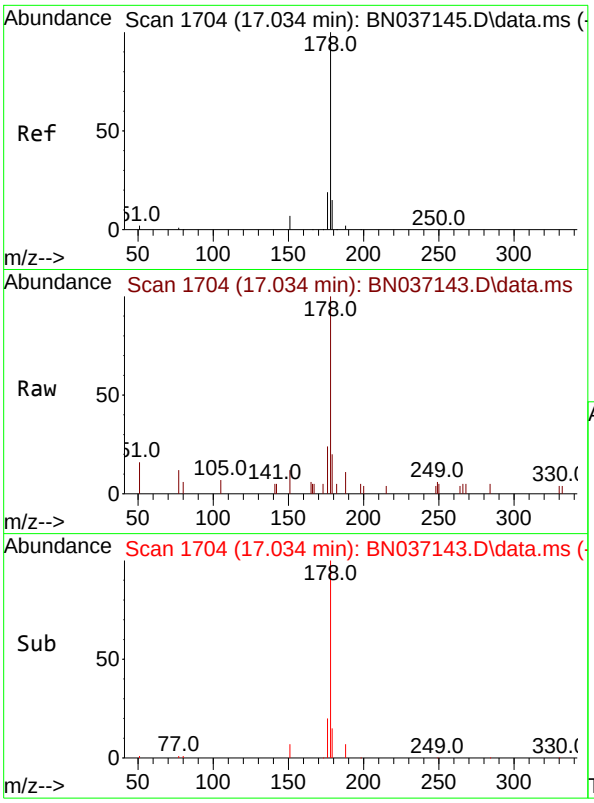


#23
Atrazine
Concen: 0.090 ng
RT: 16.463 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:200 Resp: 264

Ion	Ratio	Lower	Upper
200	100		
173	43.7	28.1	42.1#
215	52.9	39.3	58.9



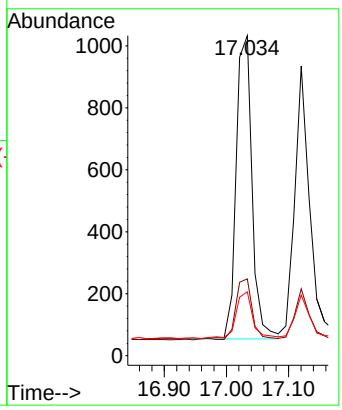


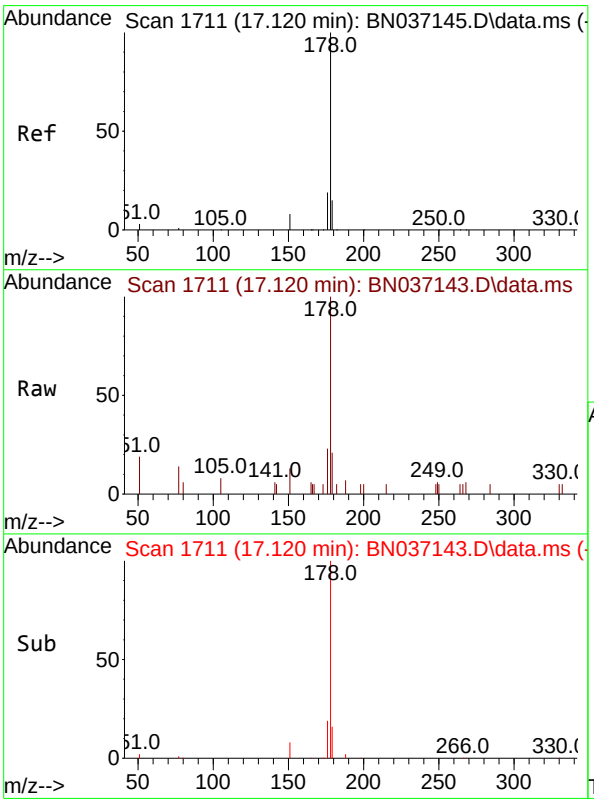
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.034 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 1745

Ion	Ratio	Lower	Upper
178	100		
176	21.3	15.7	23.5
179	15.6	12.3	18.5

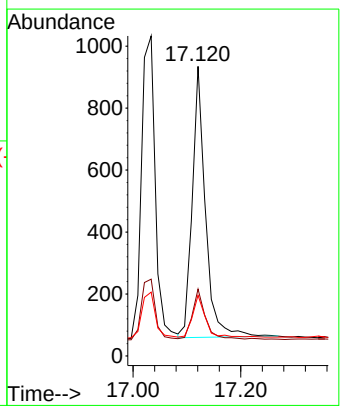


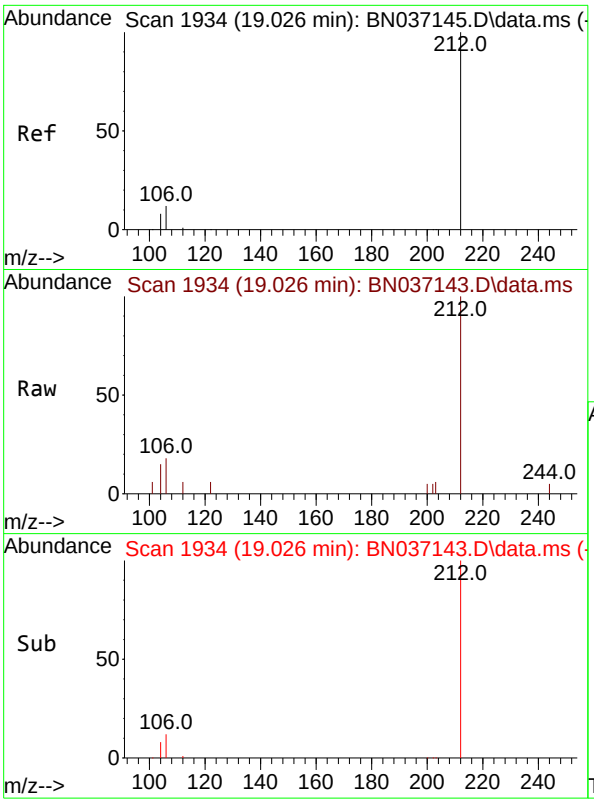


#26
Anthracene
Concen: 0.093 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:178 Resp: 1491

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.2	22.8
179	15.8	12.9	19.3



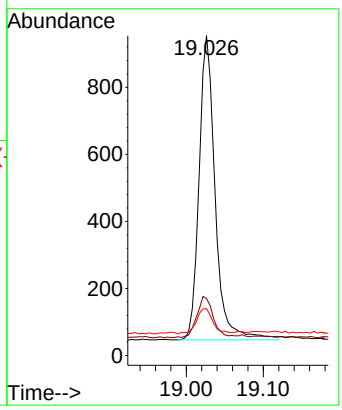


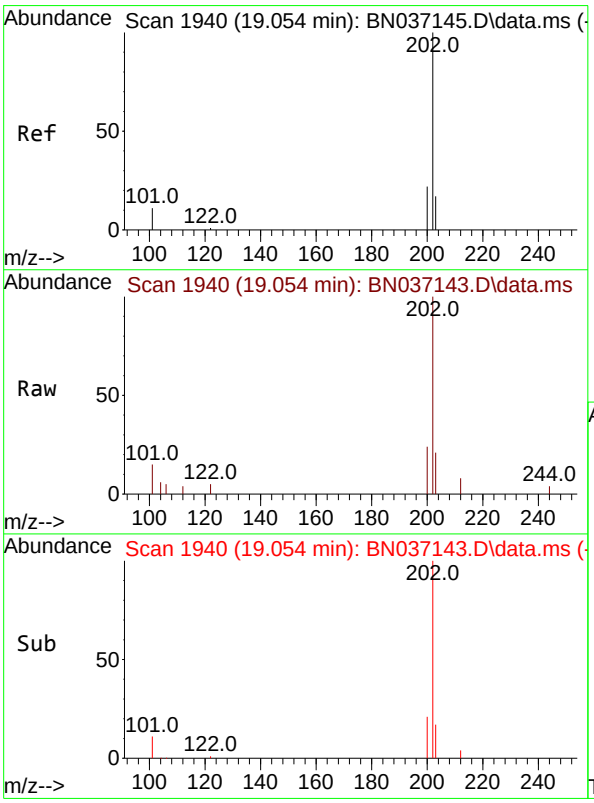
#27
Fluoranthene-d10
Concen: 0.095 ng
RT: 19.026 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 1316

Ion	Ratio	Lower	Upper
212	100		
106	13.6	10.6	15.8
104	8.4	6.6	9.8

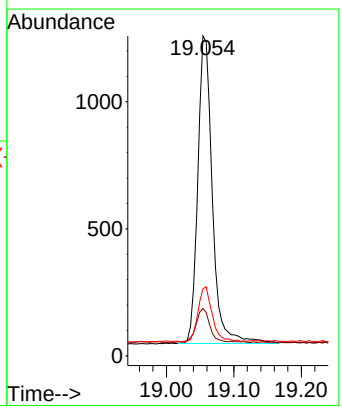


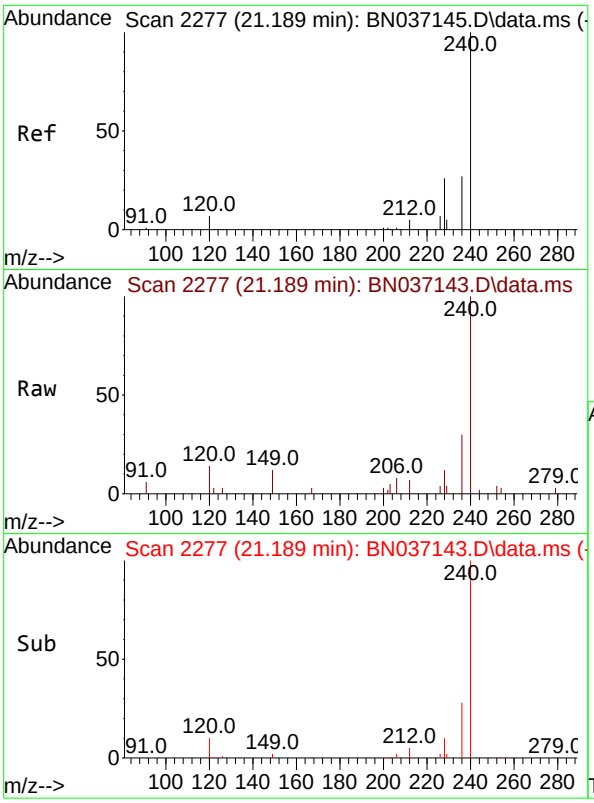


#28
Fluoranthene
Concen: 0.094 ng
RT: 19.054 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:202 Resp: 1818

Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.7	13.1
203	17.4	13.5	20.3



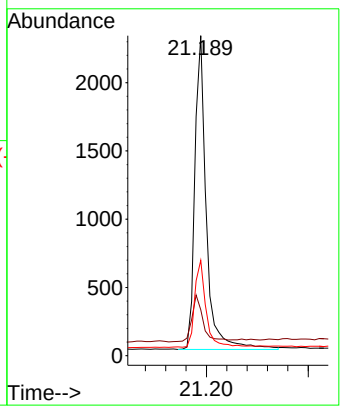


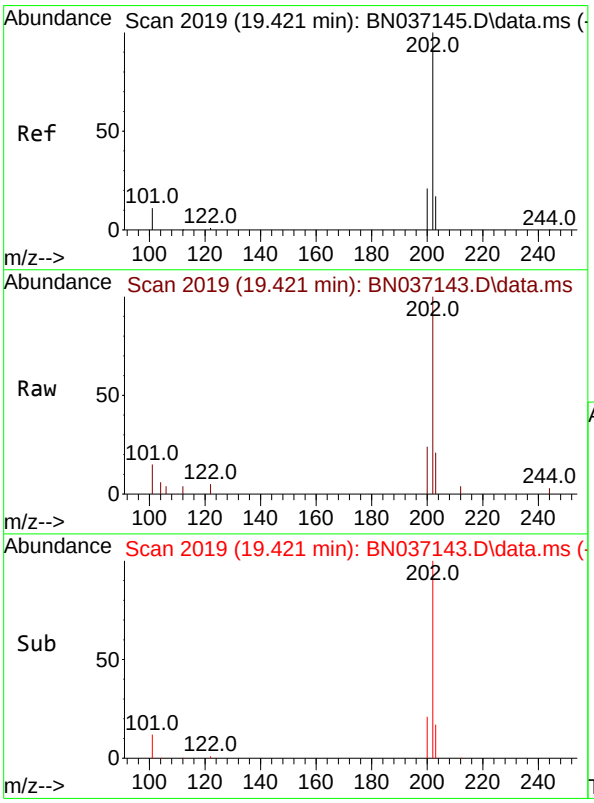
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 3598

Ion	Ratio	Lower	Upper
240	100		
120	14.4	9.0	13.4#
236	29.8	23.0	34.4

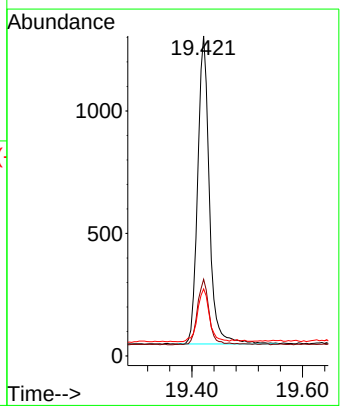


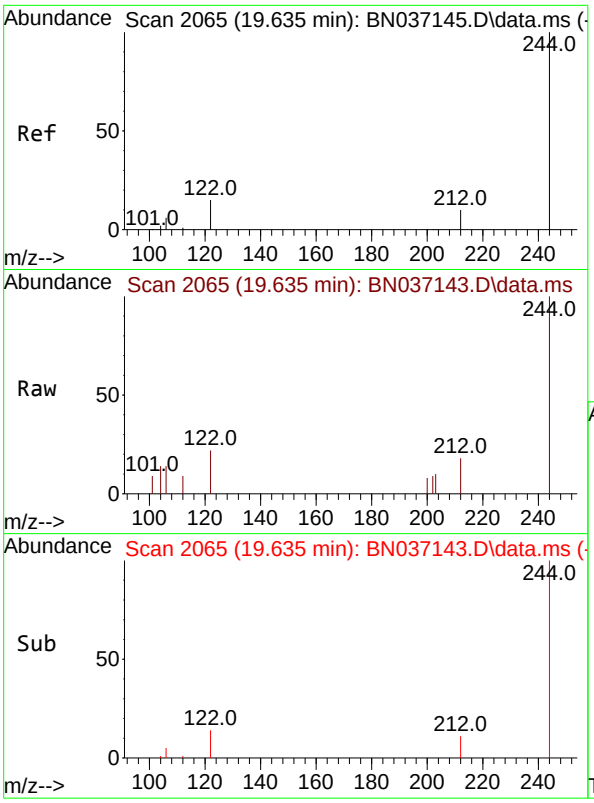


#30
Pyrene
Concen: 0.105 ng
RT: 19.421 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:202 Resp: 1845

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.0	25.6
203	17.5	14.2	21.4



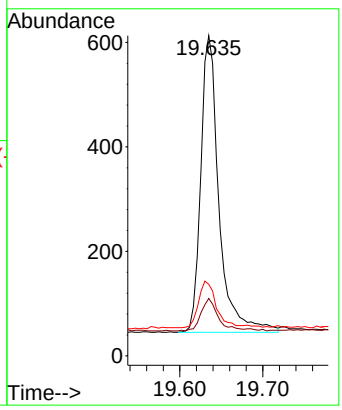


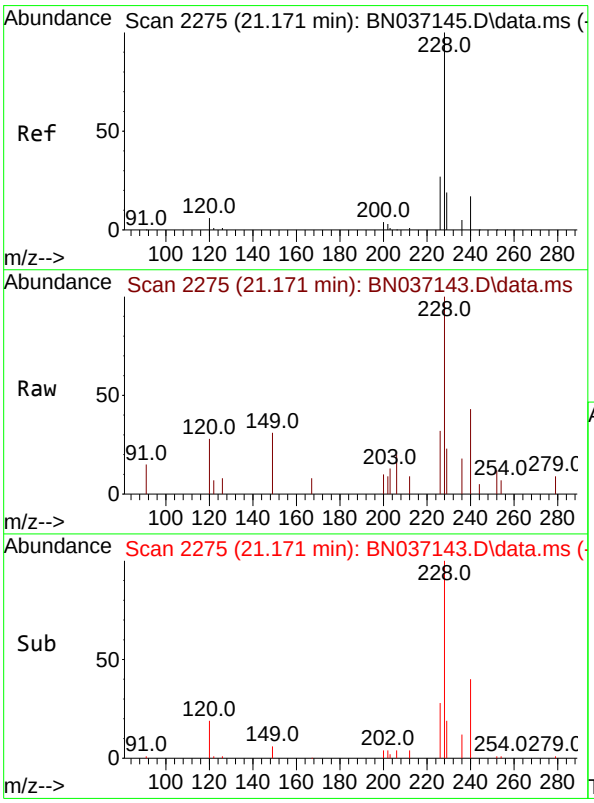
#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.635 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 867

Ion	Ratio	Lower	Upper
244	100		
212	17.9	10.0	15.0#
122	22.3	13.2	19.8#

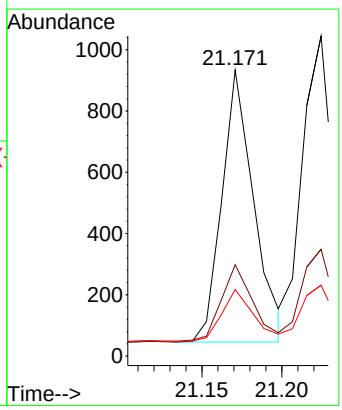


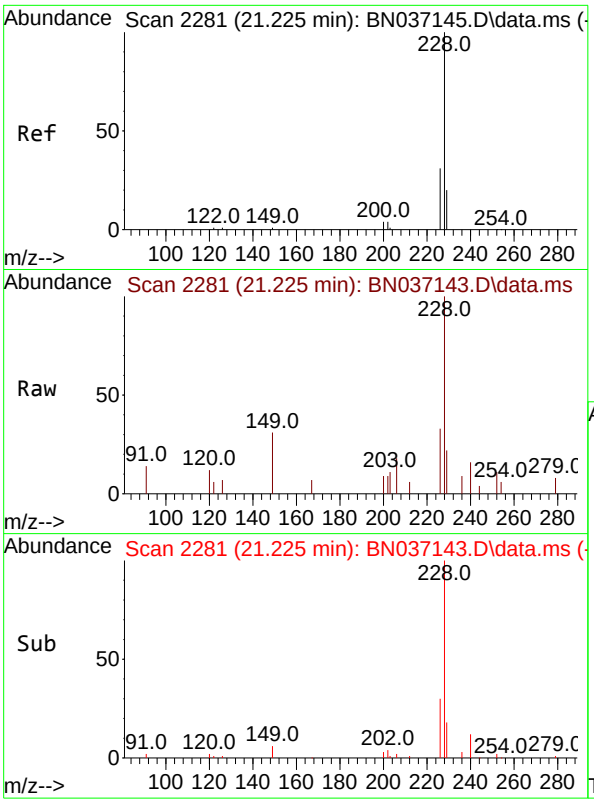


#32
Benzo(a)anthracene
Concen: 0.095 ng
RT: 21.171 min Scan# 2275
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:228 Resp: 1231

Ion	Ratio	Lower	Upper
228	100		
226	31.9	22.6	33.8
229	23.2	16.2	24.2



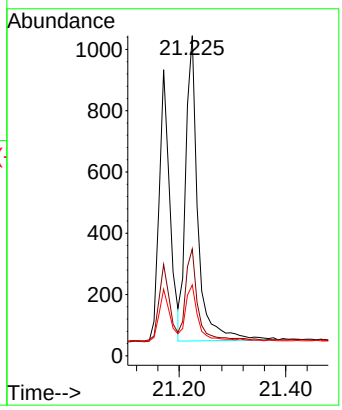


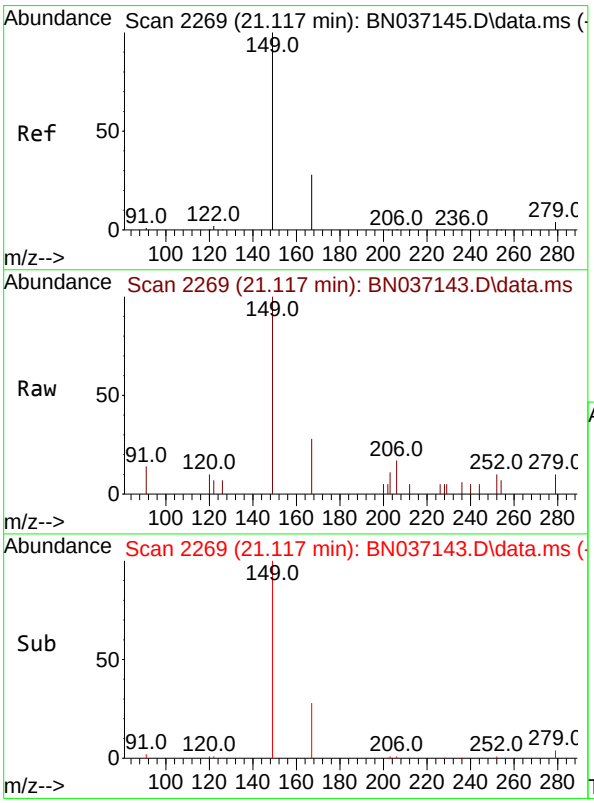
#33
Chrysene
Concen: 0.109 ng
RT: 21.225 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 1579

Ion	Ratio	Lower	Upper
228	100		
226	33.4	25.2	37.8
229	22.1	16.8	25.2

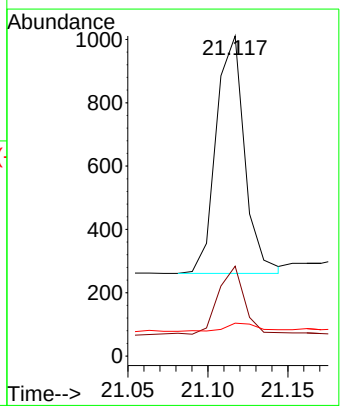


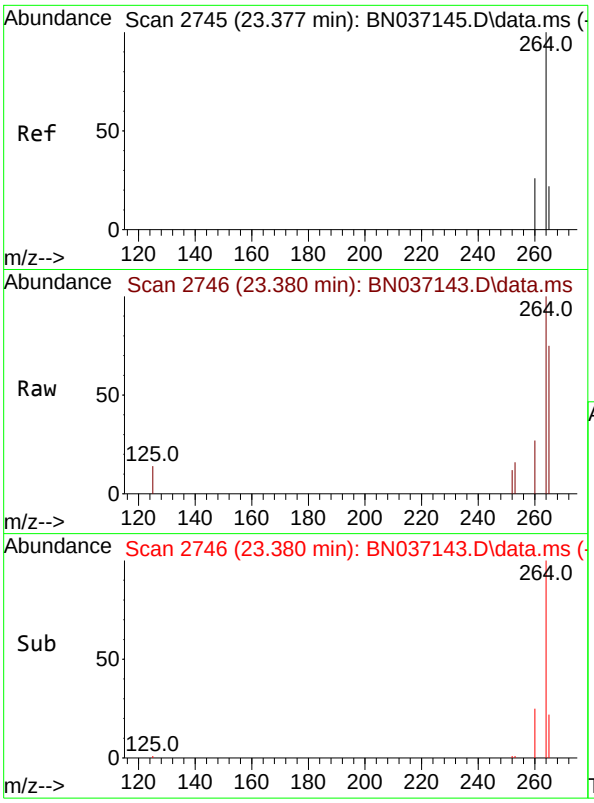


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 21.117 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:149 Resp: 928

Ion	Ratio	Lower	Upper
149	100		
167	27.6	21.0	31.4
279	4.0	2.9	4.3



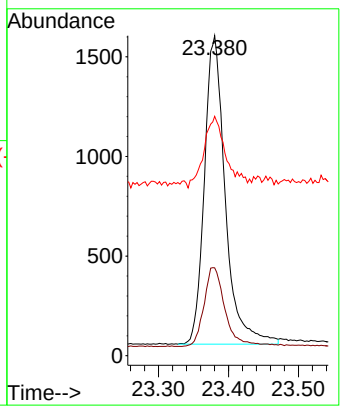


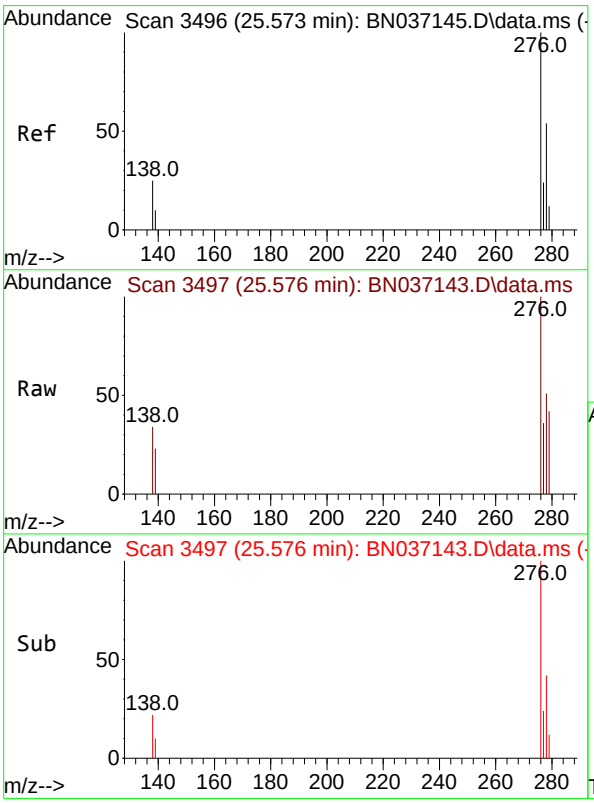
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.380 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 3208

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.1	33.1
265	74.8	55.8	83.8

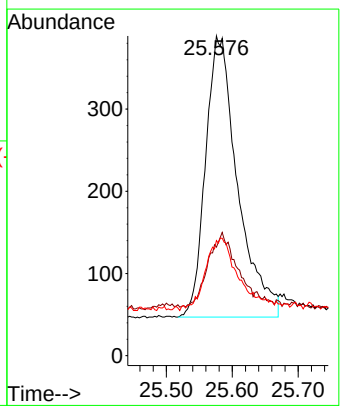


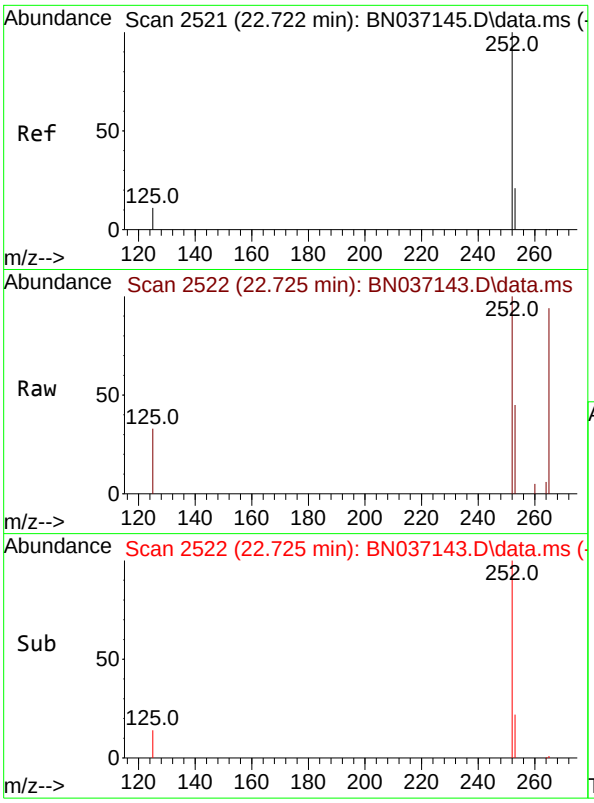


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.091 ng
RT: 25.576 min Scan# 3497
Delta R.T. 0.003 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:276 Resp: 1157

Ion	Ratio	Lower	Upper
276	100		
138	23.5	21.0	31.6
277	24.3	19.4	29.2



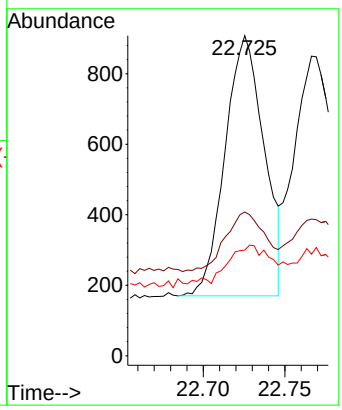


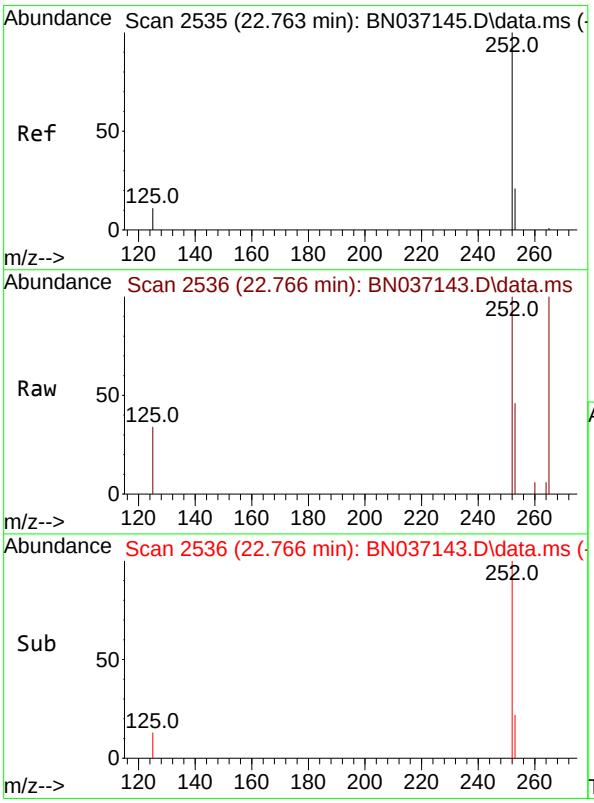
#37
Benzo(b)fluoranthene
Concen: 0.095 ng
RT: 22.725 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 1226

Ion	Ratio	Lower	Upper
252	100		
253	44.9	22.3	33.5#
125	33.0	13.2	19.8#

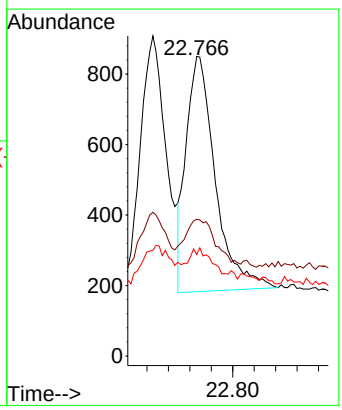


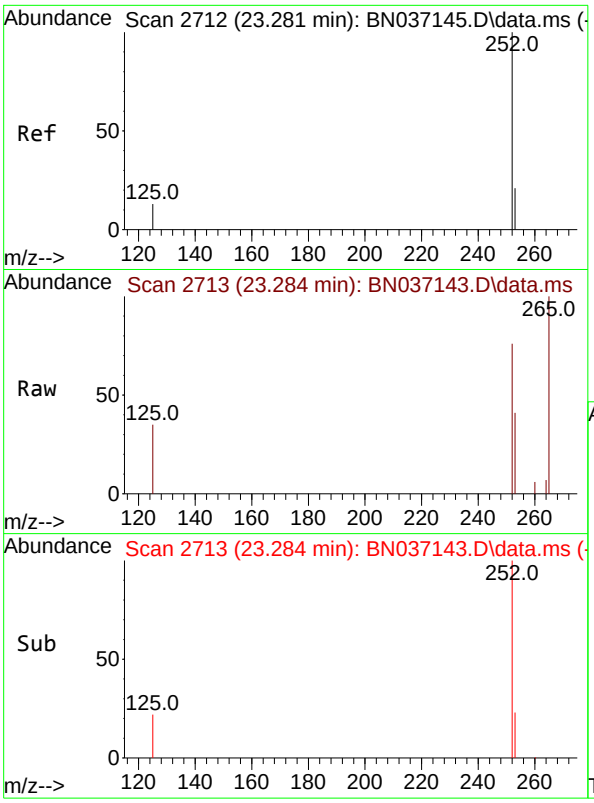


#38
Benzo(k)fluoranthene
Concen: 0.096 ng
RT: 22.766 min Scan# 2536
Delta R.T. 0.003 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:252 Resp: 1264

Ion	Ratio	Lower	Upper
252	100		
253	45.6	22.2	33.4#
125	33.9	13.2	19.8#



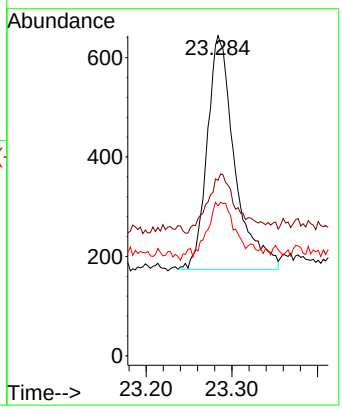


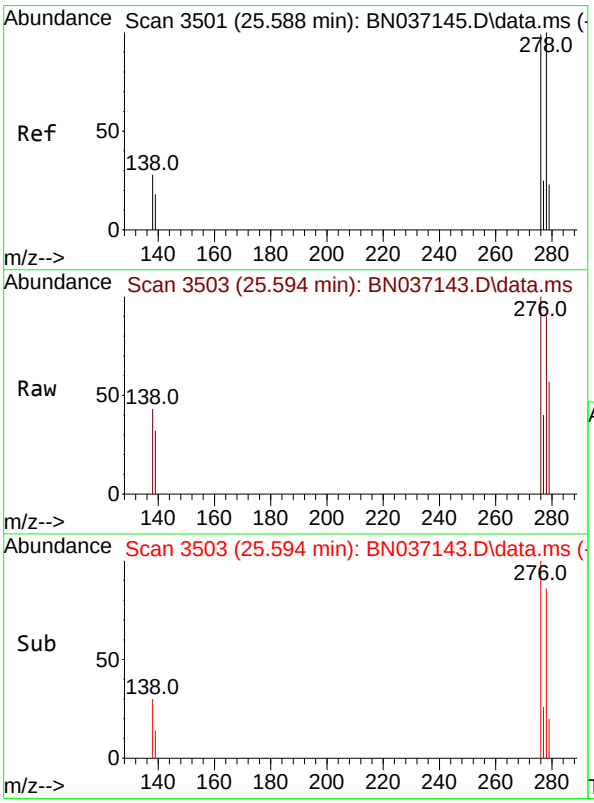
#39
Benzo(a)pyrene
Concen: 0.097 ng
RT: 23.284 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 1051

Ion	Ratio	Lower	Upper
252	100		
253	54.8	25.0	37.4#
125	46.9	17.0	25.6#

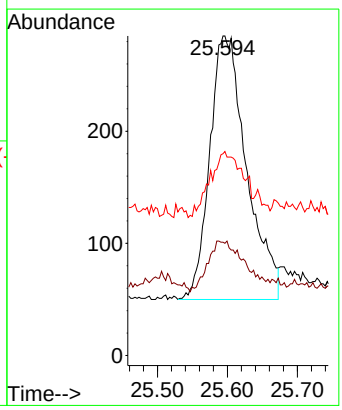


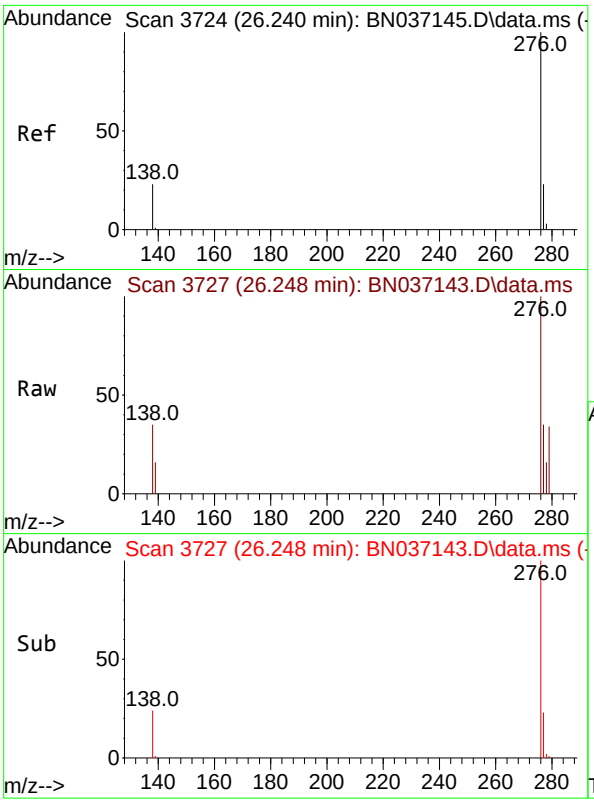


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.594 min Scan# 3503
Delta R.T. 0.006 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Tgt Ion:278 Resp: 861

Ion	Ratio	Lower	Upper
278	100		
139	35.4	17.6	26.4#
279	63.2	26.0	39.0#



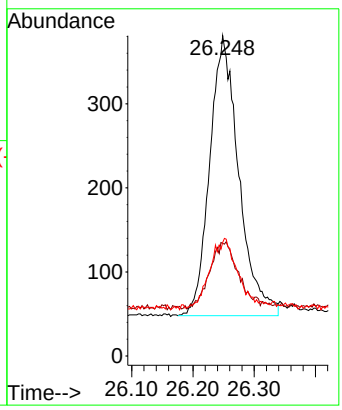


#41
Benzo(g,h,i)perylene
Concen: 0.097 ng
RT: 26.248 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN037143.D
Acq: 03 Jun 2025 11:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 1097

Ion	Ratio	Lower	Upper
276	100		
277	35.2	20.9	31.3#
138	35.4	20.8	31.2#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037144.D
Acq On : 03 Jun 2025 12:15
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 04 01:41:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.589	152	2031	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	5053	0.400	ng		0.00
13) Acenaphthene-d10	14.234	164	2624	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	4950	0.400	ng		0.00
29) Chrysene-d12	21.188	240	3306	0.400	ng		0.00
35) Perylene-d12	23.374	264	3099	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	1033	0.206	ng		0.00
5) Phenol-d6	6.773	99	1162	0.191	ng		0.00
8) Nitrobenzene-d5	8.739	82	967	0.181	ng		0.00
11) 2-Methylnaphthalene-d10	11.970	152	1302	0.185	ng		0.00
14) 2,4,6-Tribromophenol	15.742	330	193	0.183	ng		0.00
15) 2-Fluorobiphenyl	12.863	172	2219	0.198	ng		0.00
27) Fluoranthene-d10	19.026	212	2318	0.184	ng		0.00
31) Terphenyl-d14	19.635	244	1502	0.193	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.126	88	667	0.246	ng		86
3) n-Nitrosodimethylamine	3.444	42	1047	0.193	ng		95
6) bis(2-Chloroethyl)ether	7.026	93	1157	0.199	ng		97
9) Naphthalene	10.415	128	2843	0.195	ng		97
10) Hexachlorobutadiene	10.714	225	630	0.198	ng	#	95
12) 2-Methylnaphthalene	12.046	142	1717	0.184	ng		98
16) Acenaphthylene	13.956	152	2500	0.194	ng		99
17) Acenaphthene	14.299	154	1644	0.197	ng		99
18) Fluorene	15.293	166	2069	0.188	ng		99
20) 4,6-Dinitro-2-methylph...	15.400	198	97	0.341	ng	#	54
21) 4-Bromophenyl-phenylether	16.189	248	626	0.193	ng		97
22) Hexachlorobenzene	16.301	284	703	0.201	ng		98
23) Atrazine	16.462	200	494	0.184	ng		94
24) Pentachlorophenol	16.673	266	214	0.317	ng		97
25) Phenanthrene	17.033	178	3073	0.192	ng		99
26) Anthracene	17.120	178	2721	0.186	ng		98
28) Fluoranthene	19.054	202	3203	0.181	ng		99
30) Pyrene	19.421	202	3263	0.202	ng		100
32) Benzo(a)anthracene	21.171	228	2259	0.189	ng		95
33) Chrysene	21.215	228	2704	0.203	ng		97
34) Bis(2-ethylhexyl)phtha...	21.108	149	1420	0.188	ng		98
36) Indeno(1,2,3-cd)pyrene	25.570	276	2487	0.202	ng		100
37) Benzo(b)fluoranthene	22.719	252	2355	0.188	ng	#	87
38) Benzo(k)fluoranthene	22.763	252	2425	0.190	ng	#	86
39) Benzo(a)pyrene	23.281	252	1994	0.190	ng	#	81
40) Dibenzo(a,h)anthracene	25.587	278	1809	0.190	ng	#	85
41) Benzo(g,h,i)perylene	26.239	276	2247	0.206	ng	#	91

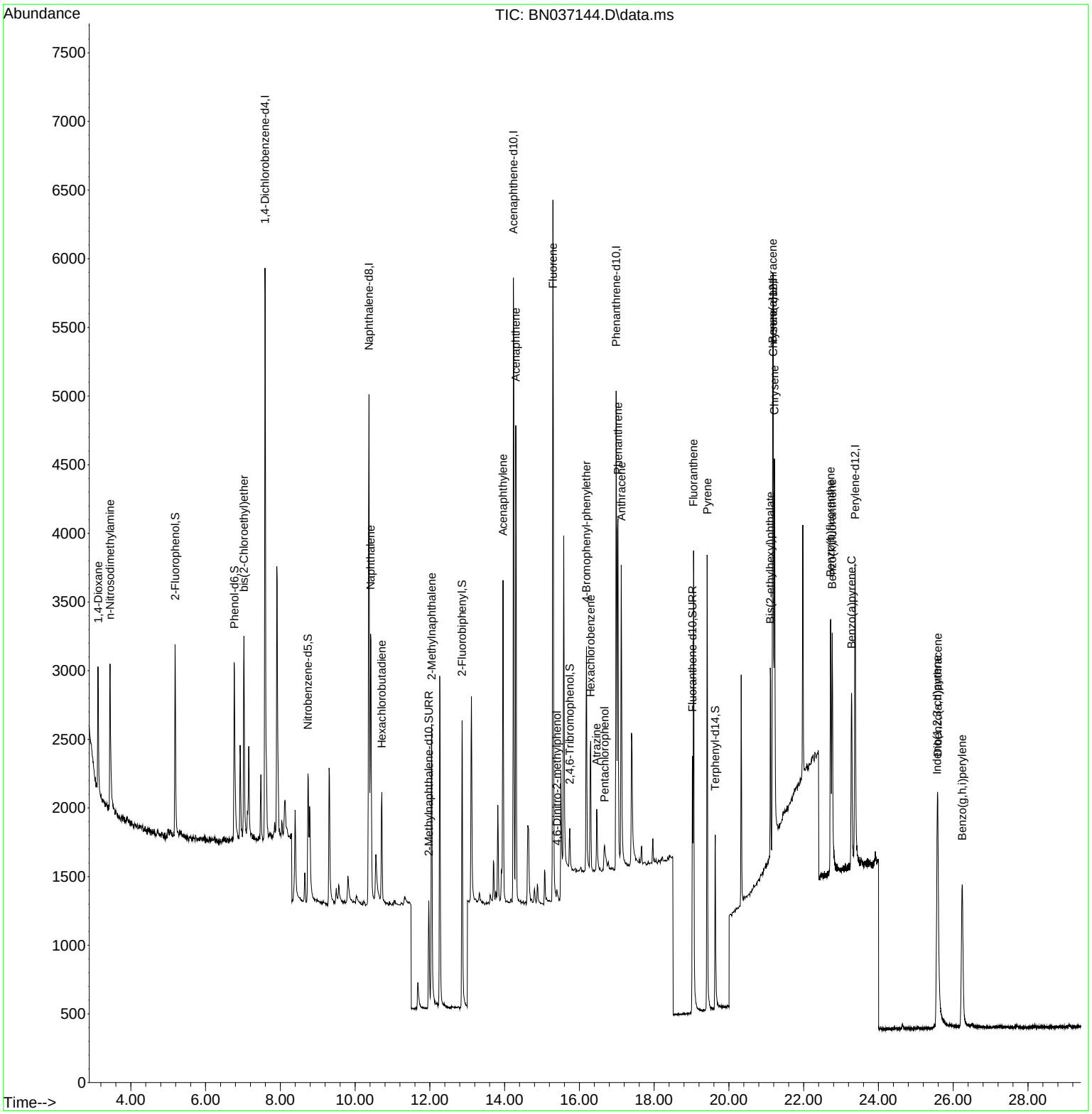
(#) = qualifier out of range (m) = manual integration (+) = signals summed

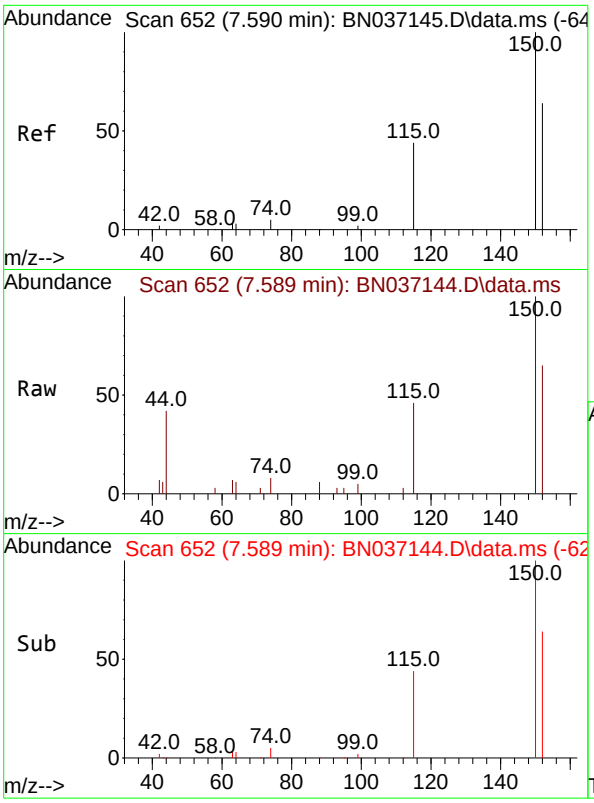
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037144.D
Acq On : 03 Jun 2025 12:15
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 04 01:41:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration



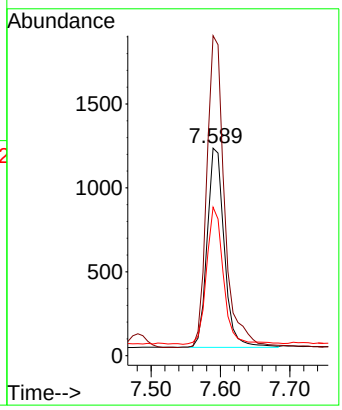


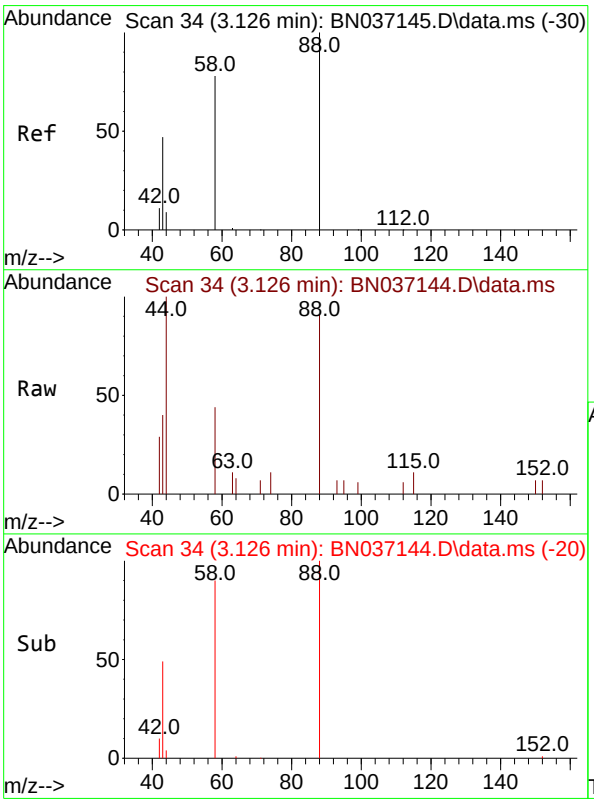
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2031

Ion	Ratio	Lower	Upper
152	100		
150	154.2	123.2	184.8
115	71.5	56.6	85.0

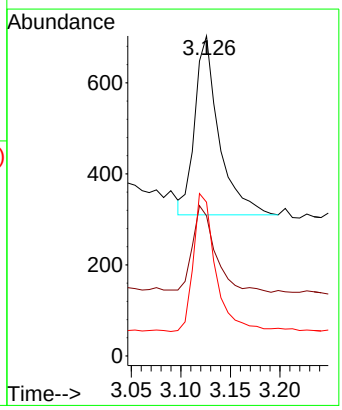


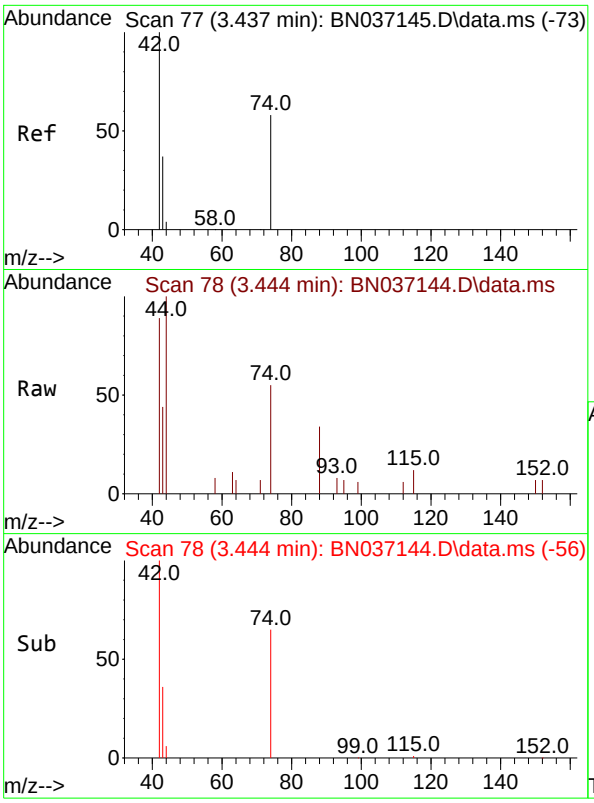


#2
1,4-Dioxane
Concen: 0.246 ng
RT: 3.126 min Scan# 34
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion: 88 Resp: 667

Ion	Ratio	Lower	Upper
88	100		
43	46.2	43.5	65.3
58	70.9	67.7	101.5



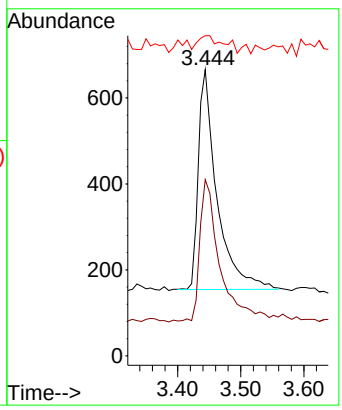


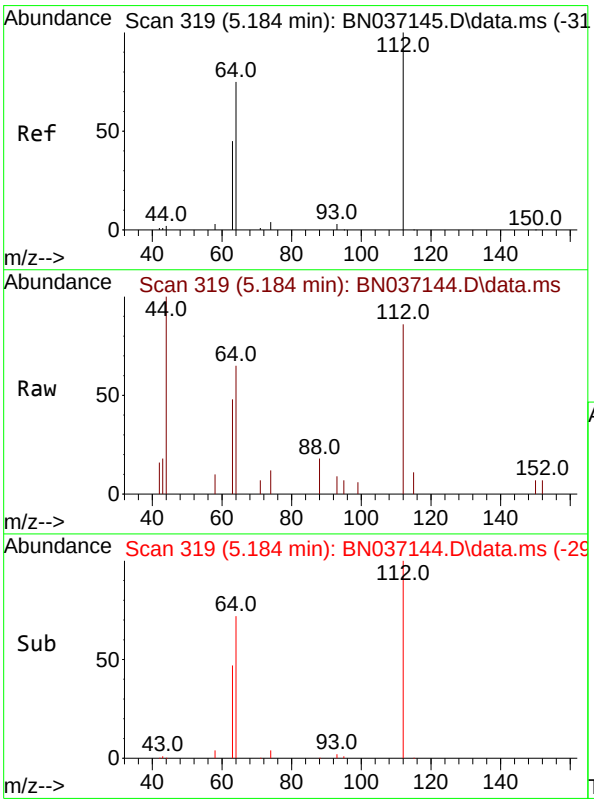
#3
n-Nitrosodimethylamine
Concen: 0.193 ng
RT: 3.444 min Scan# 7
Delta R.T. 0.007 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1047

Ion	Ratio	Lower	Upper
42	100		
74	70.1	53.0	79.4
44	7.7	5.9	8.9

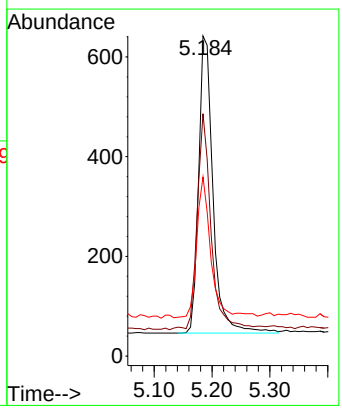


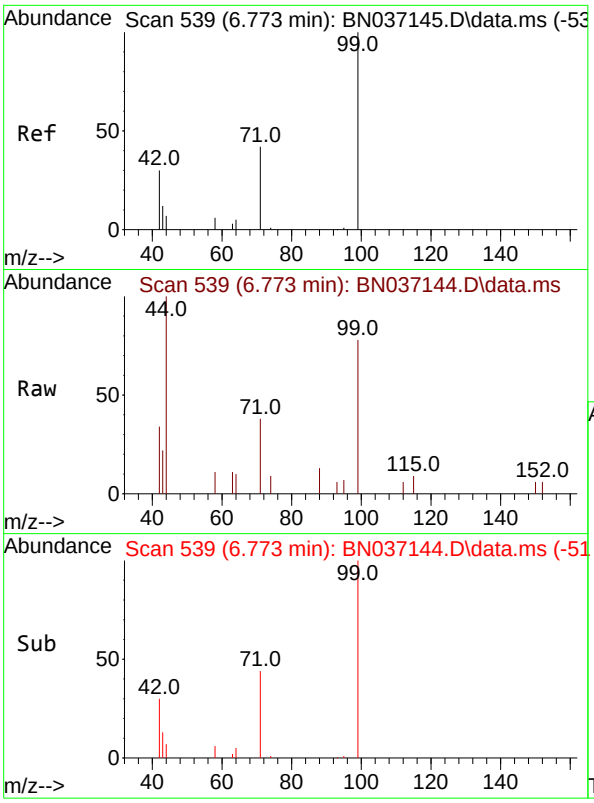


#4
2-Fluorophenol
Concen: 0.206 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:112 Resp: 1033

Ion	Ratio	Lower	Upper
112	100		
64	69.4	56.3	84.5
63	44.3	36.2	54.4



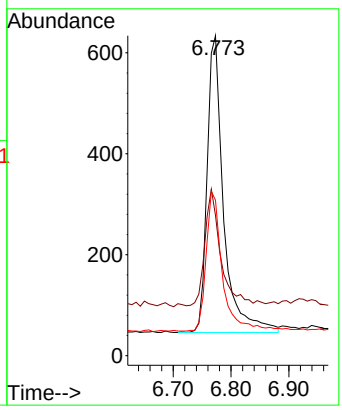


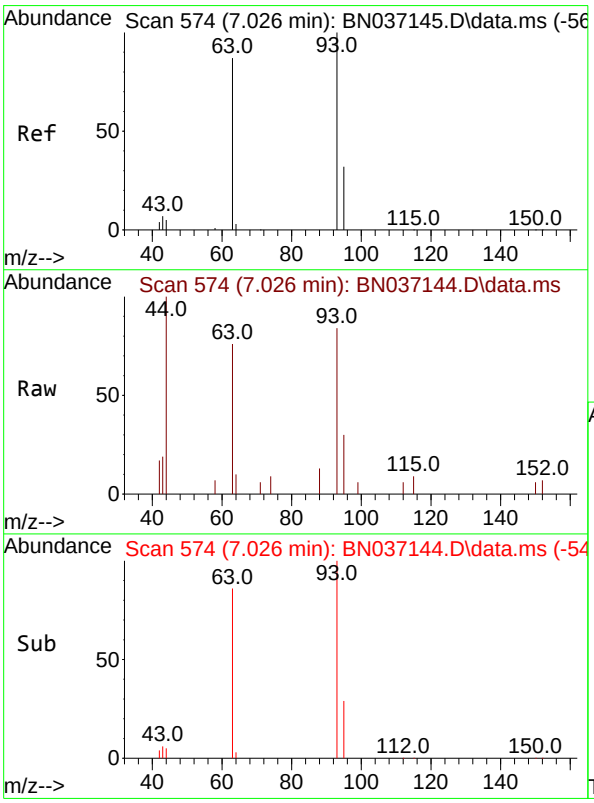
#5
Phenol-d6
Concen: 0.191 ng
RT: 6.773 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1162

Ion	Ratio	Lower	Upper
99	100		
42	38.3	31.3	46.9
71	47.2	38.2	57.2

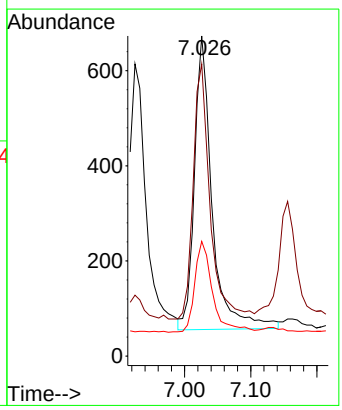


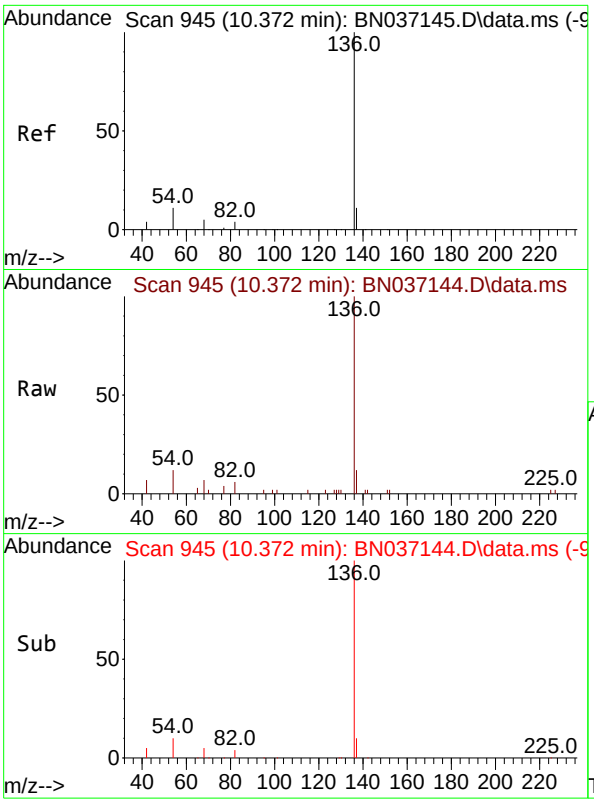


#6
bis(2-Chloroethyl)ether
Concen: 0.199 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion: 93 Resp: 1157

Ion	Ratio	Lower	Upper
93	100		
63	82.2	68.6	103.0
95	30.9	24.3	36.5



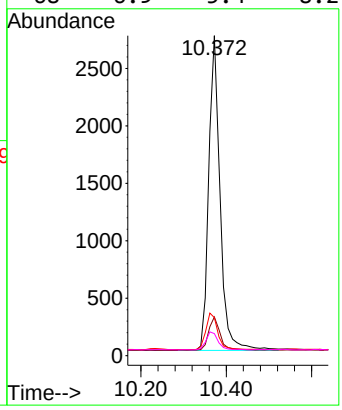


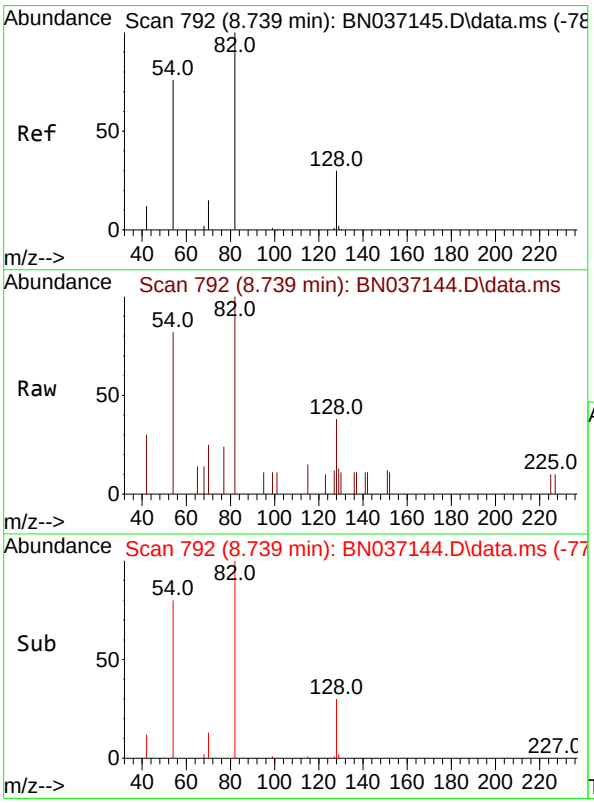
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5053

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	11.9	9.7	14.5
68	6.9	5.4	8.2

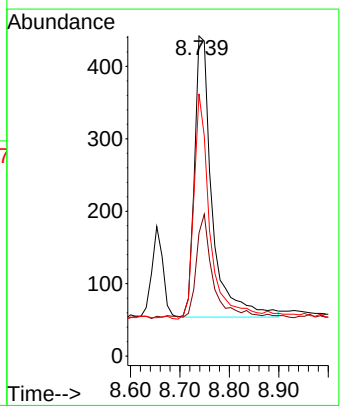


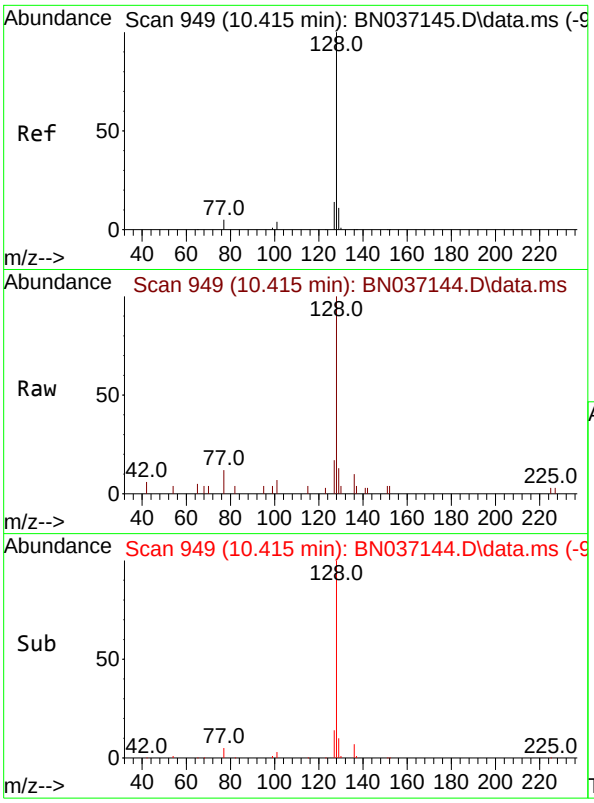


#8
Nitrobenzene-d5
Concen: 0.181 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion: 82 Resp: 967

Ion	Ratio	Lower	Upper
82	100		
128	38.5	26.9	40.3
54	81.9	61.4	92.2



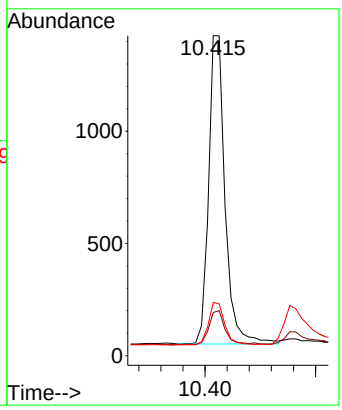


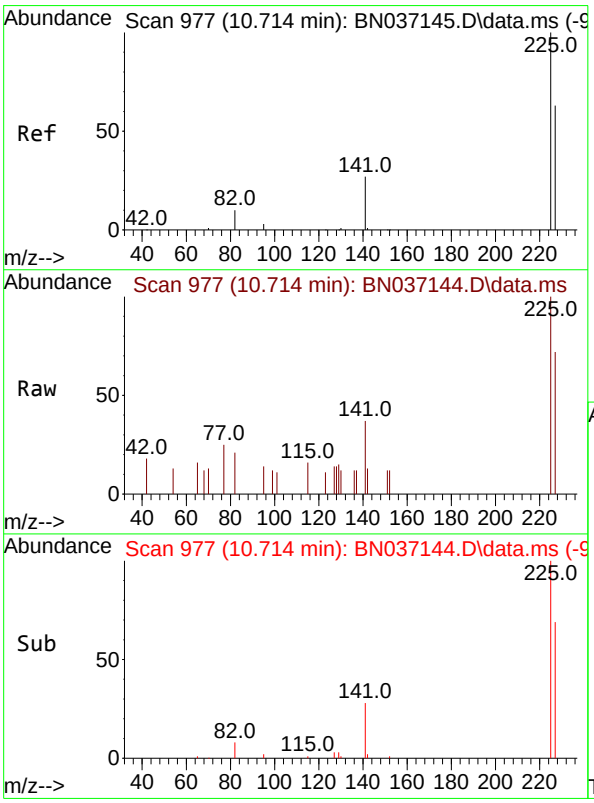
#9
Naphthalene
Concen: 0.195 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2843

Ion	Ratio	Lower	Upper
128	100		
129	13.5	9.8	14.8
127	16.6	12.3	18.5

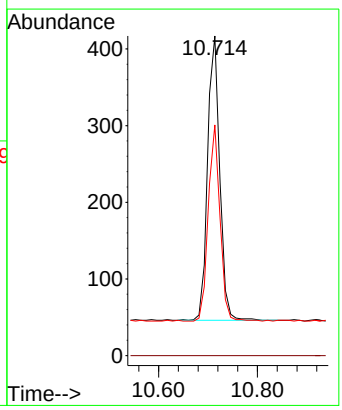


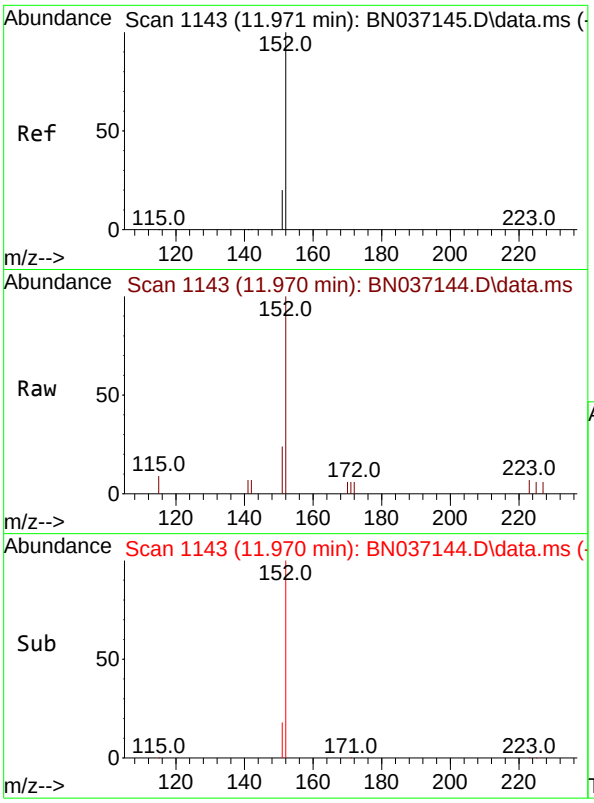


#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:225 Resp: 630

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	67.0	50.3	75.5



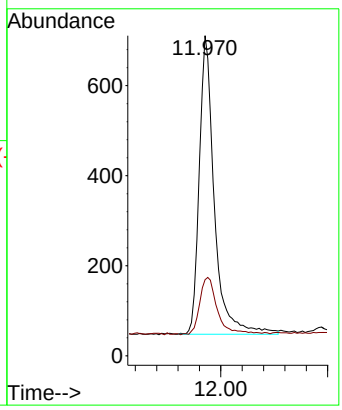


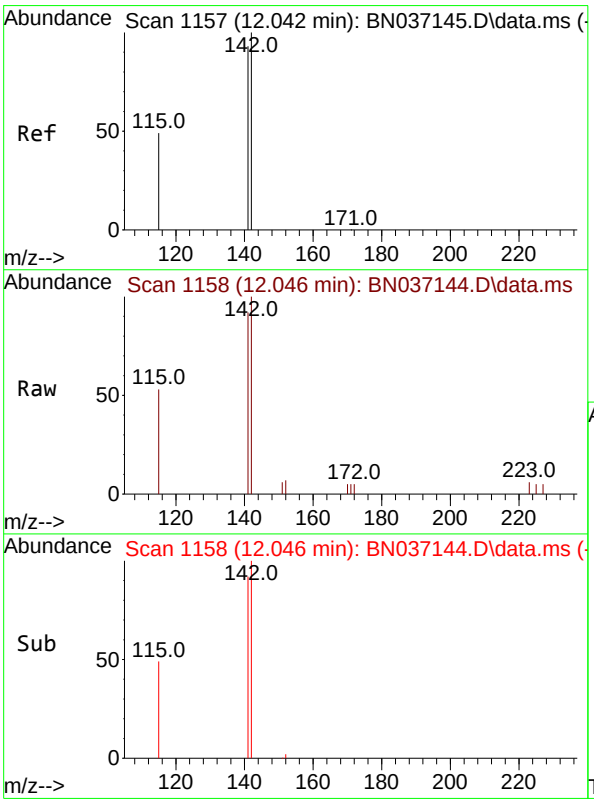
#11
2-Methylnaphthalene-d10
Concen: 0.185 ng
RT: 11.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1302

Ion	Ratio	Lower	Upper
152	100		
151	22.8	17.1	25.7

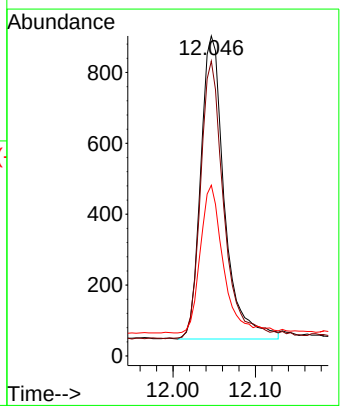


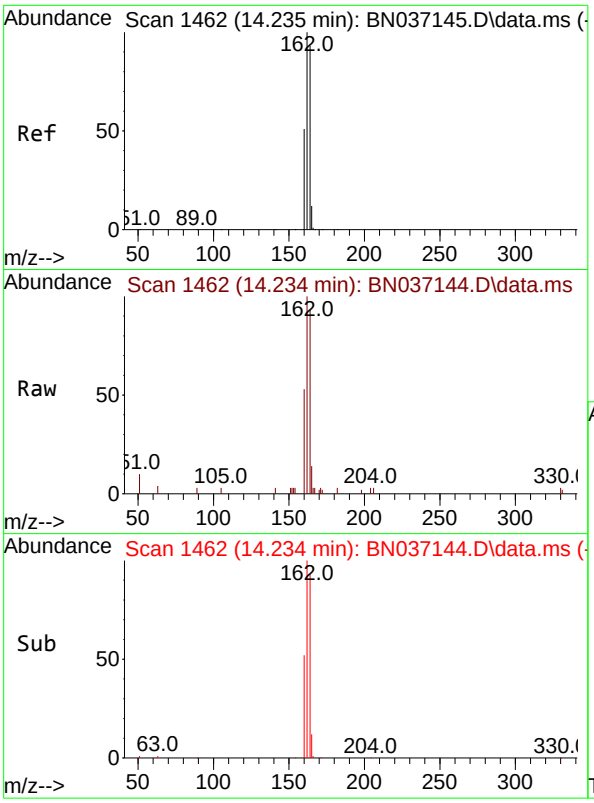


#12
2-Methylnaphthalene
Concen: 0.184 ng
RT: 12.046 min Scan# 1158
Delta R.T. 0.005 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:142 Resp: 1717

Ion	Ratio	Lower	Upper
142	100		
141	92.1	74.6	111.8
115	53.4	41.0	61.4



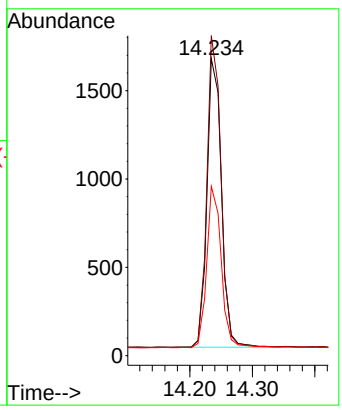


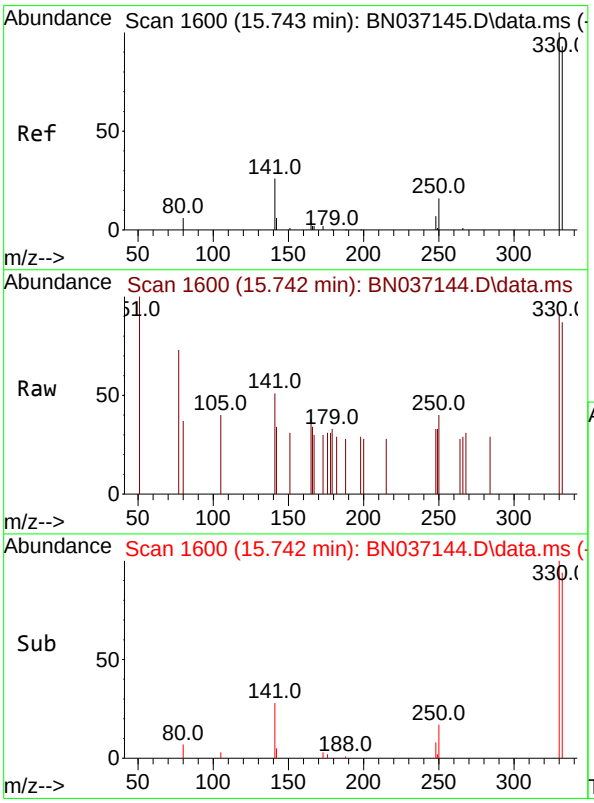
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 2624

Ion	Ratio	Lower	Upper
164	100		
162	107.7	85.5	128.3
160	57.0	44.6	67.0

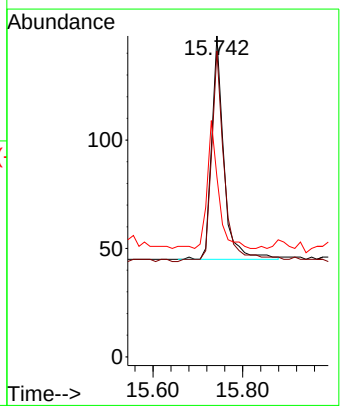


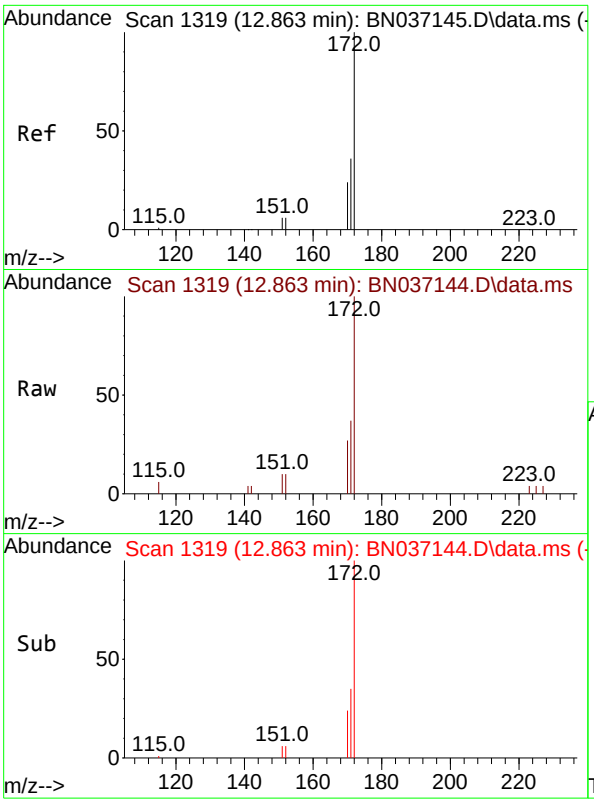


#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 15.742 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:330 Resp: 193

Ion	Ratio	Lower	Upper
330	100		
332	99.5	77.1	115.7
141	52.3	46.4	69.6



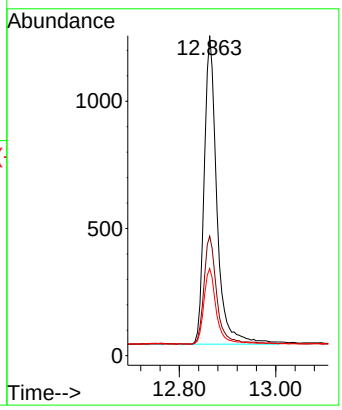


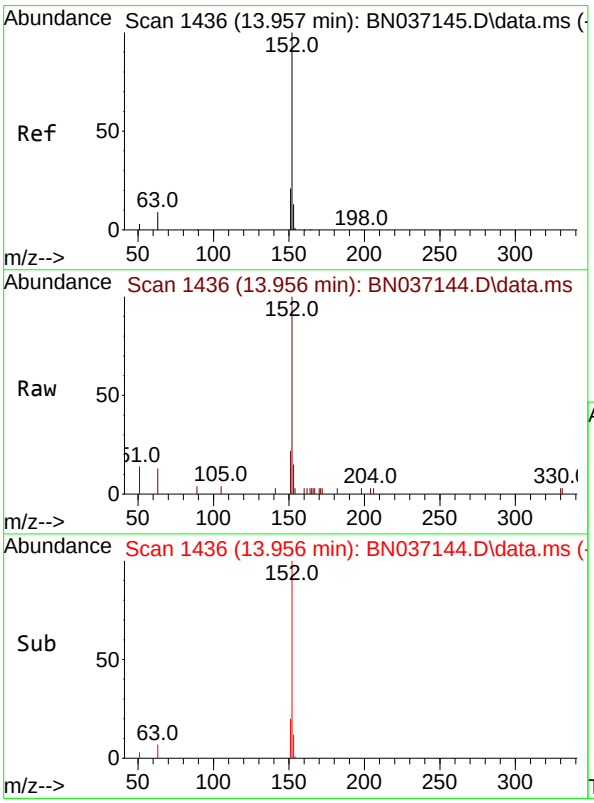
#15
2-Fluorobiphenyl
Concen: 0.198 ng
RT: 12.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2219

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.6	44.4
170	27.2	20.3	30.5

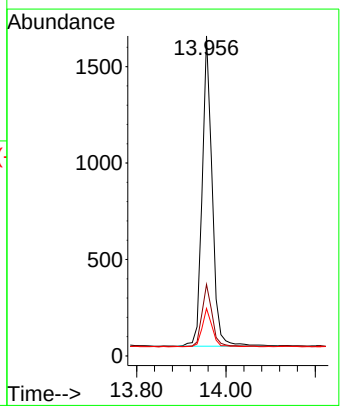


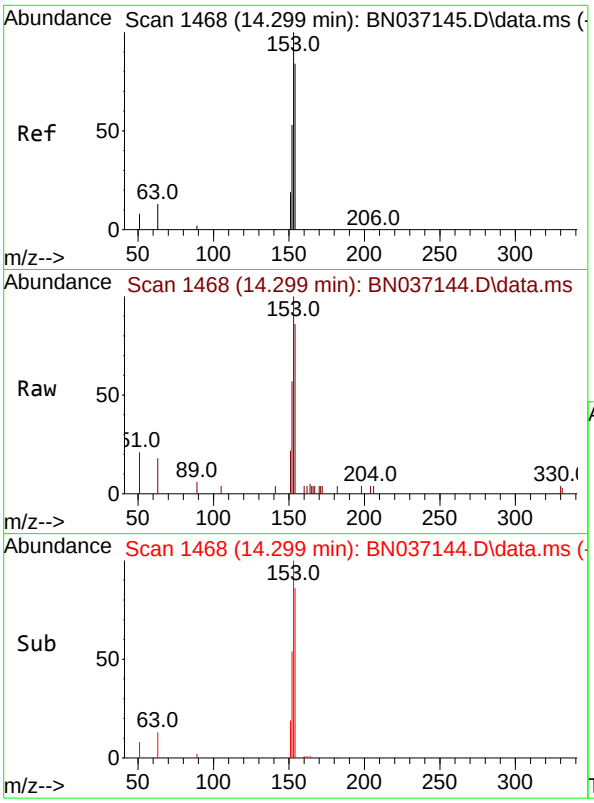


#16
Acenaphthylene
Concen: 0.194 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:152 Resp: 2500

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	12.6	10.6	15.8



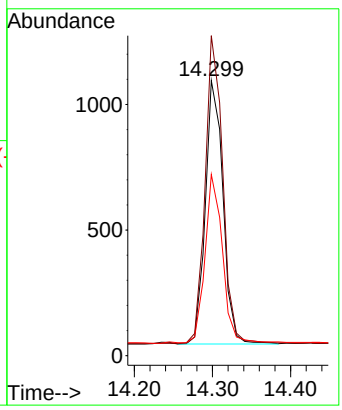


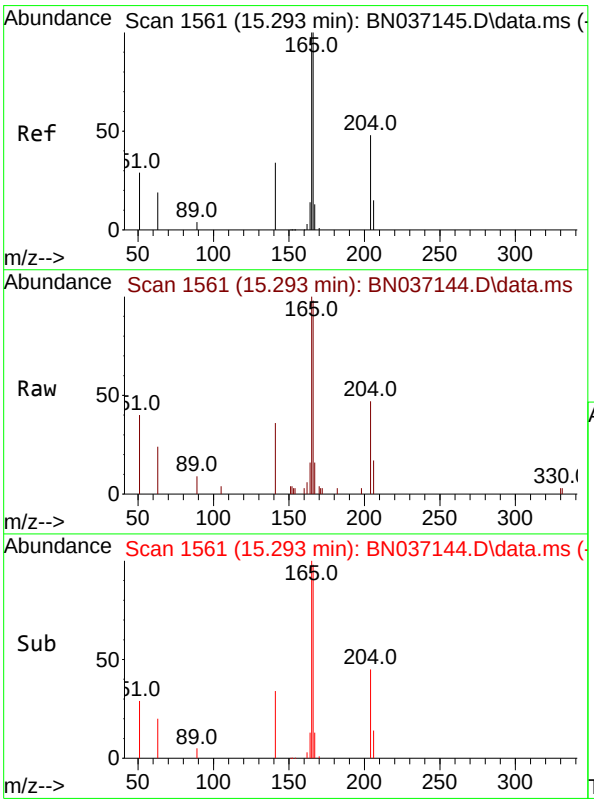
#17
Acenaphthene
Concen: 0.197 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 1644

Ion	Ratio	Lower	Upper
154	100		
153	117.0	93.8	140.8
152	65.3	50.5	75.7

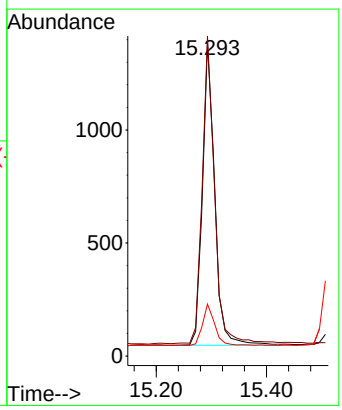


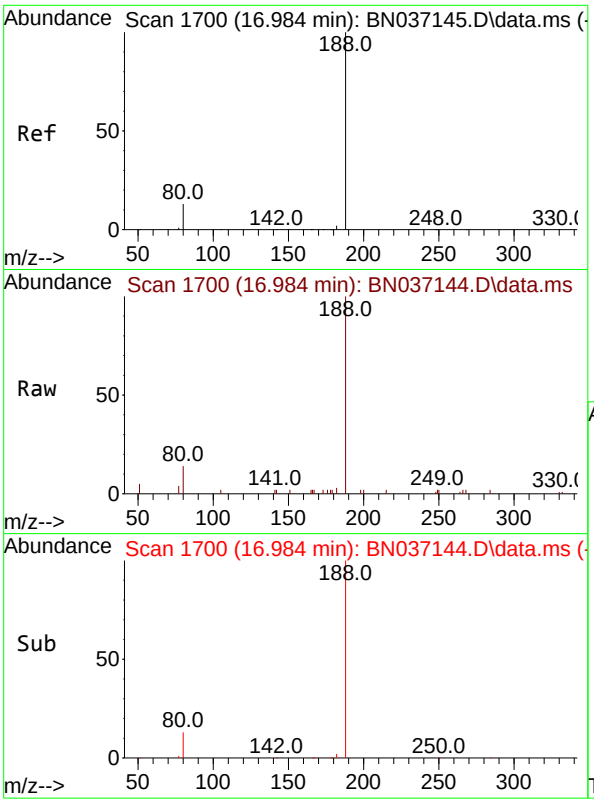


#18
Fluorene
Concen: 0.188 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:166 Resp: 2069

Ion	Ratio	Lower	Upper
166	100		
165	102.4	81.1	121.7
167	13.8	10.8	16.2



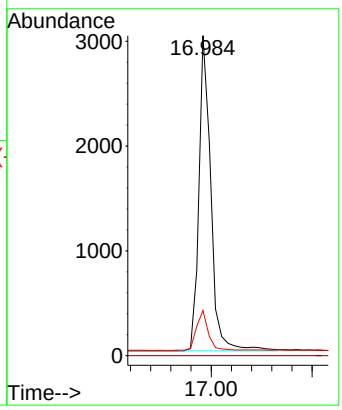


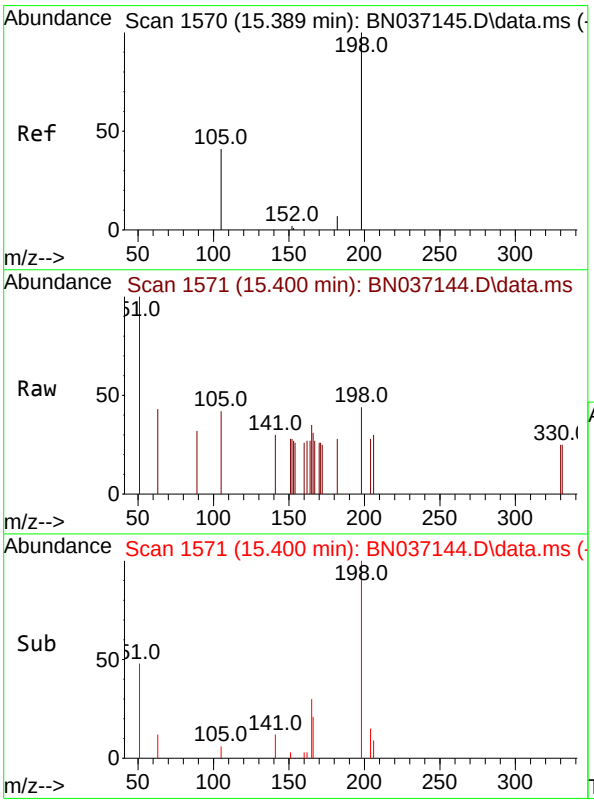
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 4950

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	11.3	16.9

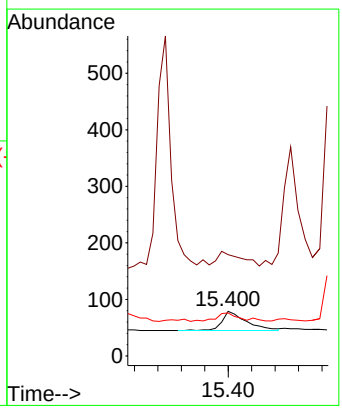


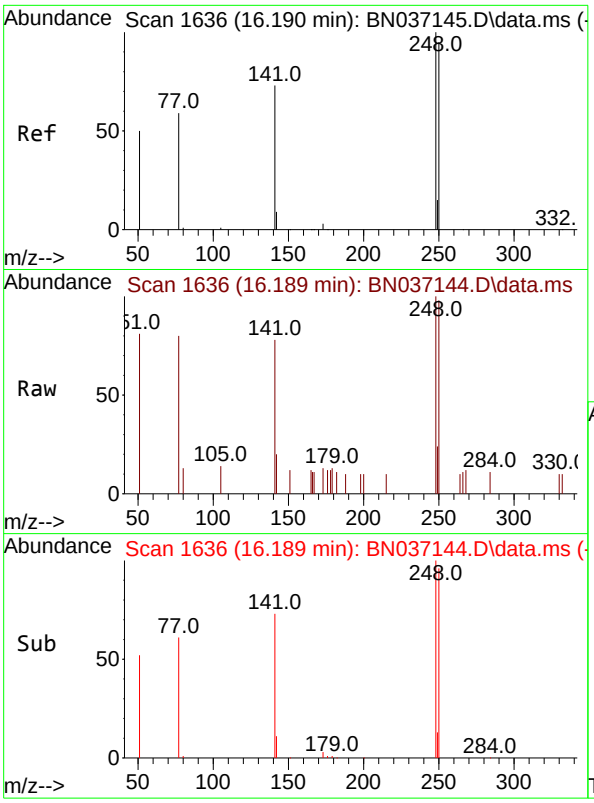


#20
4,6-Dinitro-2-methylphenol
Concen: 0.341 ng
RT: 15.400 min Scan# 1571
Delta R.T. 0.011 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:198 Resp: 97

Ion	Ratio	Lower	Upper
198	100		
51	226.6	125.2	187.8#
105	96.2	57.1	85.7#



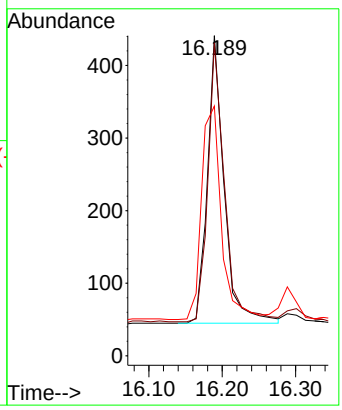


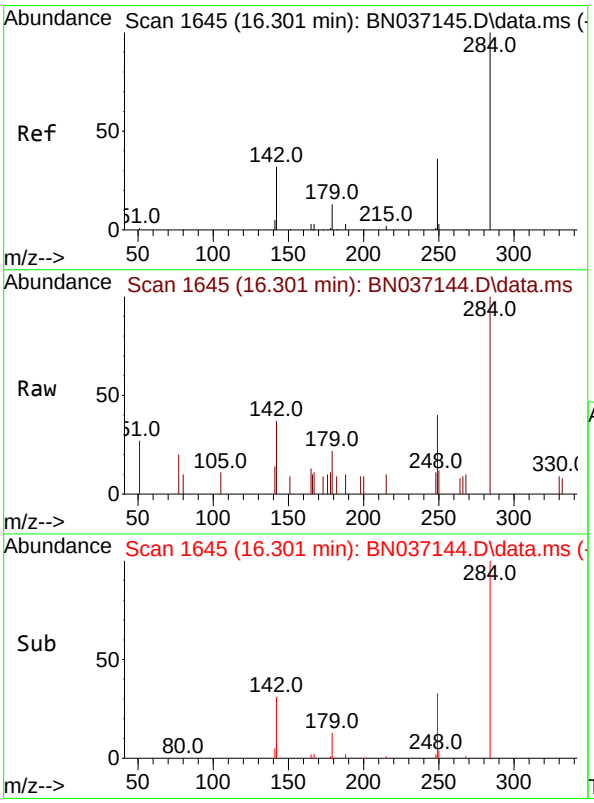
#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 626

Ion	Ratio	Lower	Upper
248	100		
250	97.7	76.1	114.1
141	78.0	60.1	90.1

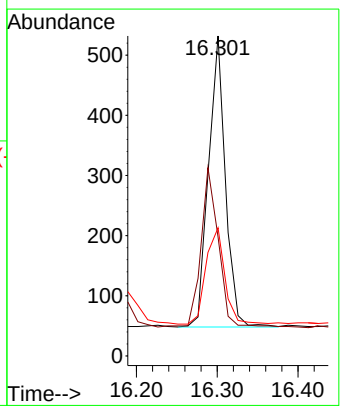


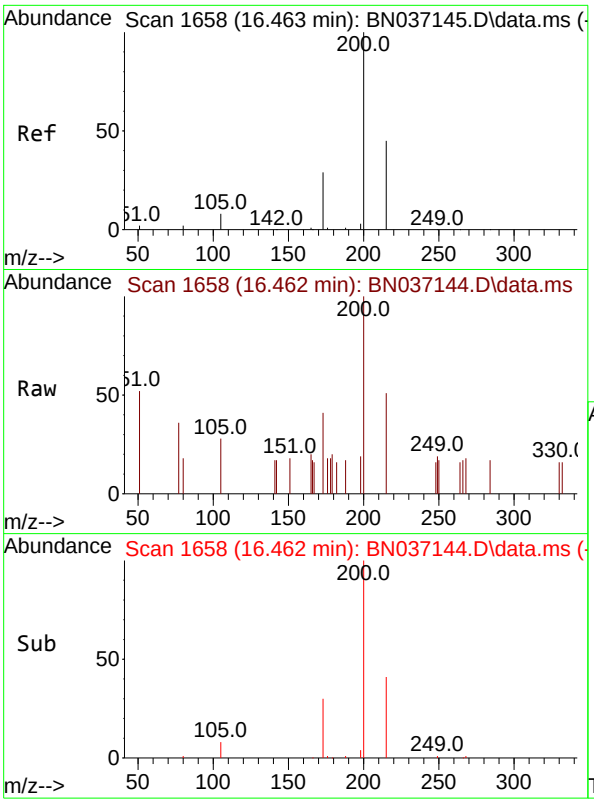


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.301 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:284 Resp: 703

Ion	Ratio	Lower	Upper
284	100		
142	57.2	44.0	66.0
249	36.7	29.7	44.5



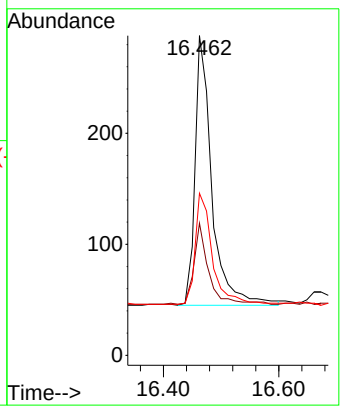


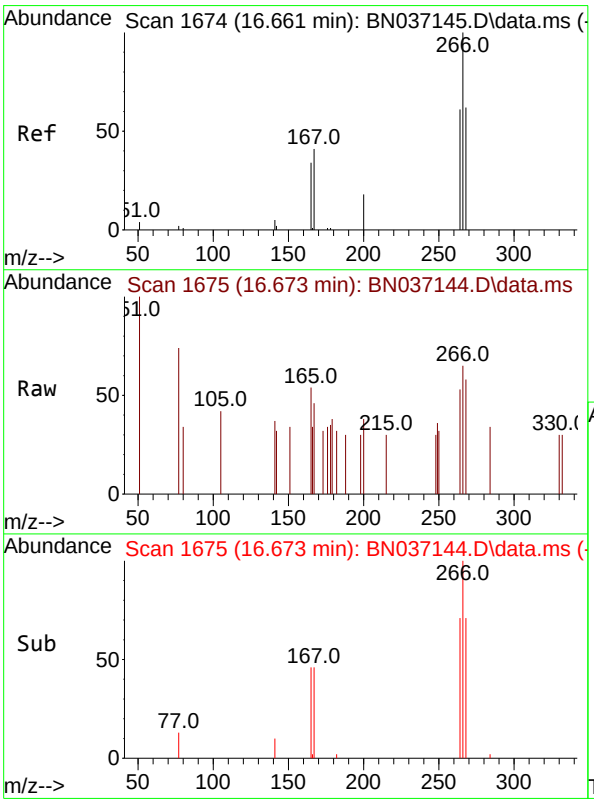
#23
Atrazine
Concen: 0.184 ng
RT: 16.462 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 494

Ion	Ratio	Lower	Upper
200	100		
173	41.3	28.1	42.1
215	50.7	39.3	58.9

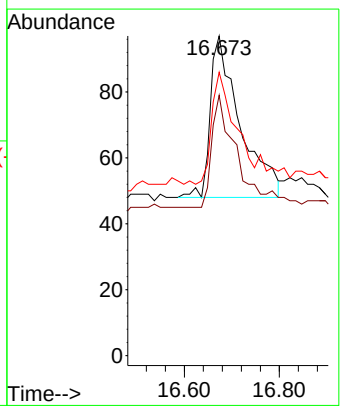


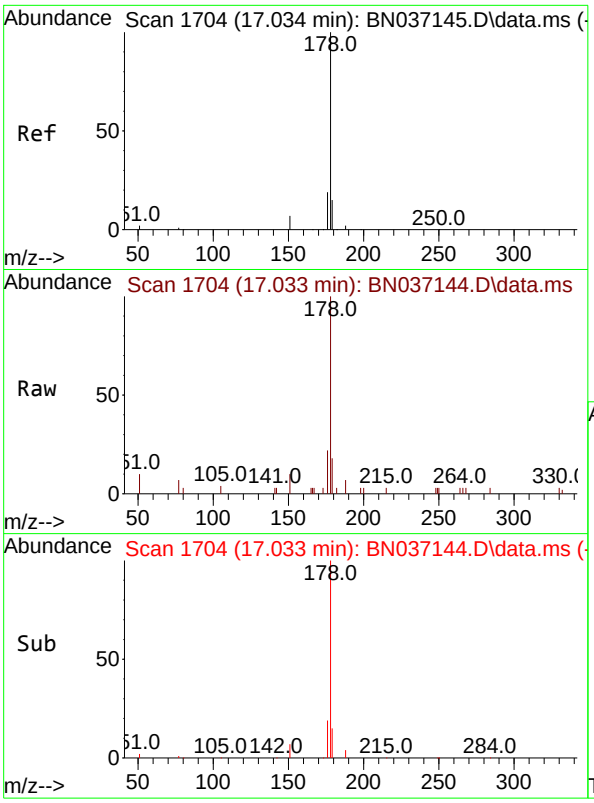


#24
Pentachlorophenol
Concen: 0.317 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.012 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:266 Resp: 214

Ion	Ratio	Lower	Upper
266	100		
264	57.9	49.3	73.9
268	62.1	49.0	73.4



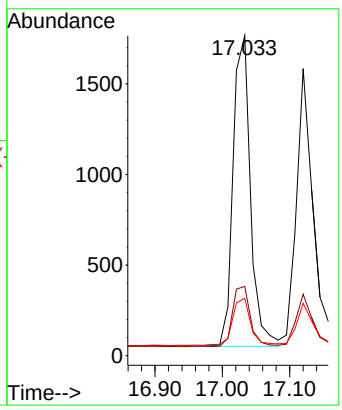


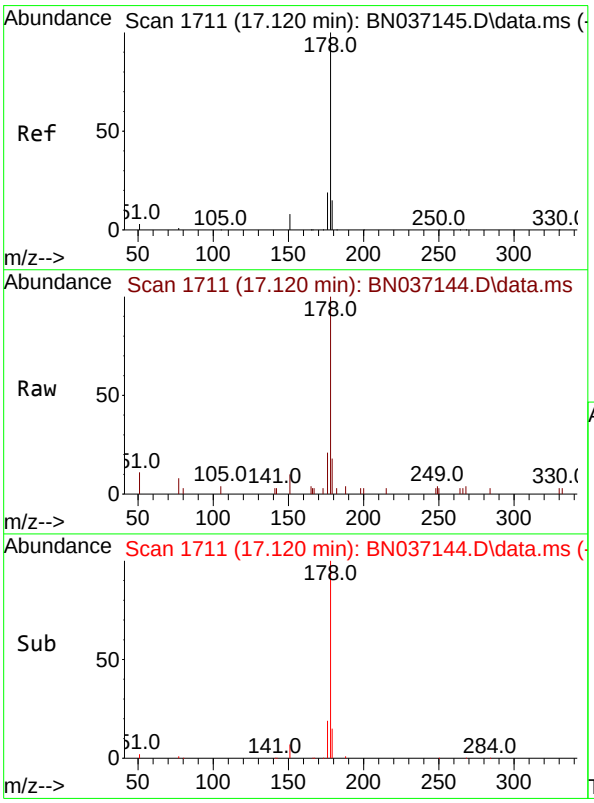
#25
Phenanthrene
Concen: 0.192 ng
RT: 17.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 3073

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.7	23.5
179	16.0	12.3	18.5

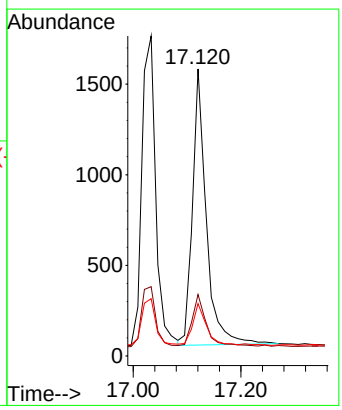


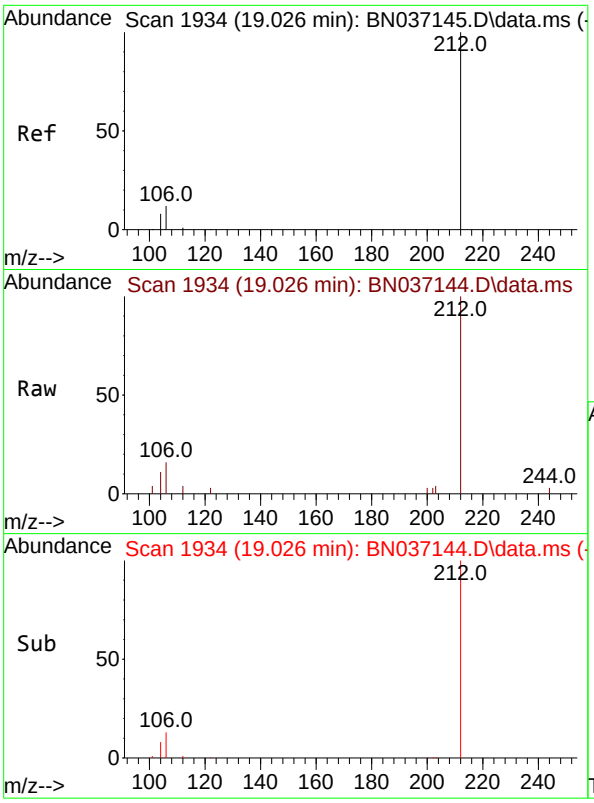


#26
Anthracene
Concen: 0.186 ng
RT: 17.120 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:178 Resp: 2721

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	14.5	12.9	19.3



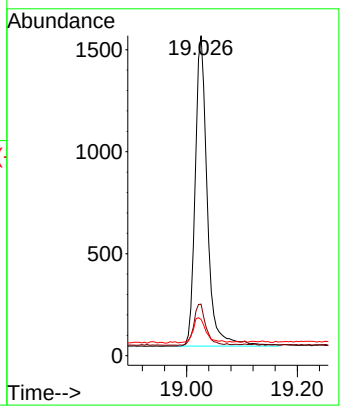


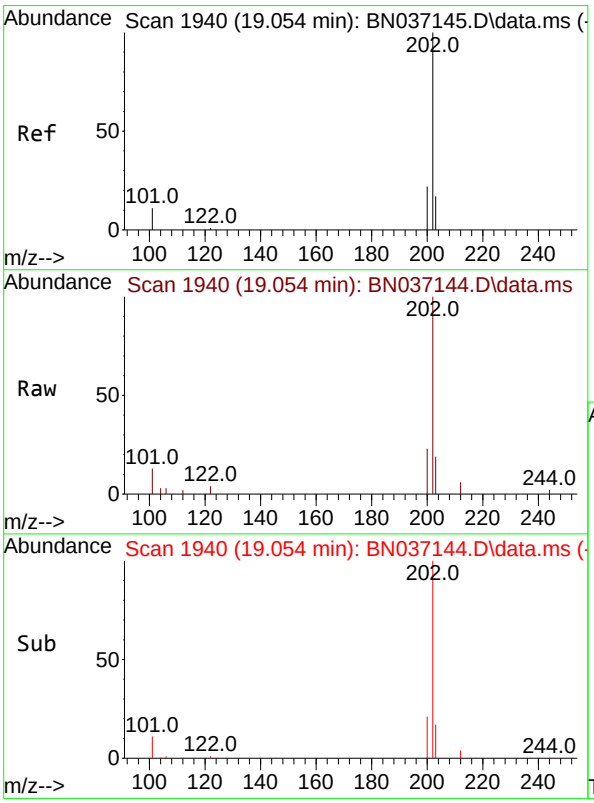
#27
Fluoranthene-d10
Concen: 0.184 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 2318

Ion	Ratio	Lower	Upper
212	100		
106	13.2	10.6	15.8
104	8.7	6.6	9.8

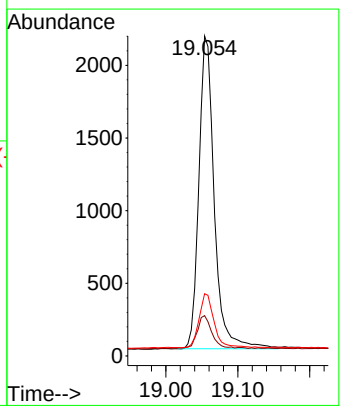


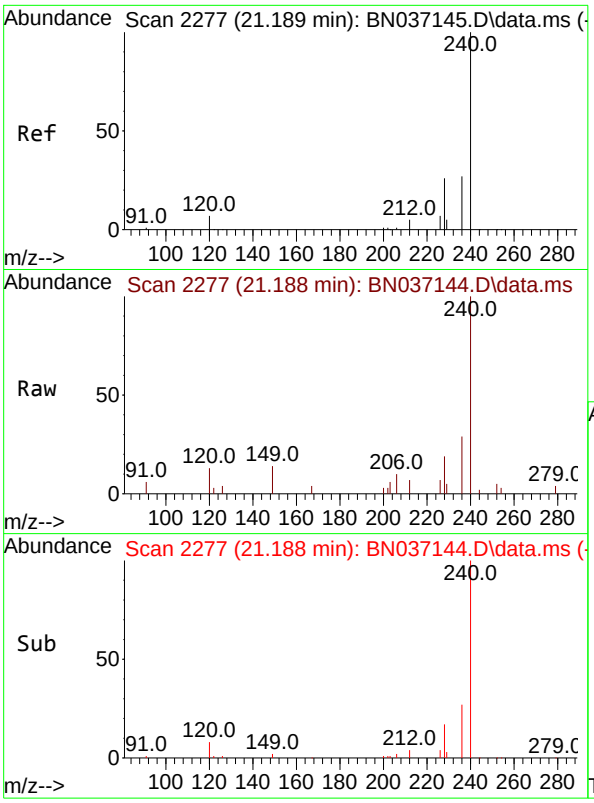


#28
Fluoranthene
Concen: 0.181 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:202 Resp: 3203

Ion	Ratio	Lower	Upper
202	100		
101	10.2	8.7	13.1
203	17.0	13.5	20.3



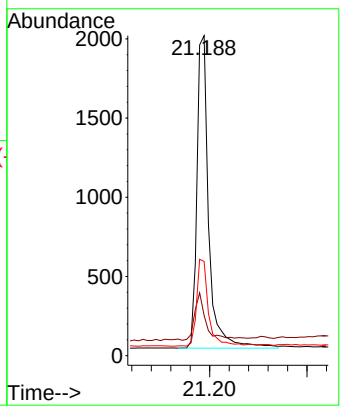


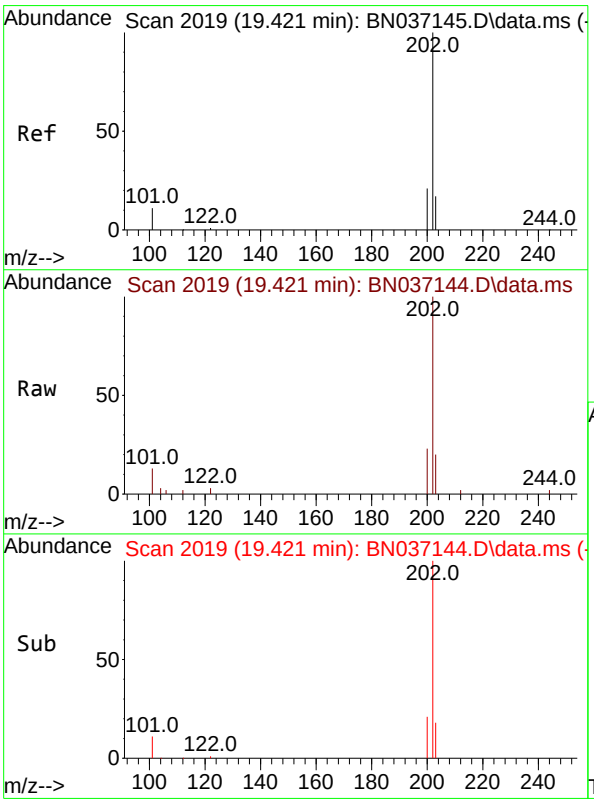
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.188 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 3306

Ion	Ratio	Lower	Upper
240	100		
120	12.5	9.0	13.4
236	29.5	23.0	34.4

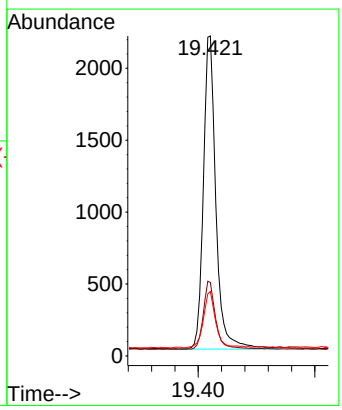


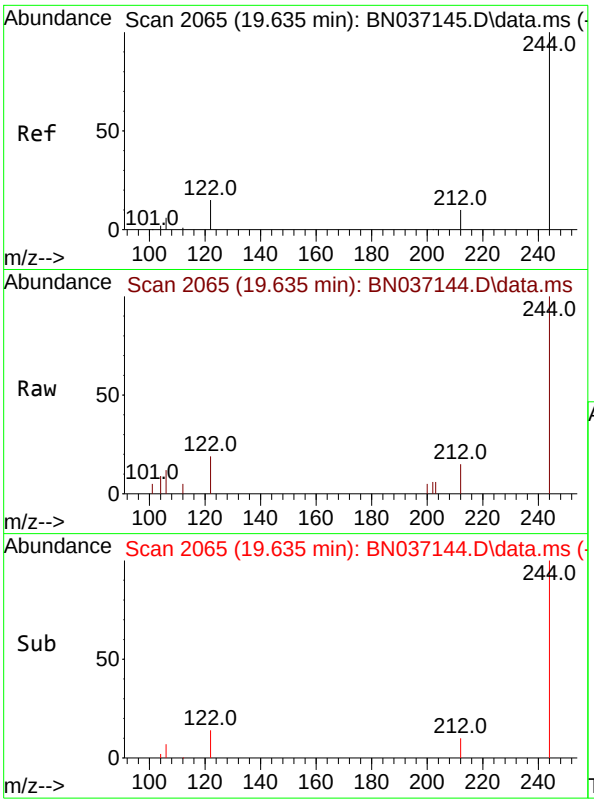


#30
Pyrene
Concen: 0.202 ng
RT: 19.421 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:202 Resp: 3263

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.7	14.2	21.4



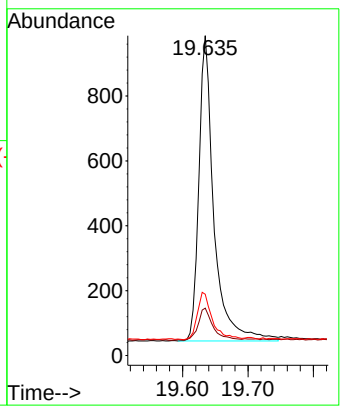


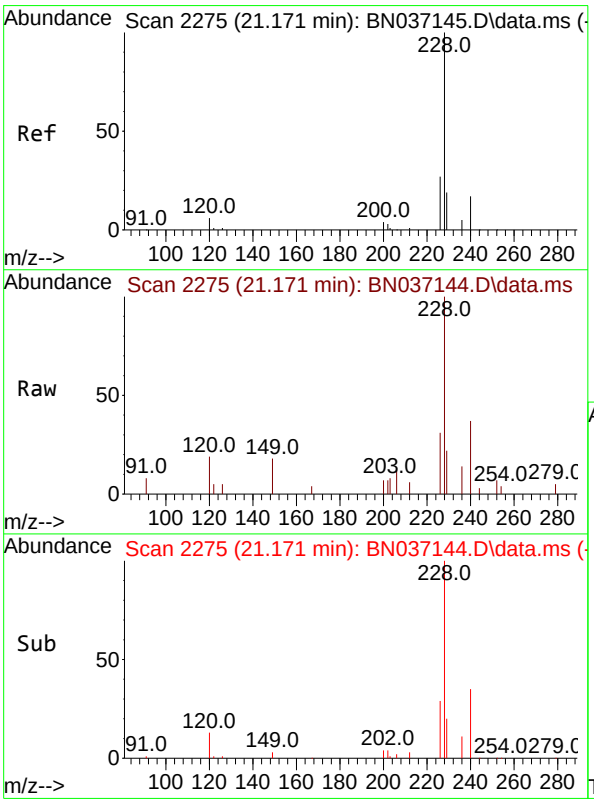
#31
Terphenyl-d14
Concen: 0.193 ng
RT: 19.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 1502

Ion	Ratio	Lower	Upper
244	100		
212	14.8	10.0	15.0
122	19.2	13.2	19.8

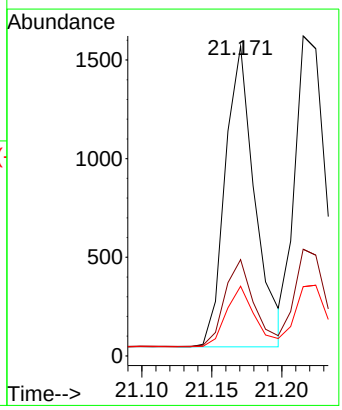


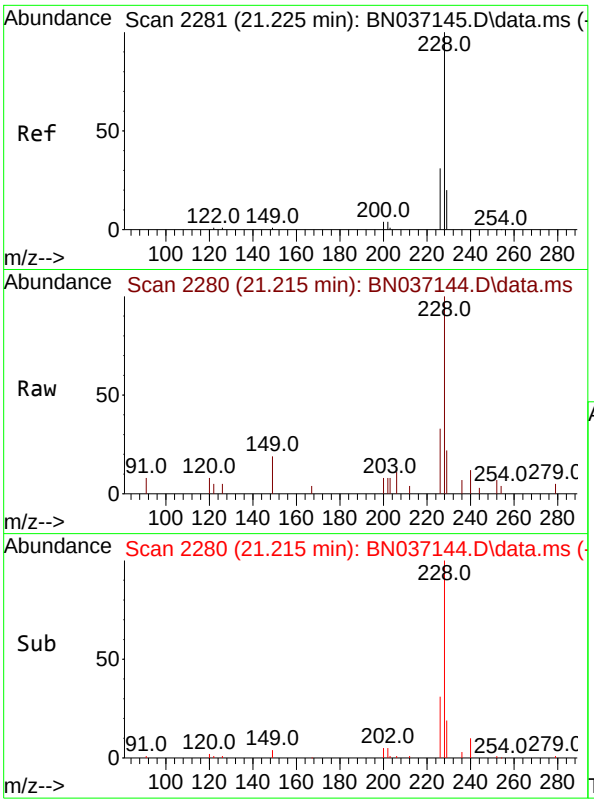


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:228 Resp: 2259

Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.6	33.8
229	22.5	16.2	24.2



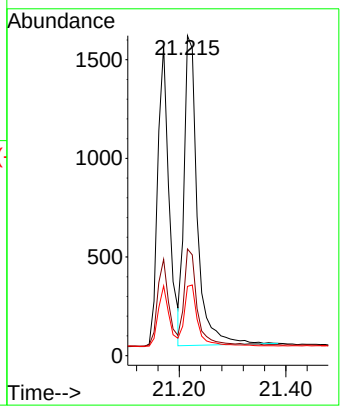


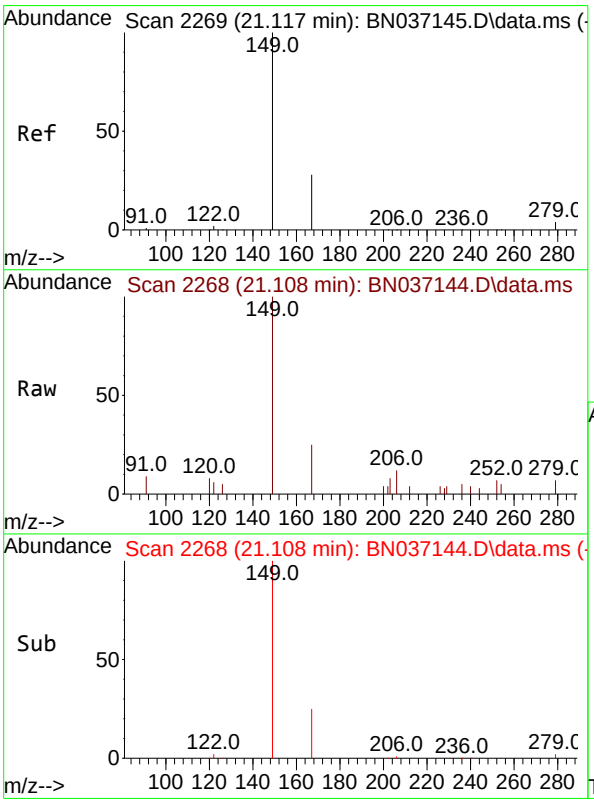
#33
Chrysene
Concen: 0.203 ng
RT: 21.215 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 2704

Ion	Ratio	Lower	Upper
228	100		
226	33.4	25.2	37.8
229	21.6	16.8	25.2

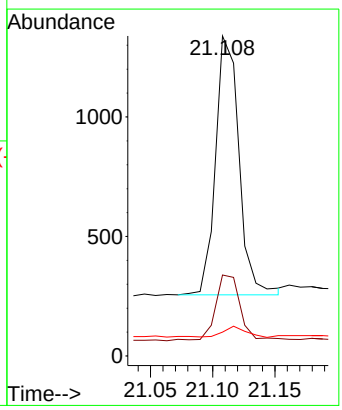


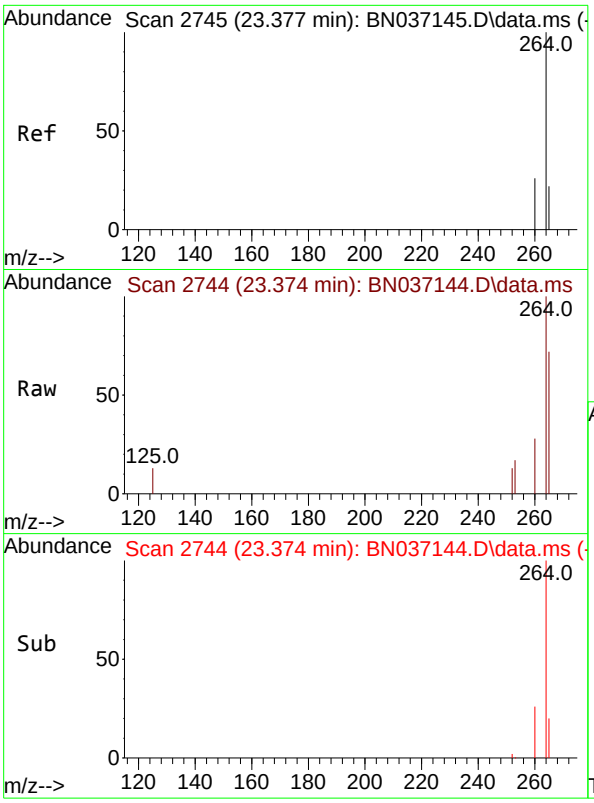


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.188 ng
RT: 21.108 min Scan# 2268
Delta R.T. -0.009 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:149 Resp: 1420

Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.0	31.4
279	4.1	2.9	4.3



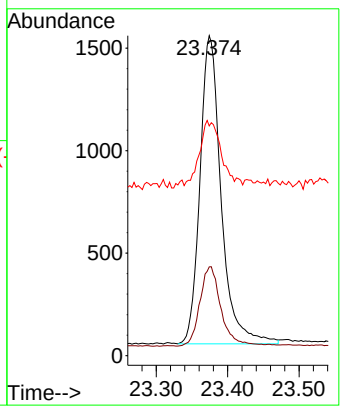


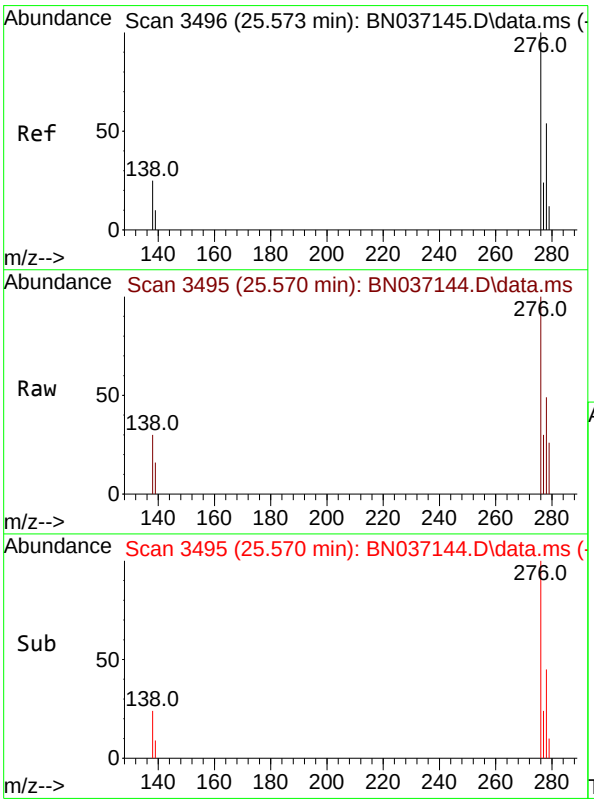
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.374 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 3099

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.1	33.1
265	71.8	55.8	83.8

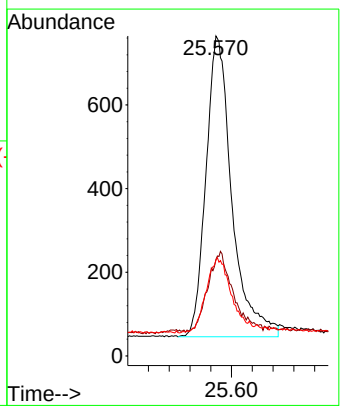


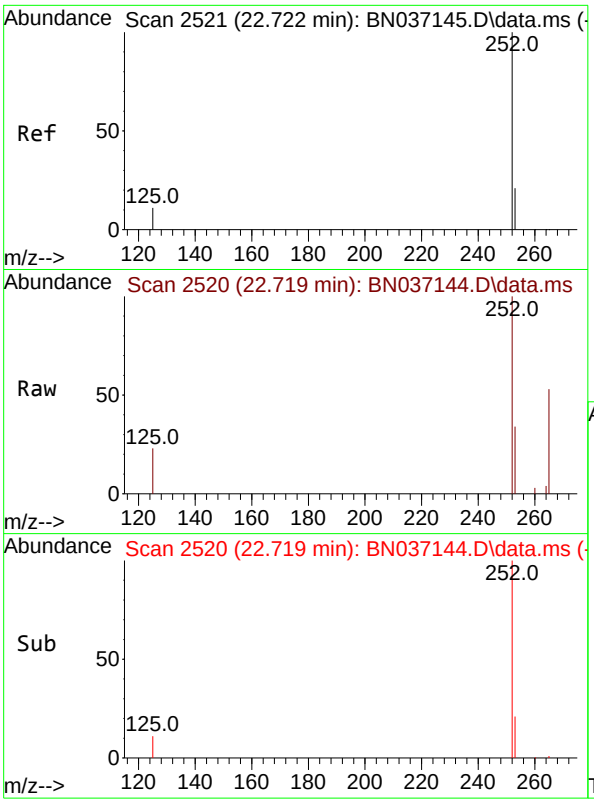


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.202 ng
RT: 25.570 min Scan# 3495
Delta R.T. -0.003 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:276 Resp: 2487

Ion	Ratio	Lower	Upper
276	100		
138	26.3	21.0	31.6
277	24.6	19.4	29.2



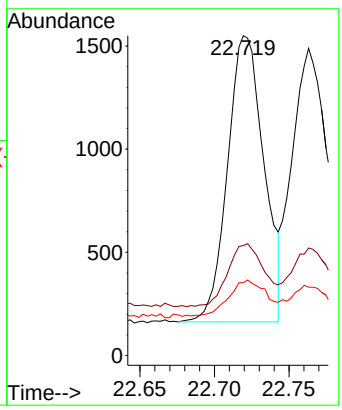


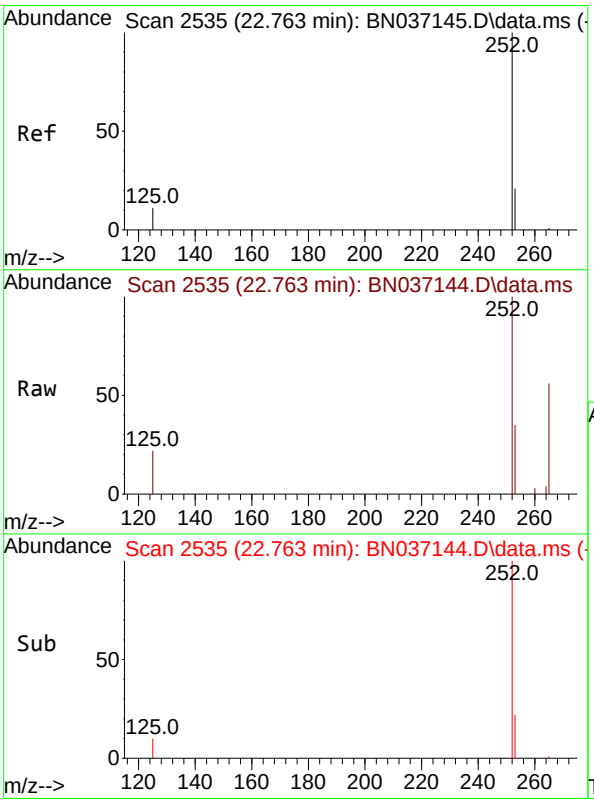
#37
Benzo(b)fluoranthene
Concen: 0.188 ng
RT: 22.719 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 2355

Ion	Ratio	Lower	Upper
252	100		
253	34.4	22.3	33.5#
125	22.8	13.2	19.8#

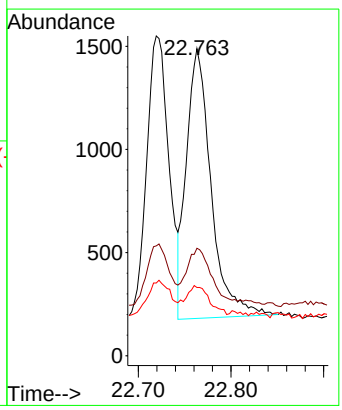


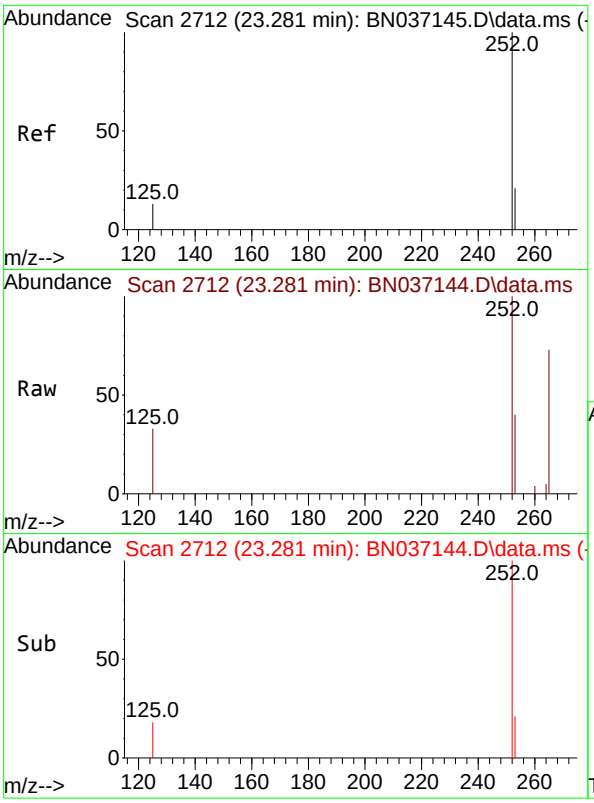


#38
Benzo(k)fluoranthene
Concen: 0.190 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:252 Resp: 2425

Ion	Ratio	Lower	Upper
252	100		
253	35.0	22.2	33.4#
125	22.2	13.2	19.8#



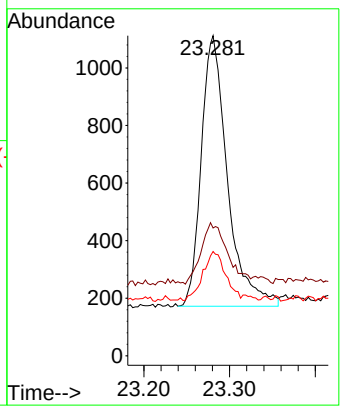


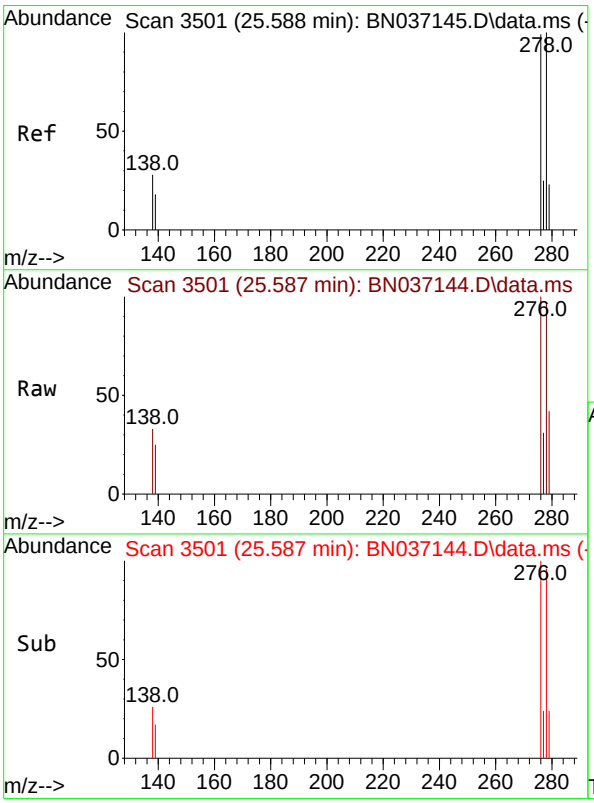
#39
Benzo(a)pyrene
Concen: 0.190 ng
RT: 23.281 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 1994

Ion	Ratio	Lower	Upper
252	100		
253	39.9	25.0	37.4#
125	32.6	17.0	25.6#

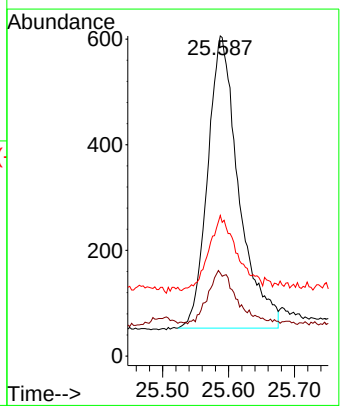


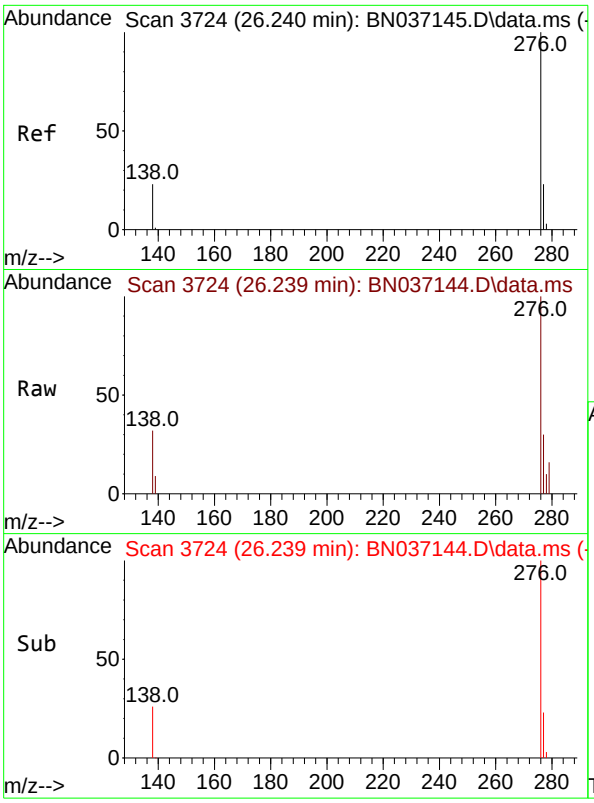


#40
Dibenzo(a,h)anthracene
Concen: 0.190 ng
RT: 25.587 min Scan# 3501
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Tgt Ion:278 Resp: 1809

Ion	Ratio	Lower	Upper
278	100		
139	25.9	17.6	26.4
279	43.9	26.0	39.0#



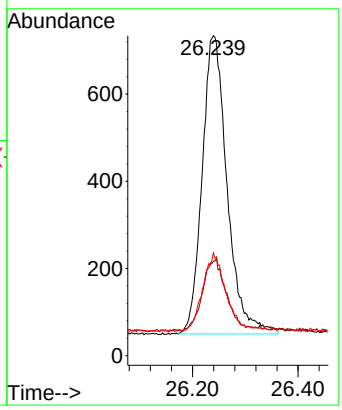


#41
Benzo(g,h,i)perylene
Concen: 0.206 ng
RT: 26.239 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037144.D
Acq: 03 Jun 2025 12:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 2247

Ion	Ratio	Lower	Upper
276	100		
277	29.6	20.9	31.3
138	32.2	20.8	31.2#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037145.D
Acq On : 03 Jun 2025 12:51
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 04 01:42:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.590	152	2099	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	5221	0.400	ng		0.00
13) Acenaphthene-d10	14.235	164	2886	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	5446	0.400	ng		0.00
29) Chrysene-d12	21.189	240	3769	0.400	ng		0.00
35) Perylene-d12	23.377	264	3386	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	1973	0.380	ng		0.00
5) Phenol-d6	6.773	99	2365	0.376	ng		0.00
8) Nitrobenzene-d5	8.739	82	2197	0.399	ng		0.00
11) 2-Methylnaphthalene-d10	11.971	152	2936	0.404	ng		0.00
14) 2,4,6-Tribromophenol	15.743	330	421	0.362	ng		0.00
15) 2-Fluorobiphenyl	12.863	172	4694	0.381	ng		0.00
27) Fluoranthene-d10	19.026	212	5309	0.384	ng		0.00
31) Terphenyl-d14	19.635	244	3376	0.381	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.126	88	1070	0.382	ng		100
3) n-Nitrosodimethylamine	3.437	42	2228	0.397	ng		100
6) bis(2-Chloroethyl)ether	7.026	93	2367	0.394	ng		100
9) Naphthalene	10.415	128	5840	0.388	ng		100
10) Hexachlorobutadiene	10.714	225	1363	0.415	ng	#	100
12) 2-Methylnaphthalene	12.042	142	3609	0.374	ng		100
16) Acenaphthylene	13.957	152	5103	0.361	ng		100
17) Acenaphthene	14.299	154	3344	0.364	ng		100
18) Fluorene	15.293	166	4380	0.363	ng		100
20) 4,6-Dinitro-2-methylph...	15.389	198	272	0.445	ng		100
21) 4-Bromophenyl-phenylether	16.190	248	1329	0.372	ng		100
22) Hexachlorobenzene	16.301	284	1463	0.380	ng		100
23) Atrazine	16.463	200	1018	0.345	ng		100
24) Pentachlorophenol	16.661	266	502	0.433	ng		100
25) Phenanthrene	17.034	178	6496	0.368	ng		100
26) Anthracene	17.120	178	5644	0.351	ng		100
28) Fluoranthene	19.054	202	6952	0.357	ng		100
30) Pyrene	19.421	202	6885	0.374	ng		100
32) Benzo(a)anthracene	21.171	228	4866	0.357	ng		100
33) Chrysene	21.225	228	5553	0.366	ng		100
34) Bis(2-ethylhexyl)phtha...	21.117	149	2918	0.339	ng		100
36) Indeno(1,2,3-cd)pyrene	25.573	276	5083	0.377	ng		100
37) Benzo(b)fluoranthene	22.722	252	4811	0.352	ng		100
38) Benzo(k)fluoranthene	22.763	252	4946	0.354	ng		100
39) Benzo(a)pyrene	23.281	252	4127	0.360	ng		100
40) Dibenzo(a,h)anthracene	25.588	278	3928	0.378	ng		100
41) Benzo(g,h,i)perylene	26.240	276	4576	0.383	ng		100

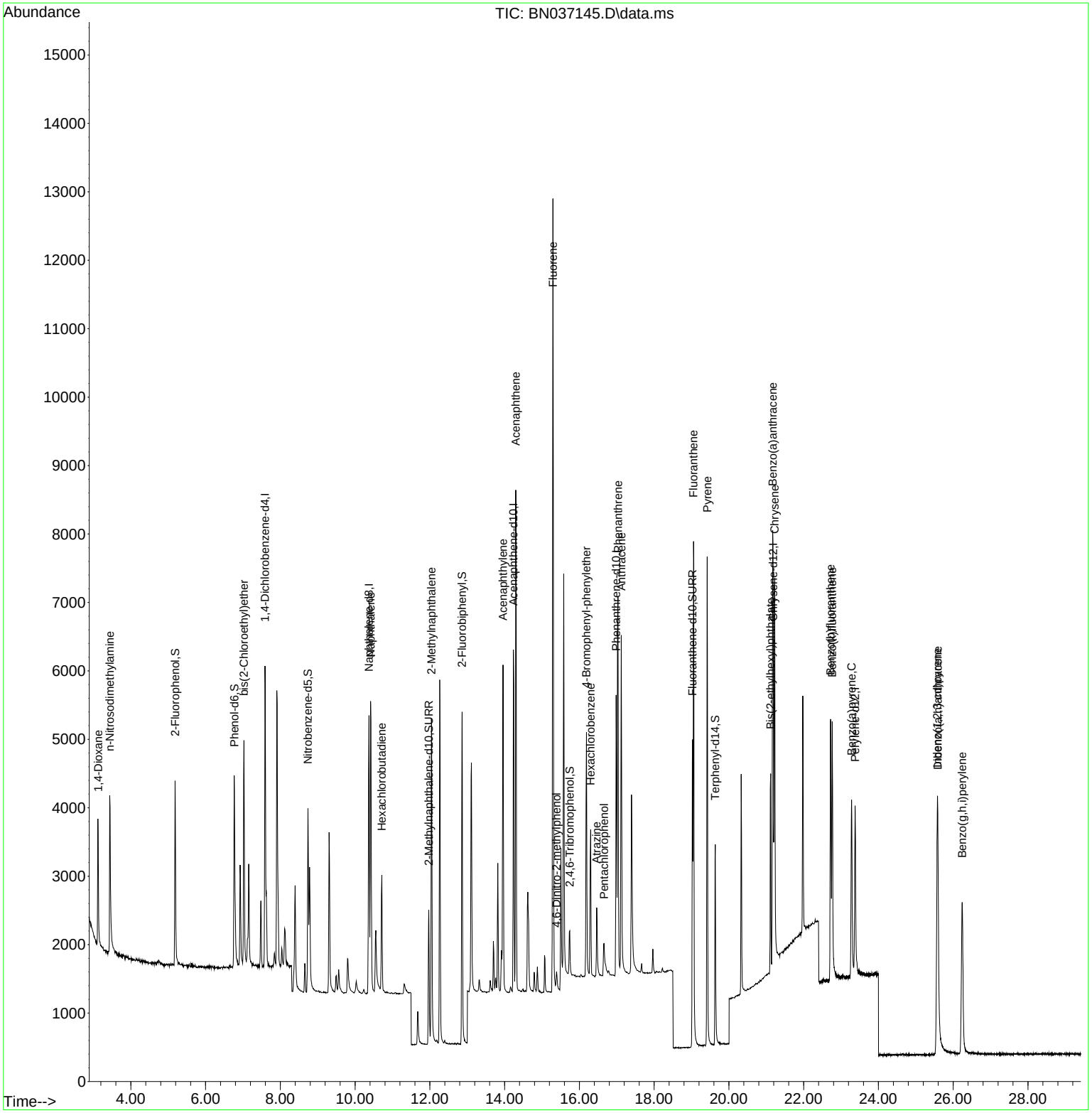
(#) = qualifier out of range (m) = manual integration (+) = signals summed

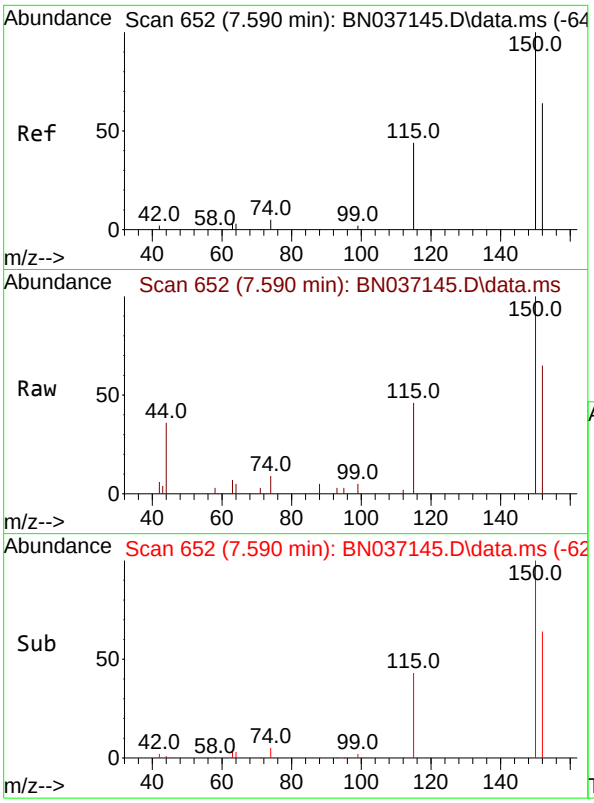
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037145.D
Acq On : 03 Jun 2025 12:51
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 04 01:42:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration



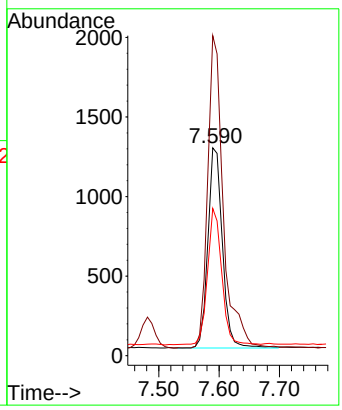


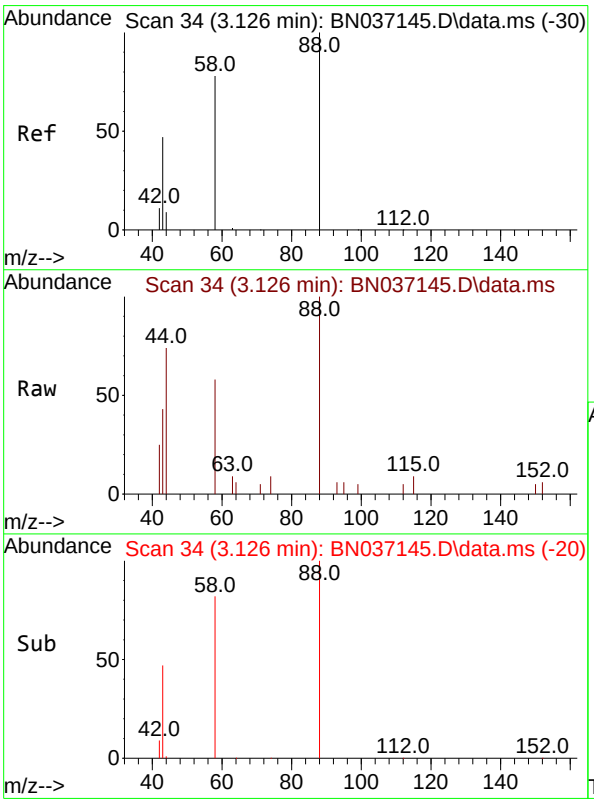
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.590 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2099

Ion	Ratio	Lower	Upper
152	100		
150	154.0	123.2	184.8
115	70.8	56.6	85.0

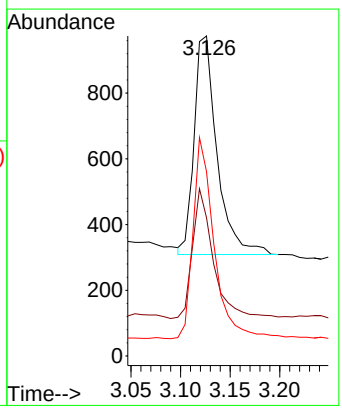


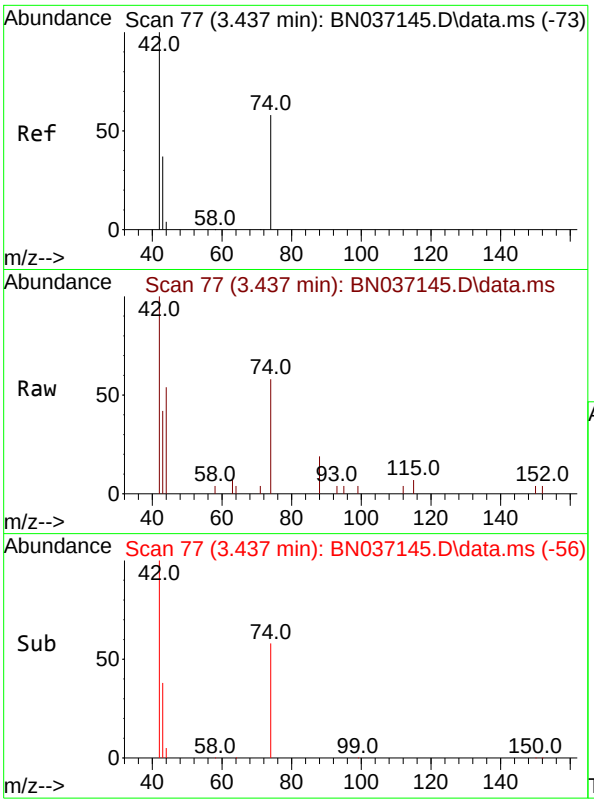


#2
1,4-Dioxane
Concen: 0.382 ng
RT: 3.126 min Scan# 34
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion: 88 Resp: 1070

Ion	Ratio	Lower	Upper
88	100		
43	54.3	43.5	65.3
58	84.5	67.7	101.5



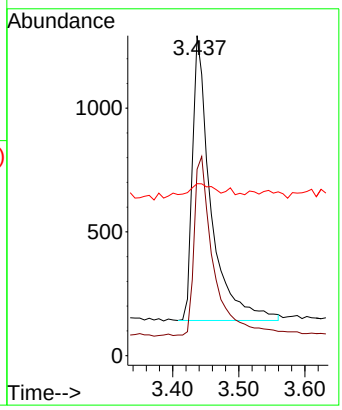


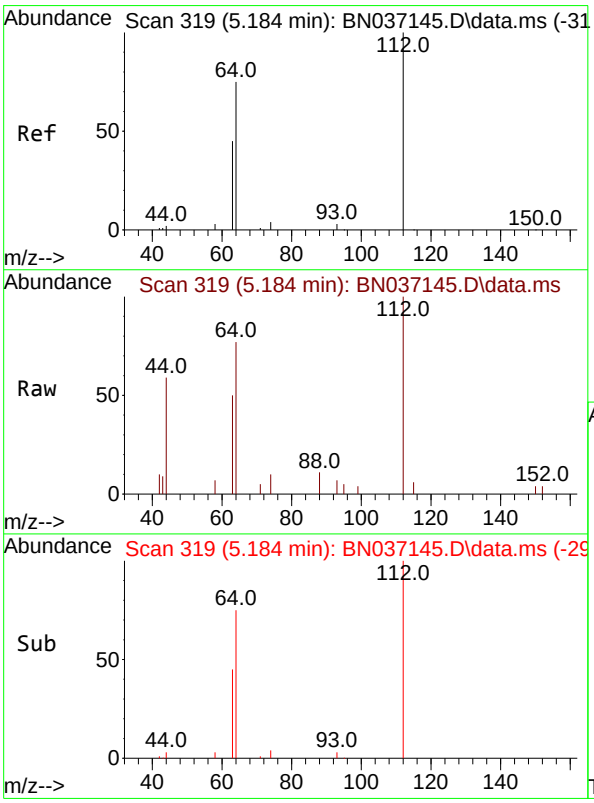
#3
n-Nitrosodimethylamine
Concen: 0.397 ng
RT: 3.437 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 2228

Ion	Ratio	Lower	Upper
42	100		
74	66.2	53.0	79.4
44	7.4	5.9	8.9

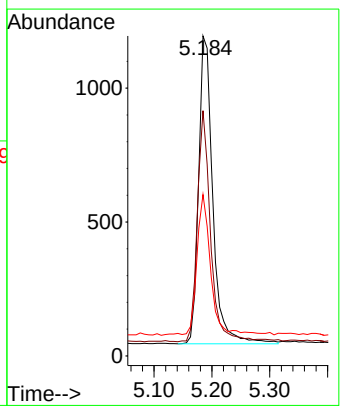


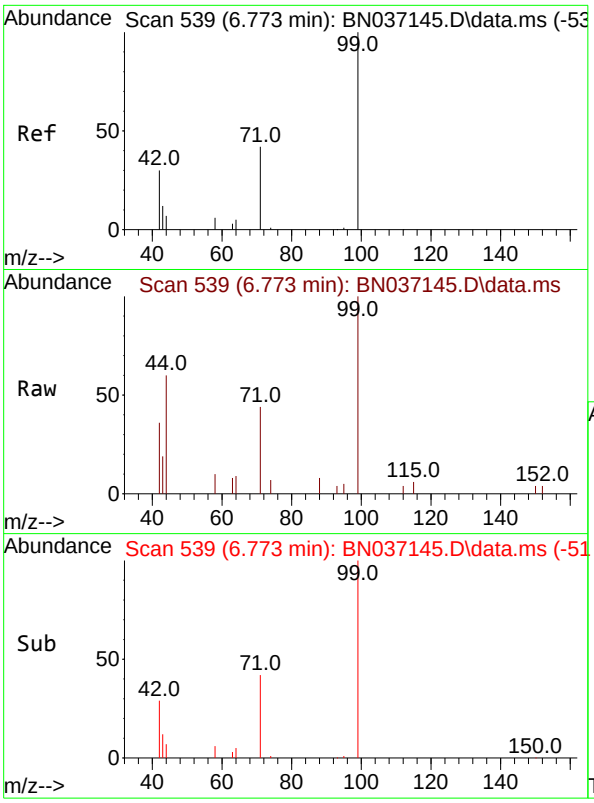


#4
2-Fluorophenol
Concen: 0.380 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:112 Resp: 1973

Ion	Ratio	Lower	Upper
112	100		
64	70.4	56.3	84.5
63	45.3	36.2	54.4



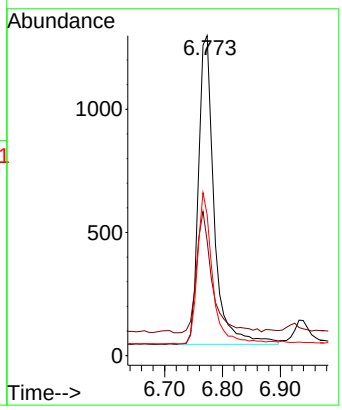


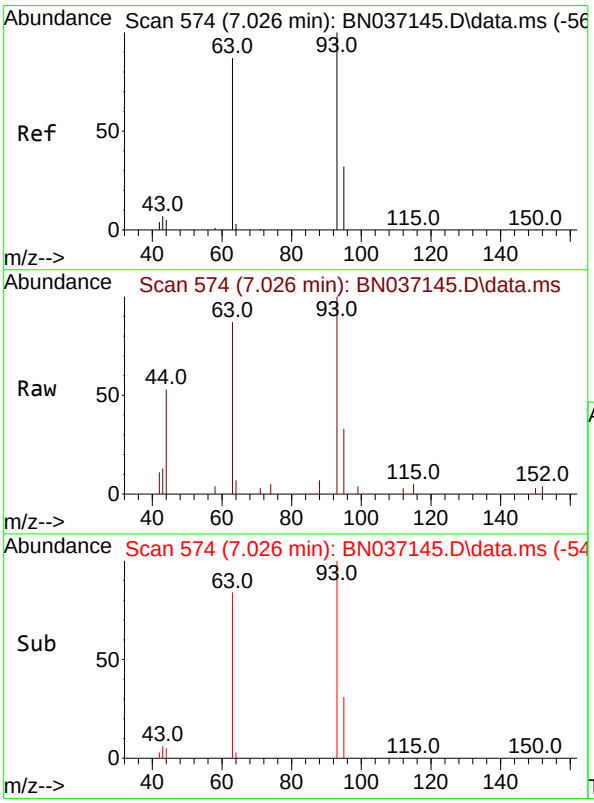
#5
Phenol-d6
Concen: 0.376 ng
RT: 6.773 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2365

Ion	Ratio	Lower	Upper
99	100		
42	39.1	31.3	46.9
71	47.7	38.2	57.2

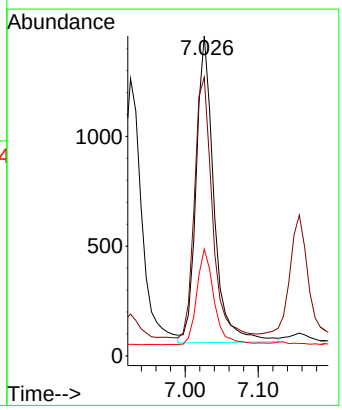


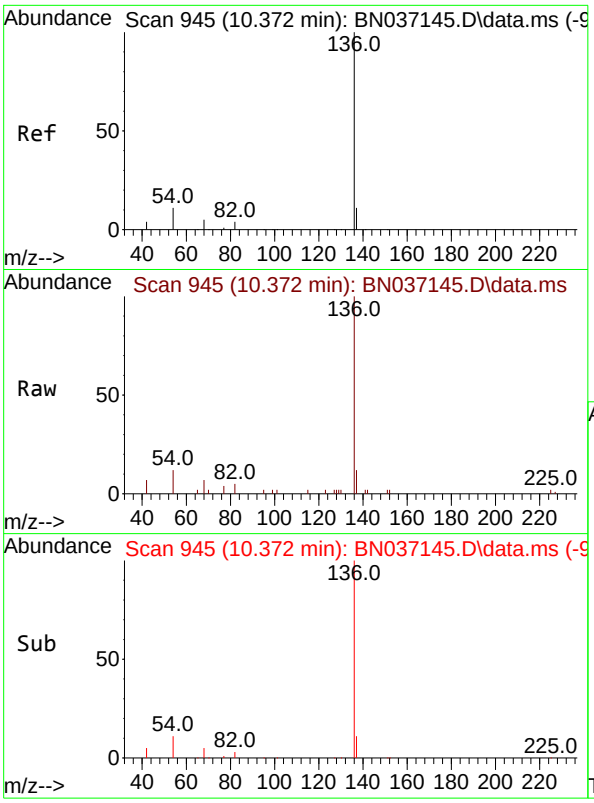


#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.026 min Scan# 574
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion: 93 Resp: 2367

Ion	Ratio	Lower	Upper
93	100		
63	85.5	68.6	103.0
95	30.3	24.3	36.5



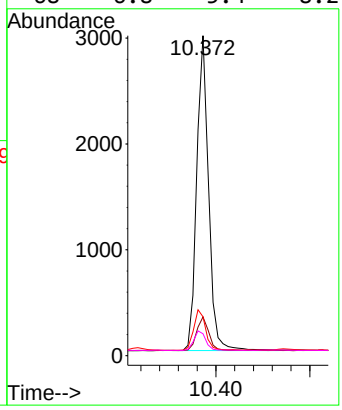


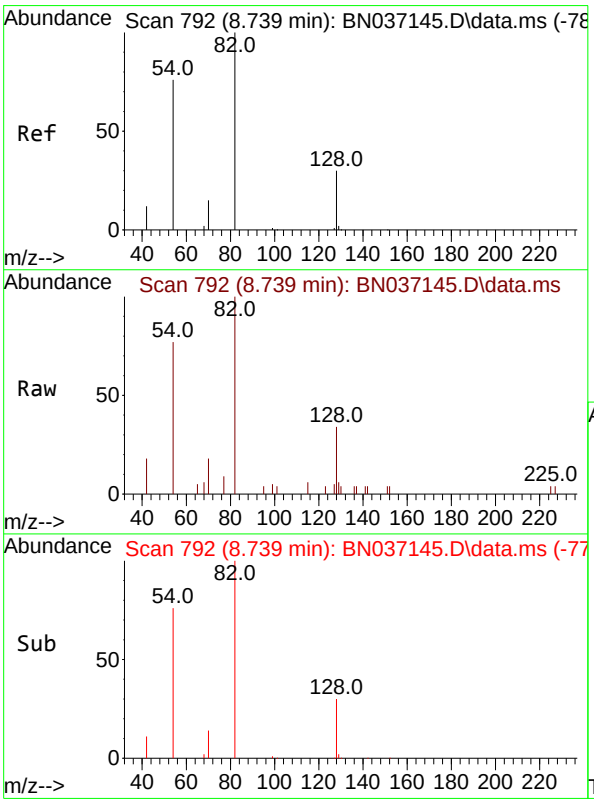
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5221

Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	12.1	9.7	14.5
68	6.8	5.4	8.2

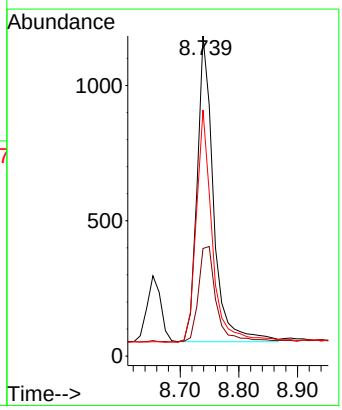


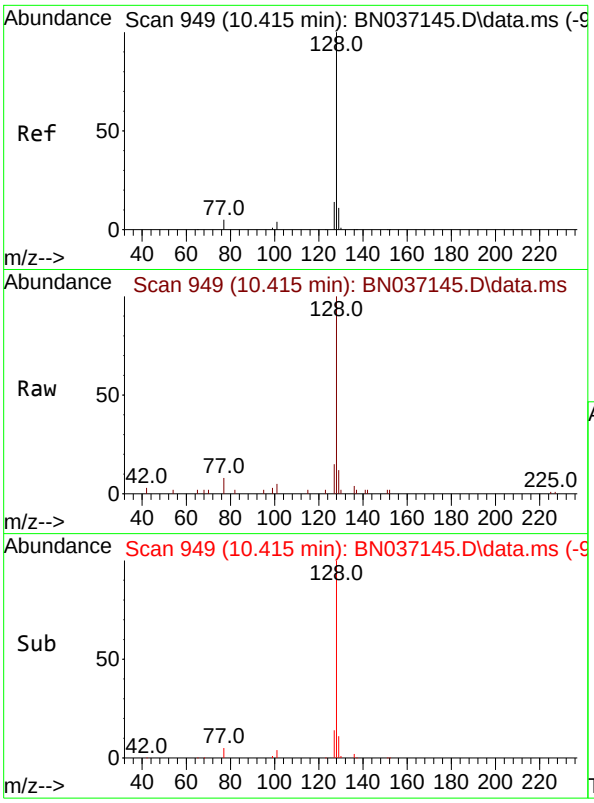


#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion: 82 Resp: 2197

Ion	Ratio	Lower	Upper
82	100		
128	33.6	26.9	40.3
54	76.8	61.4	92.2



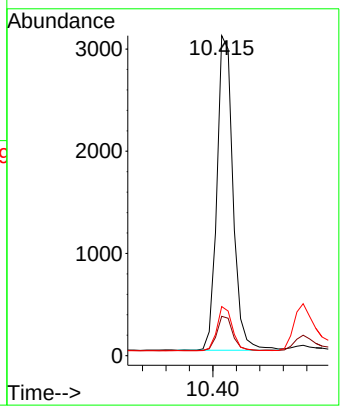


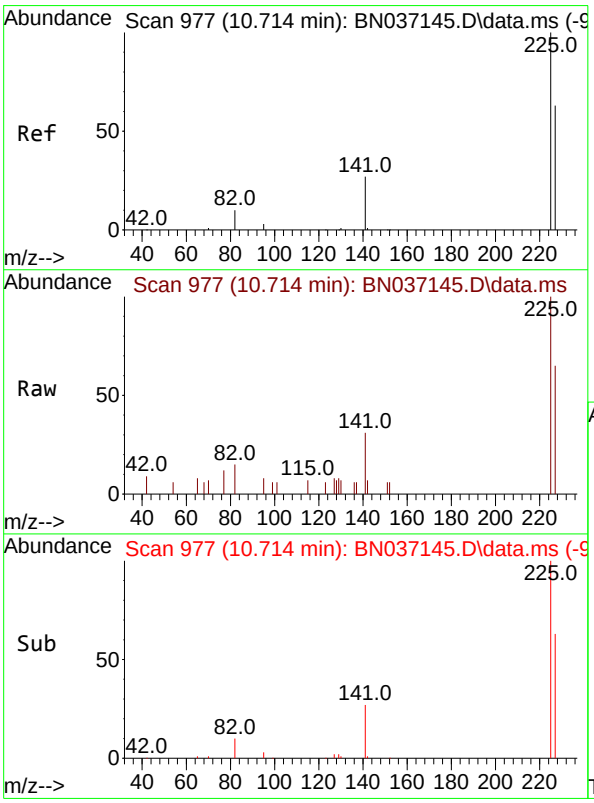
#9
Naphthalene
Concen: 0.388 ng
RT: 10.415 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 5840

Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.8	14.8
127	15.4	12.3	18.5

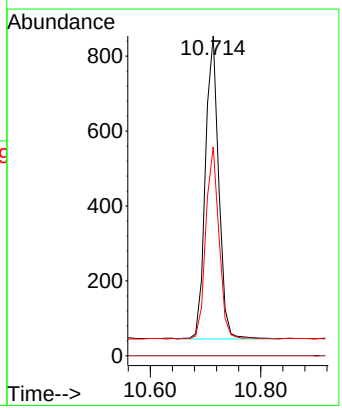


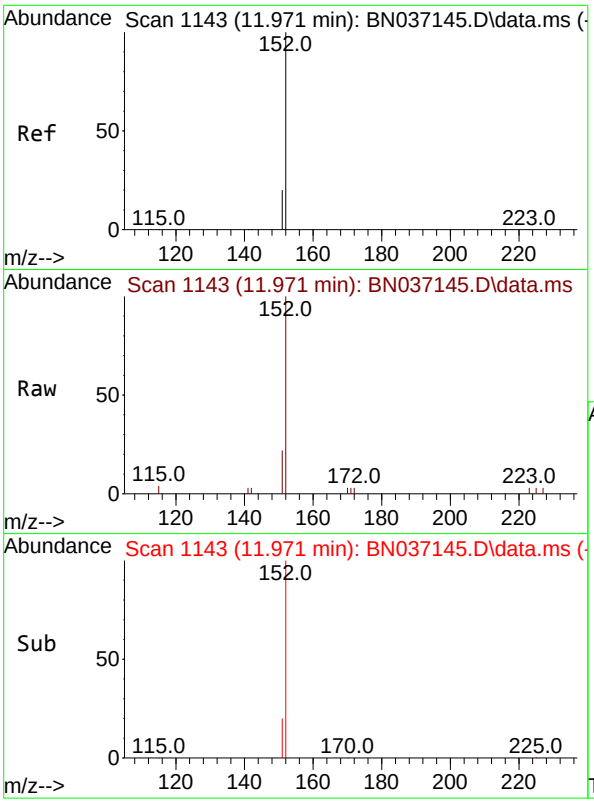


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.714 min Scan# 977
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:225 Resp: 1363

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	50.3	75.5



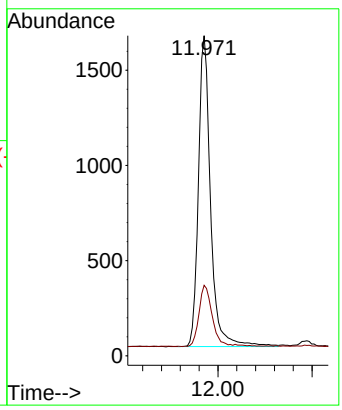


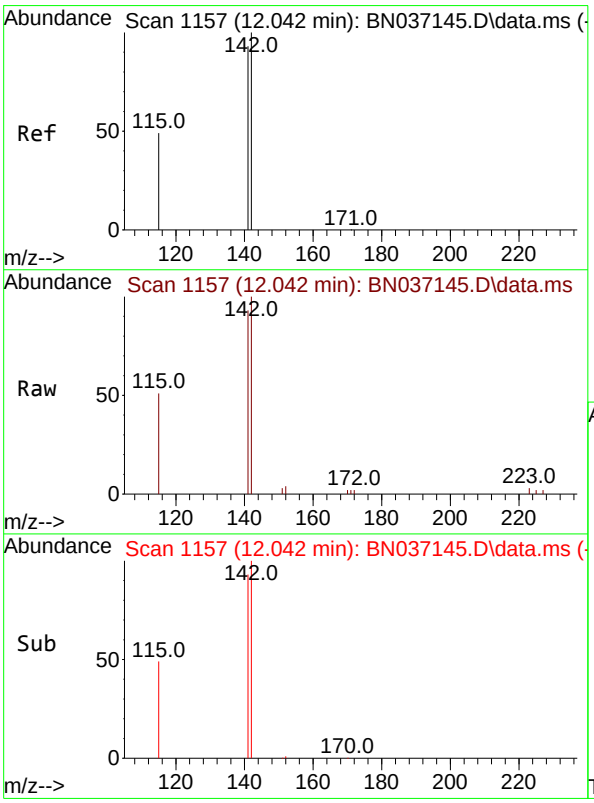
#11
2-Methylnaphthalene-d10
Concen: 0.404 ng
RT: 11.971 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2936

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.1	25.7

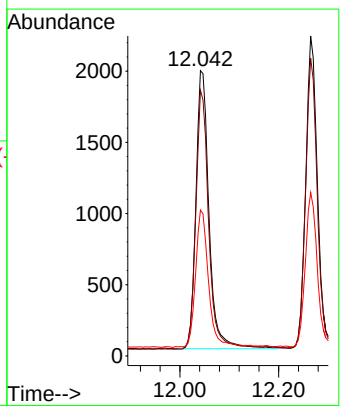


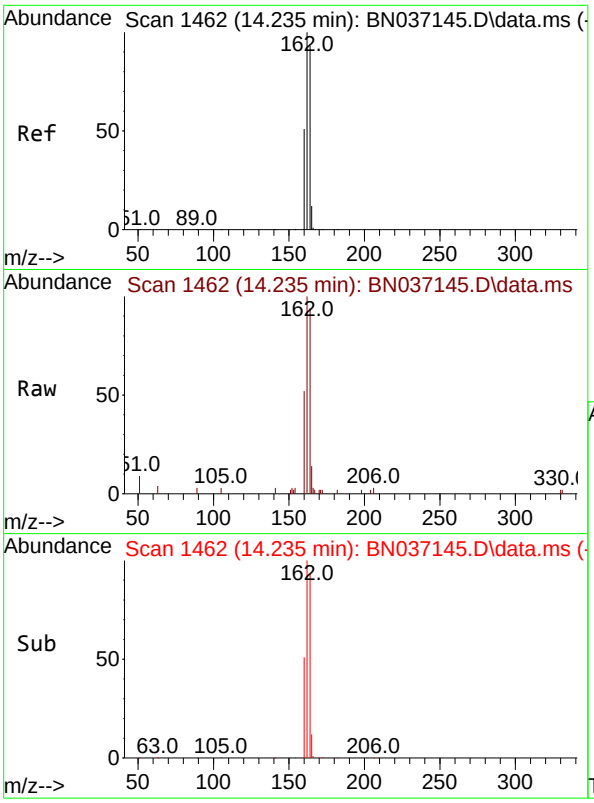


#12
2-Methylnaphthalene
Concen: 0.374 ng
RT: 12.042 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:142 Resp: 3609

Ion	Ratio	Lower	Upper
142	100		
141	93.2	74.6	111.8
115	51.2	41.0	61.4



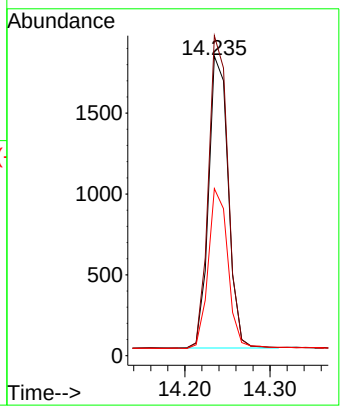


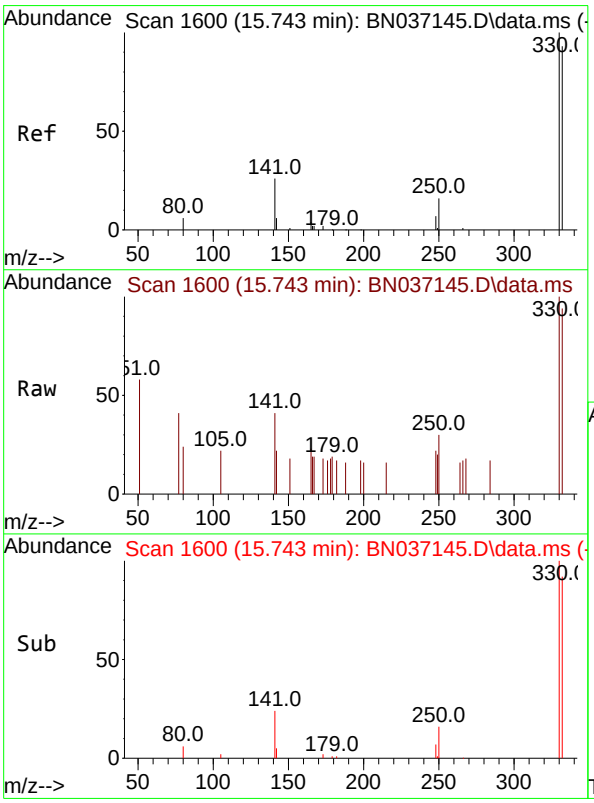
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 2886

Ion	Ratio	Lower	Upper
164	100		
162	106.9	85.5	128.3
160	55.8	44.6	67.0

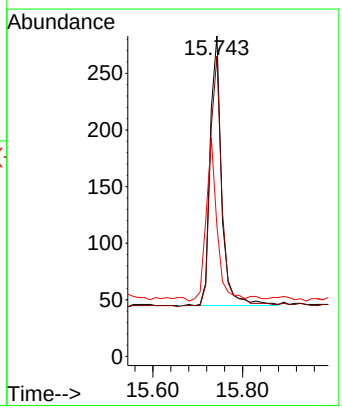


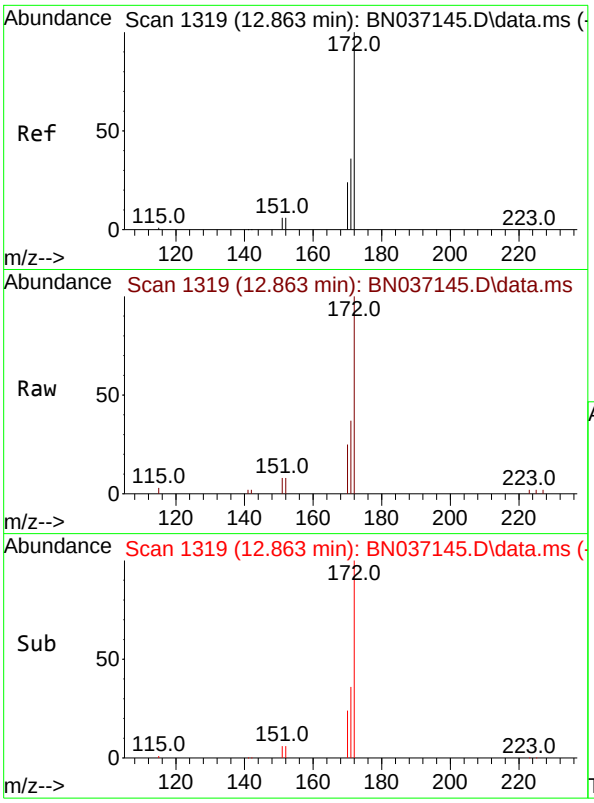


#14
2,4,6-Tribromophenol
Concen: 0.362 ng
RT: 15.743 min Scan# 1600
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:330 Resp: 421

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.1	115.7
141	58.0	46.4	69.6



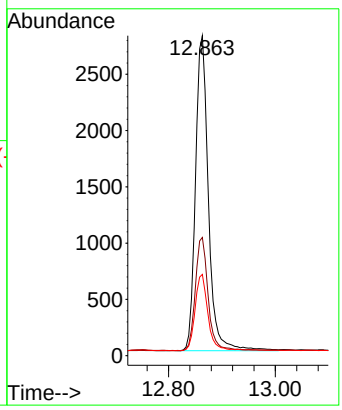


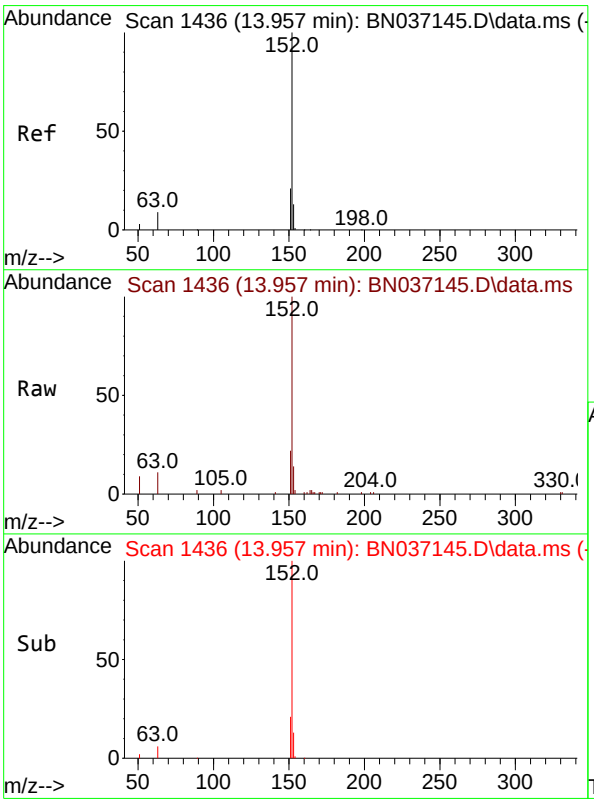
#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.863 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 4694

Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.6	44.4
170	25.4	20.3	30.5

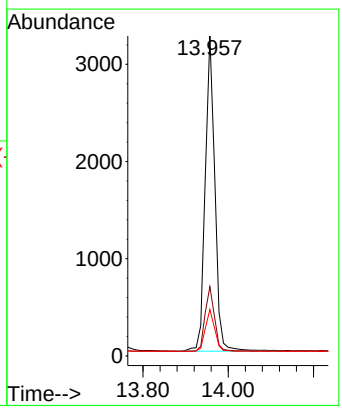


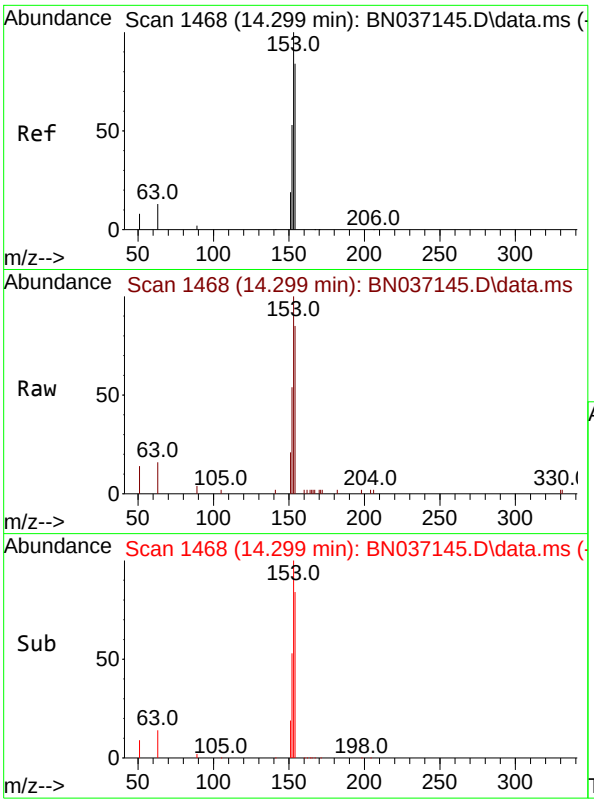


#16
Acenaphthylene
Concen: 0.361 ng
RT: 13.957 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:152 Resp: 5103

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.2	10.6	15.8



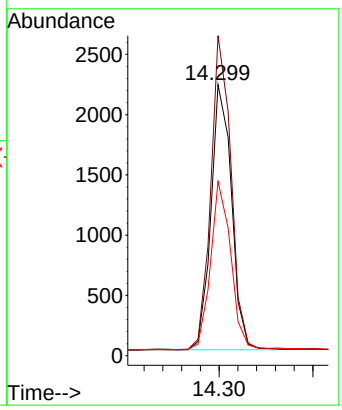


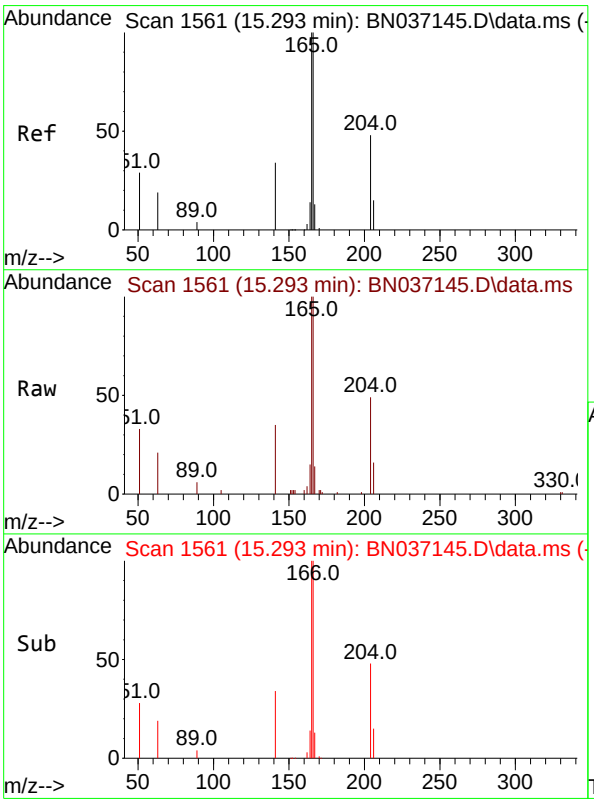
#17
Acenaphthene
Concen: 0.364 ng
RT: 14.299 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 3344

Ion	Ratio	Lower	Upper
154	100		
153	117.3	93.8	140.8
152	63.1	50.5	75.7

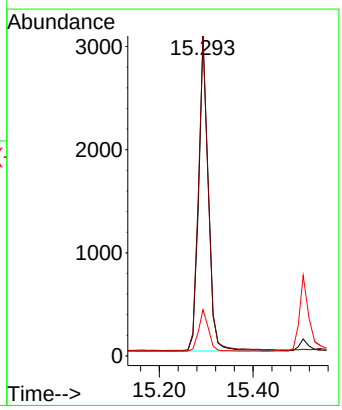


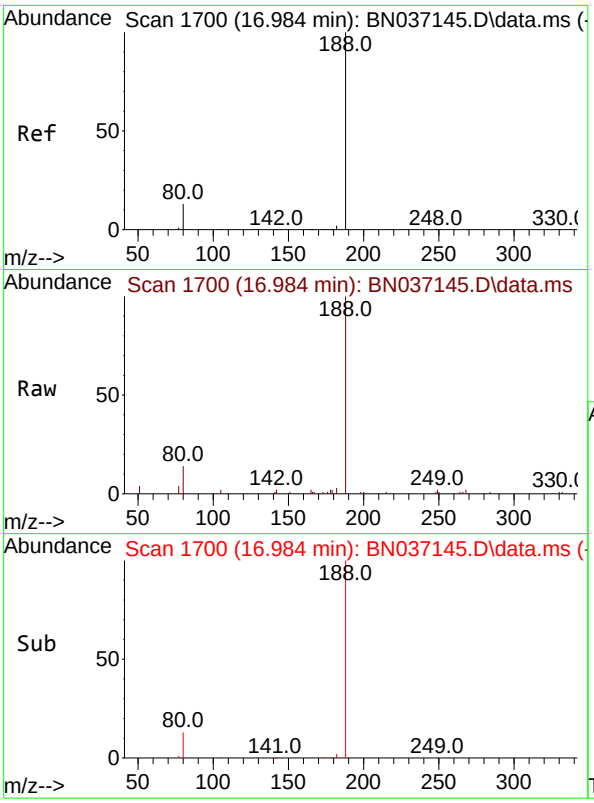


#18
Fluorene
Concen: 0.363 ng
RT: 15.293 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:166 Resp: 4380

Ion	Ratio	Lower	Upper
166	100		
165	101.4	81.1	121.7
167	13.5	10.8	16.2



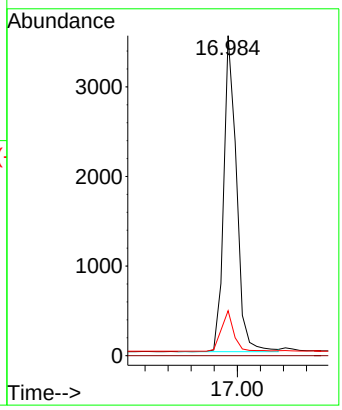


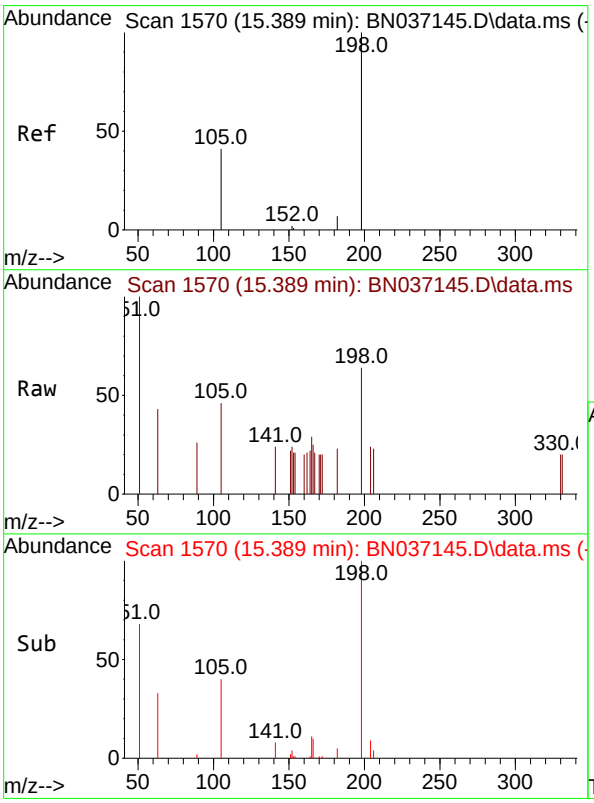
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 5446

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	11.3	16.9

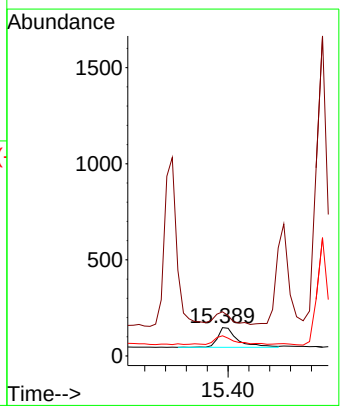


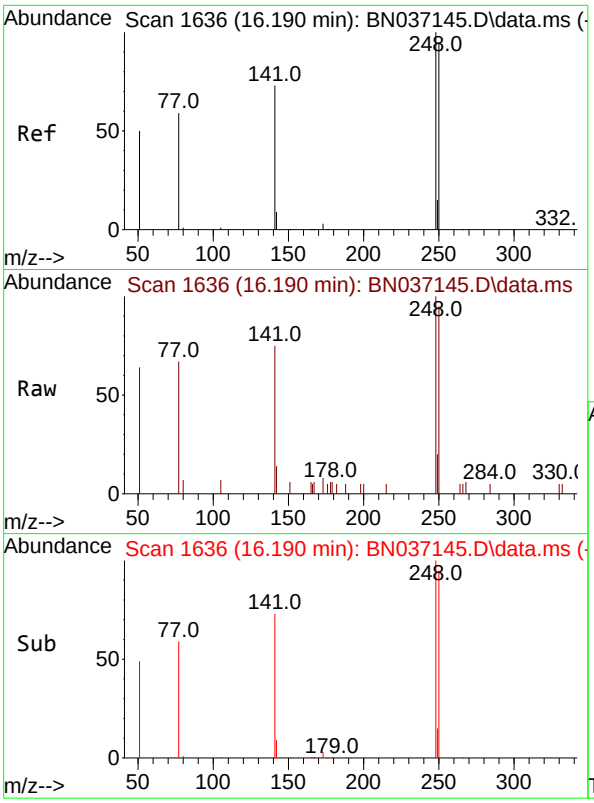


#20
4,6-Dinitro-2-methylphenol
Concen: 0.445 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:198 Resp: 272

Ion	Ratio	Lower	Upper
198	100		
51	156.5	125.2	187.8
105	71.4	57.1	85.7



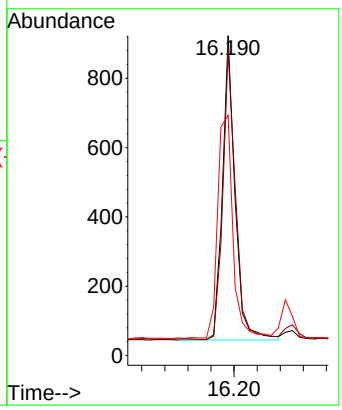


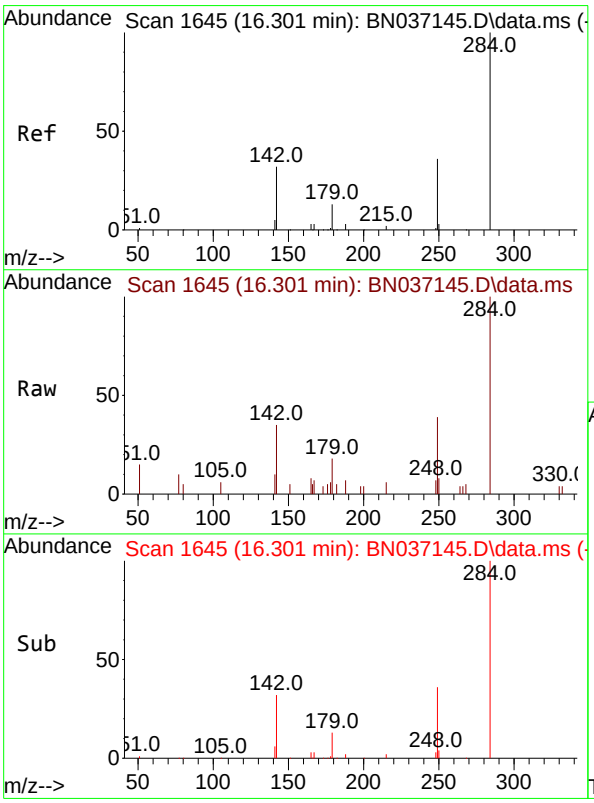
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.190 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1329

Ion	Ratio	Lower	Upper
248	100		
250	95.1	76.1	114.1
141	75.1	60.1	90.1

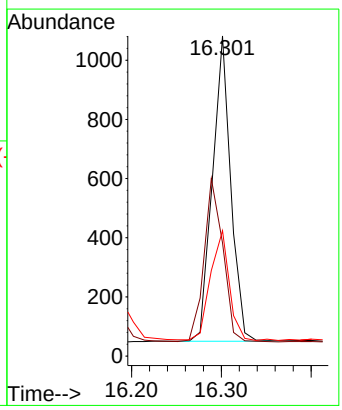


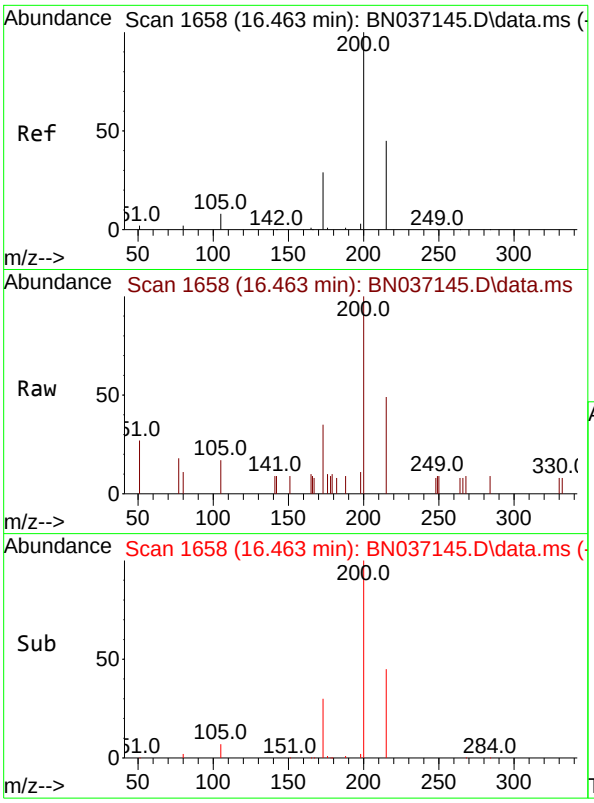


#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.301 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:284 Resp: 1463

Ion	Ratio	Lower	Upper
284	100		
142	55.0	44.0	66.0
249	37.1	29.7	44.5



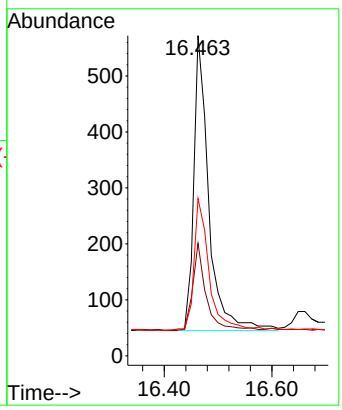


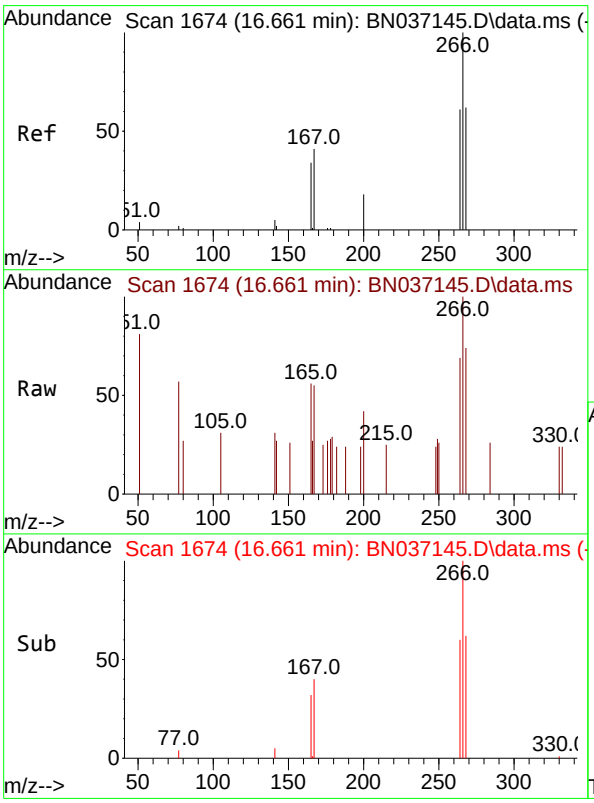
#23
Atrazine
Concen: 0.345 ng
RT: 16.463 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1018

Ion	Ratio	Lower	Upper
200	100		
173	35.1	28.1	42.1
215	49.1	39.3	58.9

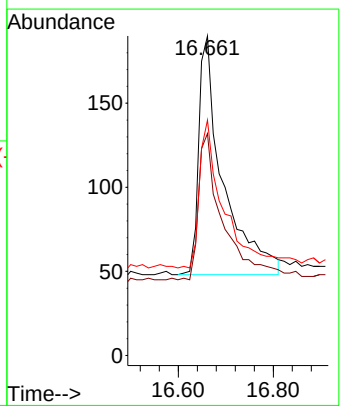


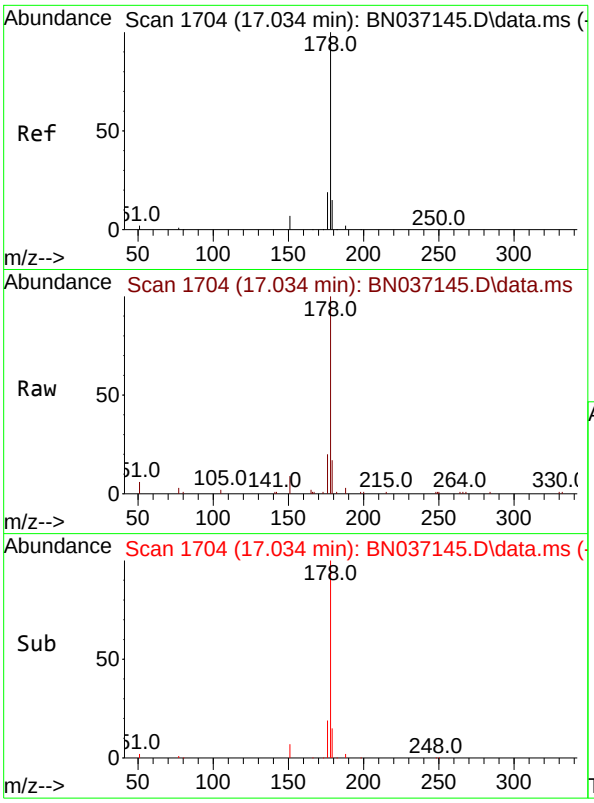


#24
Pentachlorophenol
Concen: 0.433 ng
RT: 16.661 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:266 Resp: 502

Ion	Ratio	Lower	Upper
266	100		
264	61.8	49.3	73.9
268	61.4	49.0	73.4



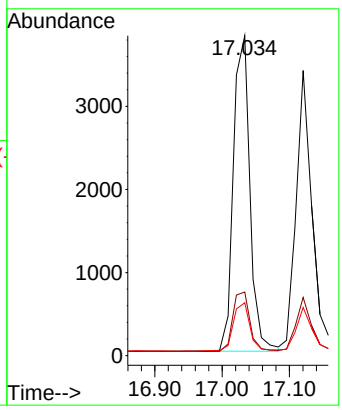


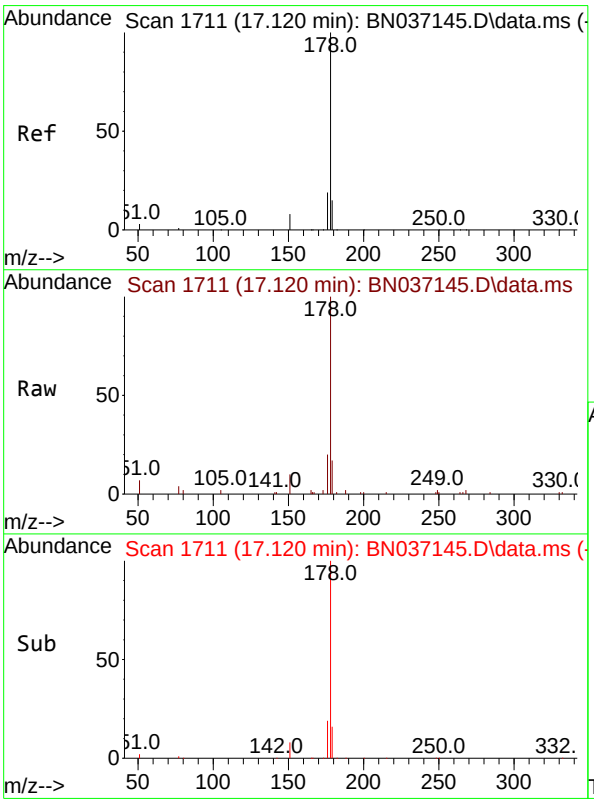
#25
Phenanthrene
Concen: 0.368 ng
RT: 17.034 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 6496

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.4	12.3	18.5

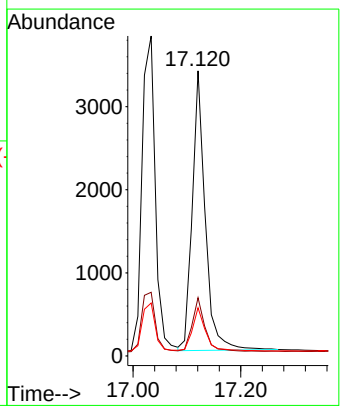


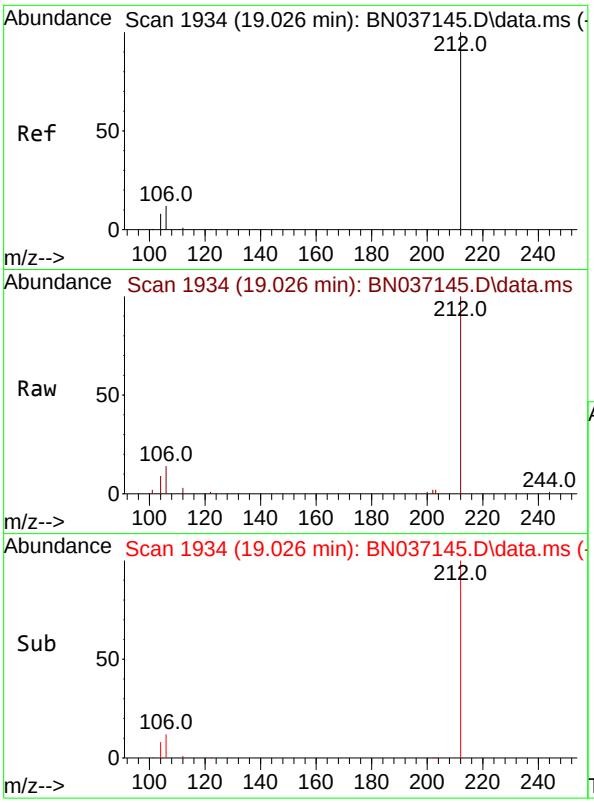


#26
Anthracene
Concen: 0.351 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:178 Resp: 5644

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	16.1	12.9	19.3



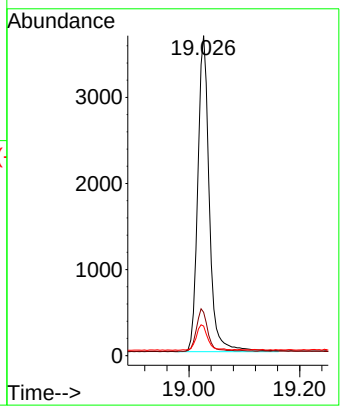


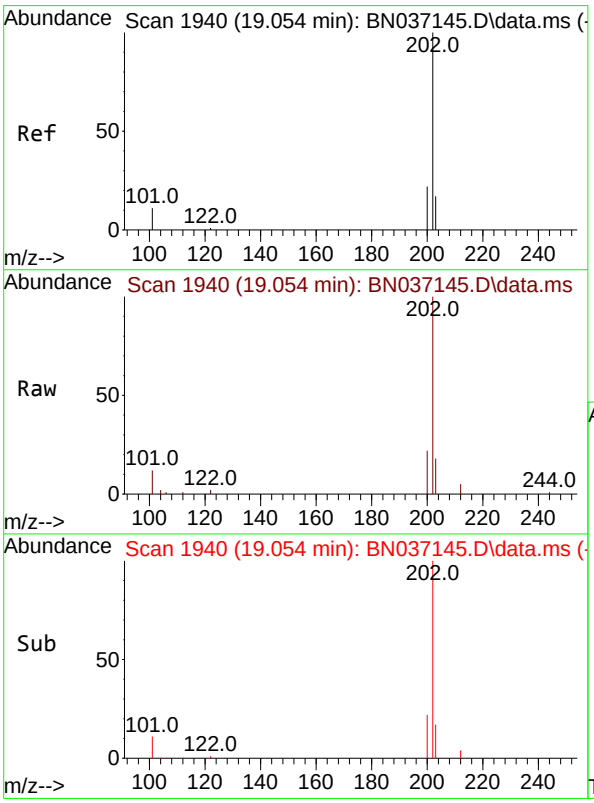
#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.026 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 5309

Ion	Ratio	Lower	Upper
212	100		
106	13.2	10.6	15.8
104	8.2	6.6	9.8

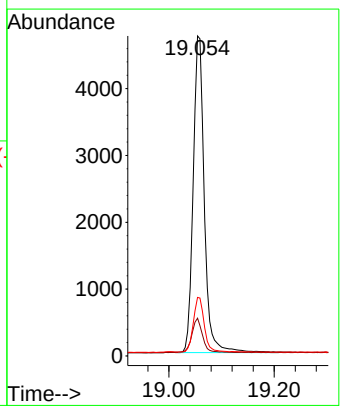


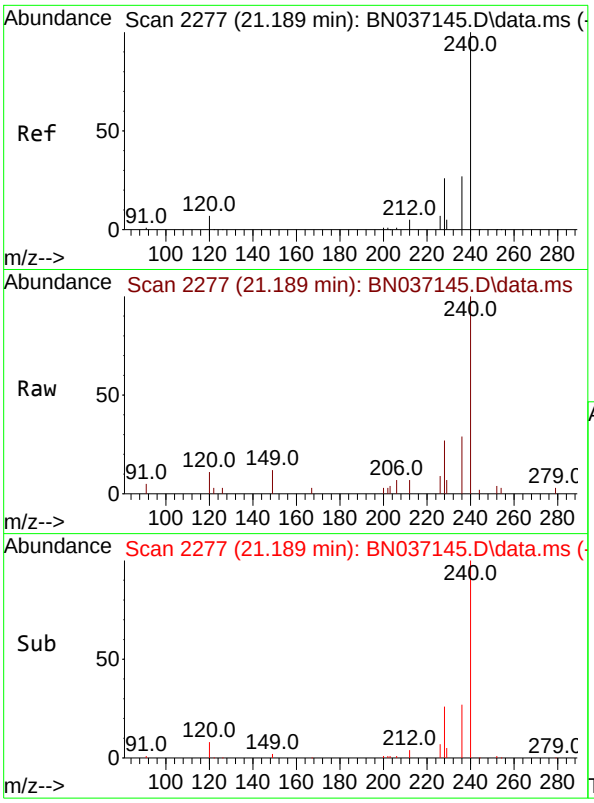


#28
Fluoranthene
Concen: 0.357 ng
RT: 19.054 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:202 Resp: 6952

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.7	13.1
203	16.9	13.5	20.3



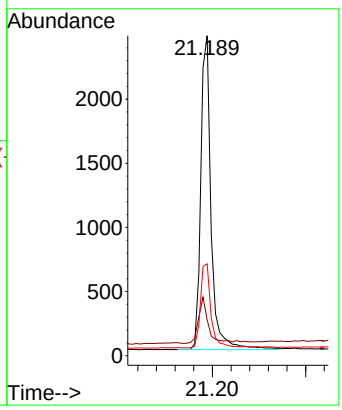


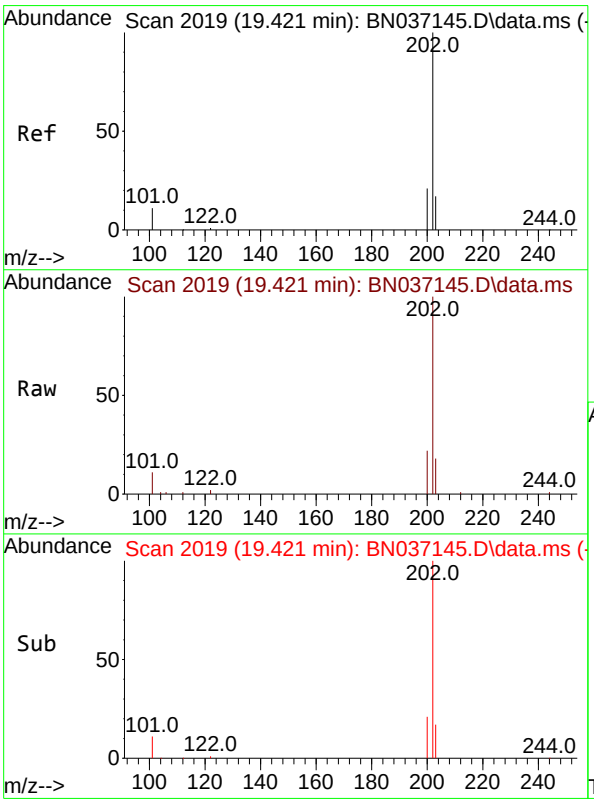
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 3769

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.0	13.4
236	28.7	23.0	34.4

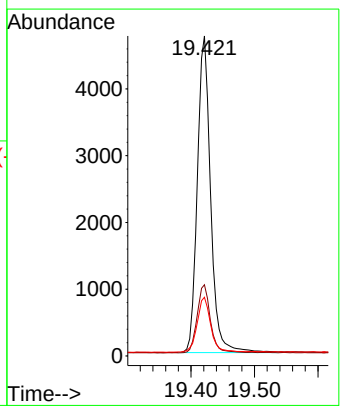


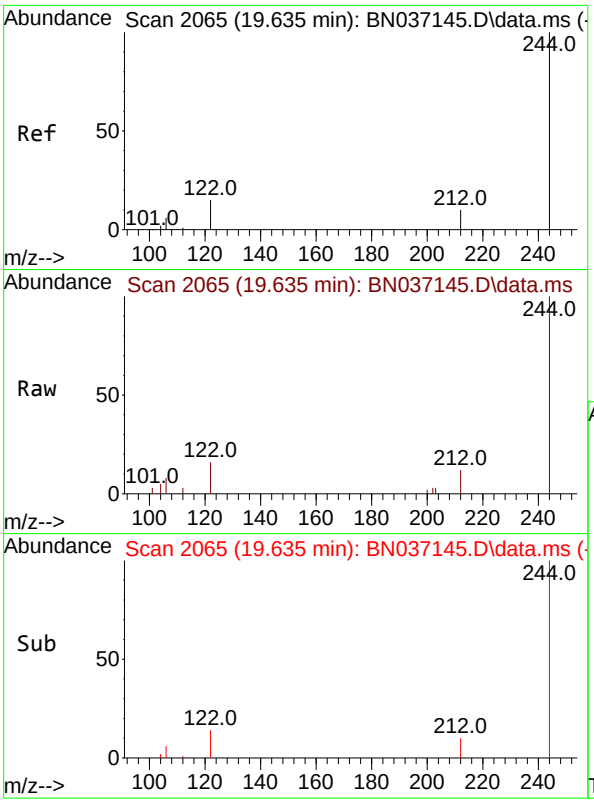


#30
Pyrene
Concen: 0.374 ng
RT: 19.421 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:202 Resp: 6885

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.6
203	17.8	14.2	21.4



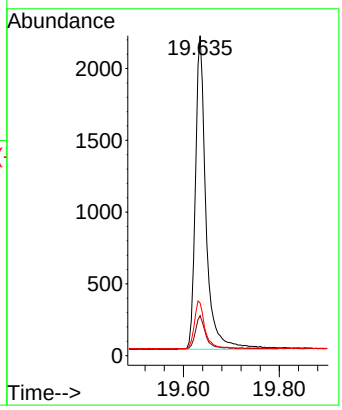


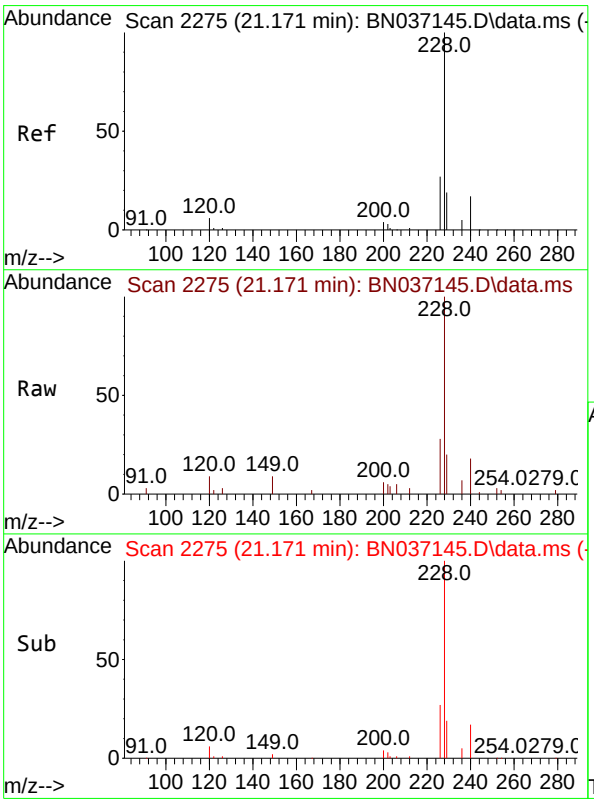
#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.635 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 3376

Ion	Ratio	Lower	Upper
244	100		
212	12.5	10.0	15.0
122	16.5	13.2	19.8

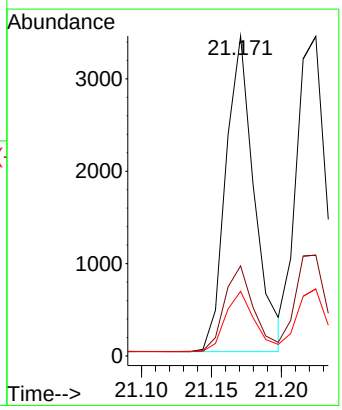


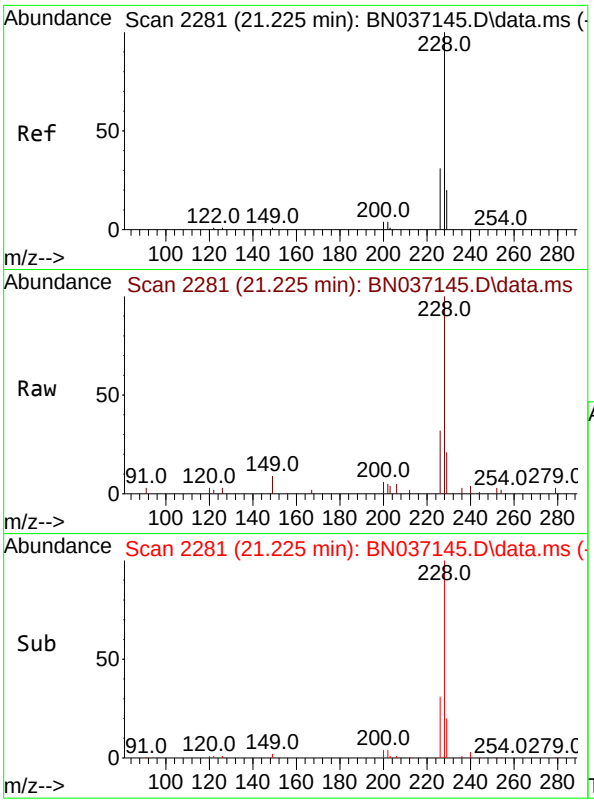


#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 21.171 min Scan# 2275
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:228 Resp: 4866

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	20.2	16.2	24.2



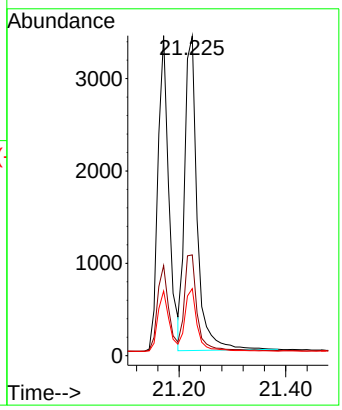


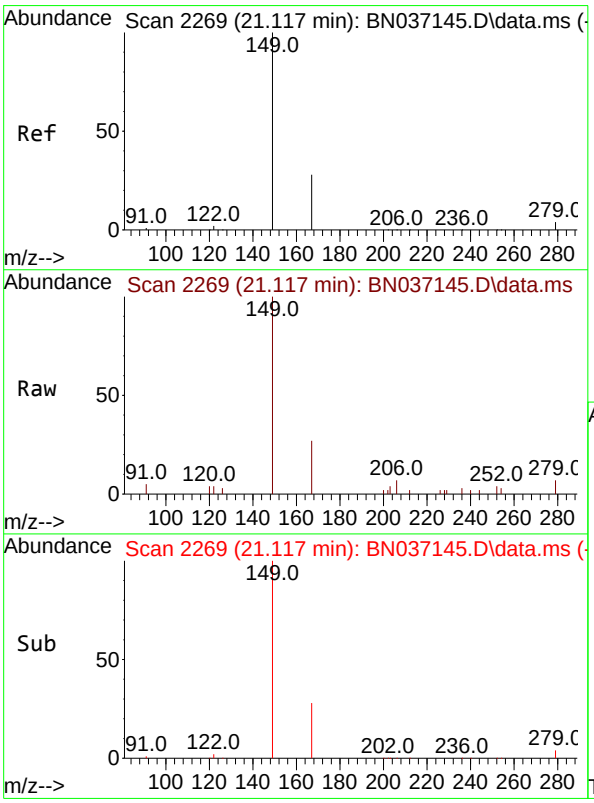
#33
Chrysene
Concen: 0.366 ng
RT: 21.225 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 5553

Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.2	37.8
229	21.0	16.8	25.2

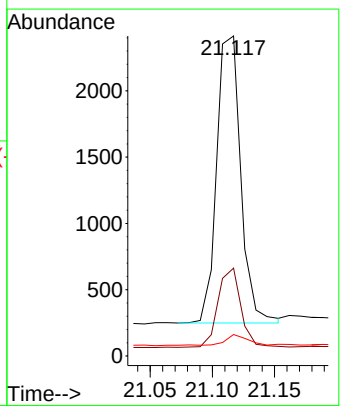


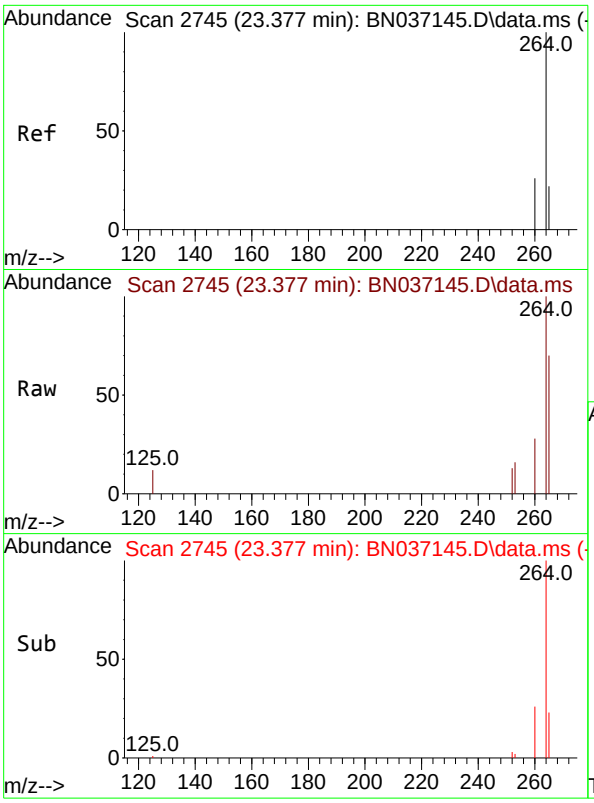


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.339 ng
RT: 21.117 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:149 Resp: 2918

Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.0	31.4
279	3.6	2.9	4.3



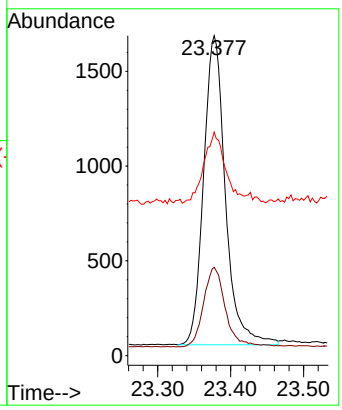


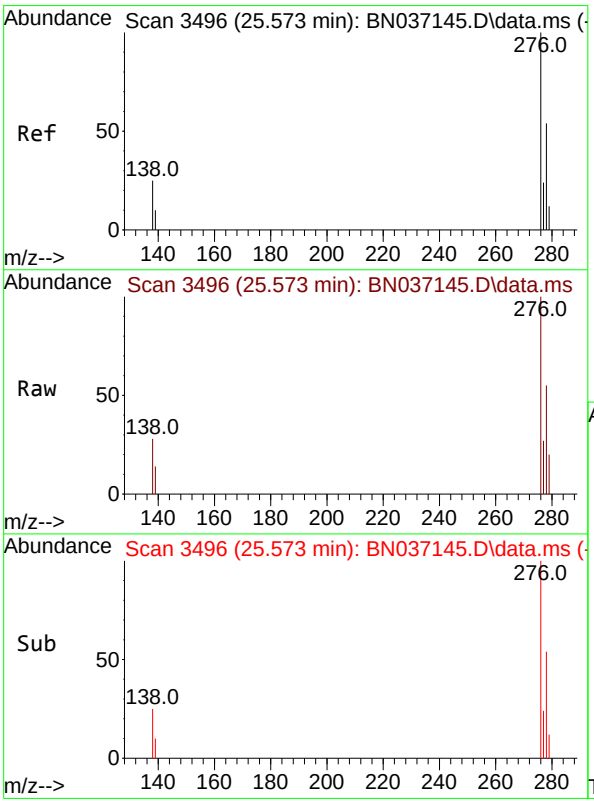
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.377 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 3386

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.1	33.1
265	69.8	55.8	83.8

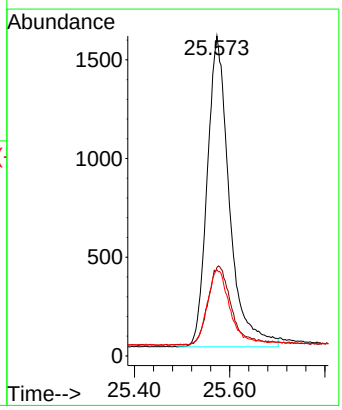


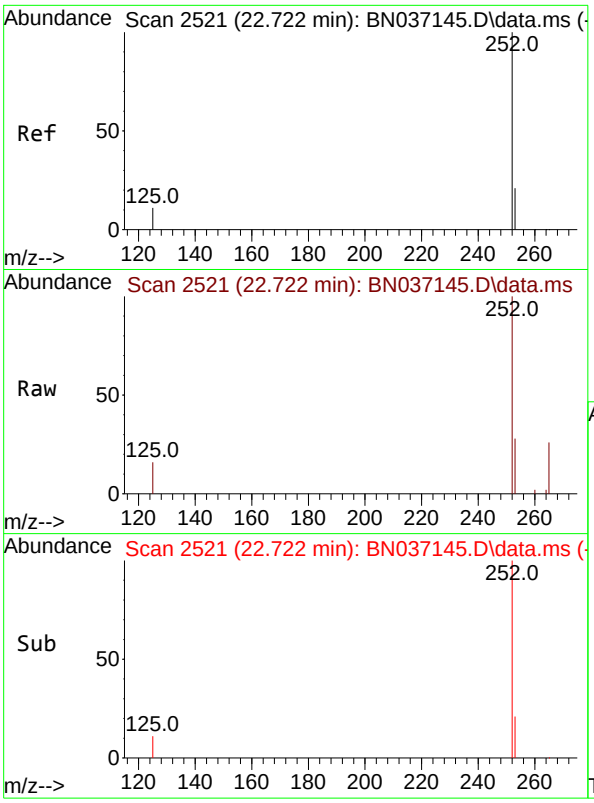


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.573 min Scan# 3496
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:276 Resp: 5083

Ion	Ratio	Lower	Upper
276	100		
138	26.3	21.0	31.6
277	24.3	19.4	29.2



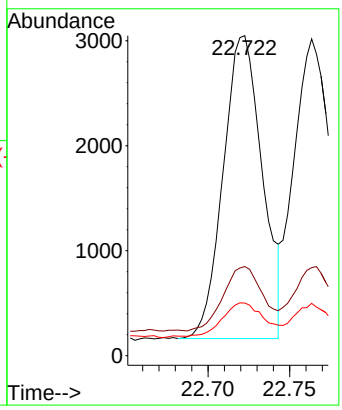


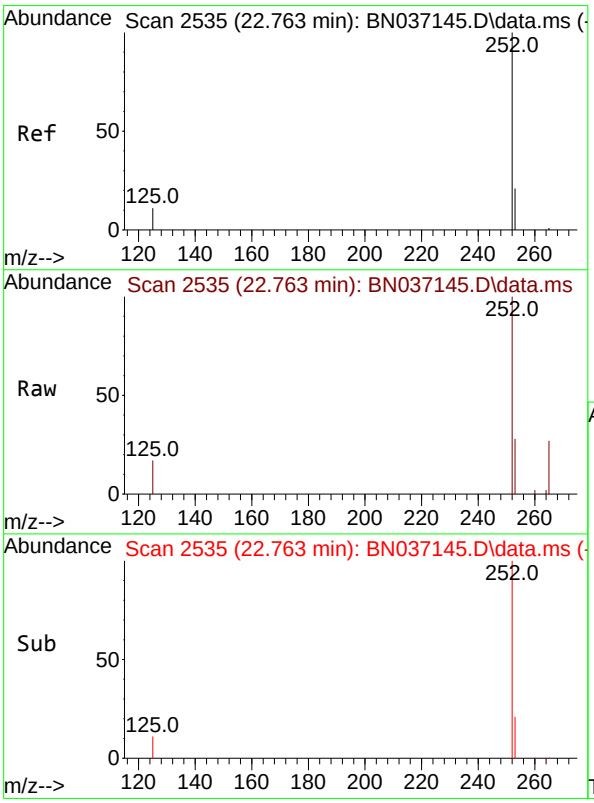
#37
Benzo(b)fluoranthene
Concen: 0.352 ng
RT: 22.722 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 4811

Ion	Ratio	Lower	Upper
252	100		
253	27.9	22.3	33.5
125	16.5	13.2	19.8

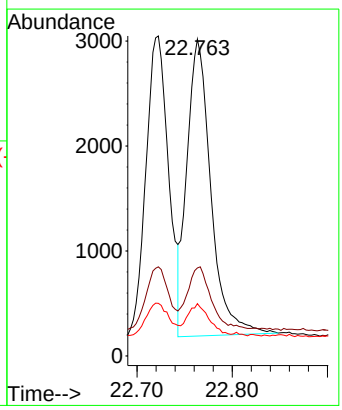


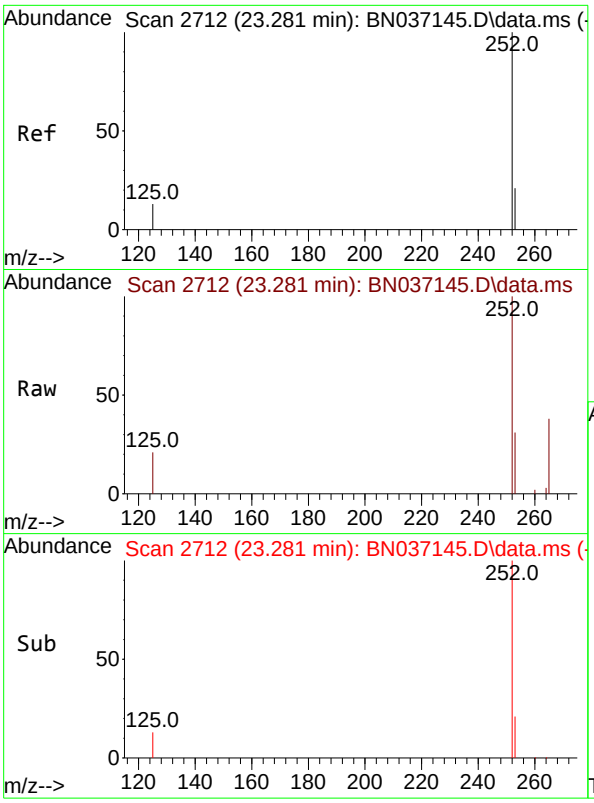


#38
Benzo(k)fluoranthene
Concen: 0.354 ng
RT: 22.763 min Scan# 2535
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:252 Resp: 4946

Ion	Ratio	Lower	Upper
252	100		
253	27.8	22.2	33.4
125	16.5	13.2	19.8



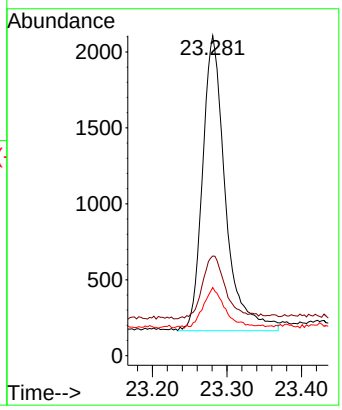


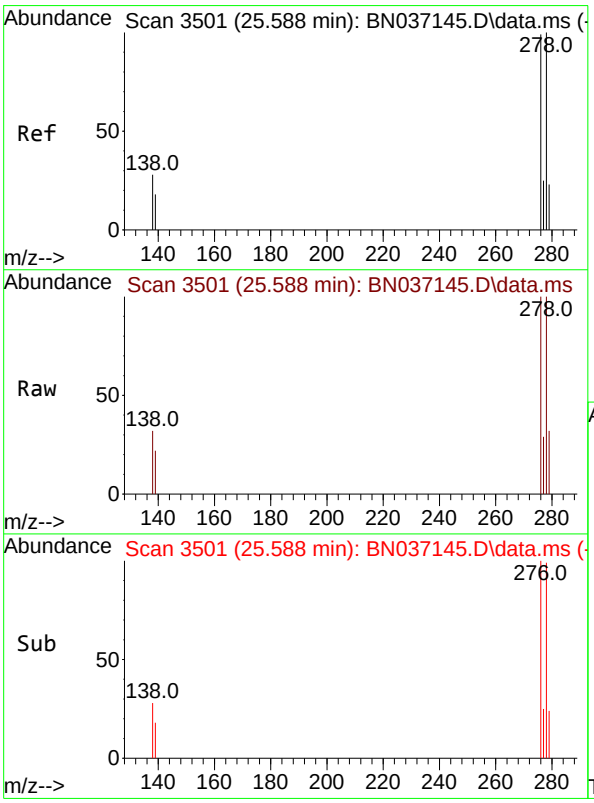
#39
Benzo(a)pyrene
Concen: 0.360 ng
RT: 23.281 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 4127

Ion	Ratio	Lower	Upper
252	100		
253	31.2	25.0	37.4
125	21.3	17.0	25.6

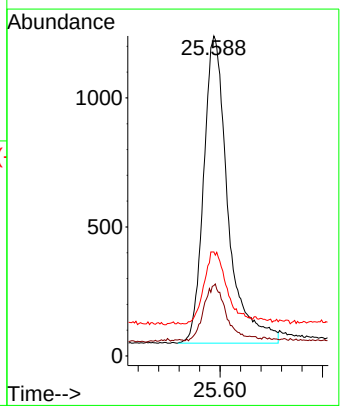


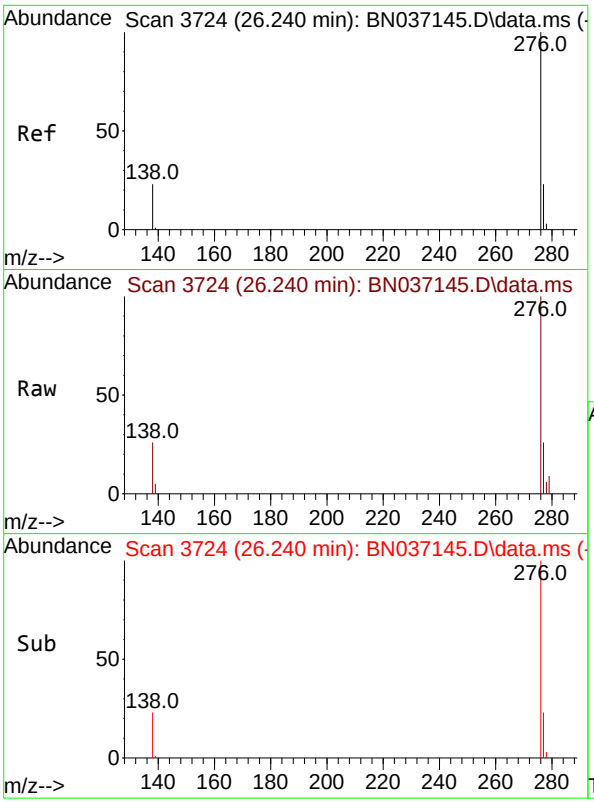


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.588 min Scan# 3501
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Tgt Ion:278 Resp: 3928

Ion	Ratio	Lower	Upper
278	100		
139	22.0	17.6	26.4
279	32.5	26.0	39.0



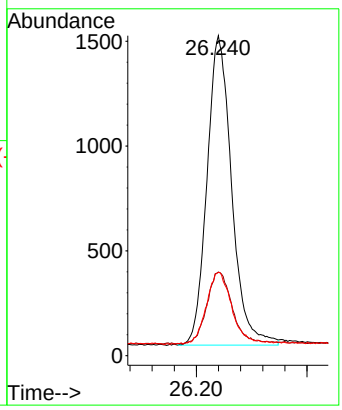


#41
Benzo(g,h,i)perylene
Concen: 0.383 ng
RT: 26.240 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037145.D
Acq: 03 Jun 2025 12:51

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 4576

Ion	Ratio	Lower	Upper
276	100		
277	26.1	20.9	31.3
138	26.0	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037146.D
Acq On : 03 Jun 2025 13:26
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 04 01:42:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.597	152	1776	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	4485	0.400	ng		0.00
13) Acenaphthene-d10	14.234	164	2508	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	4816	0.400	ng		0.00
29) Chrysene-d12	21.189	240	3381	0.400	ng		0.00
35) Perylene-d12	23.380	264	2909	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.192	112	3356	0.764	ng		0.00
5) Phenol-d6	6.773	99	4000	0.751	ng		0.00
8) Nitrobenzene-d5	8.739	82	3647	0.771	ng		0.00
11) 2-Methylnaphthalene-d10	11.971	152	4809	0.770	ng		0.00
14) 2,4,6-Tribromophenol	15.743	330	789	0.781	ng		0.00
15) 2-Fluorobiphenyl	12.863	172	8296	0.776	ng		0.00
27) Fluoranthene-d10	19.026	212	9209	0.753	ng		0.00
31) Terphenyl-d14	19.635	244	6364	0.800	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.119	88	1799	0.760	ng		97
3) n-Nitrosodimethylamine	3.437	42	3791	0.798	ng	#	97
6) bis(2-Chloroethyl)ether	7.026	93	3867	0.761	ng		98
9) Naphthalene	10.415	128	9964	0.770	ng		99
10) Hexachlorobutadiene	10.714	225	2212	0.785	ng	#	99
12) 2-Methylnaphthalene	12.041	142	6445	0.777	ng		99
16) Acenaphthylene	13.957	152	9385	0.763	ng		99
17) Acenaphthene	14.299	154	6080	0.762	ng		100
18) Fluorene	15.293	166	8080	0.770	ng		99
20) 4,6-Dinitro-2-methylph...	15.389	198	643	0.730	ng	#	56
21) 4-Bromophenyl-phenylether	16.189	248	2446	0.775	ng		97
22) Hexachlorobenzene	16.301	284	2690	0.790	ng		98
23) Atrazine	16.462	200	2011	0.772	ng		92
24) Pentachlorophenol	16.649	266	1033	0.722	ng		96
25) Phenanthrene	17.033	178	12021	0.770	ng		100
26) Anthracene	17.120	178	11005	0.773	ng		99
28) Fluoranthene	19.054	202	13144	0.763	ng		100
30) Pyrene	19.421	202	13035	0.790	ng		99
32) Benzo(a)anthracene	21.171	228	9494	0.776	ng		100
33) Chrysene	21.224	228	10700	0.785	ng		98
34) Bis(2-ethylhexyl)phtha...	21.117	149	5801	0.751	ng		100
36) Indeno(1,2,3-cd)pyrene	25.573	276	8881	0.767	ng		99
37) Benzo(b)fluoranthene	22.722	252	9165	0.780	ng		95
38) Benzo(k)fluoranthene	22.763	252	9379	0.782	ng		93
39) Benzo(a)pyrene	23.281	252	7528	0.765	ng	#	91
40) Dibenzo(a,h)anthracene	25.588	278	6960	0.780	ng		93
41) Benzo(g,h,i)perylene	26.240	276	7980	0.778	ng		99

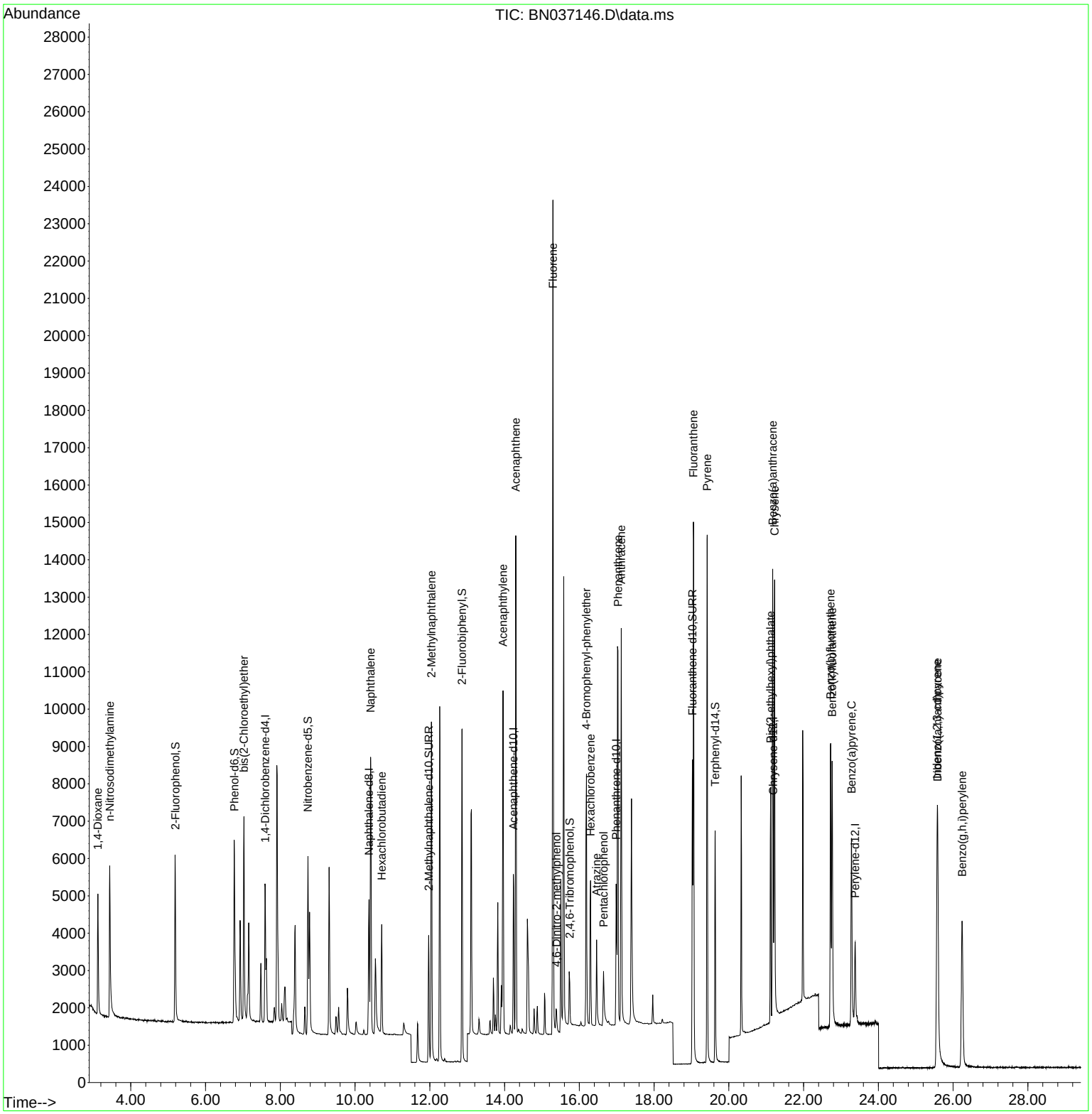
(#) = qualifier out of range (m) = manual integration (+) = signals summed

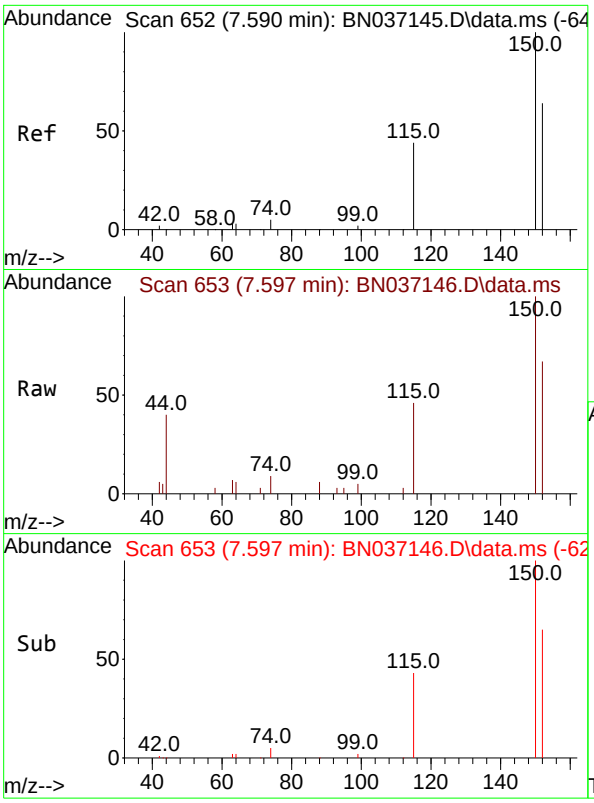
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037146.D
Acq On : 03 Jun 2025 13:26
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 04 01:42:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration



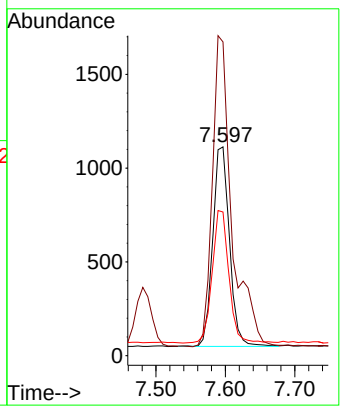


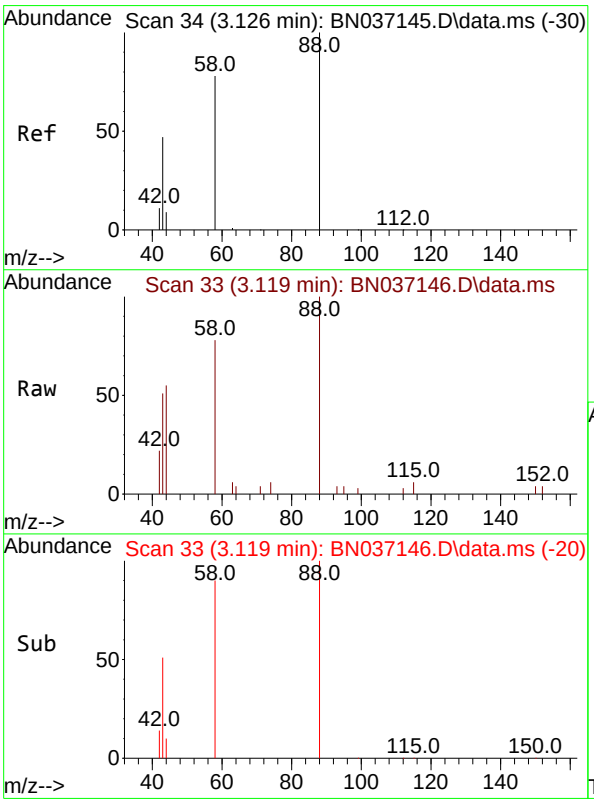
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.597 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 1776

Ion	Ratio	Lower	Upper
152	100		
150	150.3	123.2	184.8
115	68.8	56.6	85.0

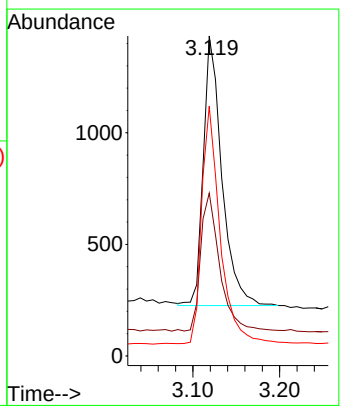


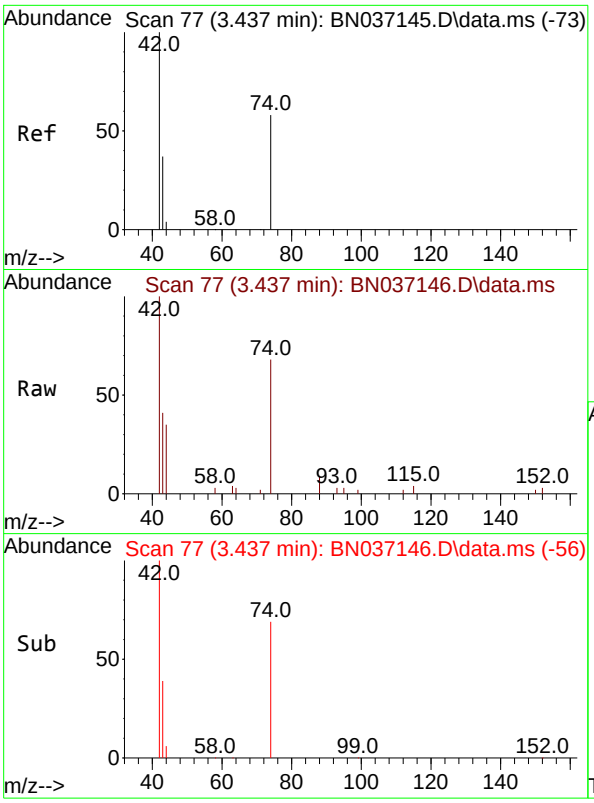


#2
1,4-Dioxane
Concen: 0.760 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion: 88 Resp: 1799

Ion	Ratio	Lower	Upper
88	100		
43	52.9	43.5	65.3
58	87.4	67.7	101.5



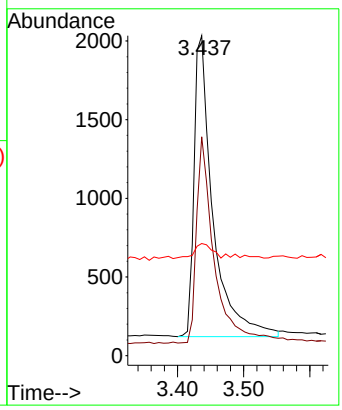


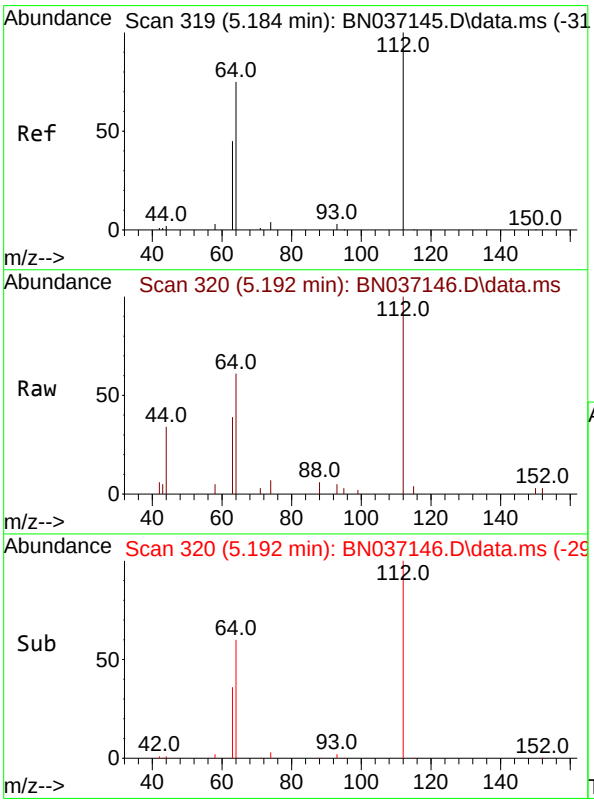
#3
n-Nitrosodimethylamine
Concen: 0.798 ng
RT: 3.437 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 3791

Ion	Ratio	Lower	Upper
42	100		
74	64.4	53.0	79.4
44	4.8	5.9	8.9#

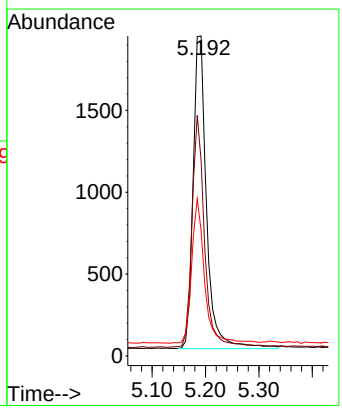


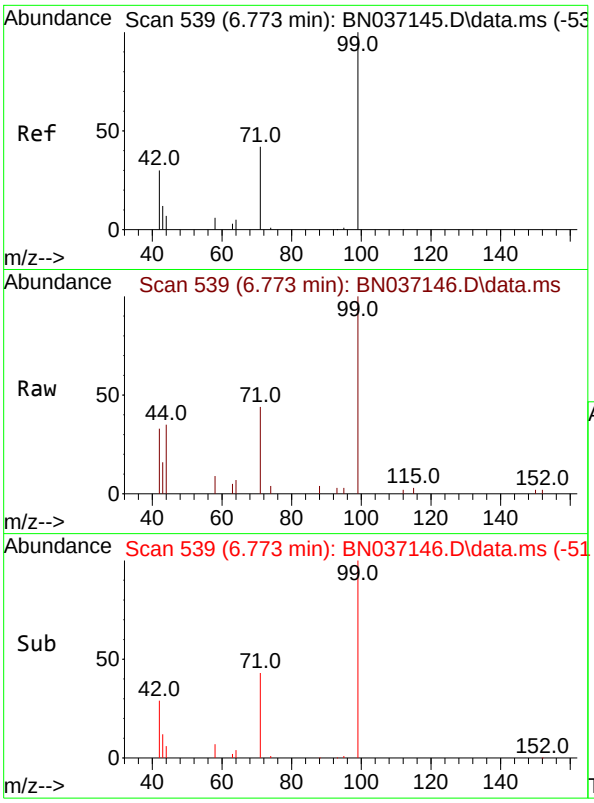


#4
2-Fluorophenol
Concen: 0.764 ng
RT: 5.192 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:112 Resp: 3356

Ion	Ratio	Lower	Upper
112	100		
64	69.7	56.3	84.5
63	44.0	36.2	54.4



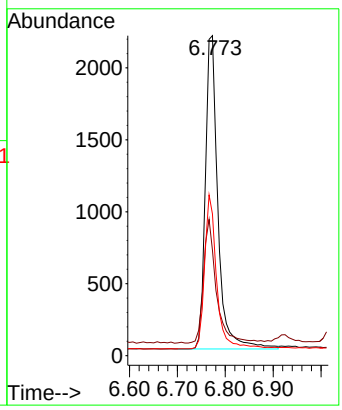


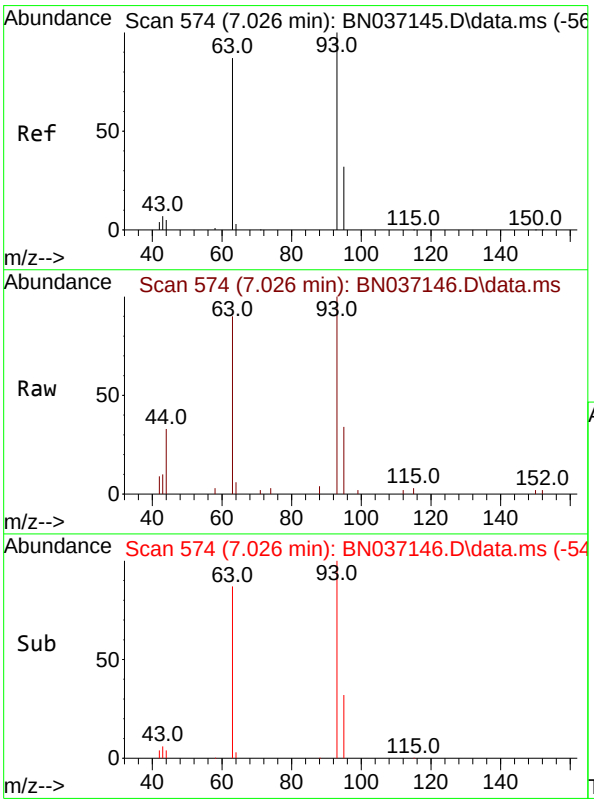
#5
Phenol-d6
Concen: 0.751 ng
RT: 6.773 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 4000

Ion	Ratio	Lower	Upper
99	100		
42	40.1	31.3	46.9
71	47.5	38.2	57.2

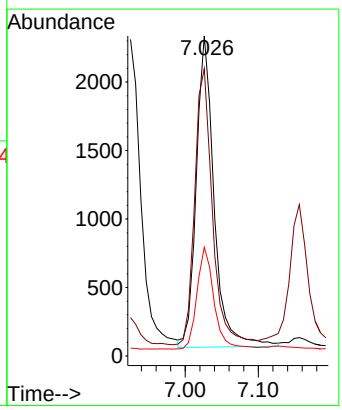


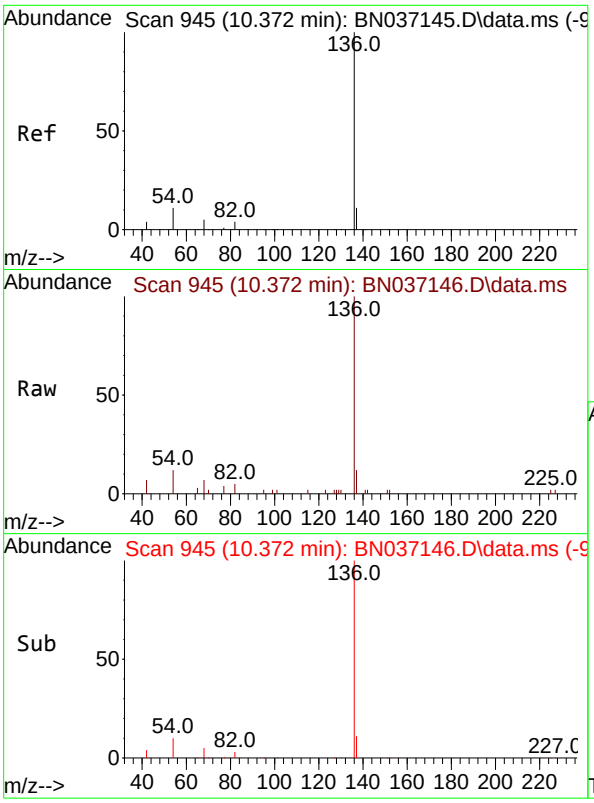


#6
bis(2-Chloroethyl)ether
Concen: 0.761 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion: 93 Resp: 3867

Ion	Ratio	Lower	Upper
93	100		
63	87.7	68.6	103.0
95	31.2	24.3	36.5



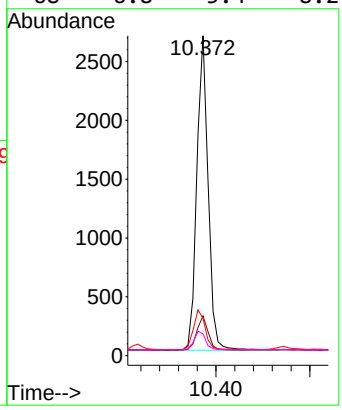


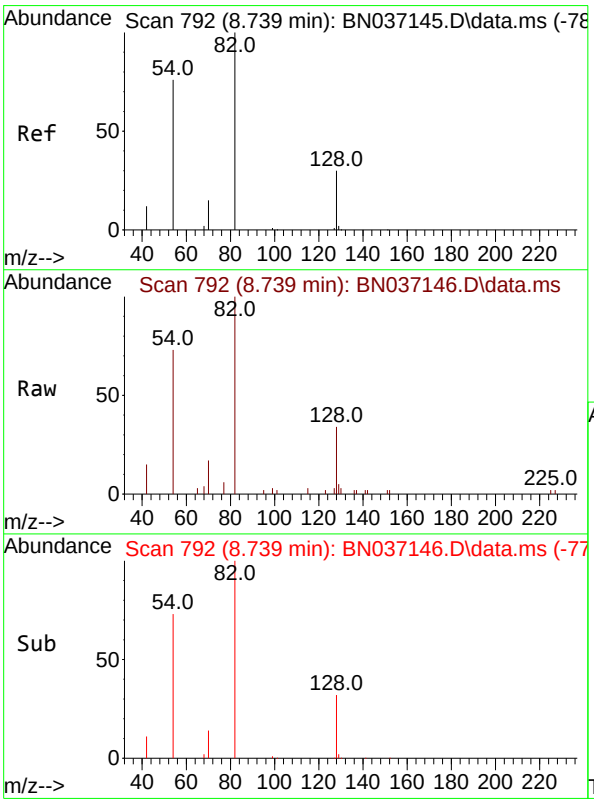
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 4485

Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.7	14.5
54	11.7	9.7	14.5
68	6.8	5.4	8.2

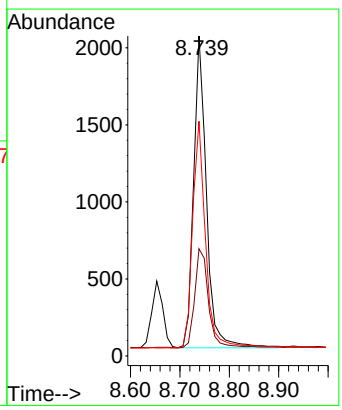


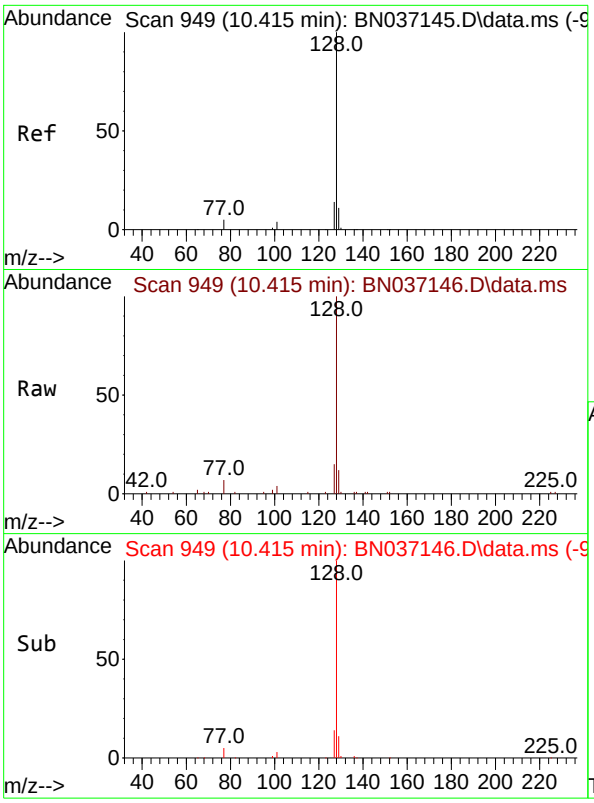


#8
Nitrobenzene-d5
Concen: 0.771 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion: 82 Resp: 3647

Ion	Ratio	Lower	Upper
82	100		
128	33.5	26.9	40.3
54	73.4	61.4	92.2



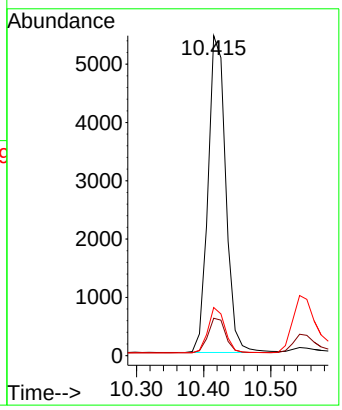


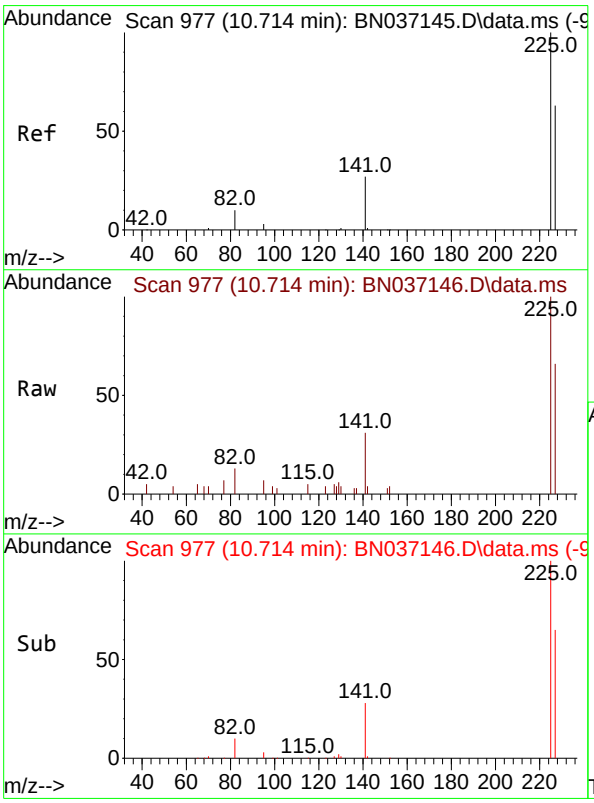
#9
Naphthalene
Concen: 0.770 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 9964

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.8
127	15.1	12.3	18.5

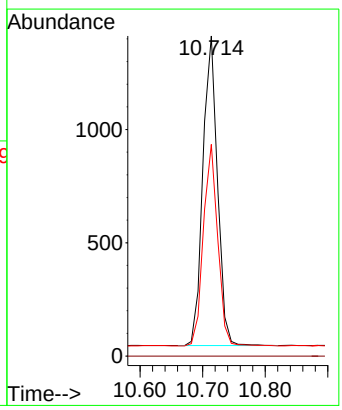


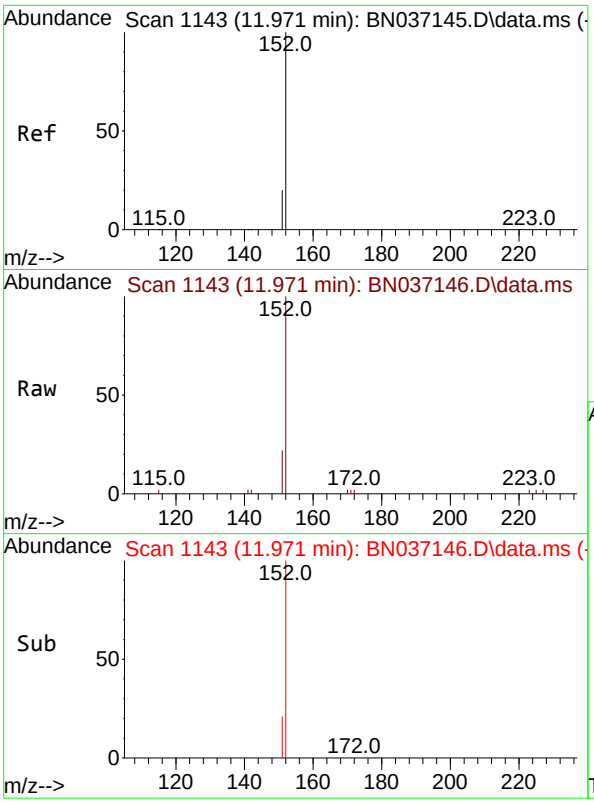


#10
Hexachlorobutadiene
Concen: 0.785 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:225 Resp: 2212

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



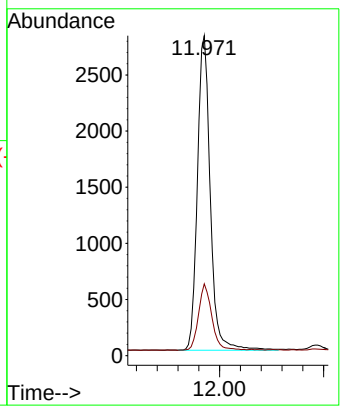


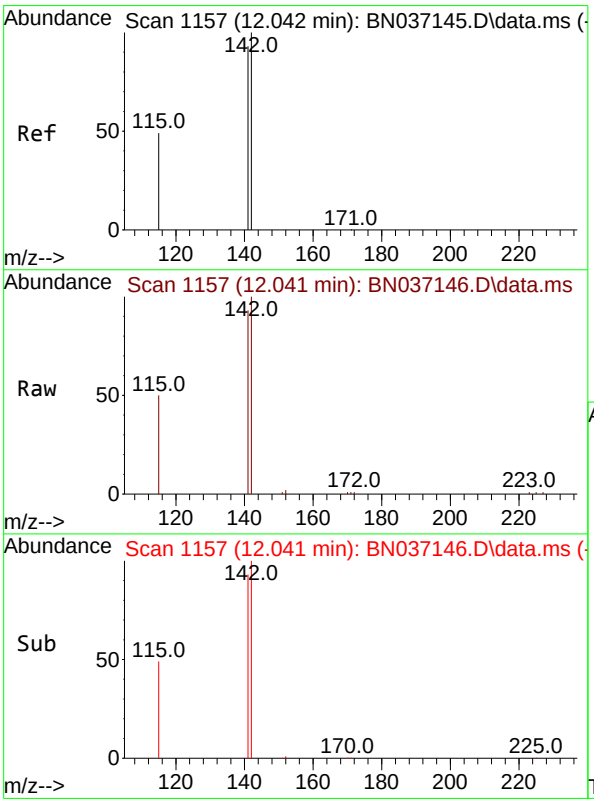
#11
2-Methylnaphthalene-d10
Concen: 0.770 ng
RT: 11.971 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 4809

Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.1	25.7

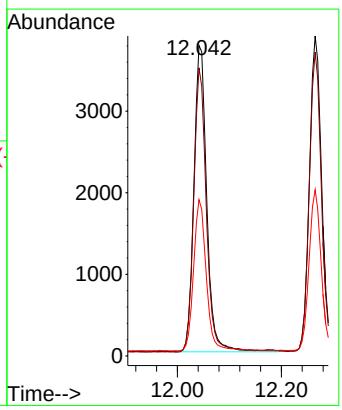


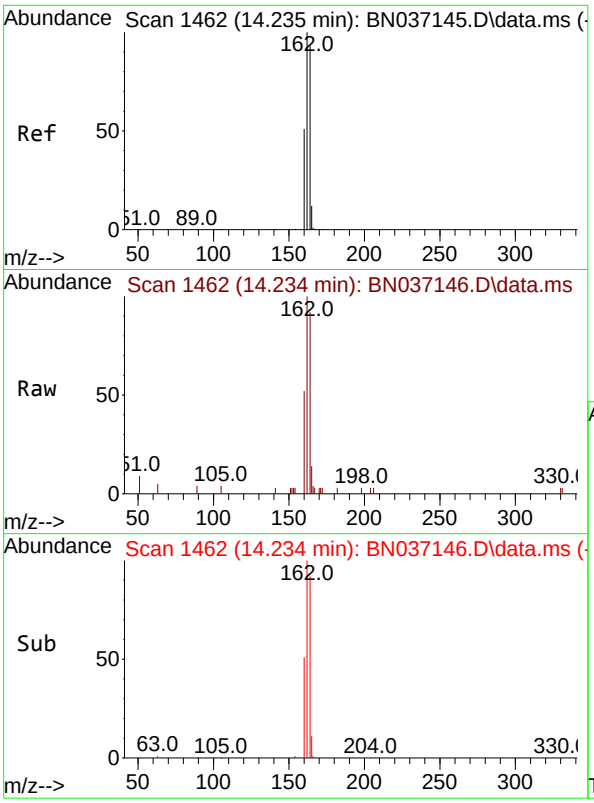


#12
2-Methylnaphthalene
Concen: 0.777 ng
RT: 12.041 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:142 Resp: 6445

Ion	Ratio	Lower	Upper
142	100		
141	92.8	74.6	111.8
115	50.3	41.0	61.4



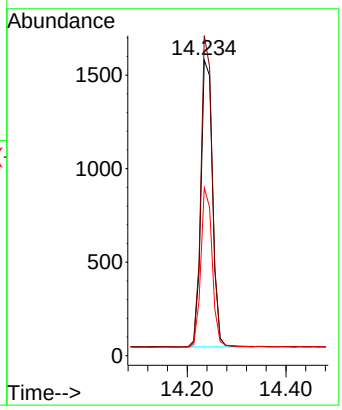


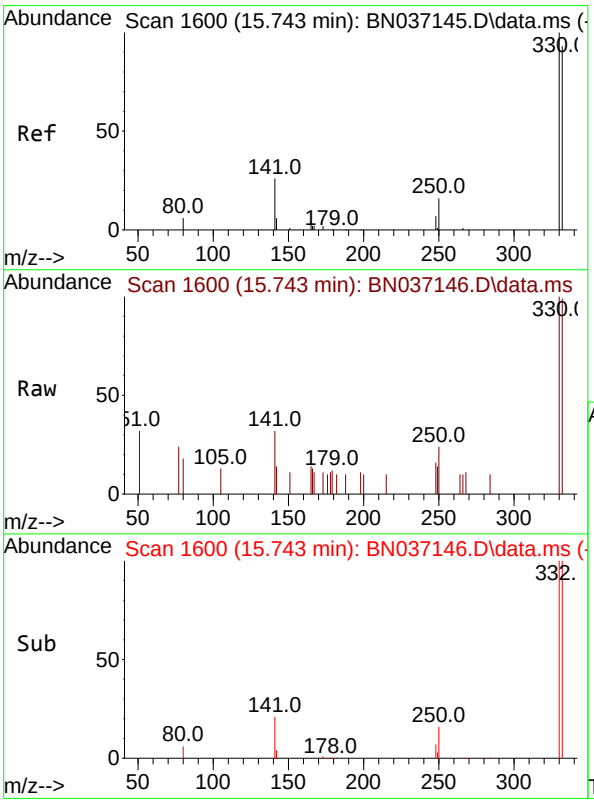
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 2508

Ion	Ratio	Lower	Upper
164	100		
162	108.2	85.5	128.3
160	56.8	44.6	67.0

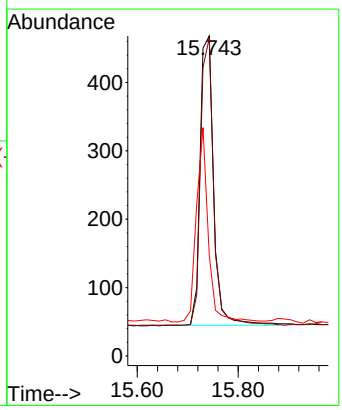


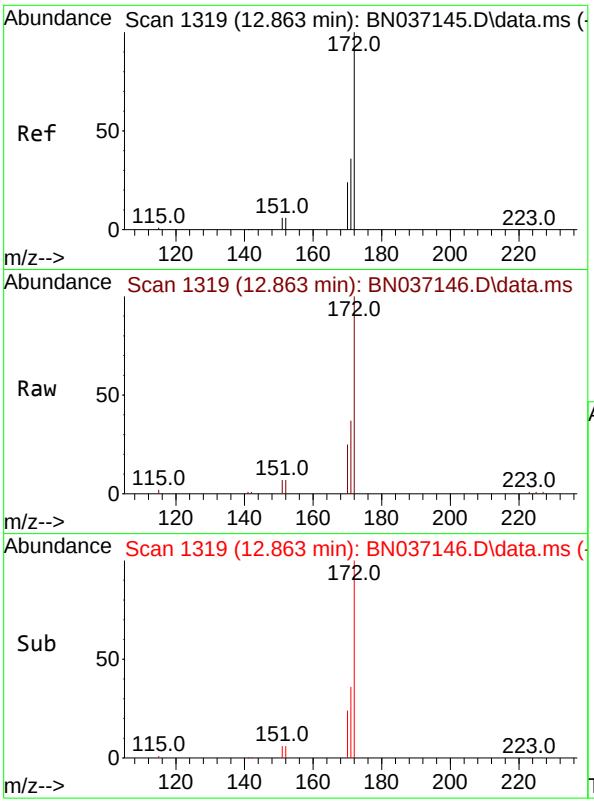


#14
2,4,6-Tribromophenol
Concen: 0.781 ng
RT: 15.743 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:330 Resp: 789

Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.1	115.7
141	58.3	46.4	69.6



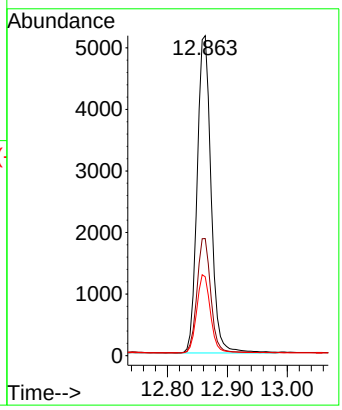


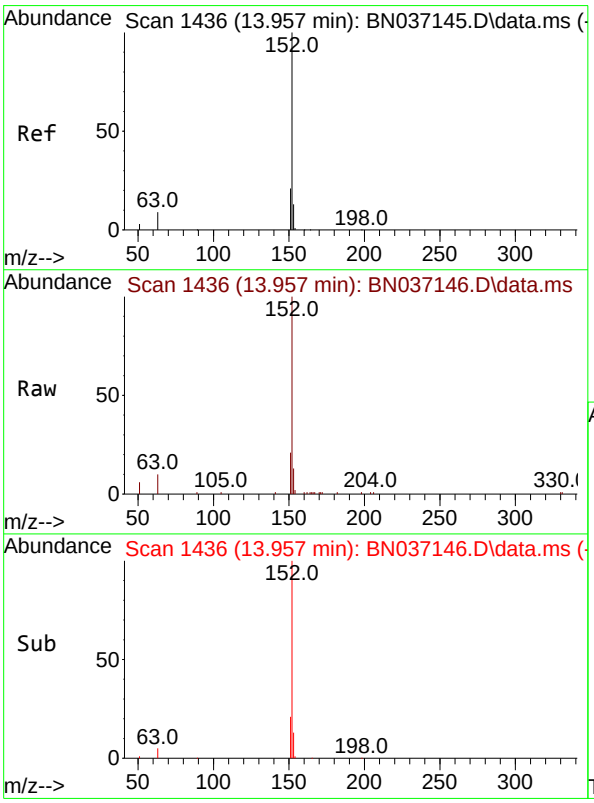
#15
2-Fluorobiphenyl
Concen: 0.776 ng
RT: 12.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 8296

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.6	44.4
170	24.7	20.3	30.5

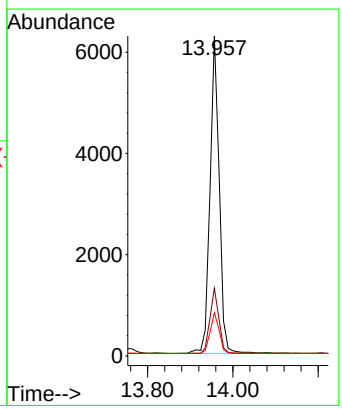


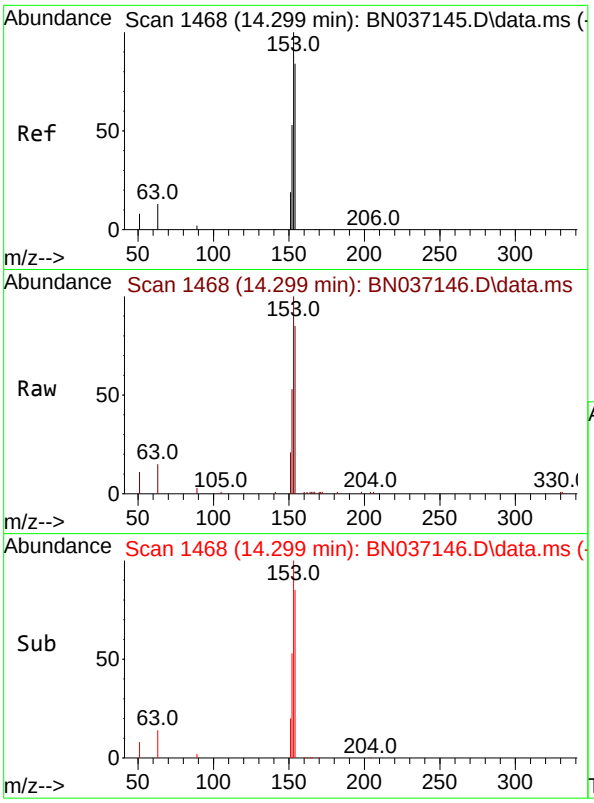


#16
Acenaphthylene
Concen: 0.763 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:152 Resp: 9385

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5
153	12.9	10.6	15.8



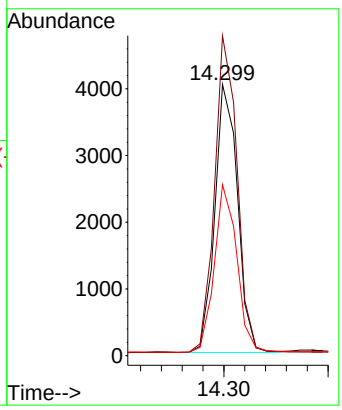


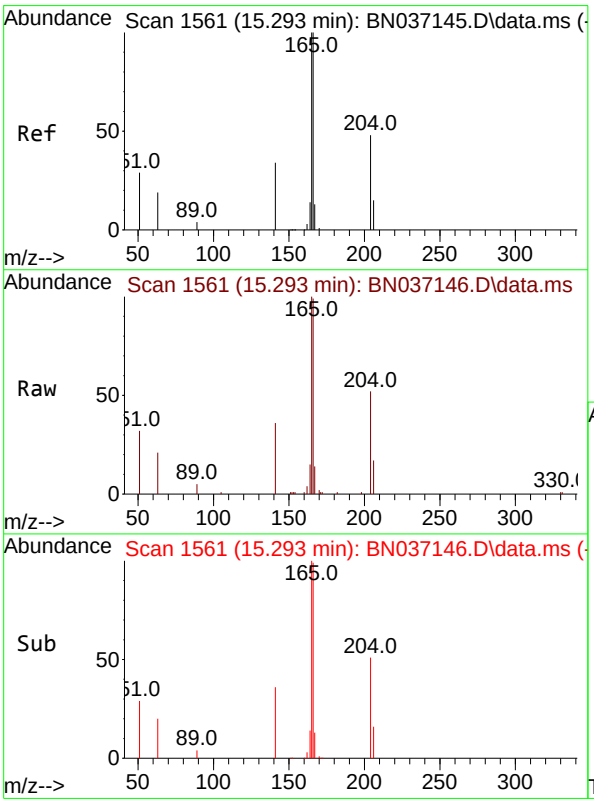
#17
Acenaphthene
Concen: 0.762 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 6080

Ion	Ratio	Lower	Upper
154	100		
153	117.4	93.8	140.8
152	62.7	50.5	75.7

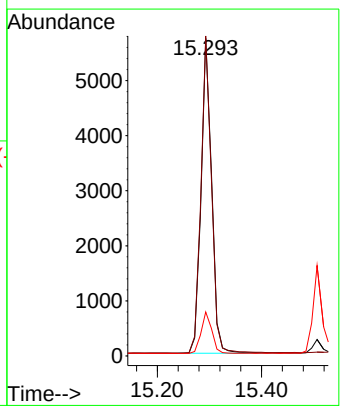


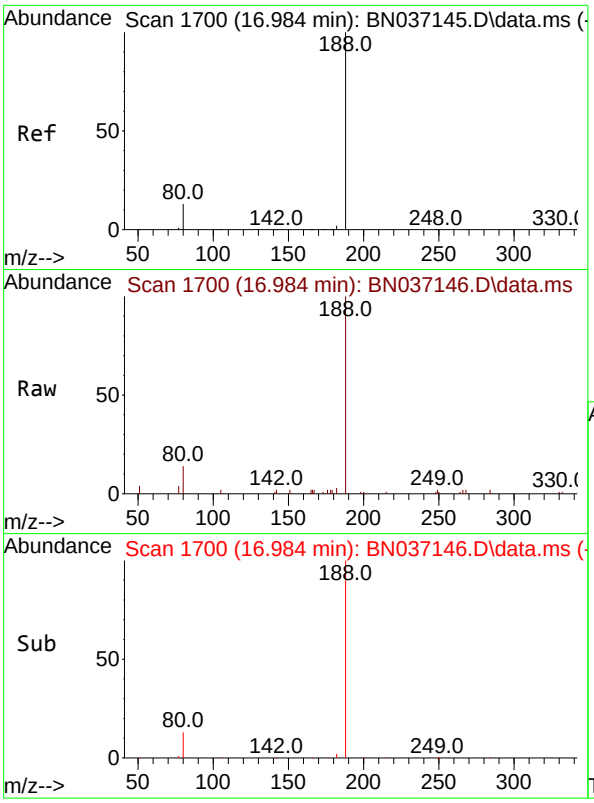


#18
Fluorene
Concen: 0.770 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:166 Resp: 8080

Ion	Ratio	Lower	Upper
166	100		
165	100.5	81.1	121.7
167	13.3	10.8	16.2



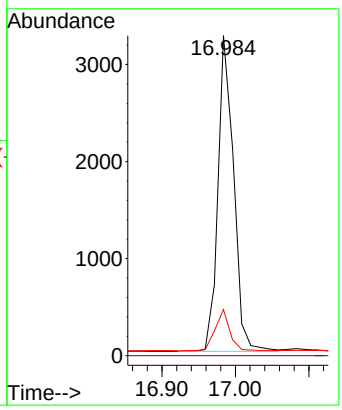


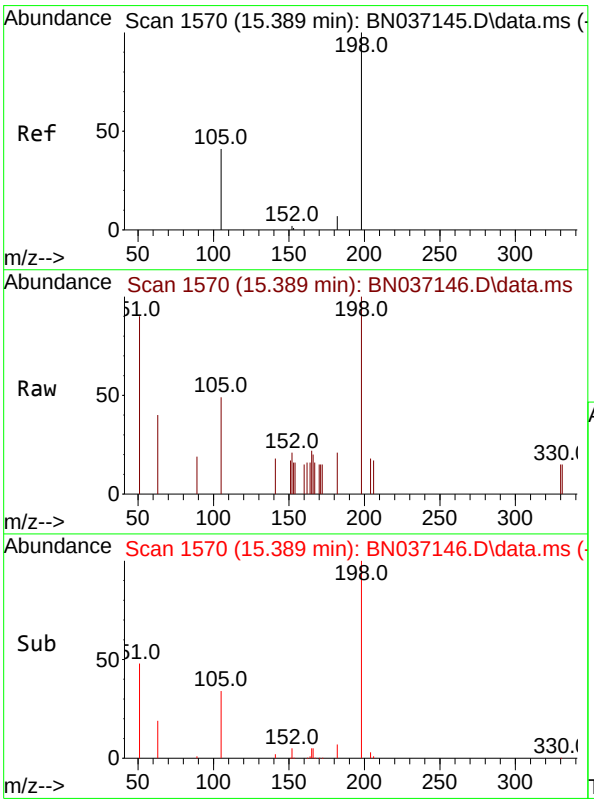
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 4816

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.4	11.3	16.9

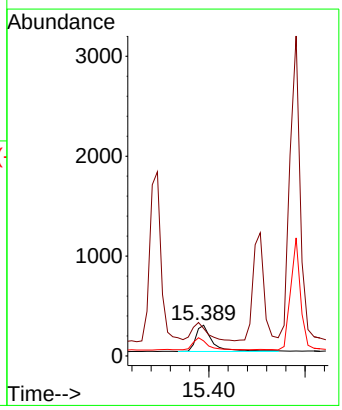


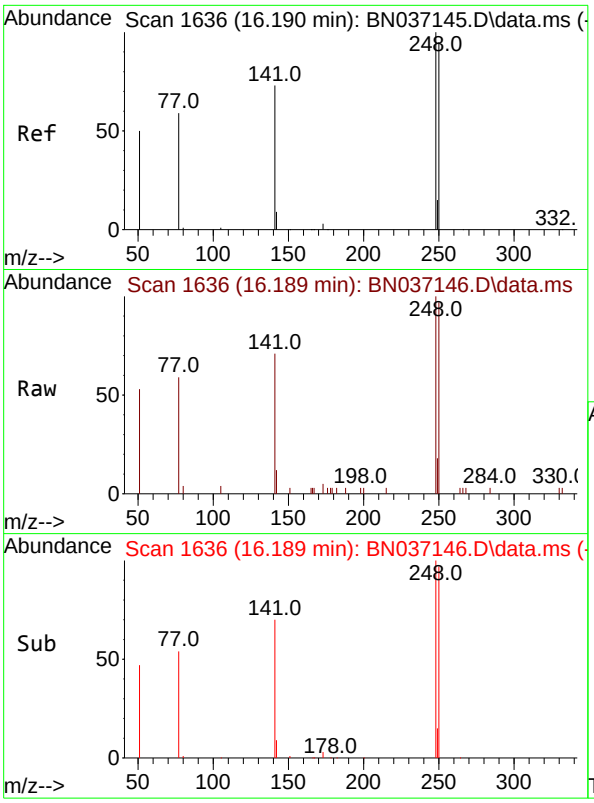


#20
4,6-Dinitro-2-methylphenol
Concen: 0.730 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:198 Resp: 643

Ion	Ratio	Lower	Upper
198	100		
51	89.6	125.2	187.8#
105	49.2	57.1	85.7#



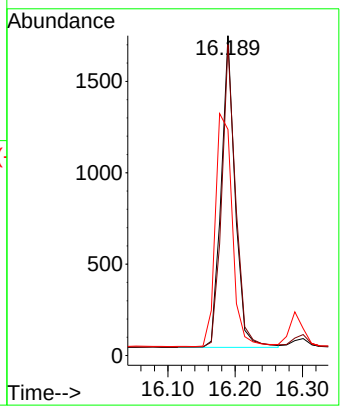


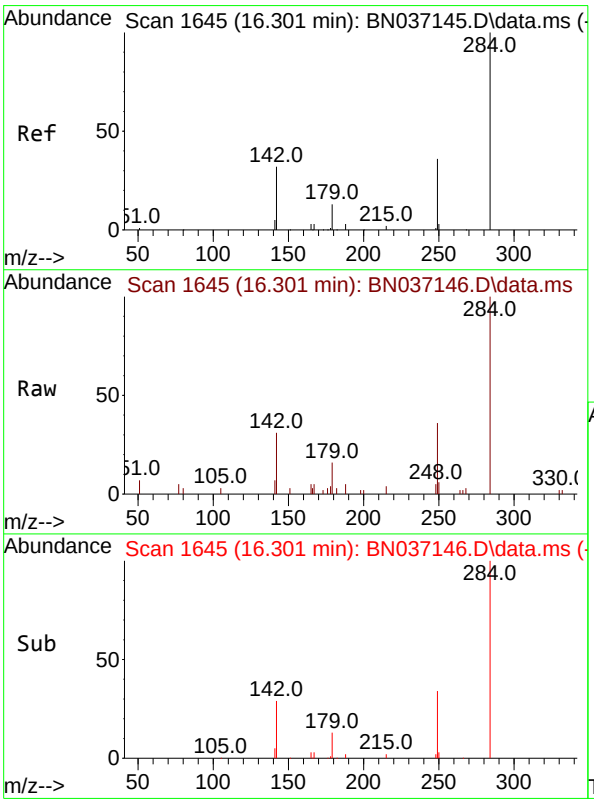
#21
4-Bromophenyl-phenylether
Concen: 0.775 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 2446

Ion	Ratio	Lower	Upper
248	100		
250	97.2	76.1	114.1
141	70.7	60.1	90.1

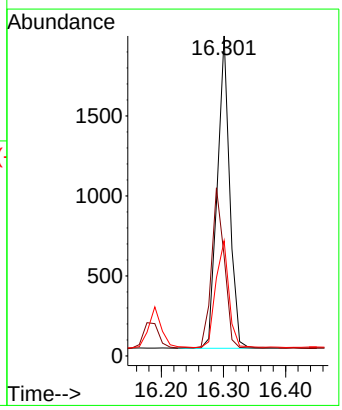


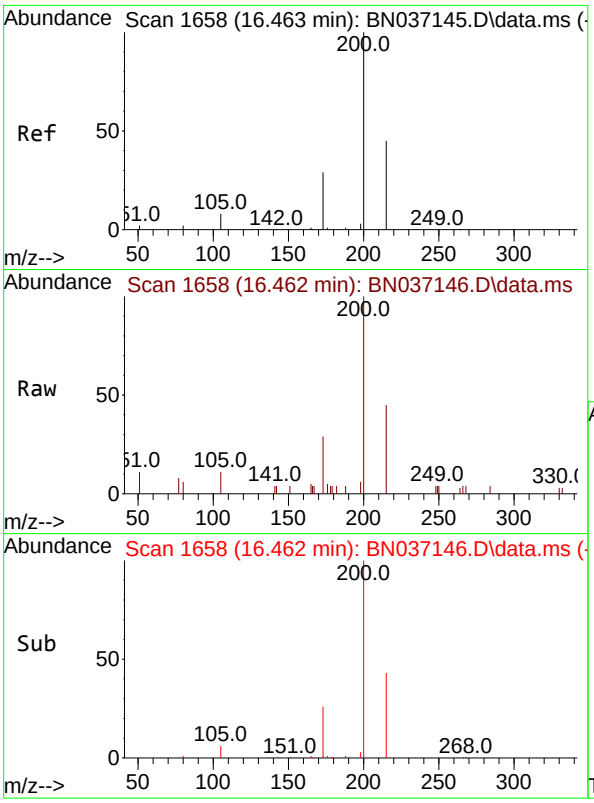


#22
Hexachlorobenzene
Concen: 0.790 ng
RT: 16.301 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:284 Resp: 2690

Ion	Ratio	Lower	Upper
284	100		
142	53.3	44.0	66.0
249	36.2	29.7	44.5



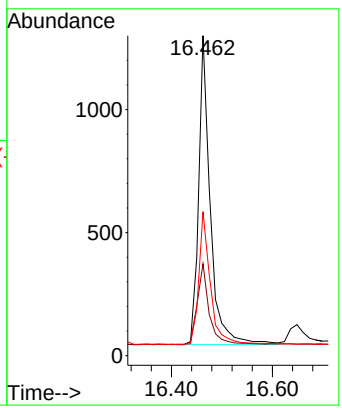


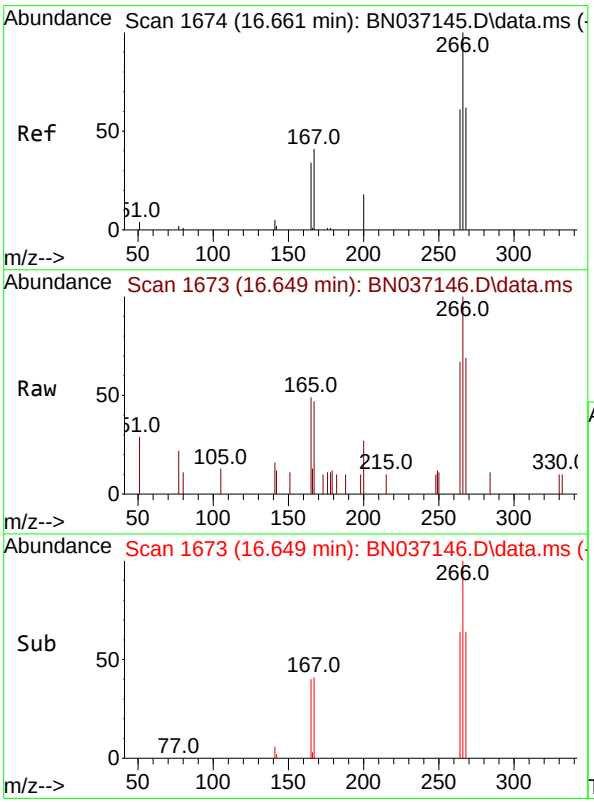
#23
Atrazine
Concen: 0.772 ng
RT: 16.462 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2011

Ion	Ratio	Lower	Upper
200	100		
173	28.8	28.1	42.1
215	45.0	39.3	58.9

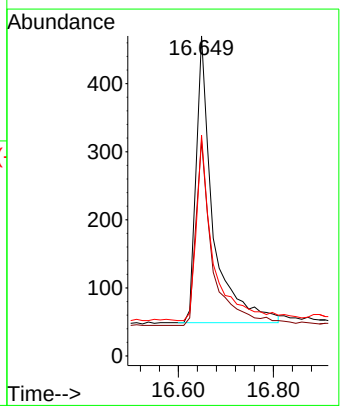


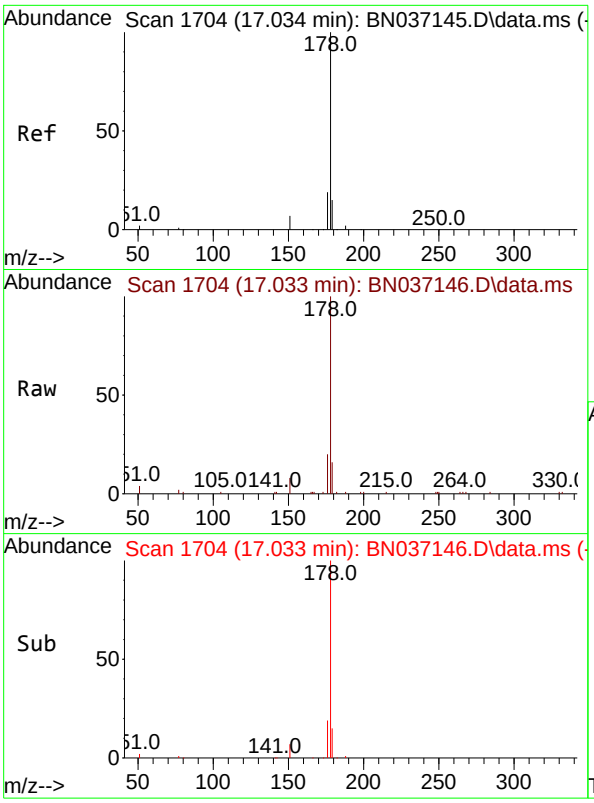


#24
Pentachlorophenol
Concen: 0.722 ng
RT: 16.649 min Scan# 1673
Delta R.T. -0.012 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:266 Resp: 1033

Ion	Ratio	Lower	Upper
266	100		
264	64.1	49.3	73.9
268	64.2	49.0	73.4



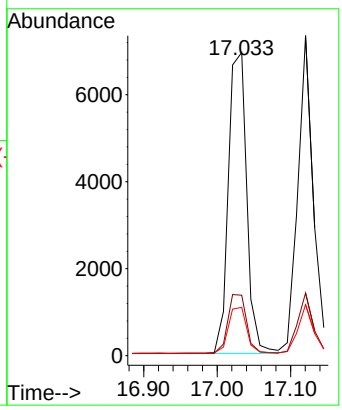


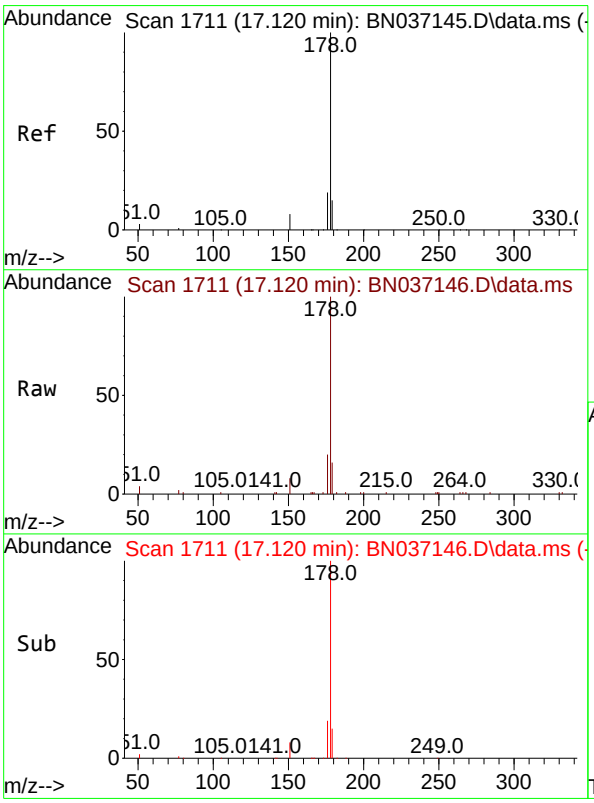
#25
Phenanthrene
Concen: 0.770 ng
RT: 17.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 12021

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.7	23.5
179	15.4	12.3	18.5

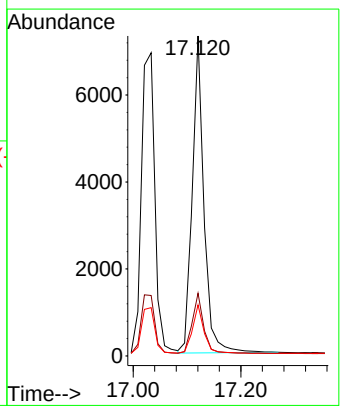


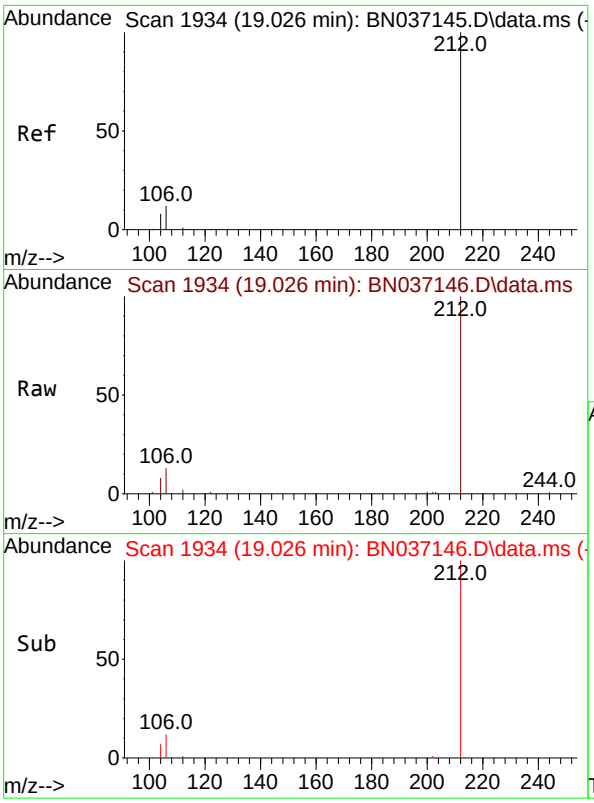


#26
Anthracene
Concen: 0.773 ng
RT: 17.120 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:178 Resp: 11005

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.2	12.9	19.3



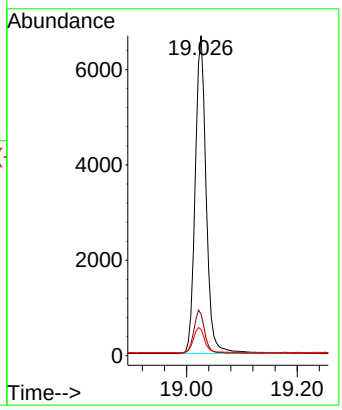


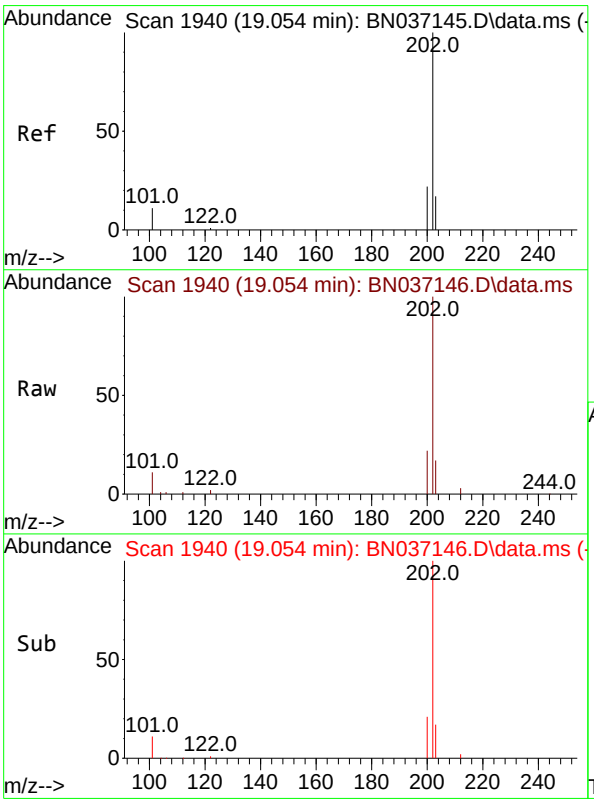
#27
Fluoranthene-d10
Concen: 0.753 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 9209

Ion	Ratio	Lower	Upper
212	100		
106	13.3	10.6	15.8
104	8.1	6.6	9.8

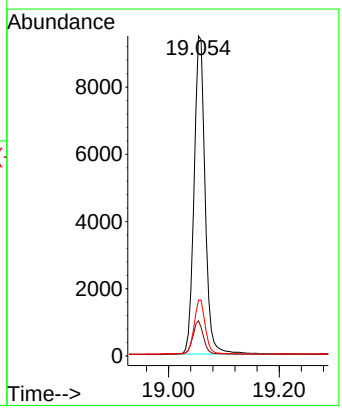


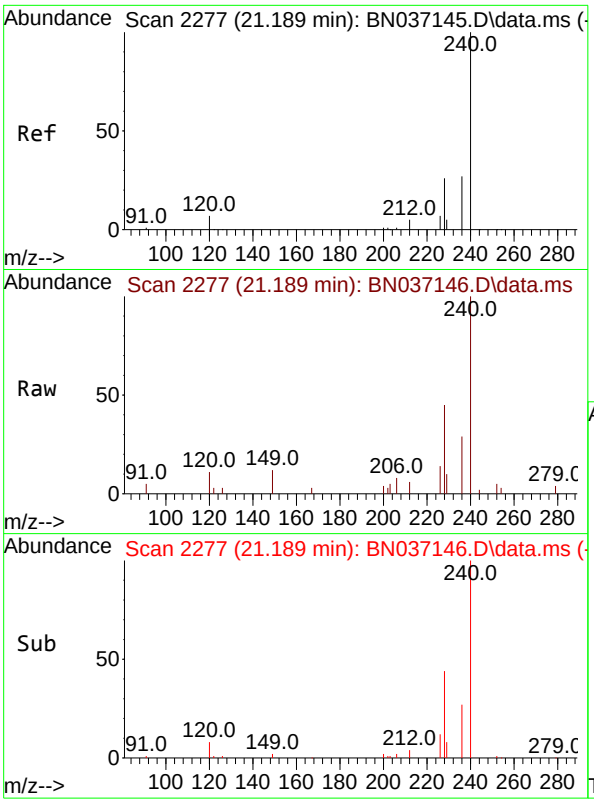


#28
Fluoranthene
Concen: 0.763 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:202 Resp: 13144

Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.7	13.1
203	17.0	13.5	20.3



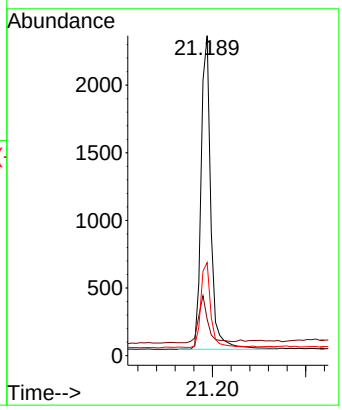


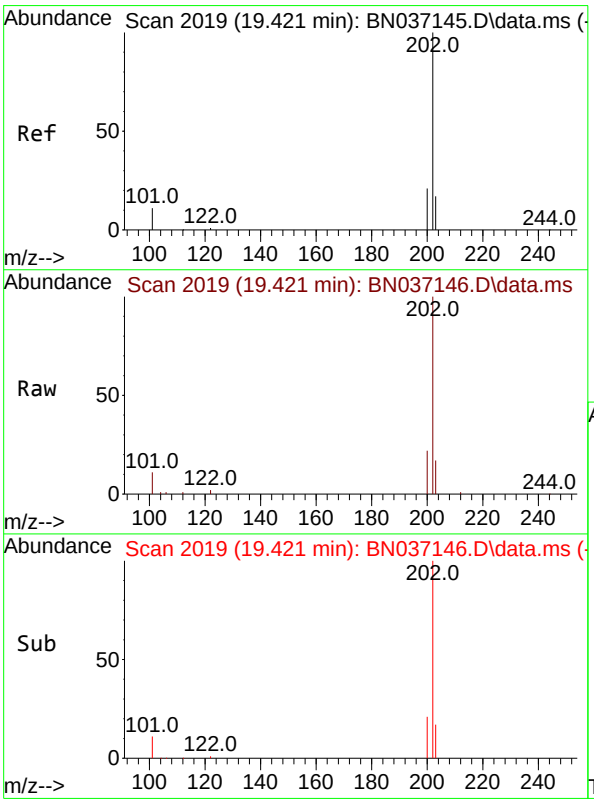
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 3381

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.0	13.4
236	29.1	23.0	34.4

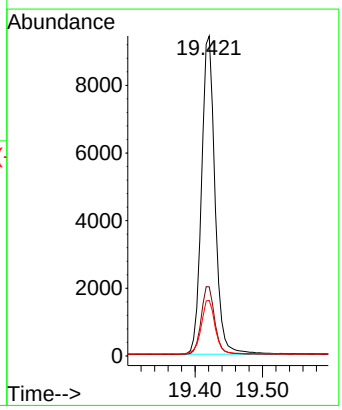


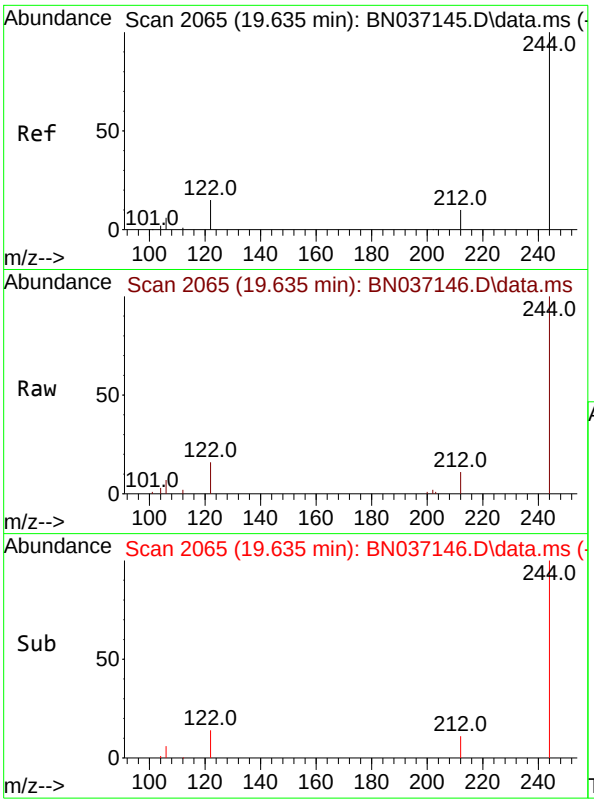


#30
Pyrene
Concen: 0.790 ng
RT: 19.421 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:202 Resp: 13035

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.0	25.6
203	17.6	14.2	21.4



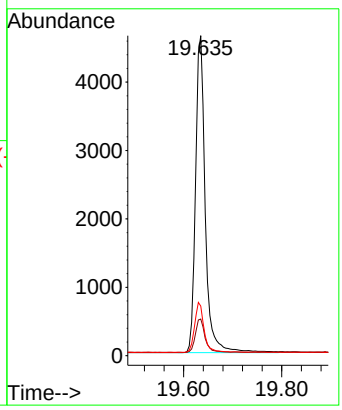


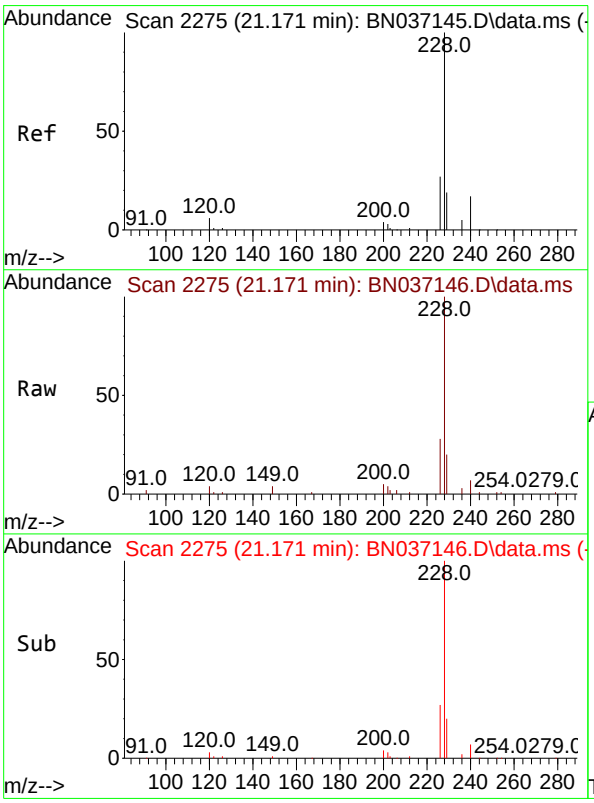
#31
Terphenyl-d14
Concen: 0.800 ng
RT: 19.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 6364

Ion	Ratio	Lower	Upper
244	100		
212	11.5	10.0	15.0
122	15.5	13.2	19.8

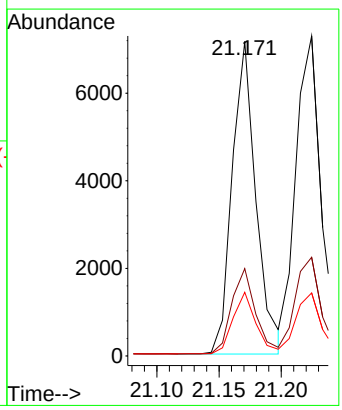


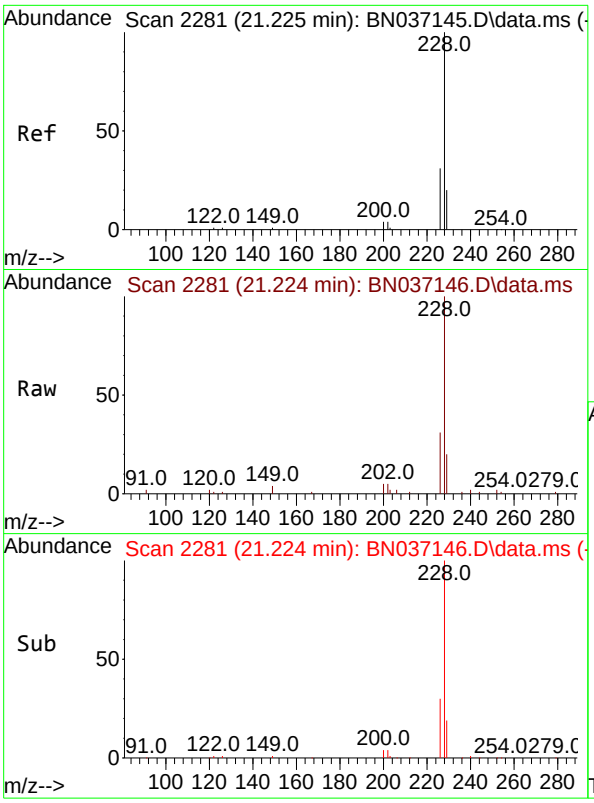


#32
Benzo(a)anthracene
Concen: 0.776 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:228 Resp: 9494

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	20.2	16.2	24.2



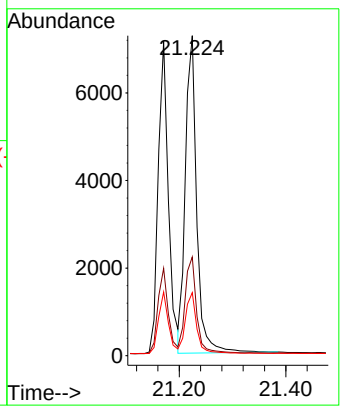


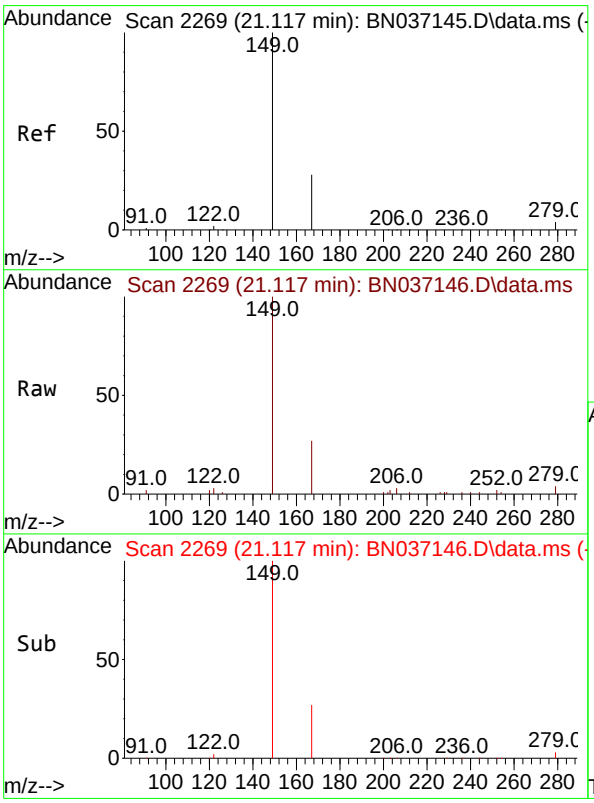
#33
Chrysene
Concen: 0.785 ng
RT: 21.224 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 10700

Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.2	37.8
229	19.7	16.8	25.2

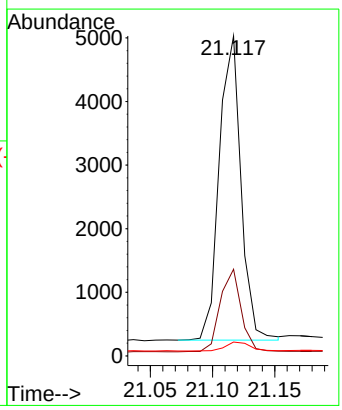


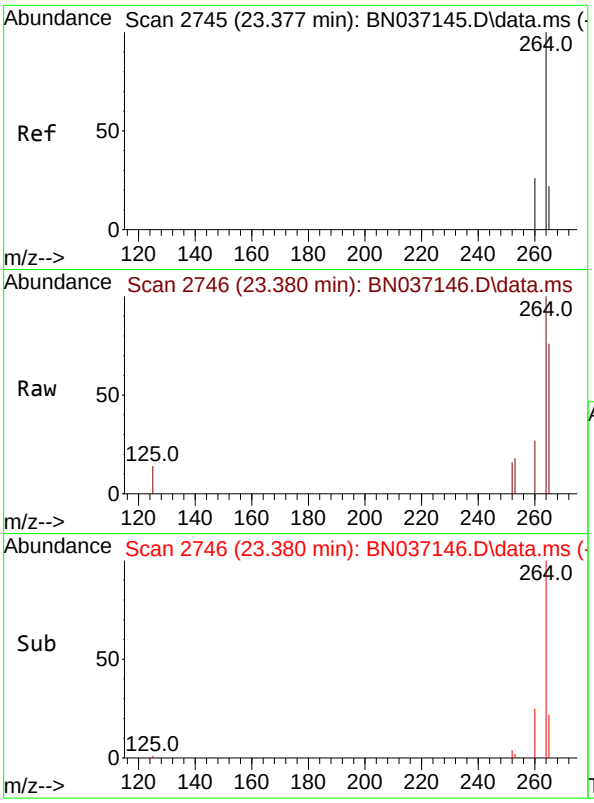


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.751 ng
RT: 21.117 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:149 Resp: 5801

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.0	31.4
279	3.3	2.9	4.3



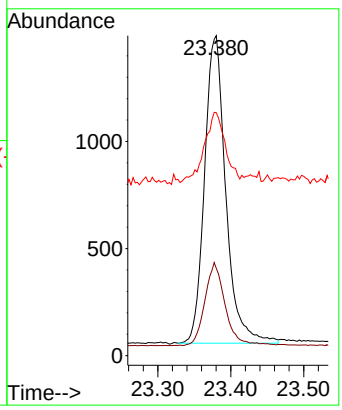


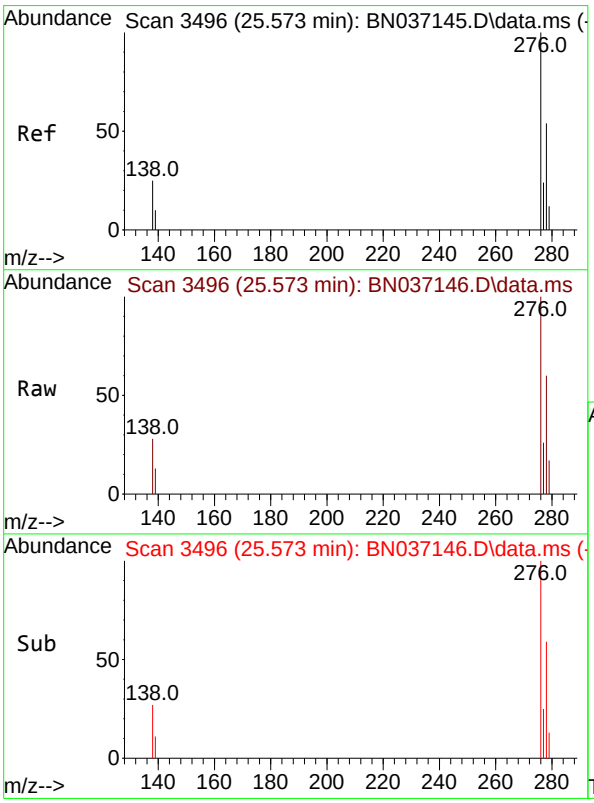
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.380 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 2909

Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.1	33.1
265	76.0	55.8	83.8

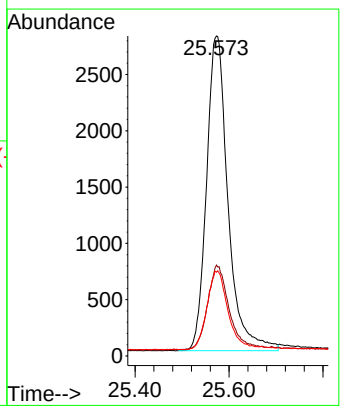


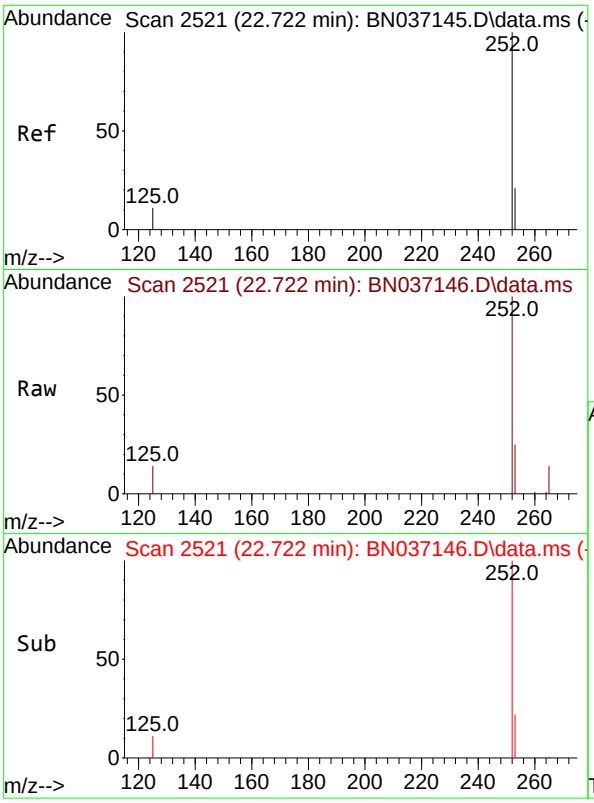


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.767 ng
RT: 25.573 min Scan# 3496
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:276 Resp: 8881

Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.0	31.6
277	24.5	19.4	29.2



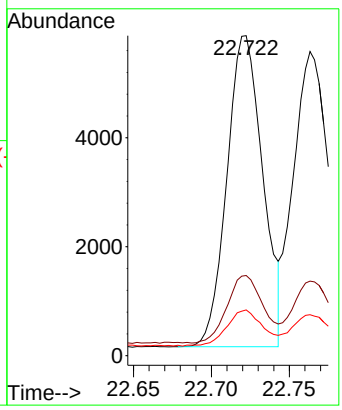


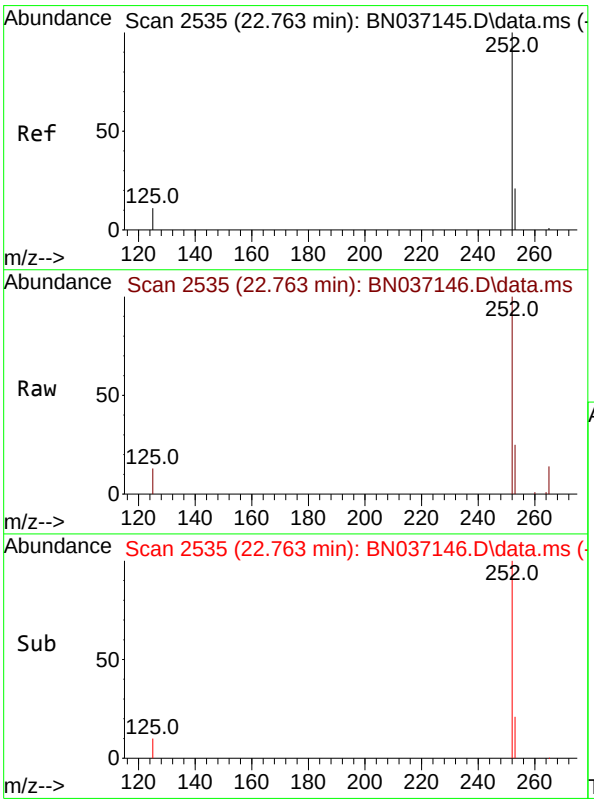
#37
Benzo(b)fluoranthene
Concen: 0.780 ng
RT: 22.722 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 9165

Ion	Ratio	Lower	Upper
252	100		
253	25.0	22.3	33.5
125	14.3	13.2	19.8

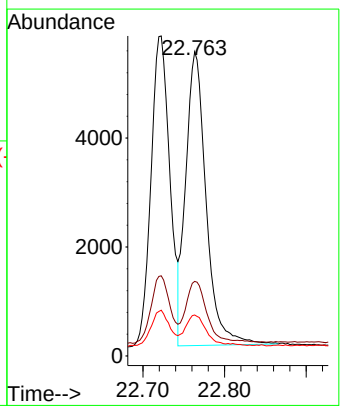


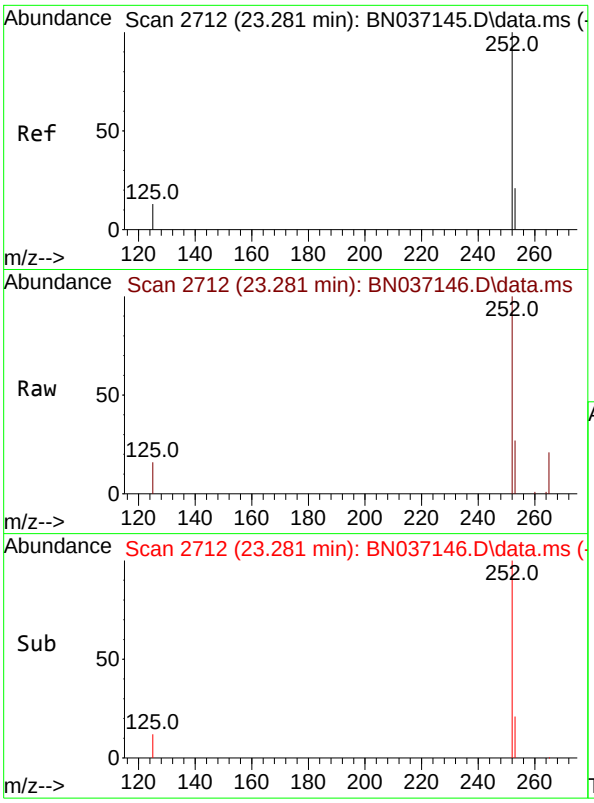


#38
Benzo(k)fluoranthene
Concen: 0.782 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:252 Resp: 9379

Ion	Ratio	Lower	Upper
252	100		
253	24.5	22.2	33.4
125	13.5	13.2	19.8



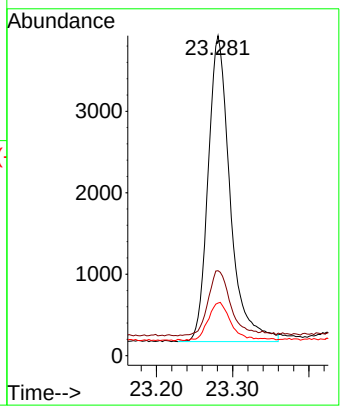


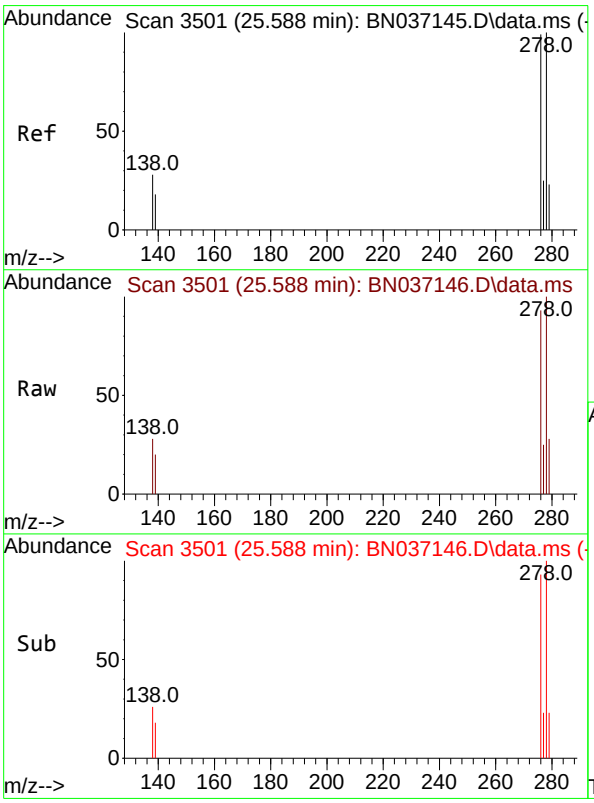
#39
Benzo(a)pyrene
Concen: 0.765 ng
RT: 23.281 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 7528

Ion	Ratio	Lower	Upper
252	100		
253	26.6	25.0	37.4
125	16.4	17.0	25.6#

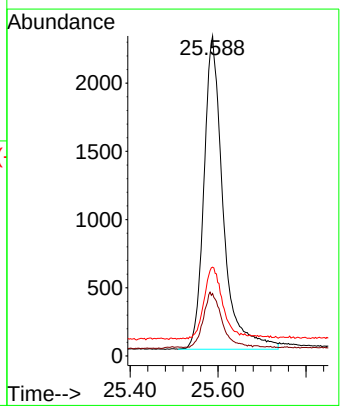


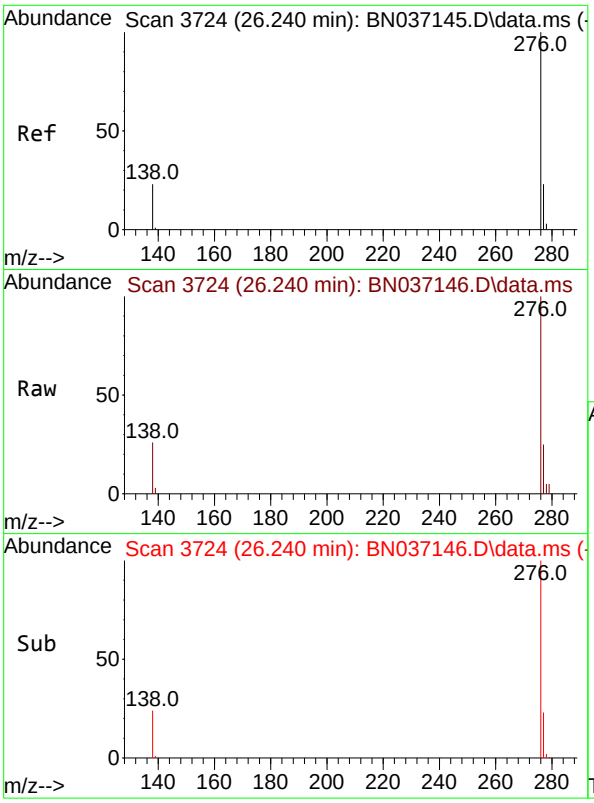


#40
Dibenzo(a,h)anthracene
Concen: 0.780 ng
RT: 25.588 min Scan# 3501
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Tgt Ion:278 Resp: 6960

Ion	Ratio	Lower	Upper
278	100		
139	19.5	17.6	26.4
279	27.7	26.0	39.0



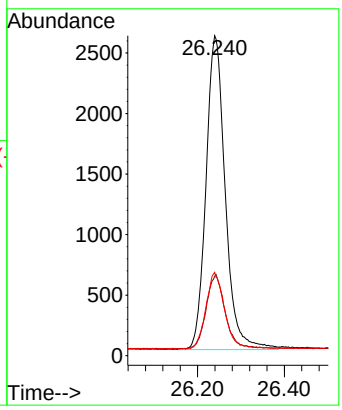


#41
Benzo(g,h,i)perylene
Concen: 0.778 ng
RT: 26.240 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037146.D
Acq: 03 Jun 2025 13:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 7980

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.9	31.3
138	26.1	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037147.D
Acq On : 03 Jun 2025 14:02
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 04 01:42:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.589	152	1779	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	4585	0.400	ng		0.00
13) Acenaphthene-d10	14.235	164	2603	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	5057	0.400	ng		0.00
29) Chrysene-d12	21.189	240	3873	0.400	ng		0.00
35) Perylene-d12	23.377	264	3320	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	7371	1.676	ng		0.00
5) Phenol-d6	6.766	99	9203	1.726	ng		0.00
8) Nitrobenzene-d5	8.739	82	8338	1.724	ng		0.00
11) 2-Methylnaphthalene-d10	11.966	152	10971	1.719	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	1930	1.842	ng		-0.01
15) 2-Fluorobiphenyl	12.858	172	18891	1.702	ng		0.00
27) Fluoranthene-d10	19.026	212	22095	1.720	ng		0.00
31) Terphenyl-d14	19.630	244	15589	1.710	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.119	88	3745	1.579	ng		97
3) n-Nitrosodimethylamine	3.429	42	8276	1.738	ng	#	97
6) bis(2-Chloroethyl)ether	7.026	93	8706	1.711	ng		98
9) Naphthalene	10.415	128	22289	1.685	ng		97
10) Hexachlorobutadiene	10.714	225	4883	1.694	ng	#	99
12) 2-Methylnaphthalene	12.042	142	14834	1.750	ng		97
16) Acenaphthylene	13.957	152	21986	1.723	ng		100
17) Acenaphthene	14.299	154	14266	1.722	ng		99
18) Fluorene	15.293	166	18976	1.742	ng		100
20) 4,6-Dinitro-2-methylph...	15.378	198	1819	1.502	ng	#	41
21) 4-Bromophenyl-phenylether	16.189	248	5692	1.717	ng		90
22) Hexachlorobenzene	16.301	284	6093	1.703	ng		99
23) Atrazine	16.463	200	4865	1.778	ng	#	88
24) Pentachlorophenol	16.649	266	2828	1.535	ng		96
25) Phenanthrene	17.021	178	28034	1.711	ng		100
26) Anthracene	17.120	178	26183	1.751	ng		99
28) Fluoranthene	19.054	202	31942	1.765	ng		100
30) Pyrene	19.416	202	31728	1.678	ng		100
32) Benzo(a)anthracene	21.171	228	24513	1.748	ng		99
33) Chrysene	21.224	228	26306	1.685	ng		98
34) Bis(2-ethylhexyl)phtha...	21.117	149	14807	1.674	ng		100
36) Indeno(1,2,3-cd)pyrene	25.573	276	22504	1.704	ng		98
37) Benzo(b)fluoranthene	22.722	252	23418	1.747	ng	#	90
38) Benzo(k)fluoranthene	22.763	252	23602	1.725	ng	#	90
39) Benzo(a)pyrene	23.281	252	19265	1.716	ng	#	86
40) Dibenzo(a,h)anthracene	25.588	278	17700	1.738	ng	#	90
41) Benzo(g,h,i)perylene	26.243	276	19619	1.677	ng		97

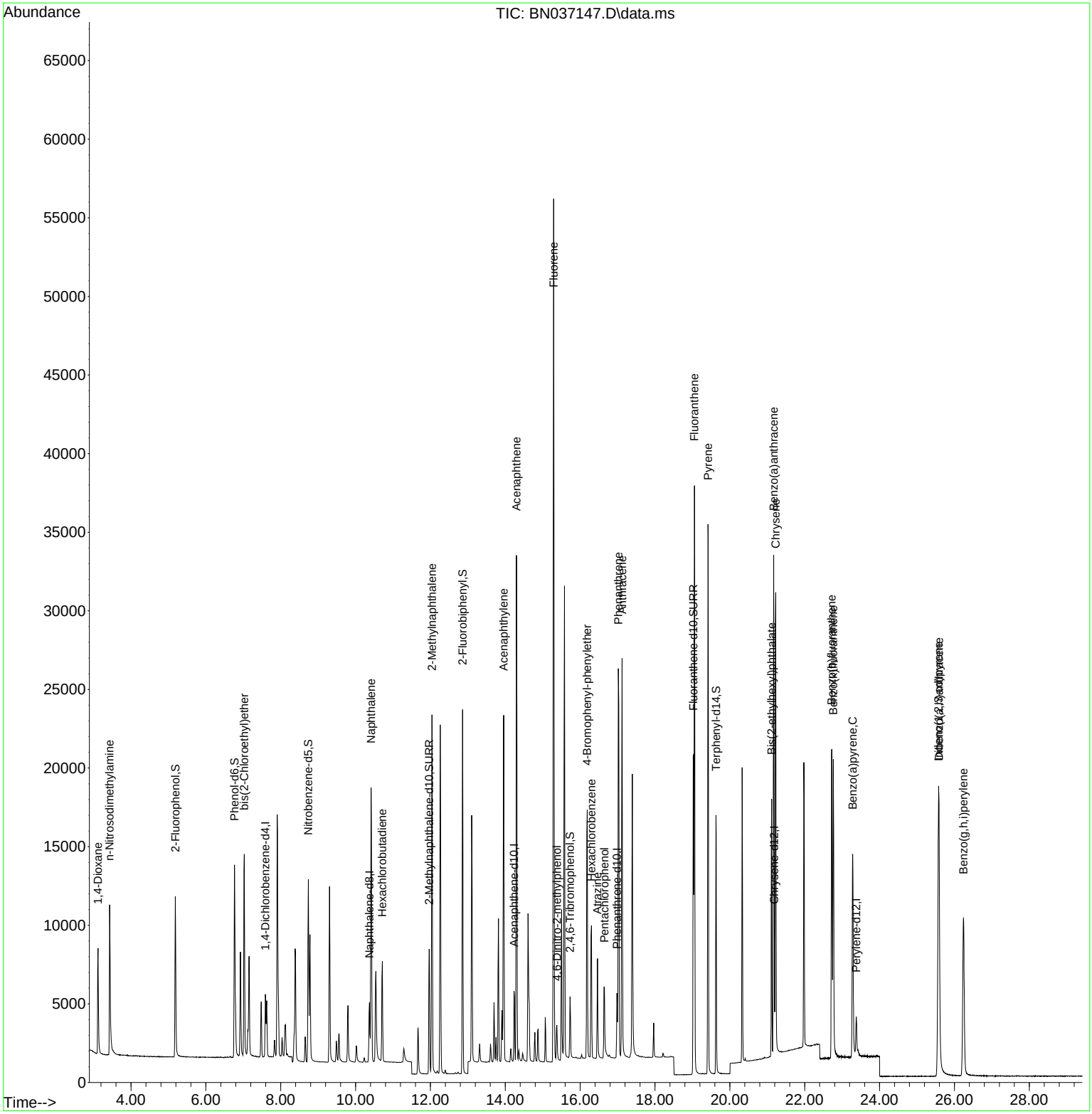
(#) = qualifier out of range (m) = manual integration (+) = signals summed

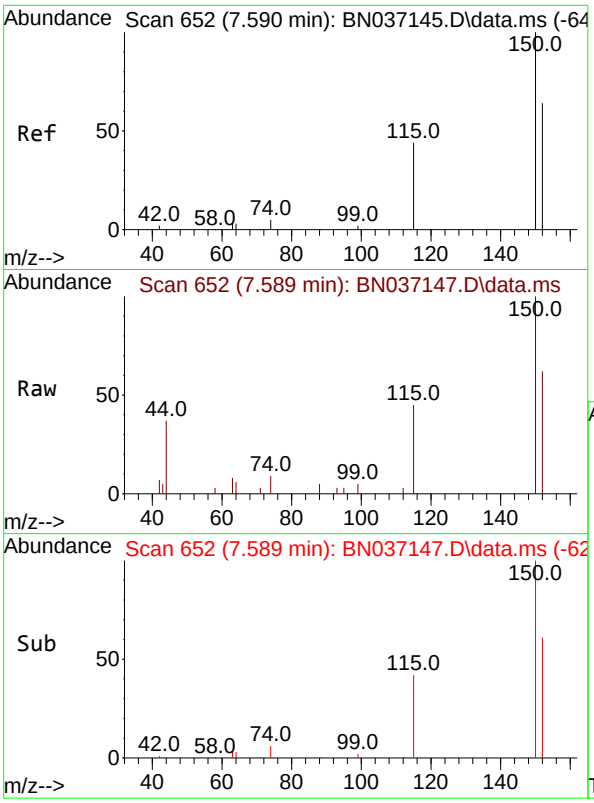
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037147.D
Acq On : 03 Jun 2025 14:02
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 04 01:42:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration



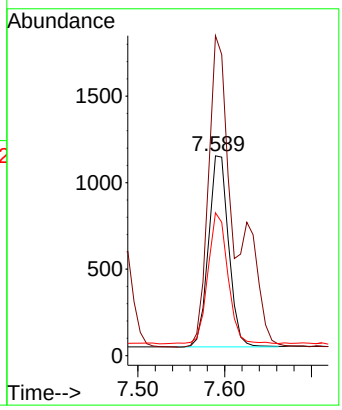


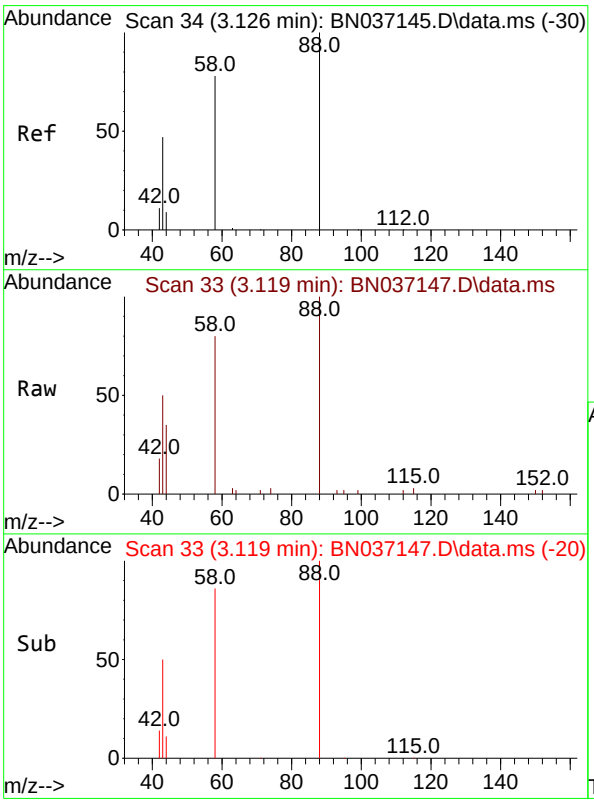
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 1779

Ion	Ratio	Lower	Upper
152	100		
150	160.2	123.2	184.8
115	71.5	56.6	85.0

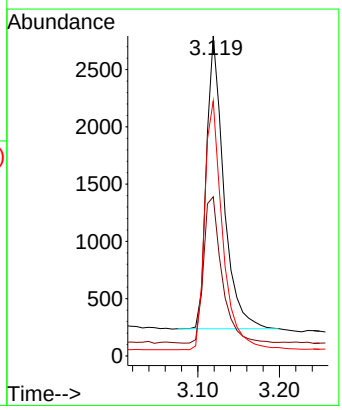


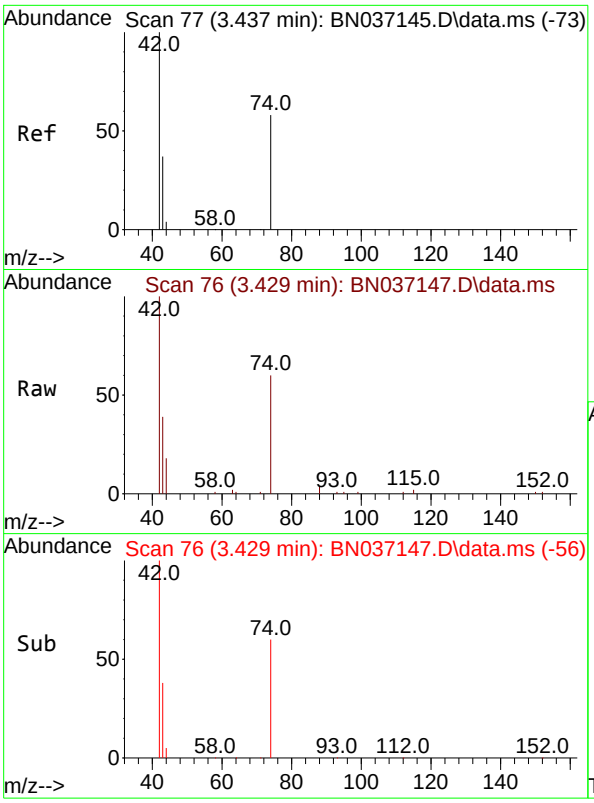


#2
1,4-Dioxane
Concen: 1.579 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion: 88 Resp: 3745

Ion	Ratio	Lower	Upper
88	100		
43	53.6	43.5	65.3
58	88.6	67.7	101.5



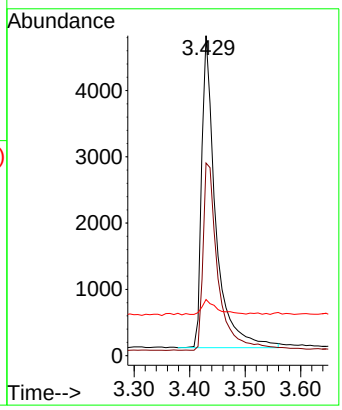


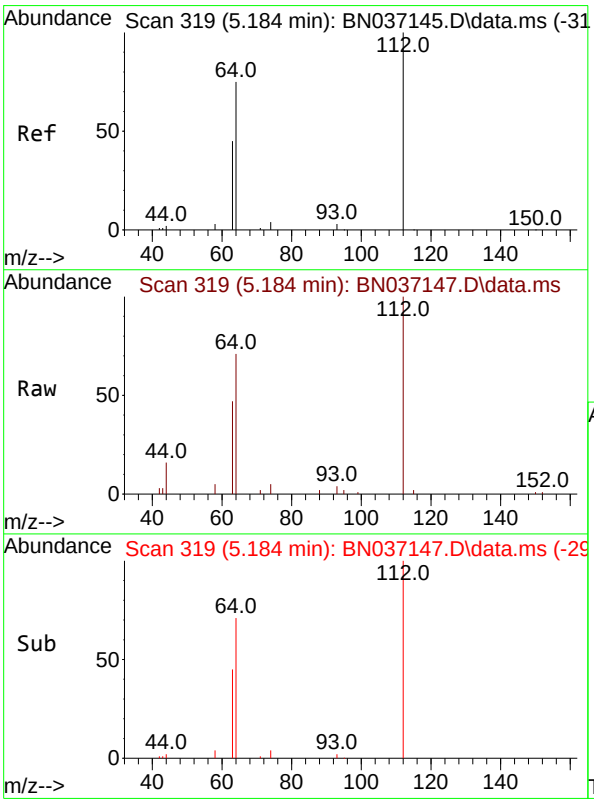
#3
n-Nitrosodimethylamine
Concen: 1.738 ng
RT: 3.429 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 8276

Ion	Ratio	Lower	Upper
42	100		
74	64.1	53.0	79.4
44	5.2	5.9	8.9#

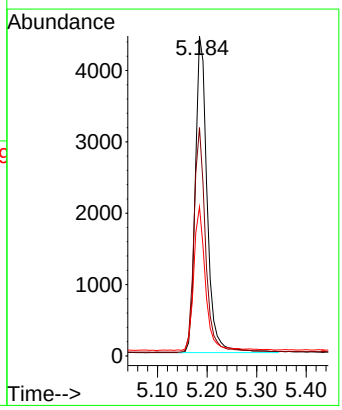


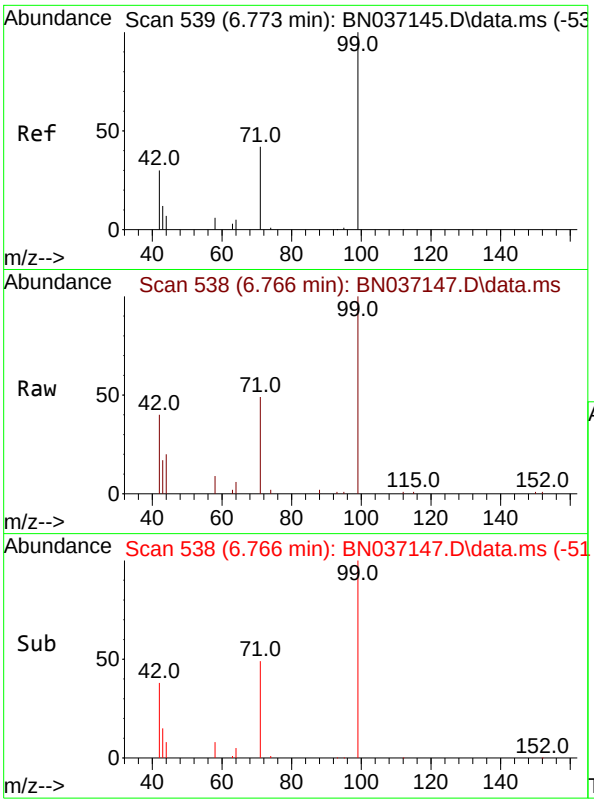


#4
2-Fluorophenol
Concen: 1.676 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:112 Resp: 7371

Ion	Ratio	Lower	Upper
112	100		
64	69.5	56.3	84.5
63	44.8	36.2	54.4



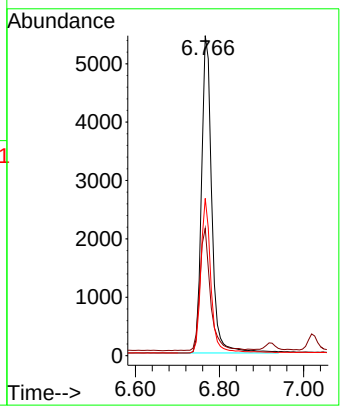


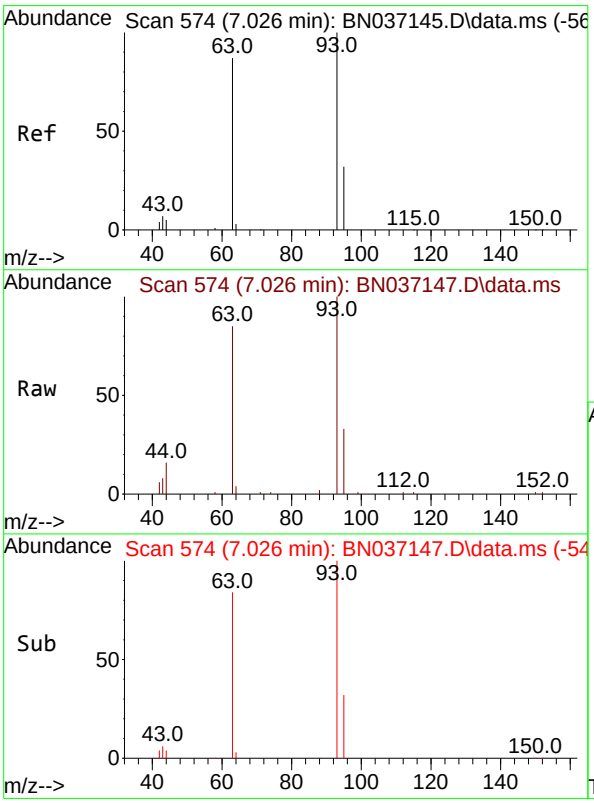
#5
Phenol-d6
Concen: 1.726 ng
RT: 6.766 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 9203

Ion	Ratio	Lower	Upper
99	100		
42	39.7	31.3	46.9
71	47.7	38.2	57.2

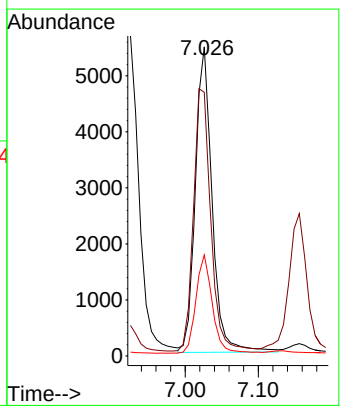


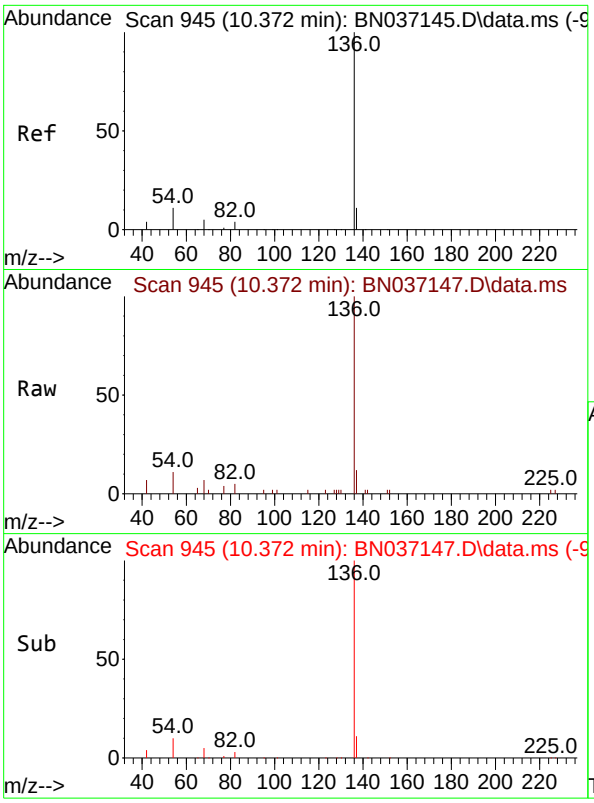


#6
bis(2-Chloroethyl)ether
Concen: 1.711 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion: 93 Resp: 8706

Ion	Ratio	Lower	Upper
93	100		
63	88.1	68.6	103.0
95	31.3	24.3	36.5



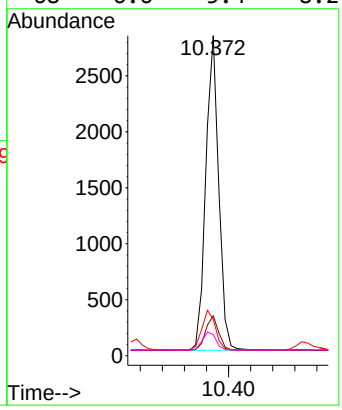


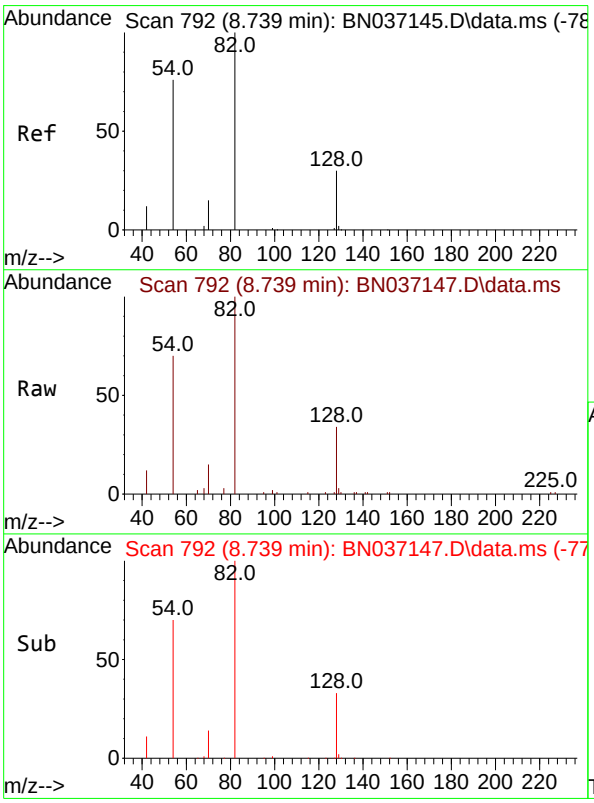
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 4585

Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.7	14.5
54	11.3	9.7	14.5
68	6.6	5.4	8.2

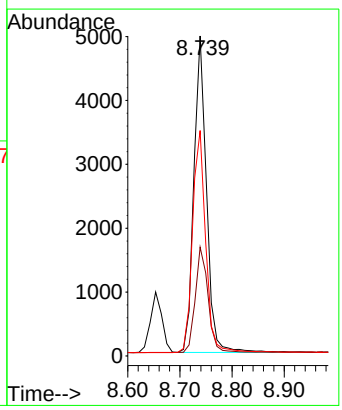


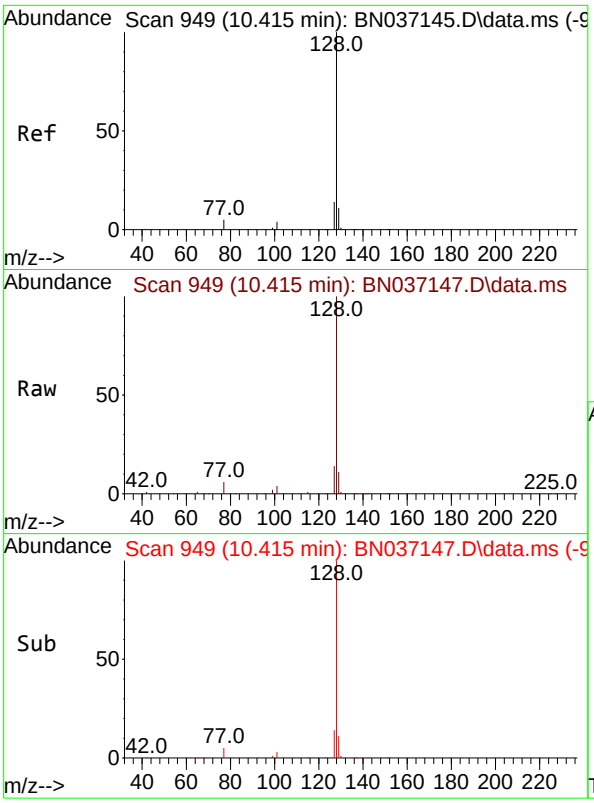


#8
Nitrobenzene-d5
Concen: 1.724 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion: 82 Resp: 8338

Ion	Ratio	Lower	Upper
82	100		
128	34.0	26.9	40.3
54	70.4	61.4	92.2



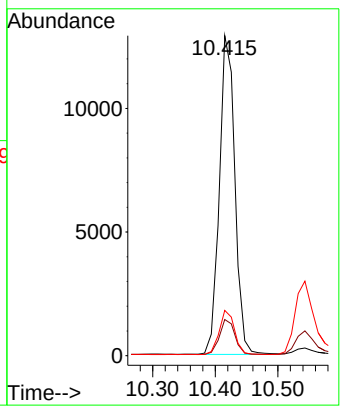


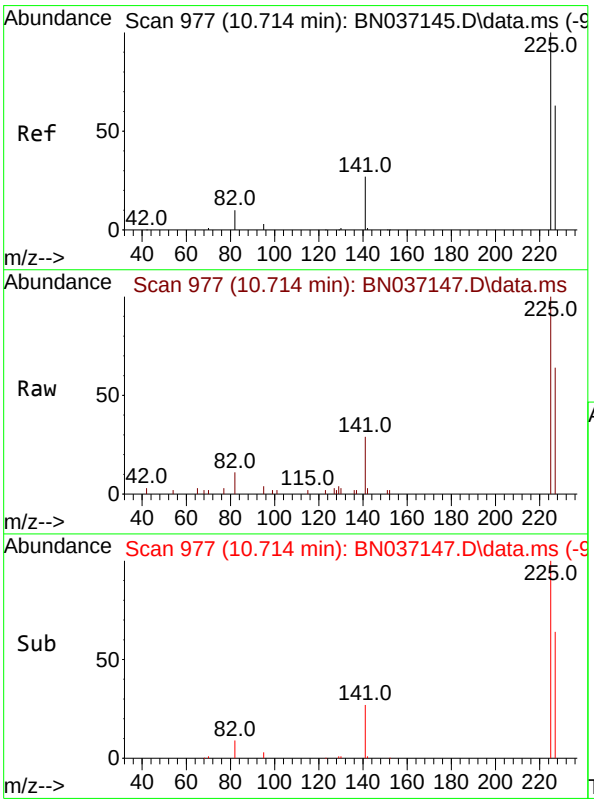
#9
Naphthalene
Concen: 1.685 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 22289

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.8	14.8
127	14.1	12.3	18.5

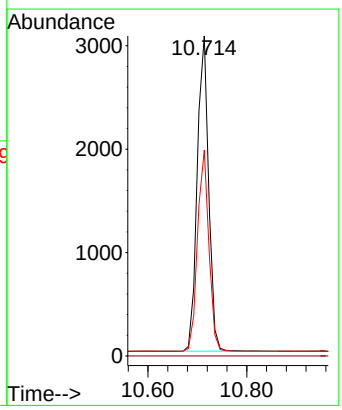


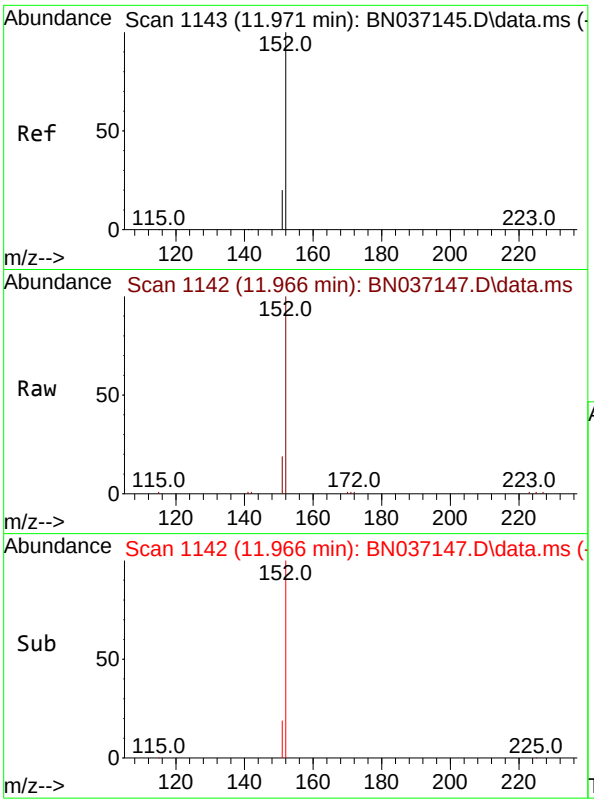


#10
Hexachlorobutadiene
Concen: 1.694 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:225 Resp: 4883

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



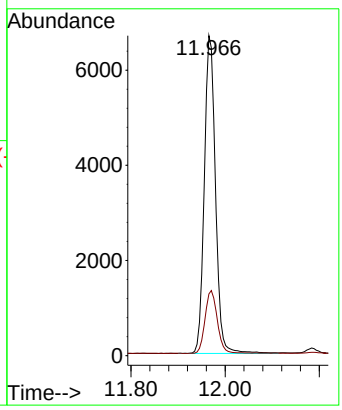


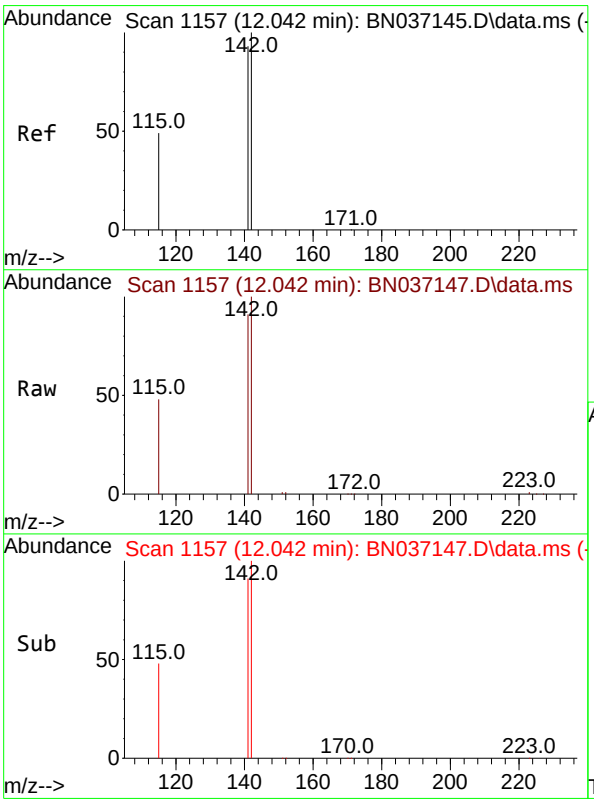
#11
2-Methylnaphthalene-d10
Concen: 1.719 ng
RT: 11.966 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 10971

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.1	25.7

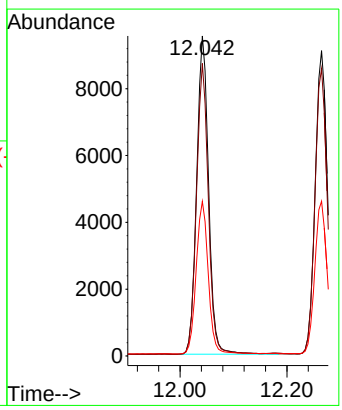


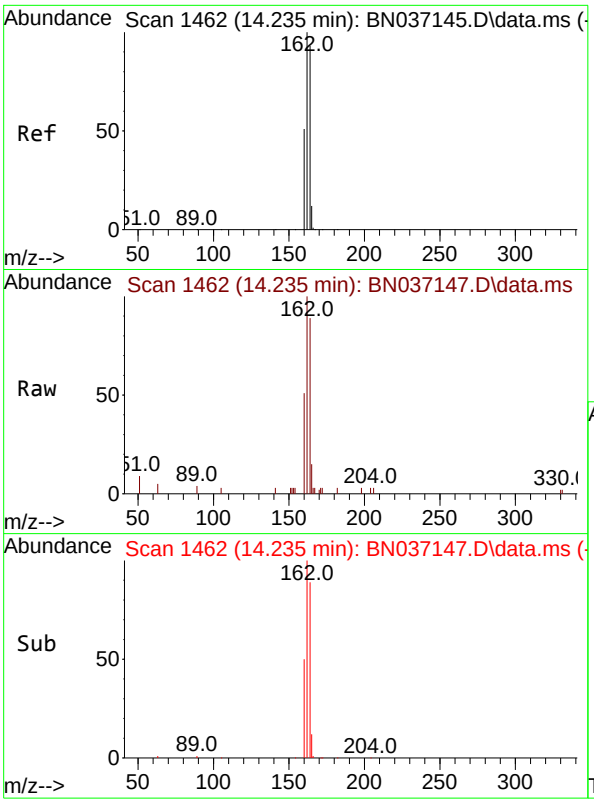


#12
2-Methylnaphthalene
Concen: 1.750 ng
RT: 12.042 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:142 Resp: 14834

Ion	Ratio	Lower	Upper
142	100		
141	91.4	74.6	111.8
115	48.3	41.0	61.4



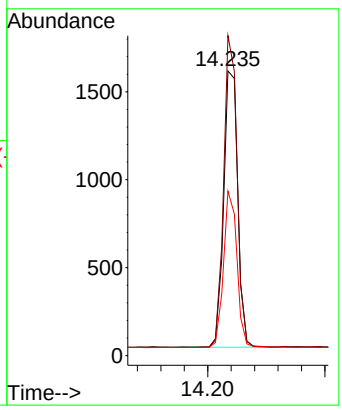


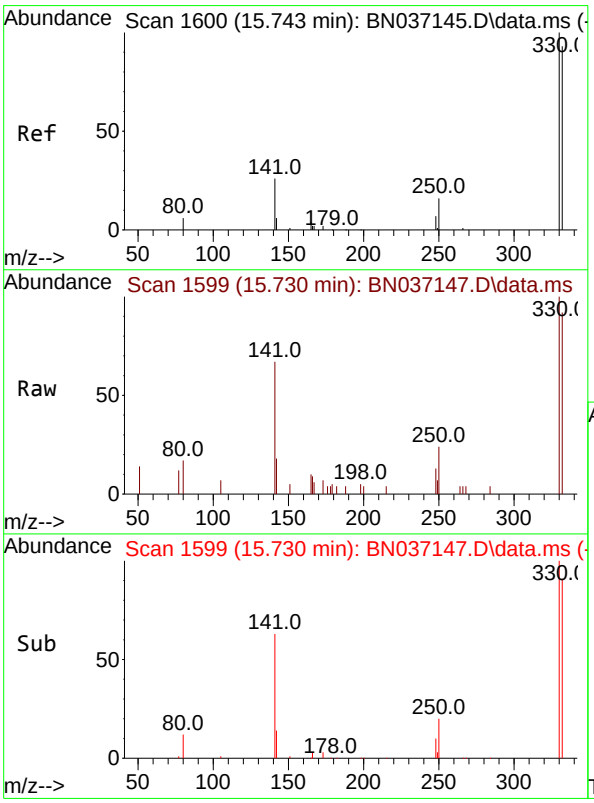
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 2603

Ion	Ratio	Lower	Upper
164	100		
162	112.4	85.5	128.3
160	57.8	44.6	67.0

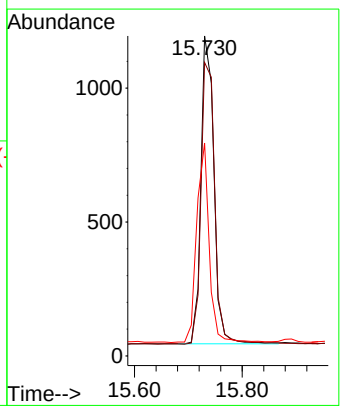


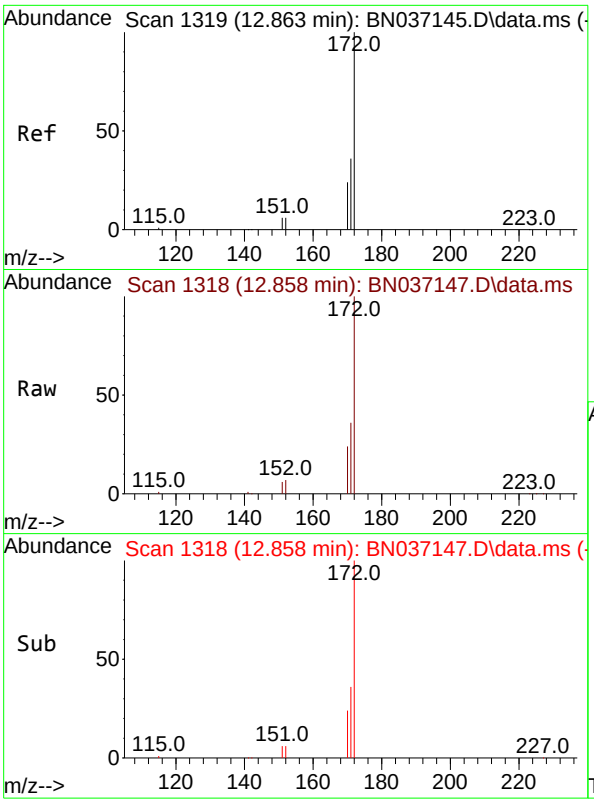


#14
2,4,6-Tribromophenol
Concen: 1.842 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.012 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:330 Resp: 1930

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.1	115.7
141	62.6	46.4	69.6



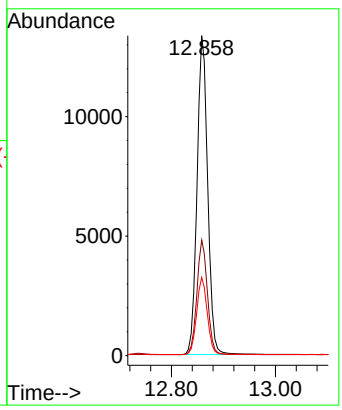


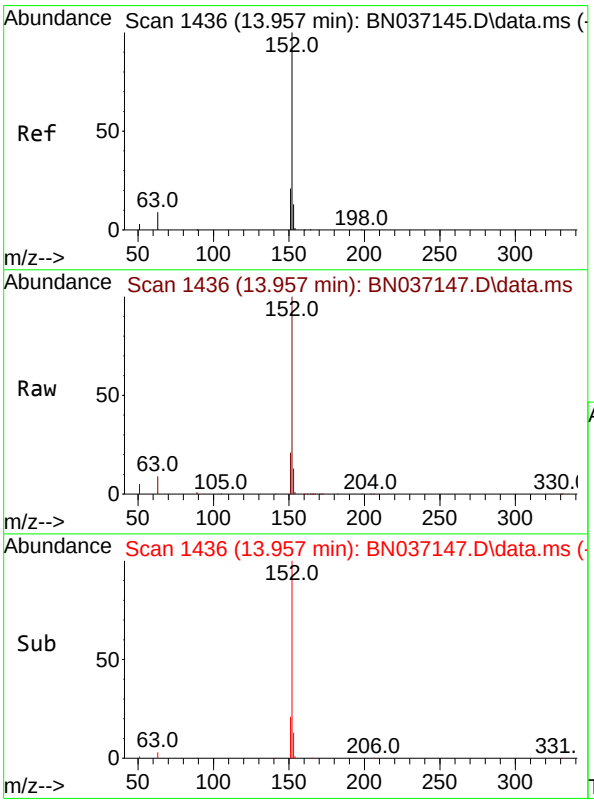
#15
2-Fluorobiphenyl
Concen: 1.702 ng
RT: 12.858 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 18891

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.6	44.4
170	24.5	20.3	30.5

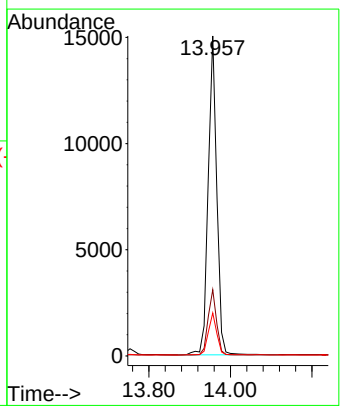


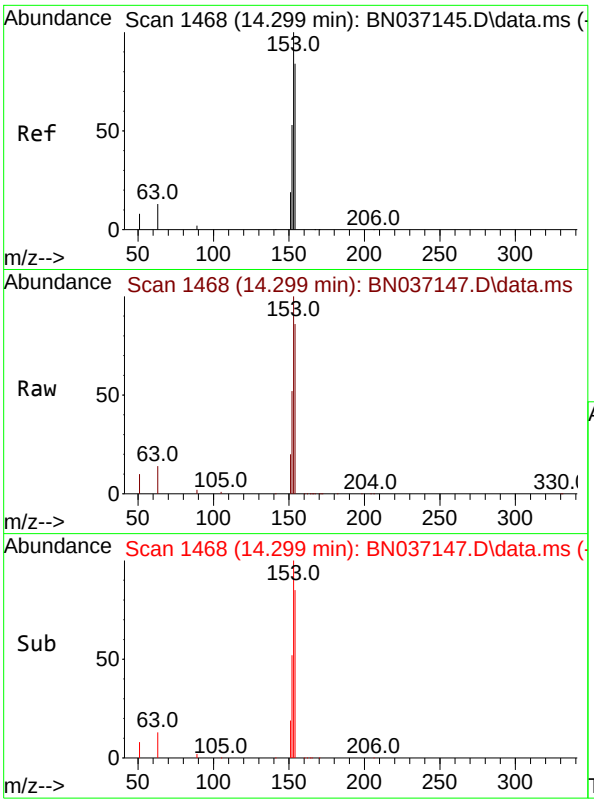


#16
Acenaphthylene
Concen: 1.723 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:152 Resp: 21986

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	13.0	10.6	15.8



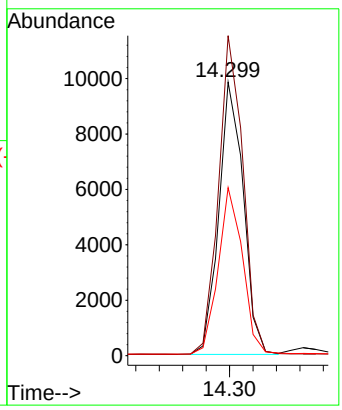


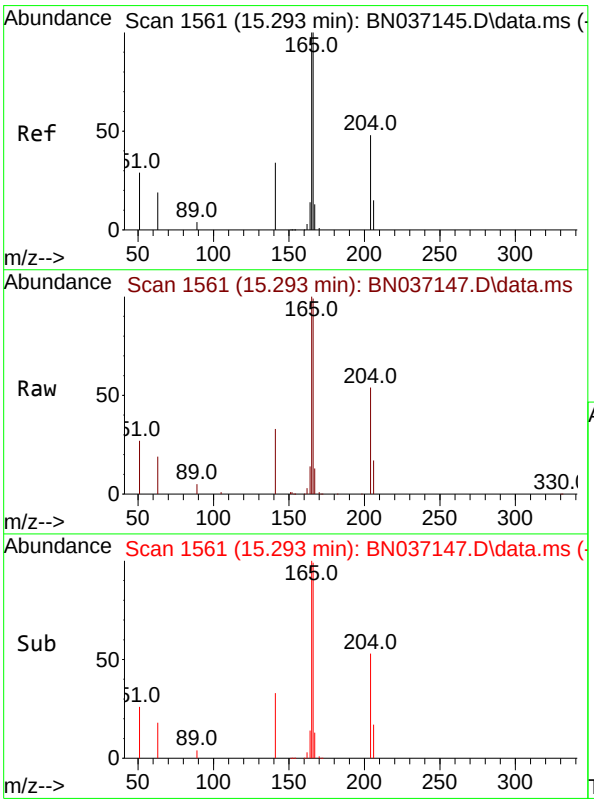
#17
Acenaphthene
Concen: 1.722 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 14266

Ion	Ratio	Lower	Upper
154	100		
153	117.1	93.8	140.8
152	61.2	50.5	75.7

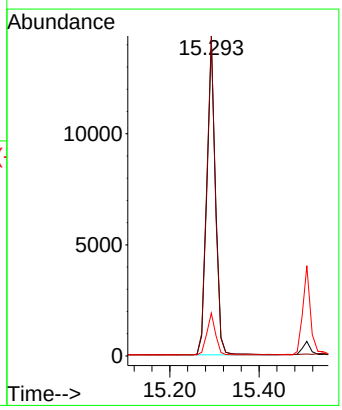


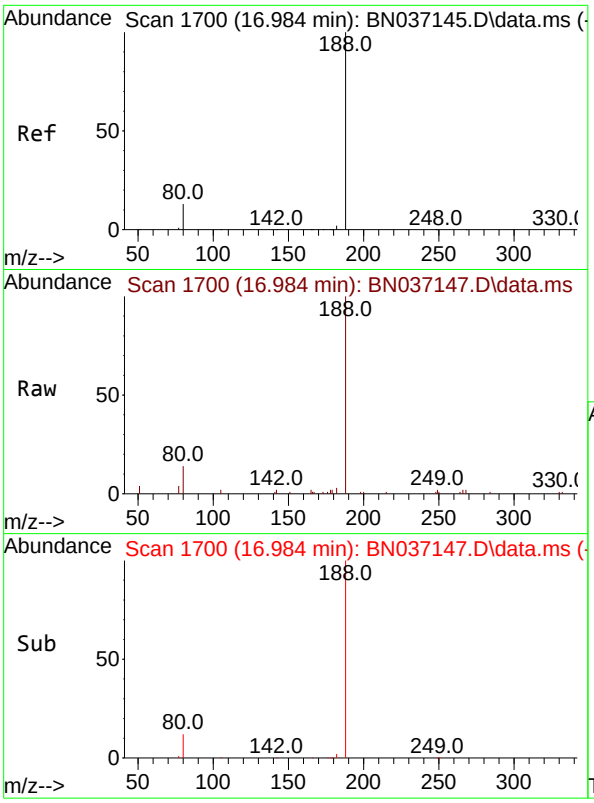


#18
Fluorene
Concen: 1.742 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:166 Resp: 18976

Ion	Ratio	Lower	Upper
166	100		
165	101.0	81.1	121.7
167	13.2	10.8	16.2



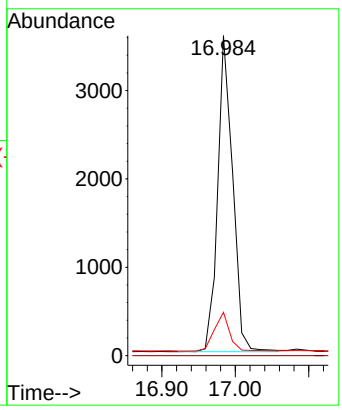


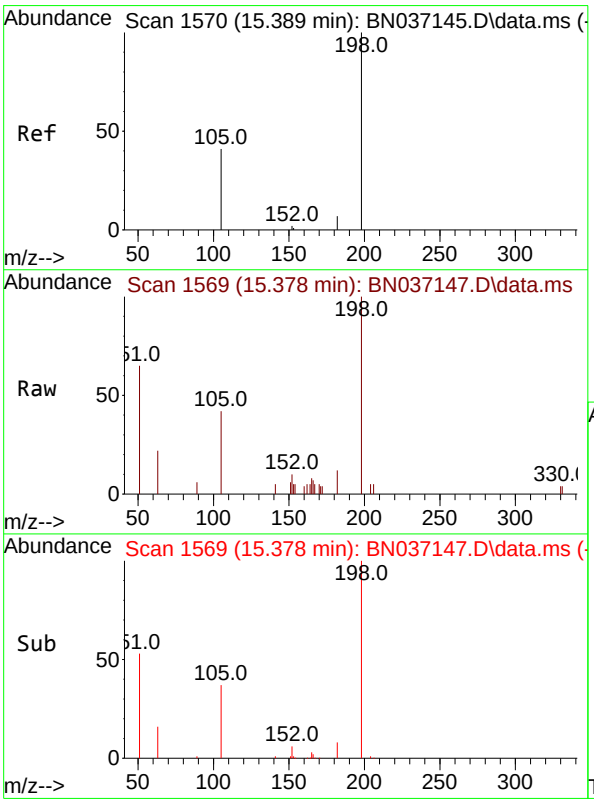
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 5057

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.6	11.3	16.9

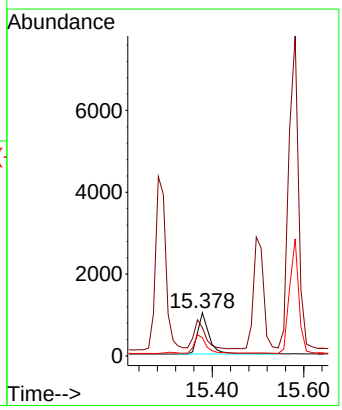


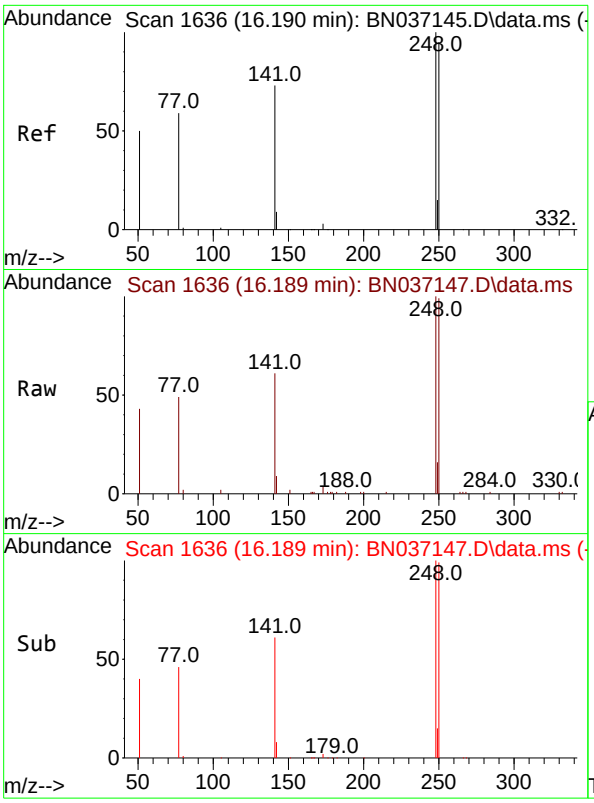


#20
4,6-Dinitro-2-methylphenol
Concen: 1.502 ng
RT: 15.378 min Scan# 1569
Delta R.T. -0.011 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:198 Resp: 1819

Ion	Ratio	Lower	Upper
198	100		
51	65.5	125.2	187.8#
105	42.0	57.1	85.7#



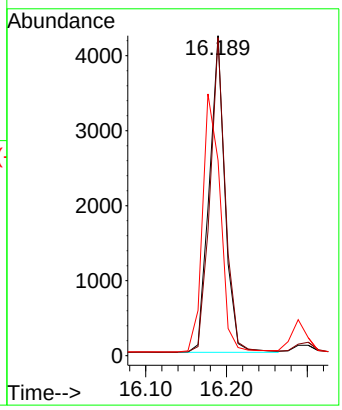


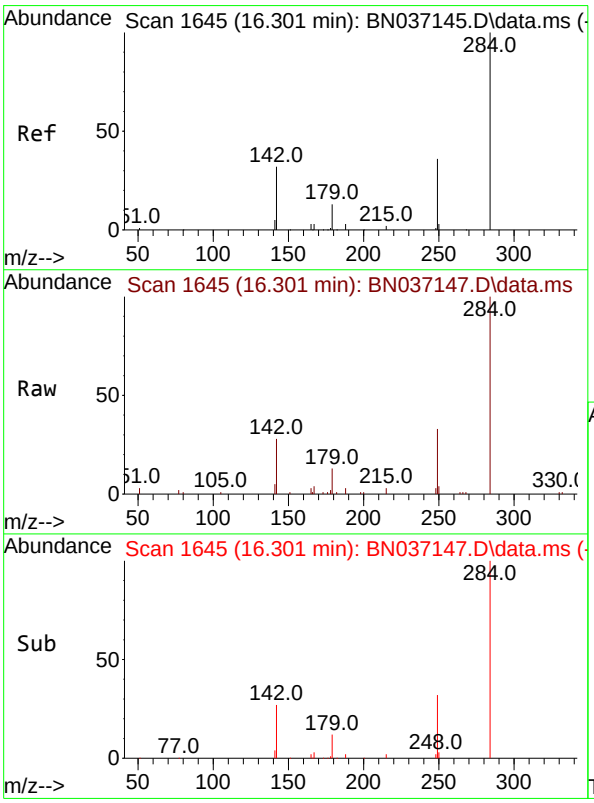
#21
4-Bromophenyl-phenylether
Concen: 1.717 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 5692

Ion	Ratio	Lower	Upper
248	100		
250	99.4	76.1	114.1
141	61.1	60.1	90.1

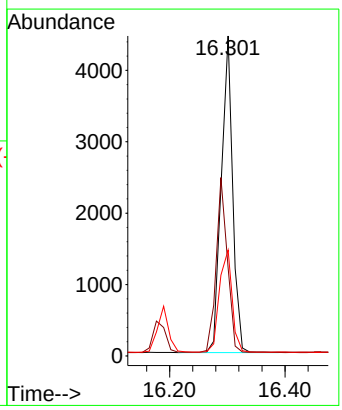


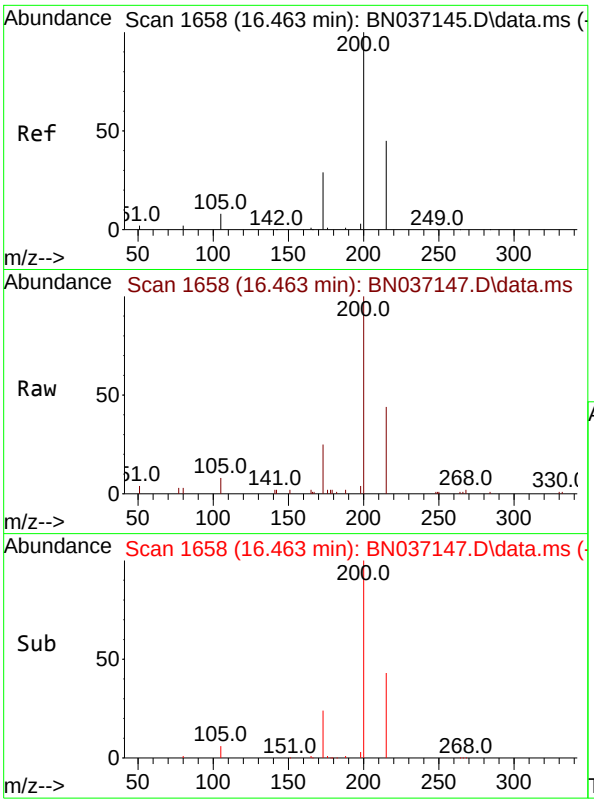


#22
Hexachlorobenzene
Concen: 1.703 ng
RT: 16.301 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:284 Resp: 6093

Ion	Ratio	Lower	Upper
284	100		
142	54.4	44.0	66.0
249	35.9	29.7	44.5



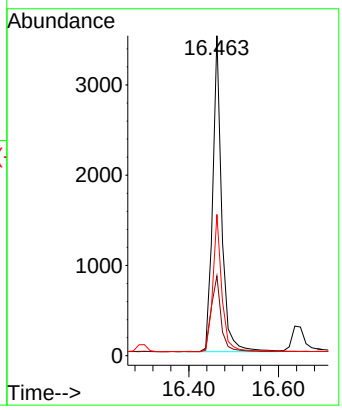


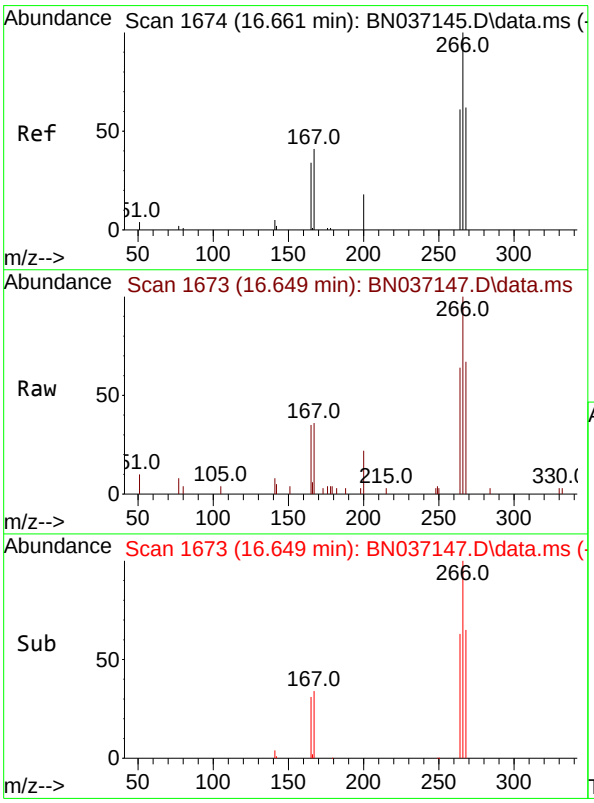
#23
Atrazine
Concen: 1.778 ng
RT: 16.463 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 4865

Ion	Ratio	Lower	Upper
200	100		
173	25.0	28.1	42.1#
215	44.1	39.3	58.9

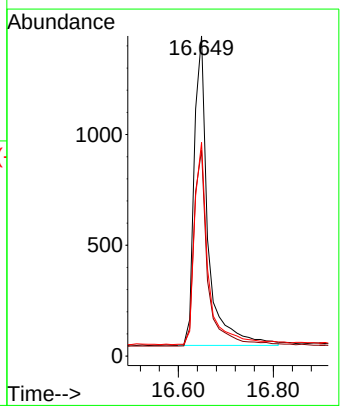


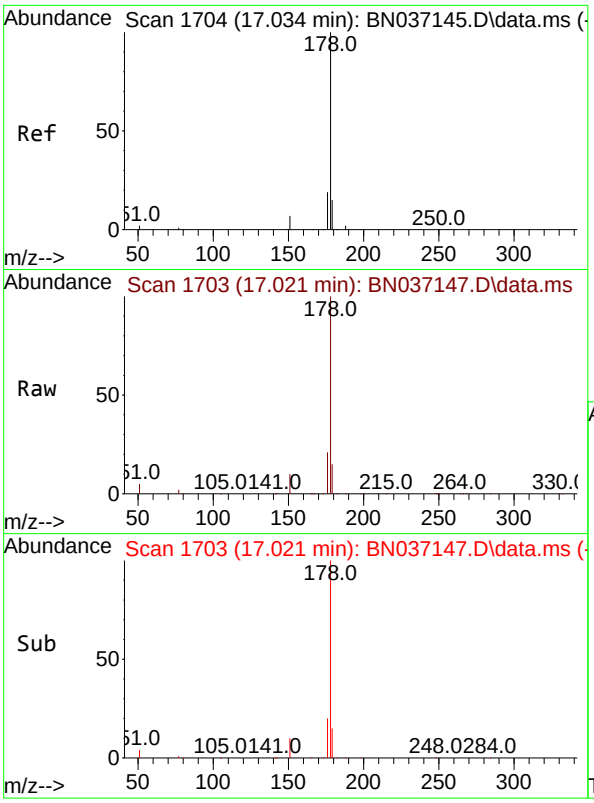


#24
Pentachlorophenol
Concen: 1.535 ng
RT: 16.649 min Scan# 1673
Delta R.T. -0.012 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:266 Resp: 2828

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.3	73.9
268	64.9	49.0	73.4



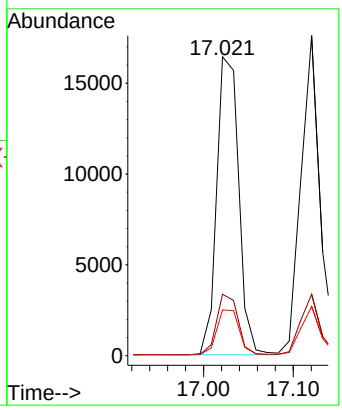


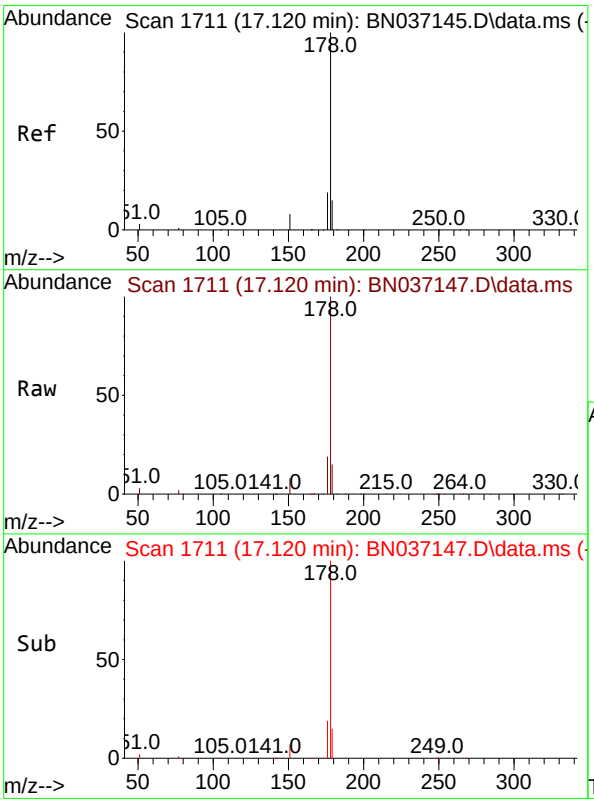
#25
Phenanthrene
Concen: 1.711 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 28034

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.2	12.3	18.5

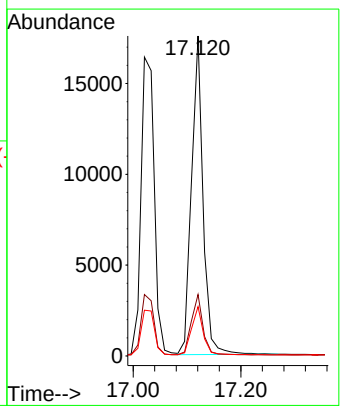


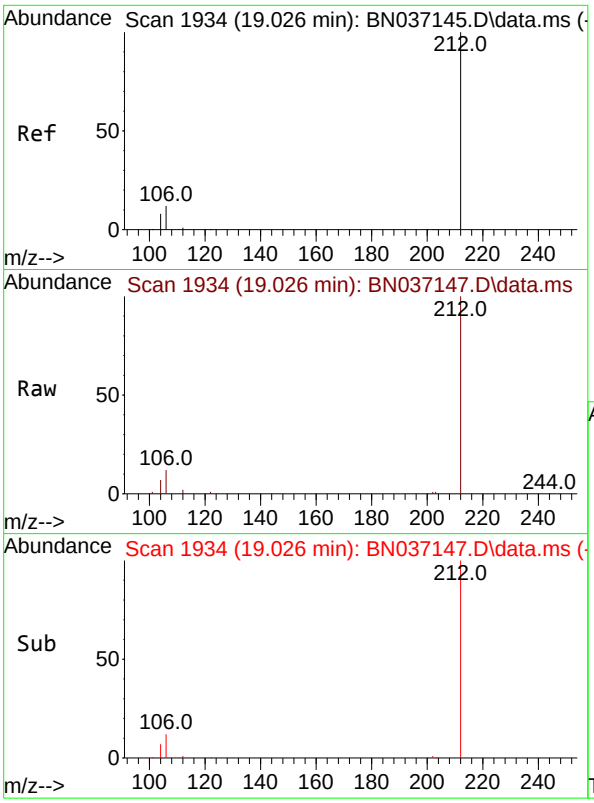


#26
Anthracene
Concen: 1.751 ng
RT: 17.120 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:178 Resp: 26183

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.2	12.9	19.3



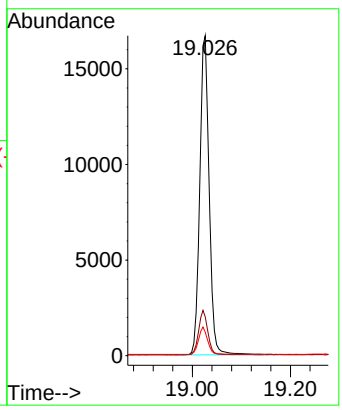


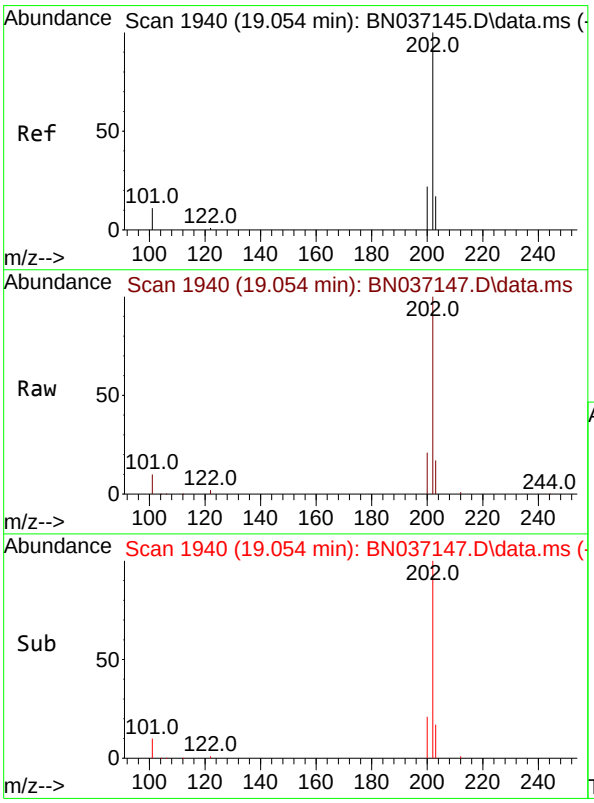
#27
Fluoranthene-d10
Concen: 1.720 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 22095

Ion	Ratio	Lower	Upper
212	100		
106	13.5	10.6	15.8
104	8.2	6.6	9.8

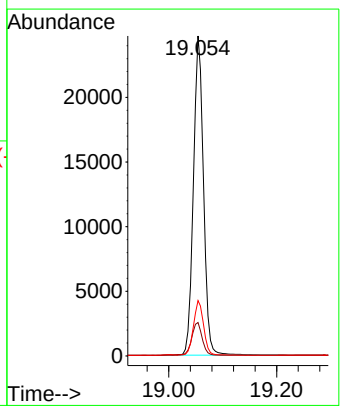


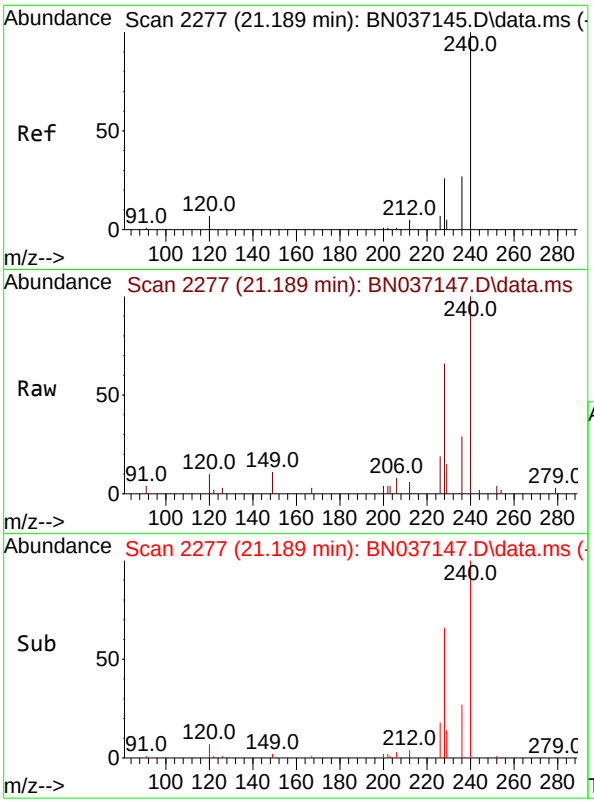


#28
Fluoranthene
Concen: 1.765 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:202 Resp: 31942

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.7	13.1
203	16.9	13.5	20.3



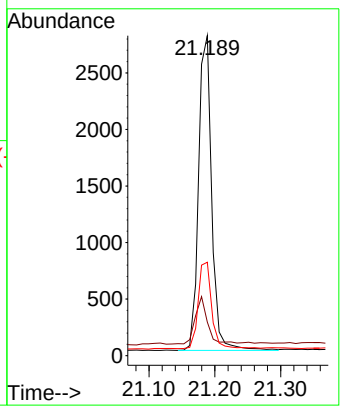


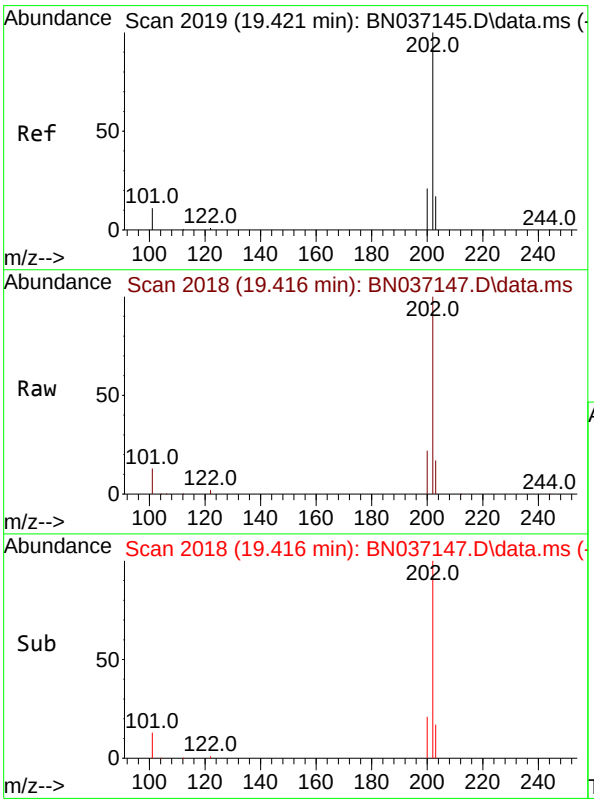
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 3873

Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.0	13.4
236	29.2	23.0	34.4

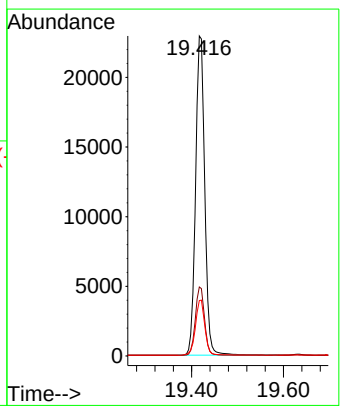


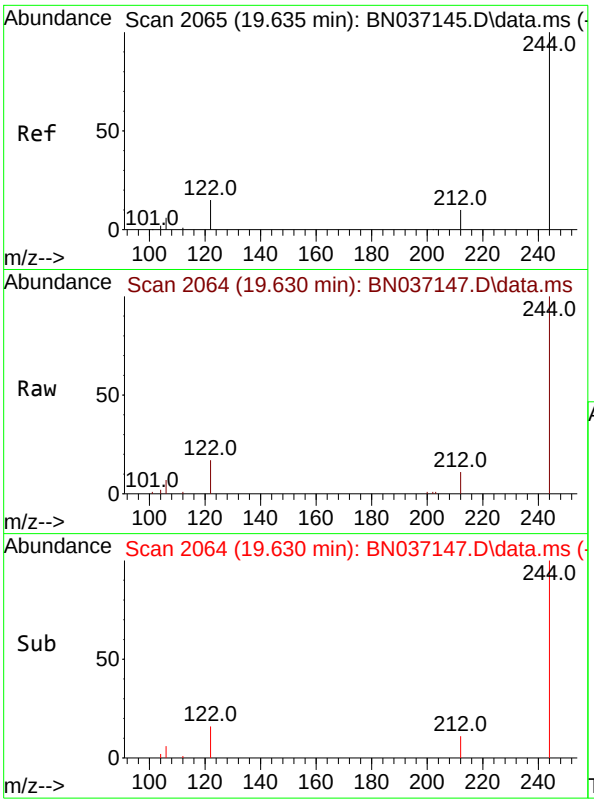


#30
Pyrene
Concen: 1.678 ng
RT: 19.416 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:202 Resp: 31728

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.6	14.2	21.4



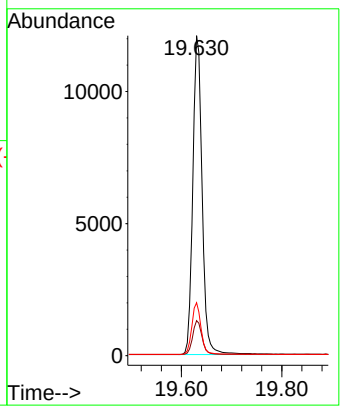


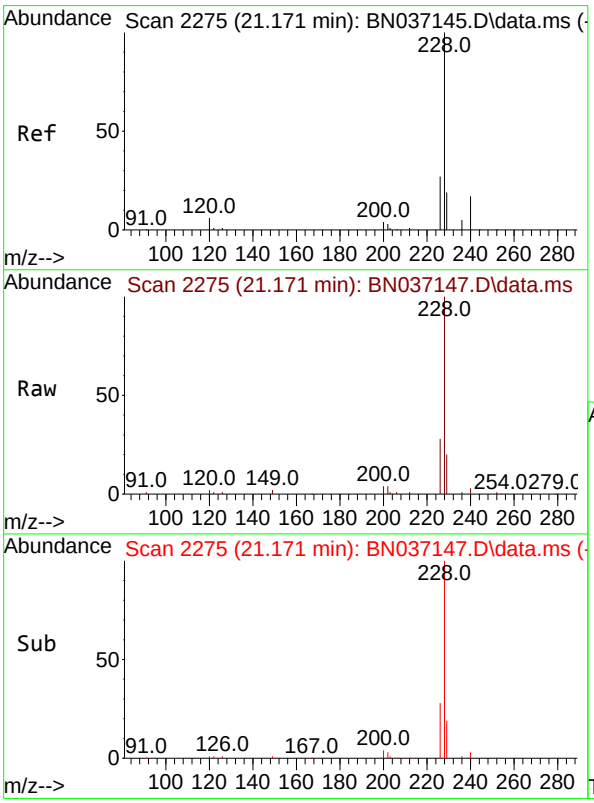
#31
Terphenyl-d14
Concen: 1.710 ng
RT: 19.630 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 15589

Ion	Ratio	Lower	Upper
244	100		
212	11.0	10.0	15.0
122	16.5	13.2	19.8

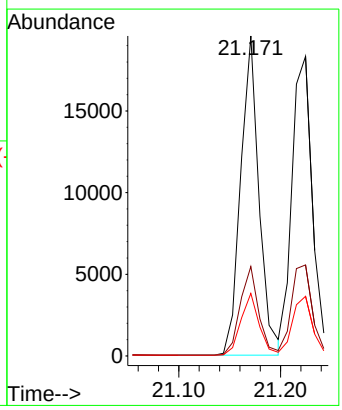


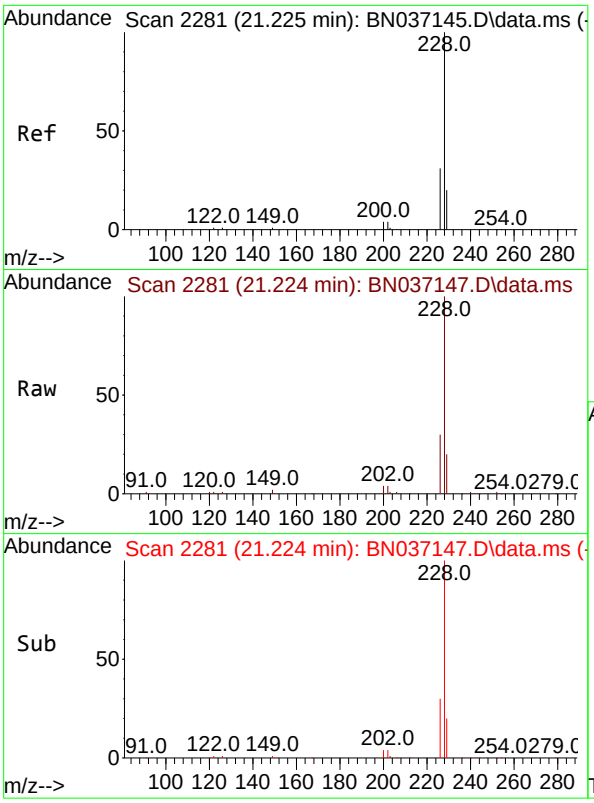


#32
Benzo(a)anthracene
Concen: 1.748 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:228 Resp: 24513

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	19.6	16.2	24.2



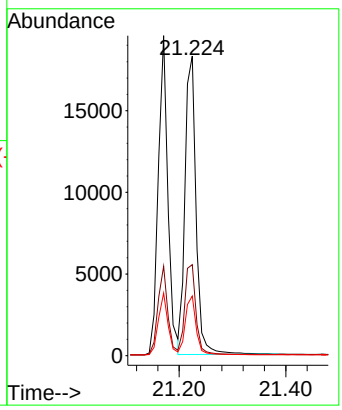


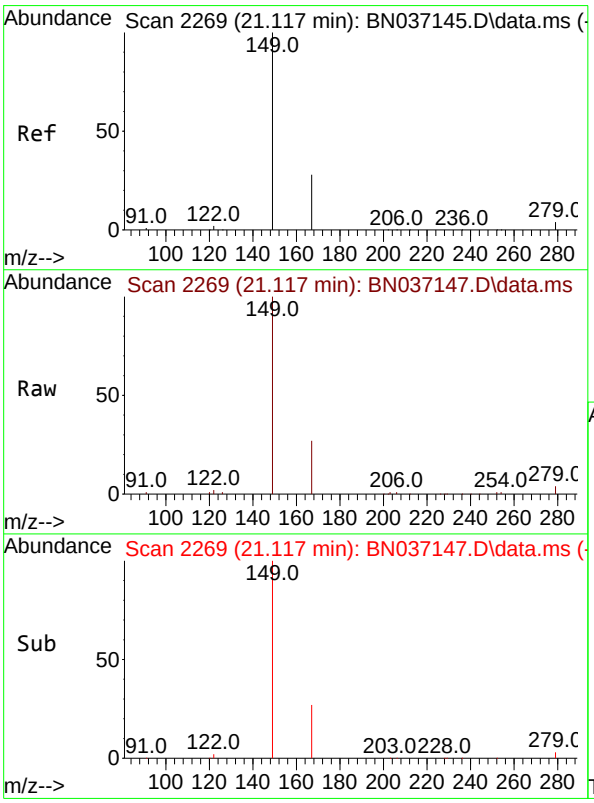
#33
Chrysene
Concen: 1.685 ng
RT: 21.224 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 26306

Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.2	37.8
229	19.9	16.8	25.2

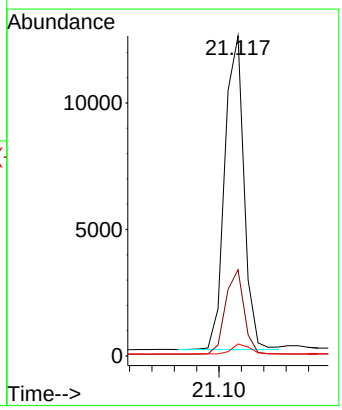


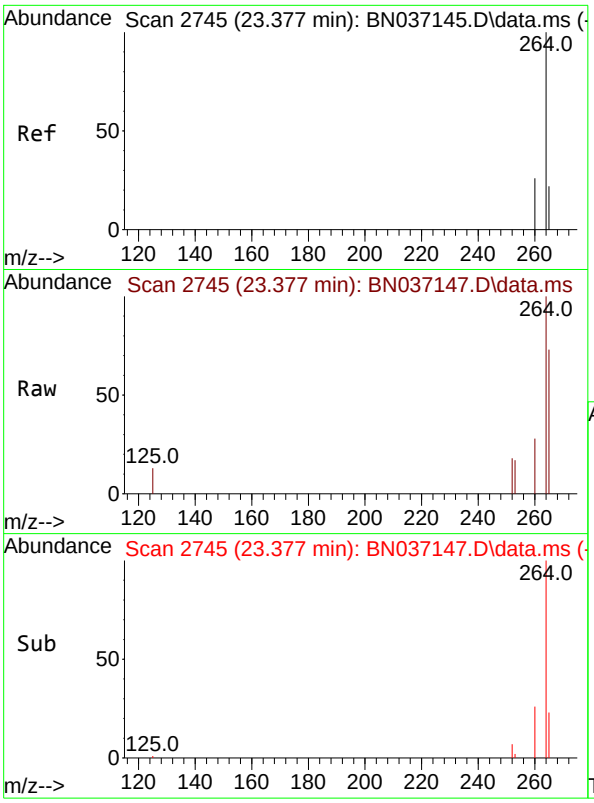


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.674 ng
RT: 21.117 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:149 Resp: 14807

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.0	31.4
279	3.0	2.9	4.3



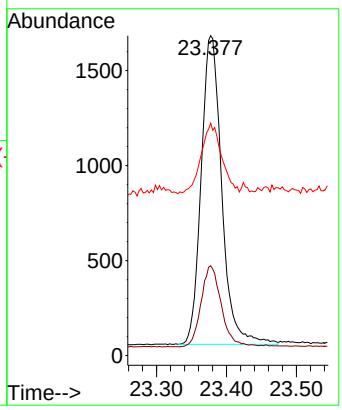


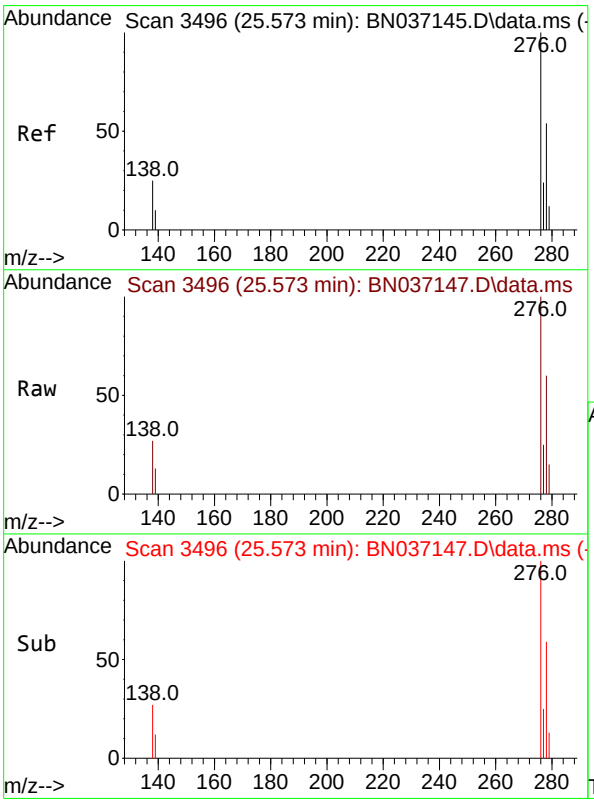
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.377 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 3320

Ion	Ratio	Lower	Upper
264	100		
260	28.1	22.1	33.1
265	72.6	55.8	83.8

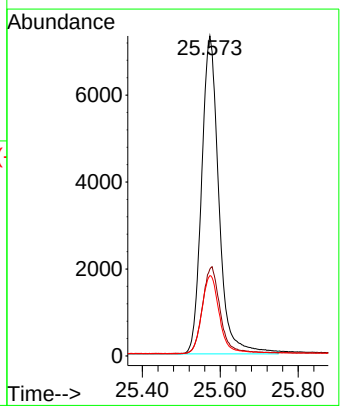


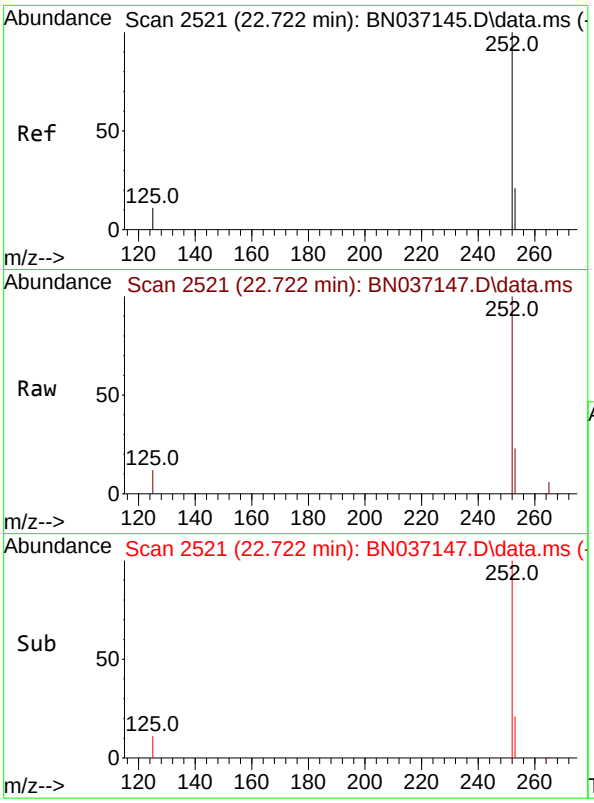


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.704 ng
RT: 25.573 min Scan# 3496
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:276 Resp: 22504

Ion	Ratio	Lower	Upper
276	100		
138	27.8	21.0	31.6
277	25.1	19.4	29.2



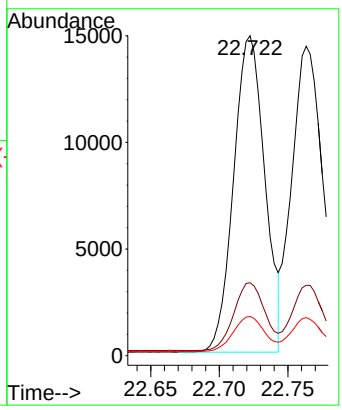


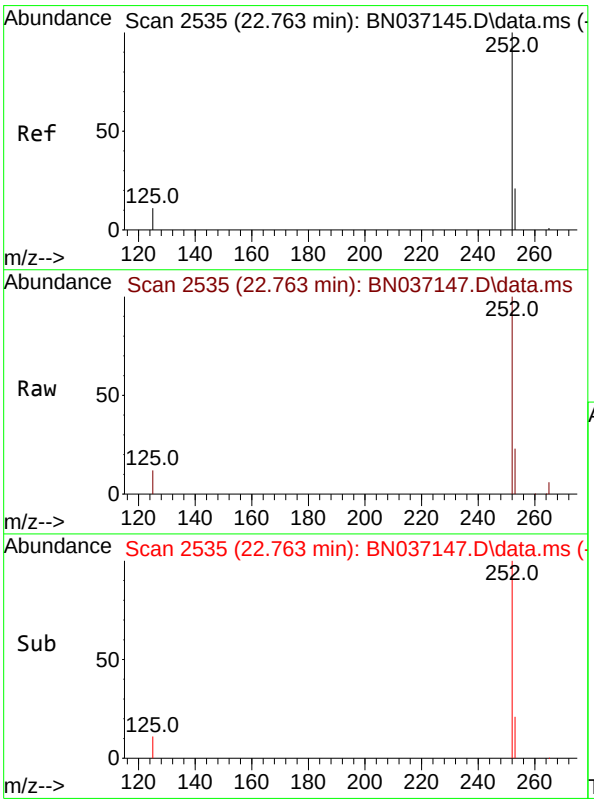
#37
Benzo(b)fluoranthene
Concen: 1.747 ng
RT: 22.722 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 23418

Ion	Ratio	Lower	Upper
252	100		
253	22.8	22.3	33.5
125	12.3	13.2	19.8#

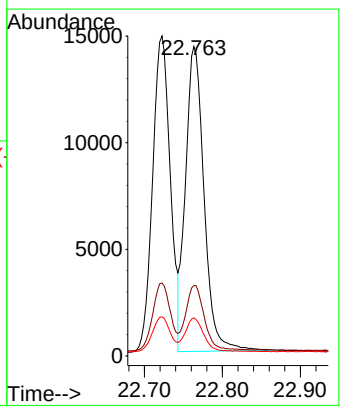


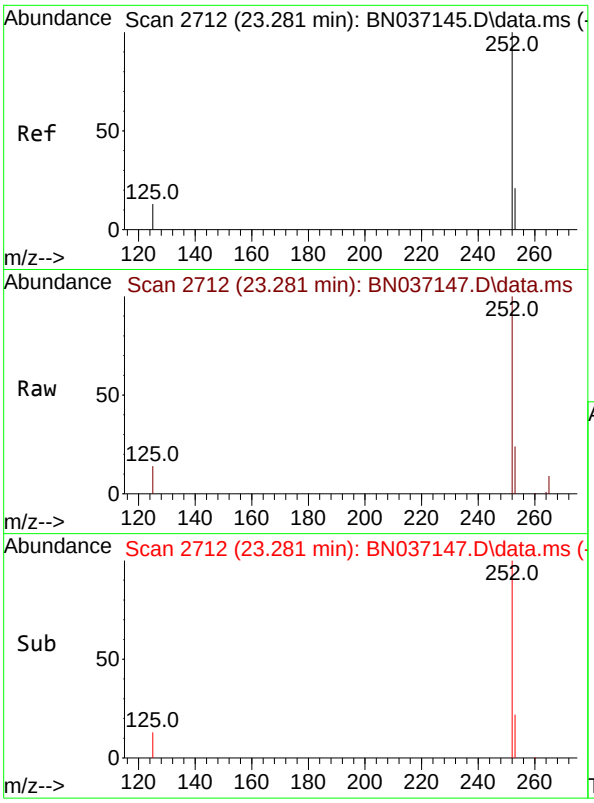


#38
Benzo(k)fluoranthene
Concen: 1.725 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:252 Resp: 23602

Ion	Ratio	Lower	Upper
252	100		
253	22.8	22.2	33.4
125	12.3	13.2	19.8#



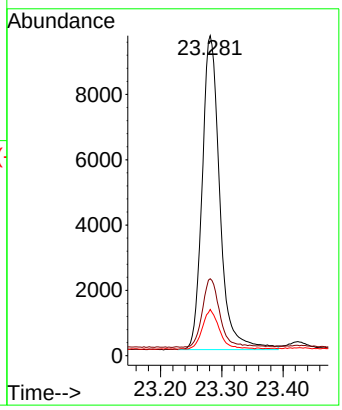


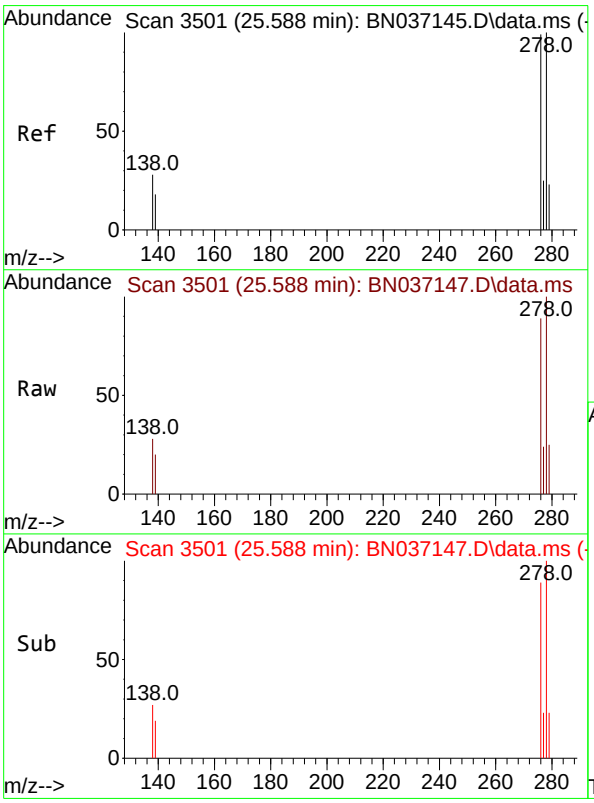
#39
Benzo(a)pyrene
Concen: 1.716 ng
RT: 23.281 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 19265

Ion	Ratio	Lower	Upper
252	100		
253	24.1	25.0	37.4#
125	14.4	17.0	25.6#

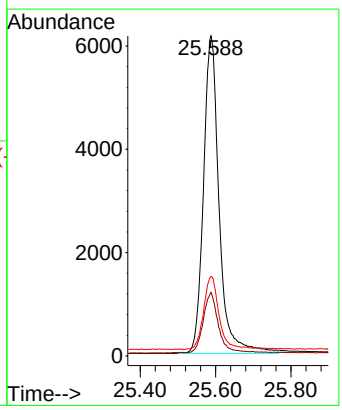


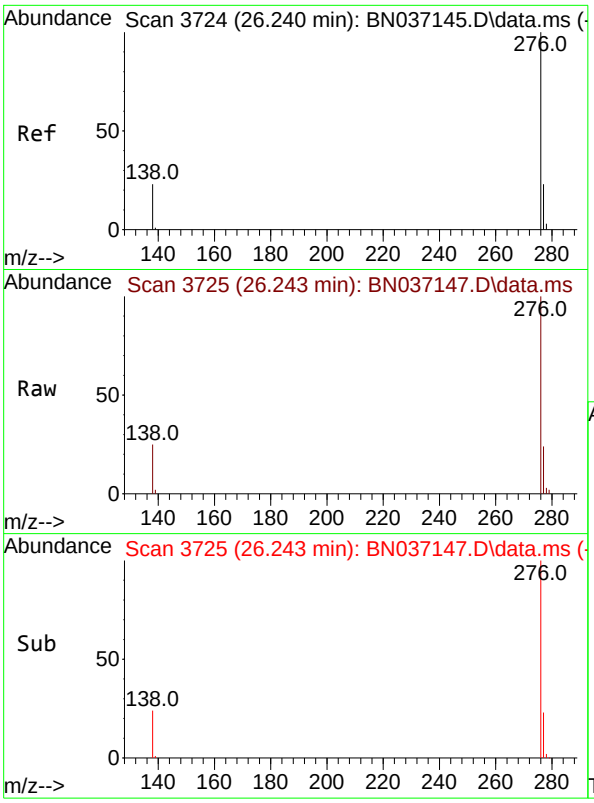


#40
Dibenzo(a,h)anthracene
Concen: 1.738 ng
RT: 25.588 min Scan# 3501
Delta R.T. -0.000 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Tgt Ion:278 Resp: 17700

Ion	Ratio	Lower	Upper
278	100		
139	19.9	17.6	26.4
279	24.9	26.0	39.0#



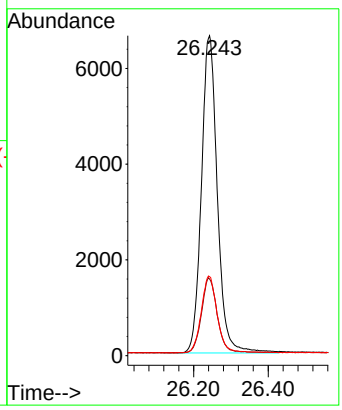


#41
Benzo(g,h,i)perylene
Concen: 1.677 ng
RT: 26.243 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037147.D
Acq: 03 Jun 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 19619

Ion	Ratio	Lower	Upper
276	100		
277	24.0	20.9	31.3
138	24.7	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037148.D
Acq On : 03 Jun 2025 14:38
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 04 01:43:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.589	152	2082	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	5272	0.400	ng		0.00
13) Acenaphthene-d10	14.234	164	3042	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	5757	0.400	ng		0.00
29) Chrysene-d12	21.180	240	4564	0.400	ng	#	0.00
35) Perylene-d12	23.377	264	3760	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	16397	3.185	ng		0.00
5) Phenol-d6	6.766	99	21011	3.367	ng		0.00
8) Nitrobenzene-d5	8.739	82	18977	3.412	ng		0.00
11) 2-Methylnaphthalene-d10	11.965	152	24344	3.317	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	4423	3.611	ng		-0.01
15) 2-Fluorobiphenyl	12.858	172	41512	3.201	ng		0.00
27) Fluoranthene-d10	19.026	212	49341	3.373	ng		0.00
31) Terphenyl-d14	19.630	244	34773	3.237	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.119	88	7944	2.862	ng		97
3) n-Nitrosodimethylamine	3.429	42	17675	3.172	ng	#	98
6) bis(2-Chloroethyl)ether	7.026	93	19085	3.205	ng		96
9) Naphthalene	10.415	128	49155	3.232	ng		97
10) Hexachlorobutadiene	10.714	225	10373	3.131	ng	#	99
12) 2-Methylnaphthalene	12.041	142	33014	3.386	ng		96
16) Acenaphthylene	13.956	152	49883	3.345	ng		99
17) Acenaphthene	14.299	154	31857	3.290	ng		98
18) Fluorene	15.293	166	42258	3.320	ng		99
20) 4,6-Dinitro-2-methylph...	15.378	198	4695	3.058	ng	#	35
21) 4-Bromophenyl-phenylether	16.189	248	12710	3.369	ng	#	89
22) Hexachlorobenzene	16.301	284	13101	3.217	ng		98
23) Atrazine	16.462	200	10979	3.524	ng	#	87
24) Pentachlorophenol	16.649	266	7055	3.108	ng		98
25) Phenanthrene	17.033	178	62481	3.350	ng		100
26) Anthracene	17.120	178	59394	3.490	ng		99
28) Fluoranthene	19.054	202	72004	3.495	ng		100
30) Pyrene	19.416	202	71397	3.205	ng		100
32) Benzo(a)anthracene	21.171	228	56691	3.431	ng		98
33) Chrysene	21.215	228	57833	3.144	ng		98
34) Bis(2-ethylhexyl)phtha...	21.117	149	33369	3.201	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.573	276	50327	3.364	ng		97
37) Benzo(b)fluoranthene	22.722	252	51531	3.395	ng	#	89
38) Benzo(k)fluoranthene	22.763	252	52430	3.384	ng	#	89
39) Benzo(a)pyrene	23.281	252	42893	3.374	ng	#	84
40) Dibenzo(a,h)anthracene	25.587	278	40079	3.474	ng	#	89
41) Benzo(g,h,i)perylene	26.239	276	42842	3.233	ng		96

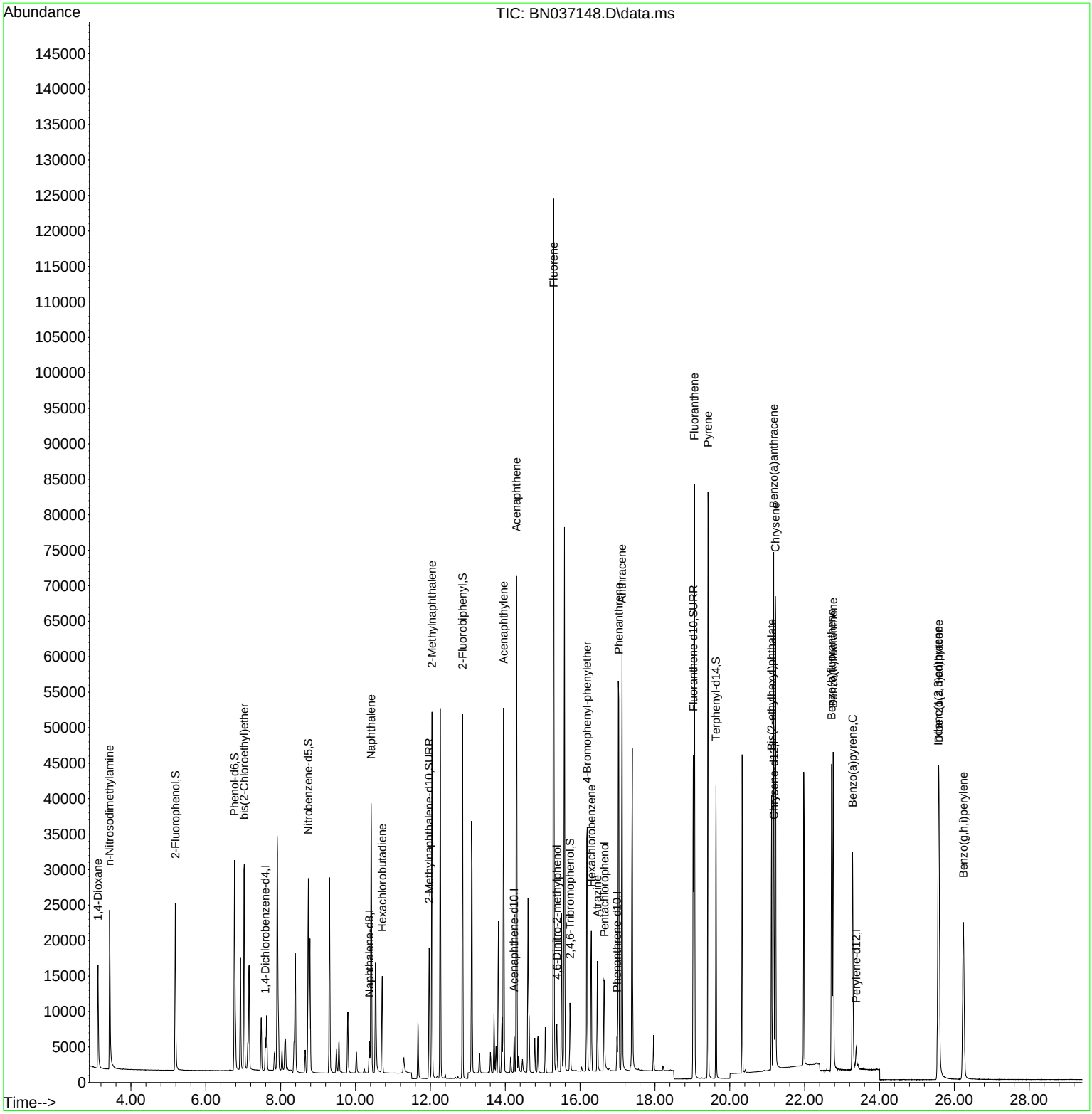
(#) = qualifier out of range (m) = manual integration (+) = signals summed

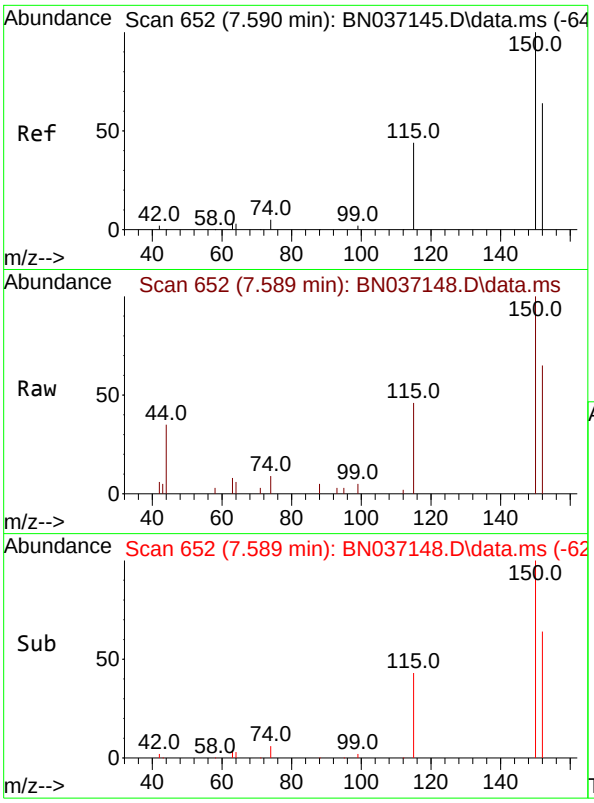
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037148.D
Acq On : 03 Jun 2025 14:38
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 04 01:43:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration



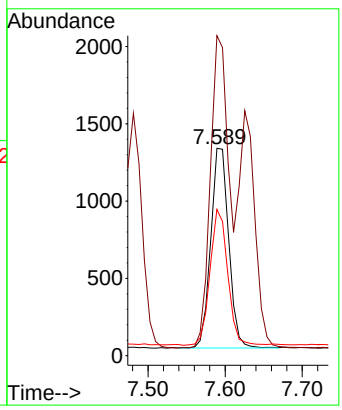


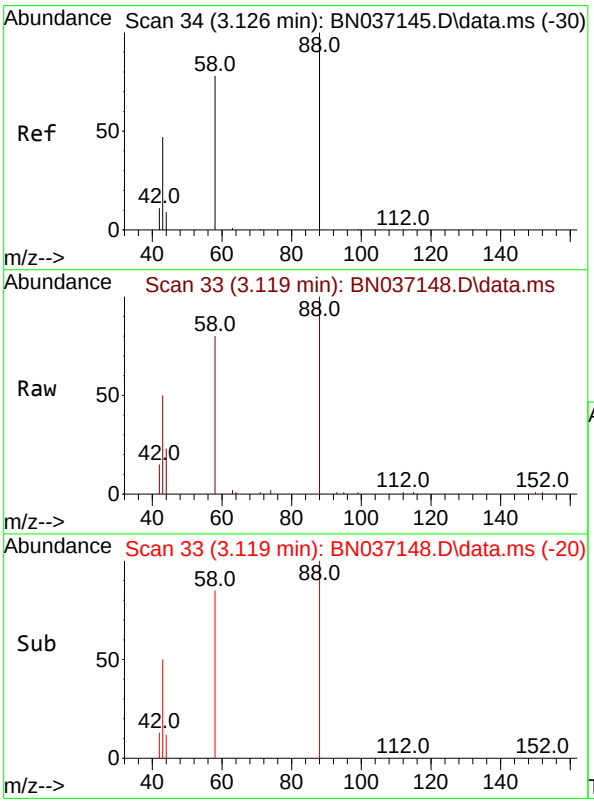
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2082

Ion	Ratio	Lower	Upper
152	100		
150	154.4	123.2	184.8
115	70.5	56.6	85.0

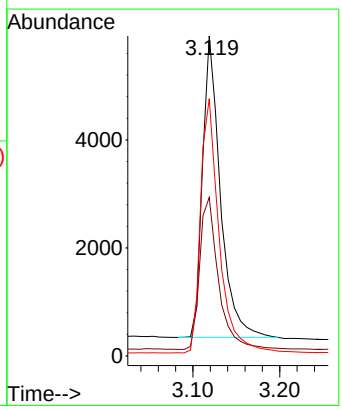


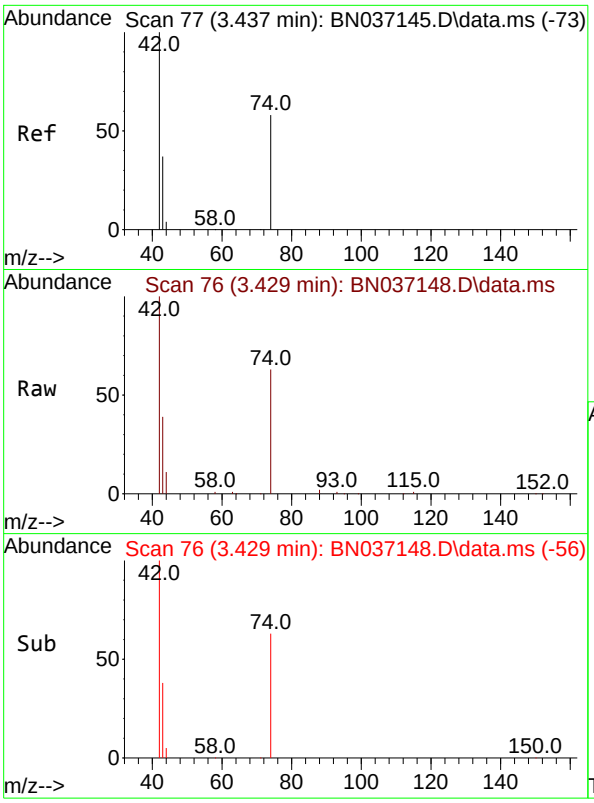


#2
1,4-Dioxane
Concen: 2.862 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion: 88 Resp: 7944

Ion	Ratio	Lower	Upper
88	100		
43	53.4	43.5	65.3
58	88.6	67.7	101.5



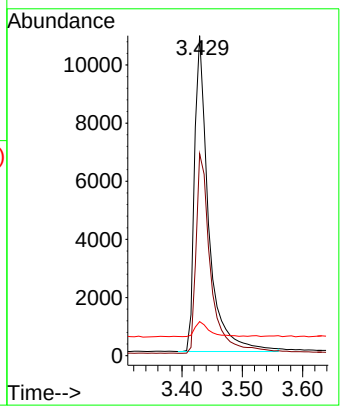


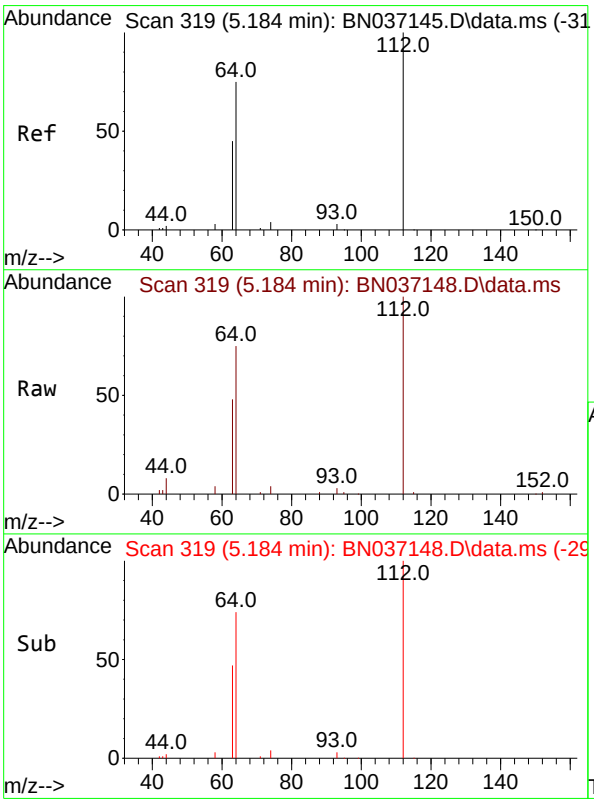
#3
n-Nitrosodimethylamine
Concen: 3.172 ng
RT: 3.429 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 17675

Ion	Ratio	Lower	Upper
42	100		
74	65.5	53.0	79.4
44	4.8	5.9	8.9#

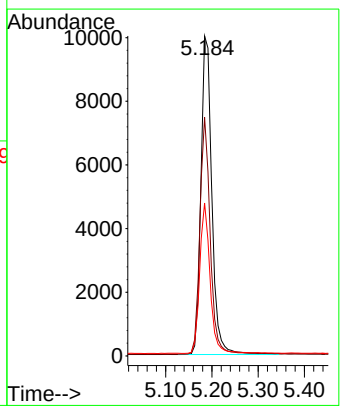


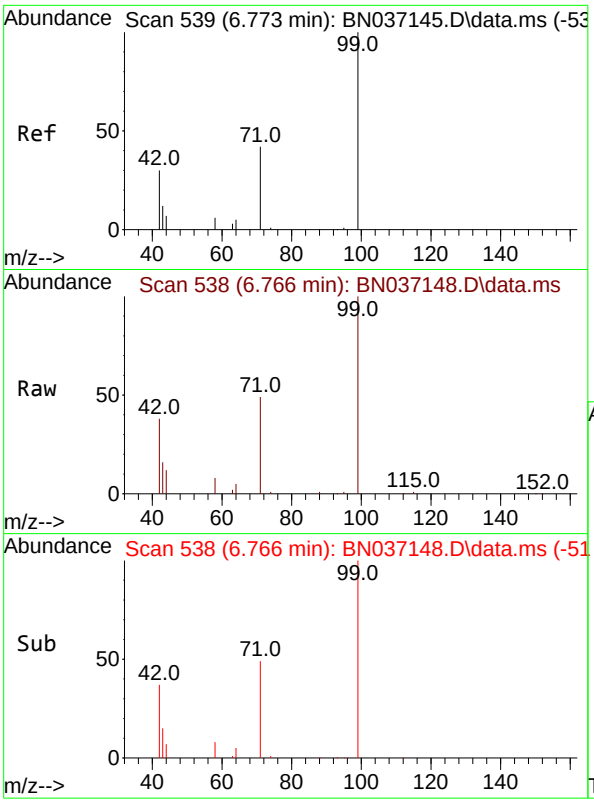


#4
2-Fluorophenol
Concen: 3.185 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:112 Resp: 16397

Ion	Ratio	Lower	Upper
112	100		
64	70.6	56.3	84.5
63	45.1	36.2	54.4



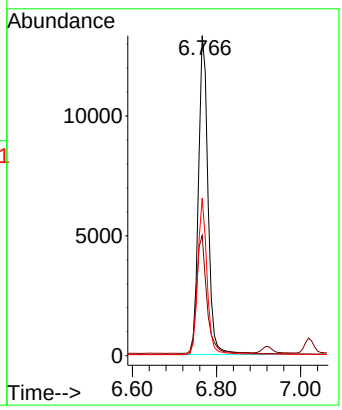


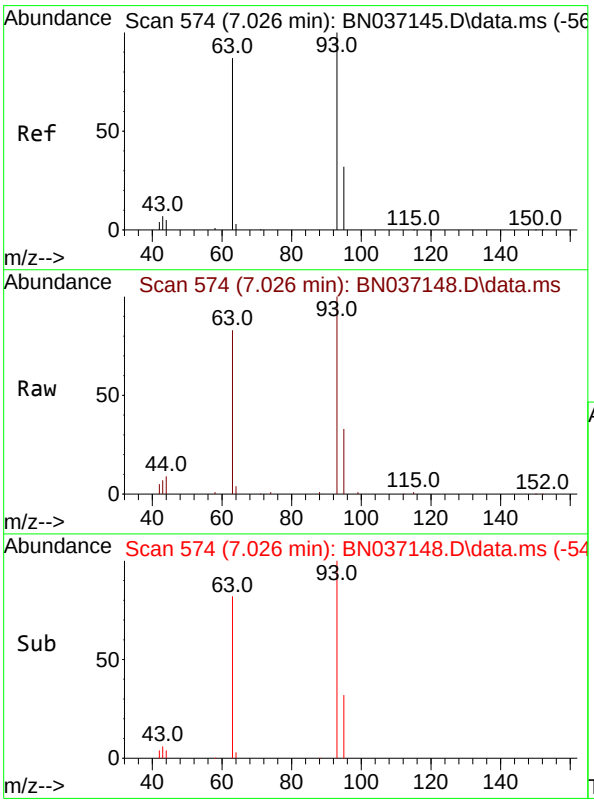
#5
Phenol-d6
Concen: 3.367 ng
RT: 6.766 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 21011

Ion	Ratio	Lower	Upper
99	100		
42	39.5	31.3	46.9
71	47.7	38.2	57.2

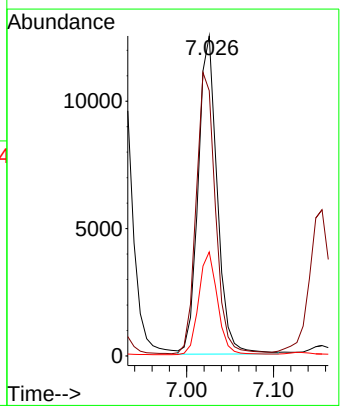


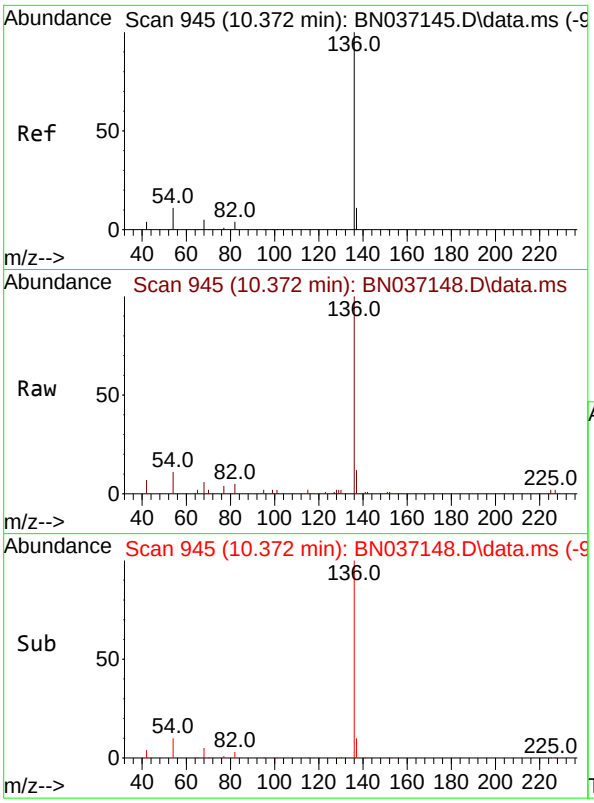


#6
bis(2-Chloroethyl)ether
Concen: 3.205 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion: 93 Resp: 19085

Ion	Ratio	Lower	Upper
93	100		
63	89.3	68.6	103.0
95	31.8	24.3	36.5



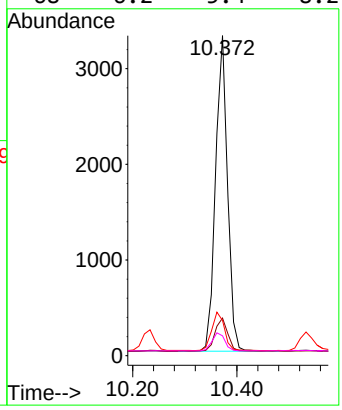


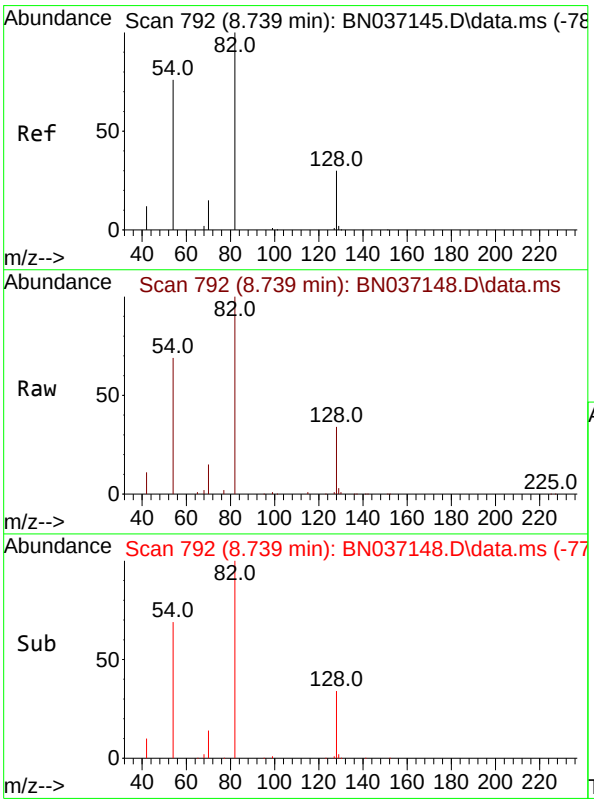
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5272

Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.7	14.5
54	11.0	9.7	14.5
68	6.2	5.4	8.2

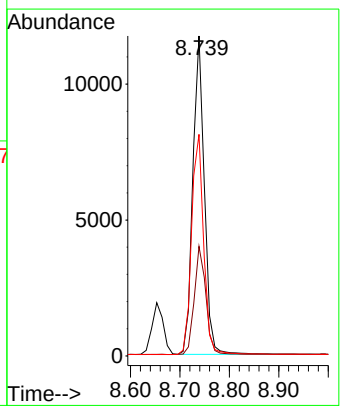


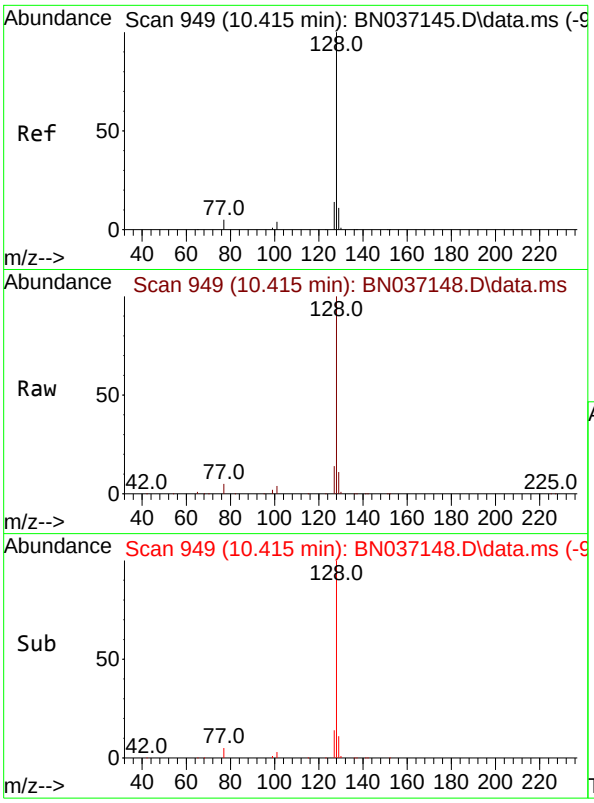


#8
Nitrobenzene-d5
Concen: 3.412 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion: 82 Resp: 18977

Ion	Ratio	Lower	Upper
82	100		
128	34.3	26.9	40.3
54	69.2	61.4	92.2



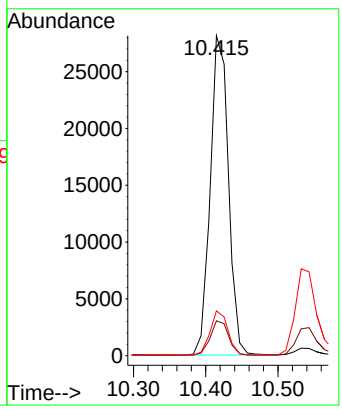


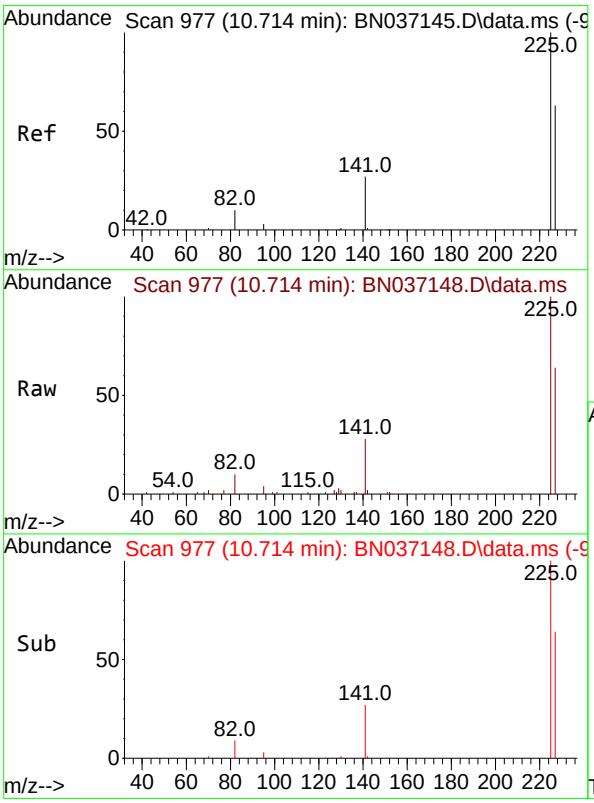
#9
Naphthalene
Concen: 3.232 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 49155

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.8
127	14.0	12.3	18.5

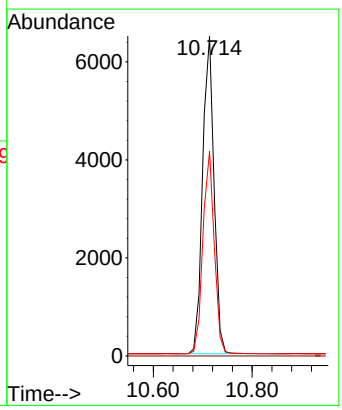


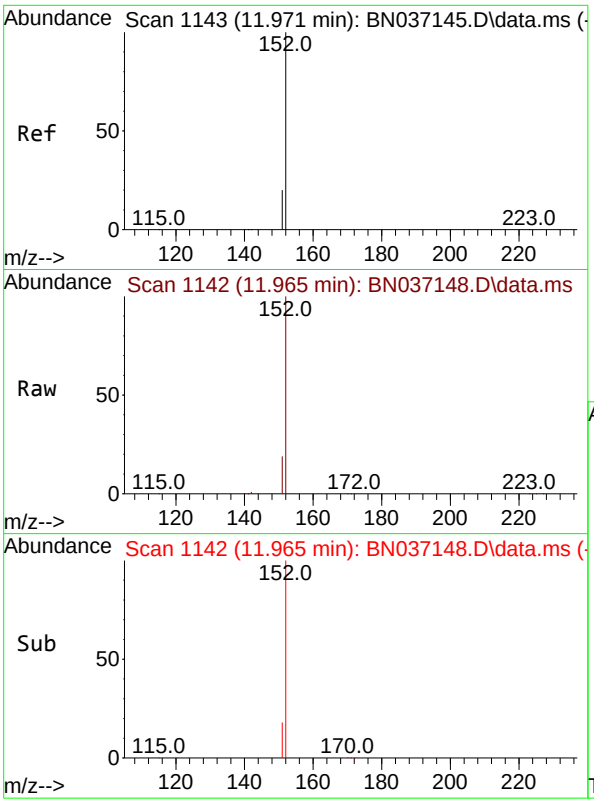


#10
Hexachlorobutadiene
Concen: 3.131 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:225 Resp: 10373

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



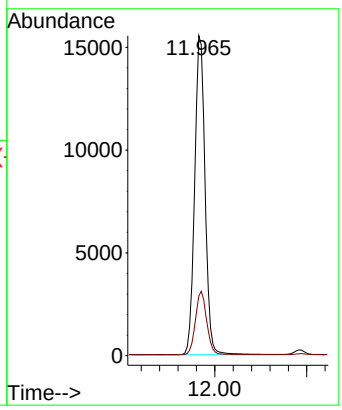


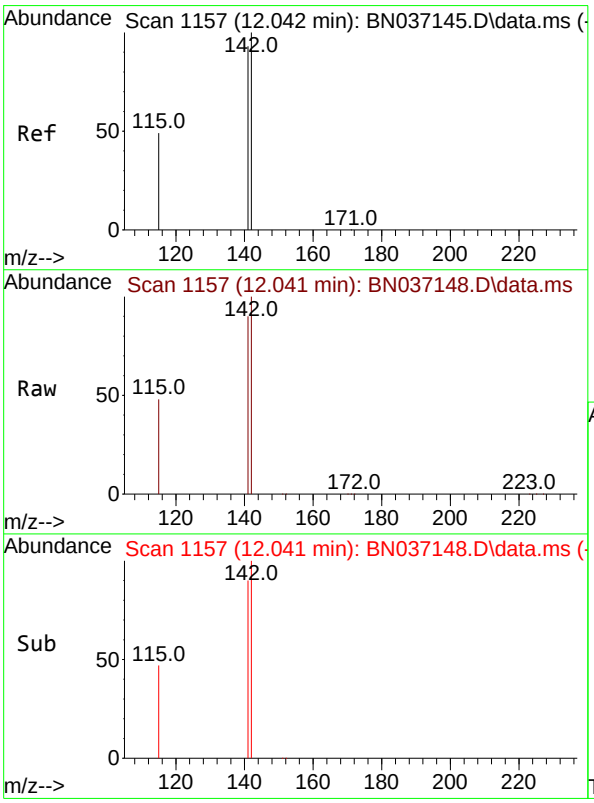
#11
2-Methylnaphthalene-d10
Concen: 3.317 ng
RT: 11.965 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 24344

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.1	25.7

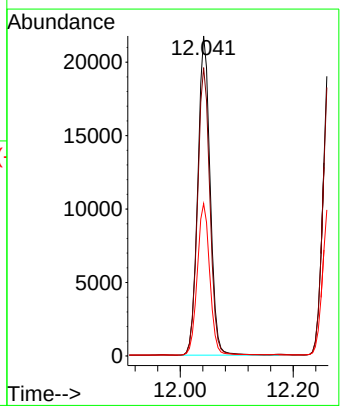


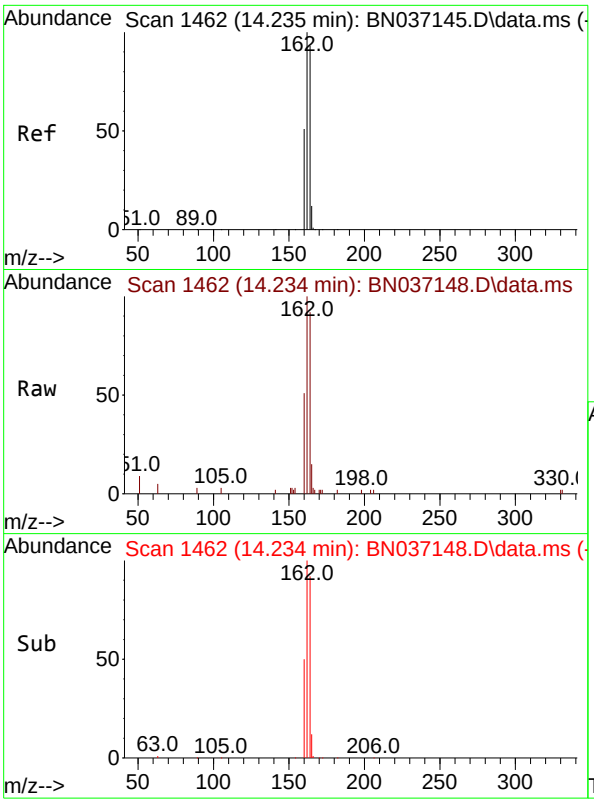


#12
2-Methylnaphthalene
Concen: 3.386 ng
RT: 12.041 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:142 Resp: 33014

Ion	Ratio	Lower	Upper
142	100		
141	90.1	74.6	111.8
115	47.6	41.0	61.4



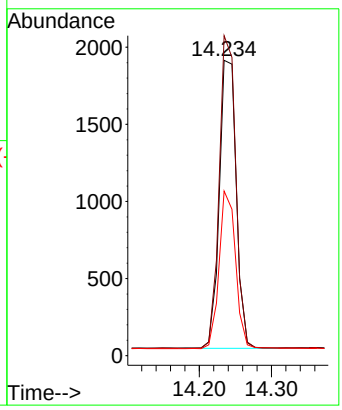


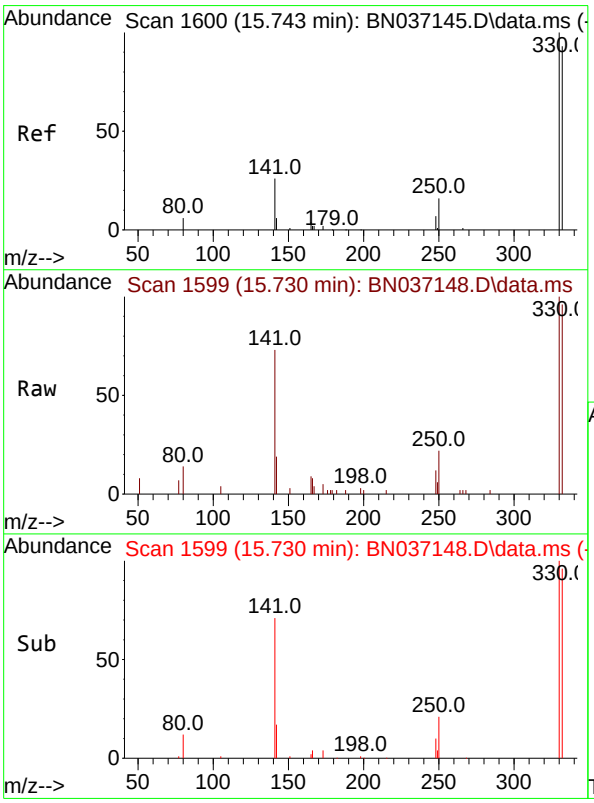
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 3042

Ion	Ratio	Lower	Upper
164	100		
162	108.4	85.5	128.3
160	55.8	44.6	67.0

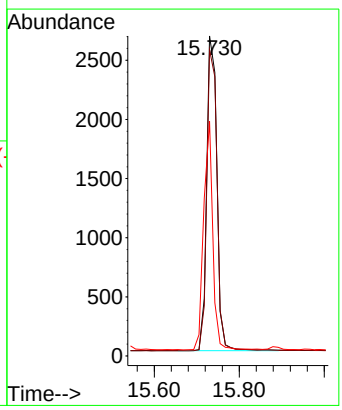


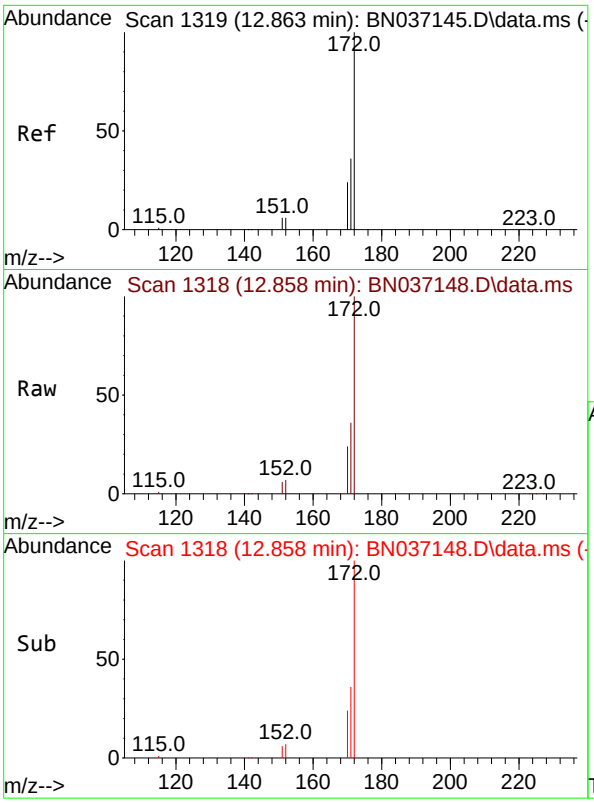


#14
2,4,6-Tribromophenol
Concen: 3.611 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.013 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:330 Resp: 4423

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.1	115.7
141	65.0	46.4	69.6



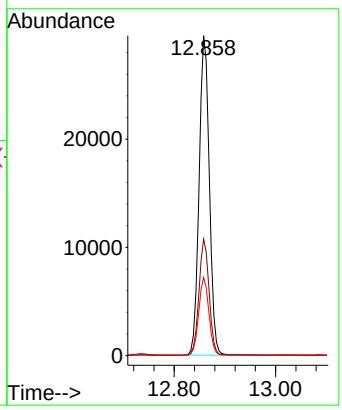


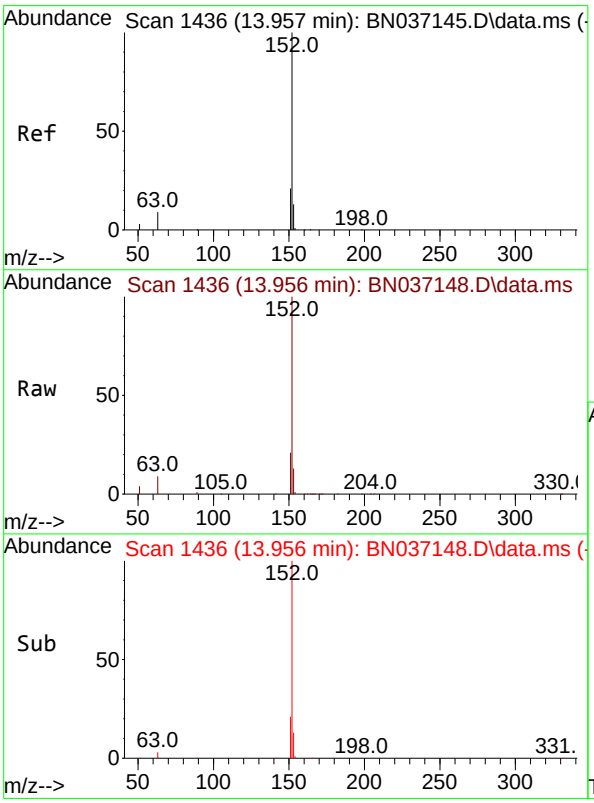
#15
2-Fluorobiphenyl
Concen: 3.201 ng
RT: 12.858 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 41512

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.6	44.4
170	24.5	20.3	30.5

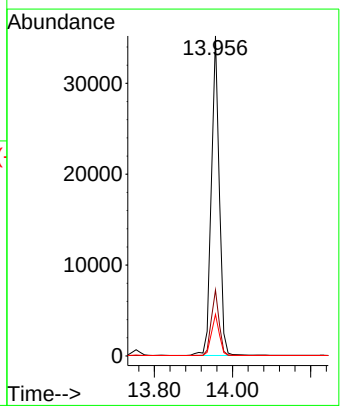


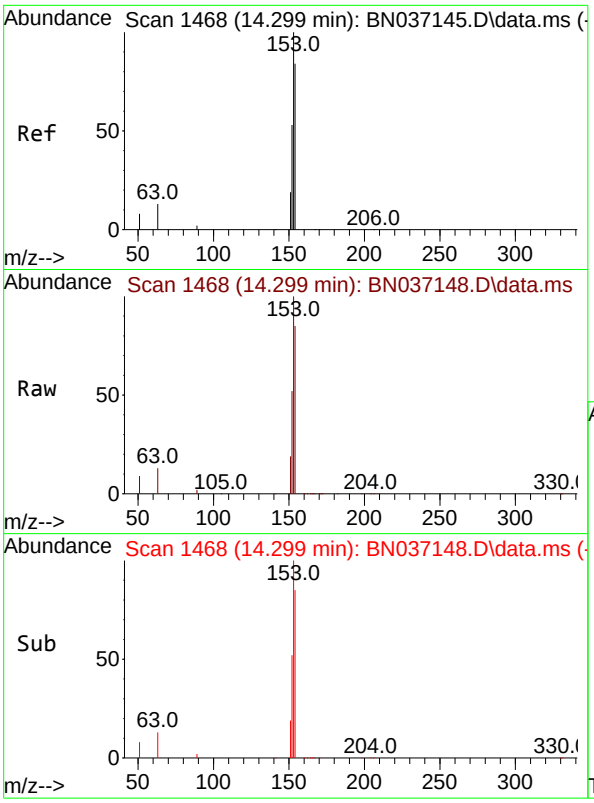


#16
Acenaphthylene
Concen: 3.345 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:152 Resp: 49883

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	12.9	10.6	15.8



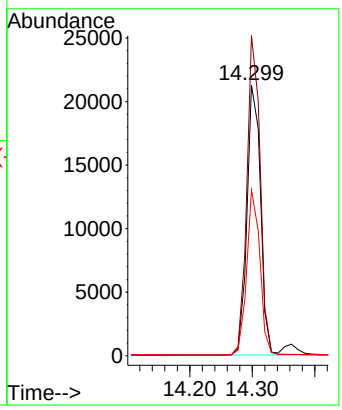


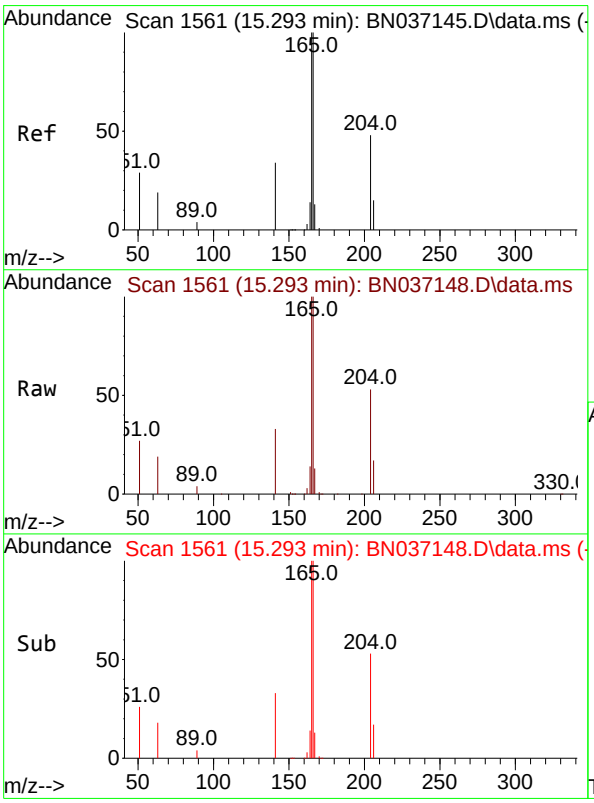
#17
Acenaphthene
Concen: 3.290 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 31857

Ion	Ratio	Lower	Upper
154	100		
153	116.6	93.8	140.8
152	59.9	50.5	75.7

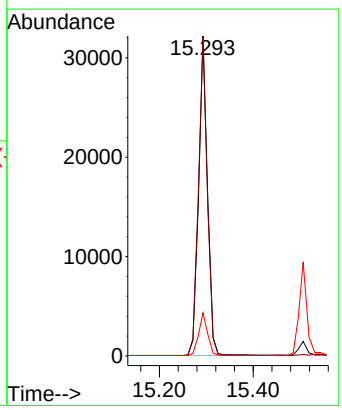


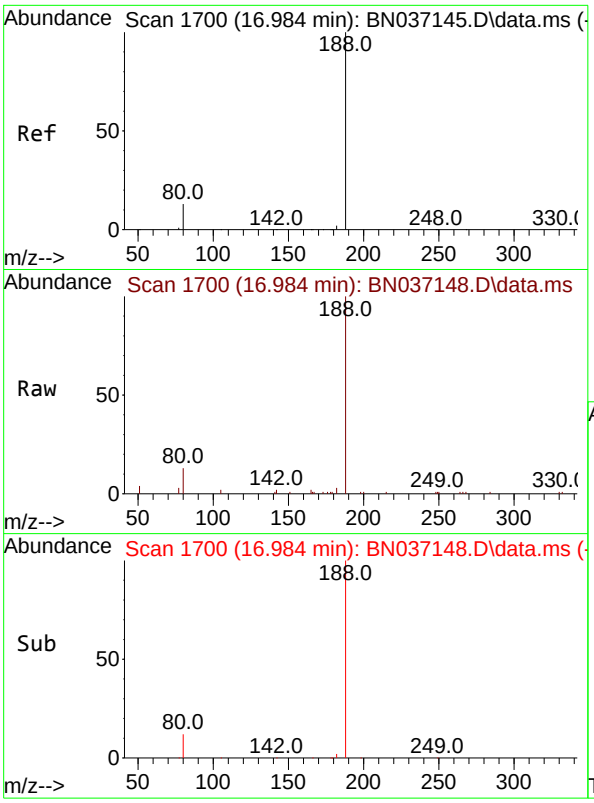


#18
Fluorene
Concen: 3.320 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:166 Resp: 42258

Ion	Ratio	Lower	Upper
166	100		
165	99.8	81.1	121.7
167	13.3	10.8	16.2



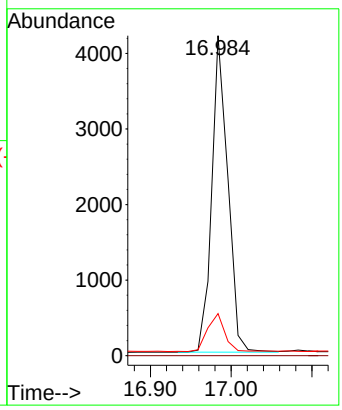


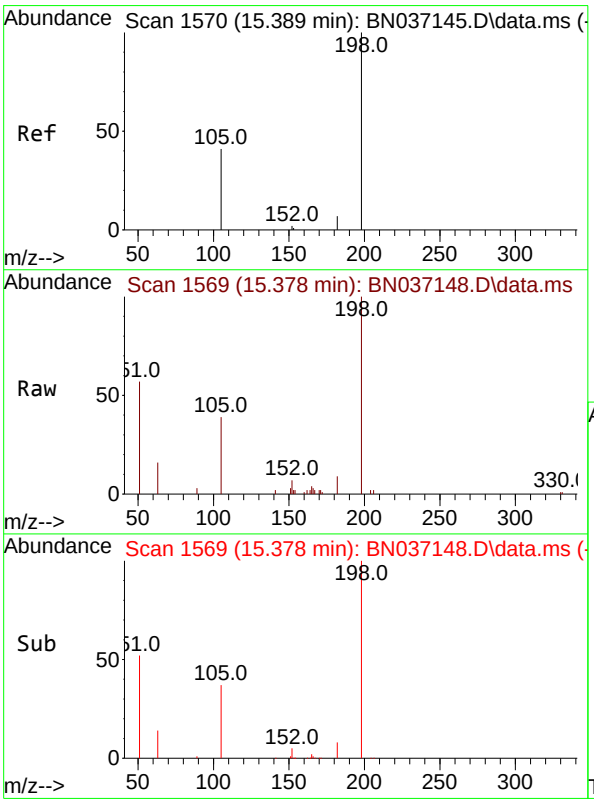
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 5757

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.1	11.3	16.9

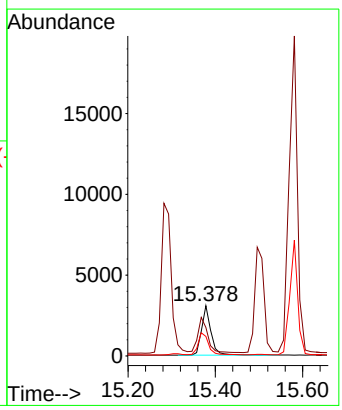


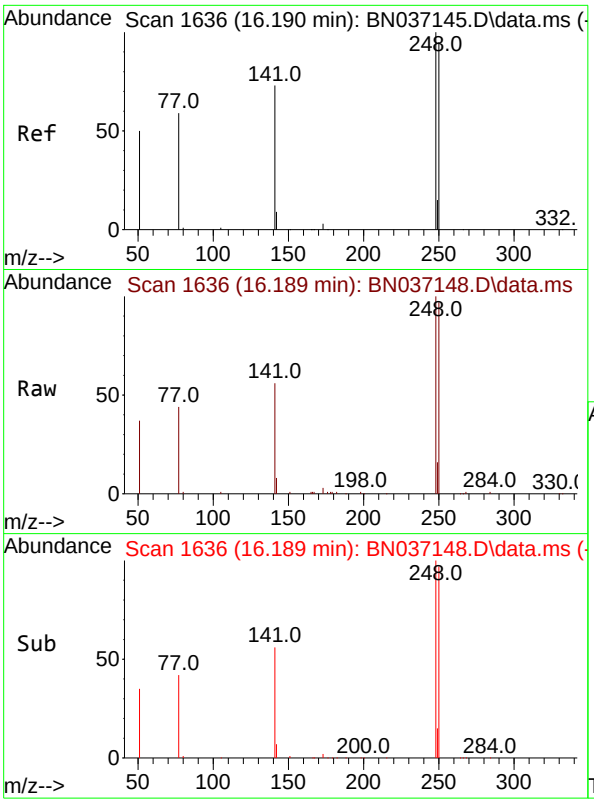


#20
4,6-Dinitro-2-methylphenol
Concen: 3.058 ng
RT: 15.378 min Scan# 1569
Delta R.T. -0.011 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:198 Resp: 4695

Ion	Ratio	Lower	Upper
198	100		
51	56.8	125.2	187.8#
105	38.9	57.1	85.7#



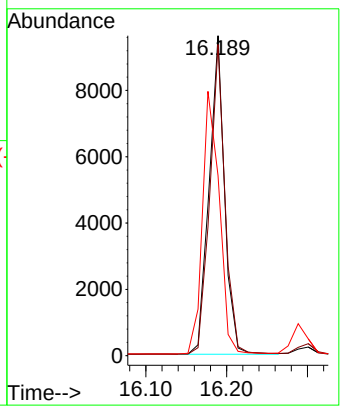


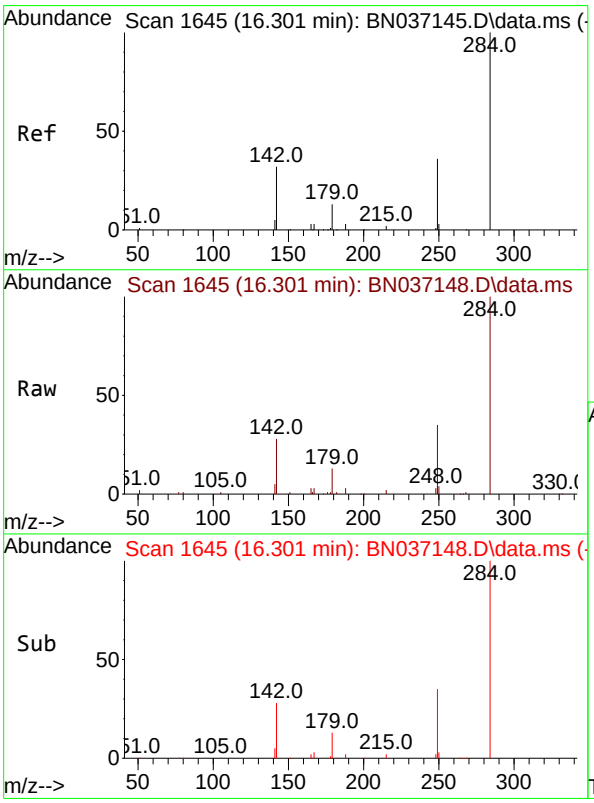
#21
4-Bromophenyl-phenylether
Concen: 3.369 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 12710

Ion	Ratio	Lower	Upper
248	100		
250	97.3	76.1	114.1
141	56.2	60.1	90.1#

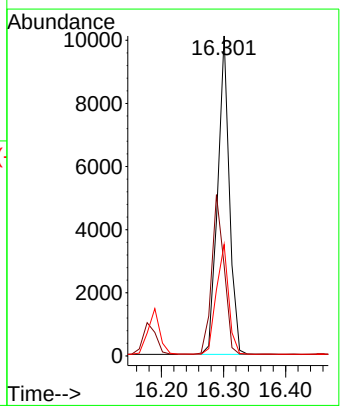


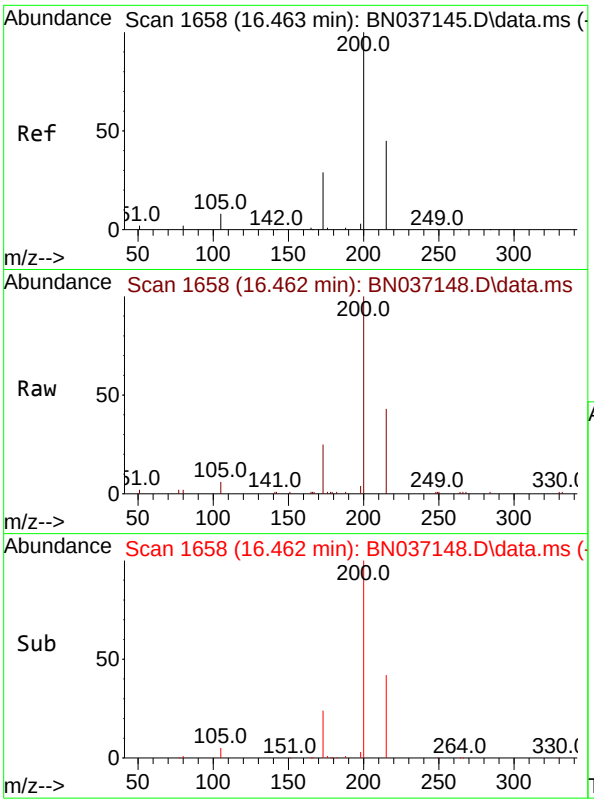


#22
Hexachlorobenzene
Concen: 3.217 ng
RT: 16.301 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:284 Resp: 13101

Ion	Ratio	Lower	Upper
284	100		
142	53.4	44.0	66.0
249	36.5	29.7	44.5



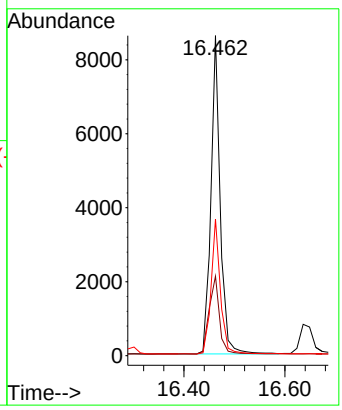


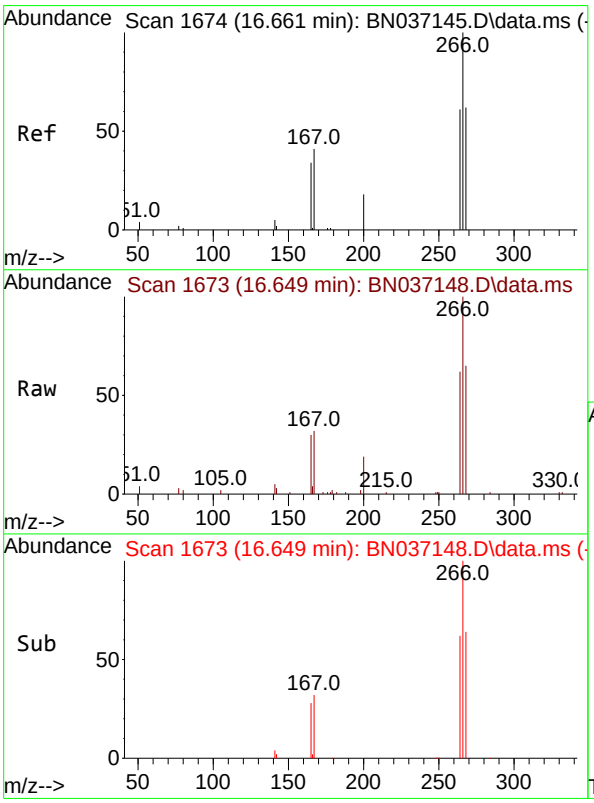
#23
Atrazine
Concen: 3.524 ng
RT: 16.462 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 10979

Ion	Ratio	Lower	Upper
200	100		
173	24.8	28.1	42.1#
215	42.7	39.3	58.9

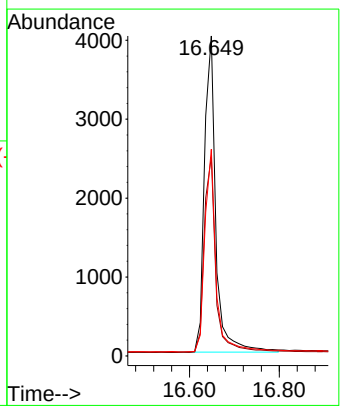


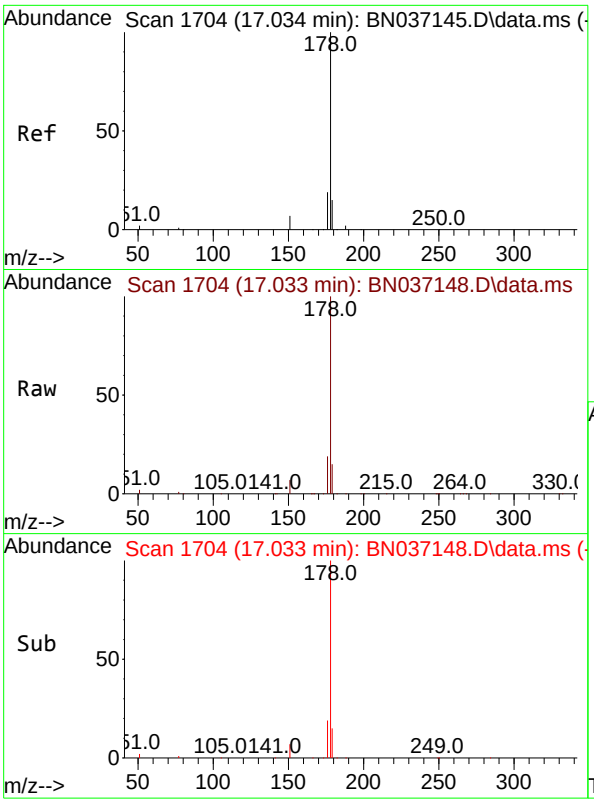


#24
Pentachlorophenol
Concen: 3.108 ng
RT: 16.649 min Scan# 1673
Delta R.T. -0.012 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:266 Resp: 7055

Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.3	73.9
268	63.1	49.0	73.4



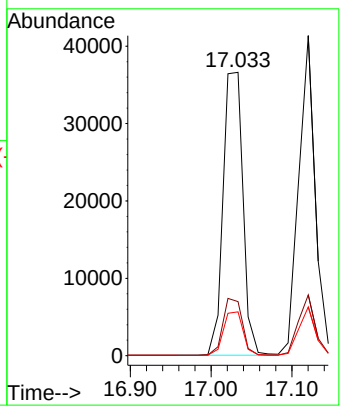


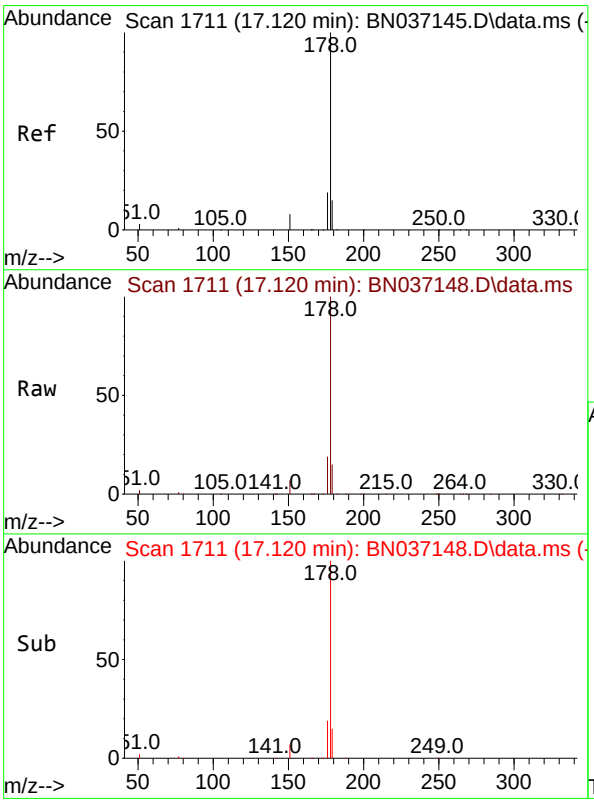
#25
Phenanthrene
Concen: 3.350 ng
RT: 17.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 62481

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.1	12.3	18.5

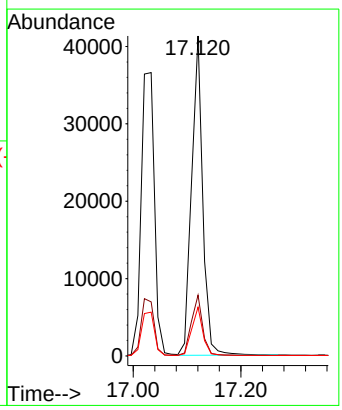


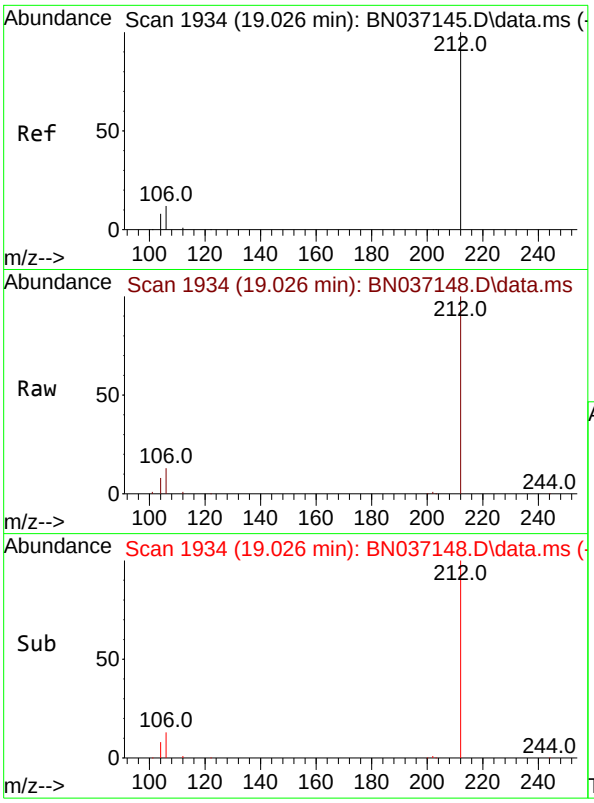


#26
Anthracene
Concen: 3.490 ng
RT: 17.120 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:178 Resp: 59394

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



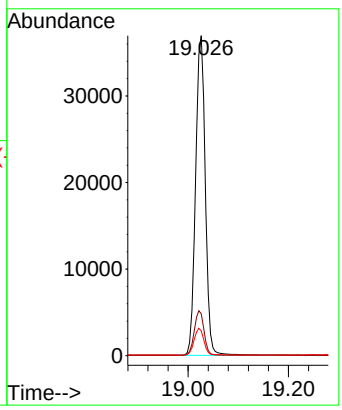


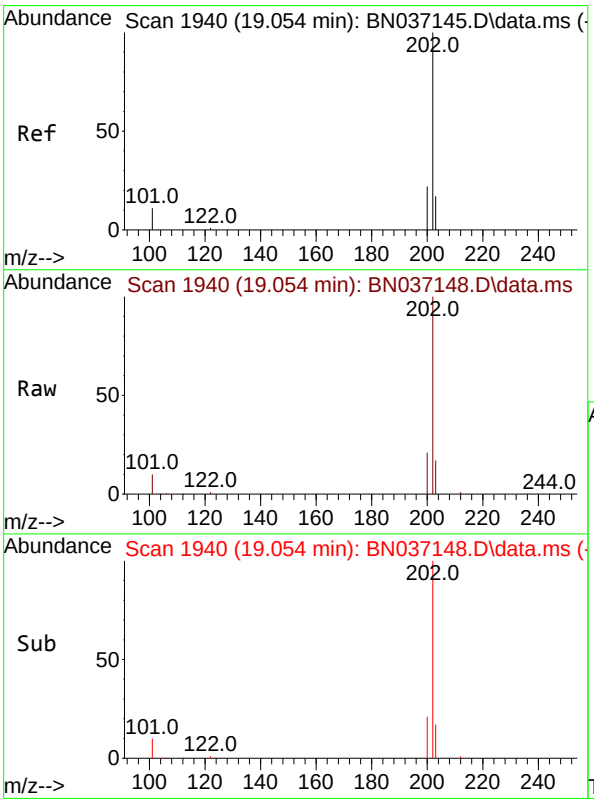
#27
Fluoranthene-d10
Concen: 3.373 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 49341

Ion	Ratio	Lower	Upper
212	100		
106	13.9	10.6	15.8
104	8.4	6.6	9.8

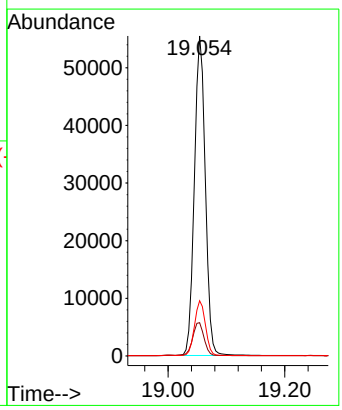


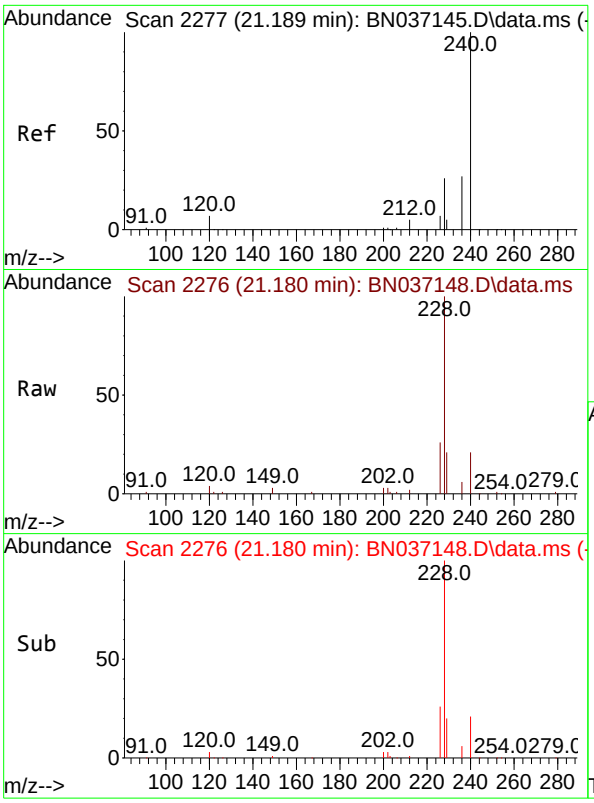


#28
Fluoranthene
Concen: 3.495 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:202 Resp: 72004

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.7	13.1
203	17.2	13.5	20.3



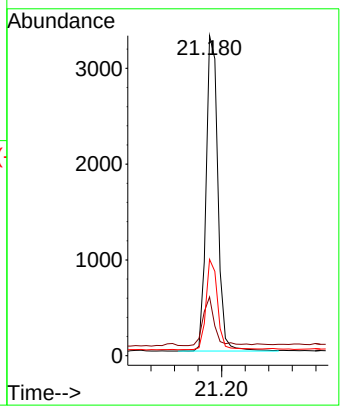


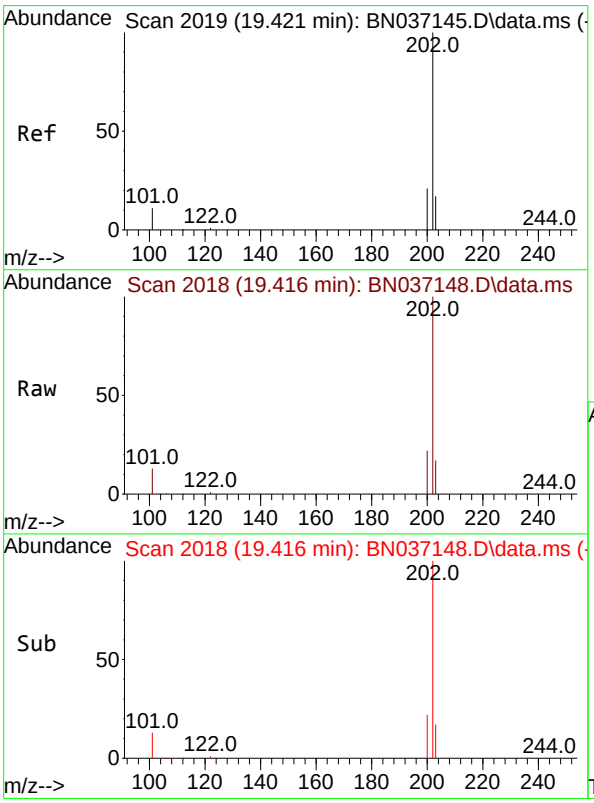
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 4564

Ion	Ratio	Lower	Upper
240	100		
120	18.4	9.0	13.4#
236	30.1	23.0	34.4

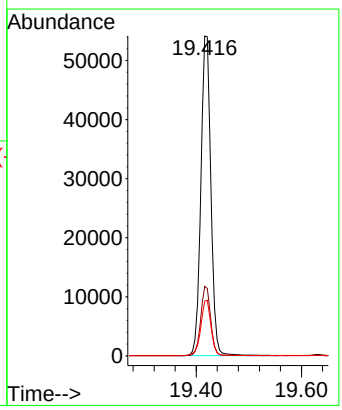


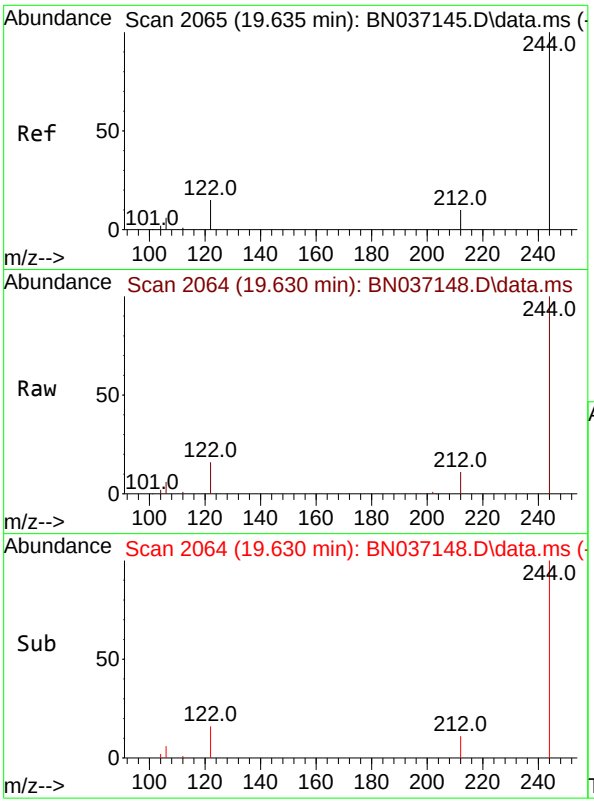


#30
Pyrene
Concen: 3.205 ng
RT: 19.416 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:202 Resp: 71397

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.7	14.2	21.4



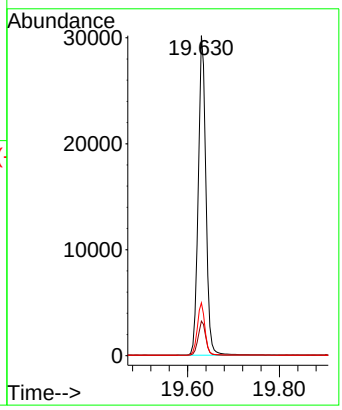


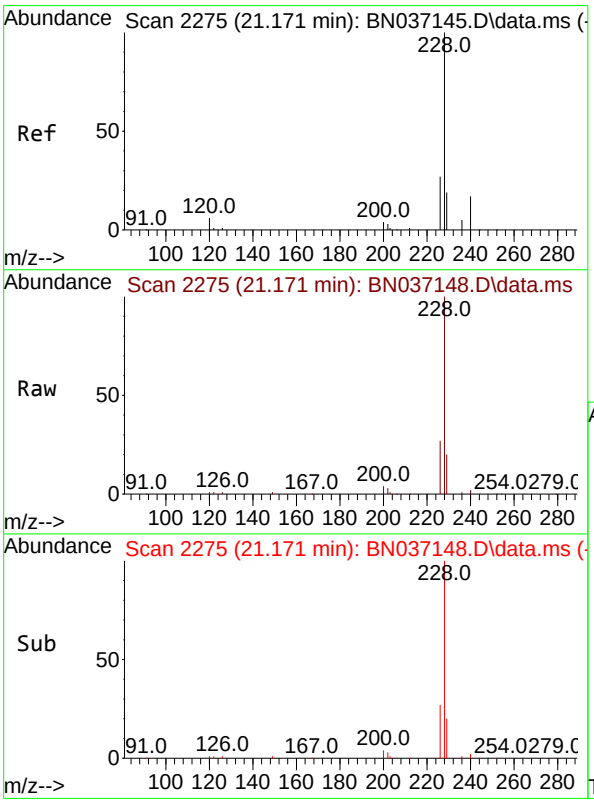
#31
Terphenyl-d14
Concen: 3.237 ng
RT: 19.630 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 34773

Ion	Ratio	Lower	Upper
244	100		
212	10.8	10.0	15.0
122	16.5	13.2	19.8

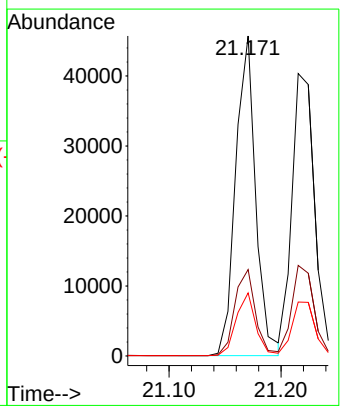


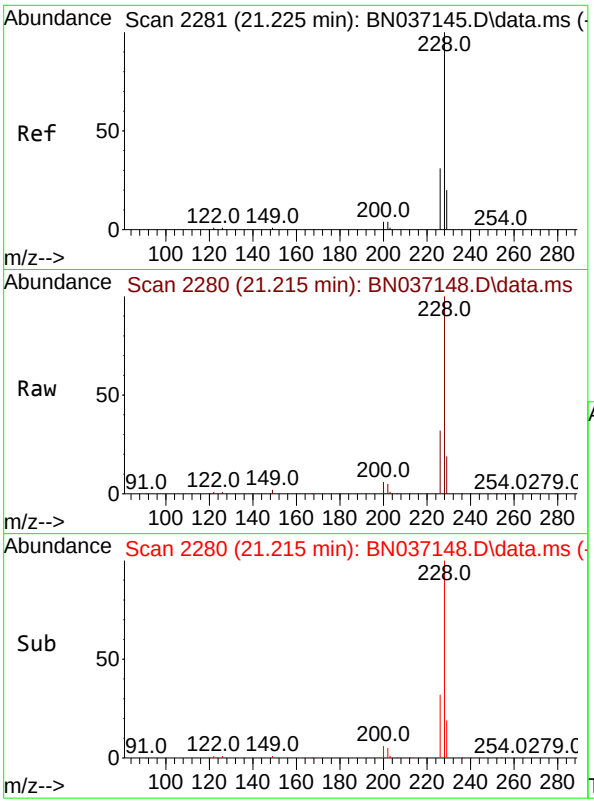


#32
Benzo(a)anthracene
Concen: 3.431 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:228 Resp: 56691

Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.6	33.8
229	19.7	16.2	24.2



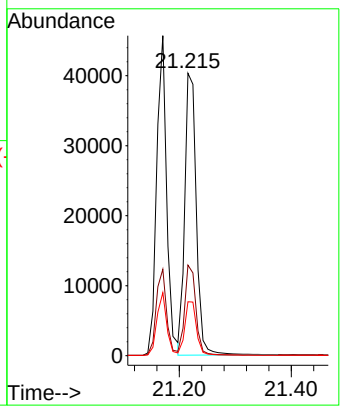


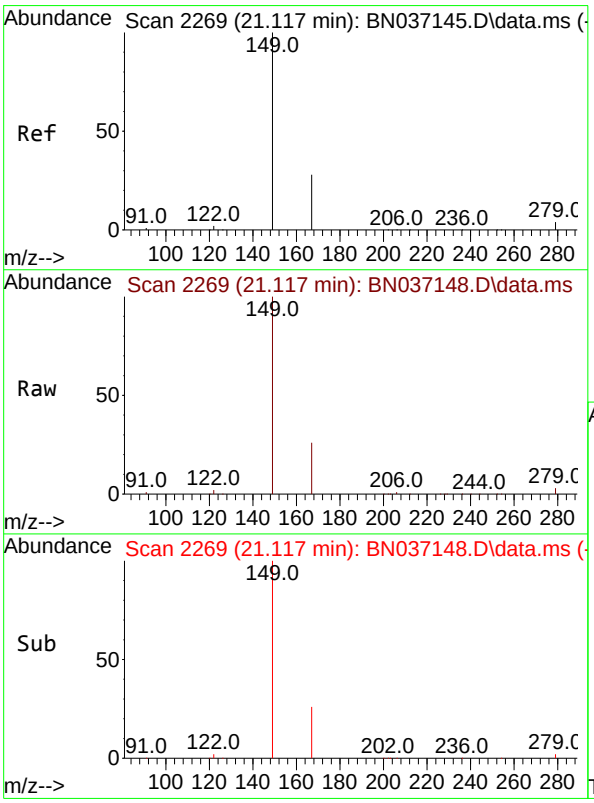
#33
Chrysene
Concen: 3.144 ng
RT: 21.215 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 57833

Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.2	37.8
229	19.1	16.8	25.2

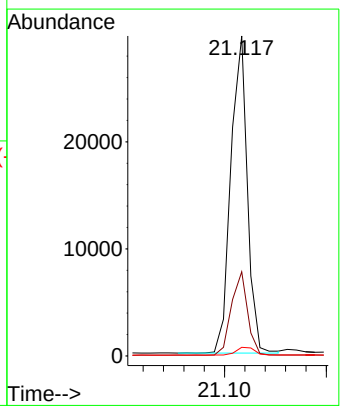


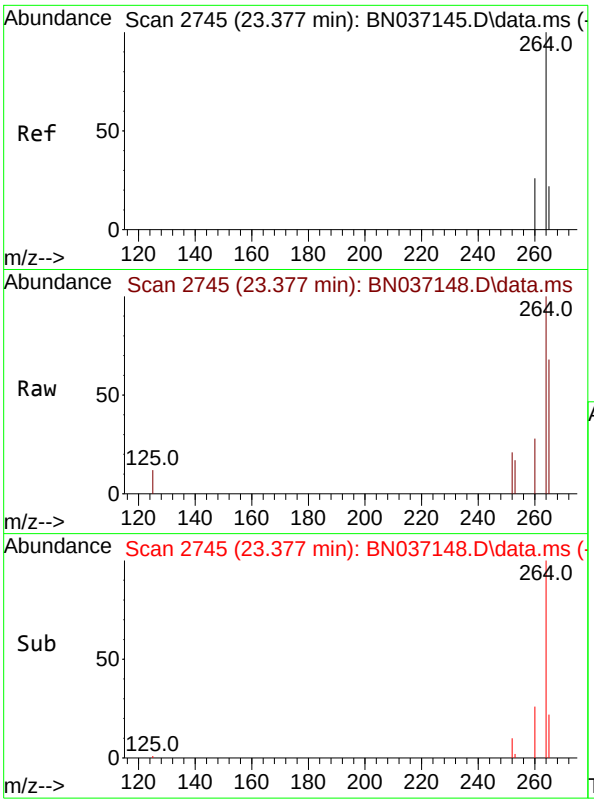


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.201 ng
RT: 21.117 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:149 Resp: 33369

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.0	31.4
279	2.8	2.9	4.3#



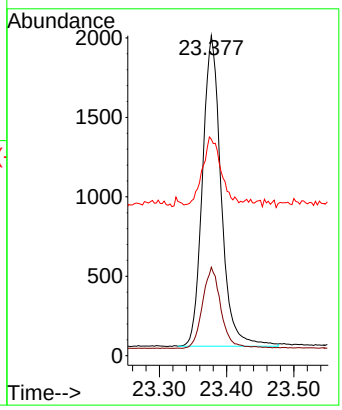


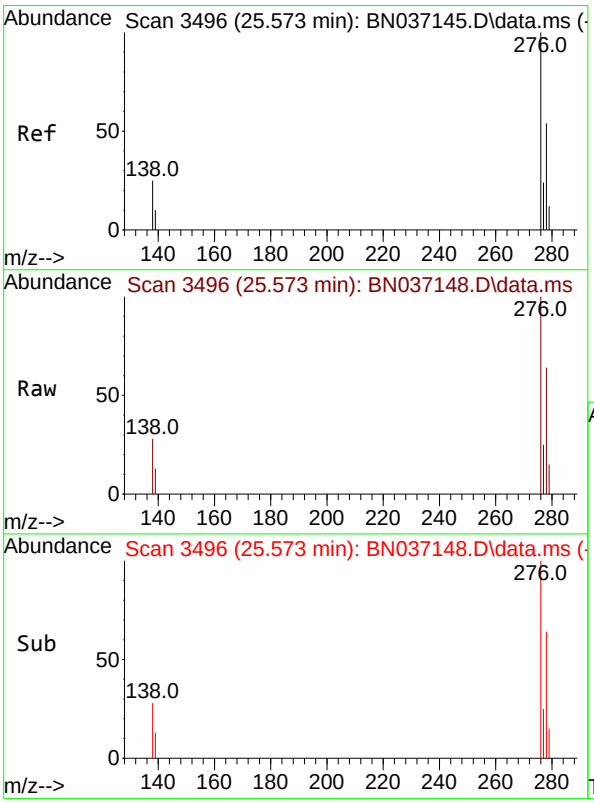
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.377 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 3760

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.1	33.1
265	67.7	55.8	83.8

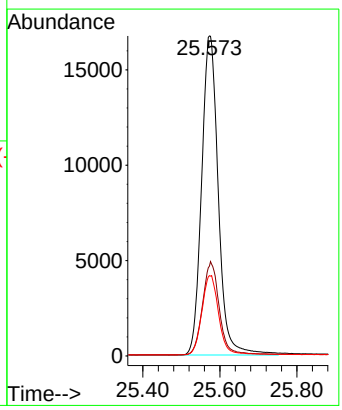


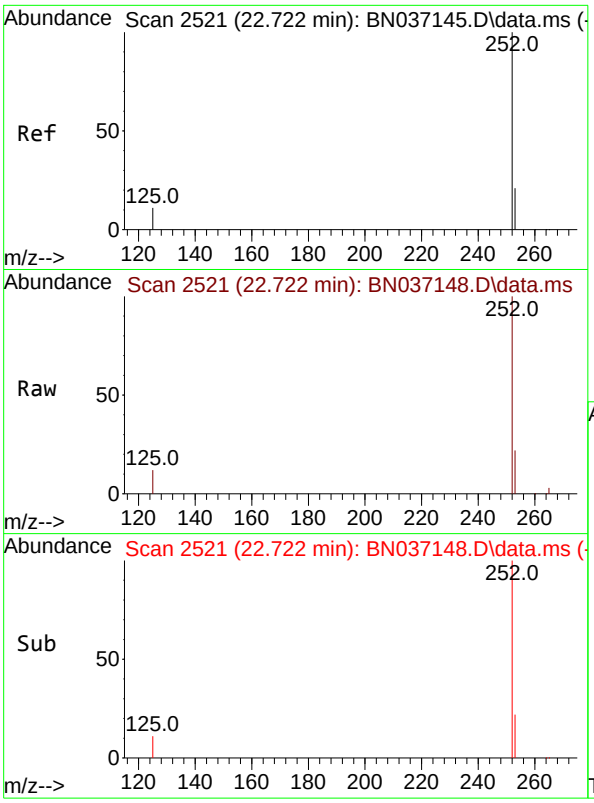


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.364 ng
RT: 25.573 min Scan# 3496
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:276 Resp: 50327

Ion	Ratio	Lower	Upper
276	100		
138	29.0	21.0	31.6
277	24.9	19.4	29.2



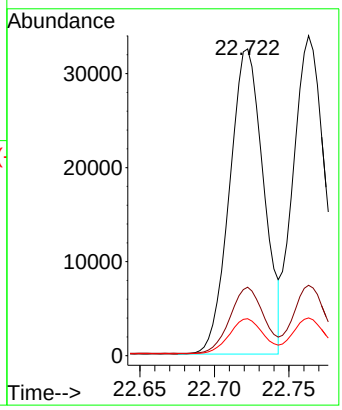


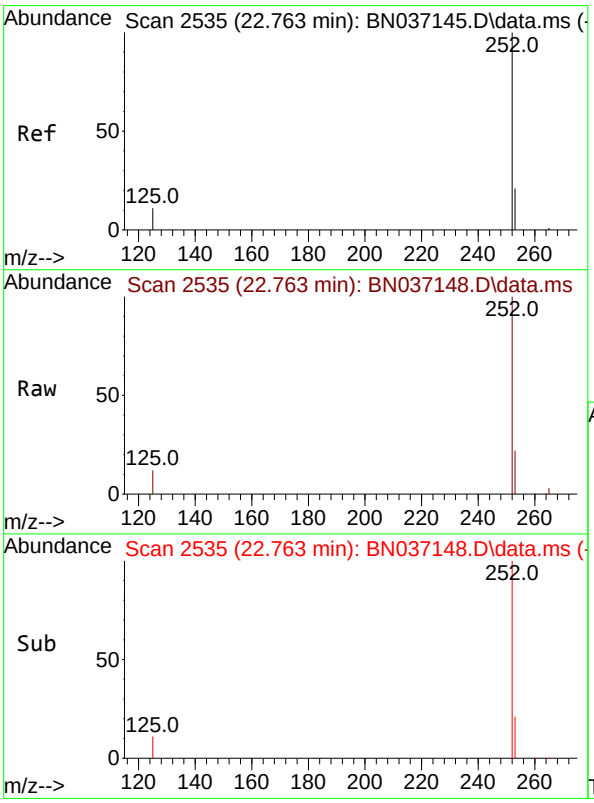
#37
Benzo(b)fluoranthene
Concen: 3.395 ng
RT: 22.722 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 51531

Ion	Ratio	Lower	Upper
252	100		
253	22.3	22.3	33.5
125	12.0	13.2	19.8#

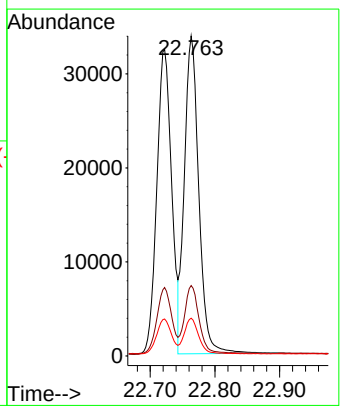


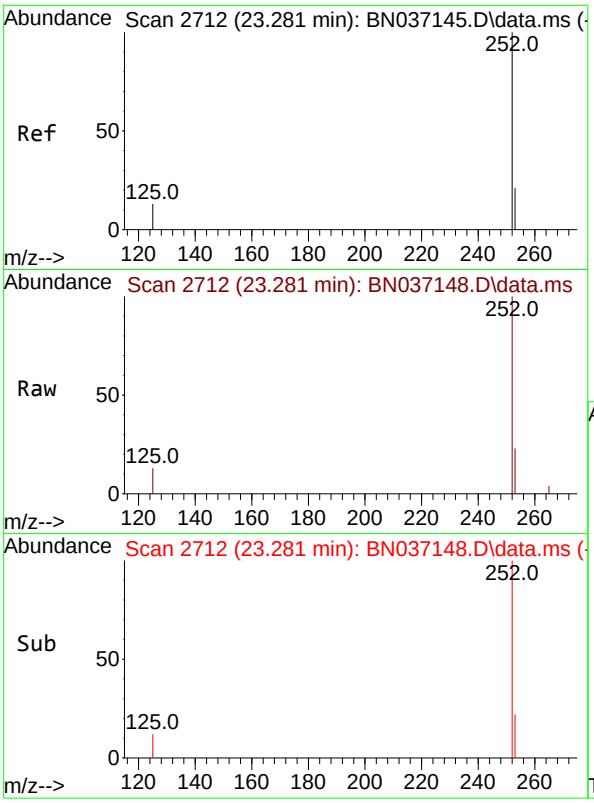


#38
Benzo(k)fluoranthene
Concen: 3.384 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:252 Resp: 52430

Ion	Ratio	Lower	Upper
252	100		
253	22.0	22.2	33.4#
125	11.8	13.2	19.8#



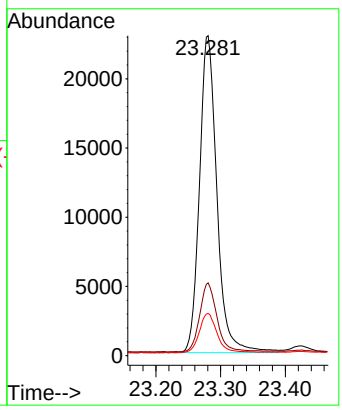


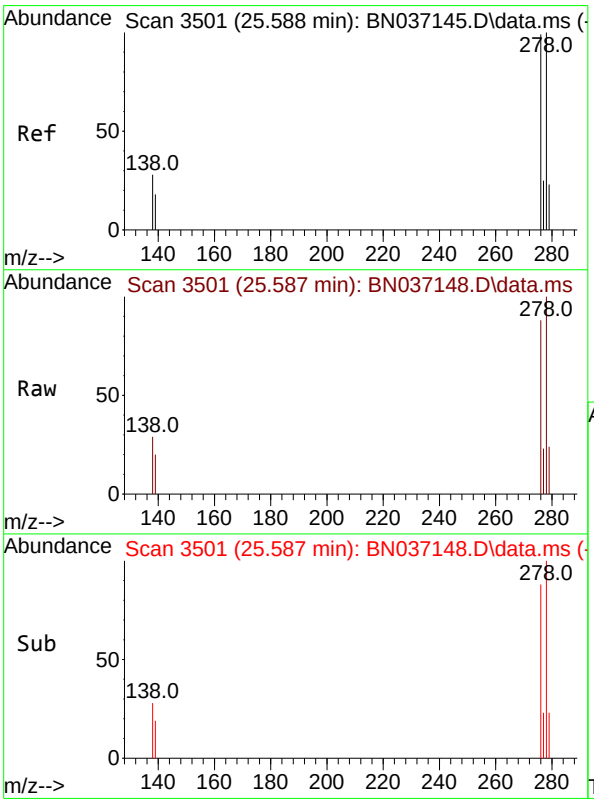
#39
Benzo(a)pyrene
Concen: 3.374 ng
RT: 23.281 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 42893

Ion	Ratio	Lower	Upper
252	100		
253	22.8	25.0	37.4#
125	13.2	17.0	25.6#

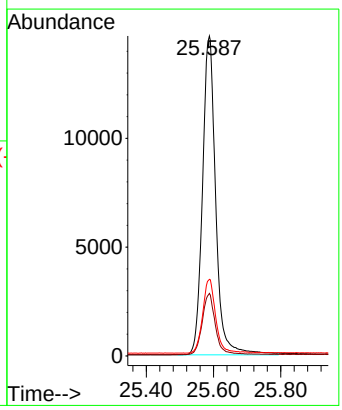


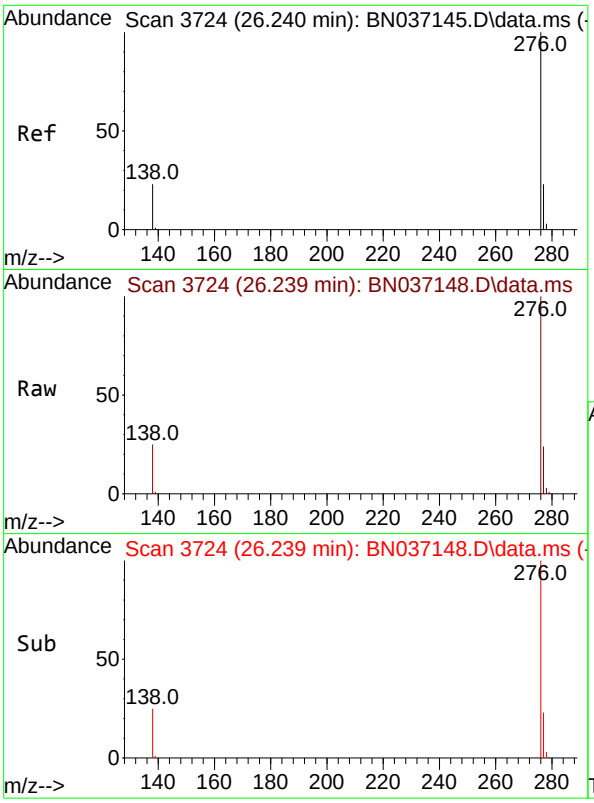


#40
Dibenzo(a,h)anthracene
Concen: 3.474 ng
RT: 25.587 min Scan# 3501
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Tgt Ion:278 Resp: 40079

Ion	Ratio	Lower	Upper
278	100		
139	19.6	17.6	26.4
279	23.9	26.0	39.0#



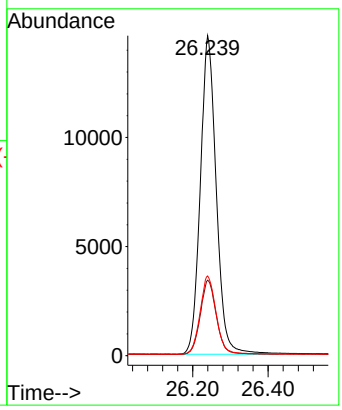


#41
Benzo(g,h,i)perylene
Concen: 3.233 ng
RT: 26.239 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037148.D
Acq: 03 Jun 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 42842

Ion	Ratio	Lower	Upper
276	100		
277	23.6	20.9	31.3
138	24.9	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037149.D
Acq On : 03 Jun 2025 15:14
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 04 01:43:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.589	152	2274	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	5863	0.400	ng		0.00
13) Acenaphthene-d10	14.235	164	3467	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	6764	0.400	ng		0.00
29) Chrysene-d12	21.180	240	5784	0.400	ng	#	0.00
35) Perylene-d12	23.374	264	4620	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	27710	4.928	ng		0.00
5) Phenol-d6	6.766	99	36531	5.359	ng		0.00
8) Nitrobenzene-d5	8.739	82	32690	5.285	ng		0.00
11) 2-Methylnaphthalene-d10	11.966	152	43118	5.283	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	8081	5.789	ng		-0.01
15) 2-Fluorobiphenyl	12.858	172	74736	5.056	ng		0.00
27) Fluoranthene-d10	19.026	212	94210	5.482	ng		0.00
31) Terphenyl-d14	19.630	244	66718	4.900	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.119	88	13025	4.297	ng		97
3) n-Nitrosodimethylamine	3.422	42	28752	4.724	ng	#	97
6) bis(2-Chloroethyl)ether	7.026	93	32562	5.006	ng		97
9) Naphthalene	10.415	128	84983	5.024	ng		96
10) Hexachlorobutadiene	10.714	225	17448	4.735	ng	#	99
12) 2-Methylnaphthalene	12.042	142	58095	5.358	ng		96
16) Acenaphthylene	13.957	152	89938	5.291	ng		99
17) Acenaphthene	14.299	154	57215	5.184	ng		97
18) Fluorene	15.293	166	75931	5.233	ng		98
20) 4,6-Dinitro-2-methylph...	15.378	198	9612	5.124	ng	#	31
21) 4-Bromophenyl-phenylether	16.189	248	22933	5.173	ng	#	87
22) Hexachlorobenzene	16.301	284	23190	4.847	ng		98
23) Atrazine	16.463	200	20848	5.696	ng	#	87
24) Pentachlorophenol	16.649	266	13952	5.085	ng		98
25) Phenanthrene	17.021	178	115105	5.252	ng		99
26) Anthracene	17.120	178	111362	5.569	ng		99
28) Fluoranthene	19.054	202	135672	5.604	ng		99
30) Pyrene	19.416	202	136281	4.827	ng		100
32) Benzo(a)anthracene	21.171	228	113532	5.423	ng		99
33) Chrysene	21.216	228	112475	4.825	ng		98
34) Bis(2-ethylhexyl)phtha...	21.117	149	72476	5.486	ng	#	99
36) Indeno(1,2,3-cd)pyrene	25.573	276	97988	5.331	ng		96
37) Benzo(b)fluoranthene	22.720	252	102873	5.516	ng	#	89
38) Benzo(k)fluoranthene	22.763	252	104252	5.475	ng	#	89
39) Benzo(a)pyrene	23.278	252	85510	5.474	ng	#	83
40) Dibenzo(a,h)anthracene	25.585	278	76694	5.411	ng	#	89
41) Benzo(g,h,i)perylene	26.243	276	82277	5.054	ng		98

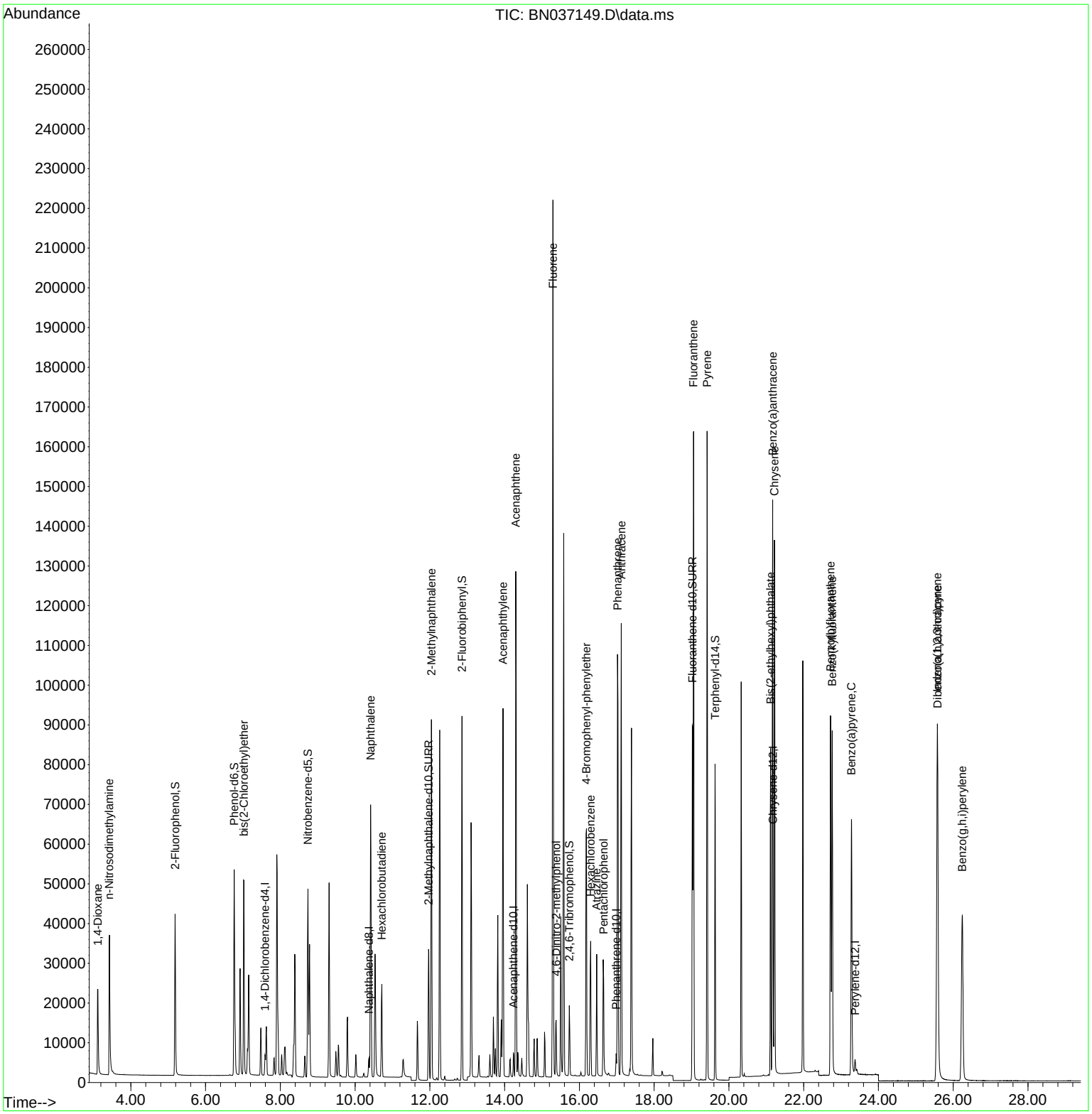
(#) = qualifier out of range (m) = manual integration (+) = signals summed

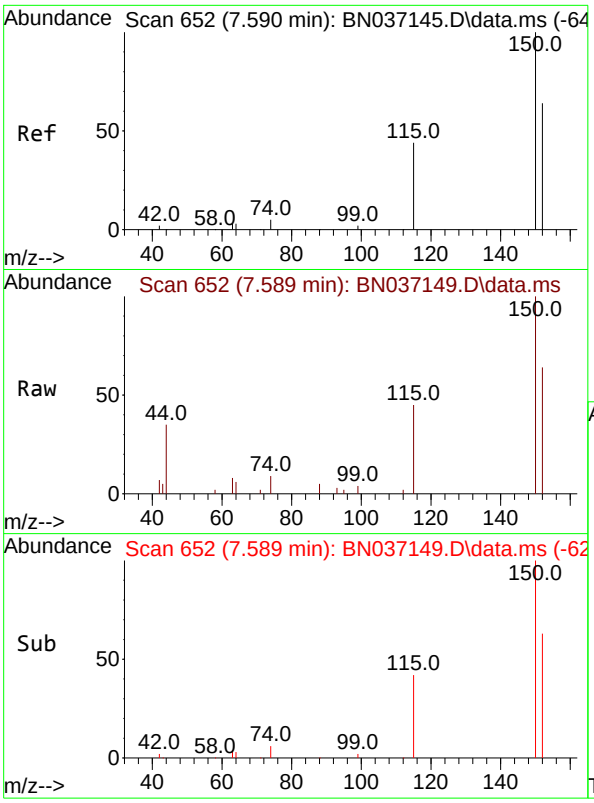
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037149.D
Acq On : 03 Jun 2025 15:14
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 04 01:43:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:40:18 2025
Response via : Initial Calibration



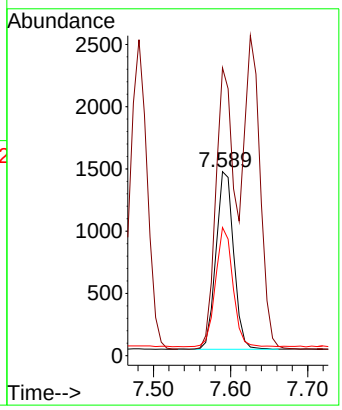


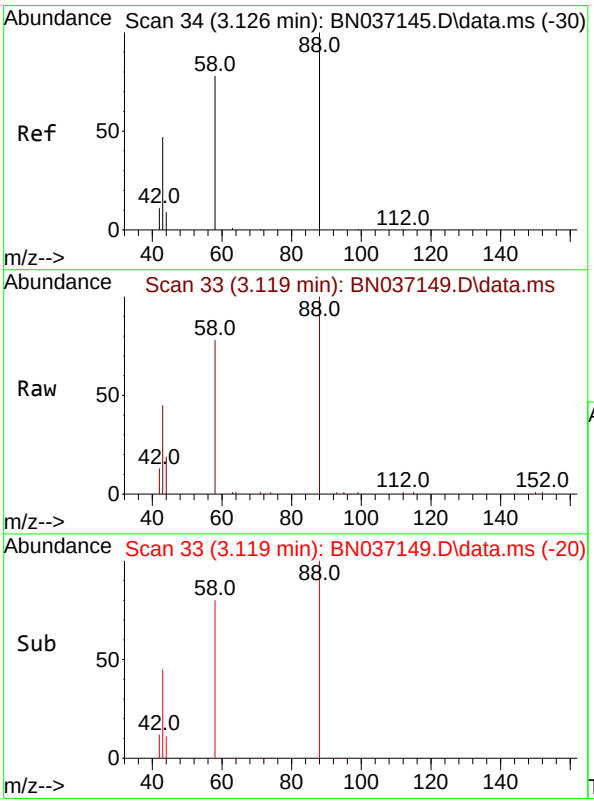
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2274

Ion	Ratio	Lower	Upper
152	100		
150	156.4	123.2	184.8
115	69.7	56.6	85.0

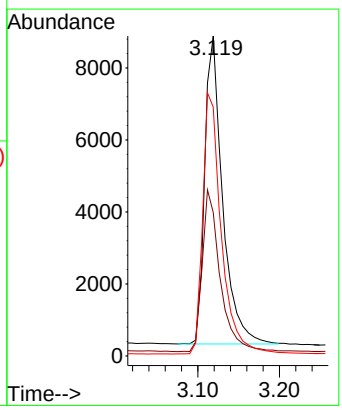


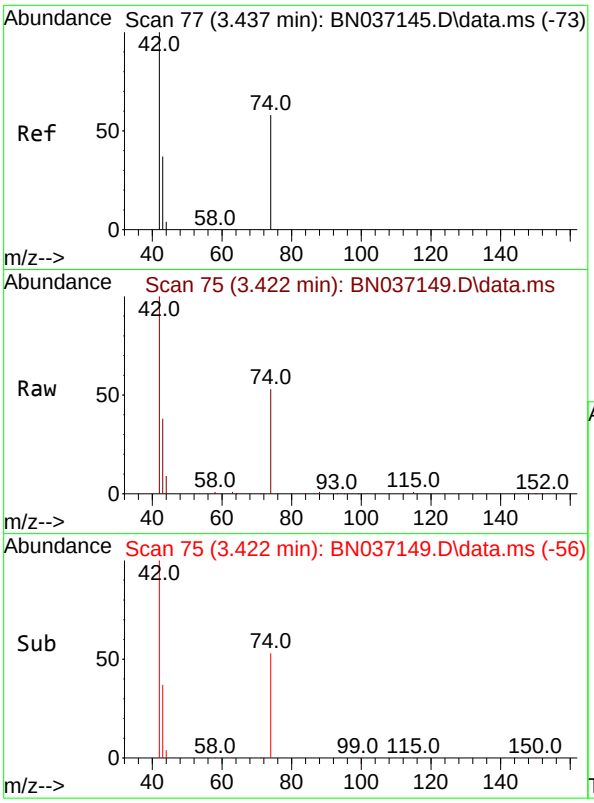


#2
1,4-Dioxane
Concen: 4.297 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion: 88 Resp: 13025

Ion	Ratio	Lower	Upper
88	100		
43	52.8	43.5	65.3
58	88.1	67.7	101.5



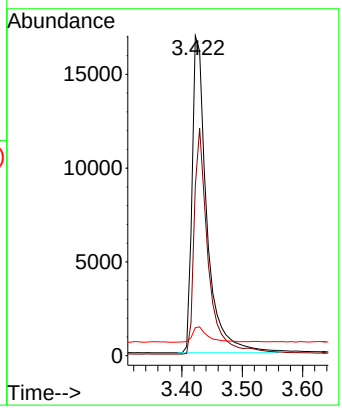


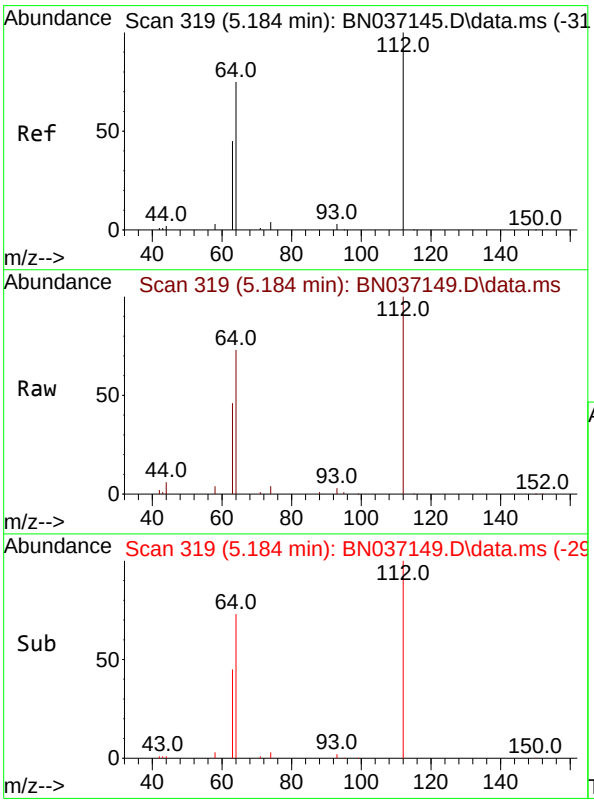
#3
n-Nitrosodimethylamine
Concen: 4.724 ng
RT: 3.422 min Scan# 7
Delta R.T. -0.015 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 28752

Ion	Ratio	Lower	Upper
42	100		
74	68.0	53.0	79.4
44	5.0	5.9	8.9#

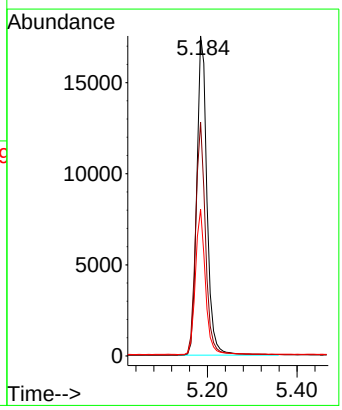


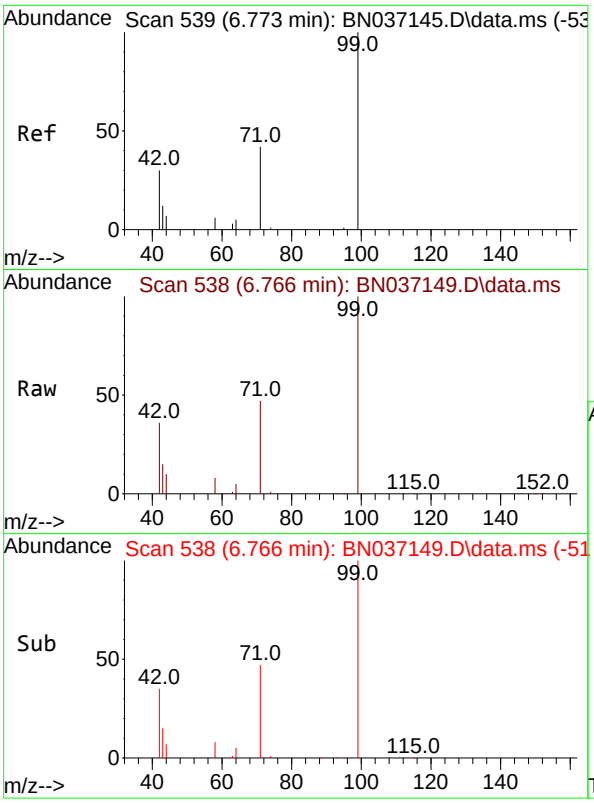


#4
2-Fluorophenol
Concen: 4.928 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:112 Resp: 27710

Ion	Ratio	Lower	Upper
112	100		
64	70.9	56.3	84.5
63	44.5	36.2	54.4



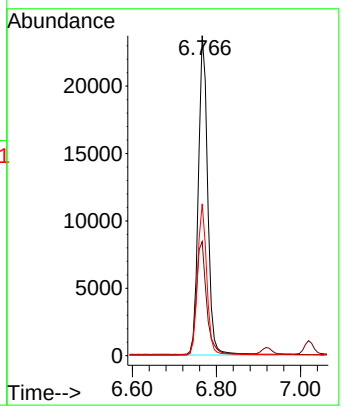


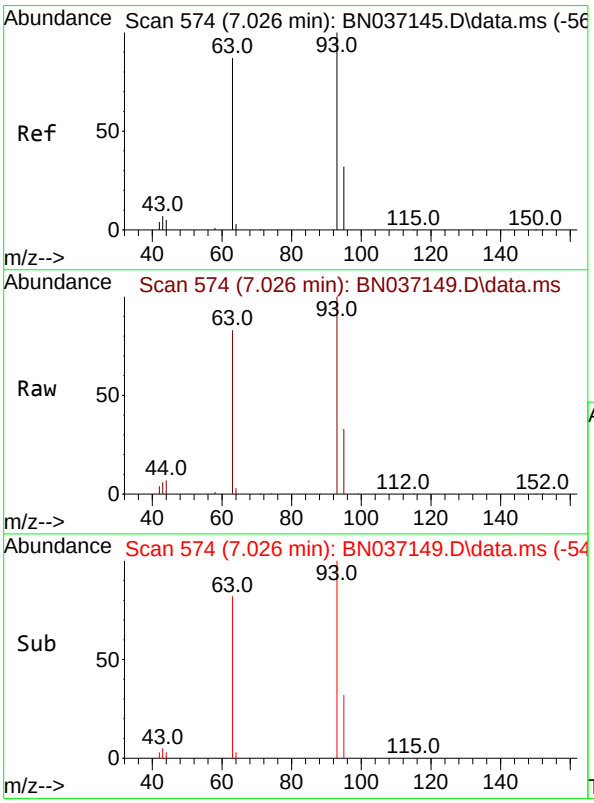
#5
Phenol-d6
Concen: 5.359 ng
RT: 6.766 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 36531

Ion	Ratio	Lower	Upper
99	100		
42	38.3	31.3	46.9
71	46.9	38.2	57.2

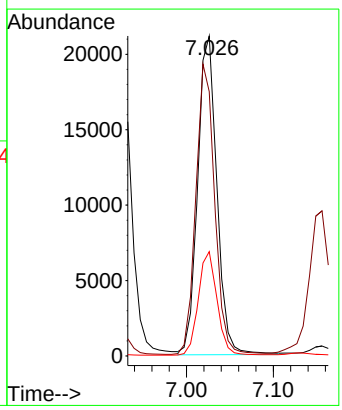


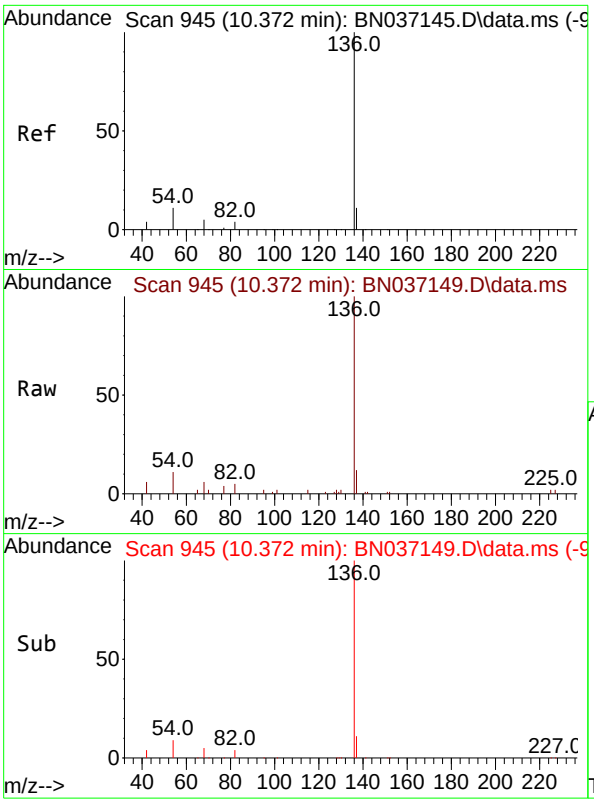


#6
bis(2-Chloroethyl)ether
Concen: 5.006 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion: 93 Resp: 32562

Ion	Ratio	Lower	Upper
93	100		
63	89.2	68.6	103.0
95	31.7	24.3	36.5



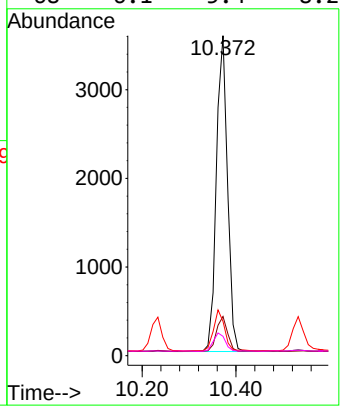


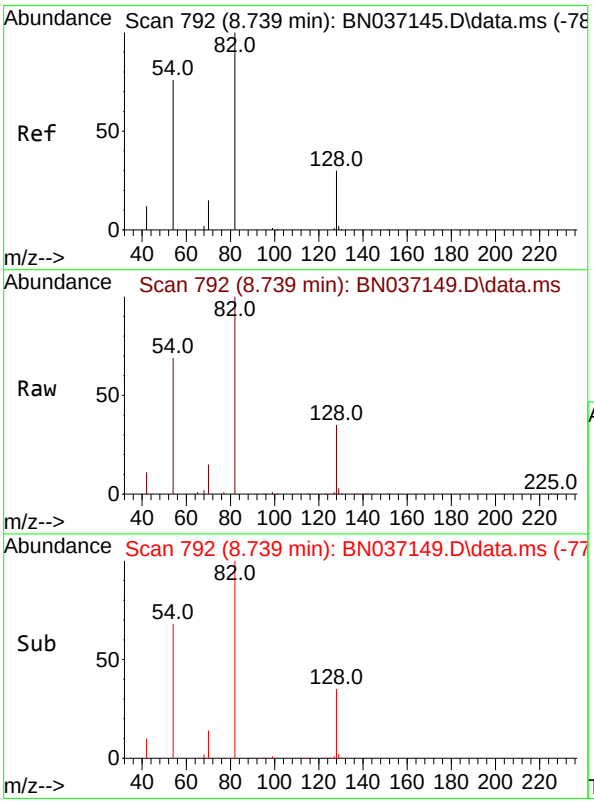
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 5863

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.7	9.7	14.5
68	6.1	5.4	8.2

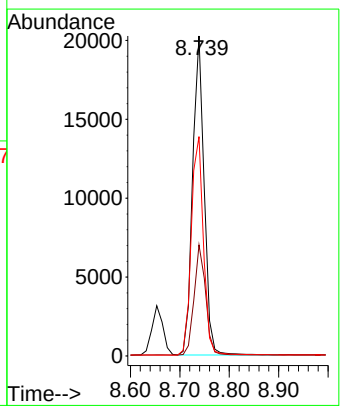


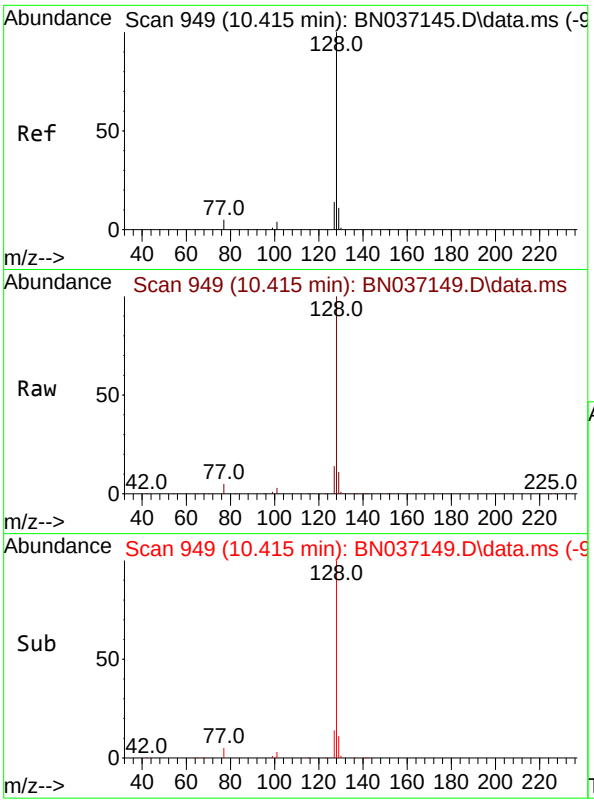


#8
Nitrobenzene-d5
Concen: 5.285 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion: 82 Resp: 32690

Ion	Ratio	Lower	Upper
82	100		
128	34.7	26.9	40.3
54	68.6	61.4	92.2



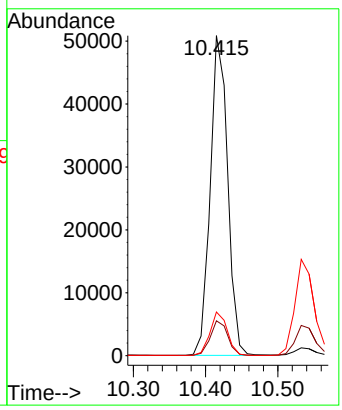


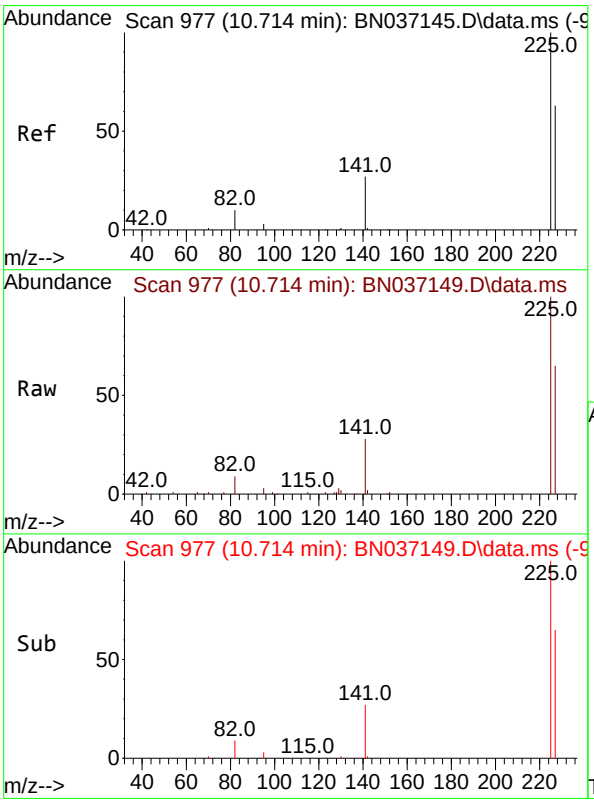
#9
Naphthalene
Concen: 5.024 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 84983

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.8
127	13.6	12.3	18.5

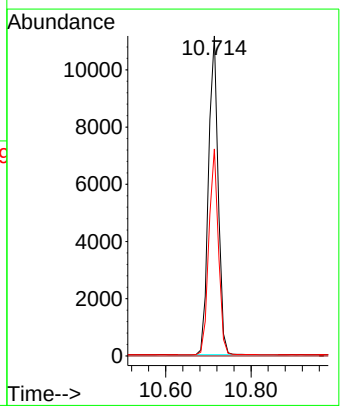


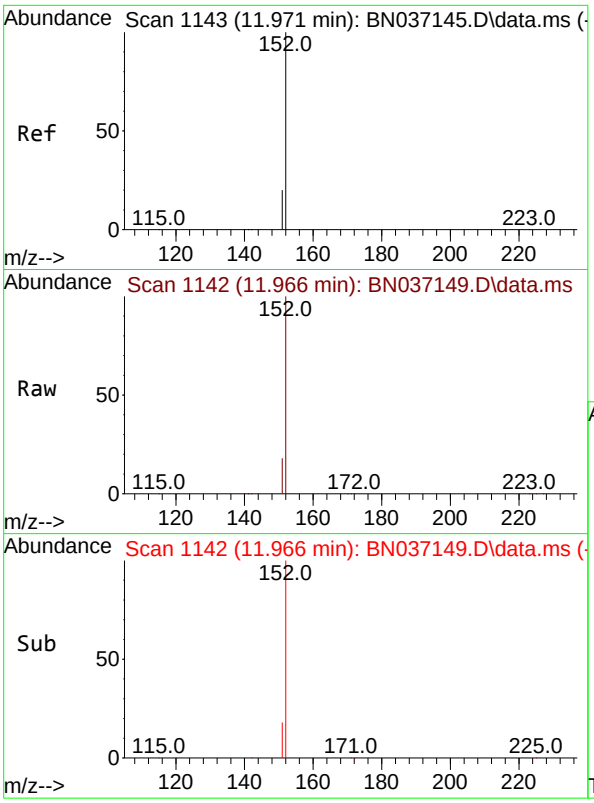


#10
Hexachlorobutadiene
Concen: 4.735 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:225 Resp: 17448

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



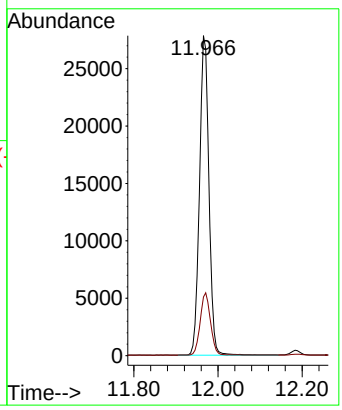


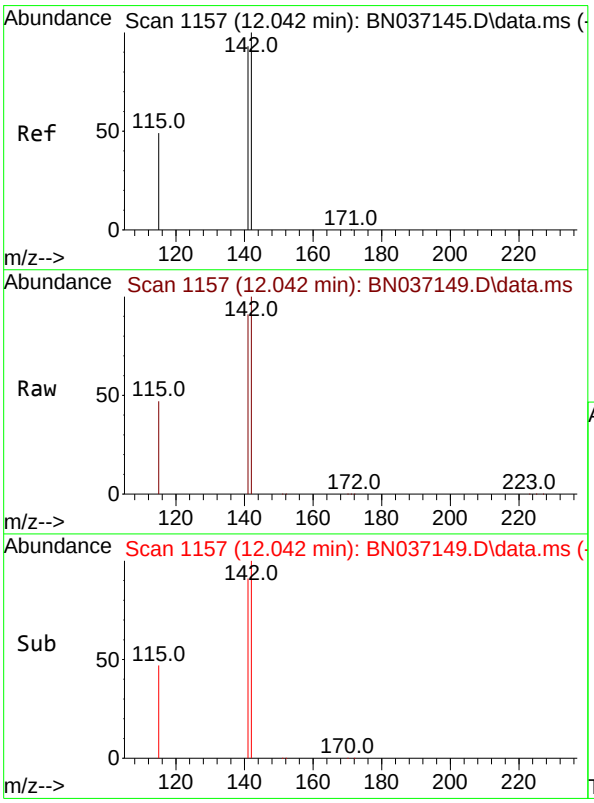
#11
2-Methylnaphthalene-d10
Concen: 5.283 ng
RT: 11.966 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 43118

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.1	25.7

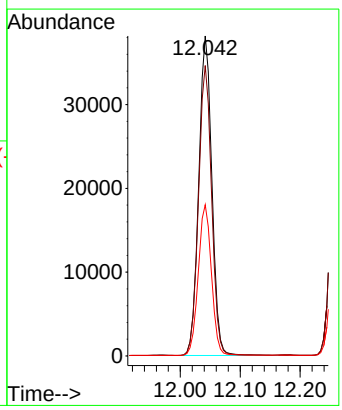


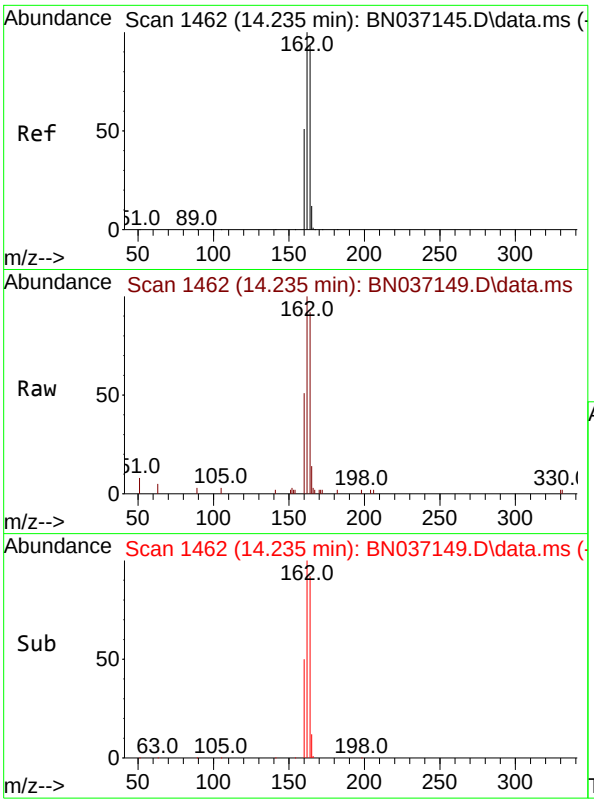


#12
2-Methylnaphthalene
Concen: 5.358 ng
RT: 12.042 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:142 Resp: 58095

Ion	Ratio	Lower	Upper
142	100		
141	90.7	74.6	111.8
115	47.2	41.0	61.4



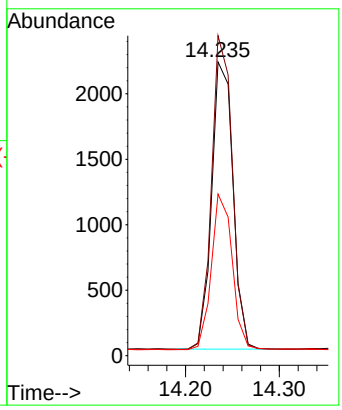


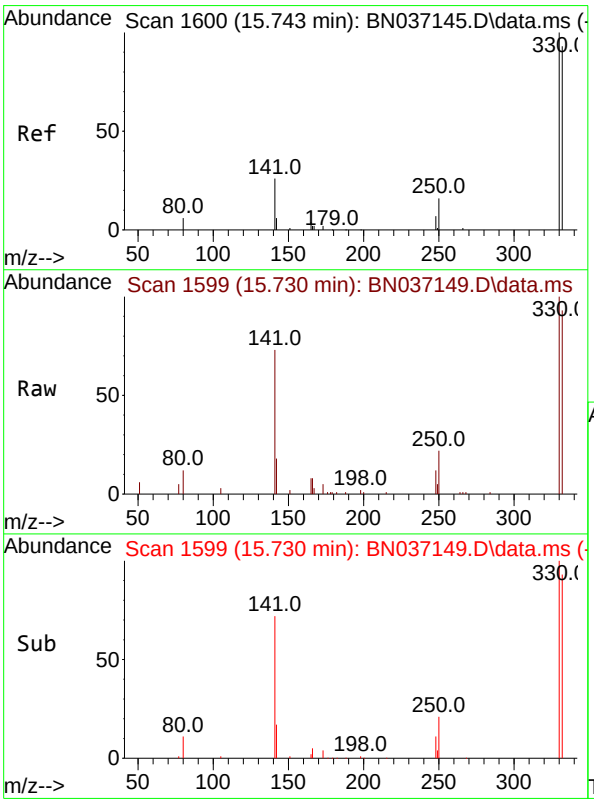
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 3467

Ion	Ratio	Lower	Upper
164	100		
162	108.9	85.5	128.3
160	55.0	44.6	67.0

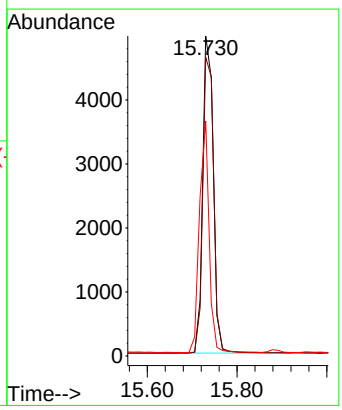


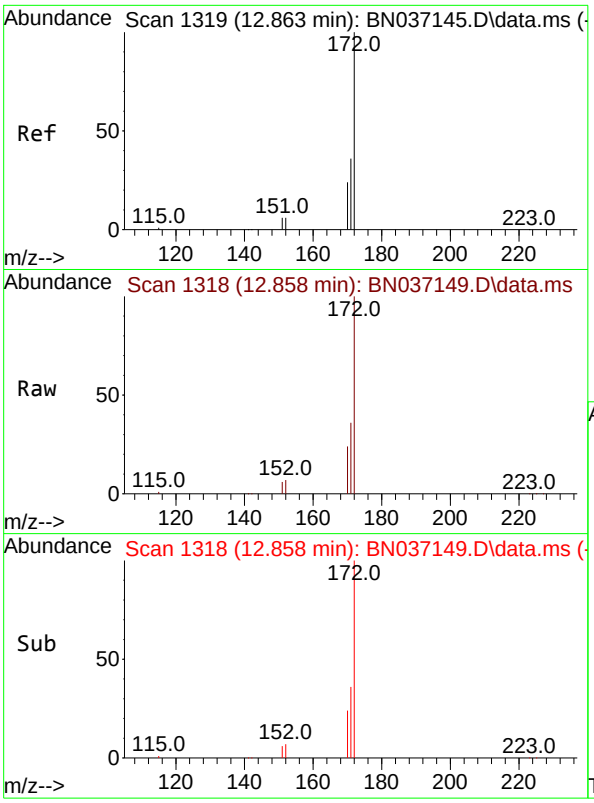


#14
2,4,6-Tribromophenol
Concen: 5.789 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.012 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:330 Resp: 8081

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.1	115.7
141	66.9	46.4	69.6



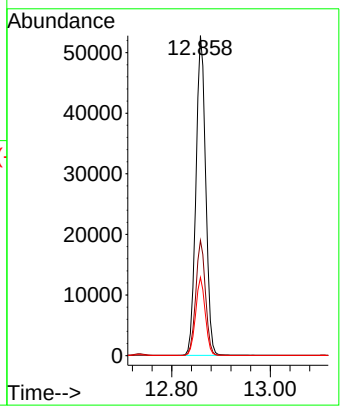


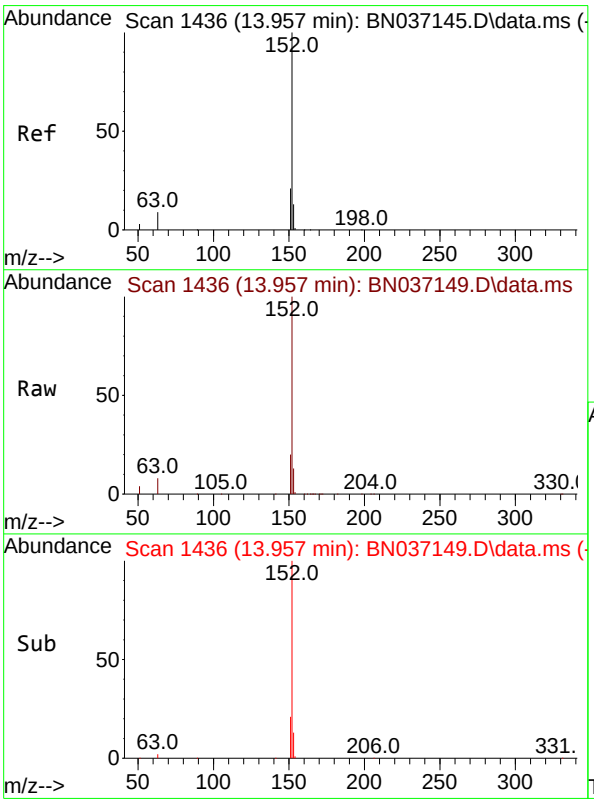
#15
2-Fluorobiphenyl
Concen: 5.056 ng
RT: 12.858 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 74736

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.6	44.4
170	24.4	20.3	30.5

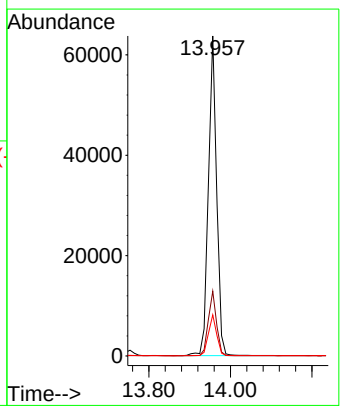


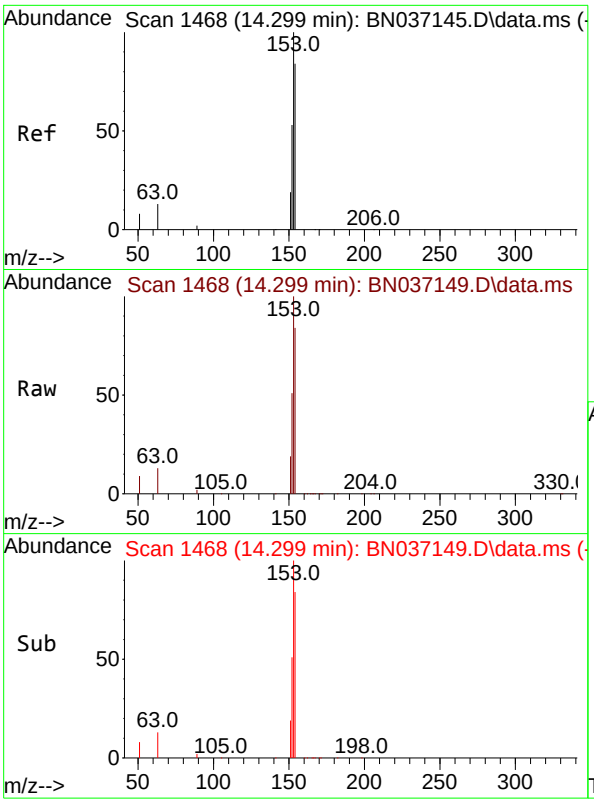


#16
Acenaphthylene
Concen: 5.291 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:152 Resp: 89938

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	12.9	10.6	15.8



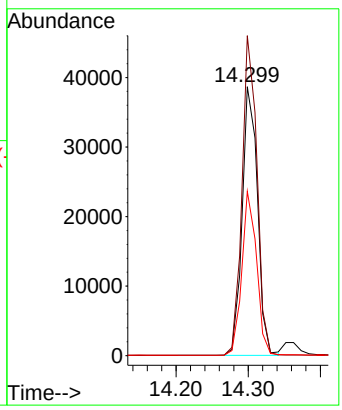


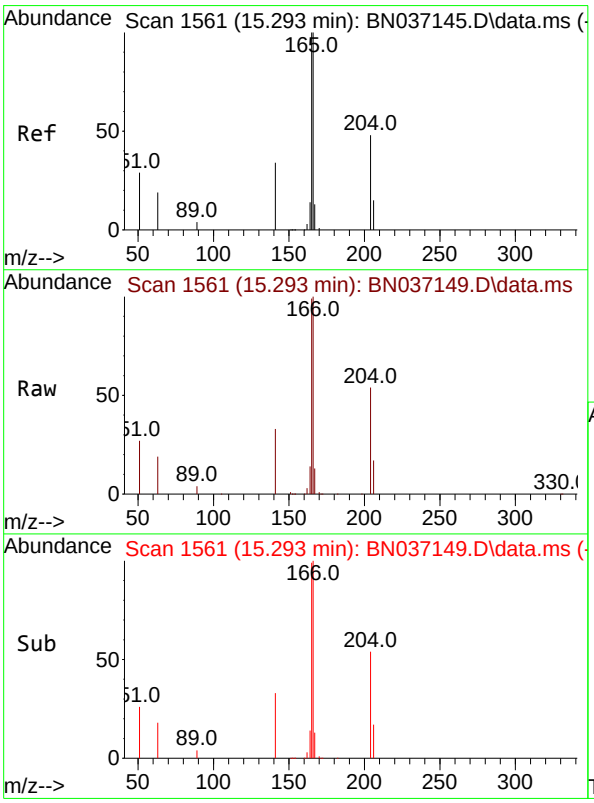
#17
Acenaphthene
Concen: 5.184 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 57215

Ion	Ratio	Lower	Upper
154	100		
153	116.0	93.8	140.8
152	58.8	50.5	75.7

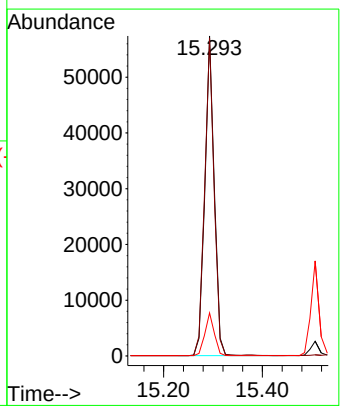


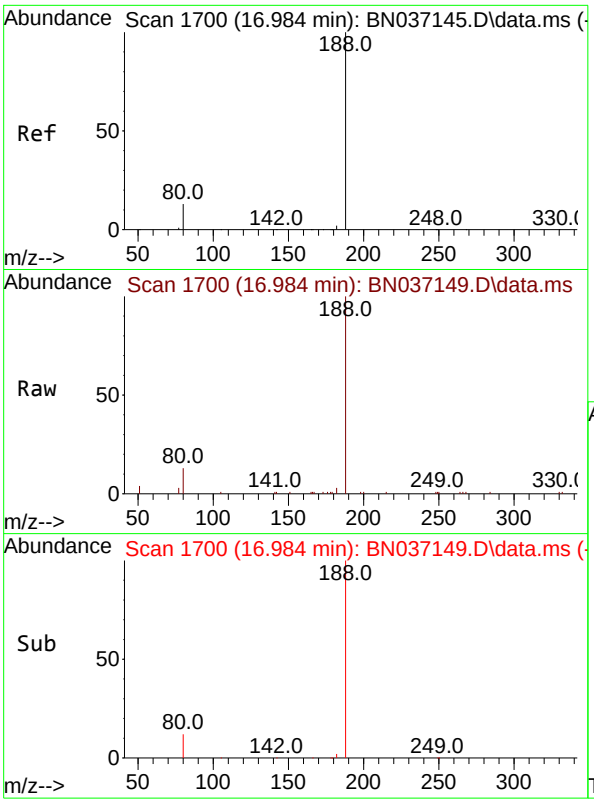


#18
Fluorene
Concen: 5.233 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:166 Resp: 75931

Ion	Ratio	Lower	Upper
166	100		
165	99.5	81.1	121.7
167	13.4	10.8	16.2



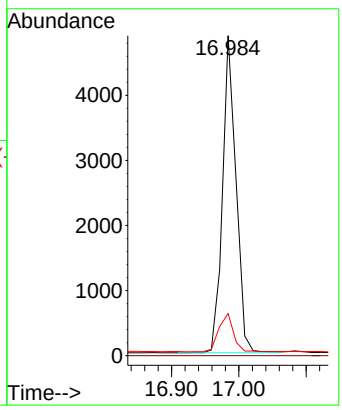


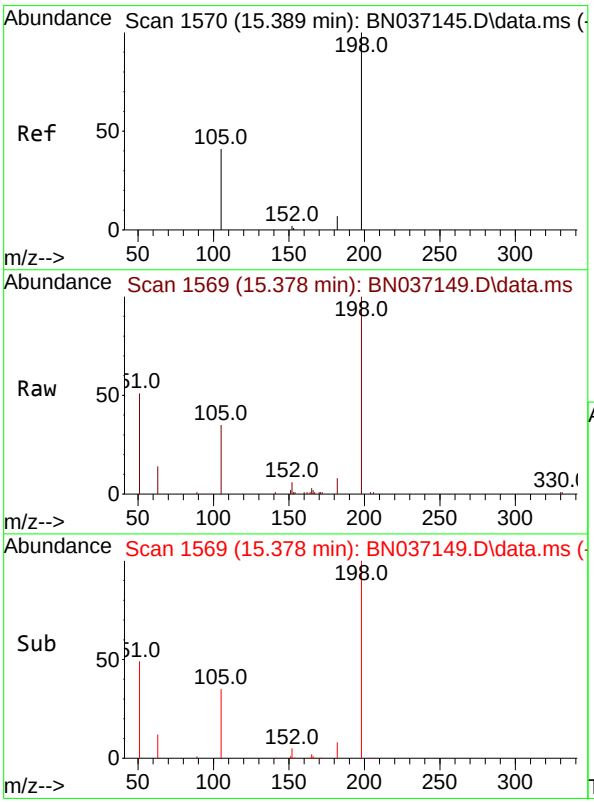
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 6764

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.2	11.3	16.9

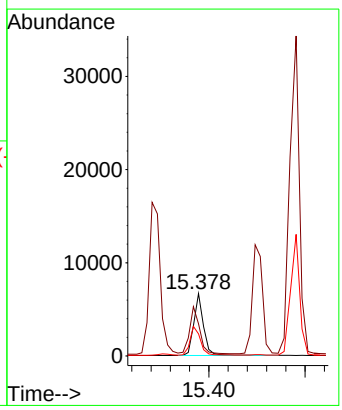


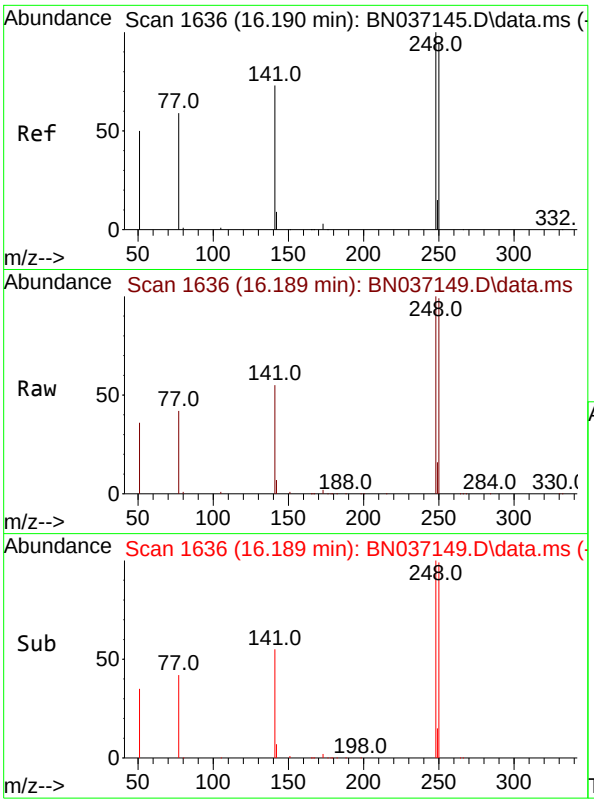


#20
4,6-Dinitro-2-methylphenol
Concen: 5.124 ng
RT: 15.378 min Scan# 1569
Delta R.T. -0.011 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:198 Resp: 9612

Ion	Ratio	Lower	Upper
198	100		
51	51.5	125.2	187.8#
105	35.5	57.1	85.7#



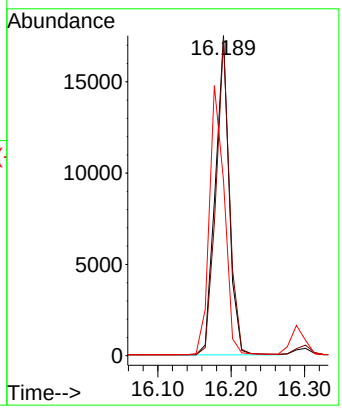


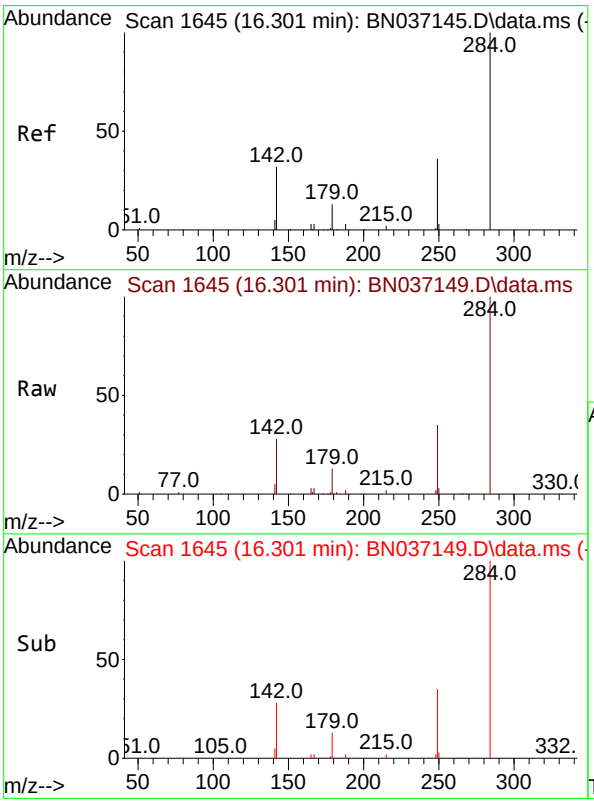
#21
4-Bromophenyl-phenylether
Concen: 5.173 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 22933

Ion	Ratio	Lower	Upper
248	100		
250	99.0	76.1	114.1
141	54.8	60.1	90.1#

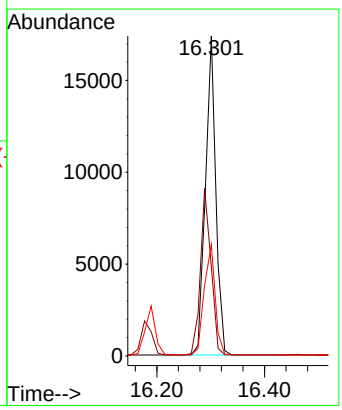


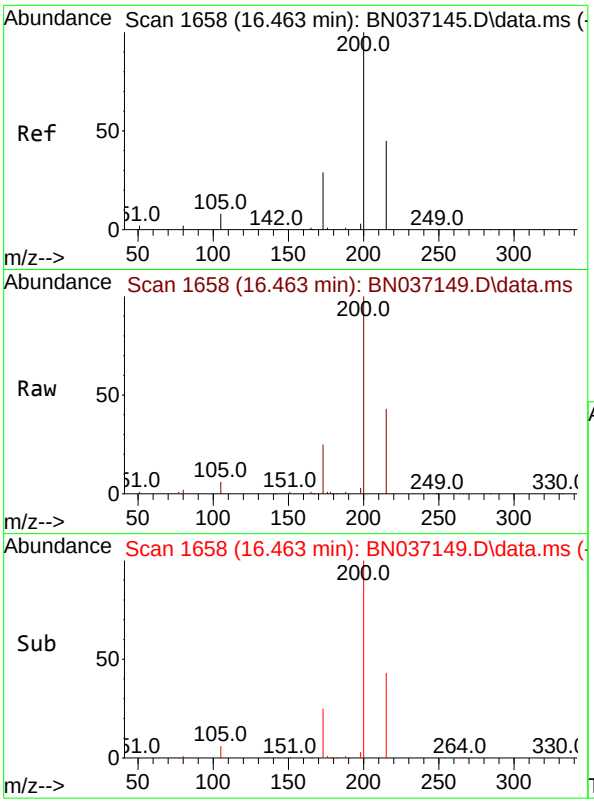


#22
Hexachlorobenzene
Concen: 4.847 ng
RT: 16.301 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:284 Resp: 23190

Ion	Ratio	Lower	Upper
284	100		
142	53.5	44.0	66.0
249	36.6	29.7	44.5



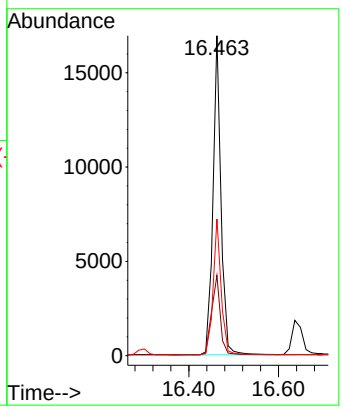


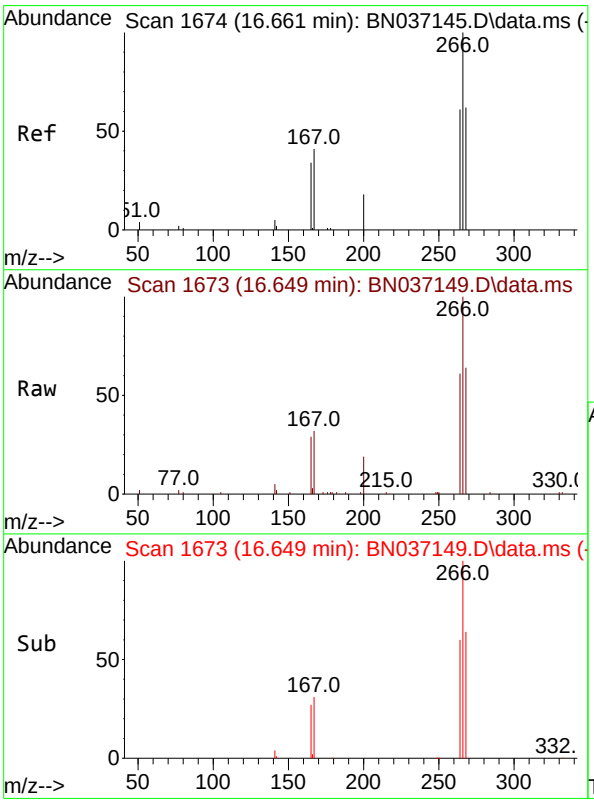
#23
Atrazine
Concen: 5.696 ng
RT: 16.463 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 20848

Ion	Ratio	Lower	Upper
200	100		
173	25.1	28.1	42.1#
215	42.7	39.3	58.9

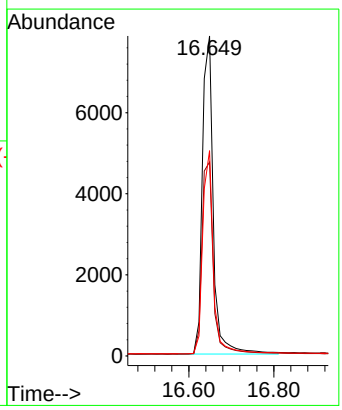


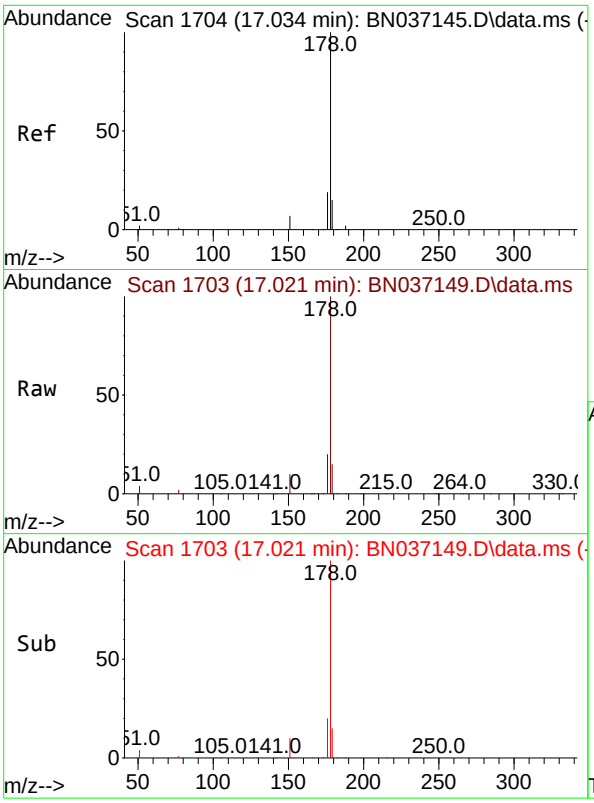


#24
Pentachlorophenol
Concen: 5.085 ng
RT: 16.649 min Scan# 1673
Delta R.T. -0.012 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:266 Resp: 13952

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.3	73.9
268	62.7	49.0	73.4



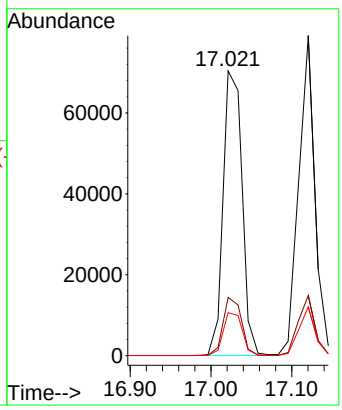


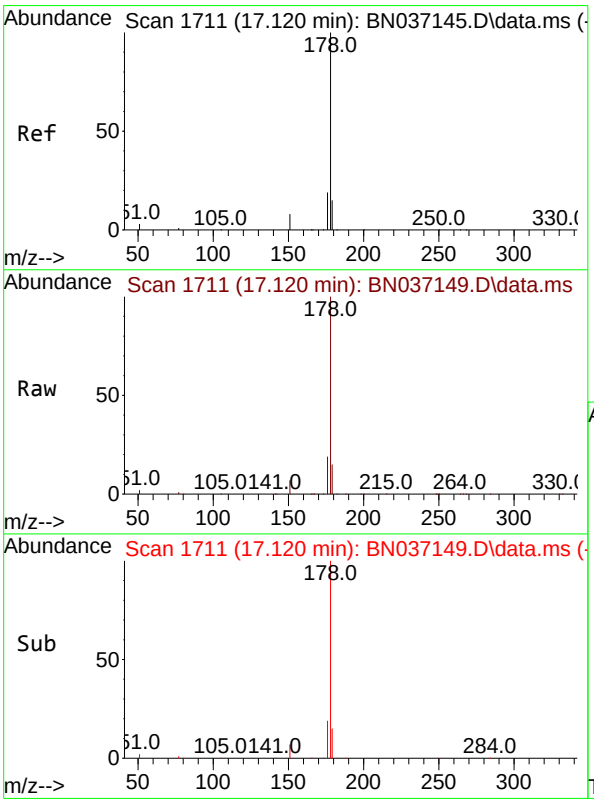
#25
Phenanthrene
Concen: 5.252 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 115105

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.1	12.3	18.5

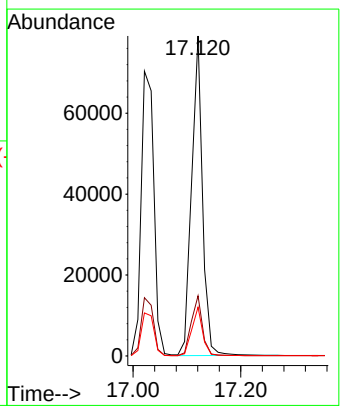


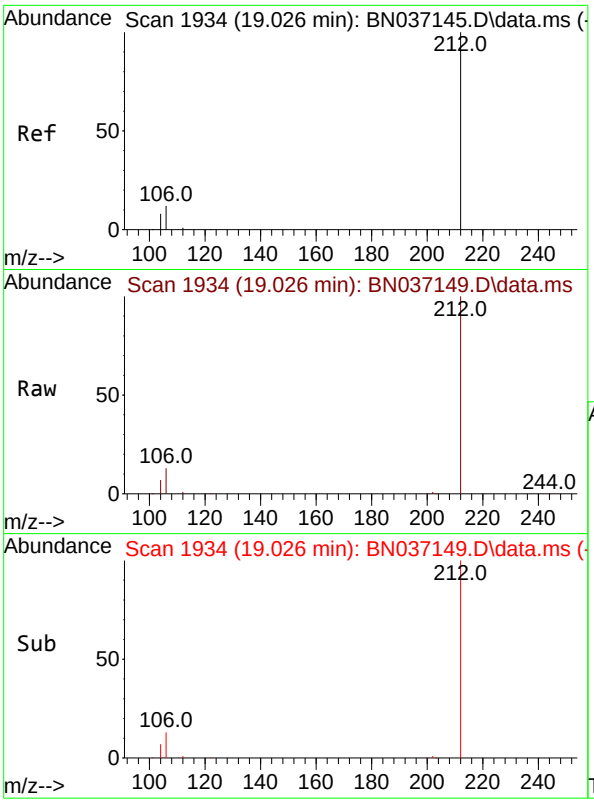


#26
Anthracene
Concen: 5.569 ng
RT: 17.120 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:178 Resp: 111362

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.1	12.9	19.3



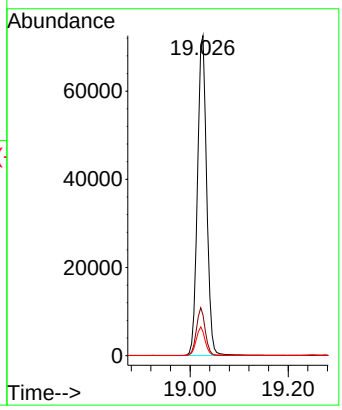


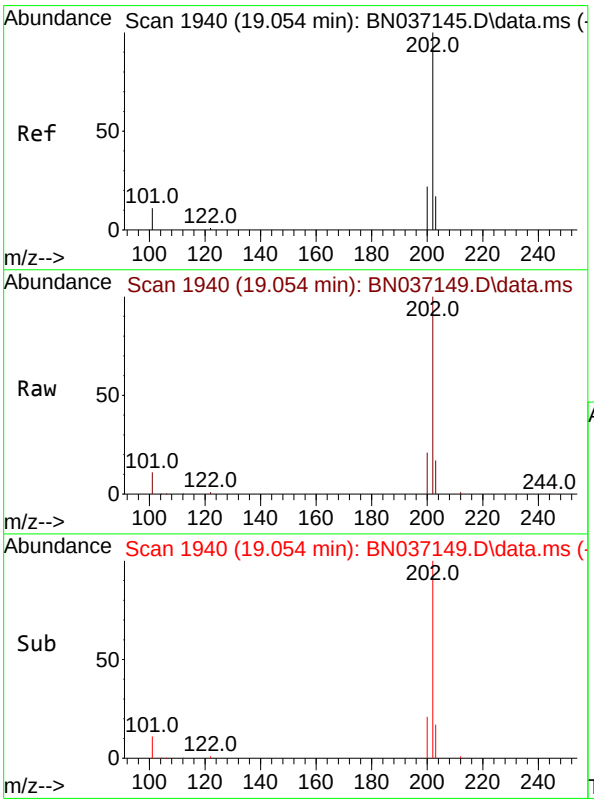
#27
Fluoranthene-d10
Concen: 5.482 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 94210

Ion	Ratio	Lower	Upper
212	100		
106	14.3	10.6	15.8
104	8.6	6.6	9.8

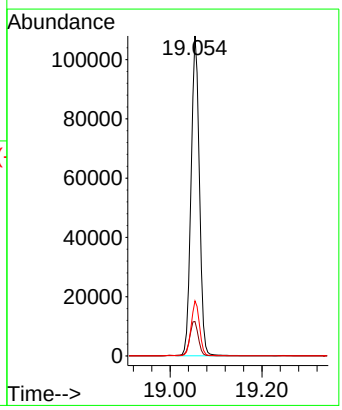


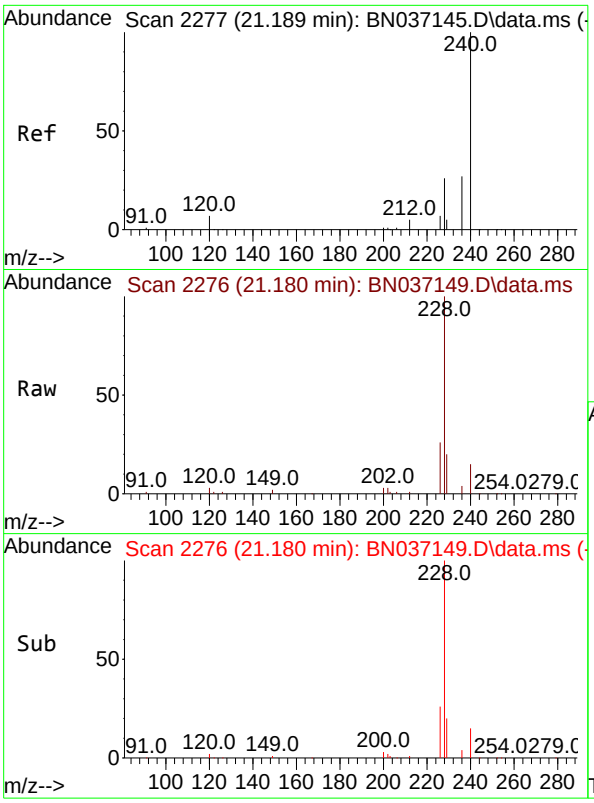


#28
Fluoranthene
Concen: 5.604 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:202 Resp: 135672

Ion	Ratio	Lower	Upper
202	100		
101	11.4	8.7	13.1
203	17.2	13.5	20.3



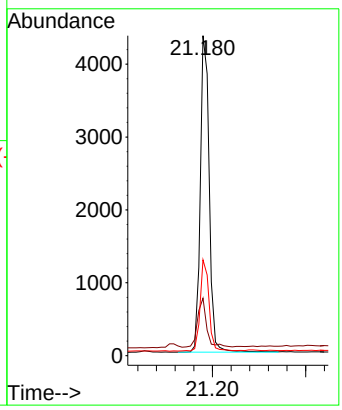


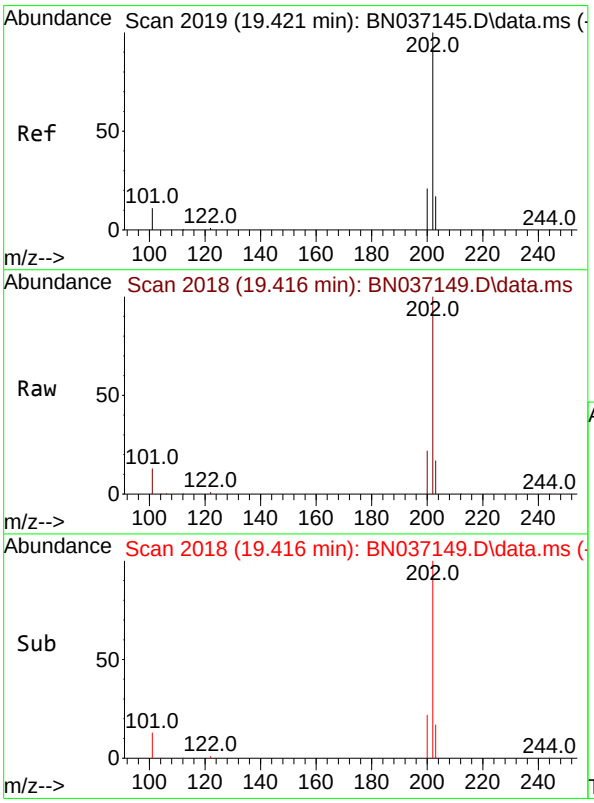
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 5784

Ion	Ratio	Lower	Upper
240	100		
120	18.0	9.0	13.4#
236	30.0	23.0	34.4

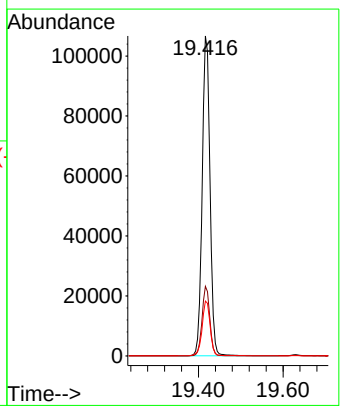


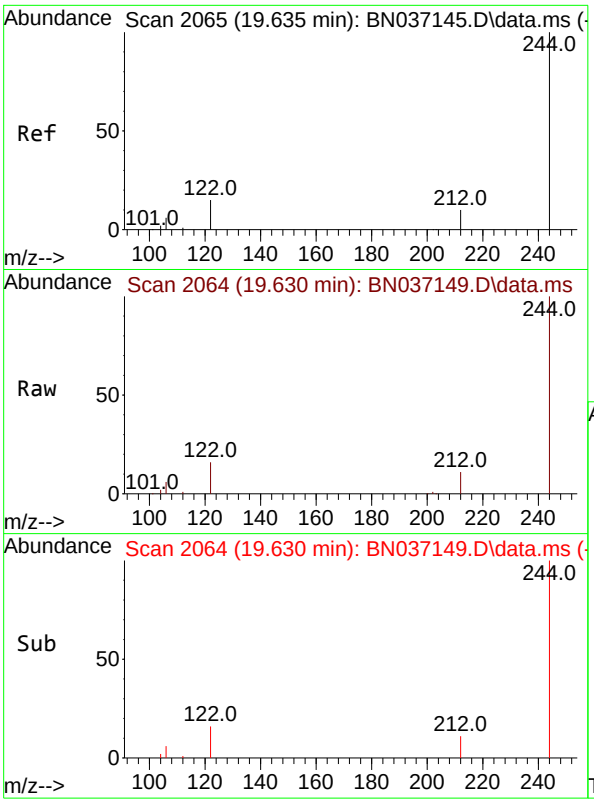


#30
Pyrene
Concen: 4.827 ng
RT: 19.416 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:202 Resp: 136281

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.6	14.2	21.4



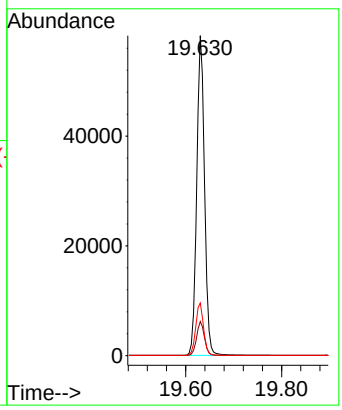


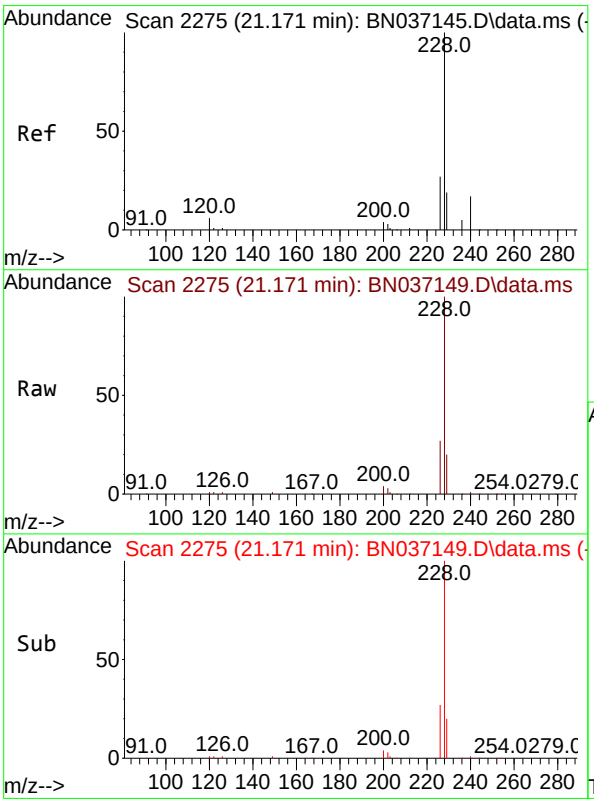
#31
Terphenyl-d14
Concen: 4.900 ng
RT: 19.630 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 66718

Ion	Ratio	Lower	Upper
244	100		
212	10.7	10.0	15.0
122	16.5	13.2	19.8

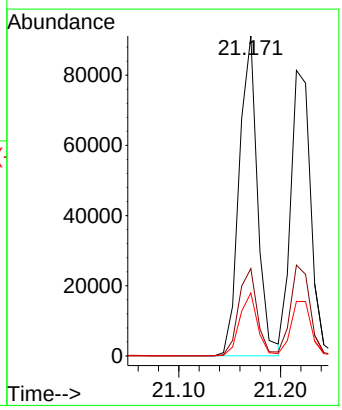


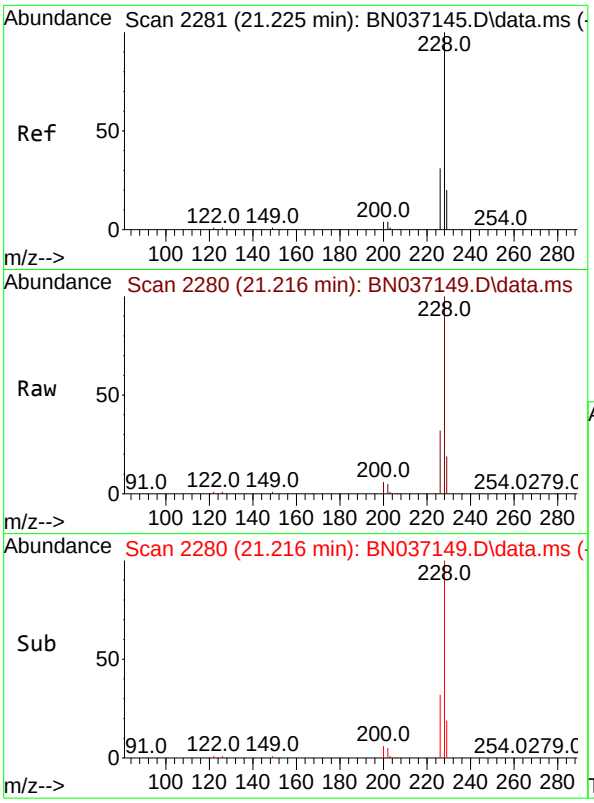


#32
Benzo(a)anthracene
Concen: 5.423 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:228 Resp: 113532

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.6	33.8
229	19.7	16.2	24.2



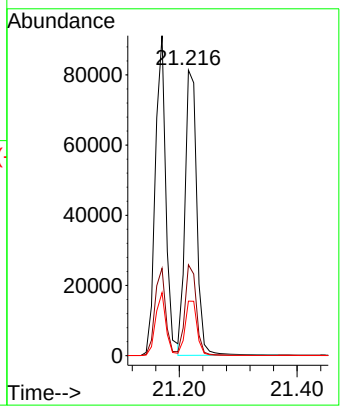


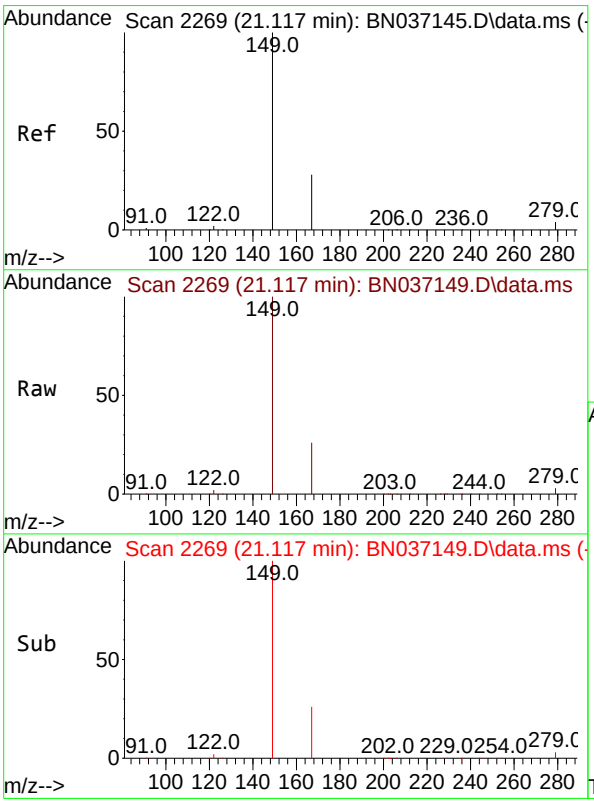
#33
Chrysene
Concen: 4.825 ng
RT: 21.216 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 112475

Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.2	37.8
229	19.1	16.8	25.2

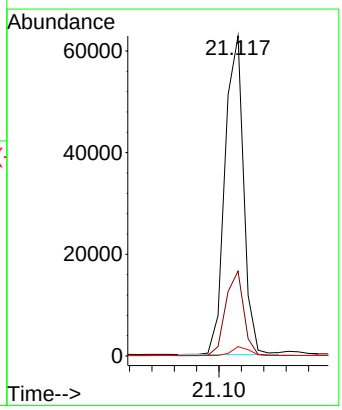


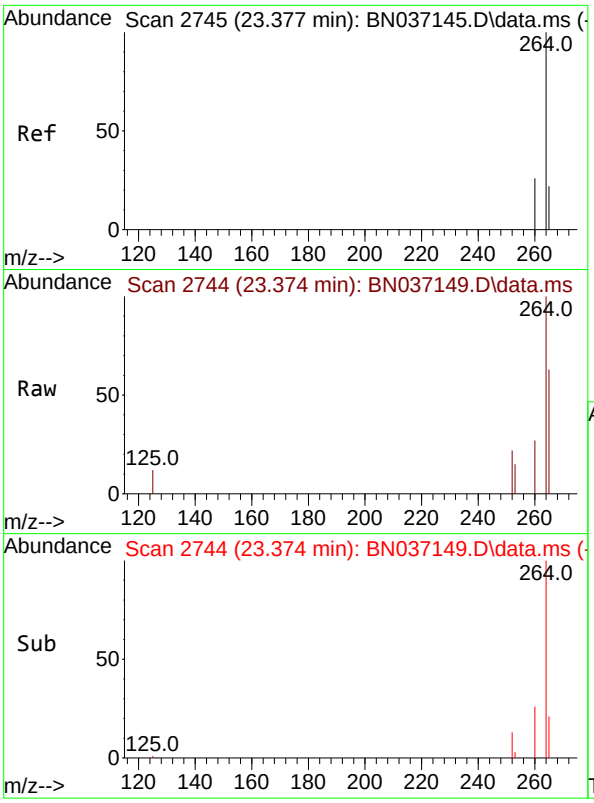


#34
Bis(2-ethylhexyl)phthalate
Concen: 5.486 ng
RT: 21.117 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:149 Resp: 72476

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.0	31.4
279	2.6	2.9	4.3#



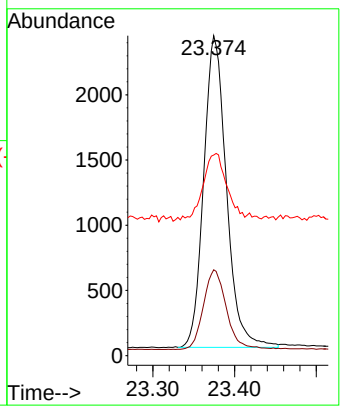


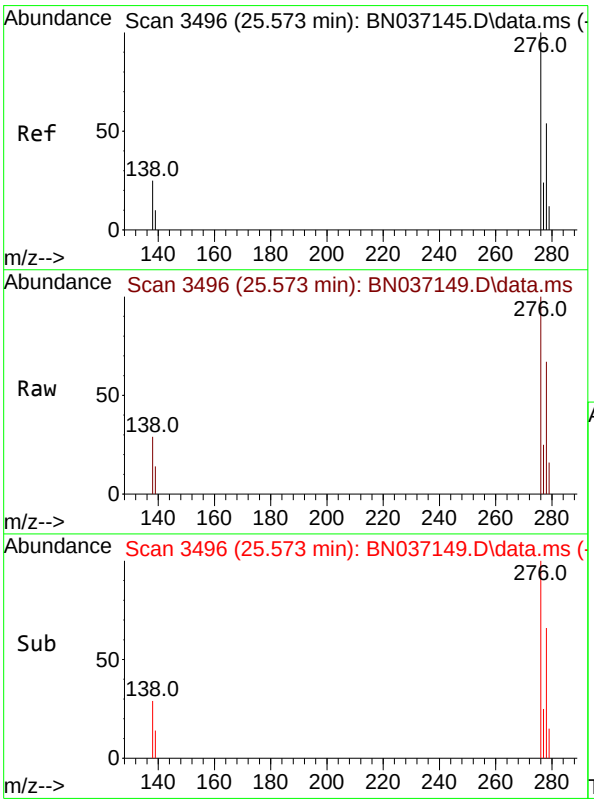
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.374 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 4620

Ion	Ratio	Lower	Upper
264	100		
260	26.9	22.1	33.1
265	62.7	55.8	83.8

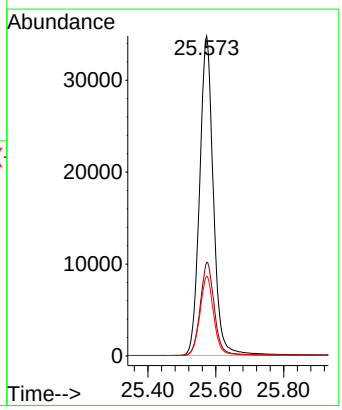


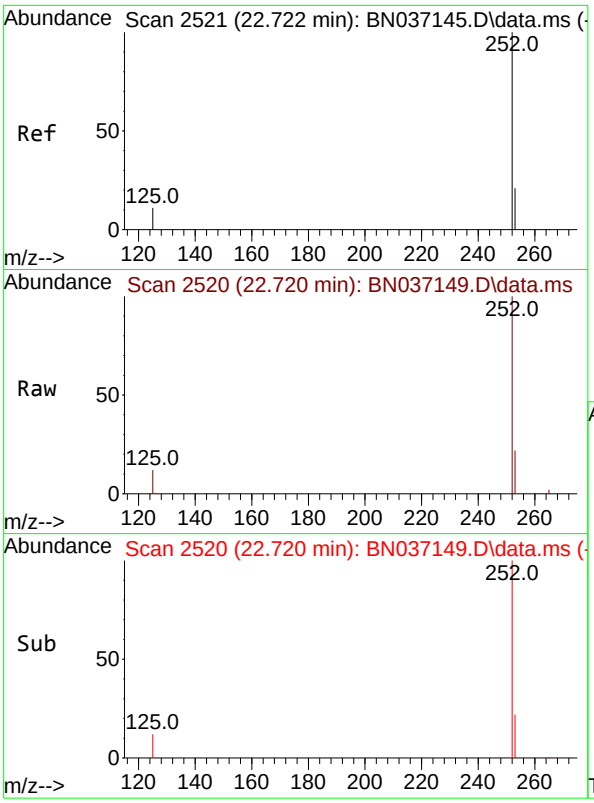


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.331 ng
RT: 25.573 min Scan# 3496
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:276 Resp: 97988

Ion	Ratio	Lower	Upper
276	100		
138	29.9	21.0	31.6
277	25.0	19.4	29.2



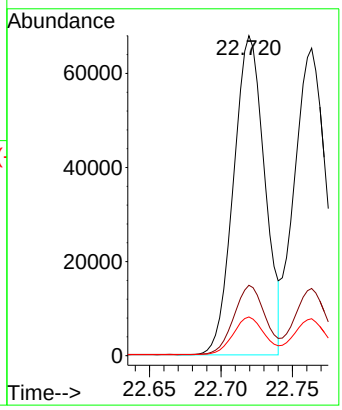


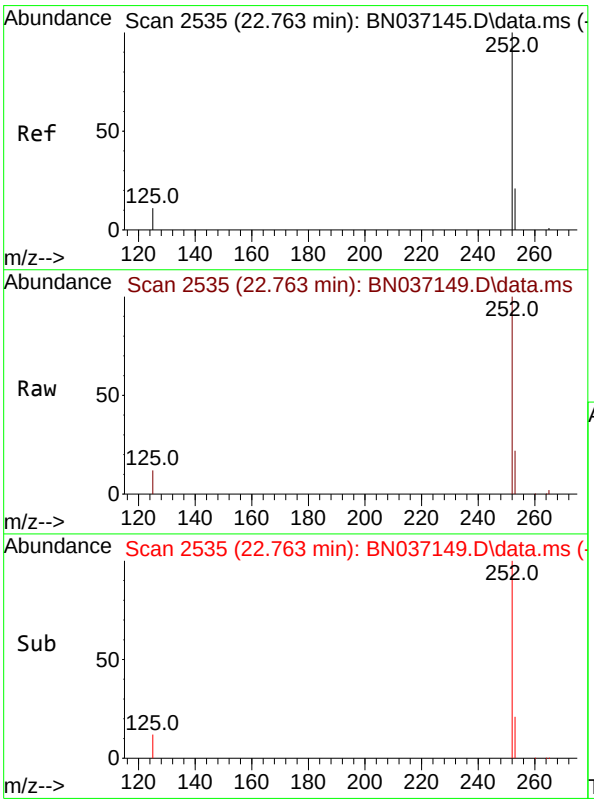
#37
Benzo(b)fluoranthene
Concen: 5.516 ng
RT: 22.720 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 102873

Ion	Ratio	Lower	Upper
252	100		
253	22.0	22.3	33.5#
125	12.1	13.2	19.8#

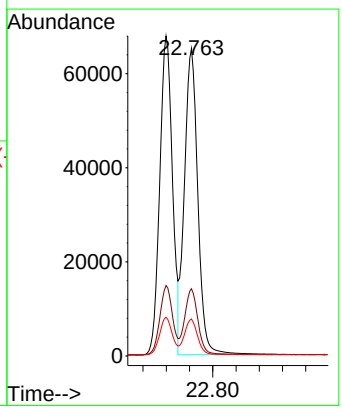


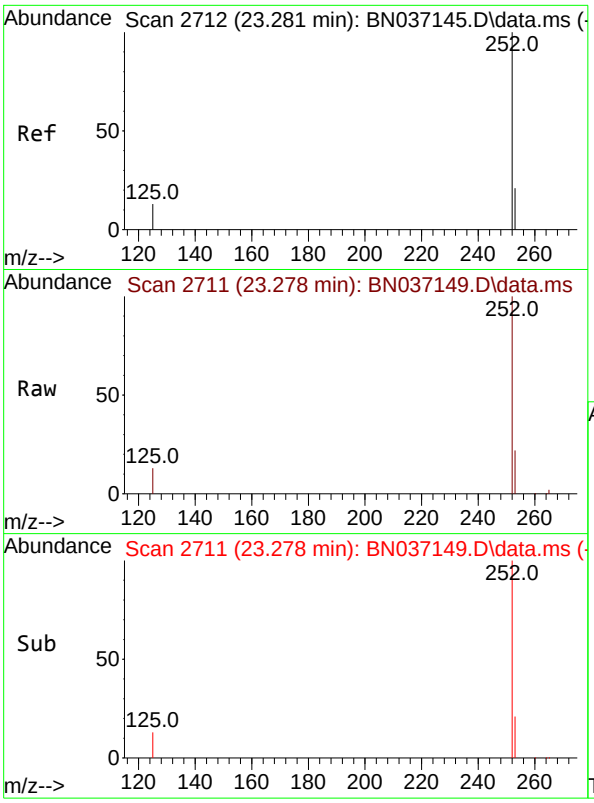


#38
Benzo(k)fluoranthene
Concen: 5.475 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.000 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:252 Resp: 104252

Ion	Ratio	Lower	Upper
252	100		
253	21.8	22.2	33.4#
125	12.0	13.2	19.8#



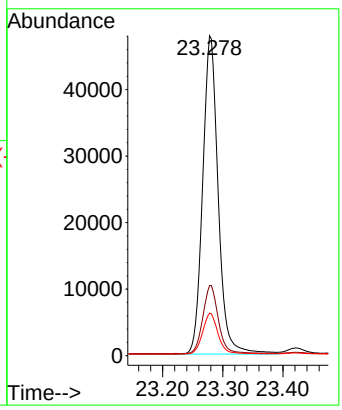


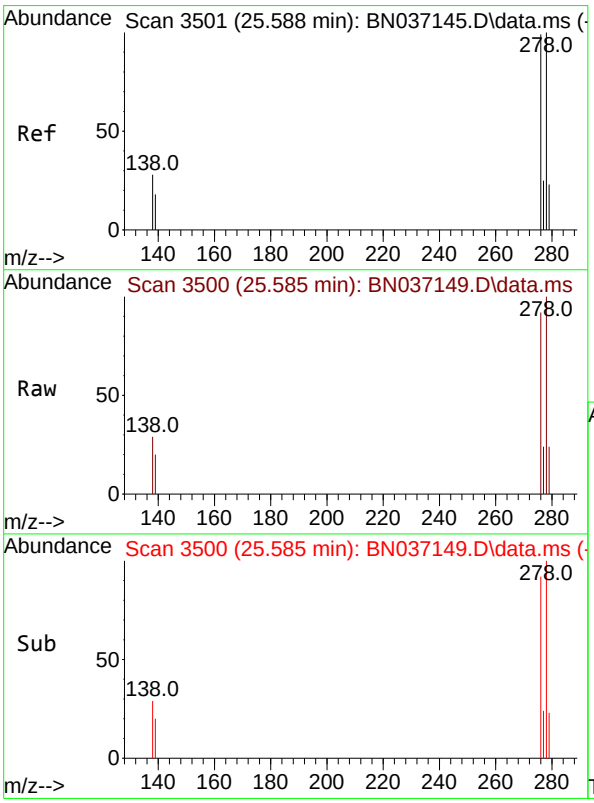
#39
Benzo(a)pyrene
Concen: 5.474 ng
RT: 23.278 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 85510

Ion	Ratio	Lower	Upper
252	100		
253	21.9	25.0	37.4#
125	13.3	17.0	25.6#

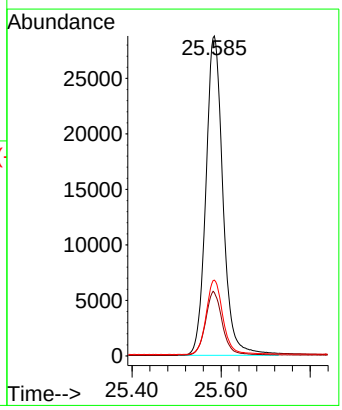


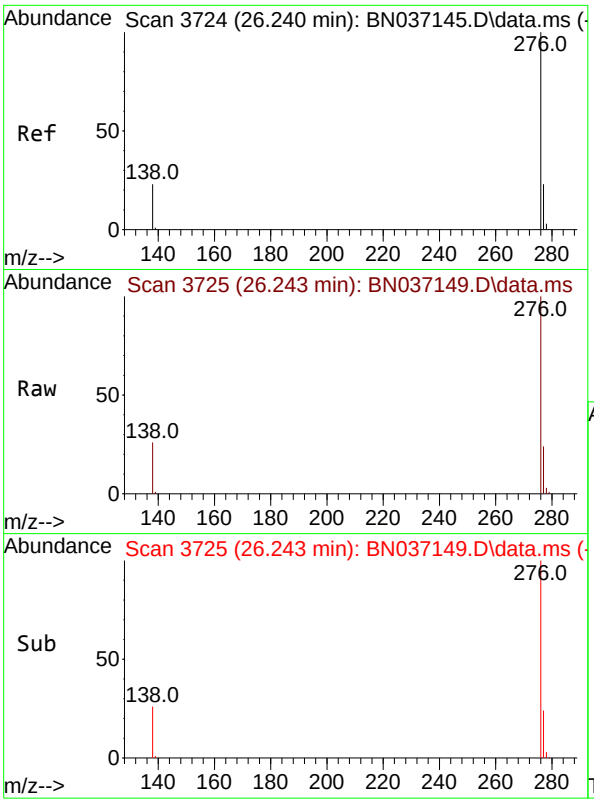


#40
Dibenzo(a,h)anthracene
Concen: 5.411 ng
RT: 25.585 min Scan# 3500
Delta R.T. -0.003 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Tgt Ion:278 Resp: 76694

Ion	Ratio	Lower	Upper
278	100		
139	19.8	17.6	26.4
279	23.7	26.0	39.0#



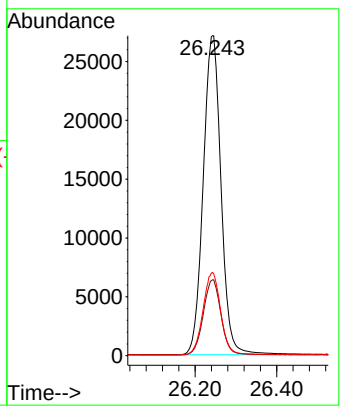


#41
Benzo(g,h,i)perylene
Concen: 5.054 ng
RT: 26.243 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037149.D
Acq: 03 Jun 2025 15:14

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 82277

Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.9	31.3
138	26.0	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037150.D
Acq On : 03 Jun 2025 15:53
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Quant Time: Jun 04 01:54:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.597	152	2254	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	5892	0.400	ng		0.00
13) Acenaphthene-d10	14.245	164	3320	0.400	ng		0.01
19) Phenanthrene-d10	16.984	188	6332	0.400	ng		0.00
29) Chrysene-d12	21.189	240	4292	0.400	ng		0.00
35) Perylene-d12	23.377	264	3564	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	2014	0.361	ng		0.00
5) Phenol-d6	6.773	99	2419	0.358	ng		0.00
8) Nitrobenzene-d5	8.739	82	2473	0.398	ng		0.00
11) 2-Methylnaphthalene-d10	11.971	152	3266	0.398	ng		0.00
14) 2,4,6-Tribromophenol	15.743	330	440	0.329	ng		0.00
15) 2-Fluorobiphenyl	12.858	172	5696	0.402	ng		0.00
27) Fluoranthene-d10	19.026	212	6037	0.375	ng		0.00
31) Terphenyl-d14	19.635	244	4196	0.415	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.119	88	1242	0.413	ng		98
3) n-Nitrosodimethylamine	3.437	42	2355	0.390	ng		100
6) bis(2-Chloroethyl)ether	7.026	93	2715	0.421	ng		100
9) Naphthalene	10.426	128	6699	0.394	ng		98
10) Hexachlorobutadiene	10.714	225	1489	0.402	ng	#	99
12) 2-Methylnaphthalene	12.047	142	3839	0.352	ng		96
16) Acenaphthylene	13.957	152	6575	0.404	ng		100
17) Acenaphthene	14.299	154	3940	0.373	ng		100
18) Fluorene	15.293	166	5182	0.373	ng		99
20) 4,6-Dinitro-2-methylph...	15.389	198	348	0.462	ng		84
21) 4-Bromophenyl-phenylether	16.189	248	1544	0.372	ng		98
22) Hexachlorobenzene	16.301	284	1743	0.389	ng		99
23) Atrazine	16.463	200	1282	0.374	ng		97
24) Pentachlorophenol	16.661	266	591	0.436	ng		97
25) Phenanthrene	17.033	178	7869	0.384	ng		100
26) Anthracene	17.120	178	7105	0.380	ng		99
28) Fluoranthene	19.054	202	8186	0.361	ng		99
30) Pyrene	19.421	202	8148	0.389	ng		99
32) Benzo(a)anthracene	21.171	228	5949	0.383	ng		99
33) Chrysene	21.224	228	6661	0.385	ng		99
34) Bis(2-ethylhexyl)phtha...	21.117	149	3635	0.371	ng		99
36) Indeno(1,2,3-cd)pyrene	25.573	276	5461	0.385	ng		100
37) Benzo(b)fluoranthene	22.720	252	5432	0.378	ng		100
38) Benzo(k)fluoranthene	22.763	252	5859	0.399	ng		100
39) Benzo(a)pyrene	23.281	252	4925	0.409	ng		99
40) Dibenzo(a,h)anthracene	25.588	278	4227	0.387	ng		100
41) Benzo(g,h,i)perylene	26.248	276	4620	0.368	ng		98

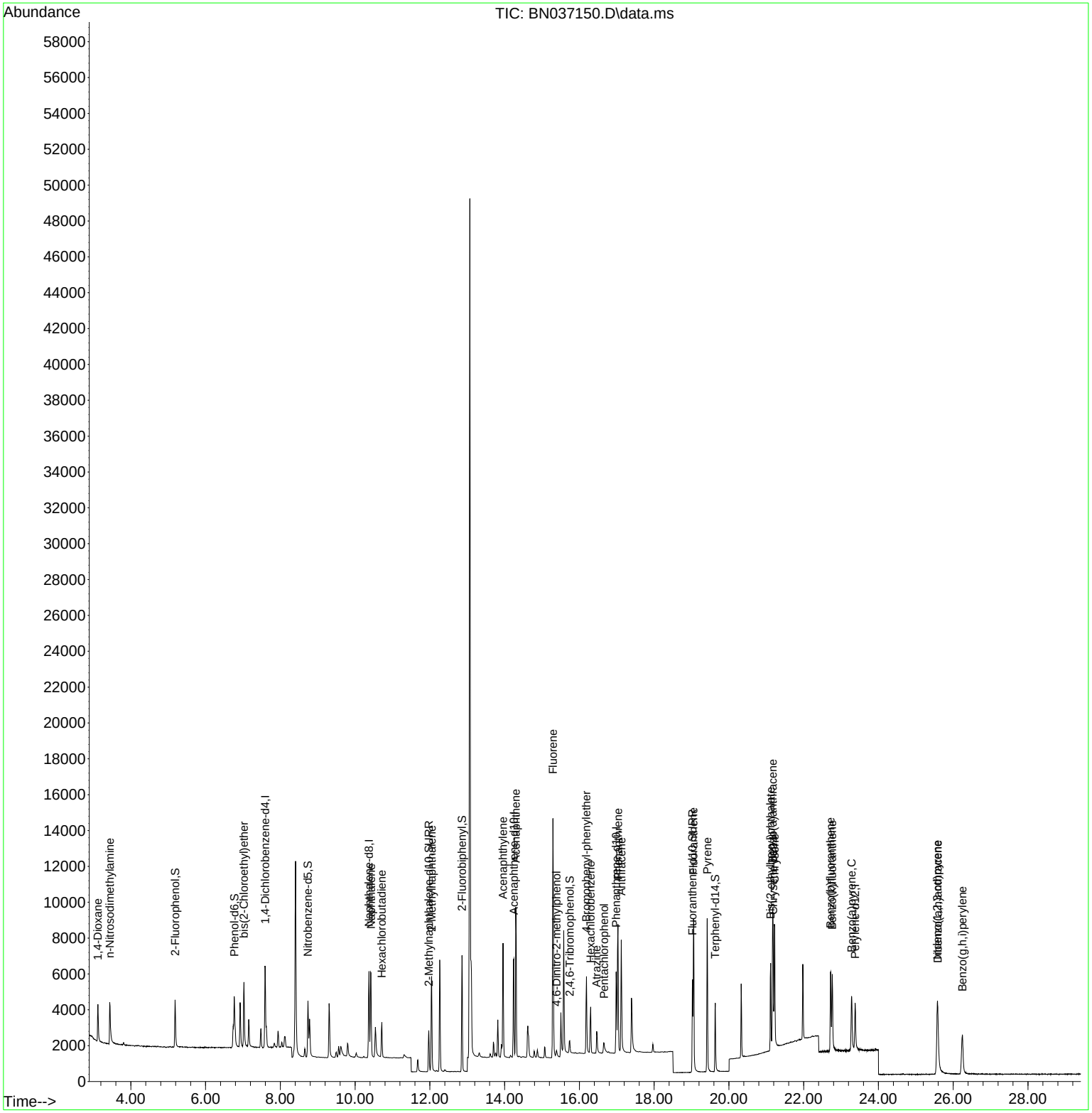
(#) = qualifier out of range (m) = manual integration (+) = signals summed

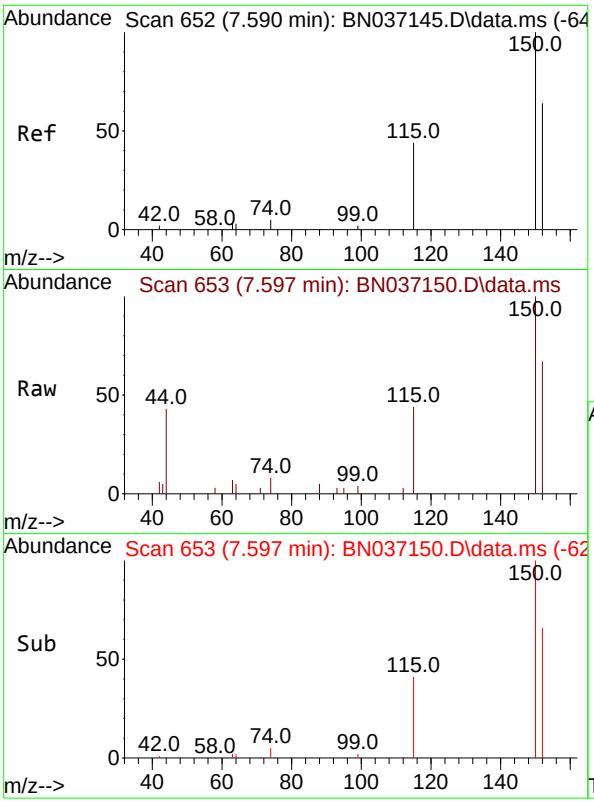
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037150.D
Acq On : 03 Jun 2025 15:53
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Quant Time: Jun 04 01:54:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration



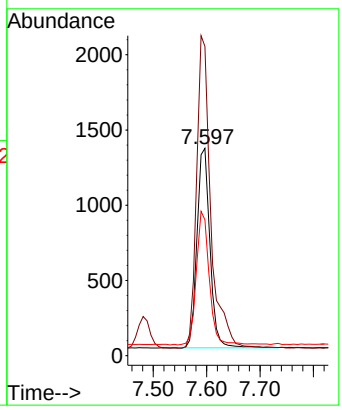


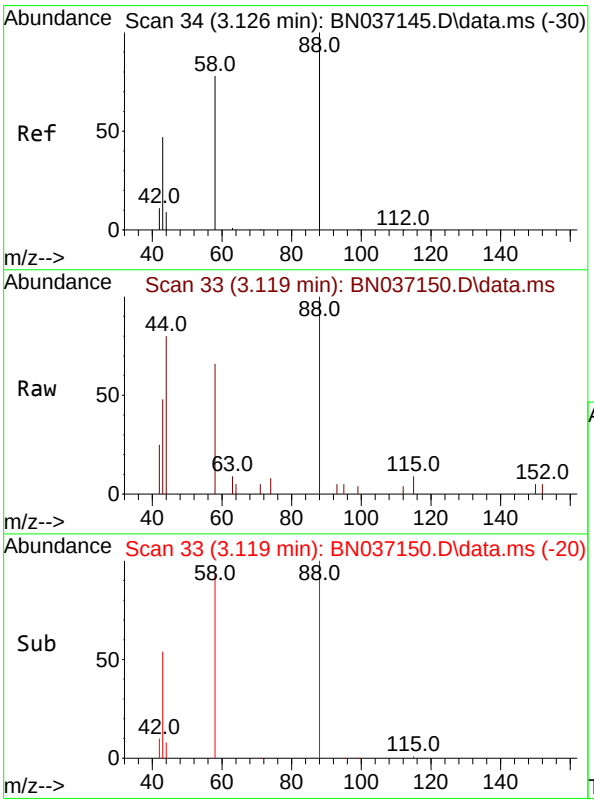
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.597 min Scan# 6
Delta R.T. 0.007 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:152 Resp: 2254

Ion	Ratio	Lower	Upper
152	100		
150	149.2	123.2	184.8
115	65.5	56.6	85.0

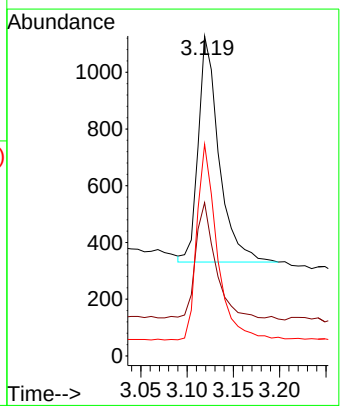


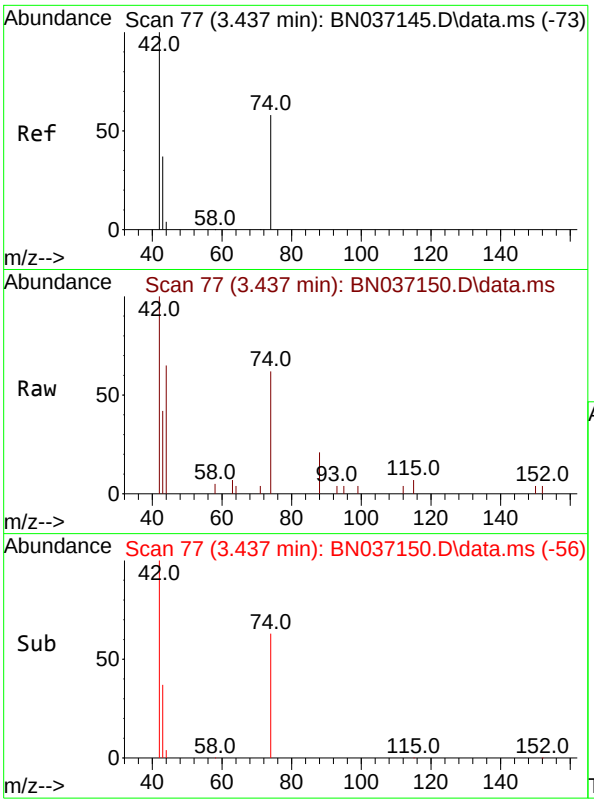


#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion: 88 Resp: 1242

Ion	Ratio	Lower	Upper
88	100		
43	50.8	43.5	65.3
58	84.5	67.7	101.5



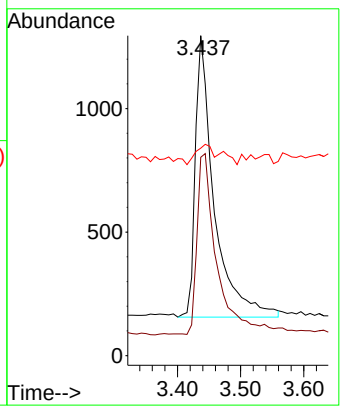


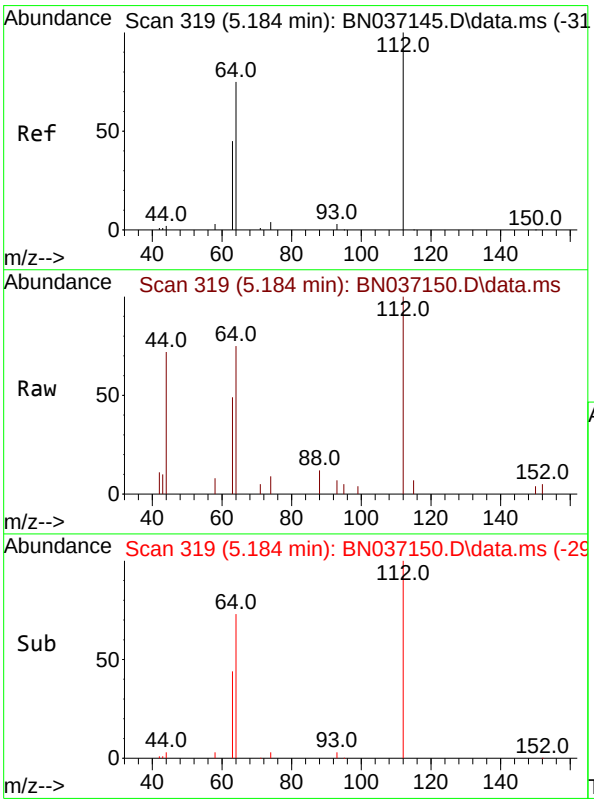
#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.437 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion: 42 Resp: 2355

Ion	Ratio	Lower	Upper
42	100		
74	66.5	53.0	79.4
44	6.9	5.9	8.9

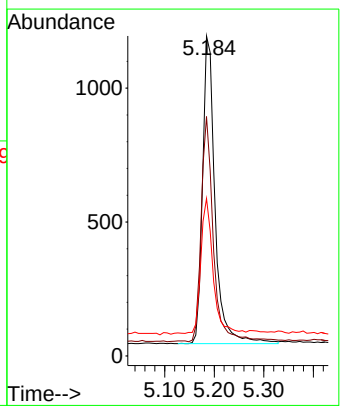


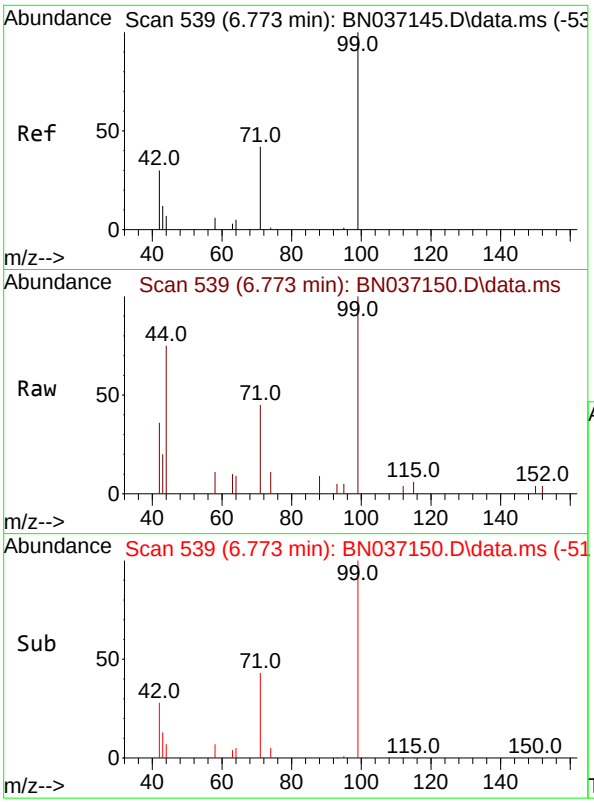


#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:112 Resp: 2014

Ion	Ratio	Lower	Upper
112	100		
64	72.0	56.3	84.5
63	42.3	36.2	54.4



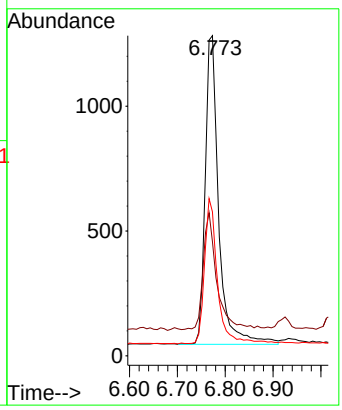


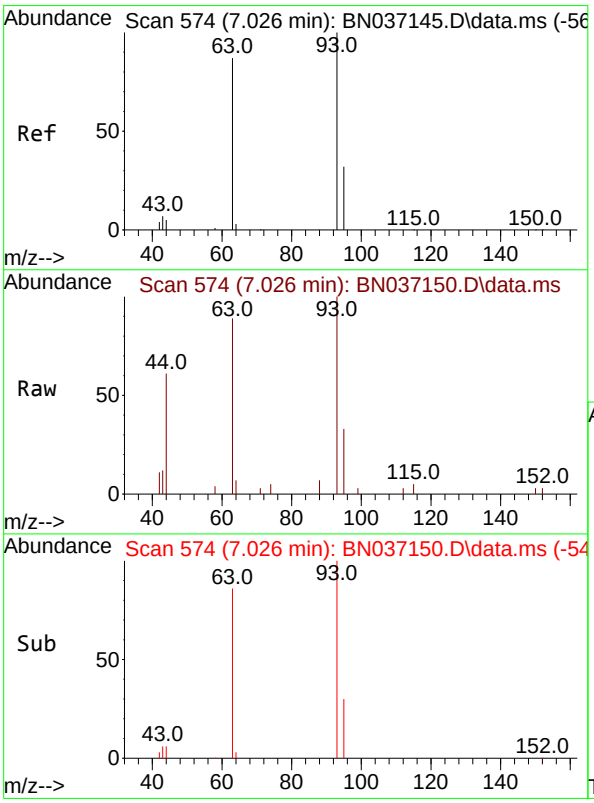
#5
Phenol-d6
Concen: 0.358 ng
RT: 6.773 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion: 99 Resp: 2419

Ion	Ratio	Lower	Upper
99	100		
42	38.5	31.3	46.9
71	45.7	38.2	57.2

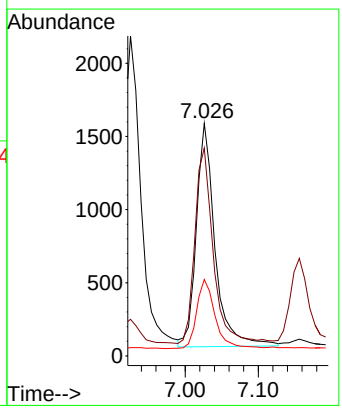


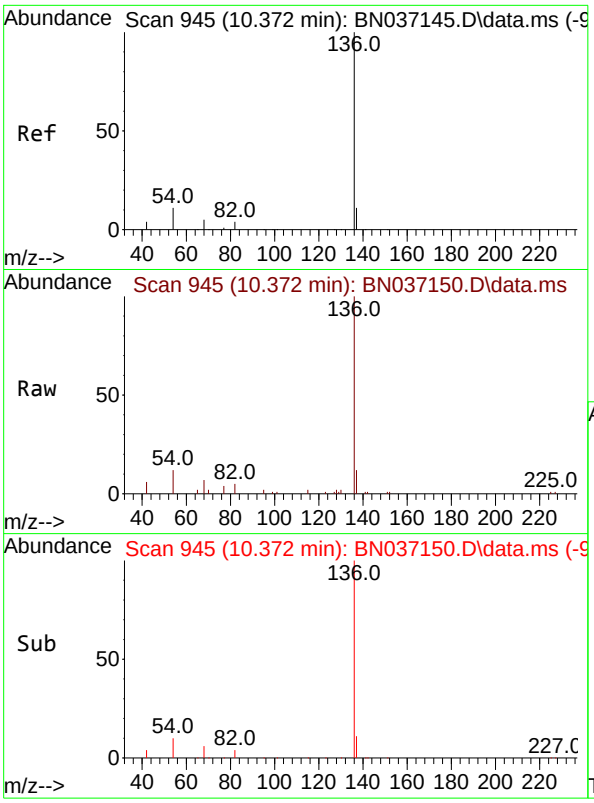


#6
bis(2-Chloroethyl)ether
Concen: 0.421 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion: 93 Resp: 2715

Ion	Ratio	Lower	Upper
93	100		
63	85.3	68.6	103.0
95	30.5	24.3	36.5



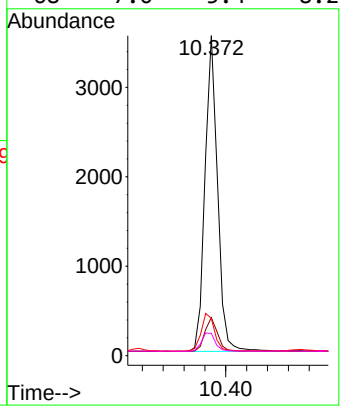


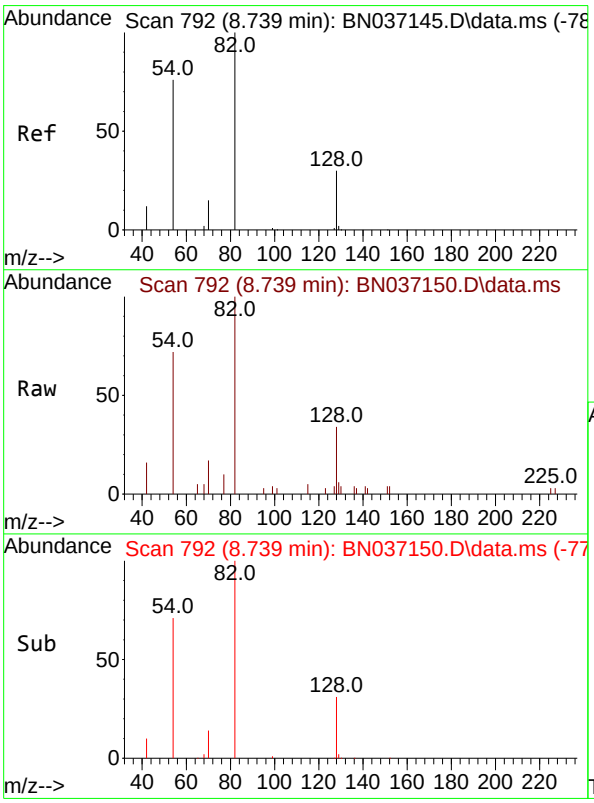
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:136 Resp: 5892

Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.7	14.5
54	11.7	9.7	14.5
68	7.0	5.4	8.2

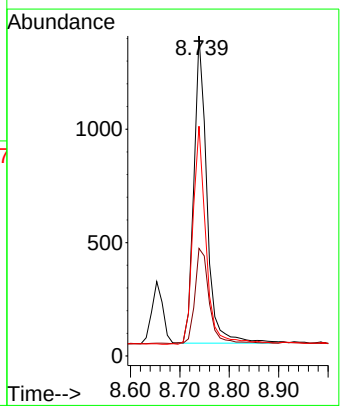


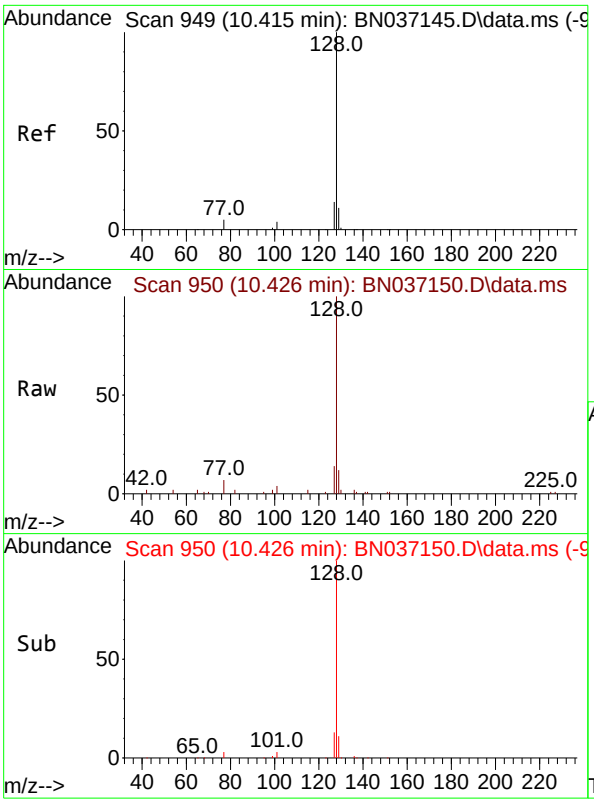


#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion: 82 Resp: 2473

Ion	Ratio	Lower	Upper
82	100		
128	33.6	26.9	40.3
54	71.8	61.4	92.2



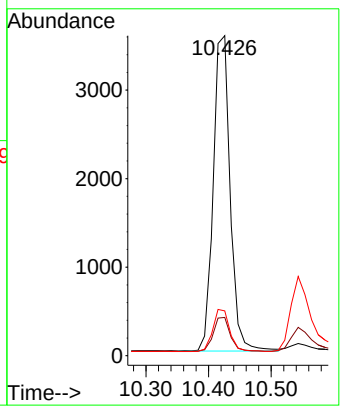


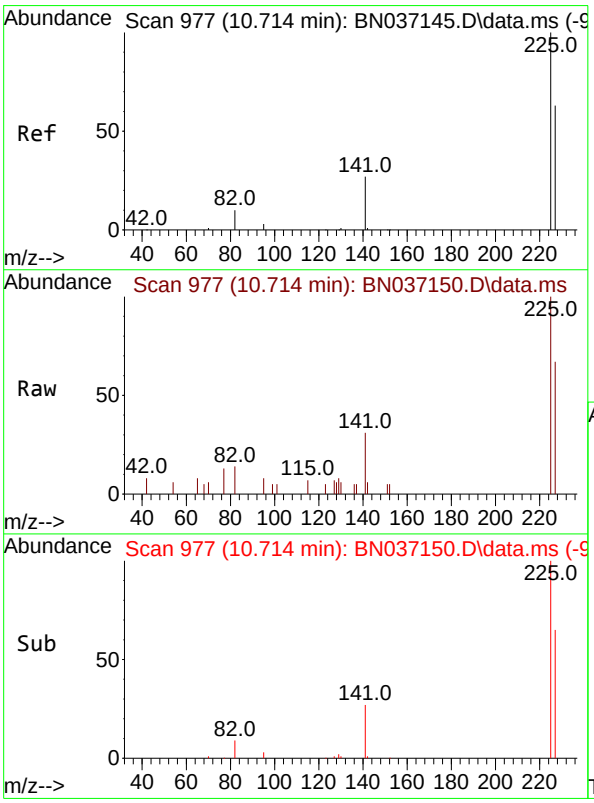
#9
Naphthalene
Concen: 0.394 ng
RT: 10.426 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:128 Resp: 6699

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.8
127	14.0	12.3	18.5

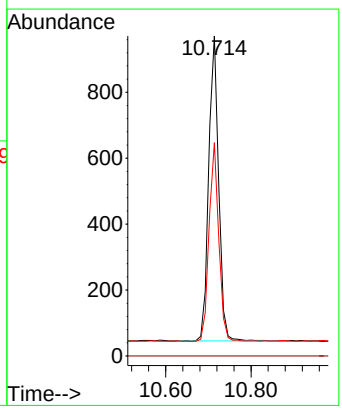


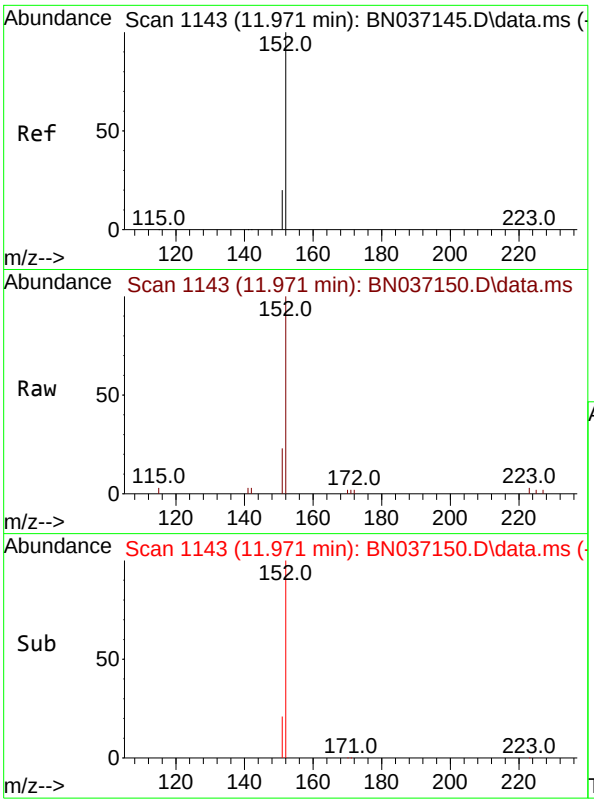


#10
Hexachlorobutadiene
Concen: 0.402 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:225 Resp: 1489

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.3	75.5



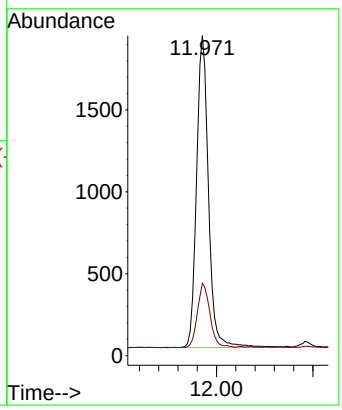


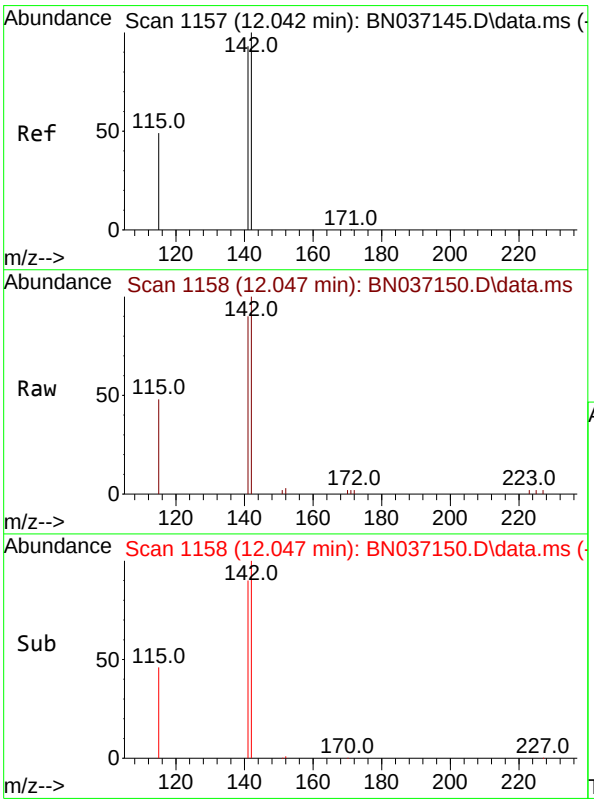
#11
2-Methylnaphthalene-d10
Concen: 0.398 ng
RT: 11.971 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:152 Resp: 3266

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.1	25.7

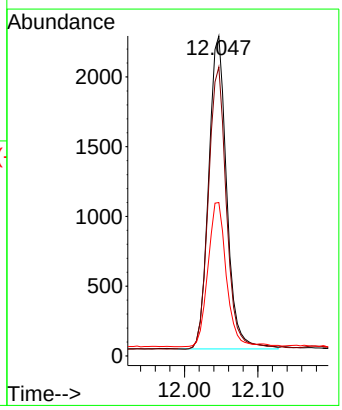


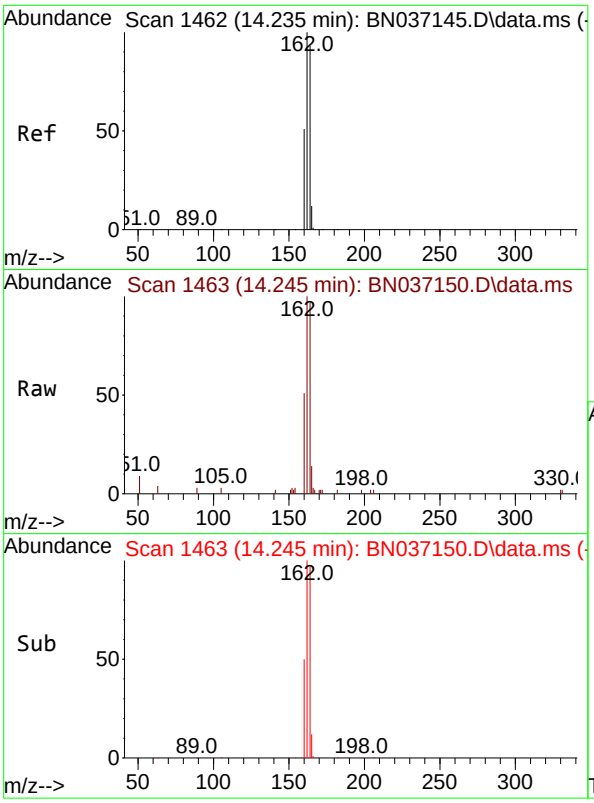


#12
2-Methylnaphthalene
Concen: 0.352 ng
RT: 12.047 min Scan# 1158
Delta R.T. 0.005 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:142 Resp: 3839

Ion	Ratio	Lower	Upper
142	100		
141	90.3	74.6	111.8
115	48.0	41.0	61.4



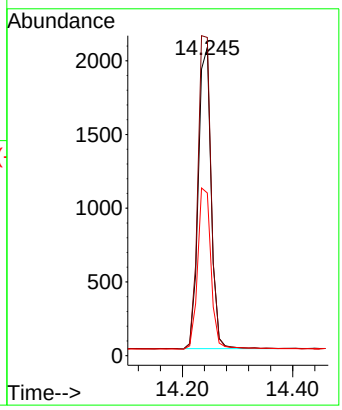


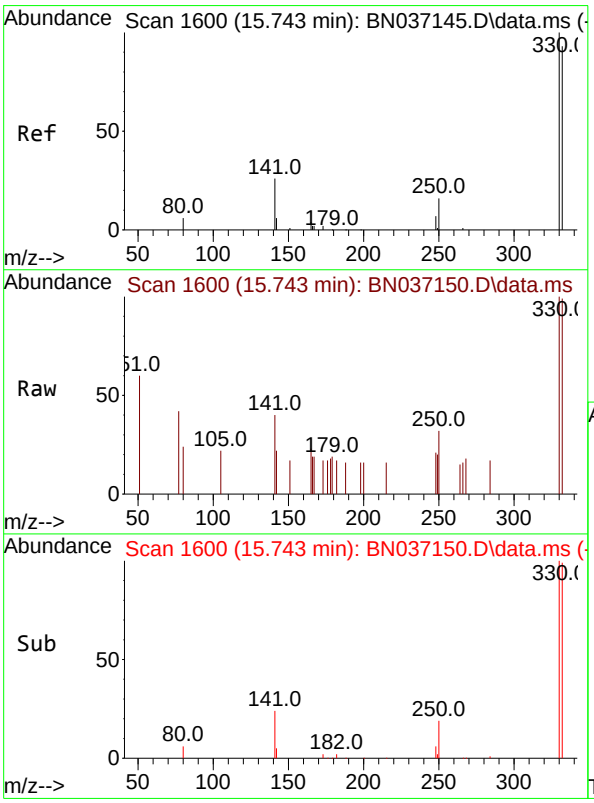
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.245 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:164 Resp: 3320

Ion	Ratio	Lower	Upper
164	100		
162	103.3	85.5	128.3
160	52.8	44.6	67.0

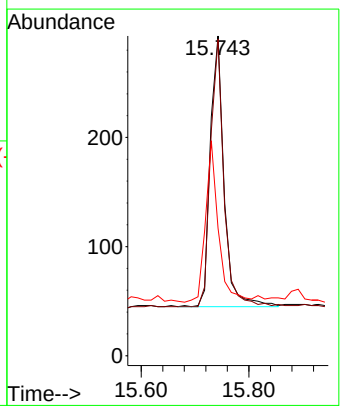


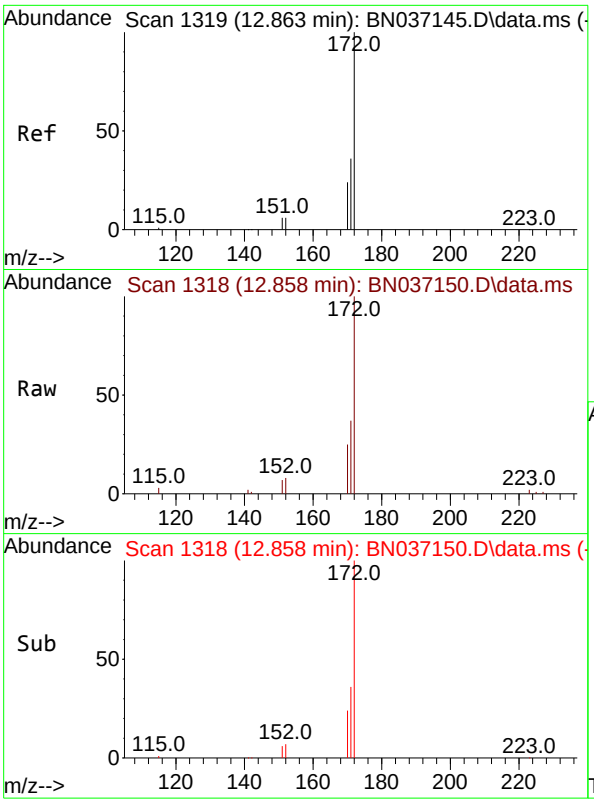


#14
2,4,6-Tribromophenol
Concen: 0.329 ng
RT: 15.743 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:330 Resp: 440

Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.1	115.7
141	55.9	46.4	69.6



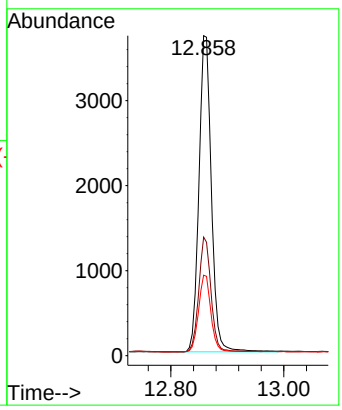


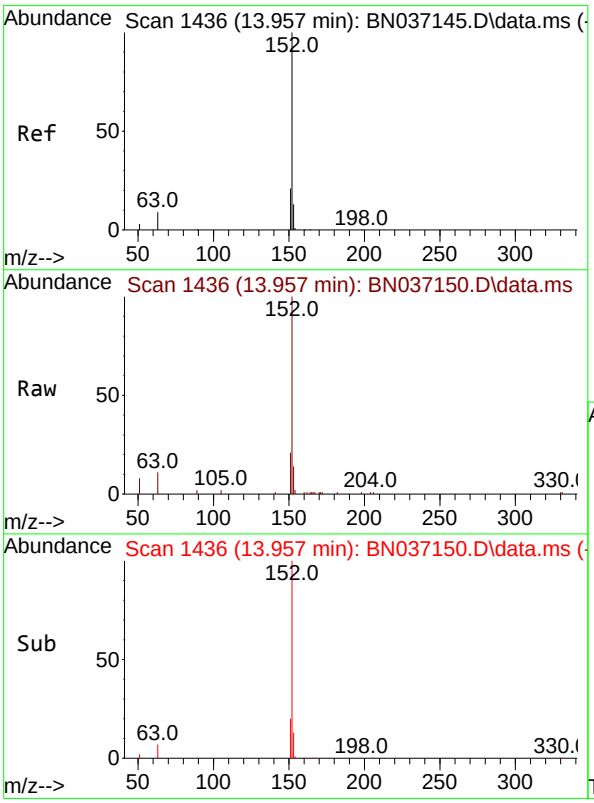
#15
2-Fluorobiphenyl
Concen: 0.402 ng
RT: 12.858 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:172 Resp: 5696

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.6	44.4
170	25.1	20.3	30.5

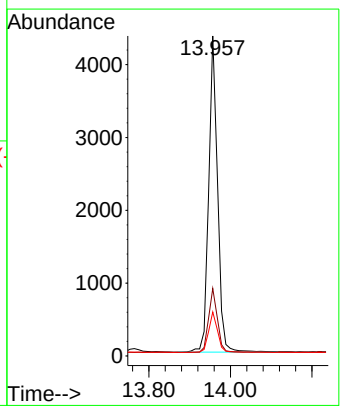


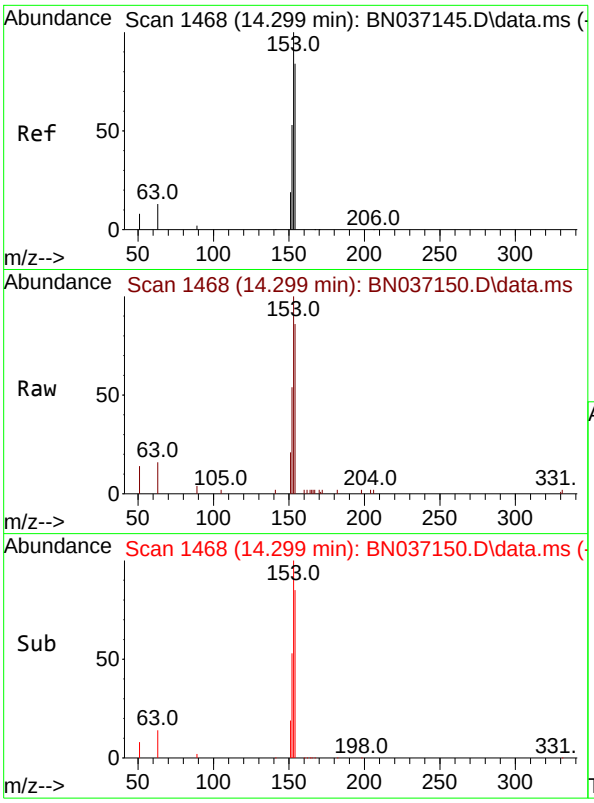


#16
Acenaphthylene
Concen: 0.404 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:152 Resp: 6575

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	13.1	10.6	15.8



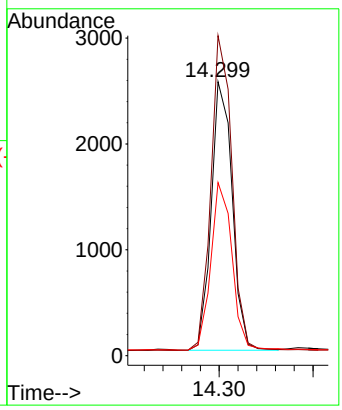


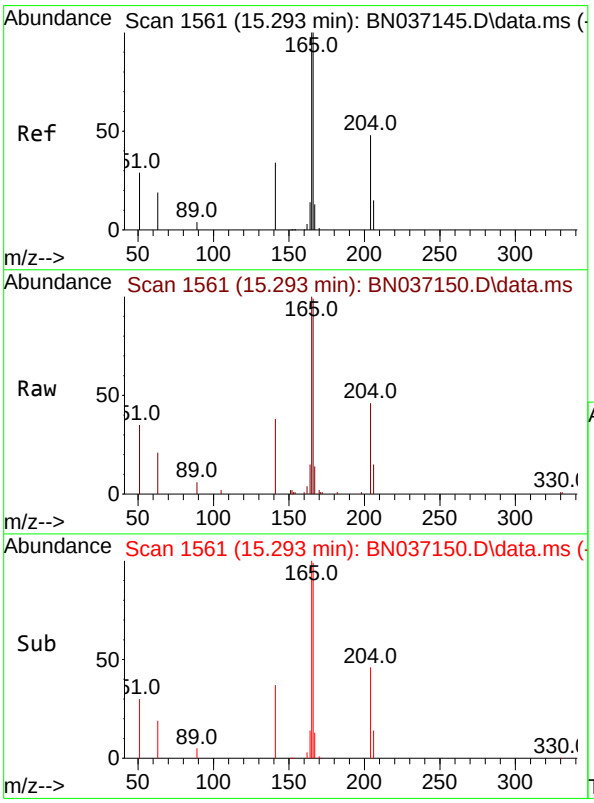
#17
Acenaphthene
Concen: 0.373 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:154 Resp: 3940

Ion	Ratio	Lower	Upper
154	100		
153	118.0	93.8	140.8
152	63.2	50.5	75.7

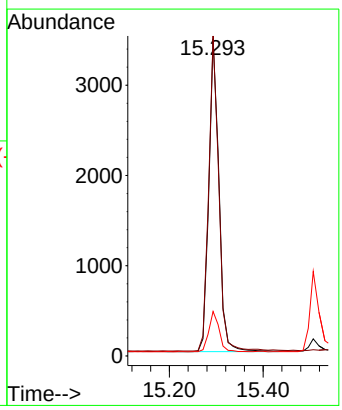


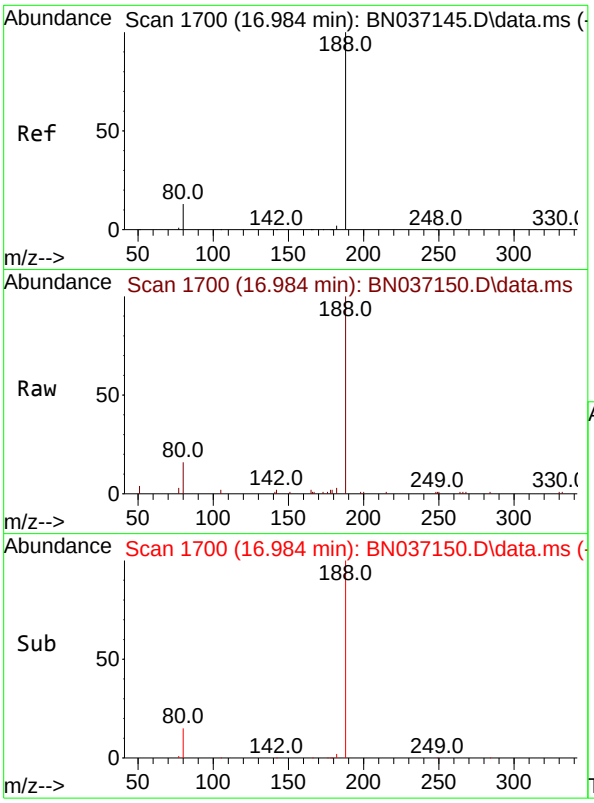


#18
Fluorene
Concen: 0.373 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:166 Resp: 5182

Ion	Ratio	Lower	Upper
166	100		
165	100.6	81.1	121.7
167	13.2	10.8	16.2



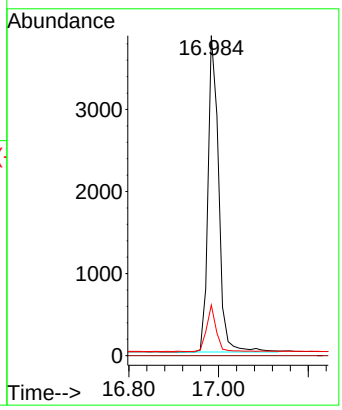


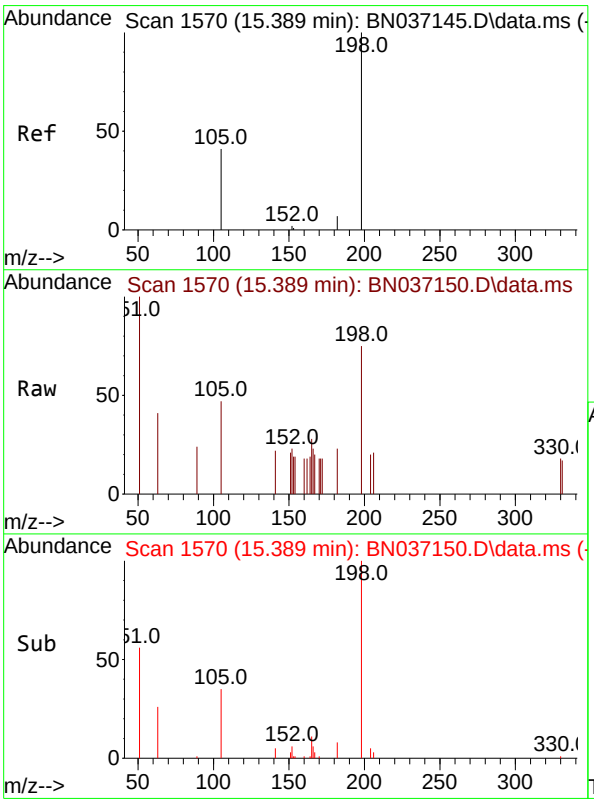
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:188 Resp: 6332

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.8	11.3	16.9

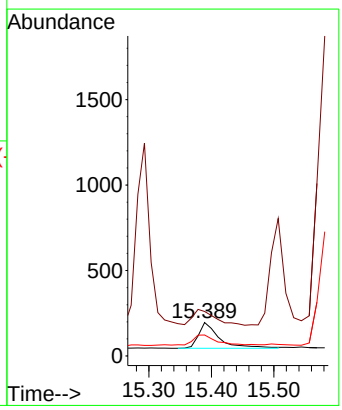


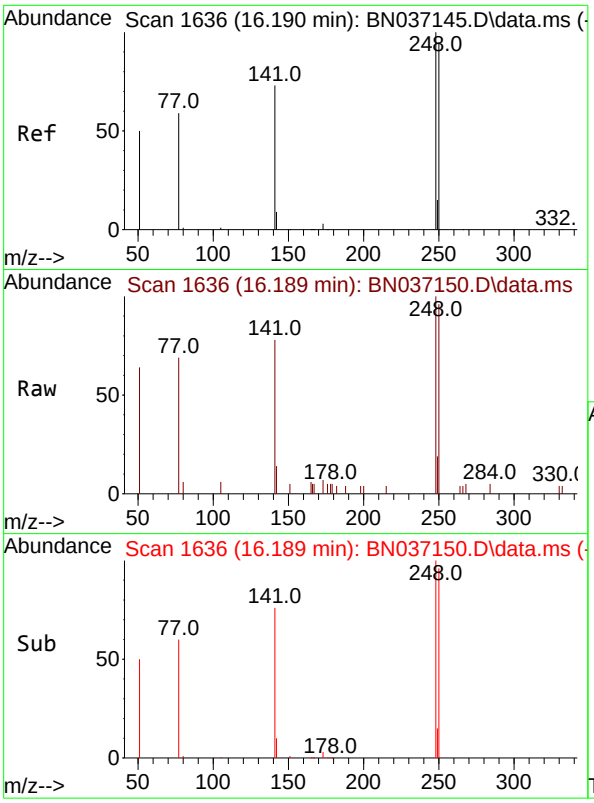


#20
4,6-Dinitro-2-methylphenol
Concen: 0.462 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:198 Resp: 348

Ion	Ratio	Lower	Upper
198	100		
51	132.7	125.2	187.8
105	62.8	57.1	85.7



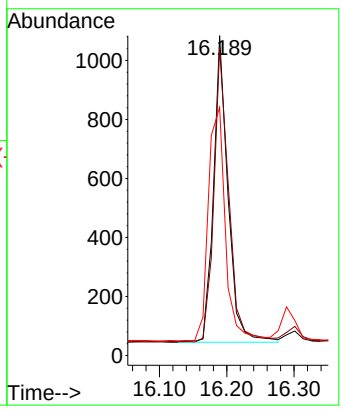


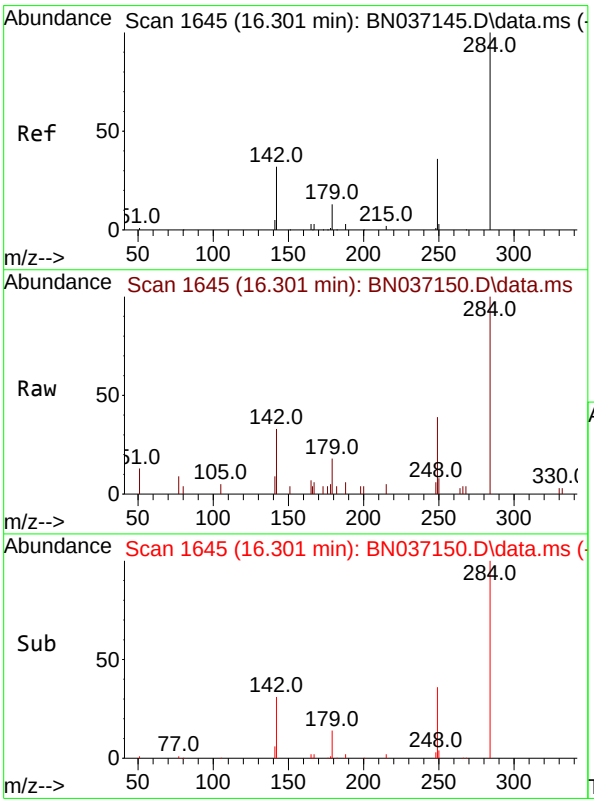
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:248 Resp: 1544

Ion	Ratio	Lower	Upper
248	100		
250	96.0	76.1	114.1
141	77.6	60.1	90.1

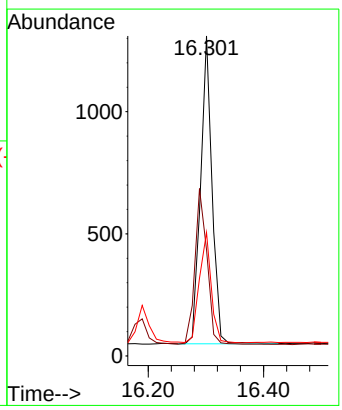


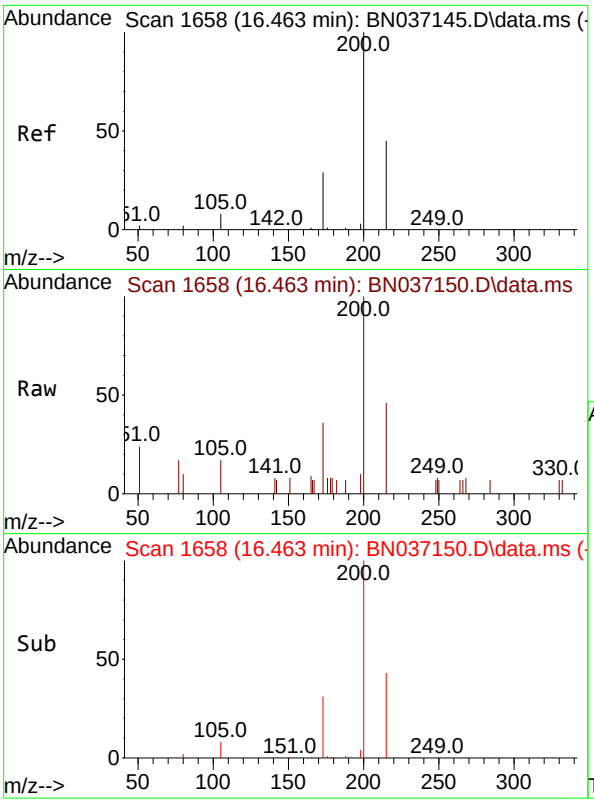


#22
Hexachlorobenzene
Concen: 0.389 ng
RT: 16.301 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:284 Resp: 1743

Ion	Ratio	Lower	Upper
284	100		
142	53.8	44.0	66.0
249	37.4	29.7	44.5



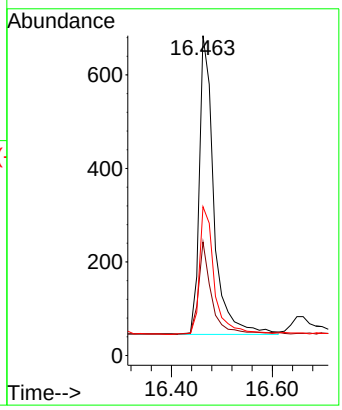


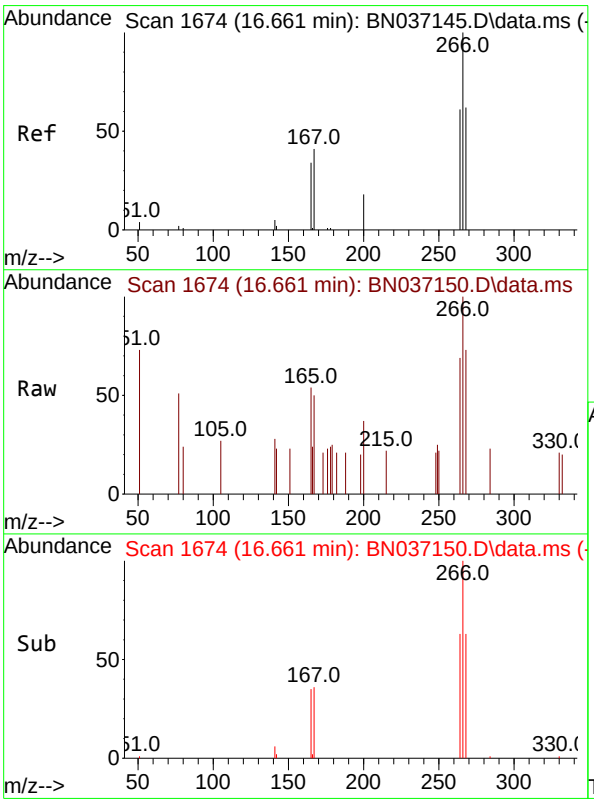
#23
Atrazine
Concen: 0.374 ng
RT: 16.463 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:200 Resp: 1282

Ion	Ratio	Lower	Upper
200	100		
173	35.5	28.1	42.1
215	46.5	39.3	58.9

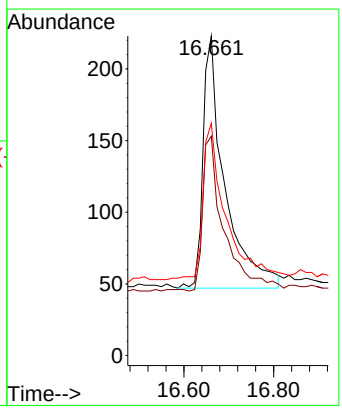


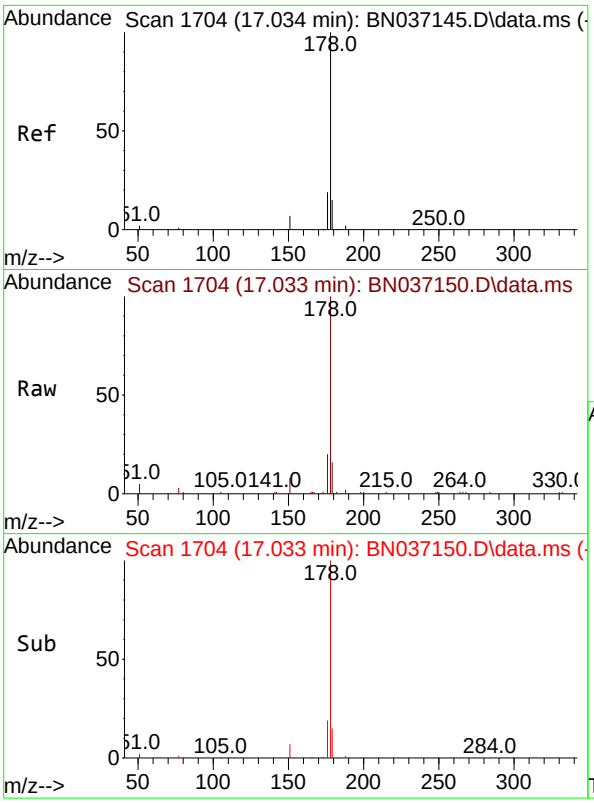


#24
Pentachlorophenol
Concen: 0.436 ng
RT: 16.661 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:266 Resp: 591

Ion	Ratio	Lower	Upper
266	100		
264	60.2	49.3	73.9
268	64.0	49.0	73.4



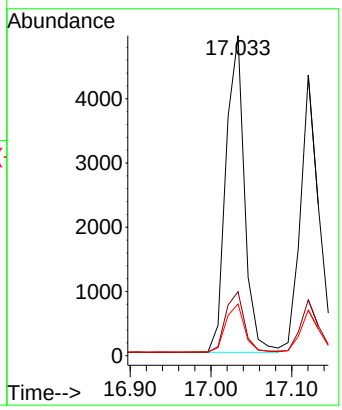


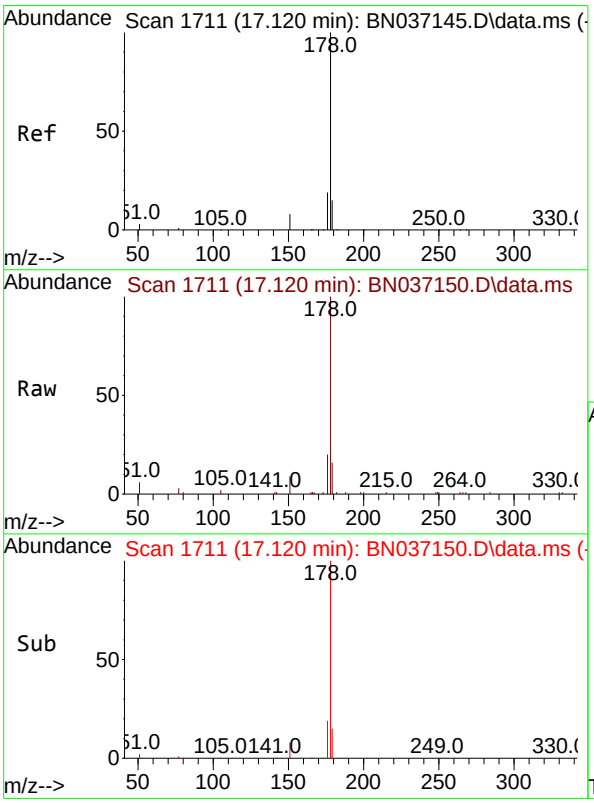
#25
Phenanthrene
Concen: 0.384 ng
RT: 17.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:178 Resp: 7869

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.7	12.3	18.5

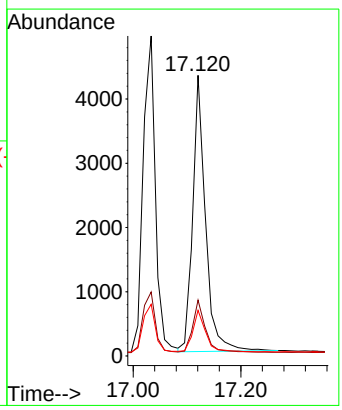


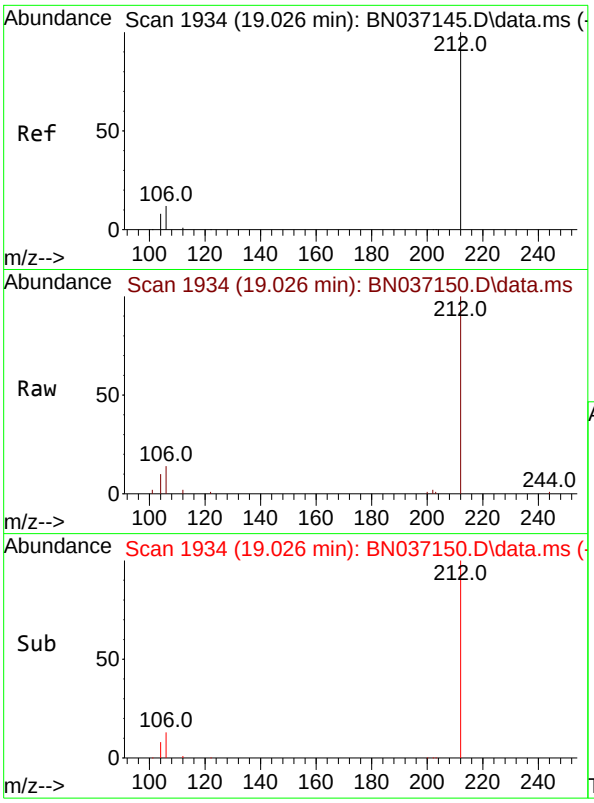


#26
Anthracene
Concen: 0.380 ng
RT: 17.120 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:178 Resp: 7105

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.5	12.9	19.3



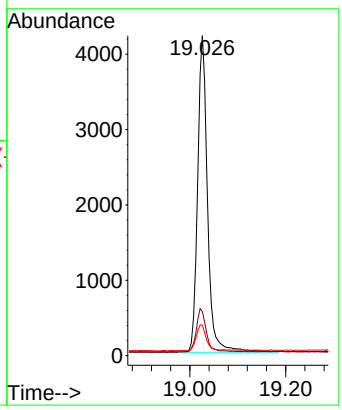


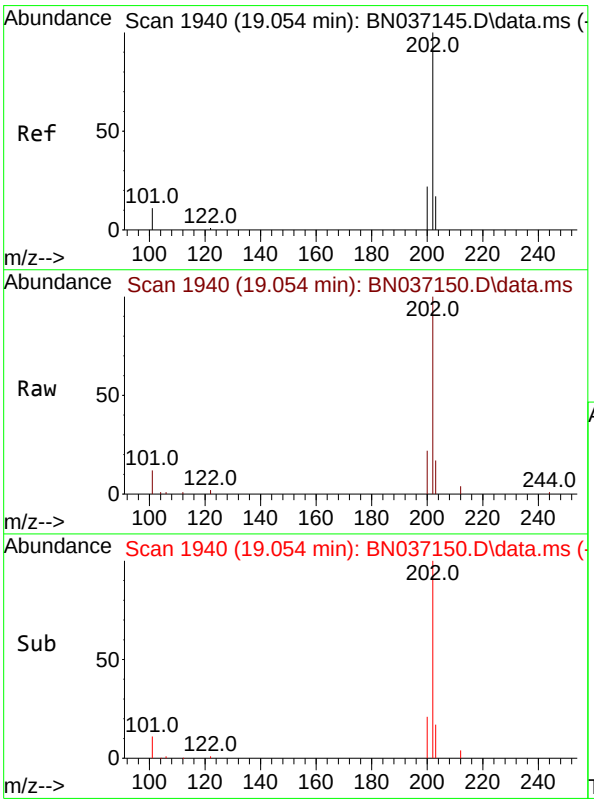
#27
Fluoranthene-d10
Concen: 0.375 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:212 Resp: 6037

Ion	Ratio	Lower	Upper
212	100		
106	13.7	10.6	15.8
104	8.2	6.6	9.8

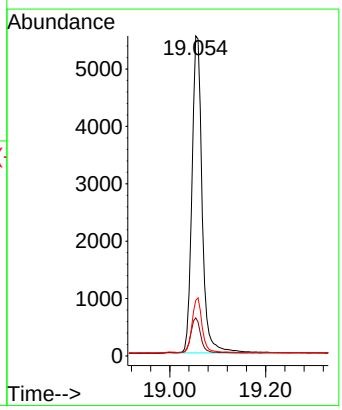


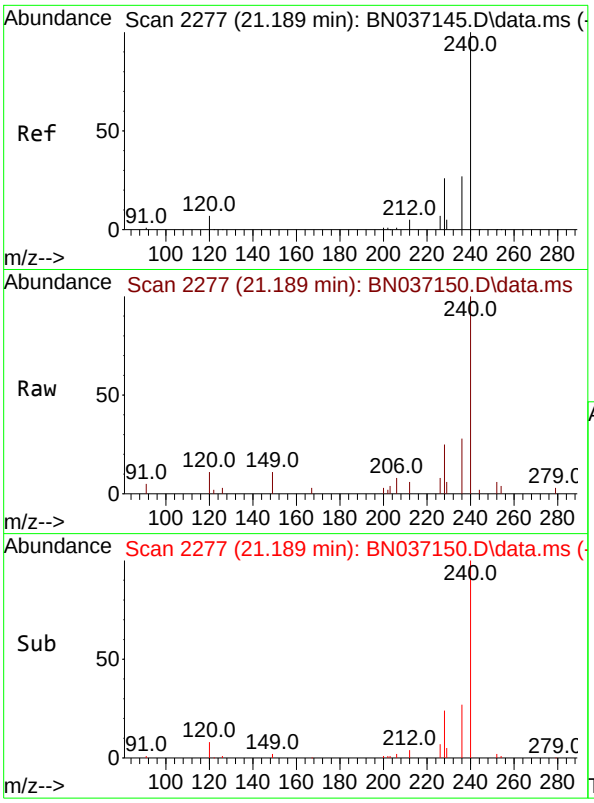


#28
Fluoranthene
Concen: 0.361 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:202 Resp: 8186

Ion	Ratio	Lower	Upper
202	100		
101	11.4	8.7	13.1
203	16.7	13.5	20.3



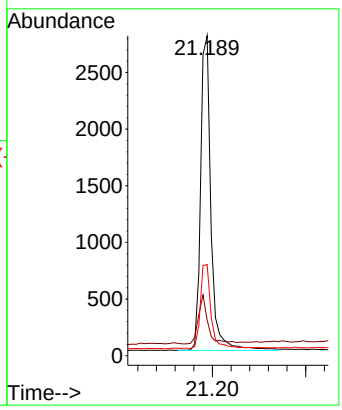


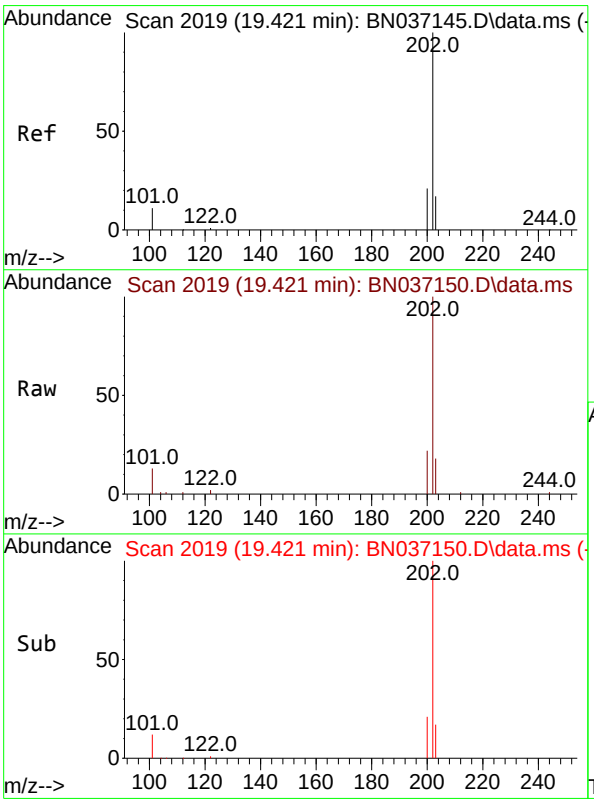
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:240 Resp: 4292

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	28.5	23.0	34.4

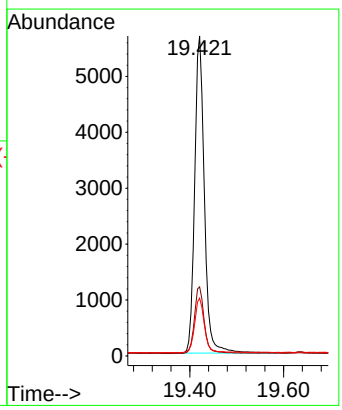


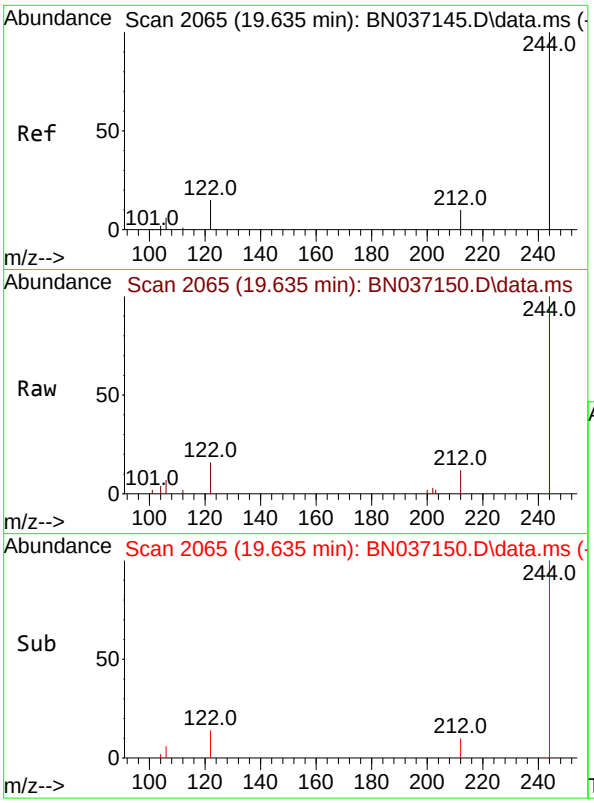


#30
Pyrene
Concen: 0.389 ng
RT: 19.421 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:202 Resp: 8148

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.6
203	17.3	14.2	21.4



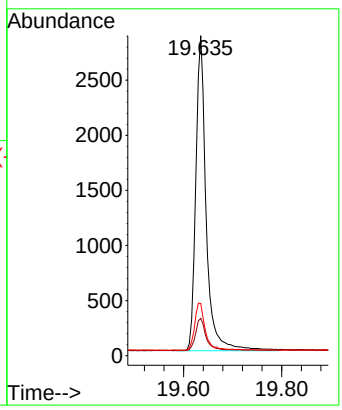


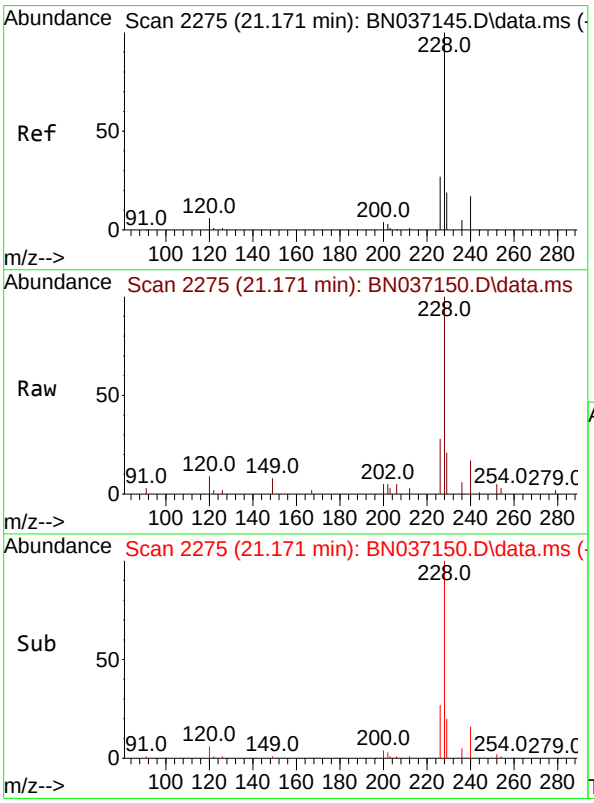
#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.635 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:244 Resp: 4196

Ion	Ratio	Lower	Upper
244	100		
212	11.6	10.0	15.0
122	16.3	13.2	19.8

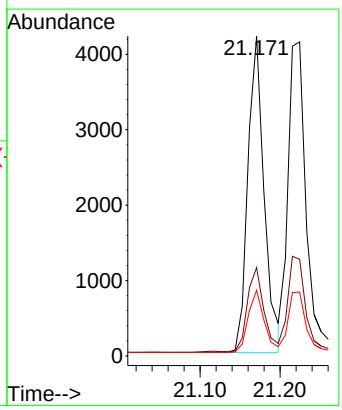


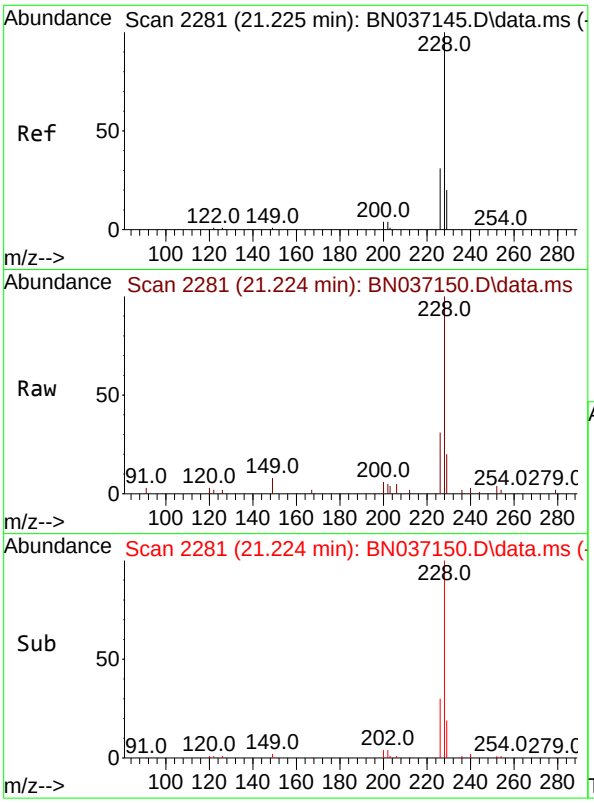


#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:228 Resp: 5949

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.6	33.8
229	20.5	16.2	24.2



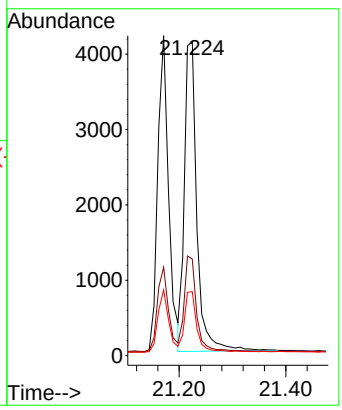


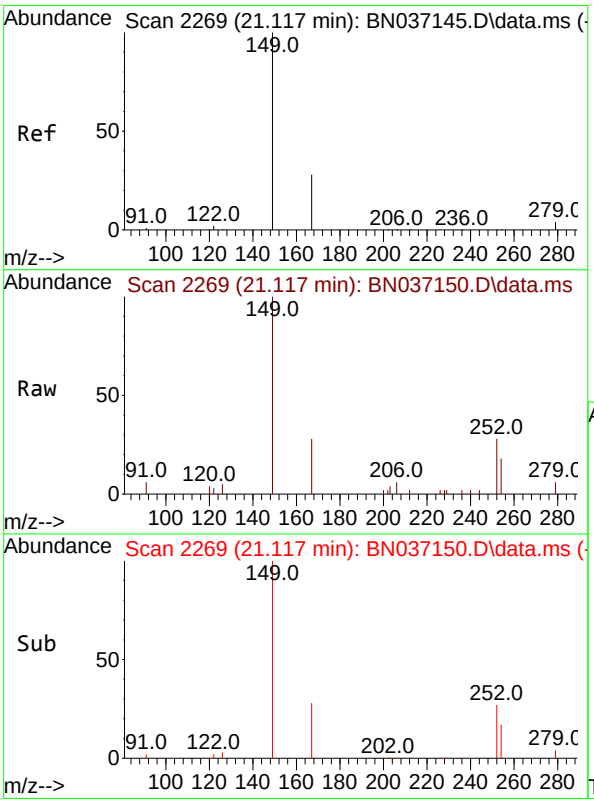
#33
Chrysene
Concen: 0.385 ng
RT: 21.224 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:228 Resp: 6661

Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.2	37.8
229	20.4	16.8	25.2

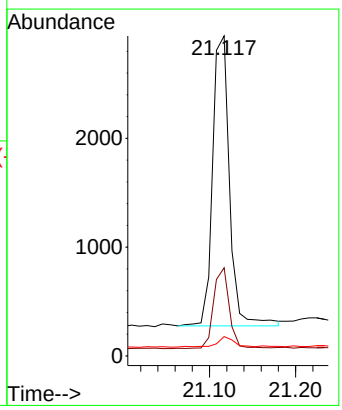


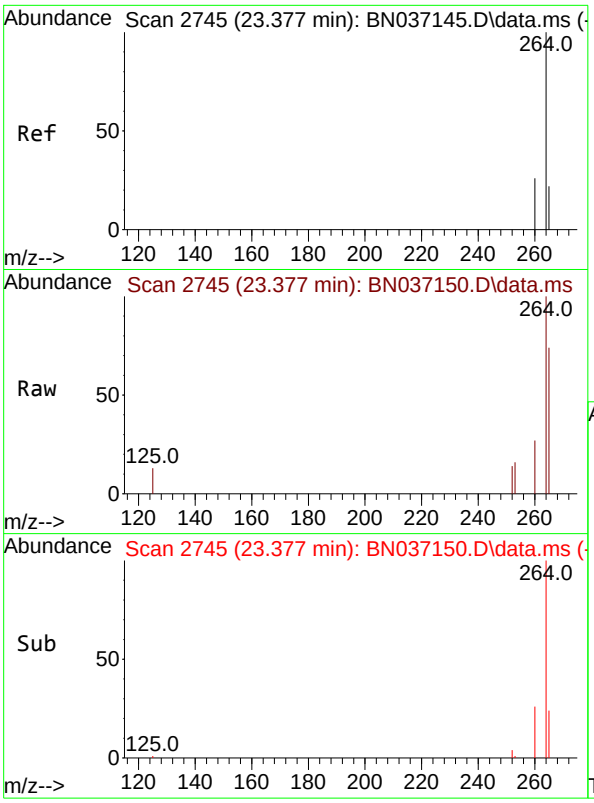


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.371 ng
RT: 21.117 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:149 Resp: 3635

Ion	Ratio	Lower	Upper
149	100		
167	25.6	21.0	31.4
279	3.4	2.9	4.3



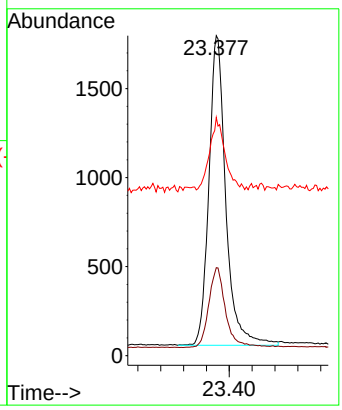


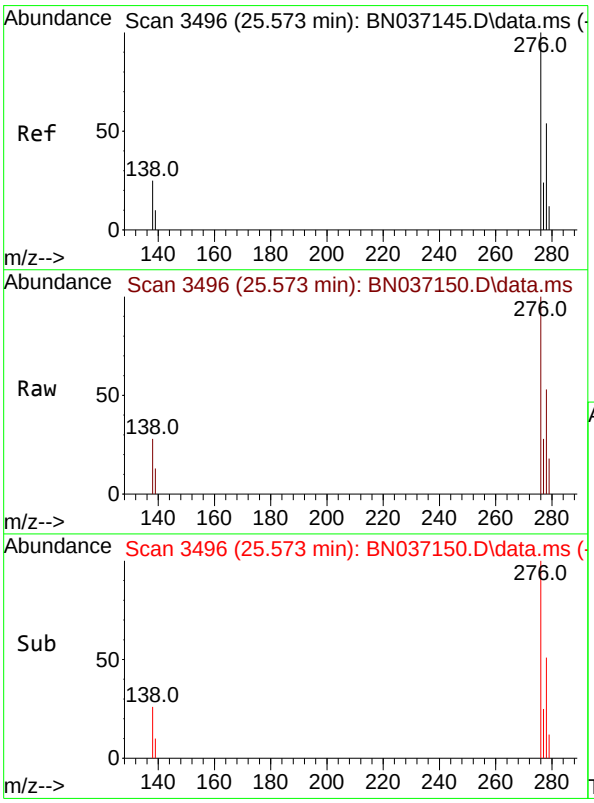
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.377 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:264 Resp: 3564

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.1	33.1
265	74.5	55.8	83.8

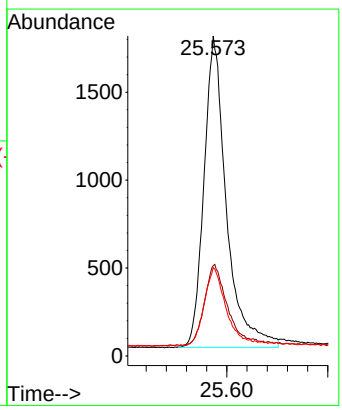


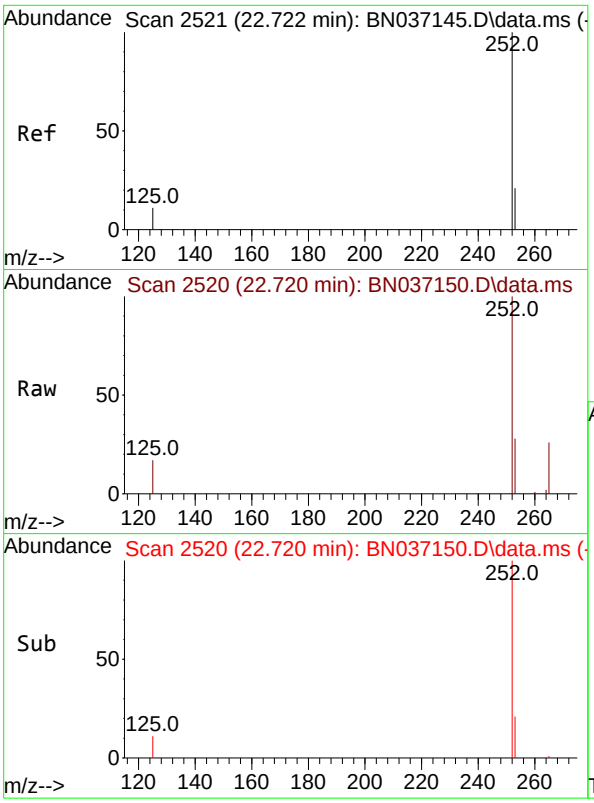


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.385 ng
RT: 25.573 min Scan# 3496
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:276 Resp: 5461

Ion	Ratio	Lower	Upper
276	100		
138	26.2	21.0	31.6
277	24.3	19.4	29.2



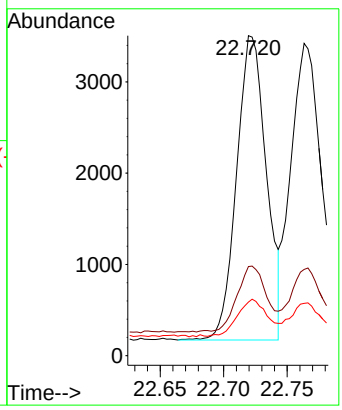


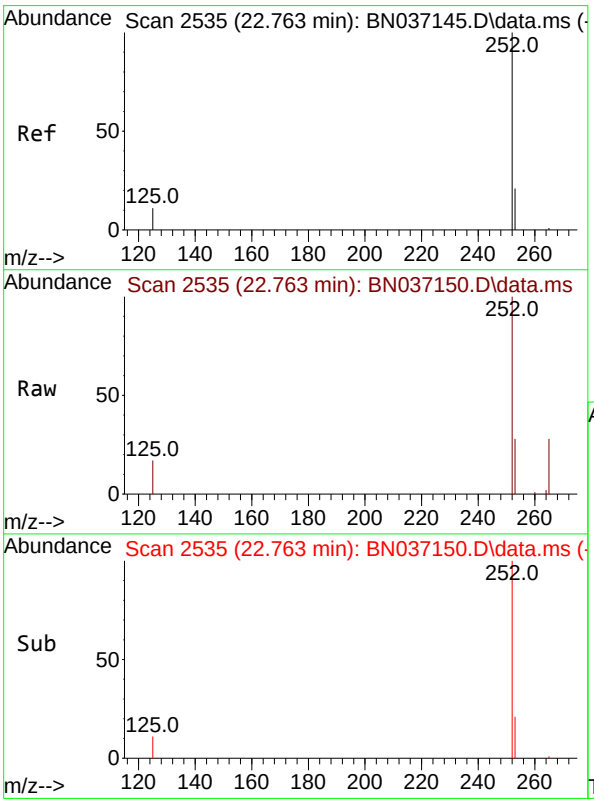
#37
Benzo(b)fluoranthene
Concen: 0.378 ng
RT: 22.720 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:252 Resp: 5432

Ion	Ratio	Lower	Upper
252	100		
253	27.8	22.3	33.5
125	16.7	13.2	19.8

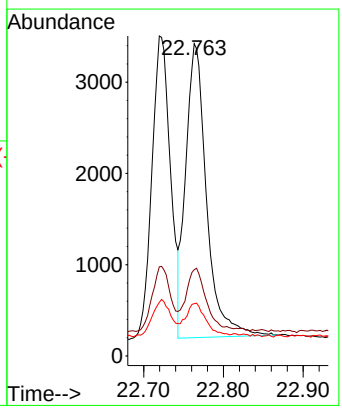


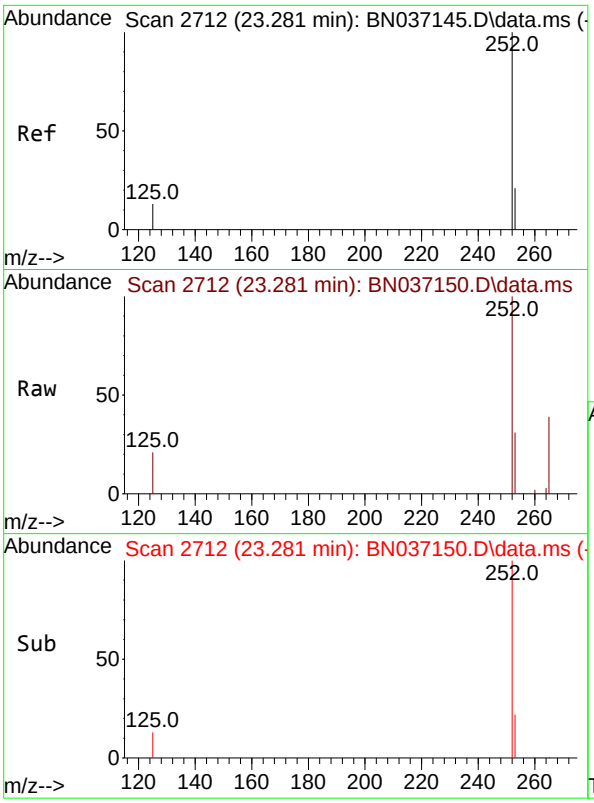


#38
Benzo(k)fluoranthene
Concen: 0.399 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:252 Resp: 5859

Ion	Ratio	Lower	Upper
252	100		
253	27.6	22.2	33.4
125	16.7	13.2	19.8



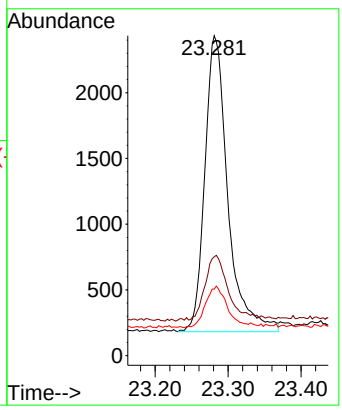


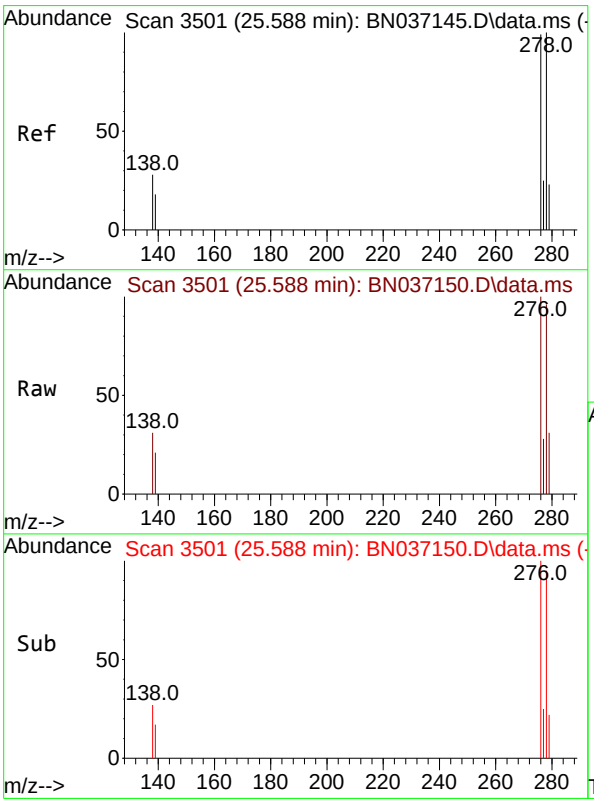
#39
Benzo(a)pyrene
Concen: 0.409 ng
RT: 23.281 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:252 Resp: 4925

Ion	Ratio	Lower	Upper
252	100		
253	30.9	25.0	37.4
125	20.8	17.0	25.6

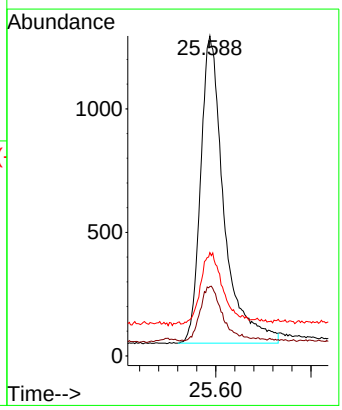


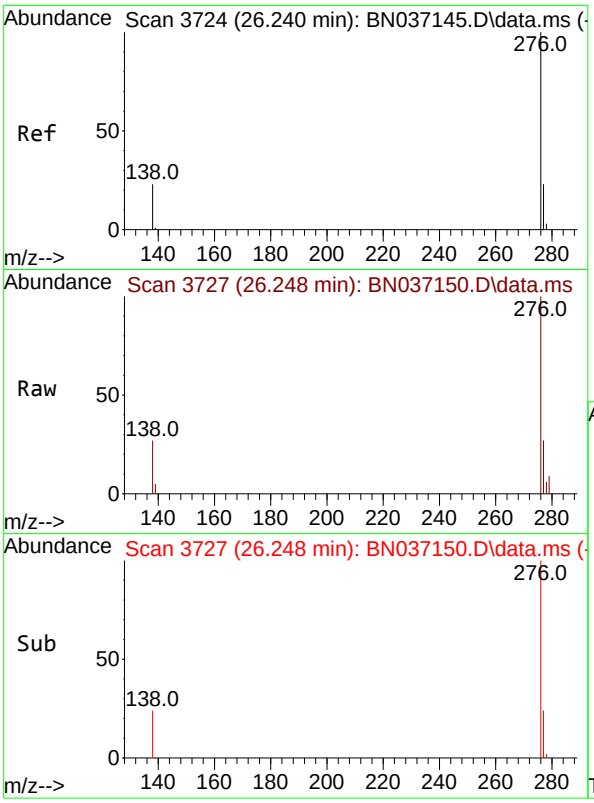


#40
Dibenzo(a,h)anthracene
Concen: 0.387 ng
RT: 25.588 min Scan# 3501
Delta R.T. -0.000 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Tgt Ion:278 Resp: 4227

Ion	Ratio	Lower	Upper
278	100		
139	21.7	17.6	26.4
279	32.3	26.0	39.0



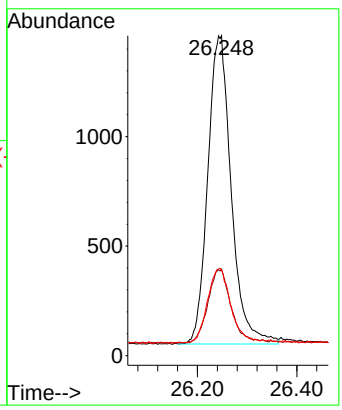


#41
Benzo(g,h,i)perylene
Concen: 0.368 ng
RT: 26.248 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN037150.D
Acq: 03 Jun 2025 15:53

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Tgt Ion:276 Resp: 4620

Ion	Ratio	Lower	Upper
276	100		
277	27.0	20.9	31.3
138	26.8	20.8	31.2



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037150.D
Acq On : 03 Jun 2025 15:53
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Quant Time: Jun 04 01:54:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2		1,4-Dioxane	0.533	0.551	-3.4	116	0.00
3		n-Nitrosodimethylamine	1.071	1.045	2.4	106	0.00
4	S	2-Fluorophenol	0.989	0.894	9.6	102	0.00
5	S	Phenol-d6	1.199	1.073	10.5	102	0.00
6		bis(2-Chloroethyl)ether	1.144	1.205	-5.3	115	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00
8	S	Nitrobenzene-d5	0.422	0.420	0.5	113	0.00
9		Naphthalene	1.154	1.137	1.5	115	0.01
10		Hexachlorobutadiene	0.251	0.253	-0.8	109	0.00
11	SURR	2-Methylnaphthalene-d10	0.557	0.554	0.5	111	0.00
12		2-Methylnaphthalene	0.740	0.652	11.9	106	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.01
14	S	2,4,6-Tribromophenol	0.161	0.133	17.4	105	0.00
15	S	2-Fluorobiphenyl	1.705	1.716	-0.6	121	0.00
16		Acenaphthylene	1.961	1.980	-1.0	129	0.00
17		Acenaphthene	1.273	1.187	6.8	118	0.00
18		Fluorene	1.674	1.561	6.8	118	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	116	0.00
20		4,6-Dinitro-2-methylphenol	0.077	0.055	28.6#	128	0.00
21		4-Bromophenyl-phenylether	0.262	0.244	6.9	116	0.00
22		Hexachlorobenzene	0.283	0.275	2.8	119	0.00
23		Atrazine	0.216	0.202	6.5	126	0.00
24		Pentachlorophenol	0.124	0.093	25.0	118	0.00
25		Phenanthrene	1.296	1.243	4.1	121	0.00
26		Anthracene	1.183	1.122	5.2	126	0.00
27	SURR	Fluoranthene-d10	1.016	0.953	6.2	114	0.00
28		Fluoranthene	1.432	1.293	9.7	118	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	114	0.00
30		Pyrene	1.953	1.898	2.8	118	0.00
31	S	Terphenyl-d14	0.942	0.978	-3.8	124	0.00
32		Benzo(a)anthracene	1.448	1.386	4.3	122	0.00
33		Chrysene	1.612	1.552	3.7	120	0.00
34		Bis(2-ethylhexyl)phthalate	0.914	0.847	7.3	125	0.00
35	I	Perylene-d12	1.000	1.000	0.0	105	0.00
36		Indeno(1,2,3-cd)pyrene	1.591	1.532	3.7	107	0.00
37		Benzo(b)fluoranthene	1.615	1.524	5.6	113	0.00
38		Benzo(k)fluoranthene	1.648	1.644	0.2	118	0.00
39	C	Benzo(a)pyrene	1.352	1.382	-2.2	119	0.00
40		Dibenzo(a,h)anthracene	1.227	1.186	3.3	108	0.00
41		Benzo(g,h,i)perylene	1.410	1.296	8.1	101	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\BN060325\
Data File : BN037150.D
Acq On : 03 Jun 2025 15:53
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN060325

Quant Time: Jun 04 01:54:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	107	0.00
2		1,4-Dioxane	0.400	0.413	-3.2	116	0.00
3		n-Nitrosodimethylamine	0.400	0.390	2.5	106	0.00
4	S	2-Fluorophenol	0.400	0.361	9.8	102	0.00
5	S	Phenol-d6	0.400	0.358	10.5	102	0.00
6		bis(2-Chloroethyl)ether	0.400	0.421	-5.2	115	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	113	0.00
8	S	Nitrobenzene-d5	0.400	0.398	0.5	113	0.00
9		Naphthalene	0.400	0.394	1.5	115	0.01
10		Hexachlorobutadiene	0.400	0.402	-0.5	109	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.398	0.5	111	0.00
12		2-Methylnaphthalene	0.400	0.352	12.0	106	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	115	0.01
14	S	2,4,6-Tribromophenol	0.400	0.329	17.8	105	0.00
15	S	2-Fluorobiphenyl	0.400	0.402	-0.5	121	0.00
16		Acenaphthylene	0.400	0.404	-1.0	129	0.00
17		Acenaphthene	0.400	0.373	6.8	118	0.00
18		Fluorene	0.400	0.373	6.8	118	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	116	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.462	-15.5	128	0.00
21		4-Bromophenyl-phenylether	0.400	0.372	7.0	116	0.00
22		Hexachlorobenzene	0.400	0.389	2.8	119	0.00
23		Atrazine	0.400	0.374	6.5	126	0.00
24		Pentachlorophenol	0.400	0.436	-9.0	118	0.00
25		Phenanthrene	0.400	0.384	4.0	121	0.00
26		Anthracene	0.400	0.380	5.0	126	0.00
27	SURR	Fluoranthene-d10	0.400	0.375	6.3	114	0.00
28		Fluoranthene	0.400	0.361	9.8	118	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	114	0.00
30		Pyrene	0.400	0.389	2.8	118	0.00
31	S	Terphenyl-d14	0.400	0.415	-3.7	124	0.00
32		Benzo(a)anthracene	0.400	0.383	4.3	122	0.00
33		Chrysene	0.400	0.385	3.8	120	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.371	7.3	125	0.00
35	I	Perylene-d12	0.400	0.400	0.0	105	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.385	3.8	107	0.00
37		Benzo(b)fluoranthene	0.400	0.378	5.5	113	0.00
38		Benzo(k)fluoranthene	0.400	0.399	0.3	118	0.00
39	C	Benzo(a)pyrene	0.400	0.409	-2.2	119	0.00
40		Dibenzo(a,h)anthracene	0.400	0.387	3.3	108	0.00
41		Benzo(g,h,i)perylene	0.400	0.368	8.0	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q2181 SAS No.: Q2181 SDG No.: Q2181

Instrument ID: BNA_N Calibration Date/Time: 06/04/2025 10:27

Lab File ID: BN037166.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.558		0.2	20.0
Fluoranthene-d10	1.016	0.928		-8.7	20.0
2-Fluorophenol	0.989	0.951		-3.8	20.0
Phenol-d6	1.199	1.170		-2.4	20.0
Nitrobenzene-d5	0.422	0.420		-0.5	20.0
2-Fluorobiphenyl	1.705	1.701		-0.2	20.0
Acenaphthylene	1.961	1.775		-9.5	20.0
2,4,6-Tribromophenol	0.161	0.138		-14.3	20.0
Terphenyl-d14	0.942	0.909		-3.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037166.D
Acq On : 04 Jun 2025 10:27
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 04 10:54:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

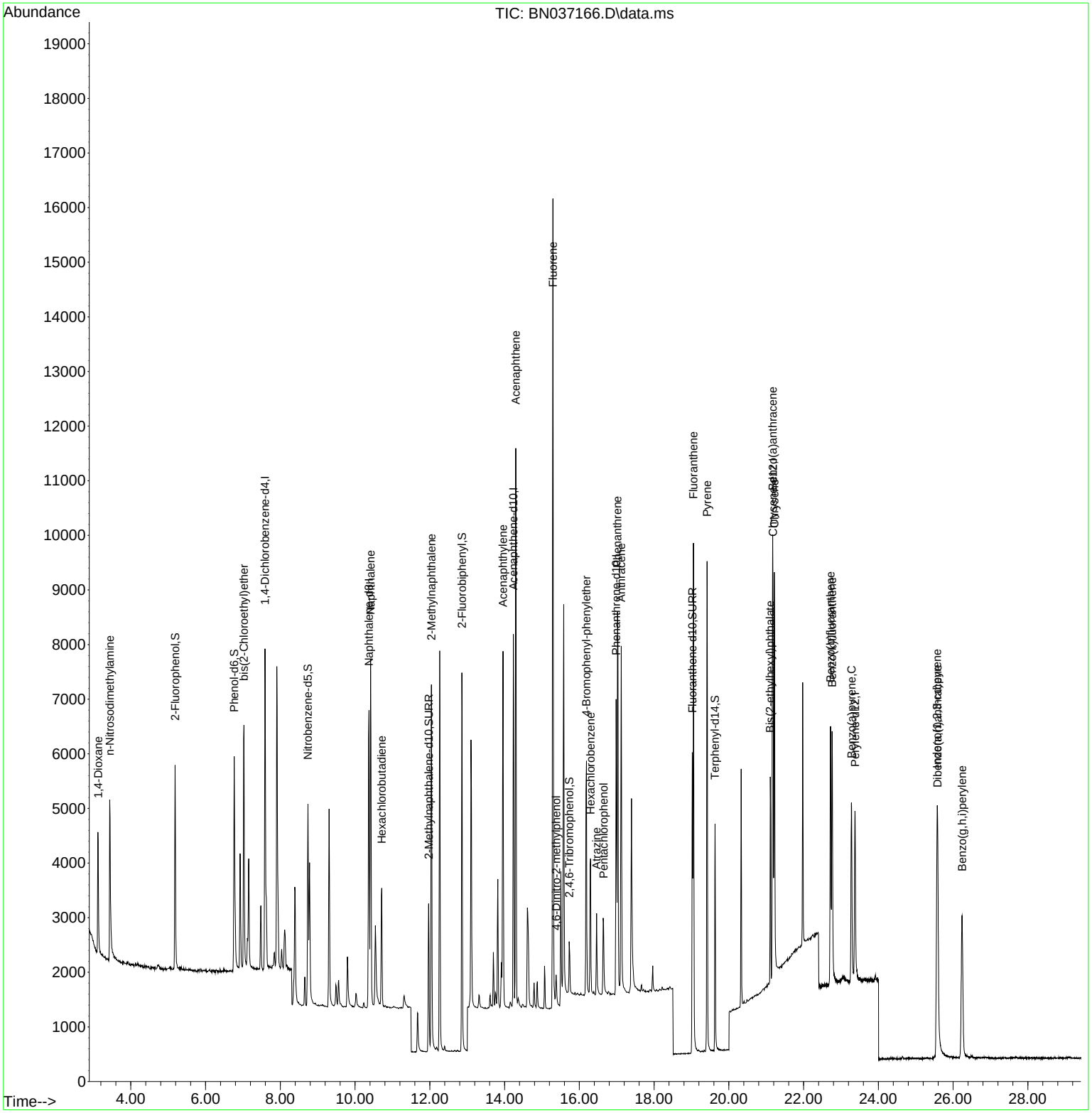
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.589	152	2757	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	7191	0.400	ng		0.00
13) Acenaphthene-d10	14.234	164	3834	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	6868	0.400	ng		0.00
29) Chrysene-d12	21.180	240	4452	0.400	ng	#	0.00
35) Perylene-d12	23.374	264	4092	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.184	112	2623	0.385	ng		0.00
5) Phenol-d6	6.766	99	3226	0.390	ng		0.00
8) Nitrobenzene-d5	8.739	82	3018	0.398	ng		0.00
11) 2-Methylnaphthalene-d10	11.970	152	4011	0.401	ng		0.00
14) 2,4,6-Tribromophenol	15.730	330	528	0.342	ng		-0.01
15) 2-Fluorobiphenyl	12.858	172	6521	0.399	ng		0.00
27) Fluoranthene-d10	19.026	212	6371	0.365	ng		0.00
31) Terphenyl-d14	19.630	244	4046	0.386	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.126	88	1399	0.381	ng		97
3) n-Nitrosodimethylamine	3.437	42	2765	0.375	ng		95
6) bis(2-Chloroethyl)ether	7.026	93	3223	0.409	ng		97
9) Naphthalene	10.415	128	8076	0.389	ng		98
10) Hexachlorobutadiene	10.714	225	1769	0.391	ng	#	100
12) 2-Methylnaphthalene	12.041	142	4961	0.373	ng		96
16) Acenaphthylene	13.956	152	6807	0.362	ng		99
17) Acenaphthene	14.299	154	4451	0.365	ng		98
18) Fluorene	15.293	166	5636	0.351	ng		99
20) 4,6-Dinitro-2-methylph...	15.378	198	485	0.515	ng	#	80
21) 4-Bromophenyl-phenylether	16.189	248	1611	0.358	ng		93
22) Hexachlorobenzene	16.301	284	1849	0.381	ng		99
23) Atrazine	16.462	200	1245	0.335	ng		95
24) Pentachlorophenol	16.649	266	823	0.498	ng		96
25) Phenanthrene	17.021	178	8135	0.366	ng		100
26) Anthracene	17.120	178	6966	0.343	ng		98
28) Fluoranthene	19.054	202	8355	0.340	ng		99
30) Pyrene	19.416	202	8281	0.381	ng		99
32) Benzo(a)anthracene	21.171	228	5983	0.371	ng		100
33) Chrysene	21.215	228	6546	0.365	ng		98
34) Bis(2-ethylhexyl)phtha...	21.108	149	3537	0.348	ng		99
36) Indeno(1,2,3-cd)pyrene	25.573	276	6087	0.374	ng		99
37) Benzo(b)fluoranthene	22.719	252	5916	0.358	ng		99
38) Benzo(k)fluoranthene	22.763	252	6048	0.359	ng		98
39) Benzo(a)pyrene	23.281	252	4995	0.361	ng		99
40) Dibenzo(a,h)anthracene	25.587	278	4662	0.371	ng		98
41) Benzo(g,h,i)perylene	26.239	276	5291	0.367	ng		99

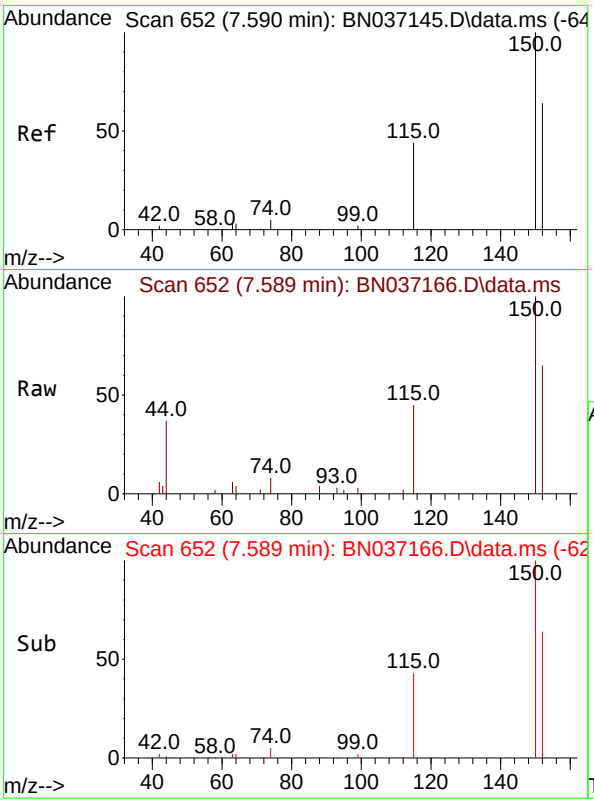
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037166.D
Acq On : 04 Jun 2025 10:27
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 04 10:54:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration



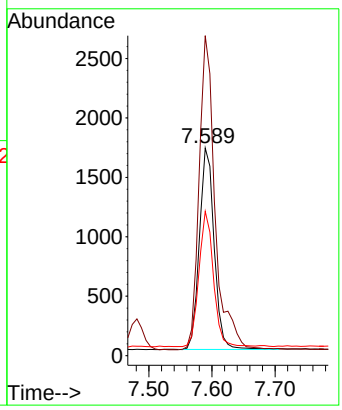


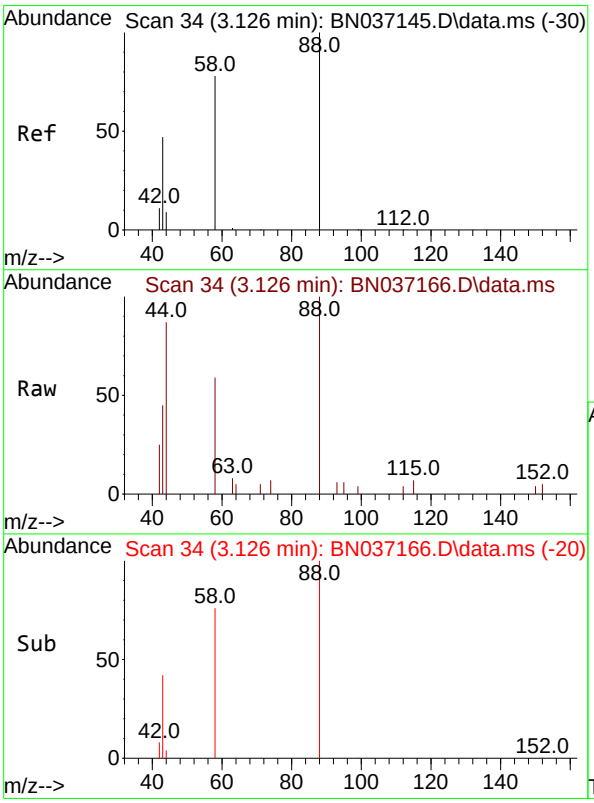
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2757

Ion	Ratio	Lower	Upper
152	100		
150	154.1	123.2	184.8
115	69.5	56.6	85.0

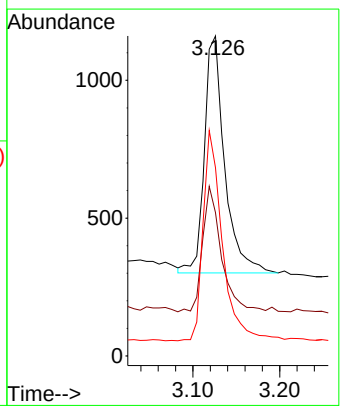


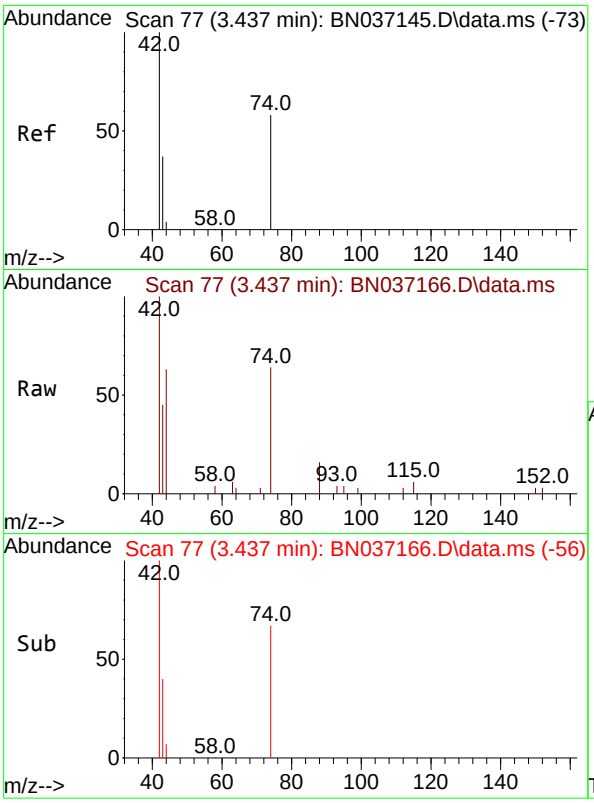


#2
1,4-Dioxane
Concen: 0.381 ng
RT: 3.126 min Scan# 34
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion: 88 Resp: 1399

Ion	Ratio	Lower	Upper
88	100		
43	49.5	43.5	65.3
58	84.6	67.7	101.5



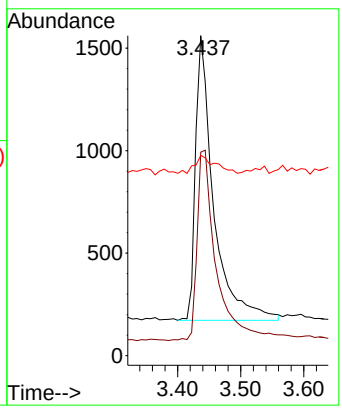


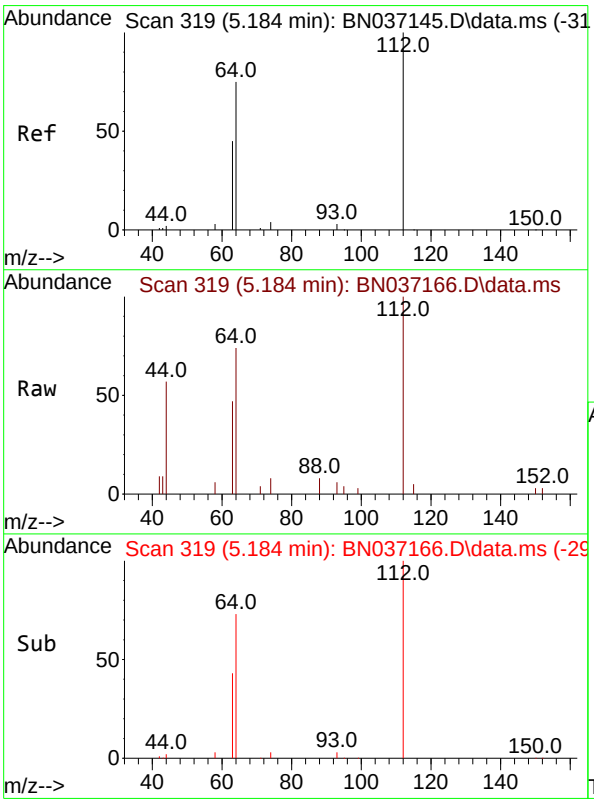
#3
n-Nitrosodimethylamine
Concen: 0.375 ng
RT: 3.437 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2765

Ion	Ratio	Lower	Upper
42	100		
74	70.6	53.0	79.4
44	7.8	5.9	8.9

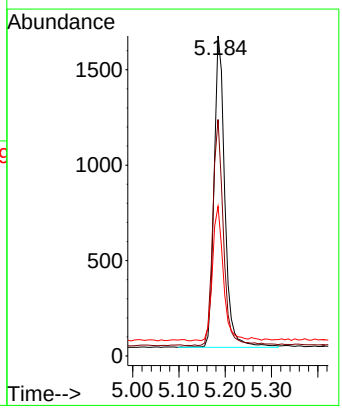


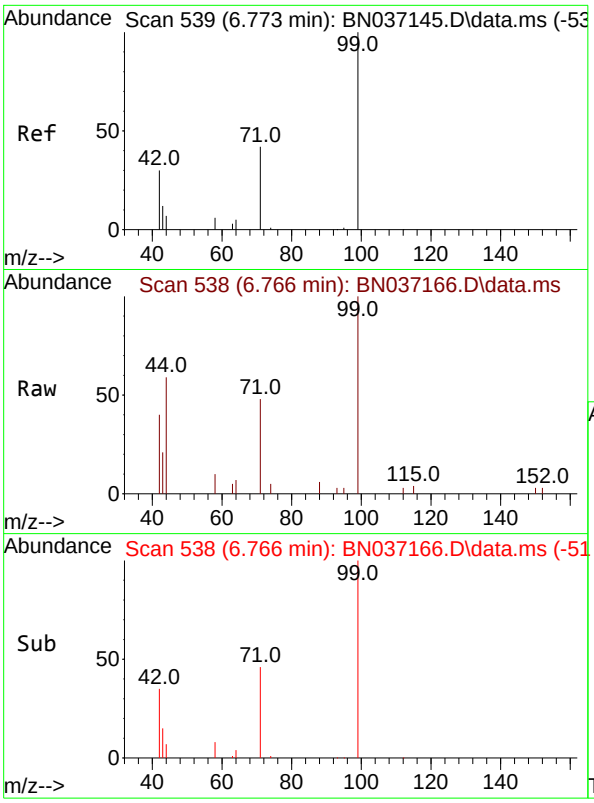


#4
2-Fluorophenol
Concen: 0.385 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:112 Resp: 2623

Ion	Ratio	Lower	Upper
112	100		
64	72.6	56.3	84.5
63	43.5	36.2	54.4



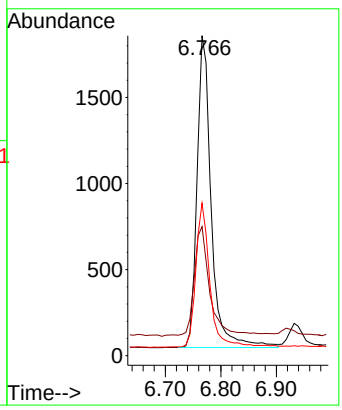


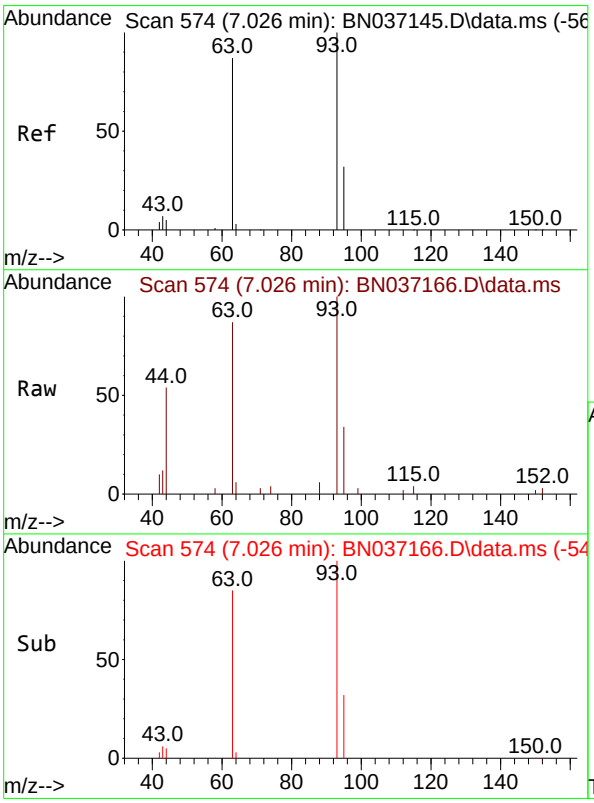
#5
Phenol-d6
Concen: 0.390 ng
RT: 6.766 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 3226

Ion	Ratio	Lower	Upper
99	100		
42	39.4	31.3	46.9
71	45.6	38.2	57.2

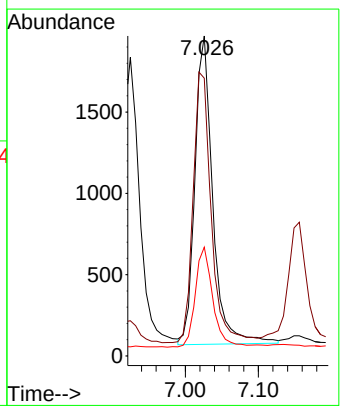


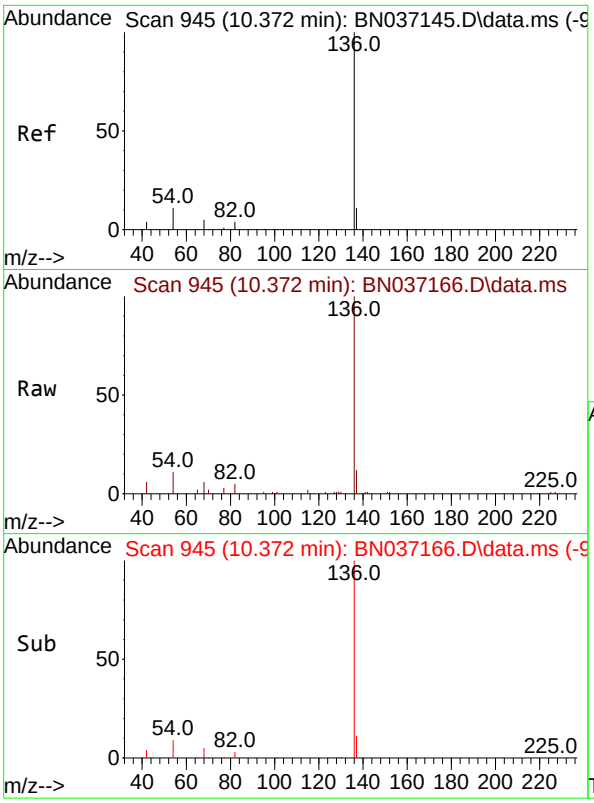


#6
bis(2-Chloroethyl)ether
Concen: 0.409 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion: 93 Resp: 3223

Ion	Ratio	Lower	Upper
93	100		
63	88.4	68.6	103.0
95	31.9	24.3	36.5



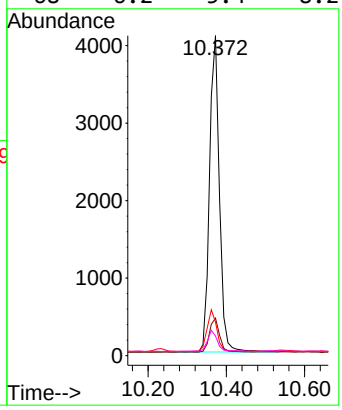


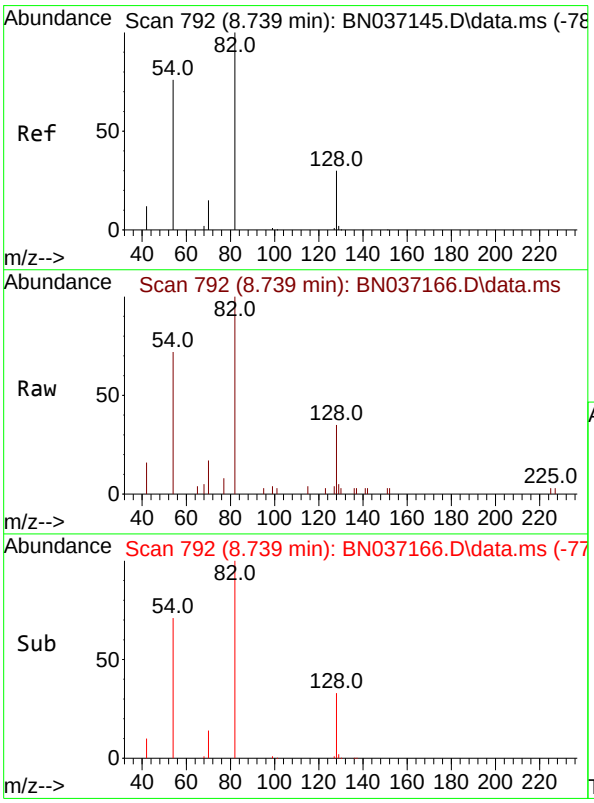
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 7191

Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.7	14.5
54	10.5	9.7	14.5
68	6.2	5.4	8.2

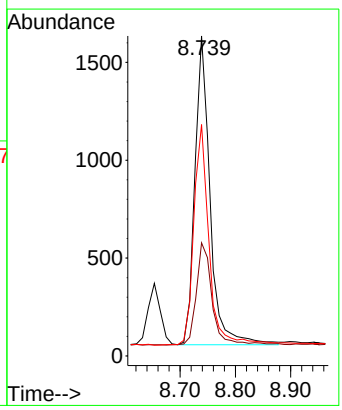


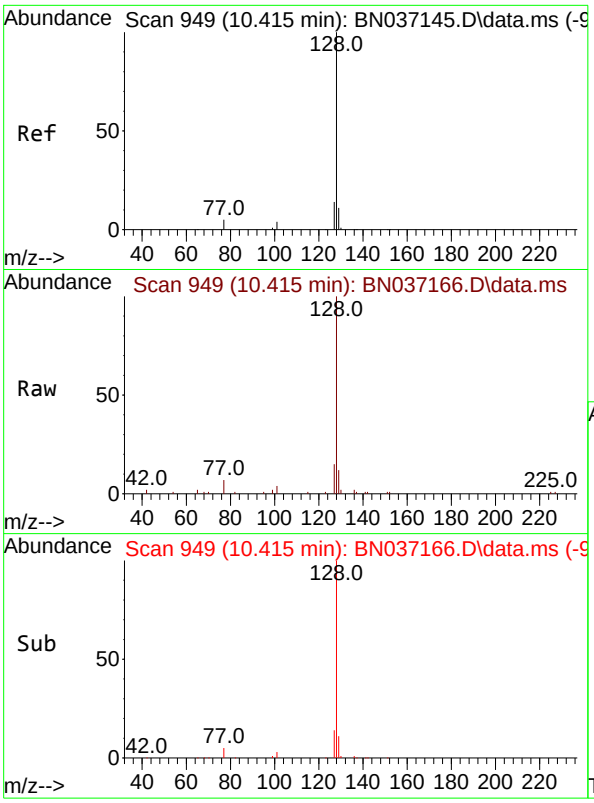


#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion: 82 Resp: 3018

Ion	Ratio	Lower	Upper
82	100		
128	35.4	26.9	40.3
54	72.3	61.4	92.2



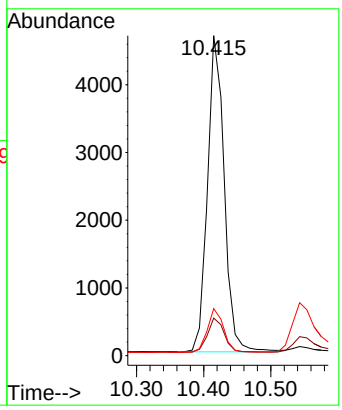


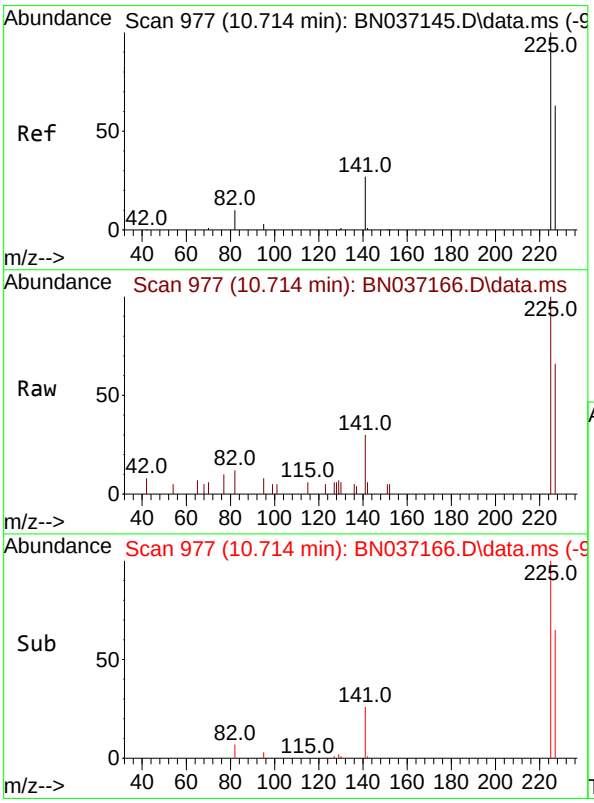
#9
Naphthalene
Concen: 0.389 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 8076

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.8
127	14.7	12.3	18.5

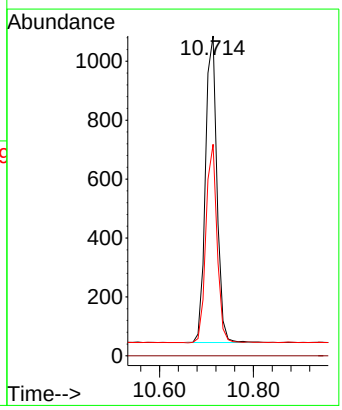


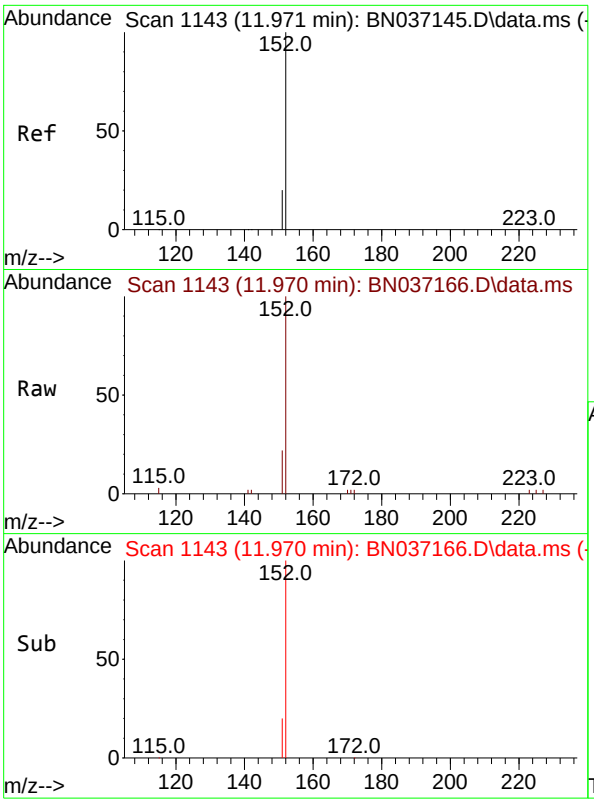


#10
Hexachlorobutadiene
Concen: 0.391 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:225 Resp: 1769

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	50.3	75.5



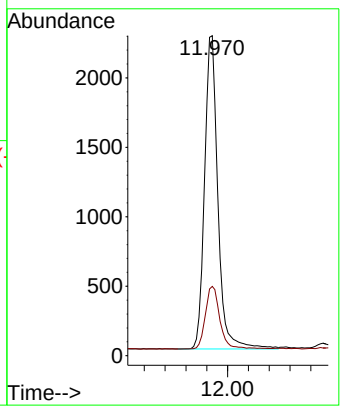


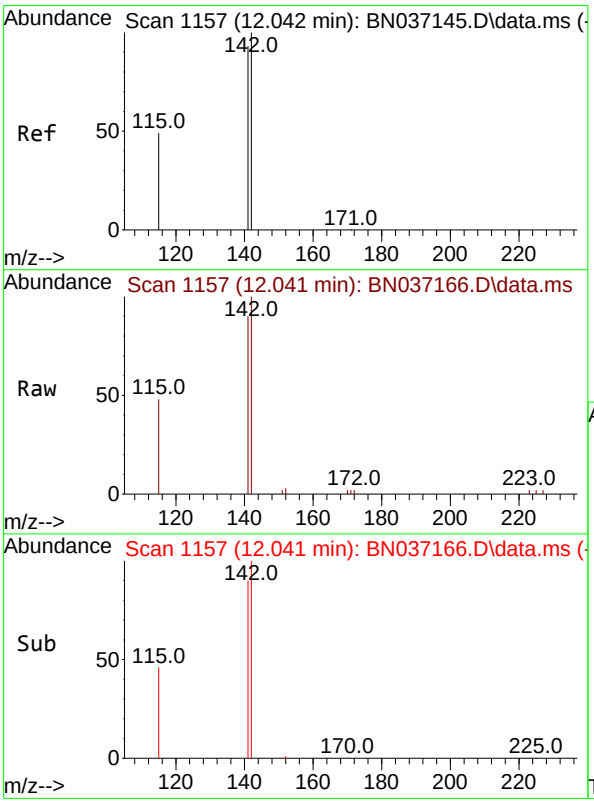
#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 11.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4011

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.1	25.7

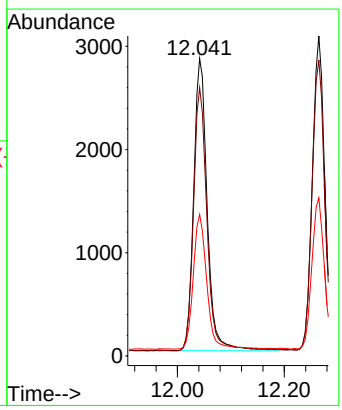


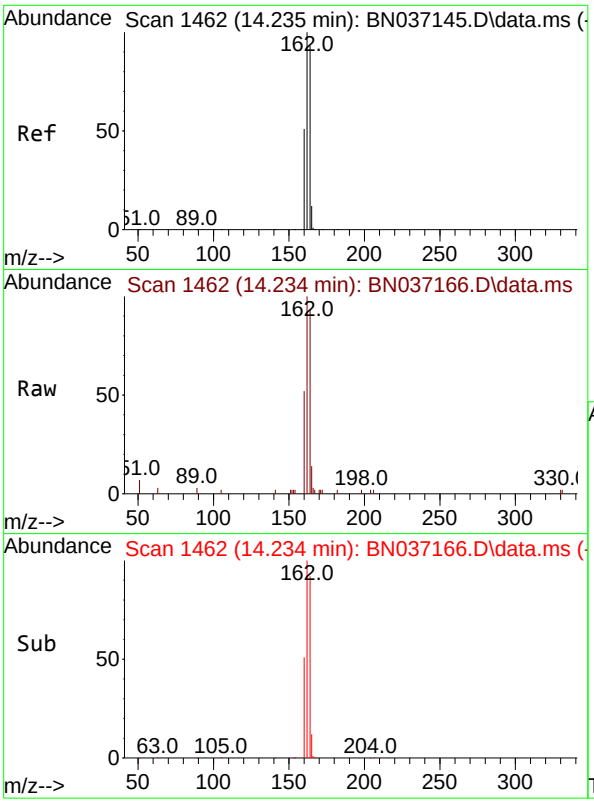


#12
2-Methylnaphthalene
Concen: 0.373 ng
RT: 12.041 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:142 Resp: 4961

Ion	Ratio	Lower	Upper
142	100		
141	90.2	74.6	111.8
115	47.6	41.0	61.4



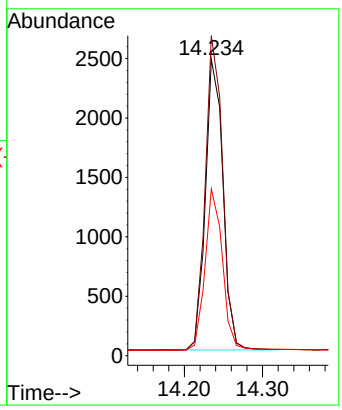


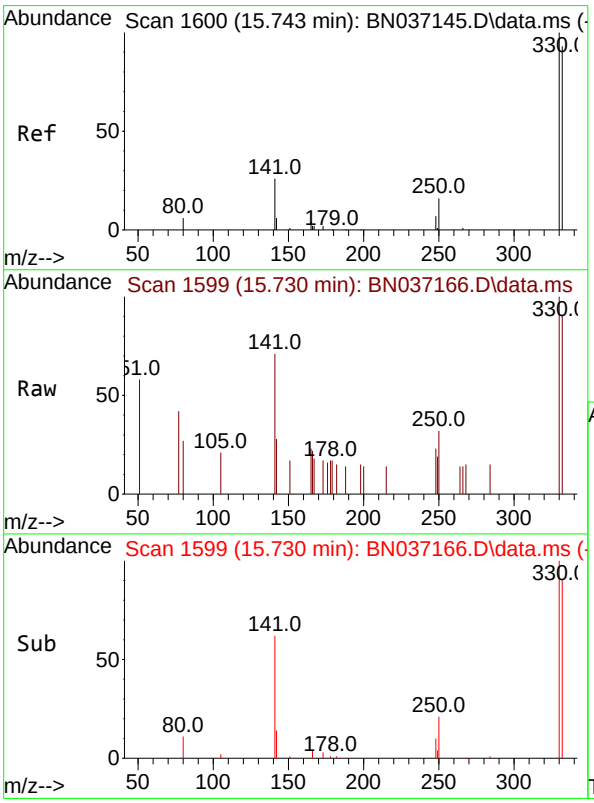
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 3834

Ion	Ratio	Lower	Upper
164	100		
162	108.1	85.5	128.3
160	56.3	44.6	67.0

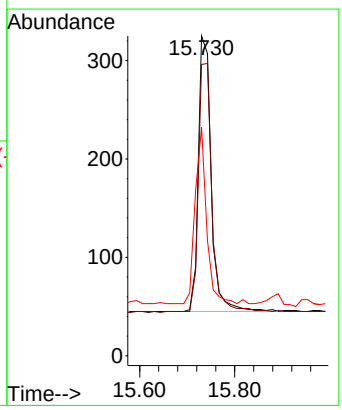


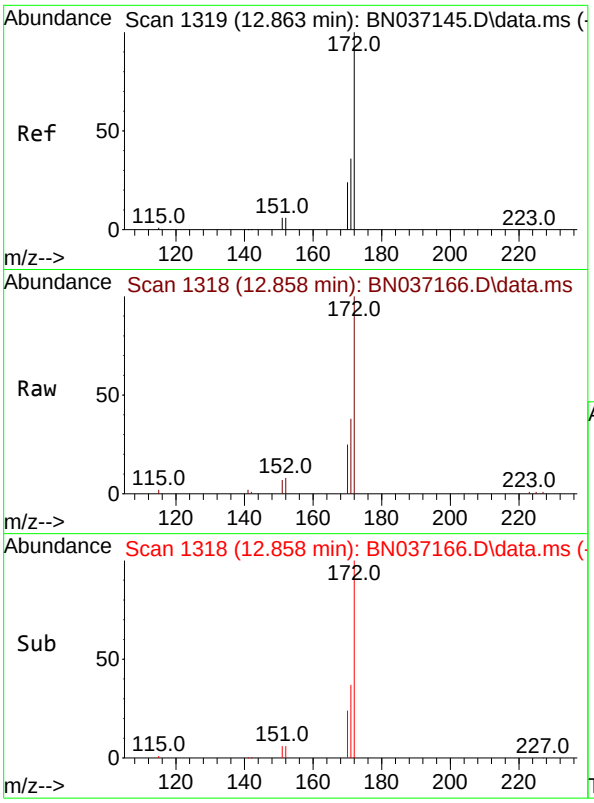


#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.730 min Scan# 1599
Delta R.T. -0.013 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:330 Resp: 528

Ion	Ratio	Lower	Upper
330	100		
332	93.2	77.1	115.7
141	56.1	46.4	69.6



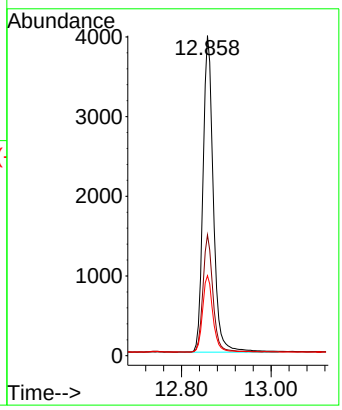


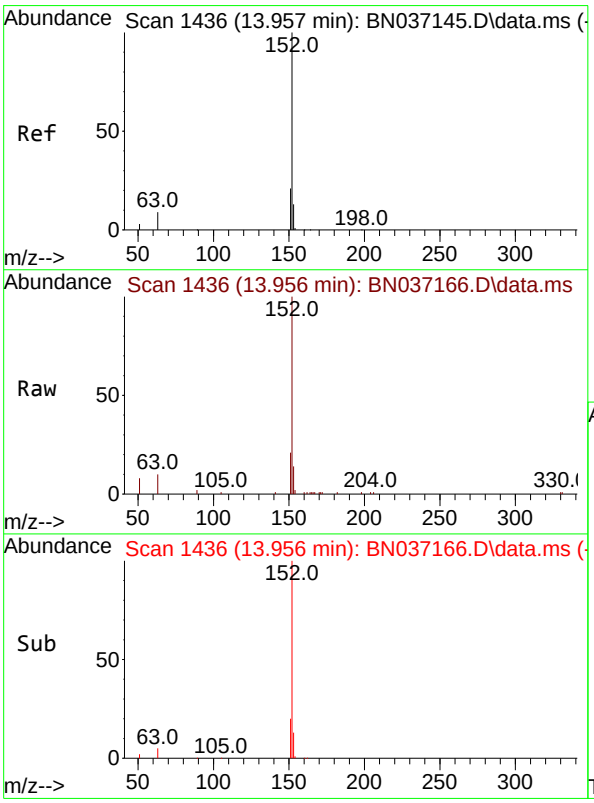
#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.858 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 6521

Ion	Ratio	Lower	Upper
172	100		
171	37.8	29.6	44.4
170	25.0	20.3	30.5

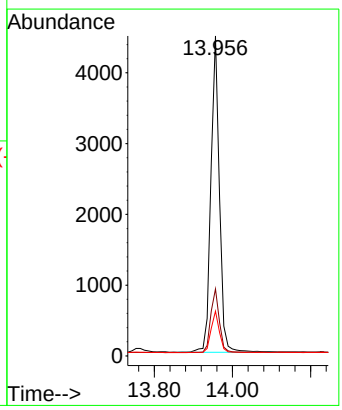


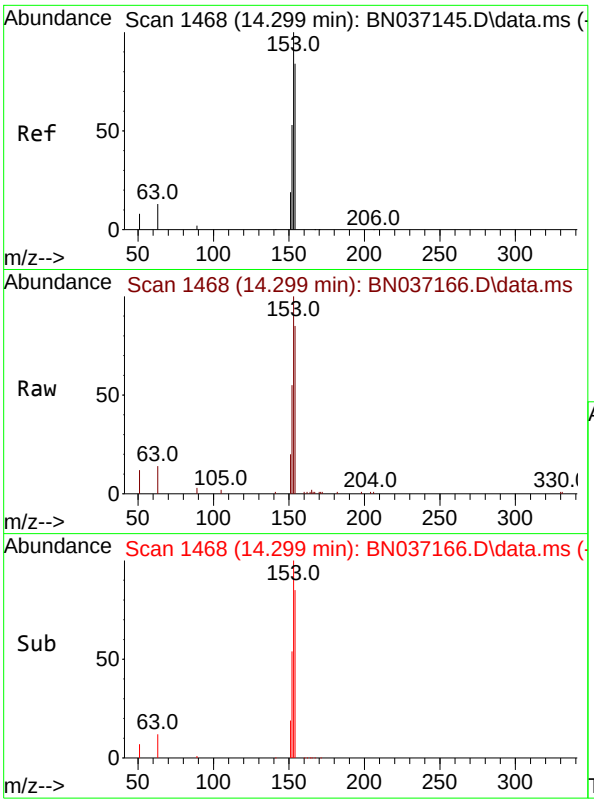


#16
Acenaphthylene
Concen: 0.362 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:152 Resp: 6807

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	12.9	10.6	15.8



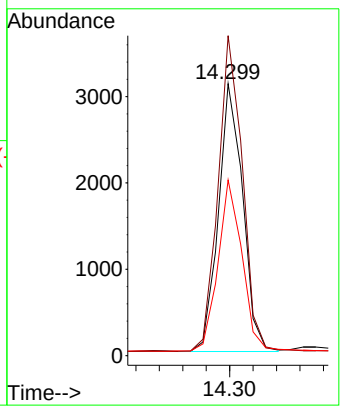


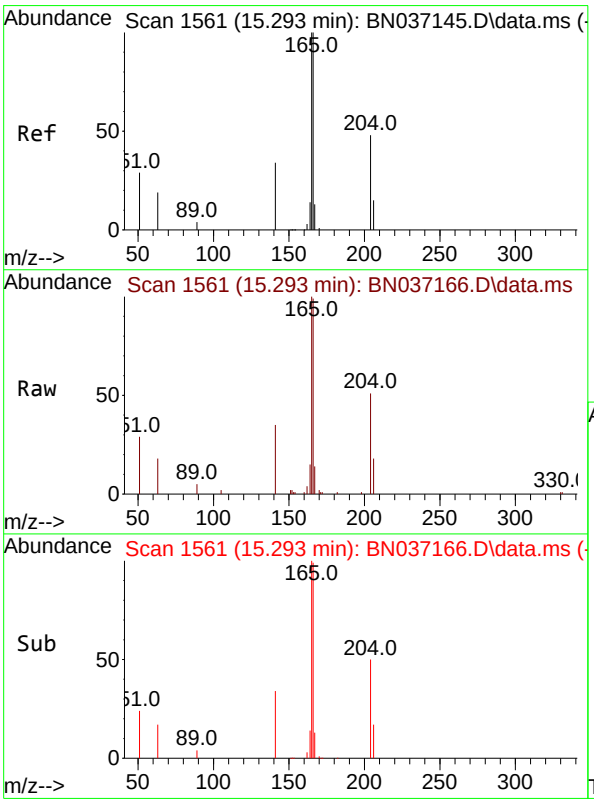
#17
Acenaphthene
Concen: 0.365 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4451

Ion	Ratio	Lower	Upper
154	100		
153	119.6	93.8	140.8
152	63.7	50.5	75.7

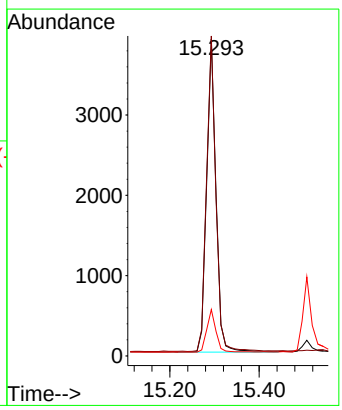


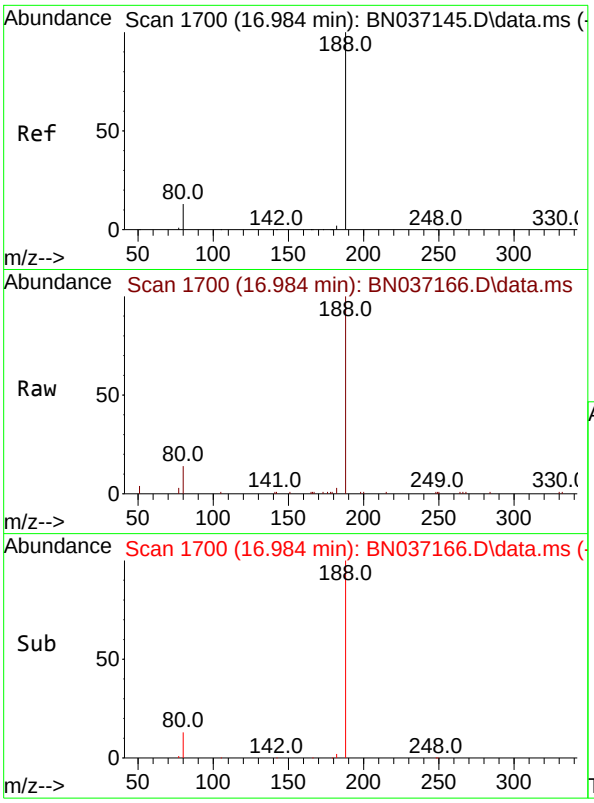


#18
Fluorene
Concen: 0.351 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:166 Resp: 5636

Ion	Ratio	Lower	Upper
166	100		
165	100.4	81.1	121.7
167	13.4	10.8	16.2



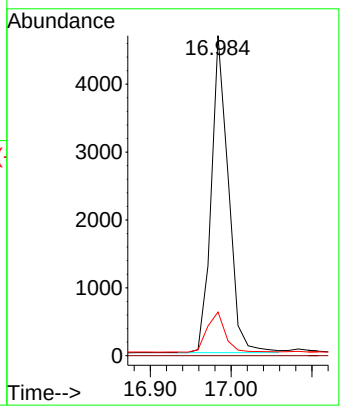


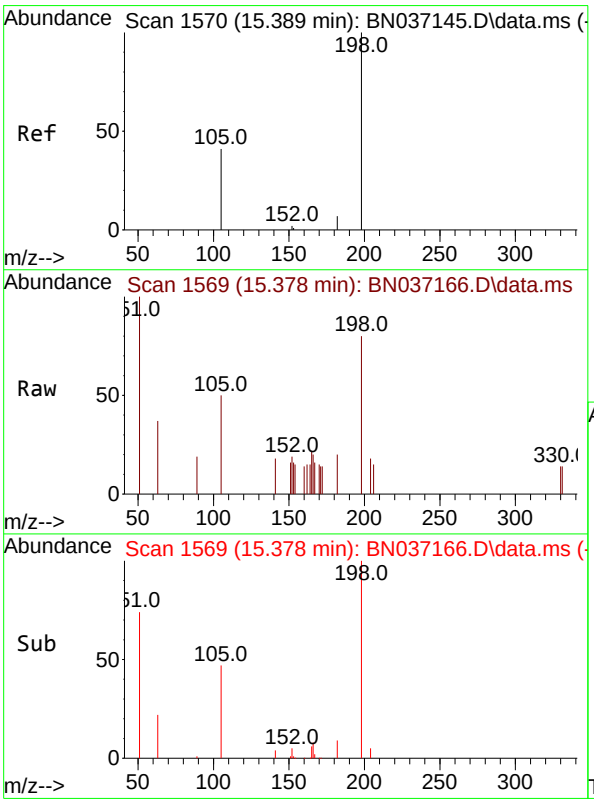
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 6868

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	11.3	16.9

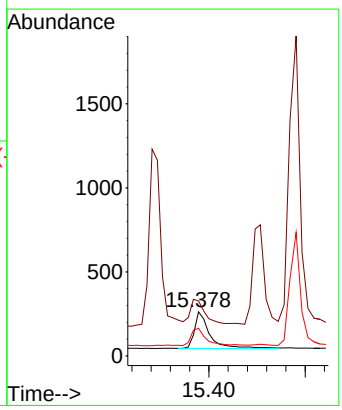


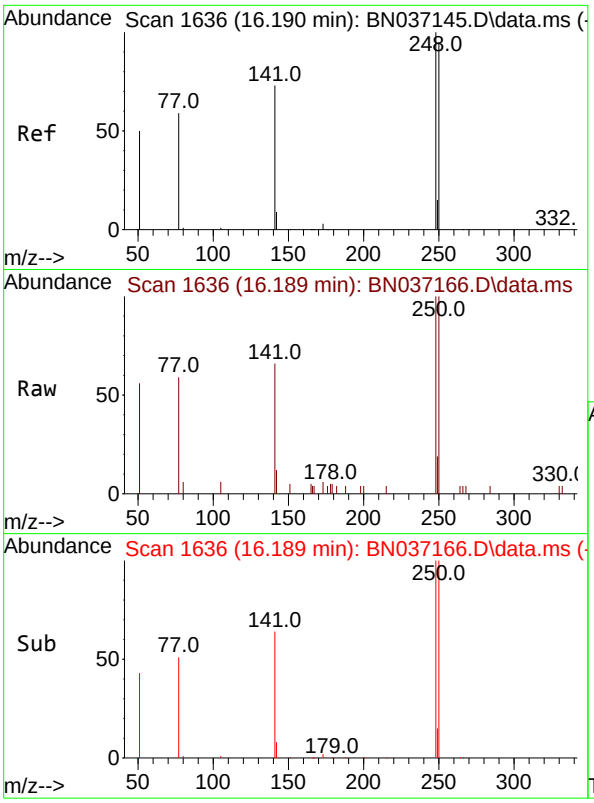


#20
4,6-Dinitro-2-methylphenol
Concen: 0.515 ng
RT: 15.378 min Scan# 1569
Delta R.T. -0.011 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:198 Resp: 485

Ion	Ratio	Lower	Upper
198	100		
51	124.7	125.2	187.8#
105	62.7	57.1	85.7



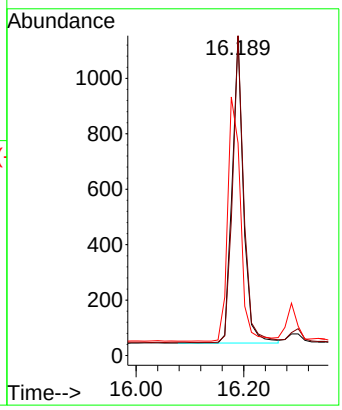


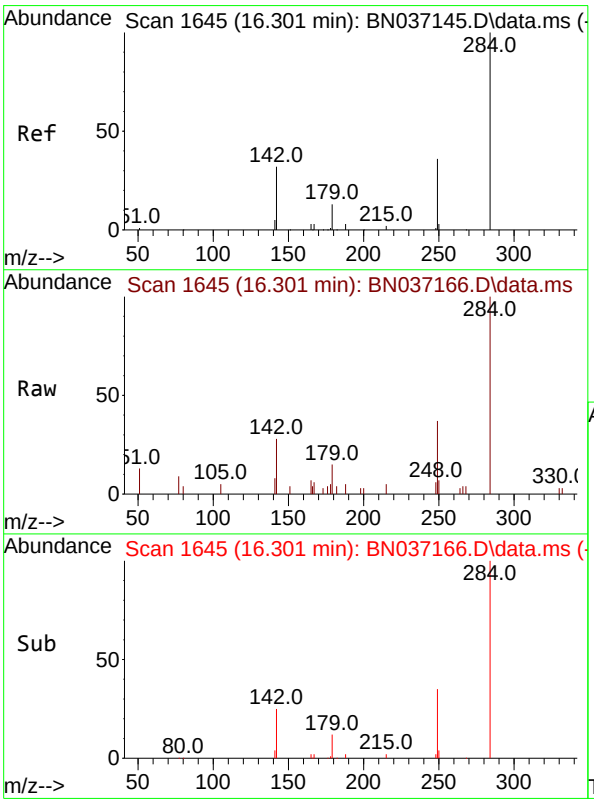
#21
4-Bromophenyl-phenylether
Concen: 0.358 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1611

Ion	Ratio	Lower	Upper
248	100		
250	100.1	76.1	114.1
141	66.5	60.1	90.1

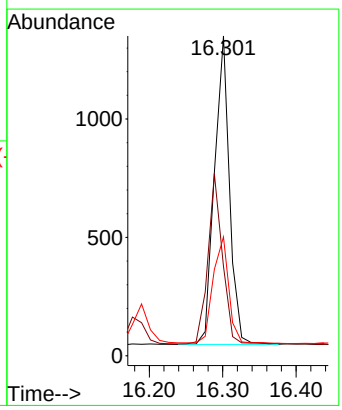


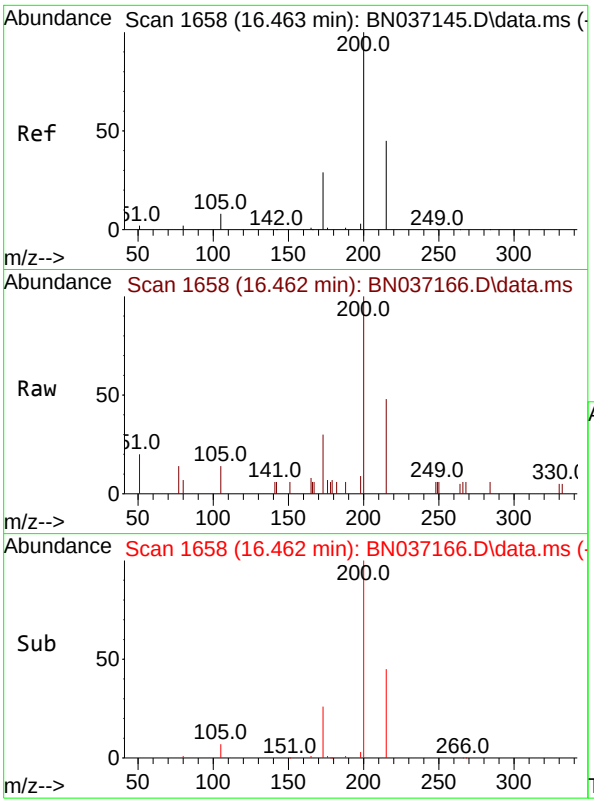


#22
Hexachlorobenzene
Concen: 0.381 ng
RT: 16.301 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:284 Resp: 1849

Ion	Ratio	Lower	Upper
284	100		
142	54.4	44.0	66.0
249	36.6	29.7	44.5



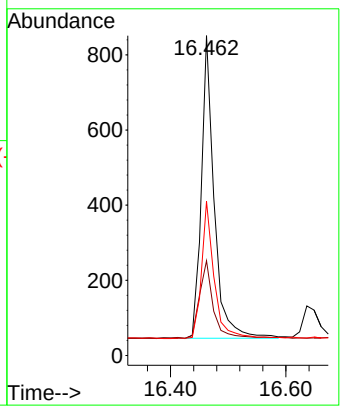


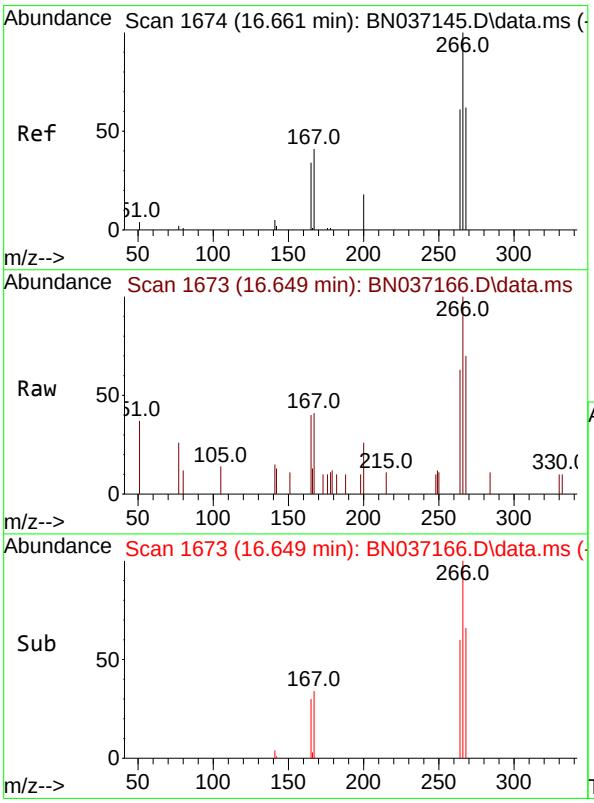
#23
Atrazine
Concen: 0.335 ng
RT: 16.462 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1245

Ion	Ratio	Lower	Upper
200	100		
173	29.6	28.1	42.1
215	48.2	39.3	58.9

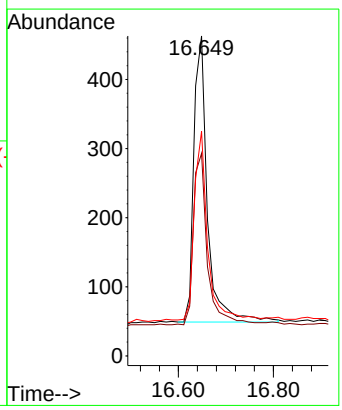


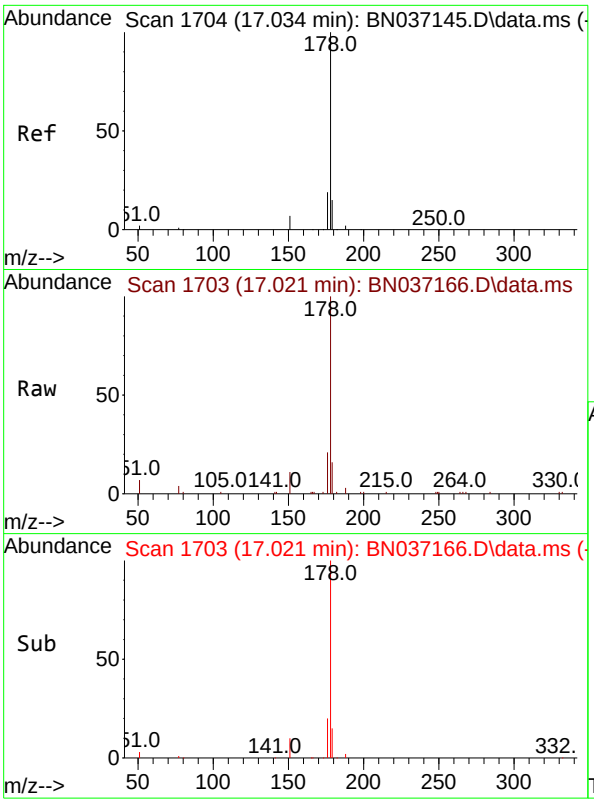


#24
Pentachlorophenol
Concen: 0.498 ng
RT: 16.649 min Scan# 1673
Delta R.T. -0.012 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:266 Resp: 823

Ion	Ratio	Lower	Upper
266	100		
264	61.4	49.3	73.9
268	67.4	49.0	73.4



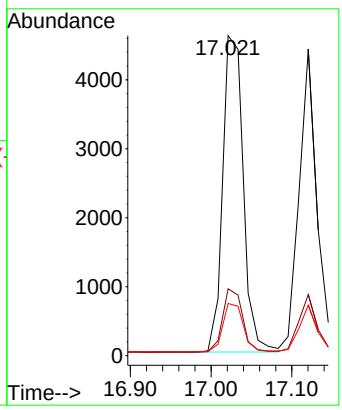


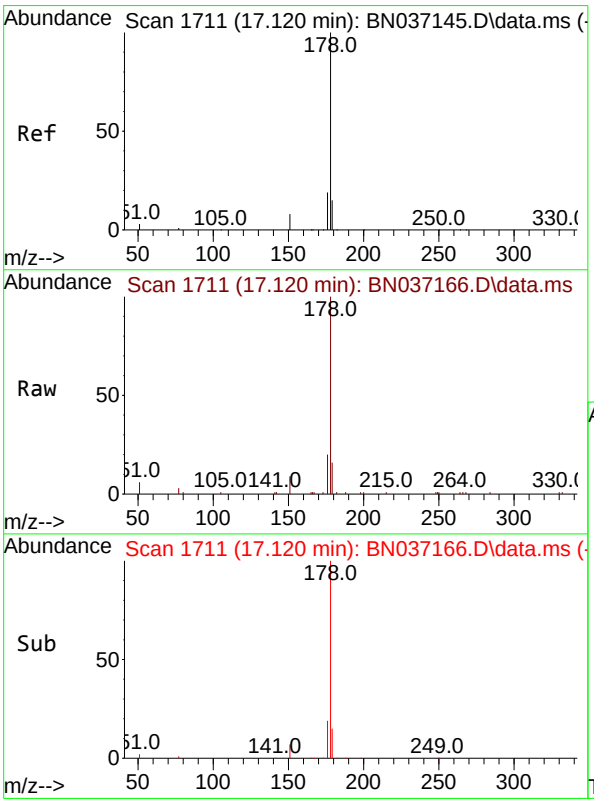
#25
Phenanthrene
Concen: 0.366 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 8135

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.6	12.3	18.5

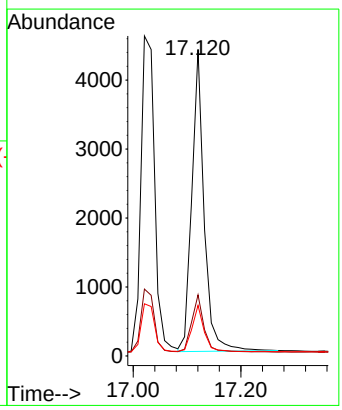


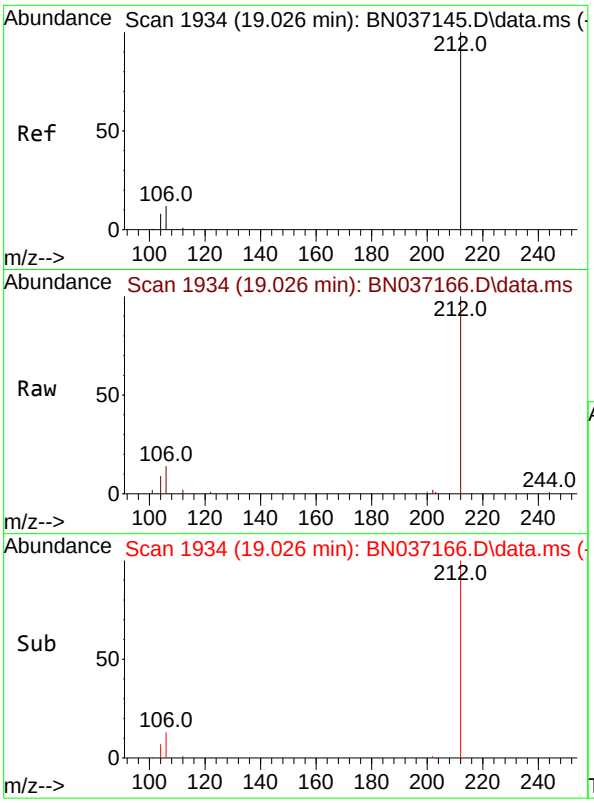


#26
Anthracene
Concen: 0.343 ng
RT: 17.120 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:178 Resp: 6966

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.0	12.9	19.3



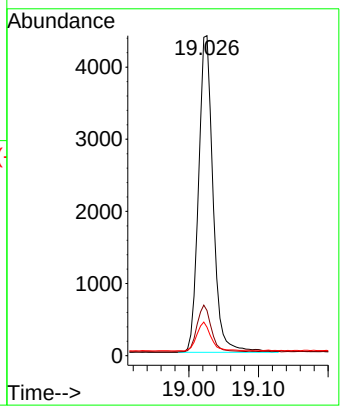


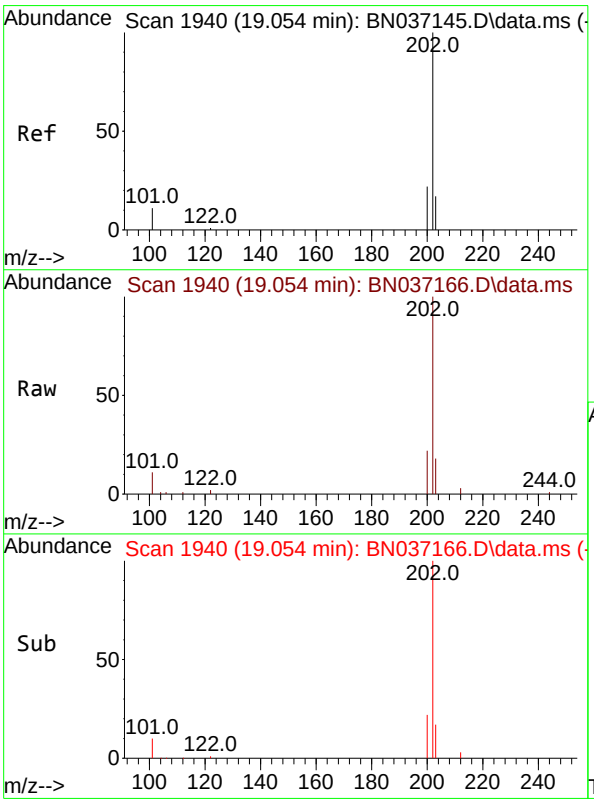
#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 6371

Ion	Ratio	Lower	Upper
212	100		
106	14.5	10.6	15.8
104	8.9	6.6	9.8

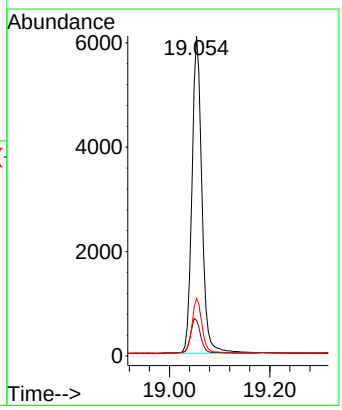


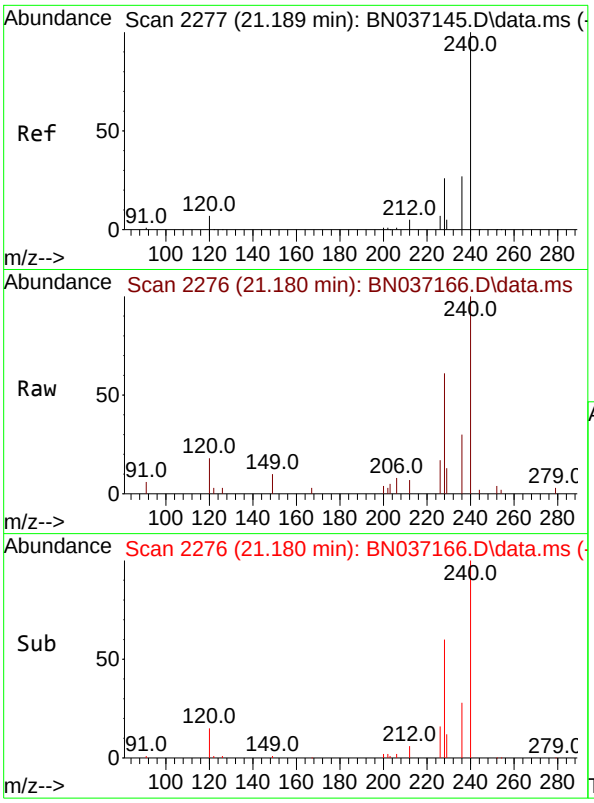


#28
Fluoranthene
Concen: 0.340 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:202 Resp: 8355

Ion	Ratio	Lower	Upper
202	100		
101	11.6	8.7	13.1
203	17.0	13.5	20.3



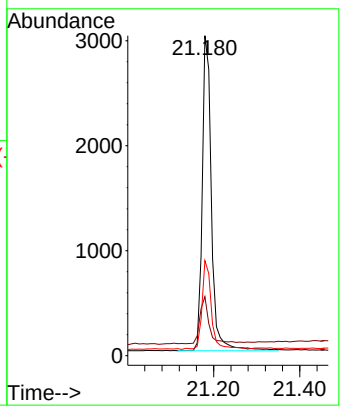


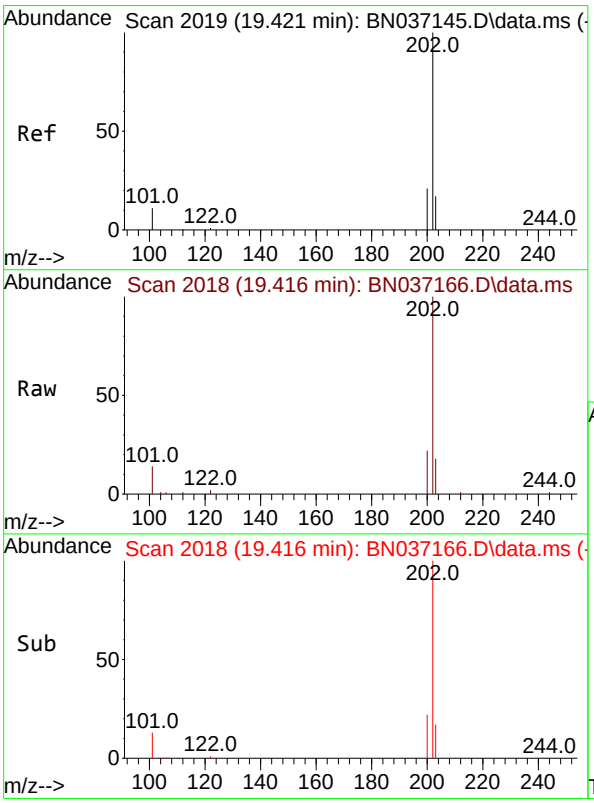
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 4452

Ion	Ratio	Lower	Upper
240	100		
120	18.5	9.0	13.4#
236	29.7	23.0	34.4

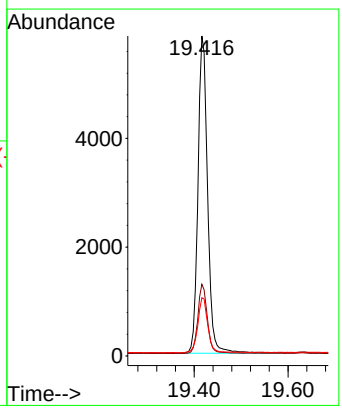


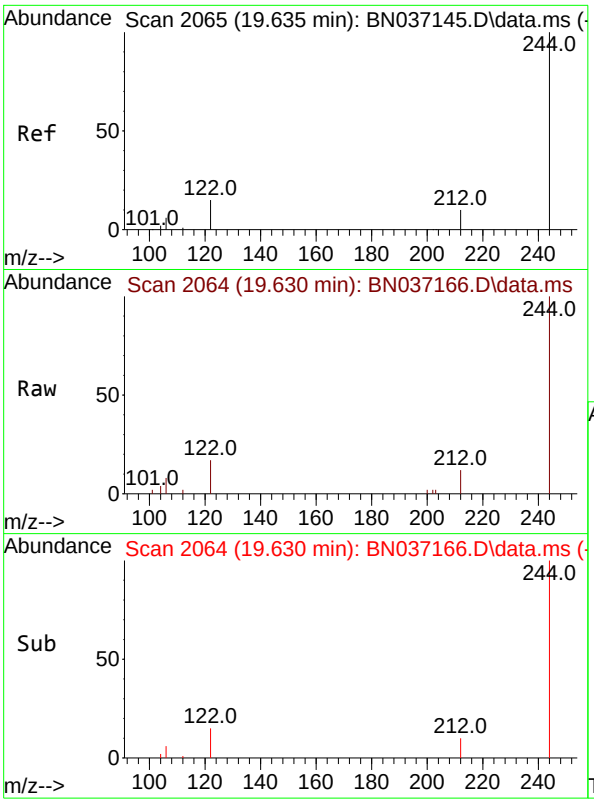


#30
Pyrene
Concen: 0.381 ng
RT: 19.416 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:202 Resp: 8281

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	18.2	14.2	21.4



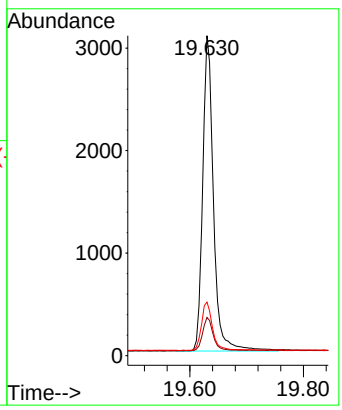


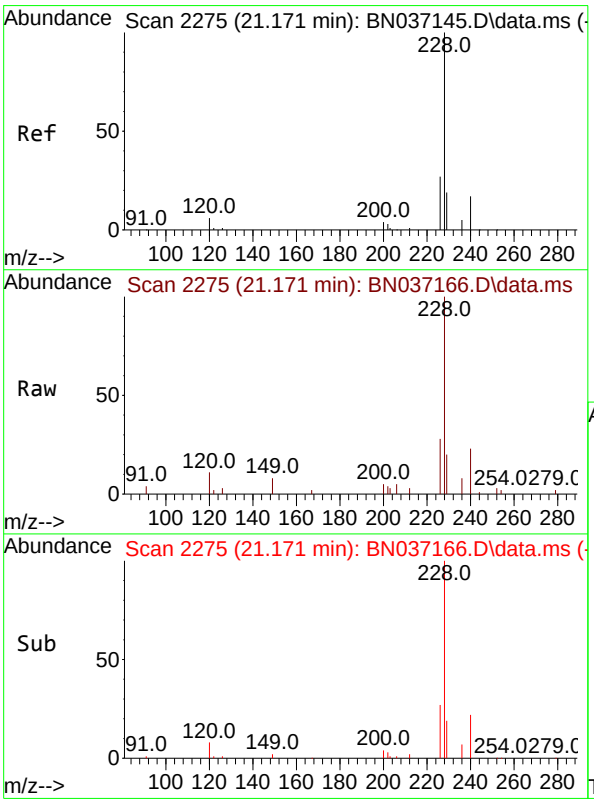
#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.630 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 4046

Ion	Ratio	Lower	Upper
244	100		
212	11.9	10.0	15.0
122	16.7	13.2	19.8

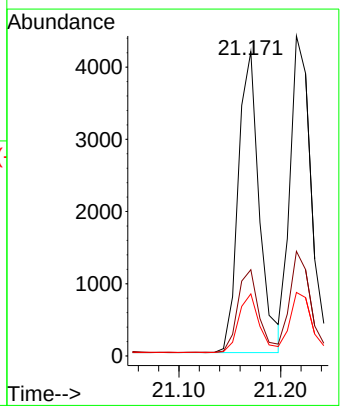


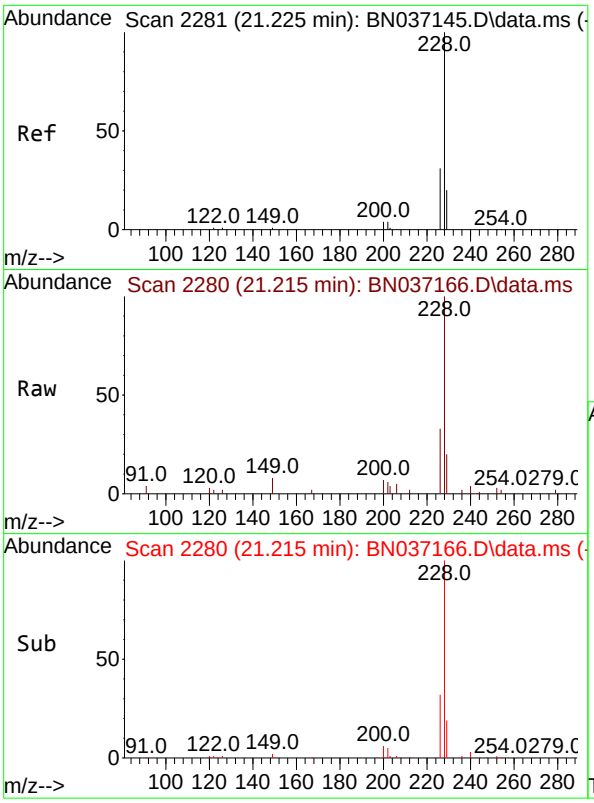


#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:228 Resp: 5983

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	20.4	16.2	24.2



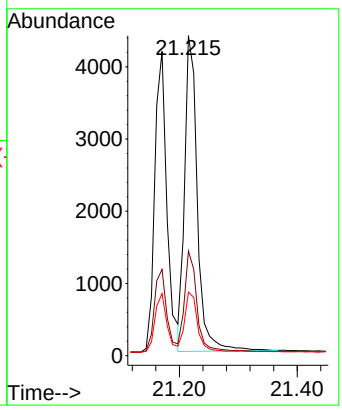


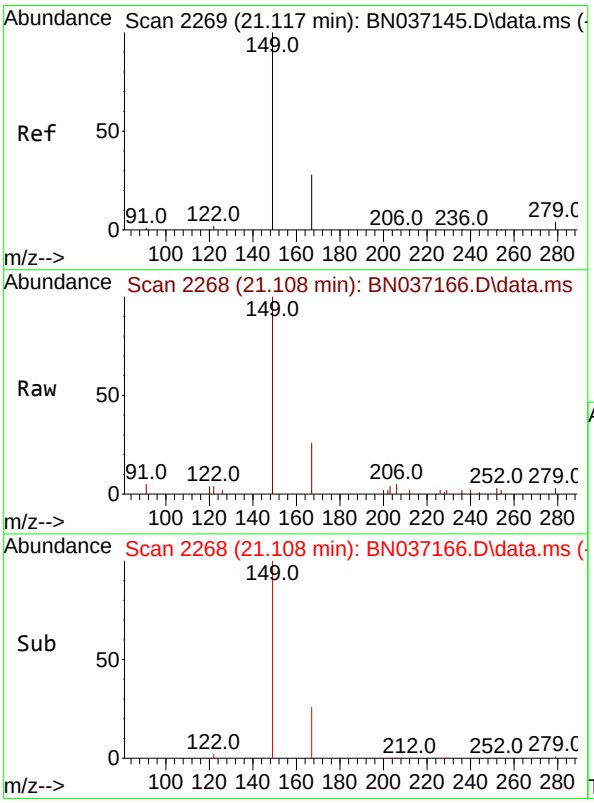
#33
Chrysene
Concen: 0.365 ng
RT: 21.215 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 6546

Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.2	37.8
229	19.9	16.8	25.2

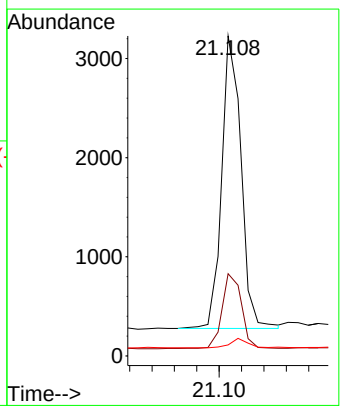


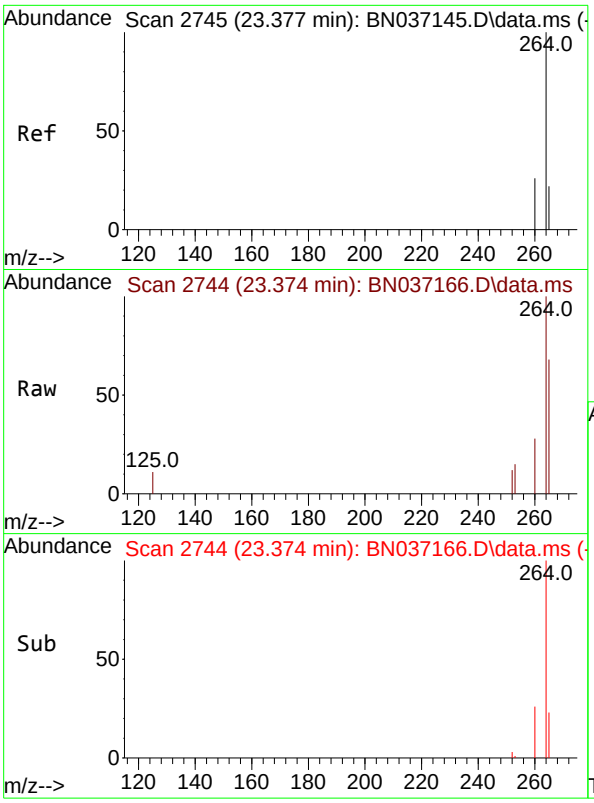


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.348 ng
RT: 21.108 min Scan# 2268
Delta R.T. -0.009 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:149 Resp: 3537

Ion	Ratio	Lower	Upper
149	100		
167	25.7	21.0	31.4
279	3.1	2.9	4.3



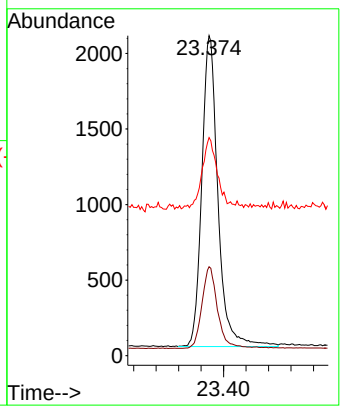


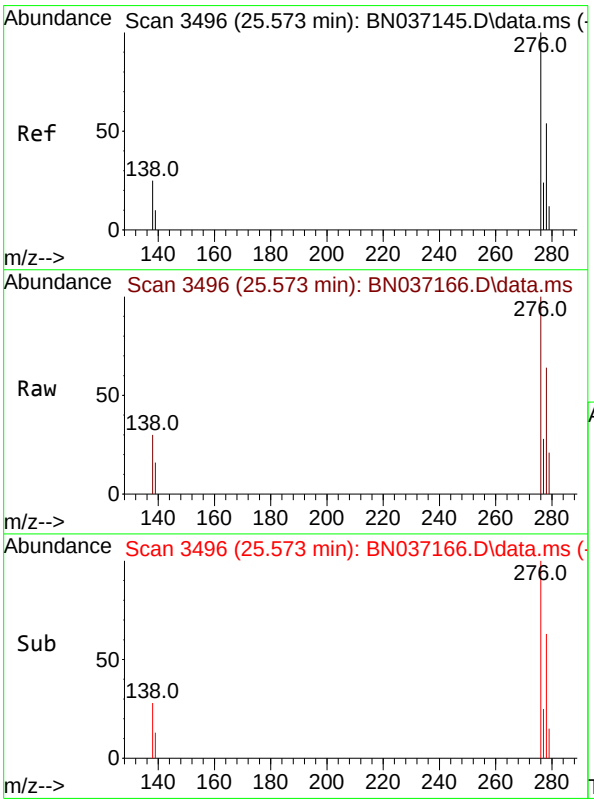
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.374 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 4092

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.1	33.1
265	68.1	55.8	83.8

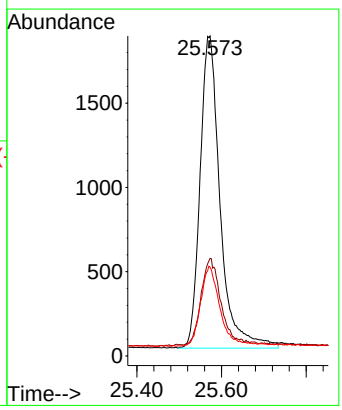


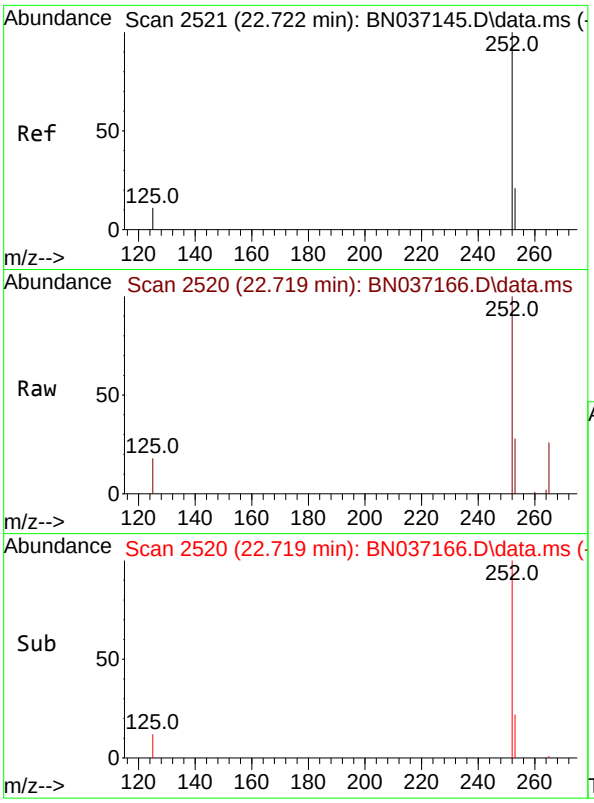


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.573 min Scan# 3496
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:276 Resp: 6087

Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.0	31.6
277	24.7	19.4	29.2



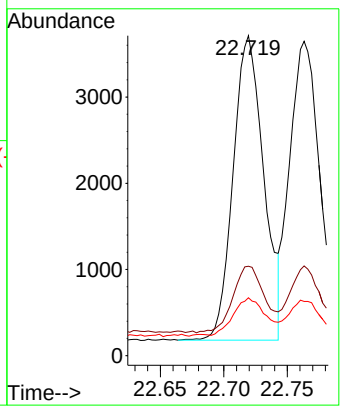


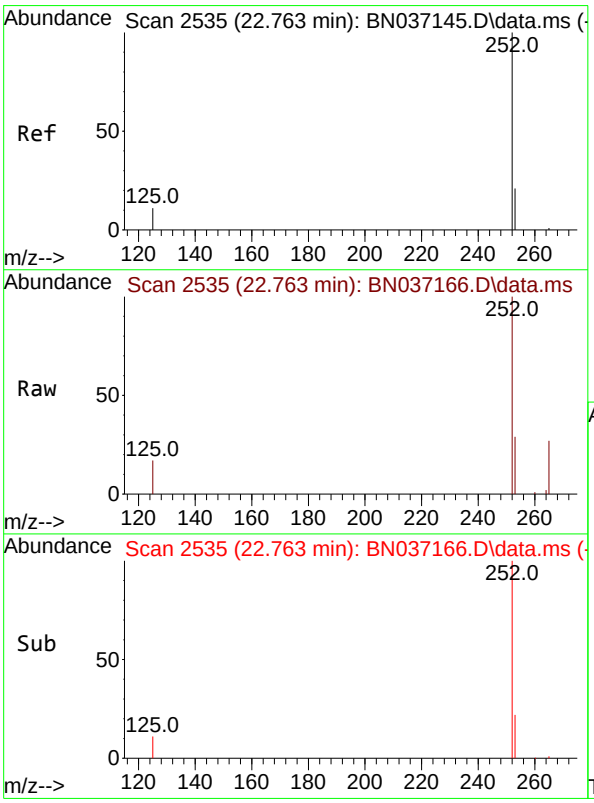
#37
Benzo(b)fluoranthene
Concen: 0.358 ng
RT: 22.719 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 5916

Ion	Ratio	Lower	Upper
252	100		
253	27.9	22.3	33.5
125	18.1	13.2	19.8

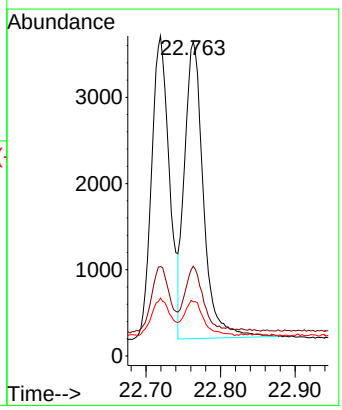


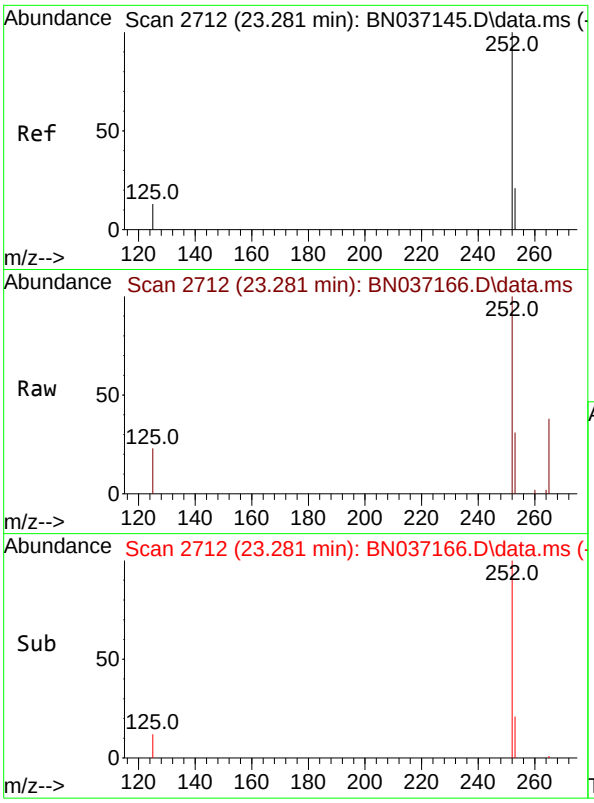


#38
Benzo(k)fluoranthene
Concen: 0.359 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:252 Resp: 6048

Ion	Ratio	Lower	Upper
252	100		
253	28.5	22.2	33.4
125	17.2	13.2	19.8



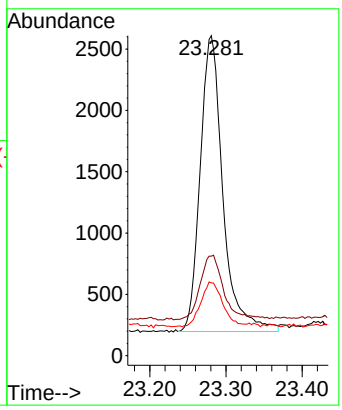


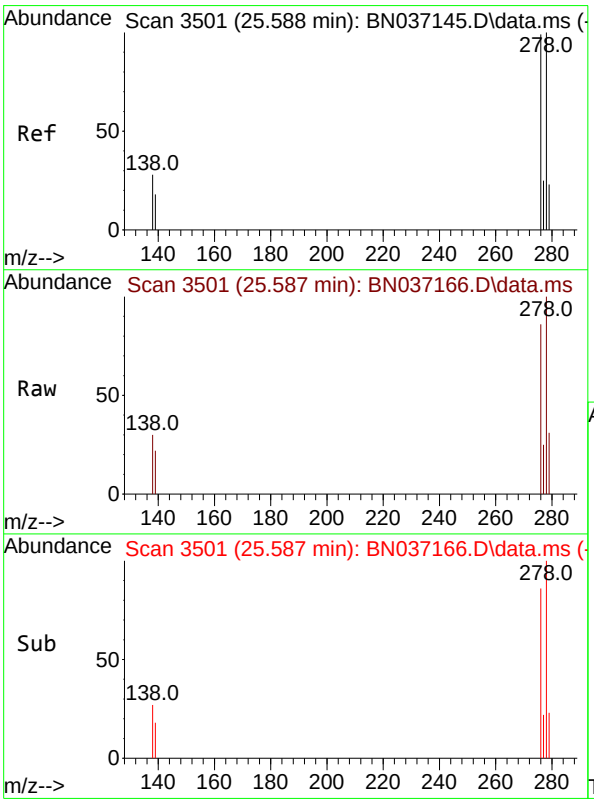
#39
Benzo(a)pyrene
Concen: 0.361 ng
RT: 23.281 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4995

Ion	Ratio	Lower	Upper
252	100		
253	31.1	25.0	37.4
125	22.8	17.0	25.6

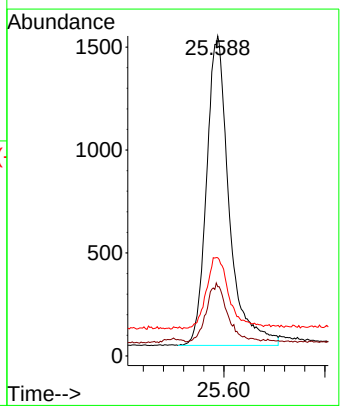


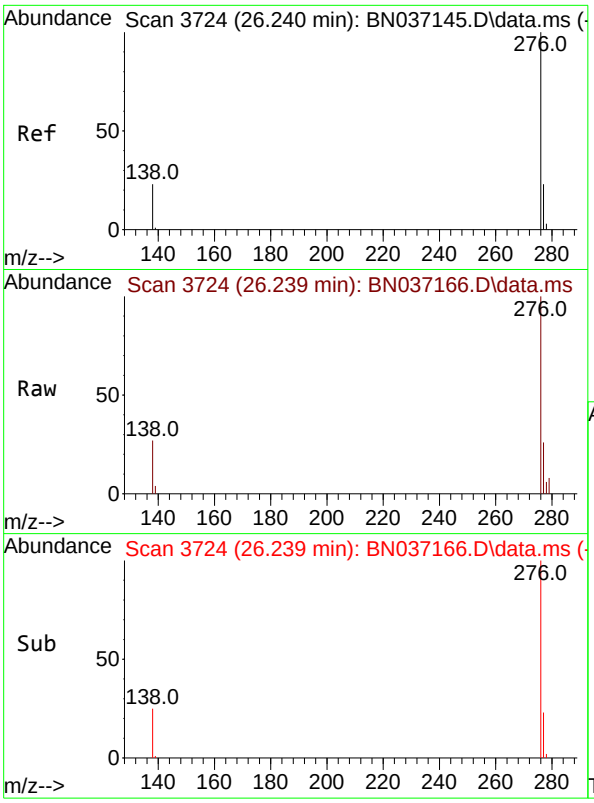


#40
Dibenzo(a,h)anthracene
Concen: 0.371 ng
RT: 25.587 min Scan# 3501
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Tgt Ion:278 Resp: 4662

Ion	Ratio	Lower	Upper
278	100		
139	21.6	17.6	26.4
279	30.7	26.0	39.0



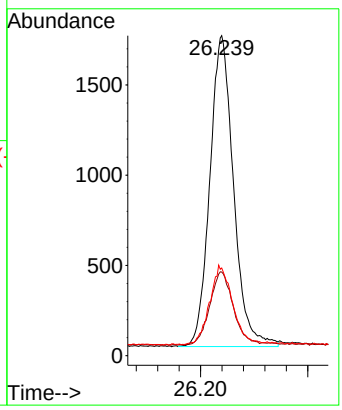


#41
Benzo(g,h,i)perylene
Concen: 0.367 ng
RT: 26.239 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037166.D
Acq: 04 Jun 2025 10:27

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 5291

Ion	Ratio	Lower	Upper
276	100		
277	26.2	20.9	31.3
138	27.4	20.8	31.2



Evaluate Continuing Calibration Report

Sample Results: **BN037166.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037166.D
Acq On : 04 Jun 2025 10:27
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 04 10:54:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00
2		1,4-Dioxane	0.533	0.507	4.9	131	0.00
3		n-Nitrosodimethylamine	1.071	1.003	6.3	124	0.00
4	S	2-Fluorophenol	0.989	0.951	3.8	133	0.00
5	S	Phenol-d6	1.199	1.170	2.4	136	0.00
6		bis(2-Chloroethyl)ether	1.144	1.169	-2.2	136	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	138	0.00
8	S	Nitrobenzene-d5	0.422	0.420	0.5	137	0.00
9		Naphthalene	1.154	1.123	2.7	138	0.00
10		Hexachlorobutadiene	0.251	0.246	2.0	130	0.00
11	SURR	2-Methylnaphthalene-d10	0.557	0.558	-0.2	137	0.00
12		2-Methylnaphthalene	0.740	0.690	6.8	137	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00
14	S	2,4,6-Tribromophenol	0.161	0.138	14.3	125	-0.01
15	S	2-Fluorobiphenyl	1.705	1.701	0.2	139	0.00
16		Acenaphthylene	1.961	1.775	9.5	133	0.00
17		Acenaphthene	1.273	1.161	8.8	133	0.00
18		Fluorene	1.674	1.470	12.2	129	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	126	0.00
20		4,6-Dinitro-2-methylphenol	0.077	0.071	7.8	178#	-0.01
21		4-Bromophenyl-phenylether	0.262	0.235	10.3	121	0.00
22		Hexachlorobenzene	0.283	0.269	4.9	126	0.00
23		Atrazine	0.216	0.181	16.2	122	0.00
24		Pentachlorophenol	0.124	0.120	3.2	164#	-0.01
25		Phenanthrene	1.296	1.184	8.6	125	-0.01
26		Anthracene	1.183	1.014	14.3	123	0.00
27	SURR	Fluoranthene-d10	1.016	0.928	8.7	120	0.00
28		Fluoranthene	1.432	1.217	15.0	120	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	118	0.00
30		Pyrene	1.953	1.860	4.8	120	0.00
31	S	Terphenyl-d14	0.942	0.909	3.5	120	0.00
32		Benzo(a)anthracene	1.448	1.344	7.2	123	0.00
33		Chrysene	1.612	1.470	8.8	118	0.00
34		Bis(2-ethylhexyl)phthalate	0.914	0.794	13.1	121	0.00
35	I	Perylene-d12	1.000	1.000	0.0	121	0.00
36		Indeno(1,2,3-cd)pyrene	1.591	1.488	6.5	120	0.00
37		Benzo(b)fluoranthene	1.615	1.446	10.5	123	0.00
38		Benzo(k)fluoranthene	1.648	1.478	10.3	122	0.00
39	C	Benzo(a)pyrene	1.352	1.221	9.7	121	0.00
40		Dibenzo(a,h)anthracene	1.227	1.139	7.2	119	0.00
41		Benzo(g,h,i)perylene	1.410	1.293	8.3	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Sample Results: **BN037166.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037166.D
Acq On : 04 Jun 2025 10:27
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 04 10:54:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	131	0.00
2		1,4-Dioxane	0.400	0.381	4.8	131	0.00
3		n-Nitrosodimethylamine	0.400	0.375	6.3	124	0.00
4	S	2-Fluorophenol	0.400	0.385	3.8	133	0.00
5	S	Phenol-d6	0.400	0.390	2.5	136	0.00
6		bis(2-Chloroethyl)ether	0.400	0.409	-2.2	136	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	138	0.00
8	S	Nitrobenzene-d5	0.400	0.398	0.5	137	0.00
9		Naphthalene	0.400	0.389	2.8	138	0.00
10		Hexachlorobutadiene	0.400	0.391	2.3	130	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.401	-0.3	137	0.00
12		2-Methylnaphthalene	0.400	0.373	6.8	137	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	133	0.00
14	S	2,4,6-Tribromophenol	0.400	0.342	14.5	125	-0.01
15	S	2-Fluorobiphenyl	0.400	0.399	0.3	139	0.00
16		Acenaphthylene	0.400	0.362	9.5	133	0.00
17		Acenaphthene	0.400	0.365	8.8	133	0.00
18		Fluorene	0.400	0.351	12.3	129	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	126	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.515	-28.7#	178	-0.01
21		4-Bromophenyl-phenylether	0.400	0.358	10.5	121	0.00
22		Hexachlorobenzene	0.400	0.381	4.8	126	0.00
23		Atrazine	0.400	0.335	16.3	122	0.00
24		Pentachlorophenol	0.400	0.498	-24.5	164	-0.01
25		Phenanthrene	0.400	0.366	8.5	125	-0.01
26		Anthracene	0.400	0.343	14.2	123	0.00
27	SURR	Fluoranthene-d10	0.400	0.365	8.8	120	0.00
28		Fluoranthene	0.400	0.340	15.0	120	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	118	0.00
30		Pyrene	0.400	0.381	4.8	120	0.00
31	S	Terphenyl-d14	0.400	0.386	3.5	120	0.00
32		Benzo(a)anthracene	0.400	0.371	7.3	123	0.00
33		Chrysene	0.400	0.365	8.8	118	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.348	13.0	121	0.00
35	I	Perylene-d12	0.400	0.400	0.0	121	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.374	6.5	120	0.00
37		Benzo(b)fluoranthene	0.400	0.358	10.5	123	0.00
38		Benzo(k)fluoranthene	0.400	0.359	10.3	122	0.00
39	C	Benzo(a)pyrene	0.400	0.361	9.8	121	0.00
40		Dibenzo(a,h)anthracene	0.400	0.371	7.3	119	0.00
41		Benzo(g,h,i)perylene	0.400	0.367	8.3	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

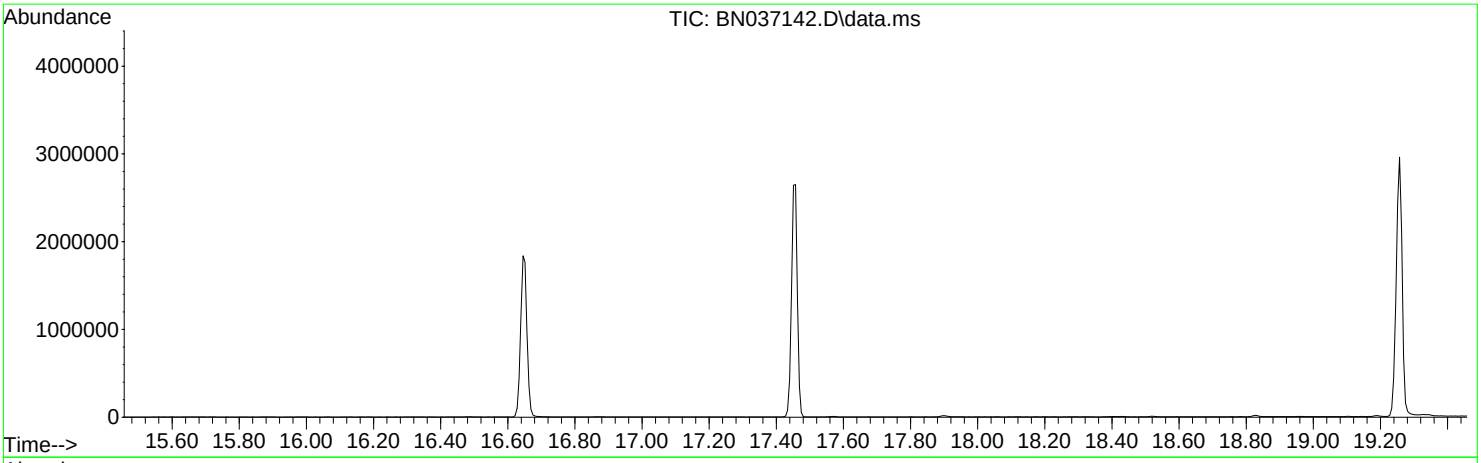
Sample Results: **BN037142.D**

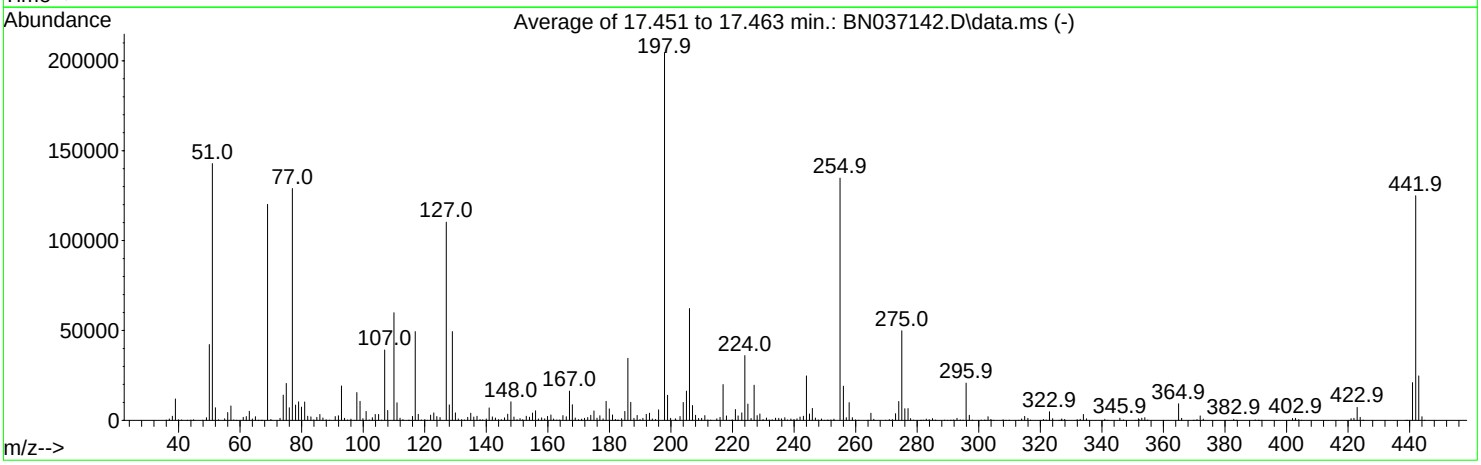
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037142.D
Acq On : 03 Jun 2025 10:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 04 01:52:03 2025





AutoFind: Scans 2476, 2477, 2478; Background Corrected with Scan 2469

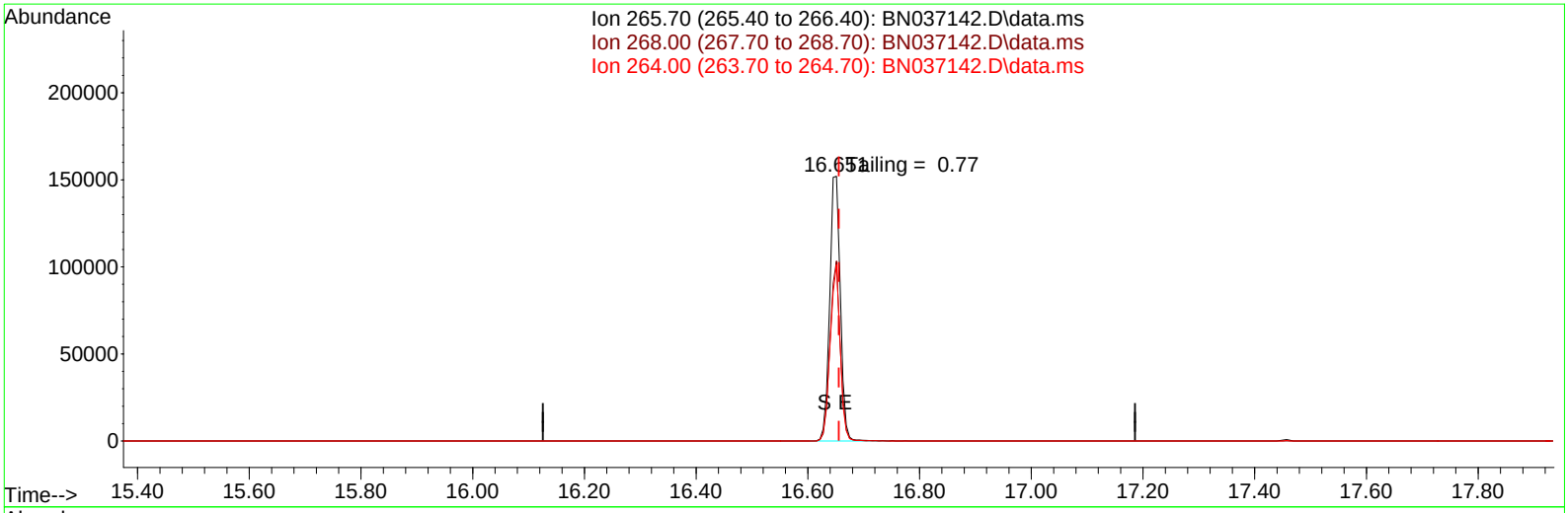
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	69.8	142869	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	58.7	120176	PASS
70	69	0.00	2	0.5	575	PASS
127	198	10	80	53.9	110283	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	204619	PASS
199	198	5	9	6.8	13950	PASS
275	198	10	60	24.4	49829	PASS
365	198	1	100	4.5	9270	PASS
441	198	0.01	100	10.3	21027	PASS
442	442	50	100	100.0	124989	PASS
443	442	15	24	19.8	24771	PASS

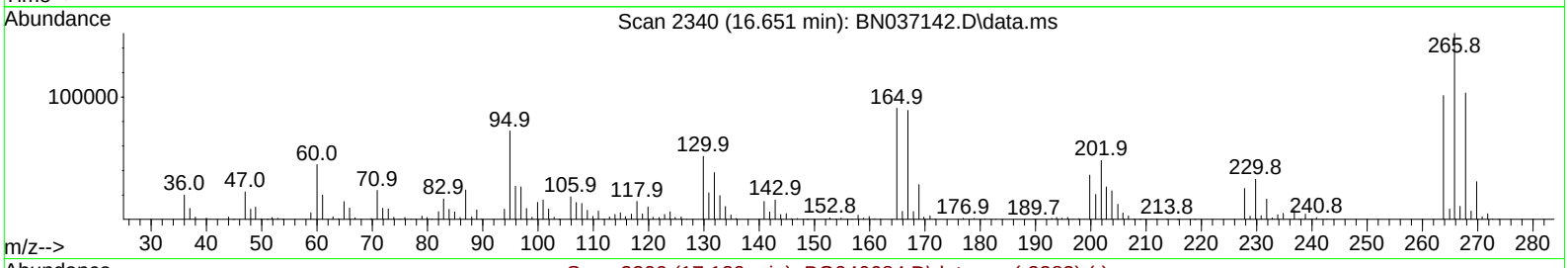
Sample Results: **BN037142.D**

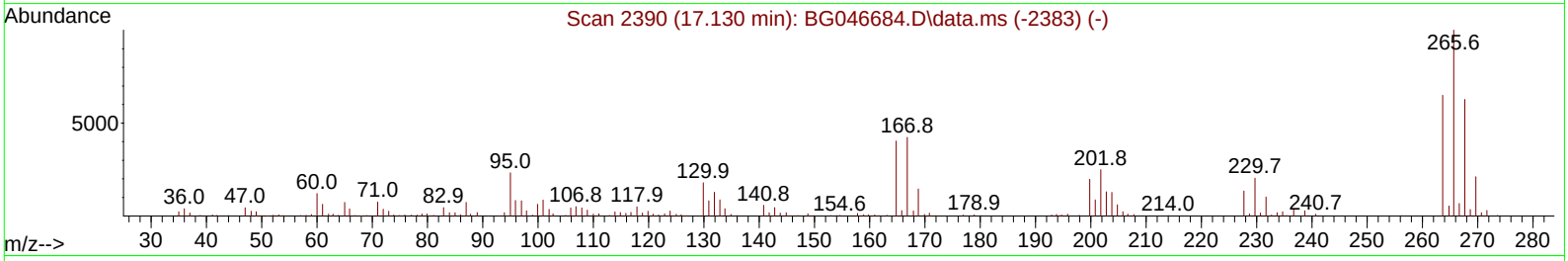
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037142.D
Acq On : 03 Jun 2025 10:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 03 13:49:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 27 07:40:28 2025
Response via : Initial Calibration







TIC: BN037142.D\data.ms

(70) Pentachlorophenol (C)

16.651min (-0.005) 16176.78 ng

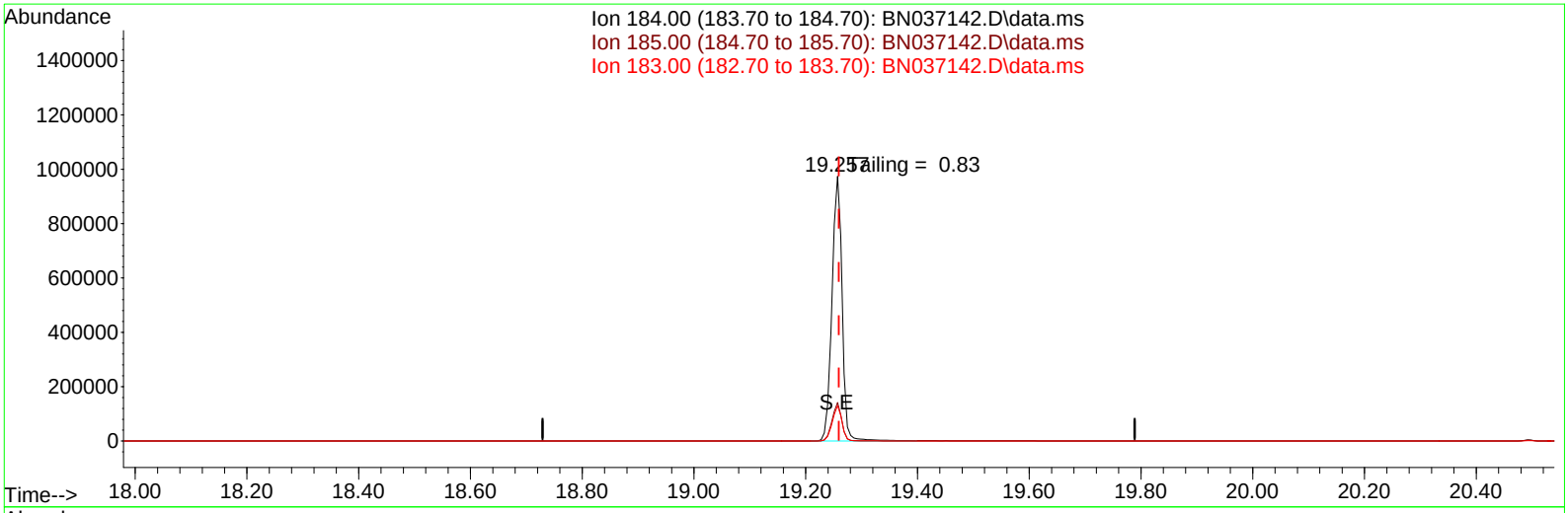
response 200710

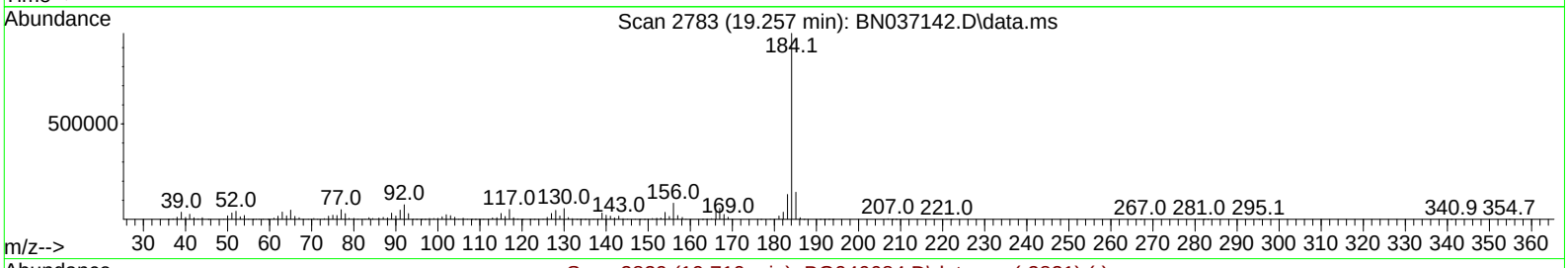
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.97
264.00	61.60	66.57
0.00	0.00	0.00

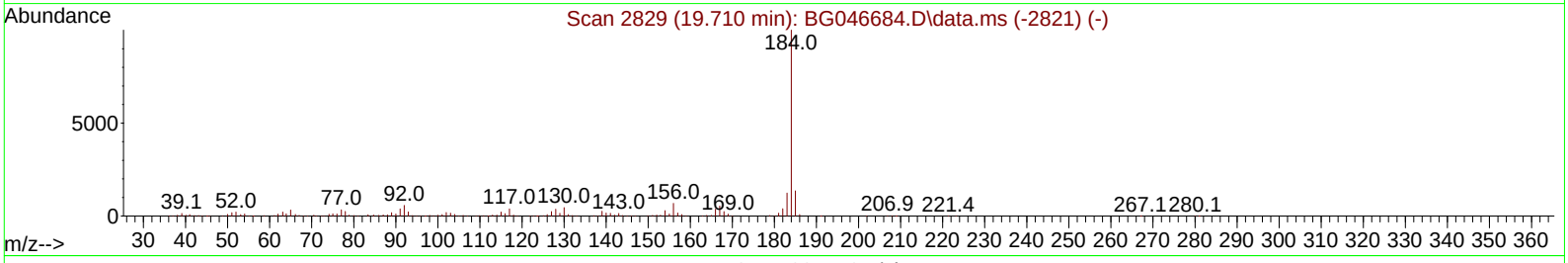
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060325\
Data File : BN037142.D
Acq On : 03 Jun 2025 10:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 03 13:56:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 27 07:40:28 2025
Response via : Initial Calibration







TIC: BN037142.D\data.ms

(77) Benzidine

19.257min (-0.002) 0.00 ng

response 1234162

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.54
183.00	13.20	13.40
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/3/2025	BNA_N	BN037142.D
Compound Name	**Response**	**Retention Time**
DDT	724224	20.492
DDD	9498	20.104
DDE	658	19.545
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
10156	734380	1.38

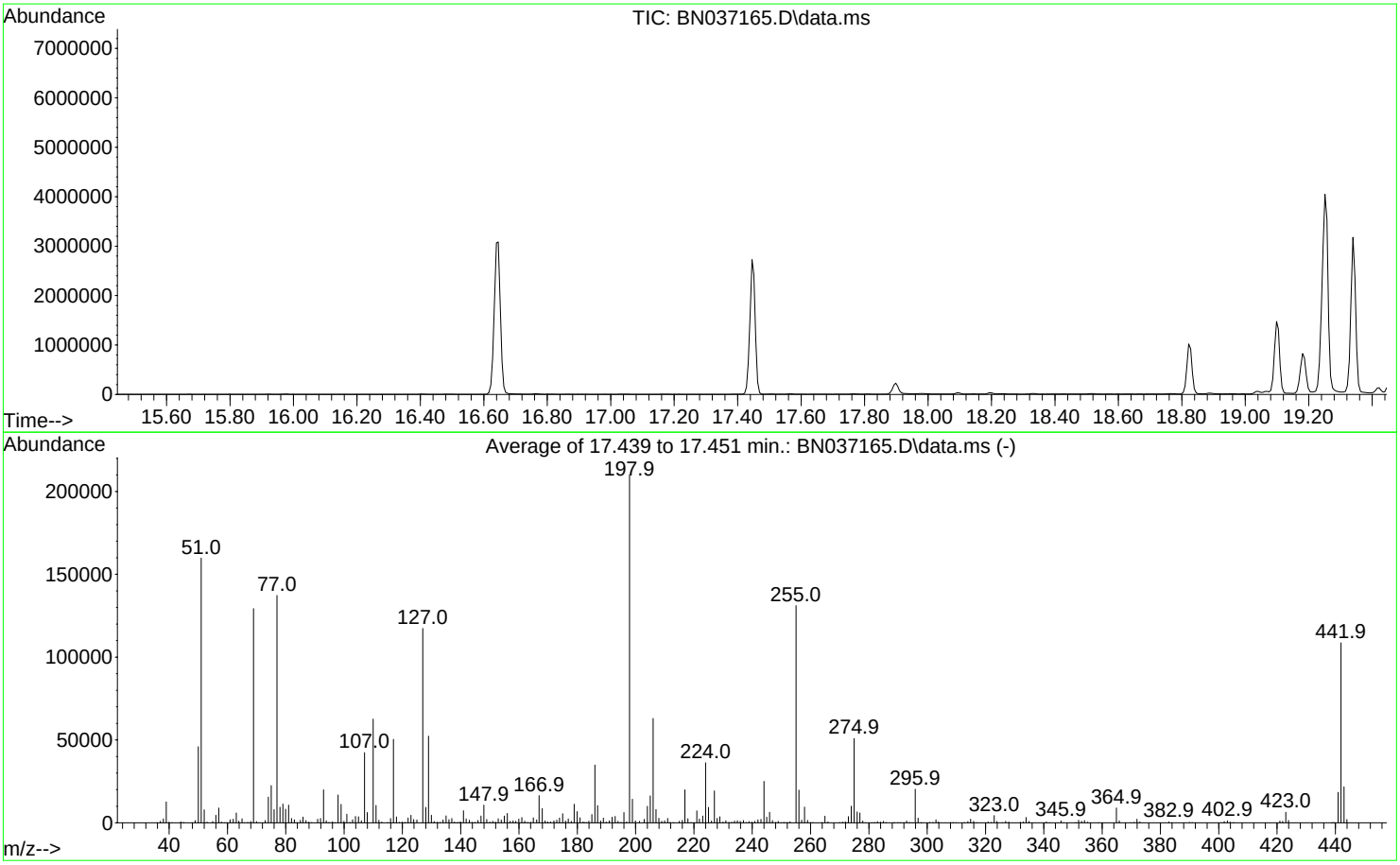
Sample Results: **BN037165.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037165.D
Acq On : 04 Jun 2025 09:04
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-BN060325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 04 01:52:03 2025



AutoFind: Scans 2474, 2475, 2476; Background Corrected with Scan 2467

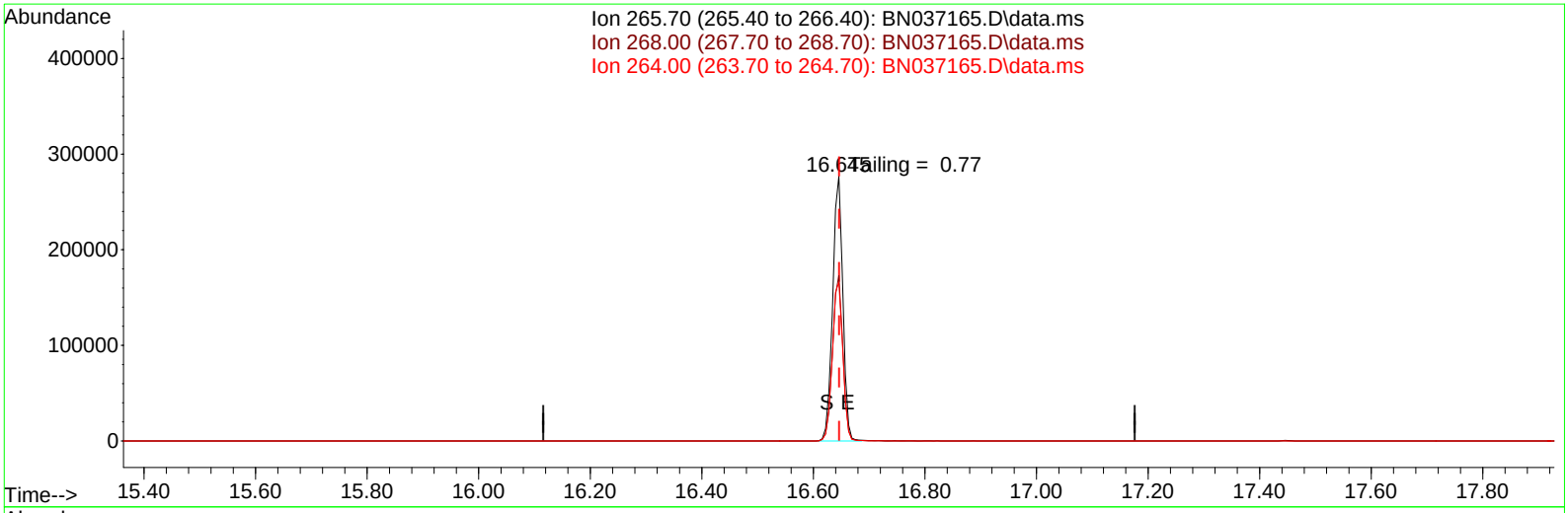
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	76.1	159787	PASS
68	69	0.00	2	0.6	809	PASS
69	198	0.00	100	61.6	129340	PASS
70	69	0.00	2	0.5	691	PASS
127	198	10	80	55.9	117328	PASS
197	198	0.00	2	0.2	516	PASS
198	198	100	100	100.0	209941	PASS
199	198	5	9	6.8	14242	PASS
275	198	10	60	24.2	50891	PASS
365	198	1	100	4.3	8935	PASS
441	198	0.01	100	8.7	18355	PASS
442	442	50	100	100.0	108645	PASS
443	442	15	24	20.0	21721	PASS

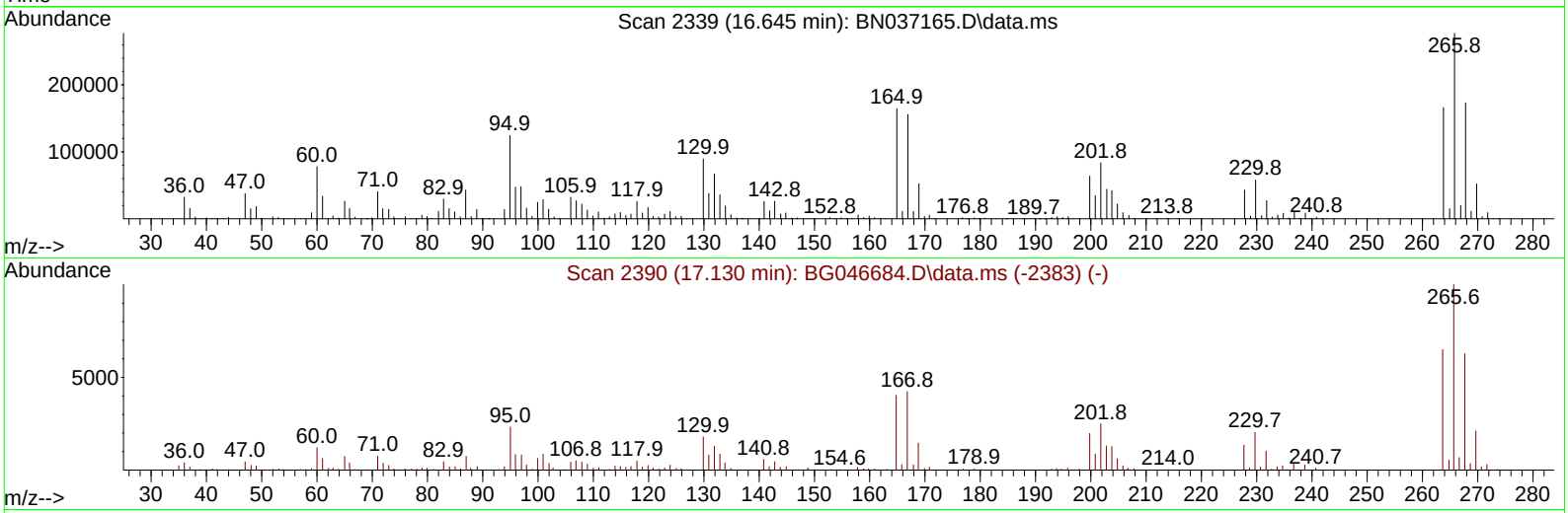
Sample Results: **BN037165.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037165.D
Acq On : 04 Jun 2025 09:04
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 04 15:38:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 02:36:29 2025
Response via : Initial Calibration





TIC: BN037165.D\data.ms

(70) Pentachlorophenol (C)

16.645min (-0.001) 30128.98 ng

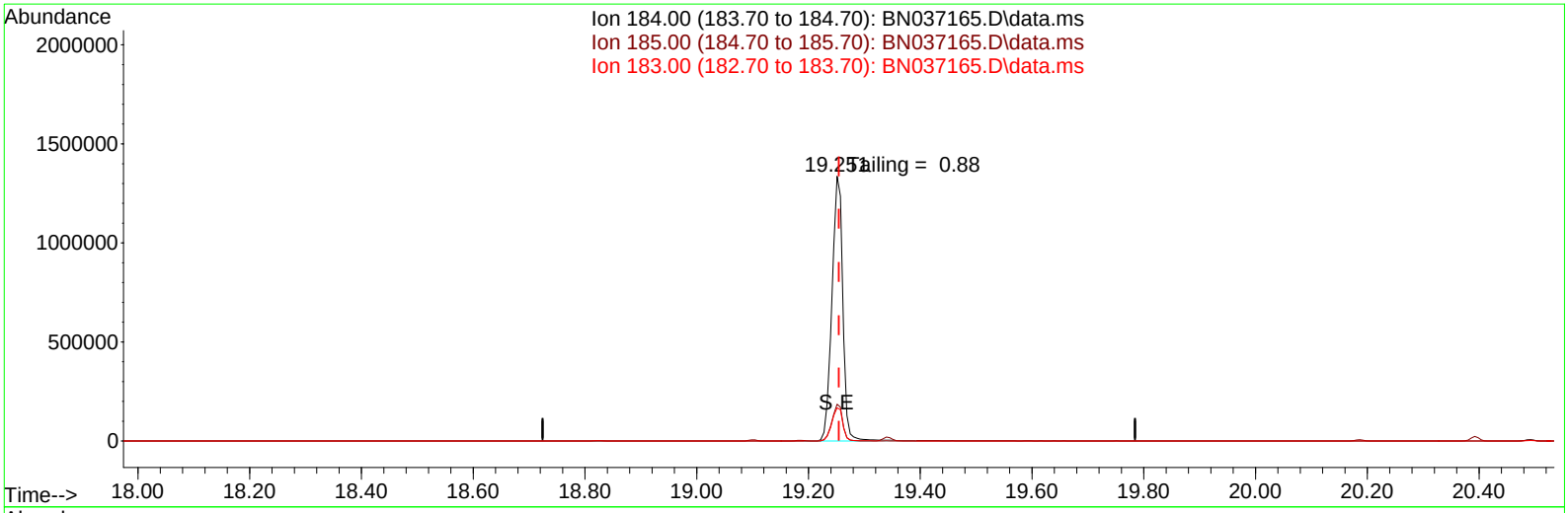
response 352539

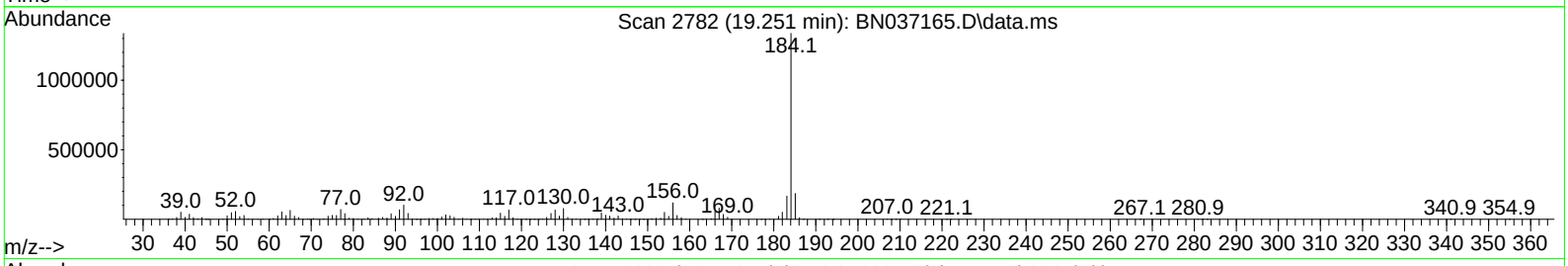
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.46
264.00	61.60	59.96
0.00	0.00	0.00

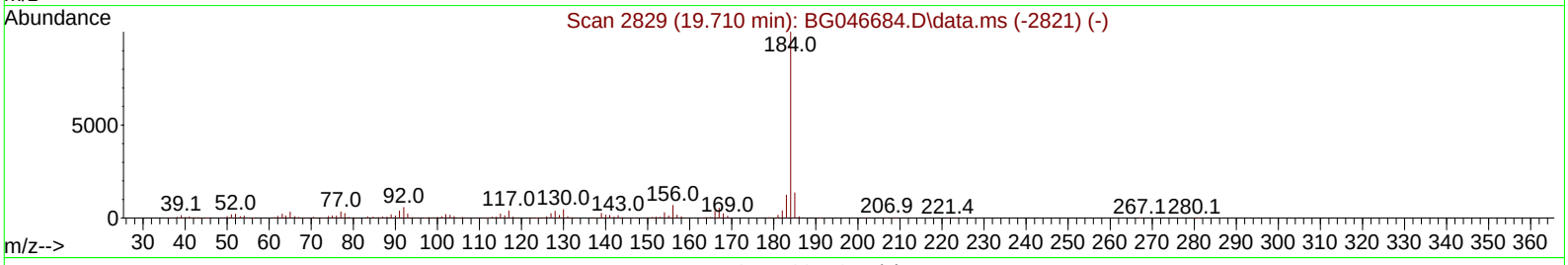
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037165.D
Acq On : 04 Jun 2025 09:04
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 04 15:36:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 02:36:29 2025
Response via : Initial Calibration







TIC: BN037165.D\data.ms

(77) Benzidine

19.251min (-0.003) 0.00 ng

response 1811758

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.92
183.00	13.20	12.53
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/4/2025	BNA_N	BN037165.D
Compound Name	**Response**	**Retention Time**
DDT	1237139	20.492
DDD	19824	20.098
DDE	602	19.539
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
20426	1257565	1.62

Raw Data: **BN037167.D**

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB168238BL	SDG No.:	Q2181
Lab Sample ID:	PB168238BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN037167.D	1	06/02/25 08:55	06/04/25 11:03	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.040	U	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.34		20 - 139	84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		54 - 157	84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		27 - 154	85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		30 - 155	91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	93%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2940	7.589			
1146-65-2	Naphthalene-d8	7110	10.372			
15067-26-2	Acenaphthene-d10	3690	14.245			
1517-22-2	Phenanthrene-d10	6730	16.984			
1719-03-5	Chrysene-d12	4440	21.189			
1520-96-3	Perylene-d12	4130	23.374			

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\BN060425\
Data File : BN037167.D
Acq On : 04 Jun 2025 11:03
Operator : RC/JU
Sample : PB168238BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Quant Time: Jun 04 12:25:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	2941	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	7107	0.400	ng	0.00
13) Acenaphthene-d10	14.245	164	3690	0.400	ng	0.01
19) Phenanthrene-d10	16.984	188	6730	0.400	ng	0.00
29) Chrysene-d12	21.189	240	4435	0.400	ng	0.00
35) Perylene-d12	23.374	264	4132	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.192	112	2715	0.373	ng	0.00
5) Phenol-d6	6.773	99	3089	0.350	ng	0.00
8) Nitrobenzene-d5	8.739	82	2547	0.340	ng	0.00
11) 2-Methylnaphthalene-d10	11.971	152	3335	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.743	330	378	0.254	ng	0.00
15) 2-Fluorobiphenyl	12.863	172	5709	0.363	ng	0.00
27) Fluoranthene-d10	19.026	212	5729	0.335	ng	0.00
31) Terphenyl-d14	19.630	244	3861	0.370	ng	0.00
Target Compounds						Qvalue

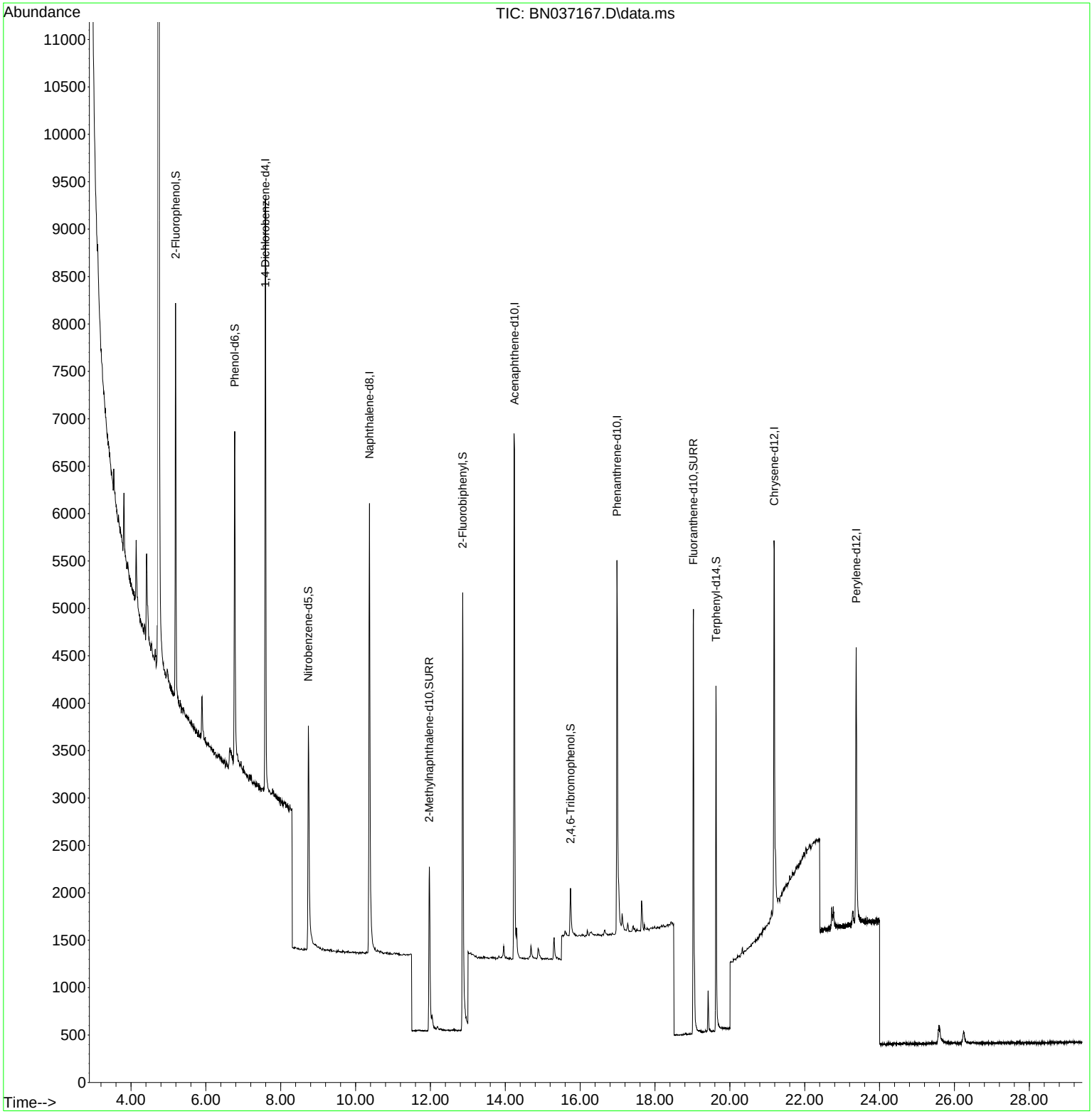
(#) = qualifier out of range (m) = manual integration (+) = signals summed

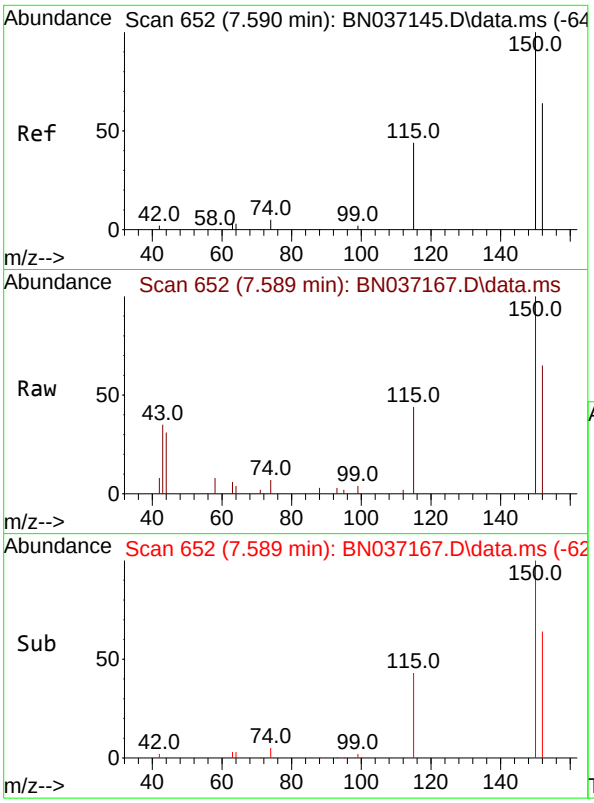
Sample Results: **BN037167.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037167.D
Acq On : 04 Jun 2025 11:03
Operator : RC/JU
Sample : PB168238BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Quant Time: Jun 04 12:25:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration



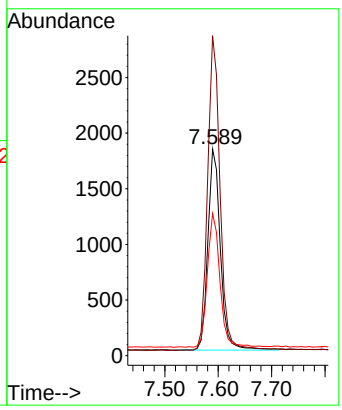


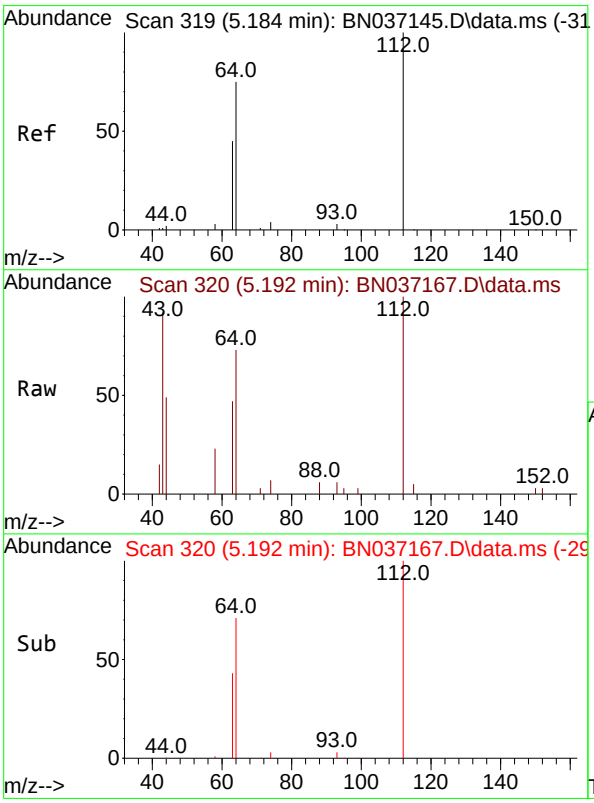
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Tgt Ion:152 Resp: 2941

Ion	Ratio	Lower	Upper
152	100		
150	154.8	123.2	184.8
115	68.8	56.6	85.0

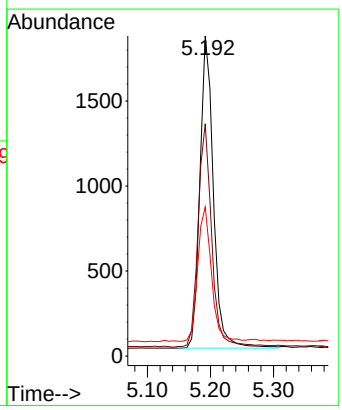


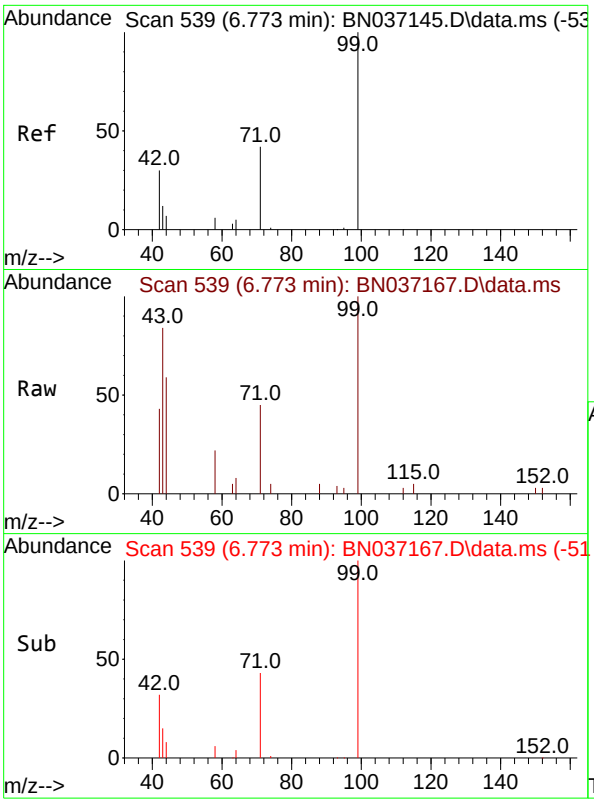


#4
2-Fluorophenol
Concen: 0.373 ng
RT: 5.192 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Tgt Ion:112 Resp: 2715

Ion	Ratio	Lower	Upper
112	100		
64	72.9	56.3	84.5
63	43.6	36.2	54.4



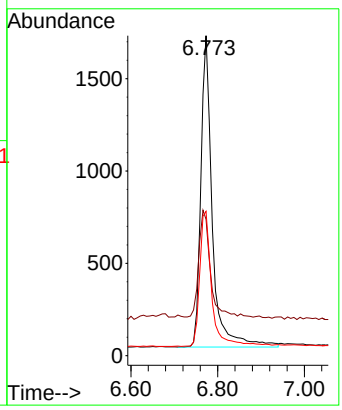


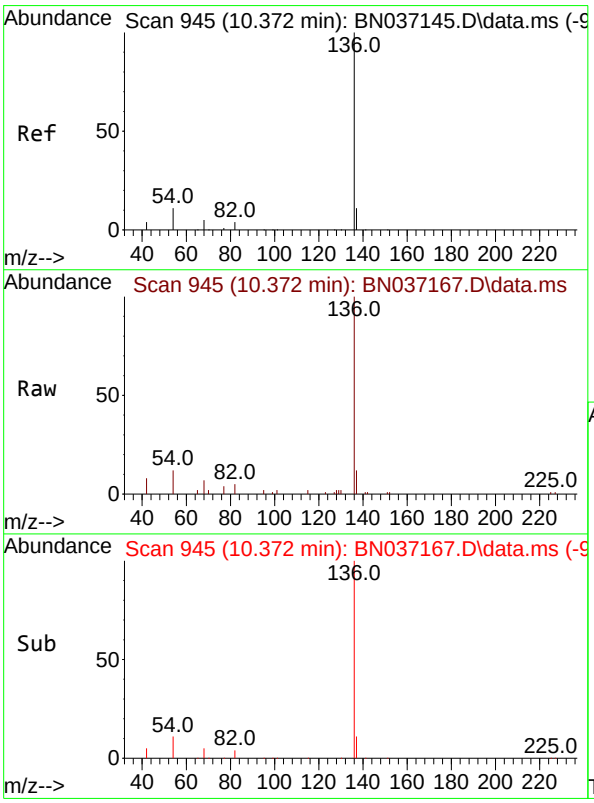
#5
Phenol-d6
Concen: 0.350 ng
RT: 6.773 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Tgt Ion: 99 Resp: 3089

Ion	Ratio	Lower	Upper
99	100		
42	35.4	31.3	46.9
71	46.0	38.2	57.2

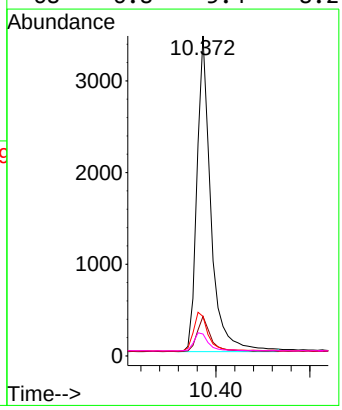


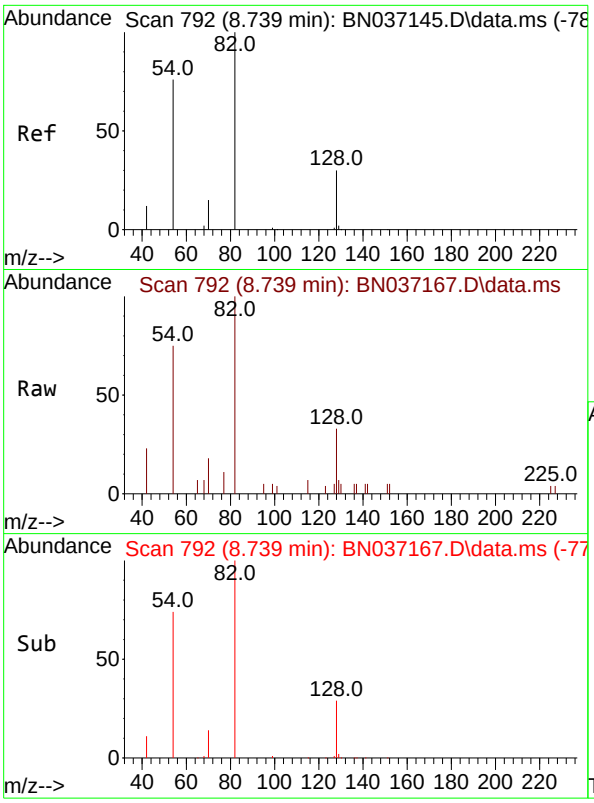


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Tgt Ion:136 Resp: 7107

Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	12.3	9.7	14.5
68	6.8	5.4	8.2



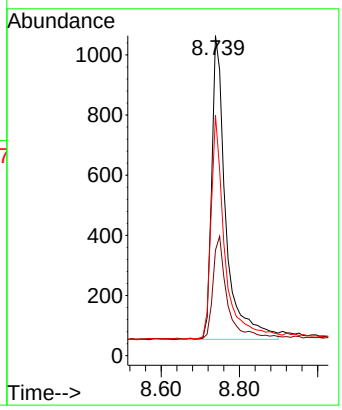


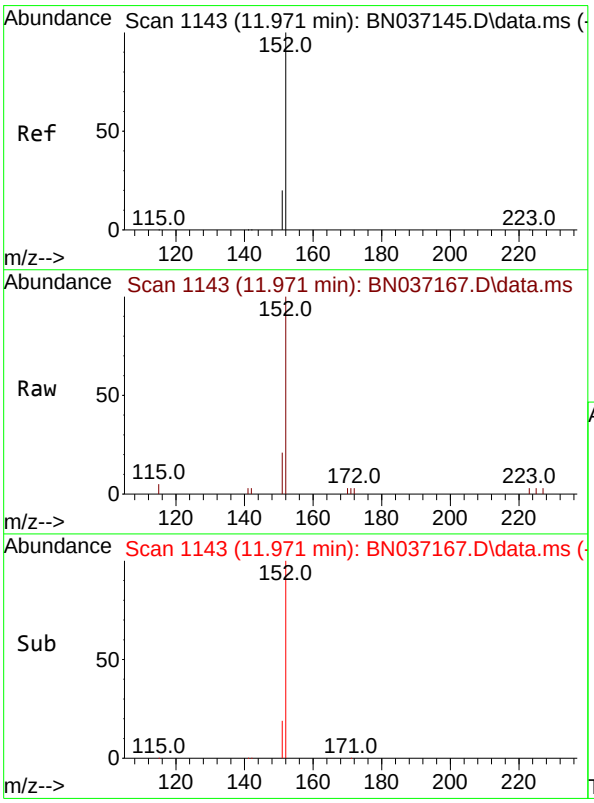
#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.739 min Scan# 7
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Tgt Ion: 82 Resp: 2547

Ion	Ratio	Lower	Upper
82	100		
128	33.0	26.9	40.3
54	75.1	61.4	92.2

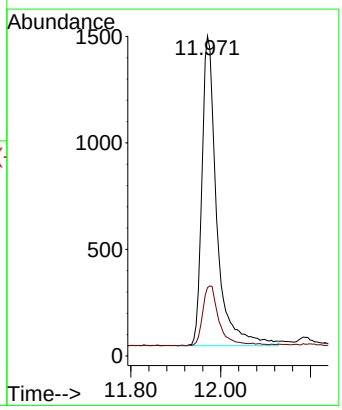


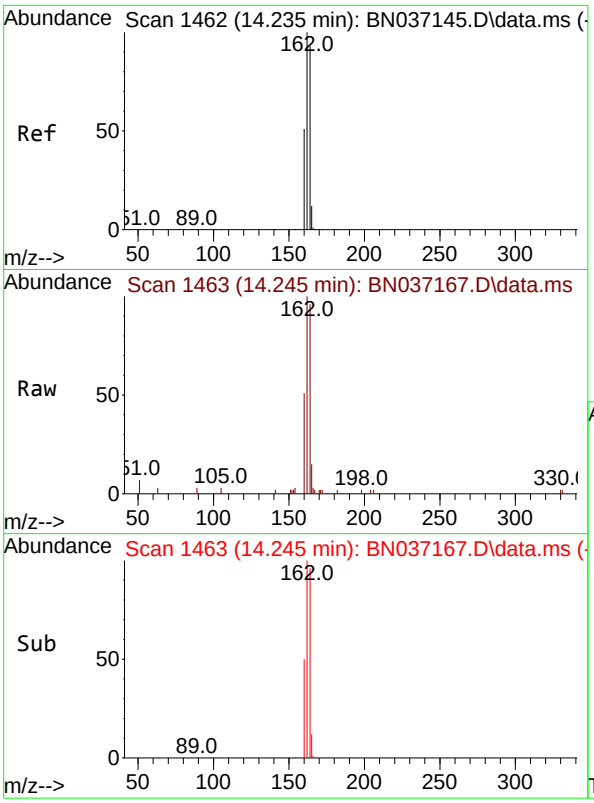


#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.971 min Scan# 1143
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Tgt Ion:152 Resp: 3335

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.1	25.7



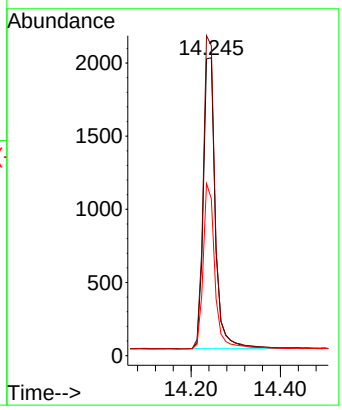


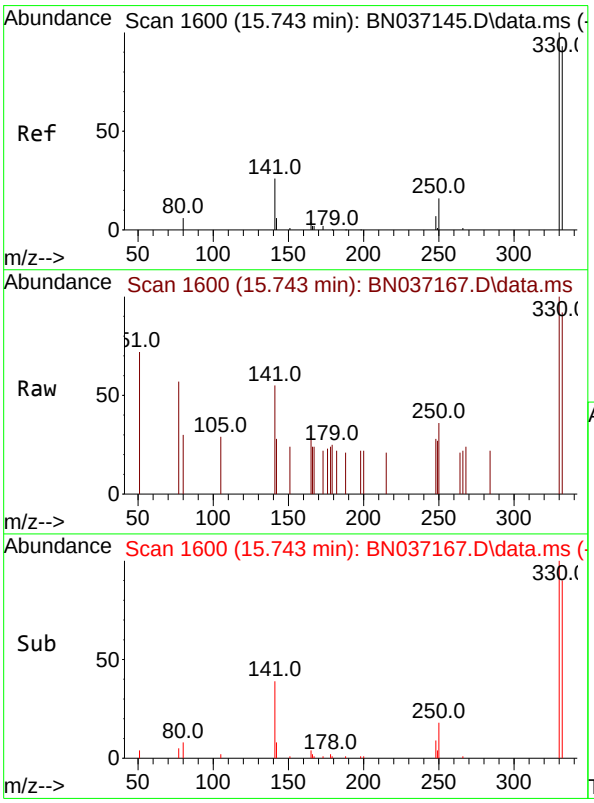
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.245 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Tgt Ion:164 Resp: 3690

Ion	Ratio	Lower	Upper
164	100		
162	104.0	85.5	128.3
160	52.7	44.6	67.0

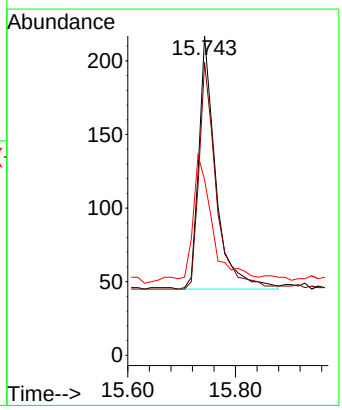


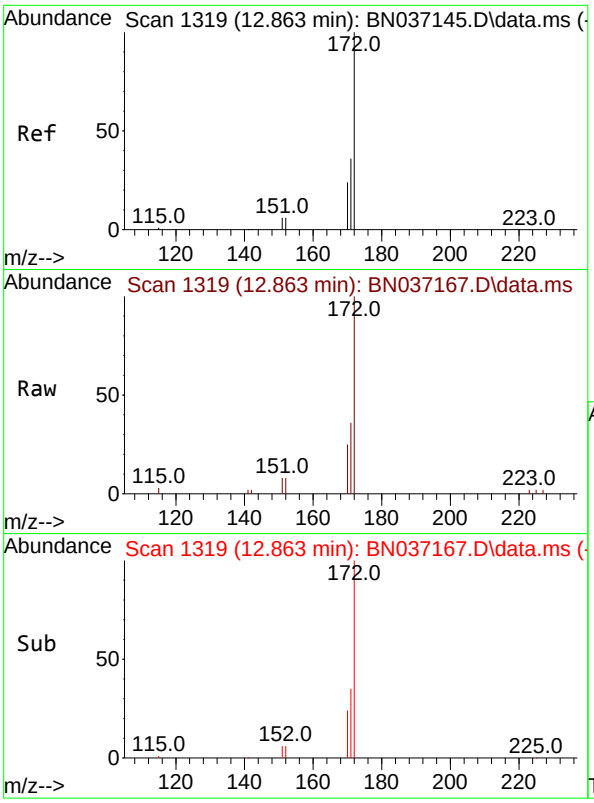


#14
2,4,6-Tribromophenol
Concen: 0.254 ng
RT: 15.743 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Tgt Ion:330 Resp: 378

Ion	Ratio	Lower	Upper
330	100		
332	90.7	77.1	115.7
141	61.9	46.4	69.6



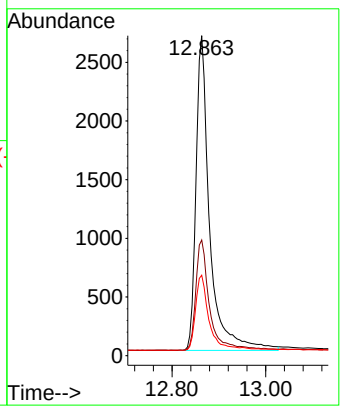


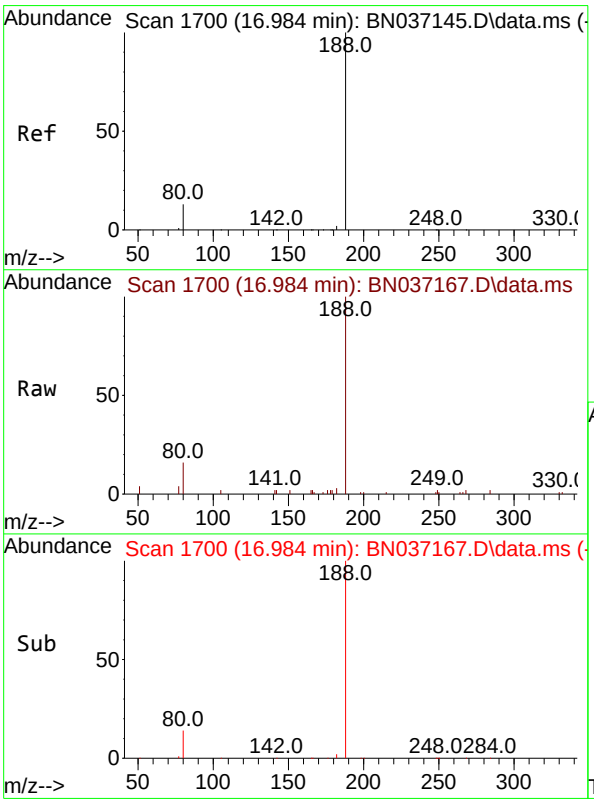
#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Tgt Ion:172 Resp: 5709

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.6	44.4
170	25.2	20.3	30.5

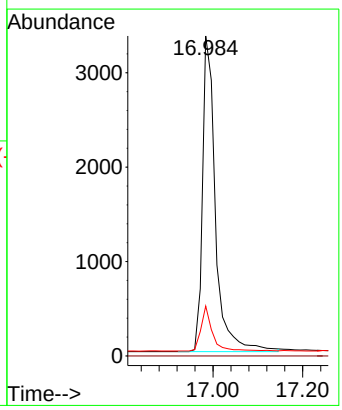


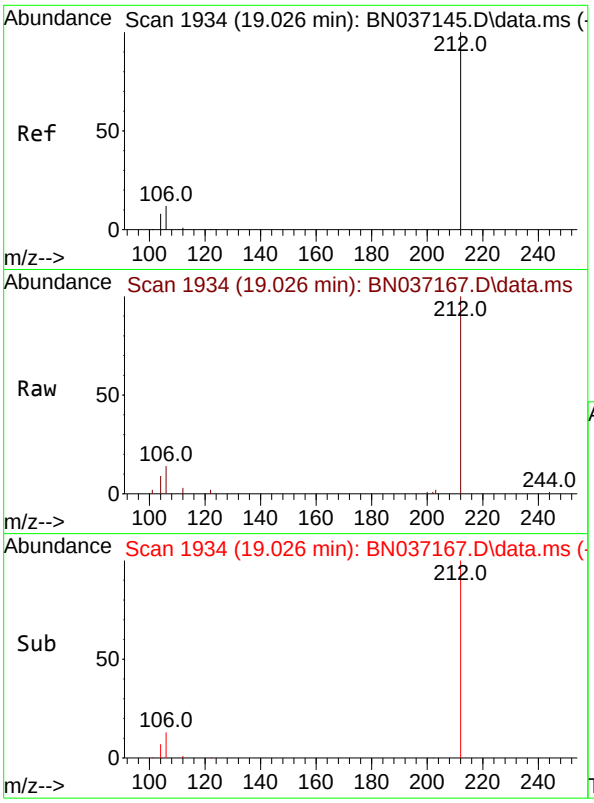


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Tgt Ion:188 Resp: 6730

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.6	11.3	16.9



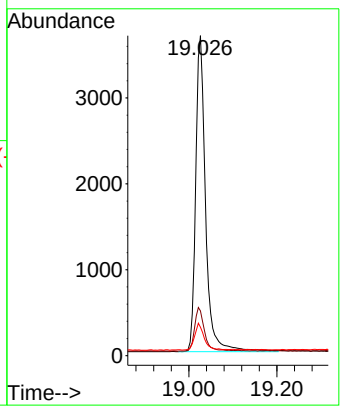


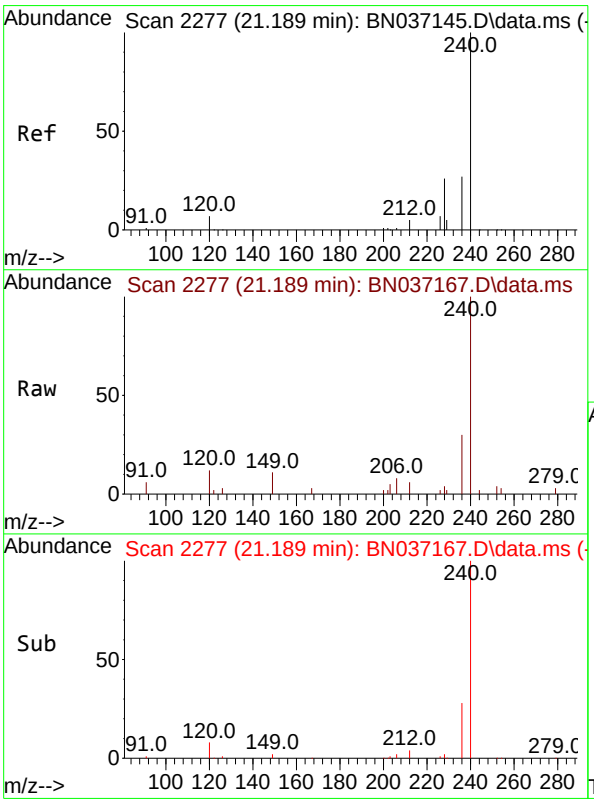
#27
Fluoranthene-d10
Concen: 0.335 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Tgt Ion:212 Resp: 5729

Ion	Ratio	Lower	Upper
212	100		
106	13.7	10.6	15.8
104	8.1	6.6	9.8

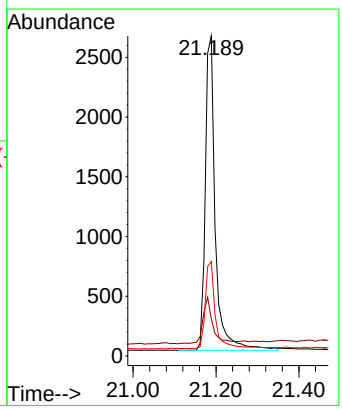


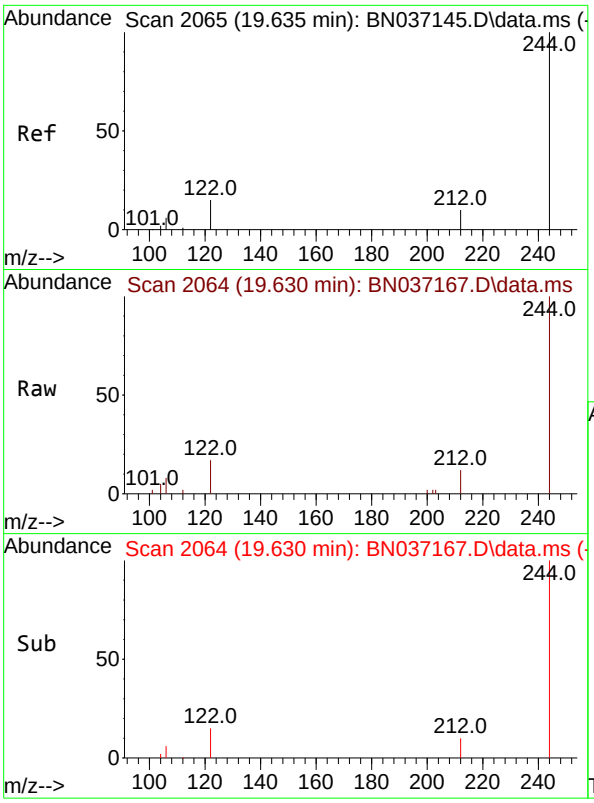


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.000 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Tgt Ion:240 Resp: 4435

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.0	13.4
236	29.5	23.0	34.4



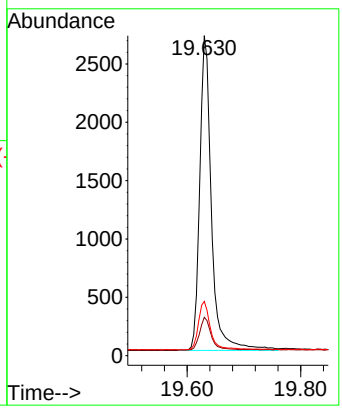


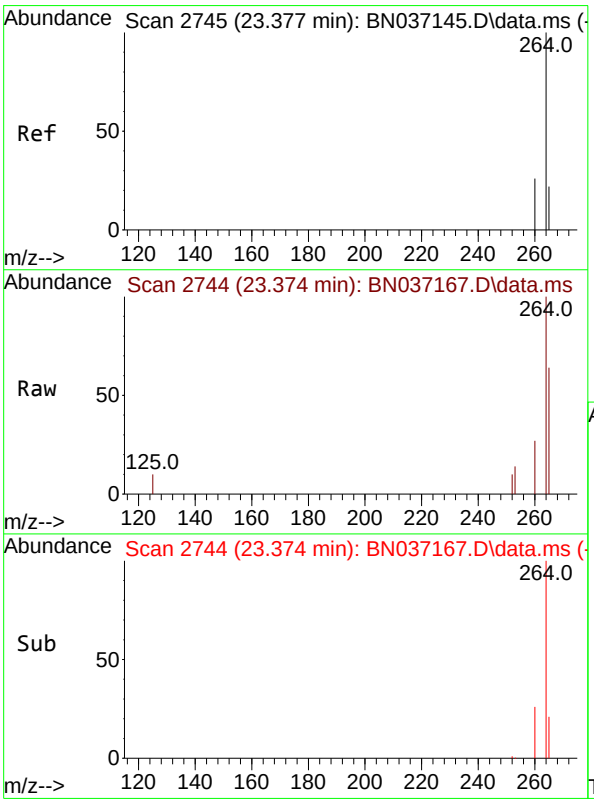
#31
Terphenyl-d14
Concen: 0.370 ng
RT: 19.630 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Instrument :
BNA_N
ClientSampleId :
PB168238BL

Tgt Ion:244 Resp: 3861

Ion	Ratio	Lower	Upper
244	100		
212	12.0	10.0	15.0
122	17.0	13.2	19.8

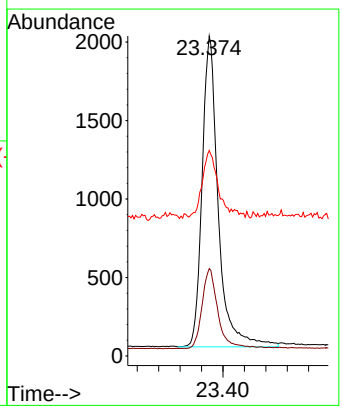




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.374 min Scan# 2744
Delta R.T. -0.003 min
Lab File: BN037167.D
Acq: 04 Jun 2025 11:03

Tgt Ion:264 Resp: 4132

Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.1	33.1
265	64.2	55.8	83.8



Raw Data: **BN037168.D**

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB168238BS	SDG No.:	Q2181
Lab Sample ID:	PB168238BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN037168.D	1	06/02/25 08:55	06/04/25 12:27	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.39		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.38		20 - 139	96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		54 - 157	75%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		27 - 154	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		30 - 155	90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	93%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2100	7.589			
1146-65-2	Naphthalene-d8	5280	10.372			
15067-26-2	Acenaphthene-d10	2700	14.235			
1517-22-2	Phenanthrene-d10	4610	16.984			
1719-03-5	Chrysene-d12	2740	21.189			
1520-96-3	Perylene-d12	2590	23.377			

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\BN060425\
Data File : BN037168.D
Acq On : 04 Jun 2025 12:27
Operator : RC/JU
Sample : PB168238BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 12:59:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168238BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	2103	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	5280	0.400	ng	0.00
13) Acenaphthene-d10	14.235	164	2700	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	4608	0.400	ng	0.00
29) Chrysene-d12	21.189	240	2742	0.400	ng	0.00
35) Perylene-d12	23.377	264	2588	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1971	0.379	ng	0.00
5) Phenol-d6	6.766	99	2258	0.358	ng	0.00
8) Nitrobenzene-d5	8.739	82	1999	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	11.966	152	2814m	0.383	ng	0.00
14) 2,4,6-Tribromophenol	15.743	330	327	0.301	ng	0.00
15) 2-Fluorobiphenyl	12.858	172	4143	0.360	ng	0.00
27) Fluoranthene-d10	19.026	212	3525	0.301	ng	0.00
31) Terphenyl-d14	19.635	244	2396	0.371	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.119	88	1225	0.437	ng	# 34
3) n-Nitrosodimethylamine	3.429	42	2034	0.361	ng	# 99
6) bis(2-Chloroethyl)ether	7.019	93	2059	0.342	ng	95
9) Naphthalene	10.415	128	5371	0.353	ng	99
10) Hexachlorobutadiene	10.714	225	1191	0.359	ng	# 99
12) 2-Methylnaphthalene	12.042	142	3098	0.317	ng	98
16) Acenaphthylene	13.957	152	5187	0.392	ng	99
17) Acenaphthene	14.299	154	3060	0.356	ng	99
18) Fluorene	15.293	166	3960	0.350	ng	100
20) 4,6-Dinitro-2-methylph...	15.389	198	344	0.529	ng	# 65
21) 4-Bromophenyl-phenylether	16.189	248	1106	0.366	ng	95
22) Hexachlorobenzene	16.301	284	1218	0.374	ng	99
23) Atrazine	16.462	200	831	0.333	ng	98
24) Pentachlorophenol	16.649	266	740	0.594	ng	95
25) Phenanthrene	17.033	178	5935	0.398	ng	100
26) Anthracene	17.120	178	5280	0.388	ng	99
28) Fluoranthene	19.054	202	5692	0.345	ng	99
30) Pyrene	19.421	202	5655	0.422	ng	99
32) Benzo(a)anthracene	21.171	228	4122	0.415	ng	99
33) Chrysene	21.224	228	4550	0.412	ng	100
34) Bis(2-ethylhexyl)phtha...	21.117	149	2043	0.326	ng	99
36) Indeno(1,2,3-cd)pyrene	25.573	276	4721	0.459	ng	100
37) Benzo(b)fluoranthene	22.722	252	3986	0.382	ng	97
38) Benzo(k)fluoranthene	22.766	252	4119	0.386	ng	95
39) Benzo(a)pyrene	23.281	252	3570	0.408	ng	95
40) Dibenzo(a,h)anthracene	25.588	278	3621	0.456	ng	99
41) Benzo(g,h,i)perylene	26.240	276	3996	0.438	ng	98

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

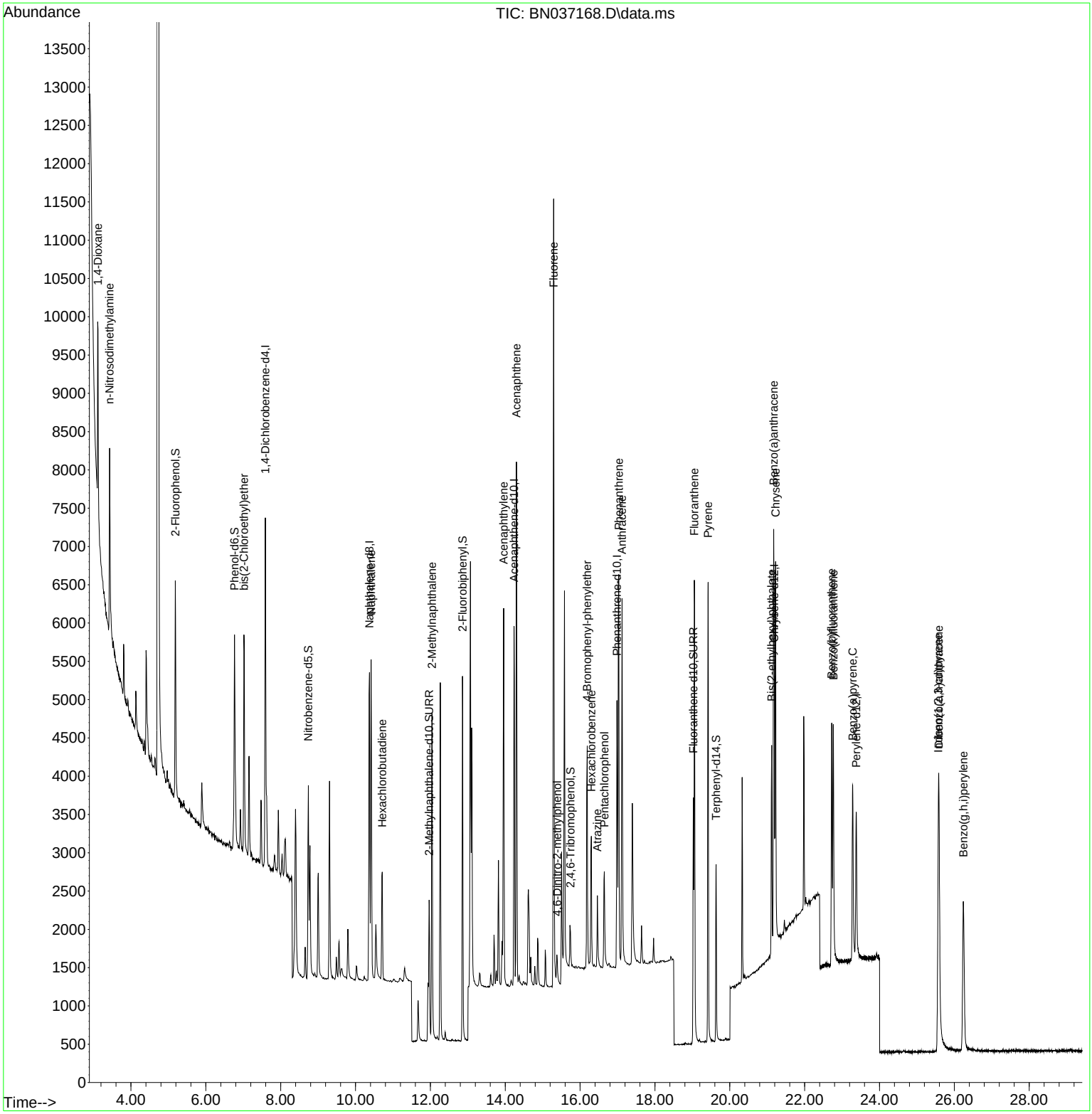
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037168.D
Acq On : 04 Jun 2025 12:27
Operator : RC/JU
Sample : PB168238BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

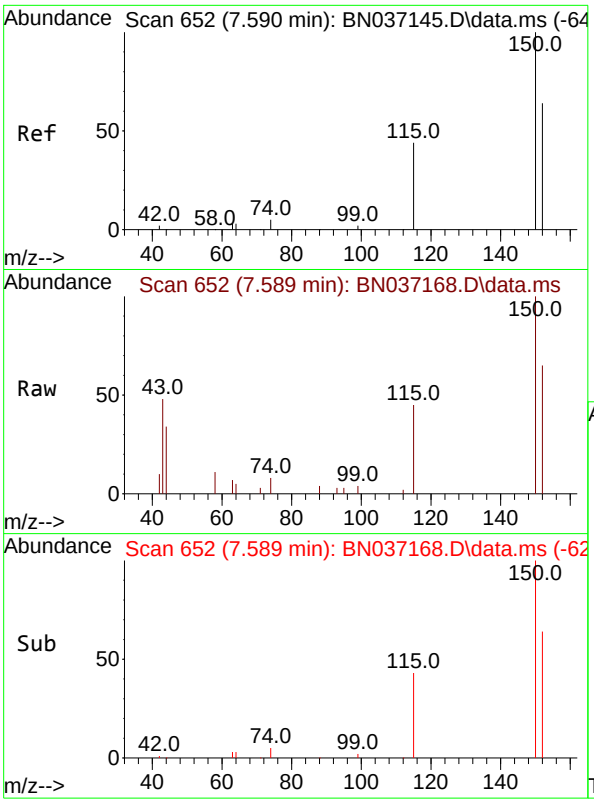
Quant Time: Jun 04 12:59:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168238BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

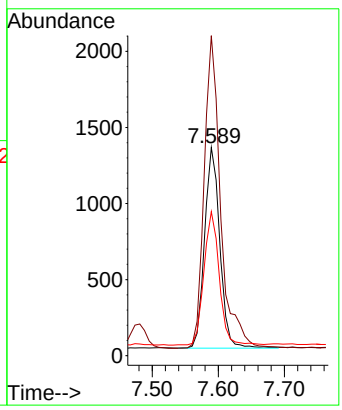




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 6
Delta R.T. -0.001 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:152 Resp: 210

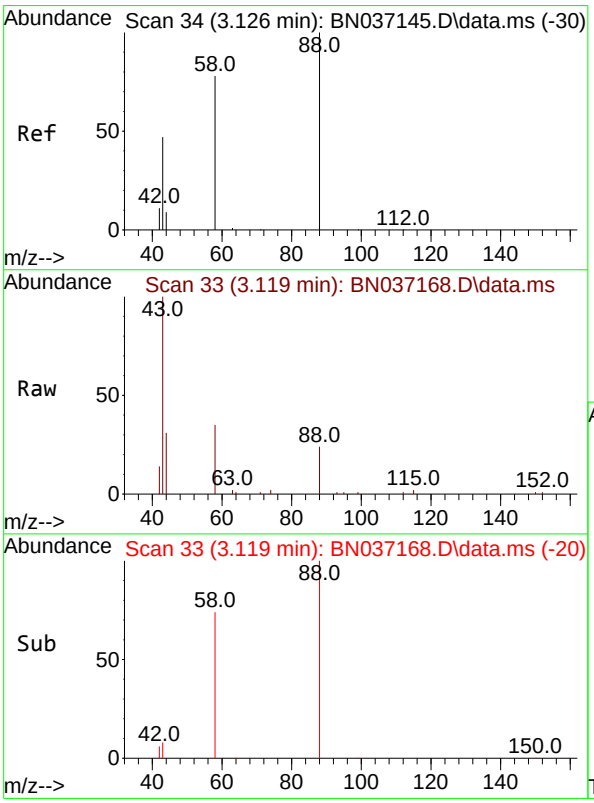
Ion	Ratio	Lower	Upper
152	100		
150	153.7	123.2	184.8
115	69.2	56.6	85.0



Instrument :
BNA_N
ClientSampleId :
PB168238BS

Manual Integrations
APPROVED

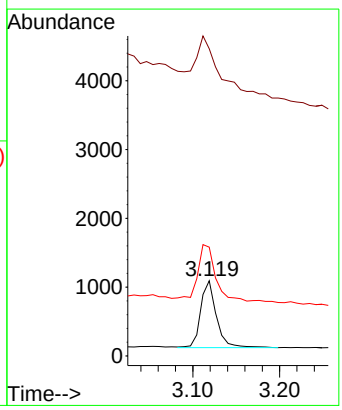
Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

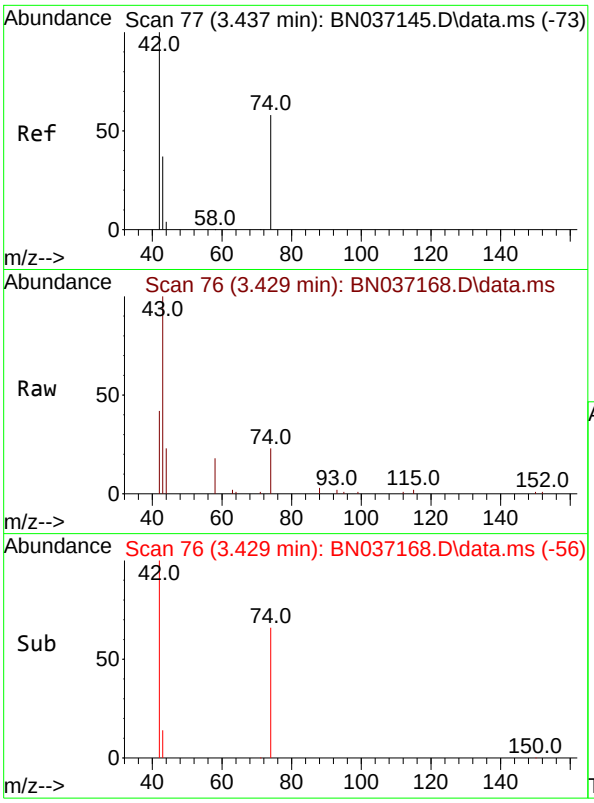


#2
1,4-Dioxane
Concen: 0.437 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion: 88 Resp: 1225

Ion	Ratio	Lower	Upper
88	100		
43	149.7	43.5	65.3#
58	105.1	67.7	101.5#

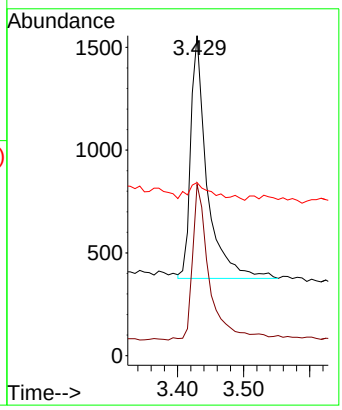




#3
n-Nitrosodimethylamine
Concen: 0.361 ng
RT: 3.429 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion: 42 Resp: 203

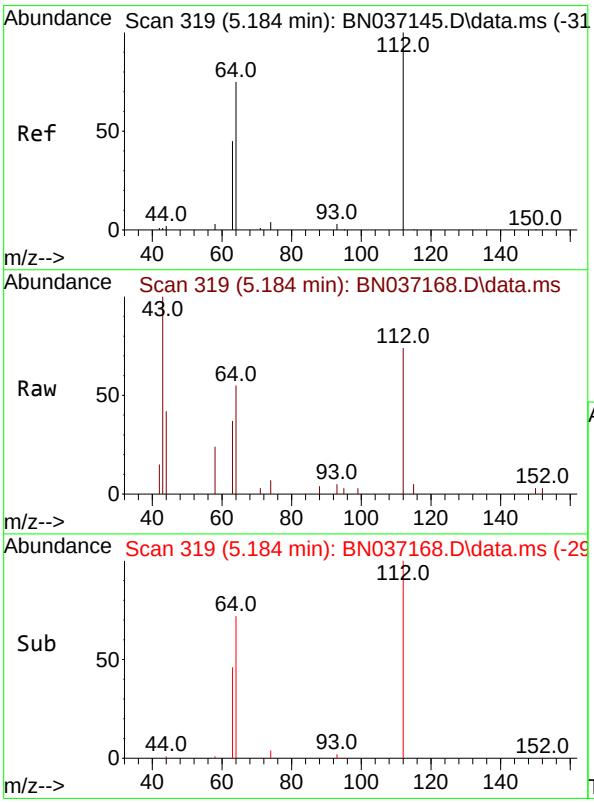
Ion	Ratio	Lower	Upper
42	100		
74	66.5	53.0	79.4
44	10.6	5.9	8.9



Instrument :
BNA_N
ClientSampleId :
PB168238BS

Manual Integrations
APPROVED

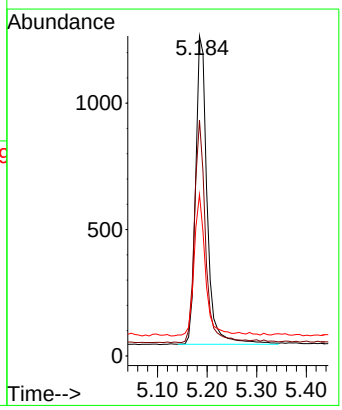
Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

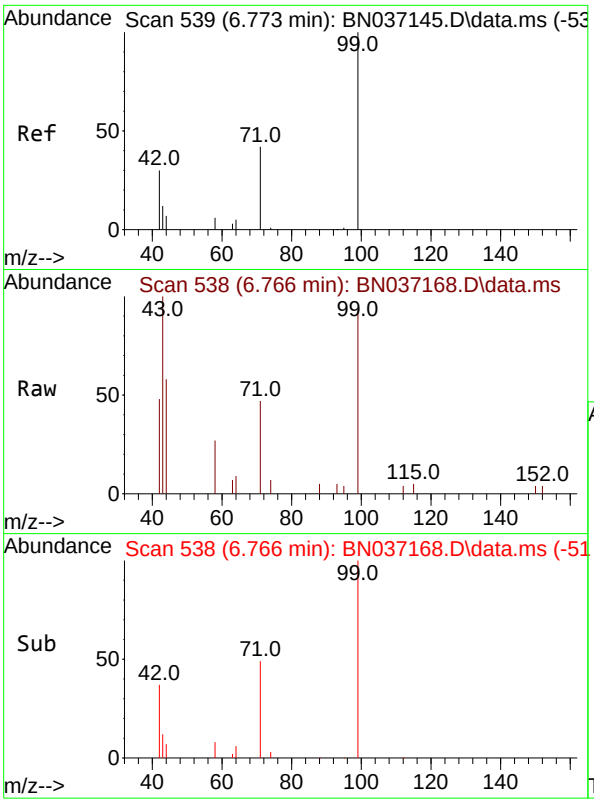


#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:112 Resp: 1971

Ion	Ratio	Lower	Upper
112	100		
64	68.7	56.3	84.5
63	45.0	36.2	54.4





#5
Phenol-d6
Concen: 0.358 ng
RT: 6.766 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion: 99 Resp: 225

Ion	Ratio	Lower	Upper
99	100		
42	40.2	31.3	46.9
71	47.8	38.2	57.2

Instrument :
BNA_N
ClientSampleId :
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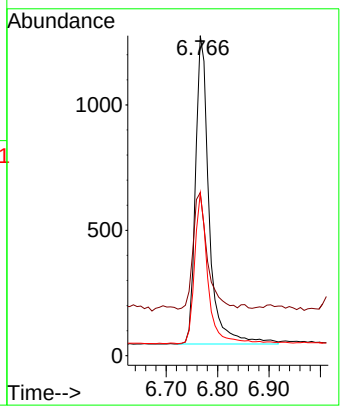
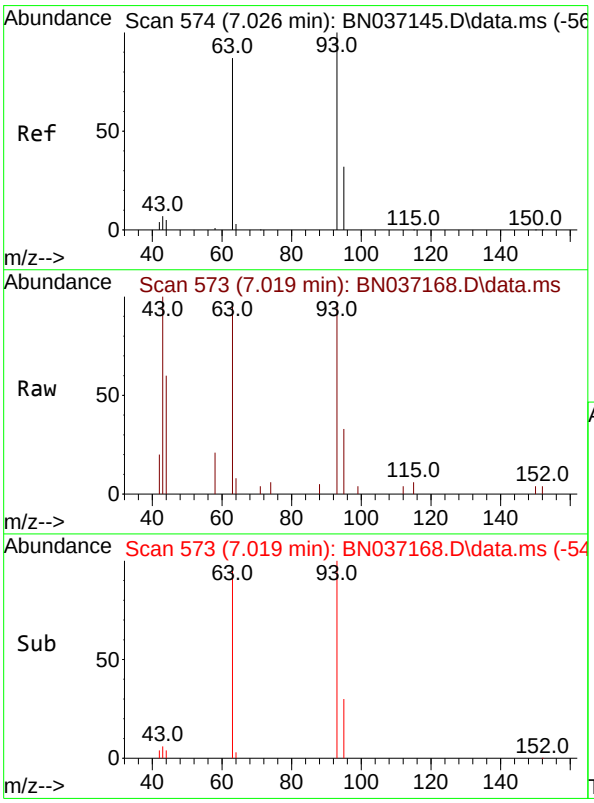
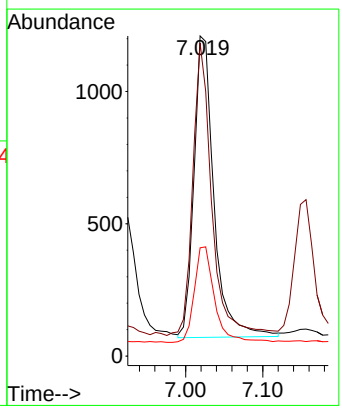


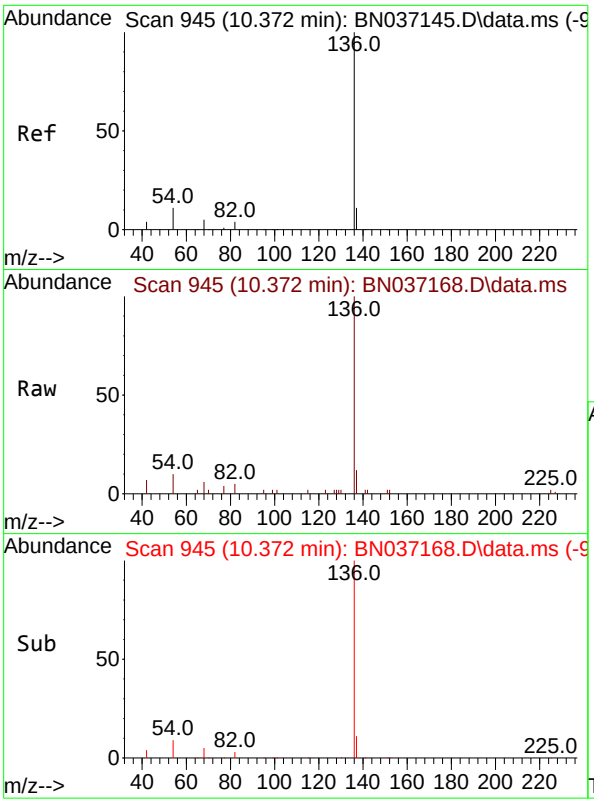


#6
bis(2-Chloroethyl)ether
Concen: 0.342 ng
RT: 7.019 min Scan# 573
Delta R.T. -0.007 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion: 93 Resp: 2059

Ion	Ratio	Lower	Upper
93	100		
63	91.4	68.6	103.0
95	32.1	24.3	36.5

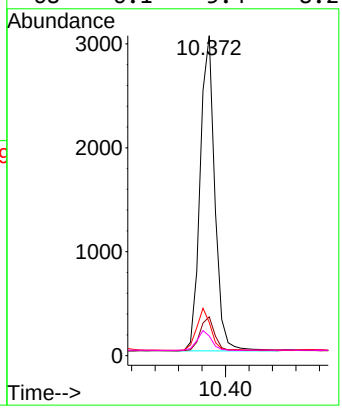




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:136 Resp: 528

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.4	9.7	14.5
68	6.1	5.4	8.2



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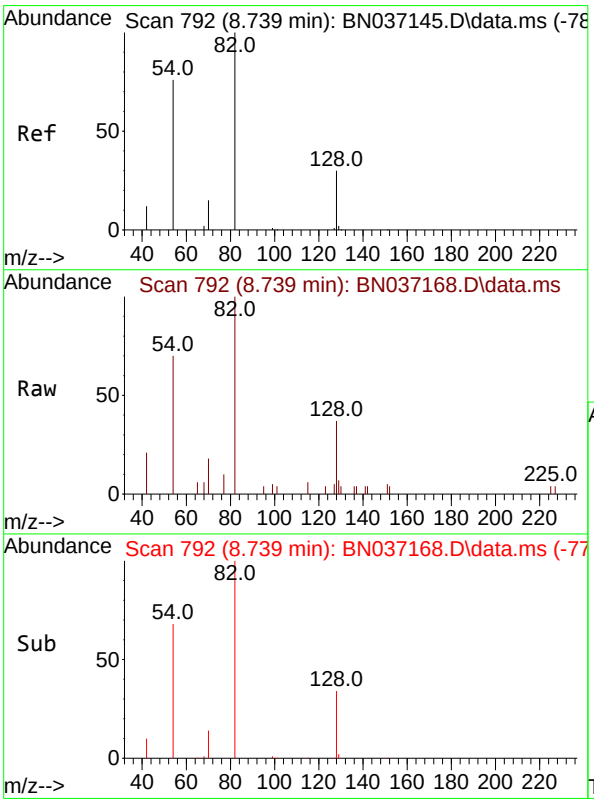
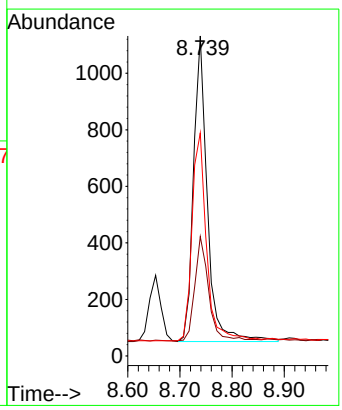
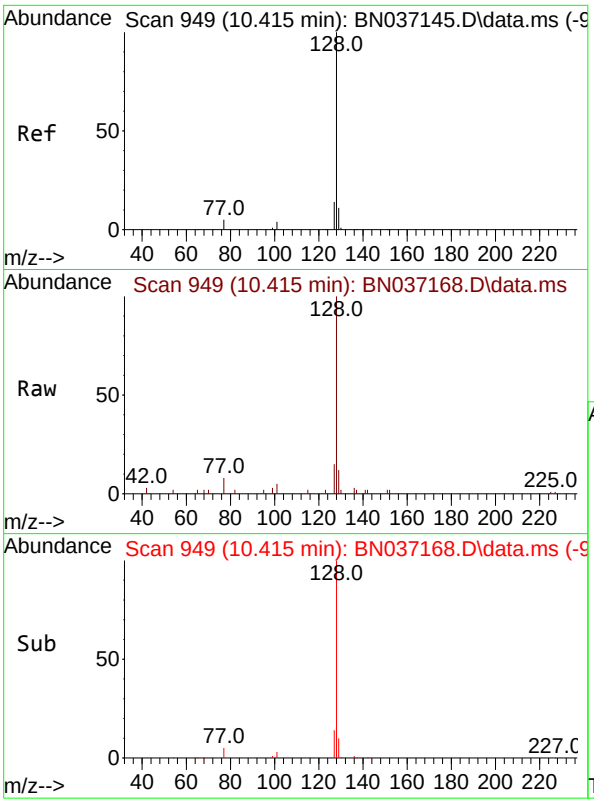


#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion: 82 Resp: 1999

Ion	Ratio	Lower	Upper
82	100		
128	37.3	26.9	40.3
54	69.7	61.4	92.2

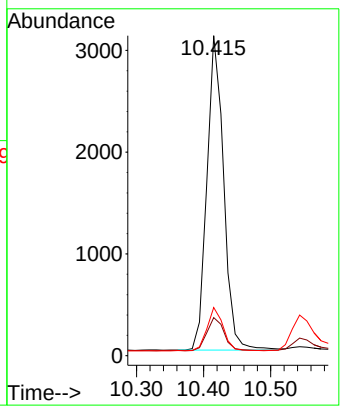




#9
Naphthalene
Concen: 0.353 ng
RT: 10.415 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:128 Resp: 537

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.8
127	15.0	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
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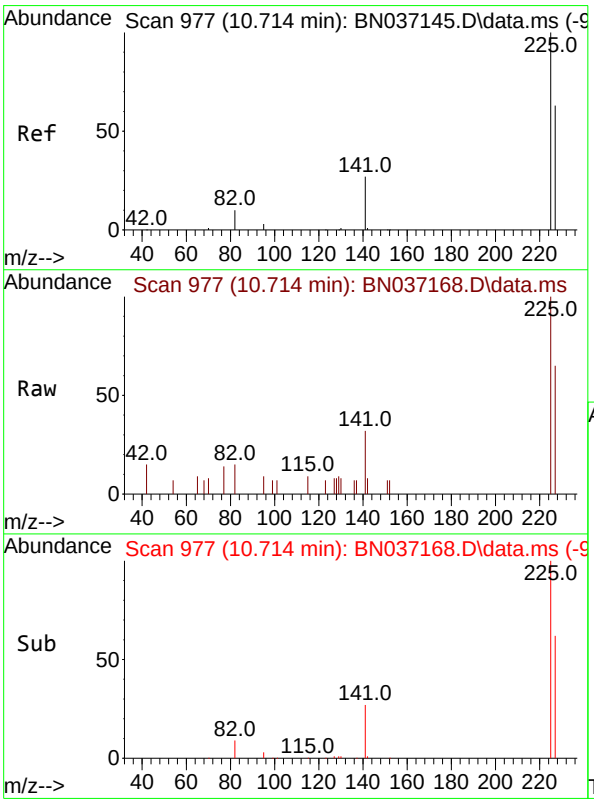
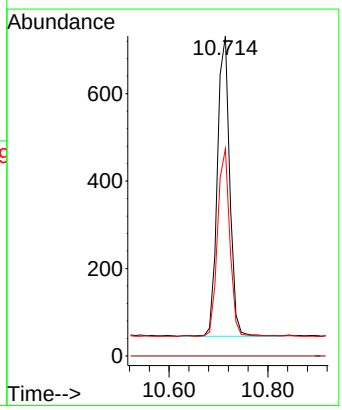
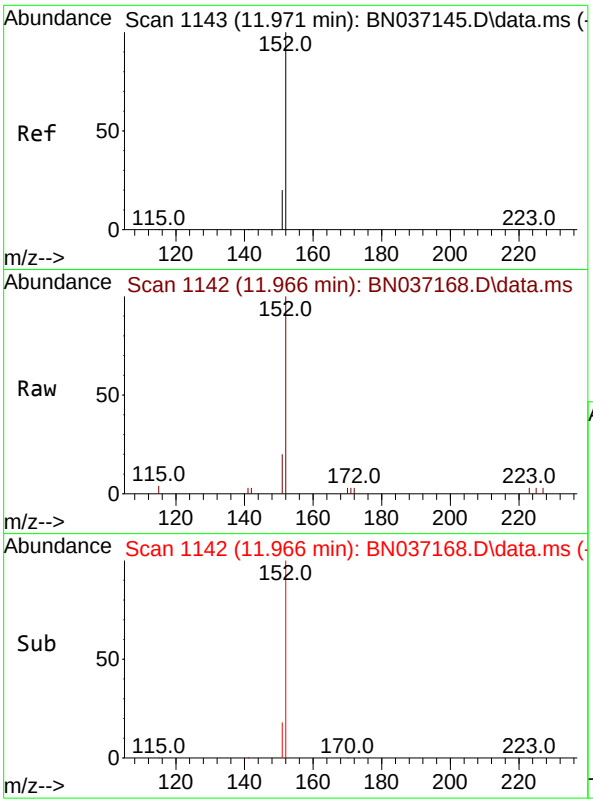


#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:225 Resp: 1191

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.0	50.3	75.5

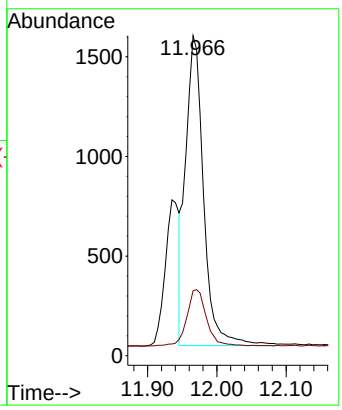




#11
2-Methylnaphthalene-d10
Concen: 0.383 ng m
RT: 11.966 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:152 Resp: 281

Ion	Ratio	Lower	Upper
152	100		
151	20.1	17.1	25.7



Instrument :
BNA_N
ClientSampleId :
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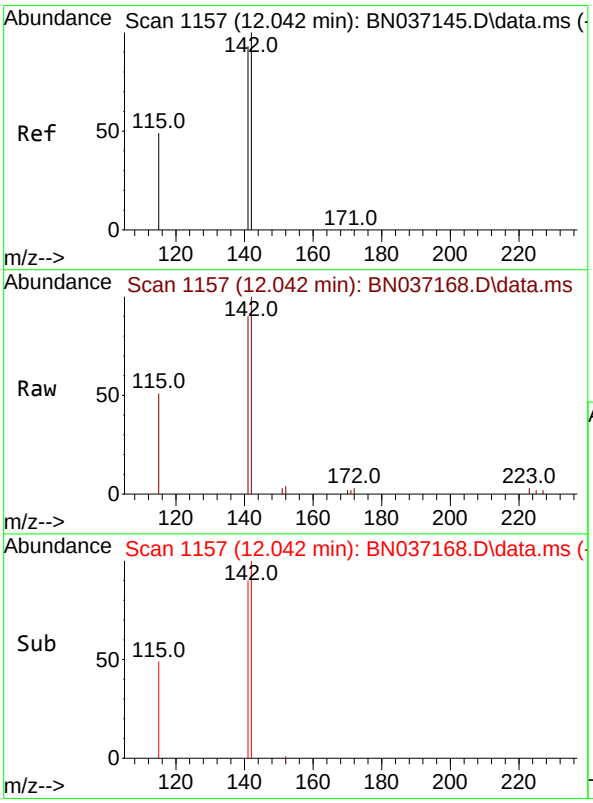
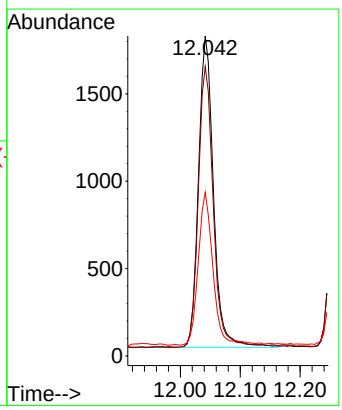
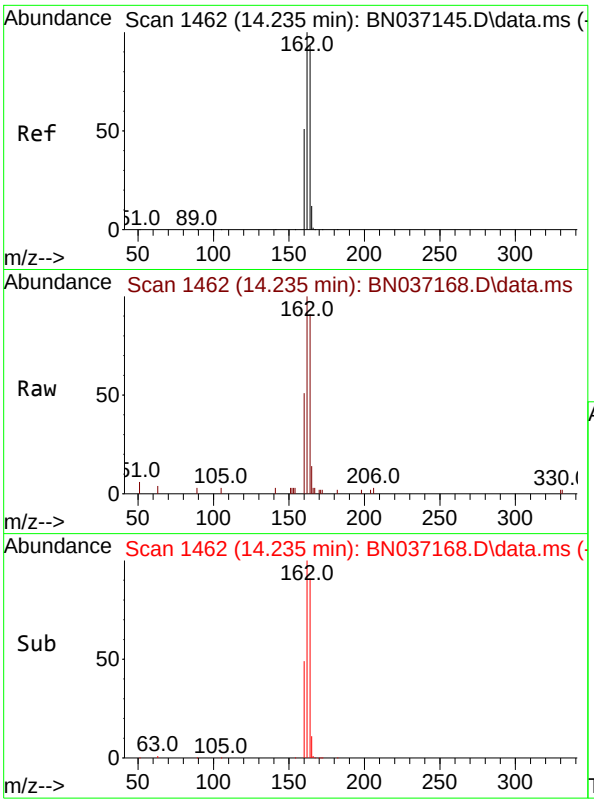


#12
2-Methylnaphthalene
Concen: 0.317 ng
RT: 12.042 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:142 Resp: 3098

Ion	Ratio	Lower	Upper
142	100		
141	90.4	74.6	111.8
115	51.2	41.0	61.4

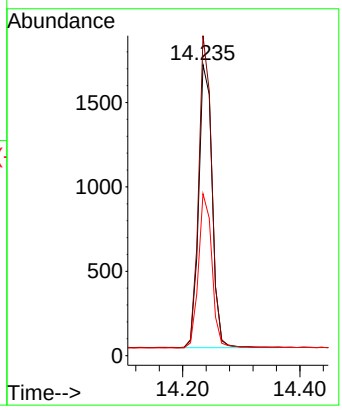




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:164 Resp: 270

Ion	Ratio	Lower	Upper
164	100		
162	110.0	85.5	128.3
160	55.6	44.6	67.0



Instrument :
BNA_N
ClientSampleId :
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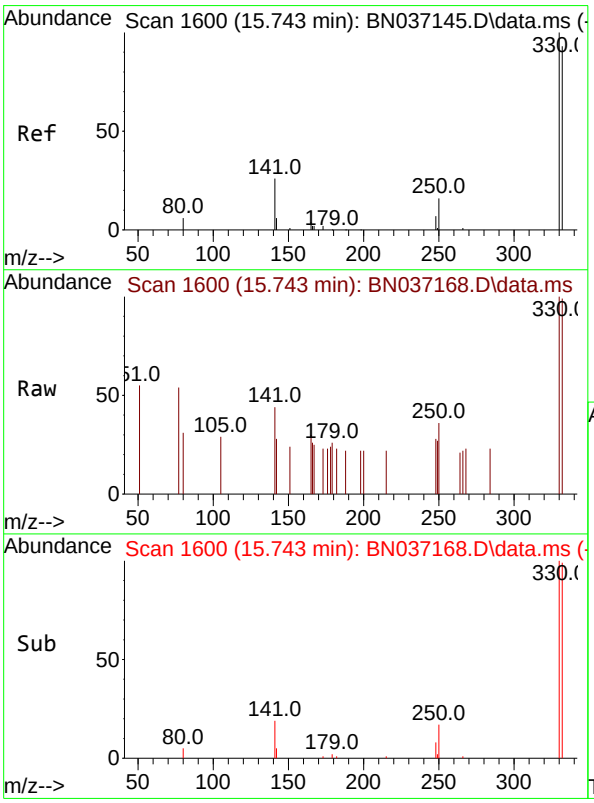
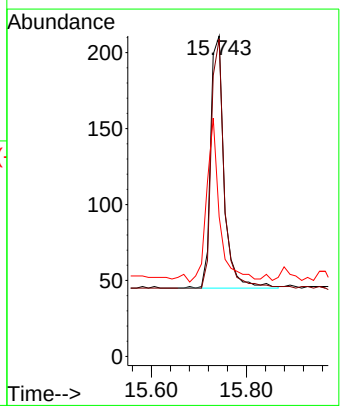
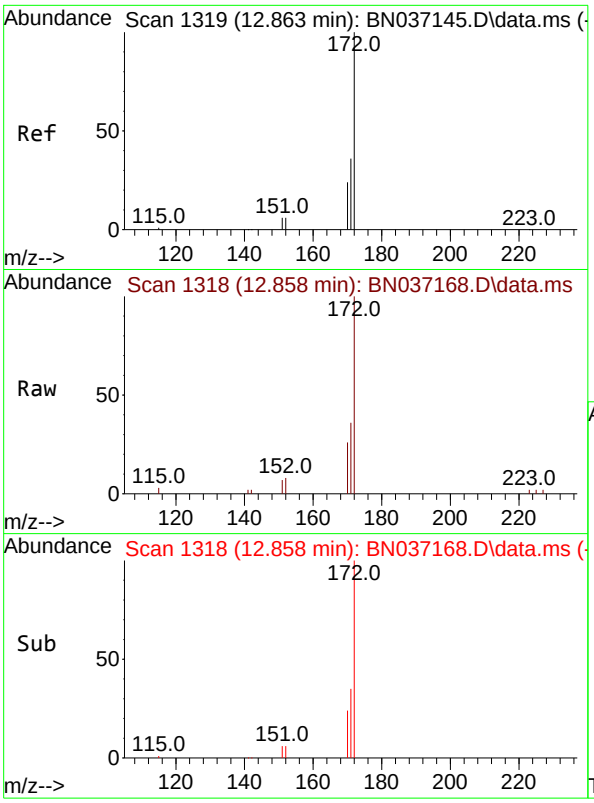


#14
2,4,6-Tribromophenol
Concen: 0.301 ng
RT: 15.743 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:330 Resp: 327

Ion	Ratio	Lower	Upper
330	100		
332	94.5	77.1	115.7
141	58.4	46.4	69.6

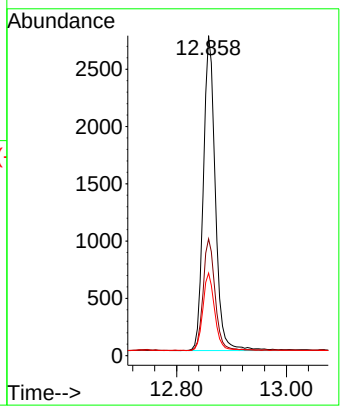




#15
2-Fluorobiphenyl
Concen: 0.360 ng
RT: 12.858 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:172 Resp: 414

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.6	44.4
170	25.8	20.3	30.5



Instrument :
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ClientSampleId :
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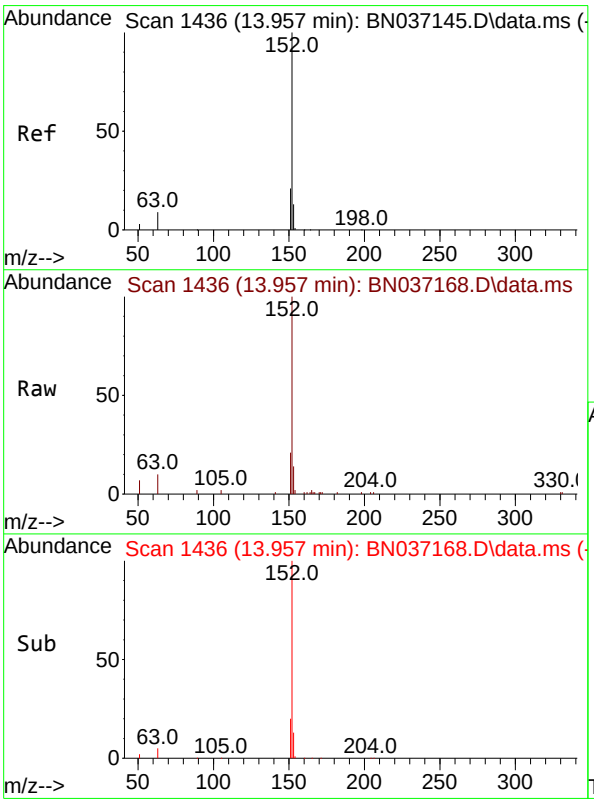
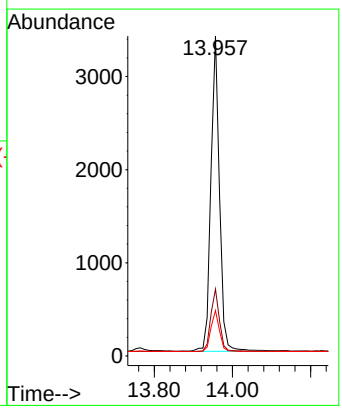
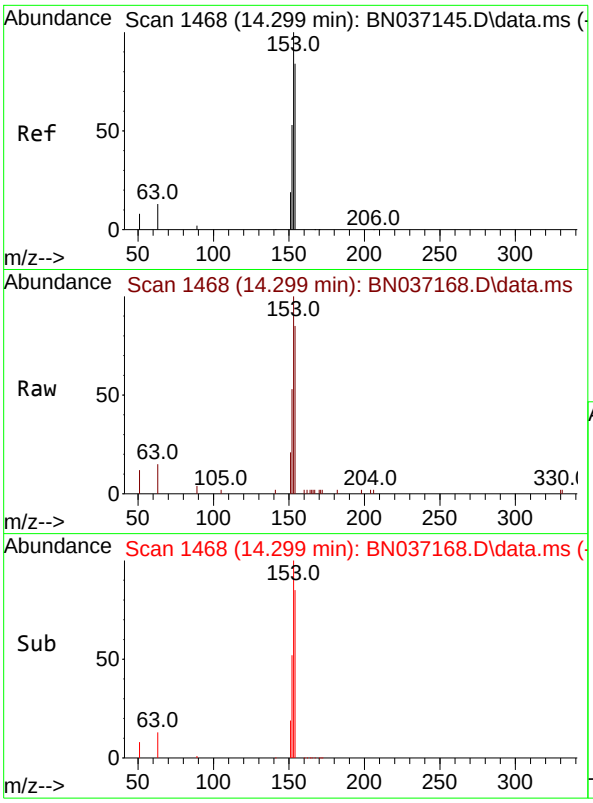


#16
Acenaphthylene
Concen: 0.392 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:152 Resp: 5187

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.3	24.5
153	12.9	10.6	15.8

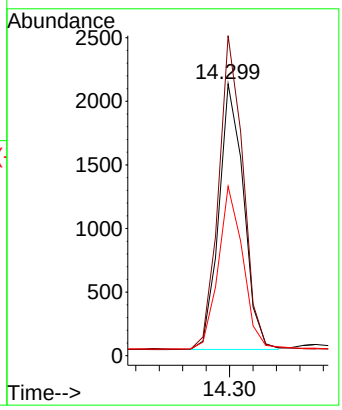




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.299 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:154 Resp: 306

Ion	Ratio	Lower	Upper
154	100		
153	117.9	93.8	140.8
152	61.3	50.5	75.7



Instrument :
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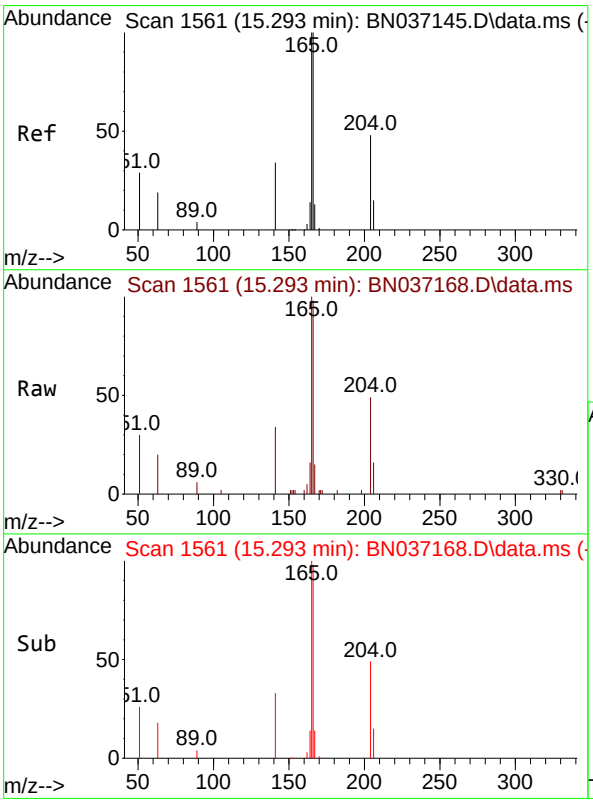
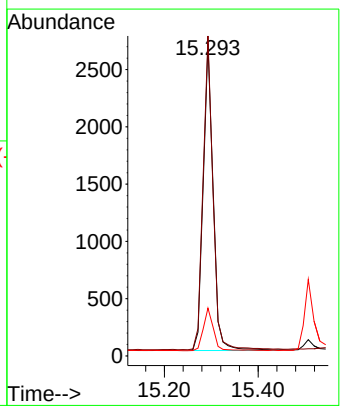
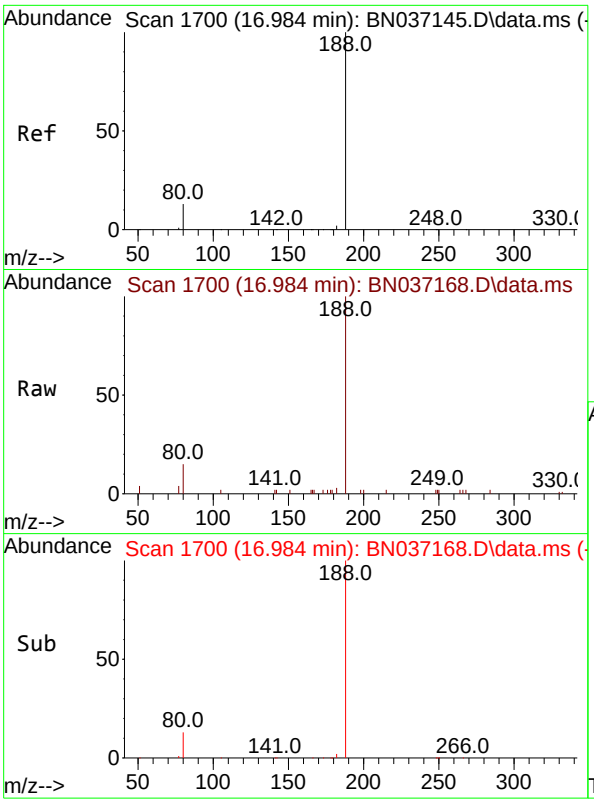


#18
Fluorene
Concen: 0.350 ng
RT: 15.293 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:166 Resp: 3960

Ion	Ratio	Lower	Upper
166	100		
165	101.1	81.1	121.7
167	14.2	10.8	16.2

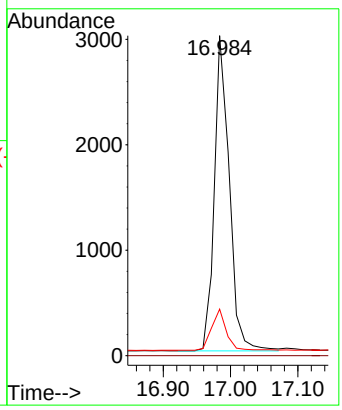




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:188 Resp: 460

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	11.3	16.9



Instrument :
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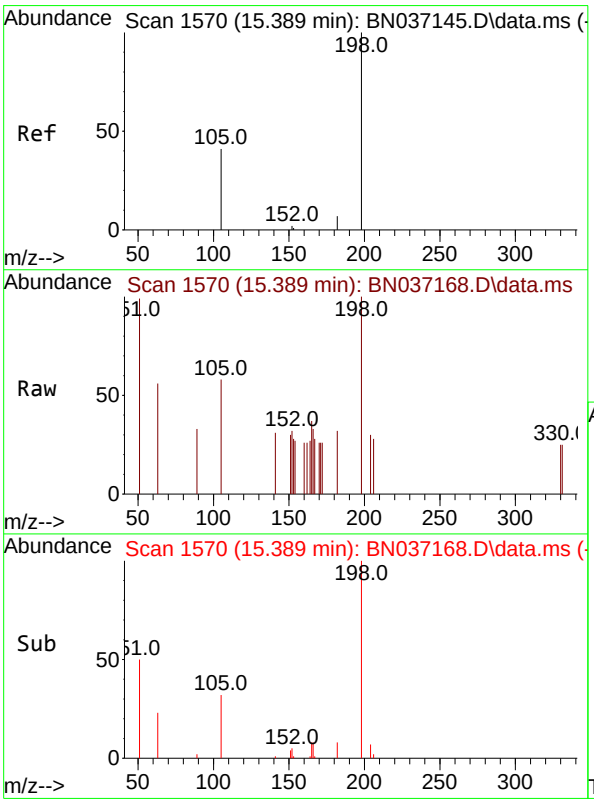
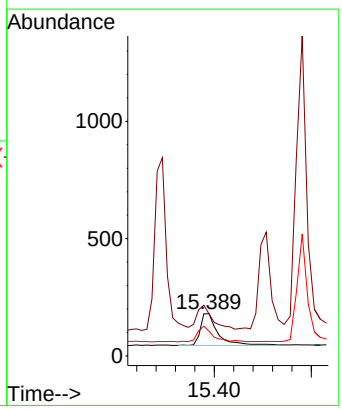
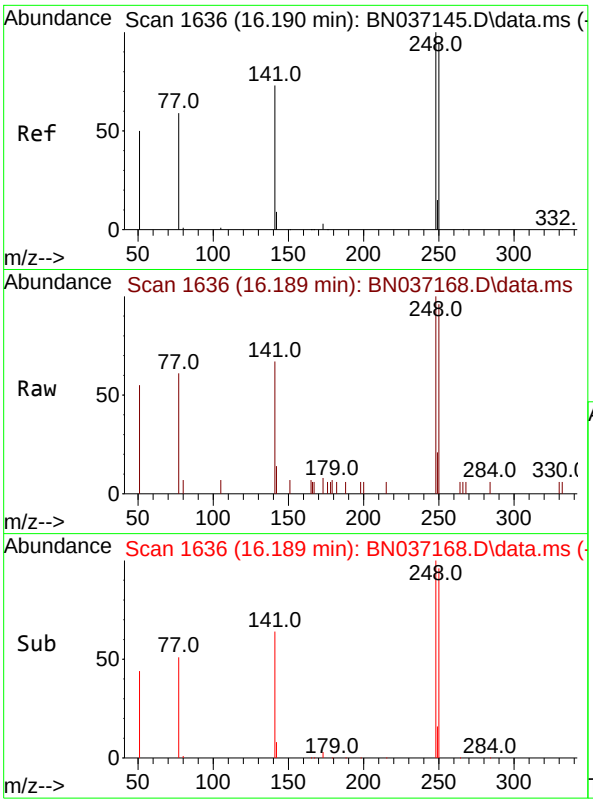


#20
4,6-Dinitro-2-methylphenol
Concen: 0.529 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:198 Resp: 344

Ion	Ratio	Lower	Upper
198	100		
51	99.4	125.2	187.8#
105	58.3	57.1	85.7





#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:248 Resp: 110(

Ion	Ratio	Lower	Upper
248	100		
250	96.4	76.1	114.1
141	67.2	60.1	90.1

Instrument :
BNA_N
ClientSampleId :
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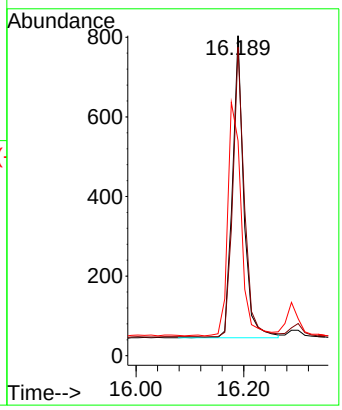
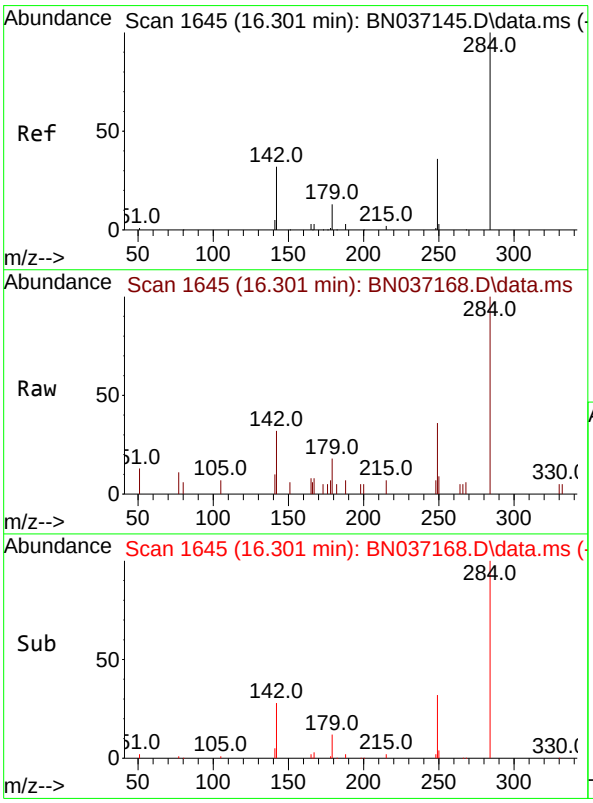
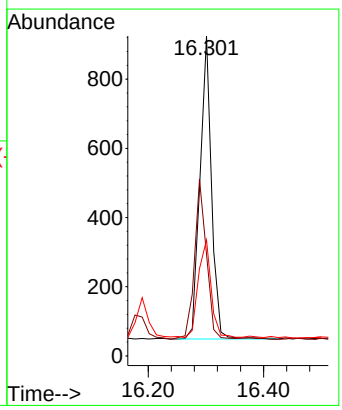


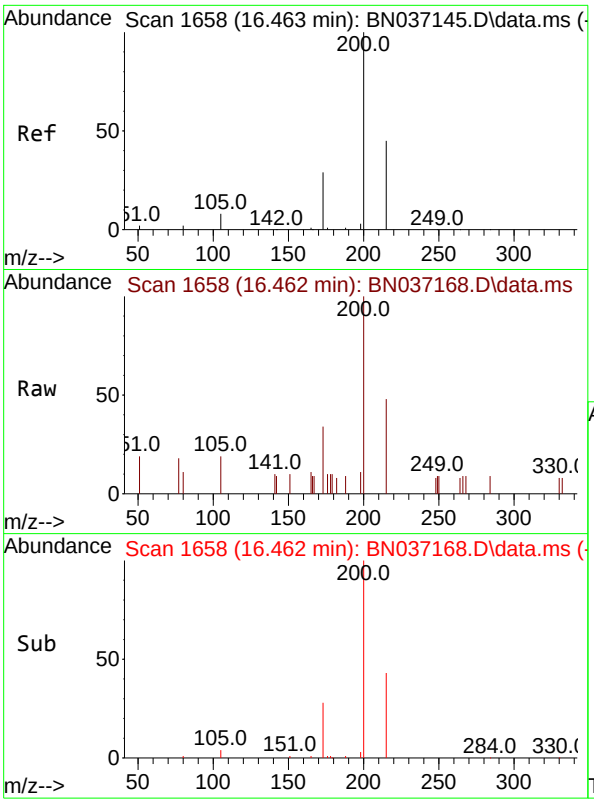


#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.301 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:284 Resp: 1218

Ion	Ratio	Lower	Upper
284	100		
142	54.6	44.0	66.0
249	35.7	29.7	44.5

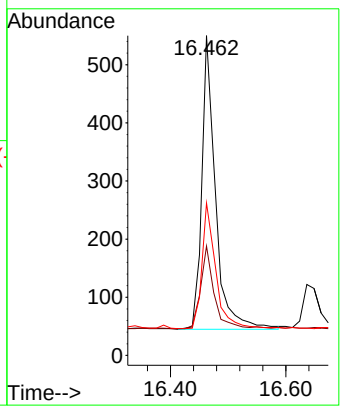




#23
Atrazine
Concen: 0.333 ng
RT: 16.462 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:200 Resp: 83

Ion	Ratio	Lower	Upper
200	100		
173	34.2	28.1	42.1
215	47.6	39.3	58.9



Instrument :
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ClientSampleId :
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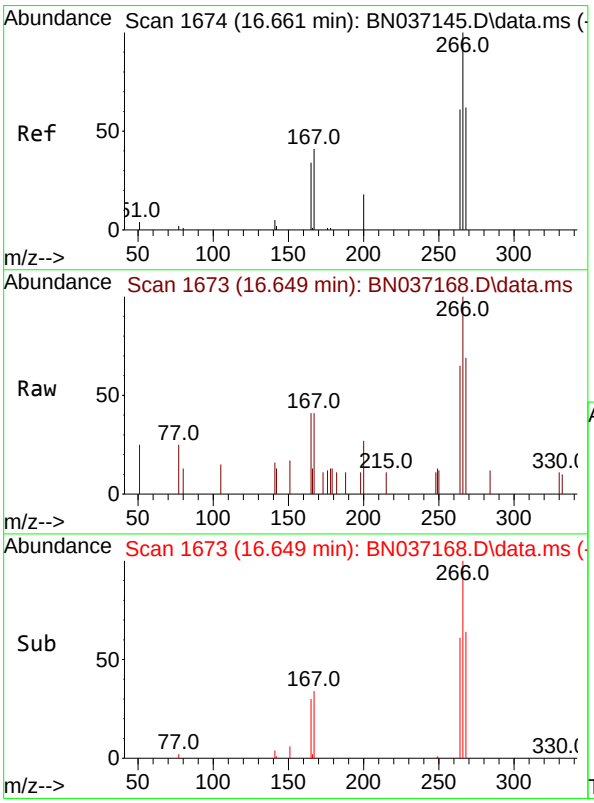
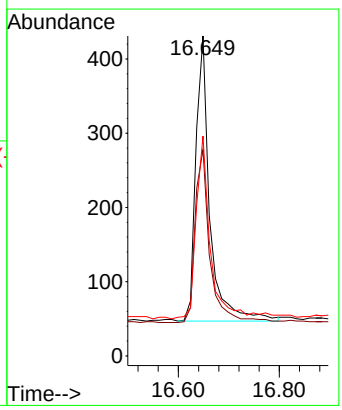
Supervised By :Jagrut Upadhyay 06/05/2025

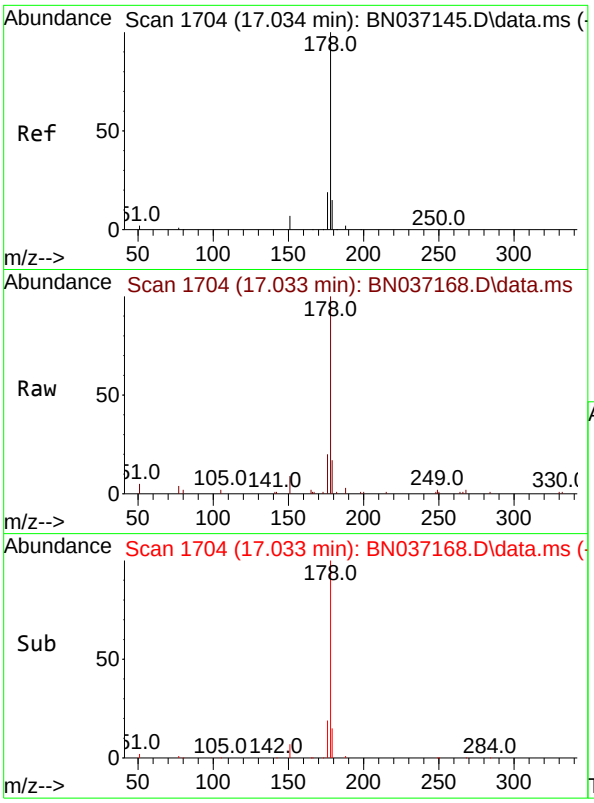


#24
Pentachlorophenol
Concen: 0.594 ng
RT: 16.649 min Scan# 1673
Delta R.T. -0.012 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:266 Resp: 740

Ion	Ratio	Lower	Upper
266	100		
264	63.8	49.3	73.9
268	66.6	49.0	73.4

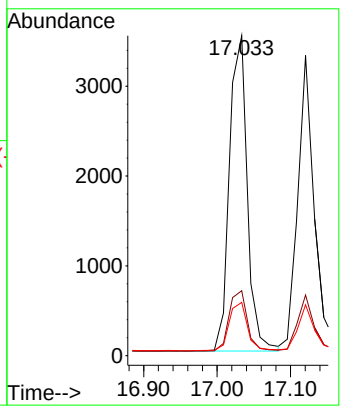




#25
Phenanthrene
Concen: 0.398 ng
RT: 17.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:178 Resp: 593

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
PB168238BS

Manual Integrations
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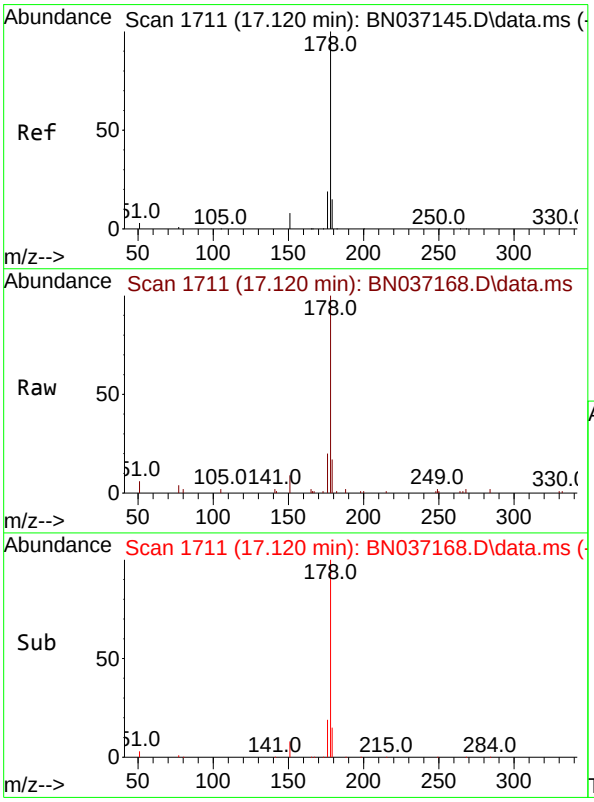
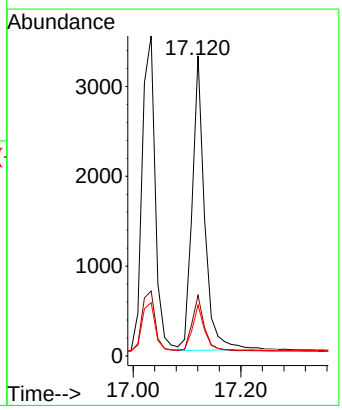
Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

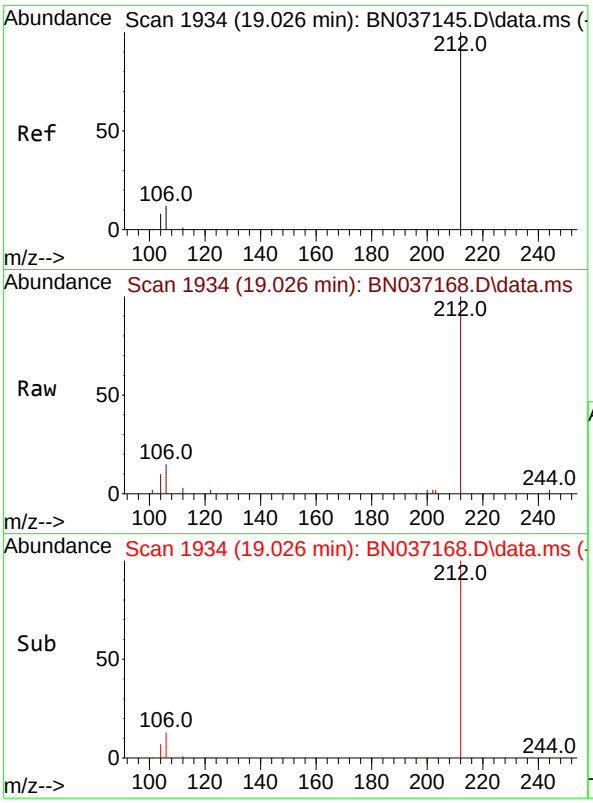


#26
Anthracene
Concen: 0.388 ng
RT: 17.120 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:178 Resp: 5280

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.2	12.9	19.3

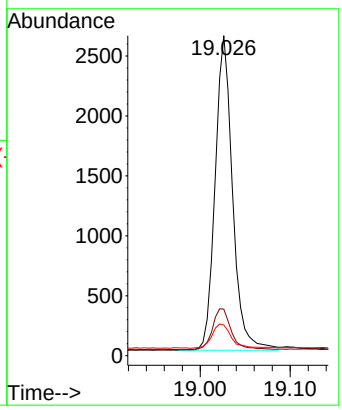




#27
Fluoranthene-d10
Concen: 0.301 ng
RT: 19.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:212 Resp: 352

Ion	Ratio	Lower	Upper
212	100		
106	14.0	10.6	15.8
104	8.5	6.6	9.8



Instrument :
BNA_N
ClientSampleId :
PB168238BS

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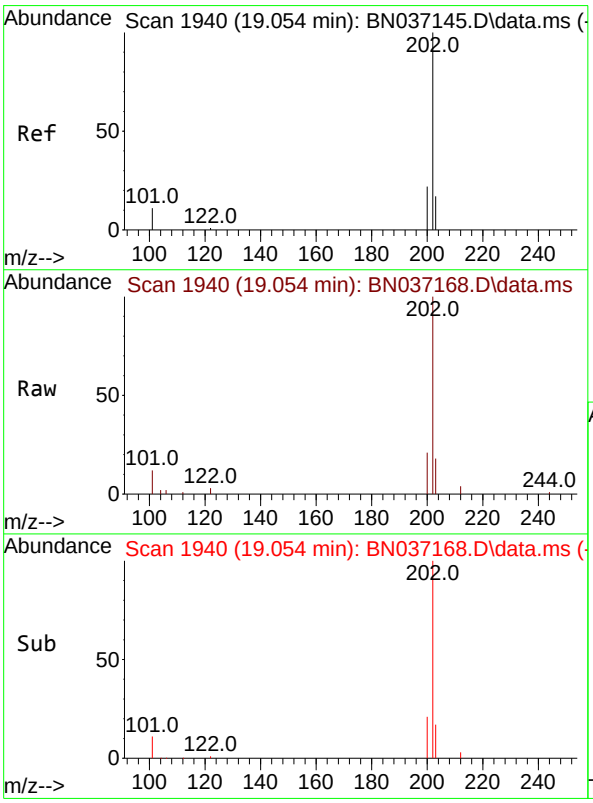
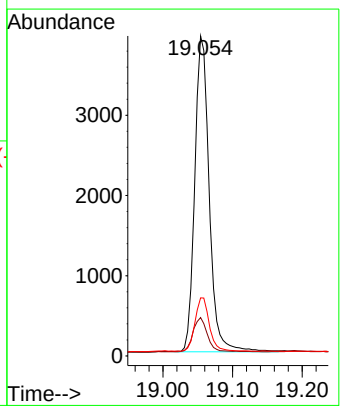
Supervised By :Jagrut Upadhyay 06/05/2025

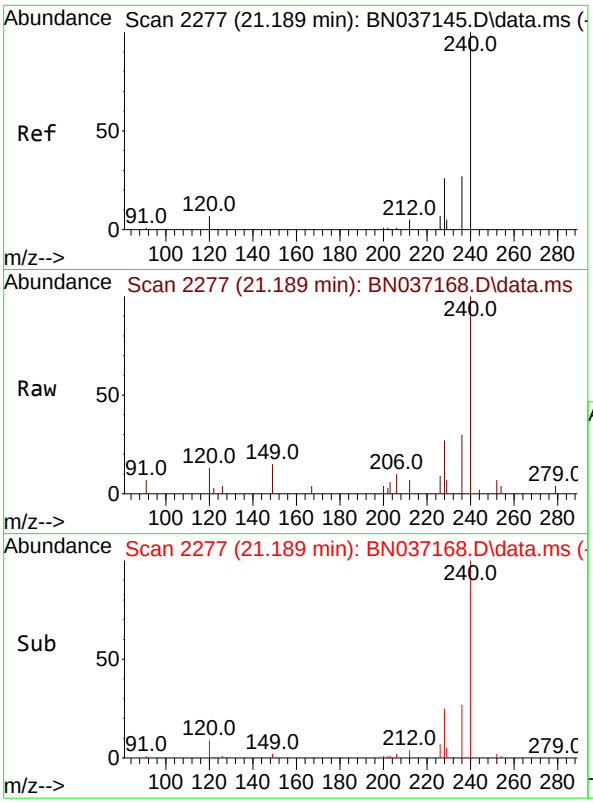


#28
Fluoranthene
Concen: 0.345 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:202 Resp: 5692

Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.7	13.1
203	16.6	13.5	20.3

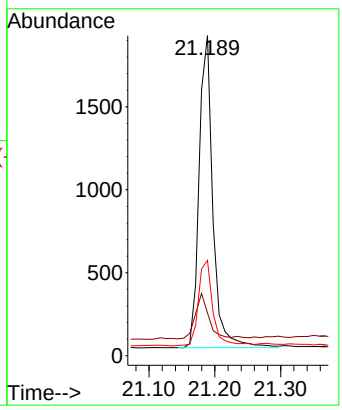




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:240 Resp: 274

Ion	Ratio	Lower	Upper
240	100		
120	13.3	9.0	13.4
236	29.8	23.0	34.4



Instrument :
BNA_N
ClientSampleId :
PB168238BS

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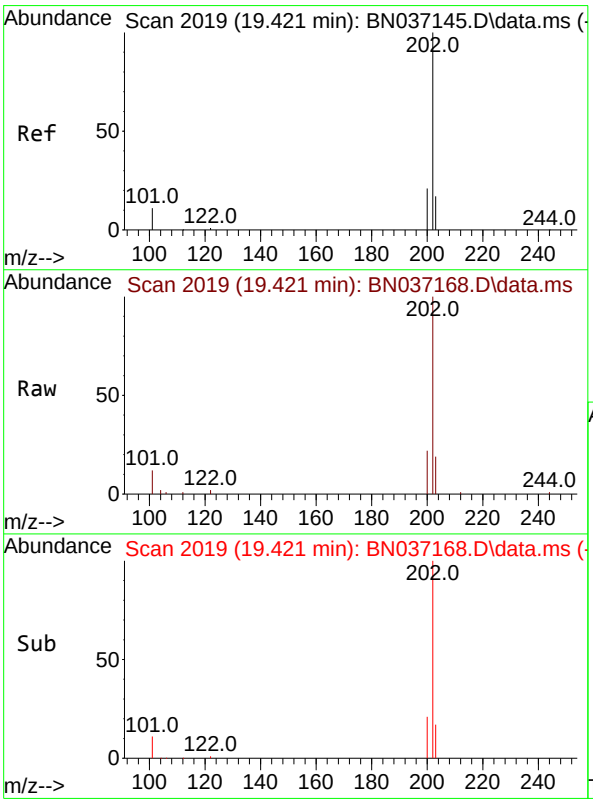
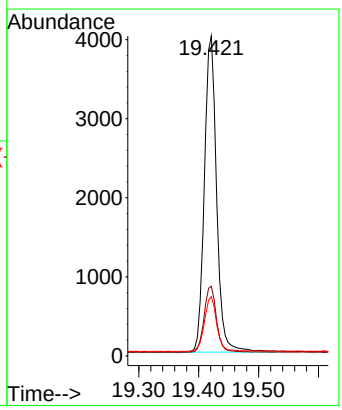
Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

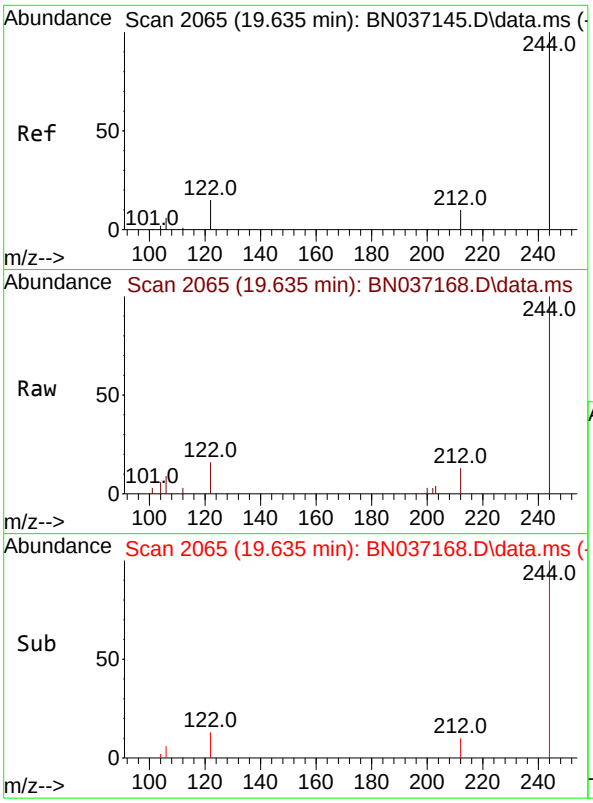


#30
Pyrene
Concen: 0.422 ng
RT: 19.421 min Scan# 2019
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:202 Resp: 5655

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.6
203	17.4	14.2	21.4

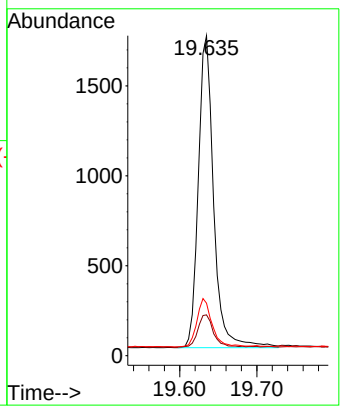




#31
Terphenyl-d14
Concen: 0.371 ng
RT: 19.635 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:244 Resp: 239(

Ion	Ratio	Lower	Upper
244	100		
212	12.8	10.0	15.0
122	16.4	13.2	19.8



Instrument :
BNA_N
ClientSampleId :
PB168238BS

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Reviewed By :Rahul Chavli 06/04/2025
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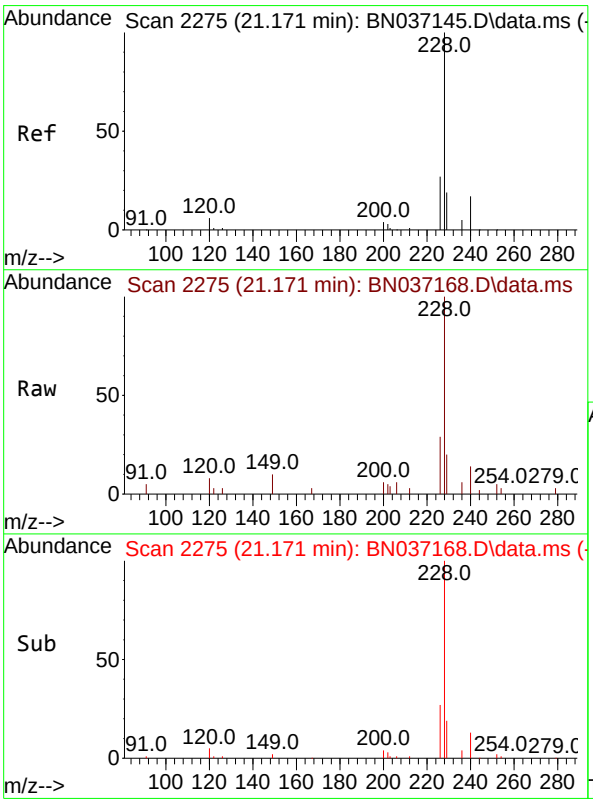
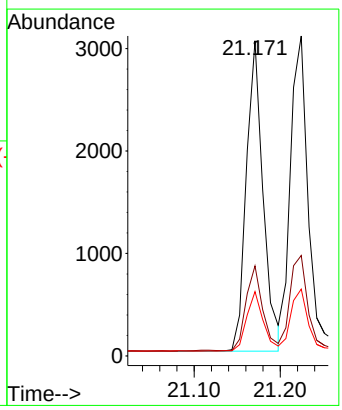
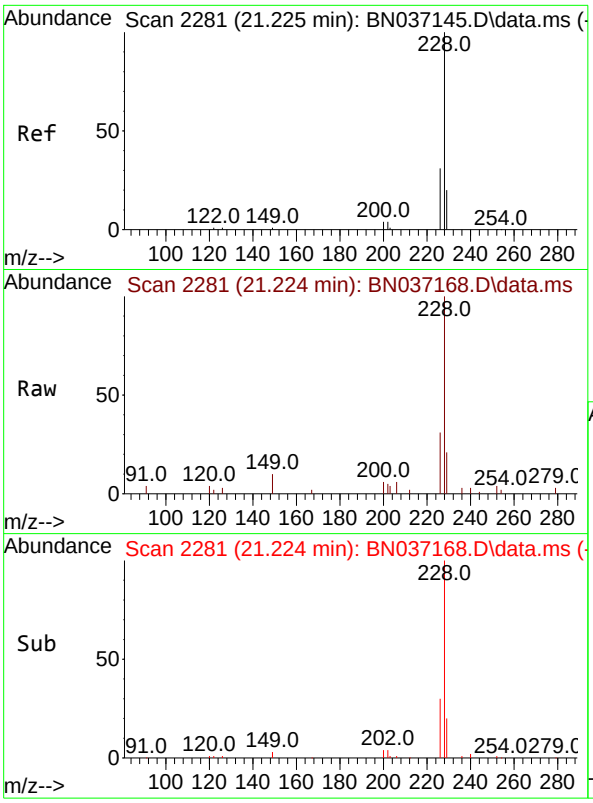


#32
Benzo(a)anthracene
Concen: 0.415 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:228 Resp: 4122

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.6	33.8
229	20.4	16.2	24.2

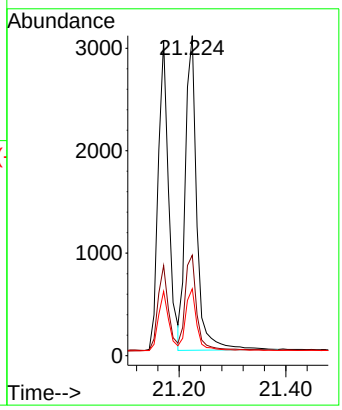




#33
Chrysene
Concen: 0.412 ng
RT: 21.224 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:228 Resp: 455

Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.2	37.8
229	20.9	16.8	25.2



Instrument :
BNA_N
ClientSampleId :
PB168238BS

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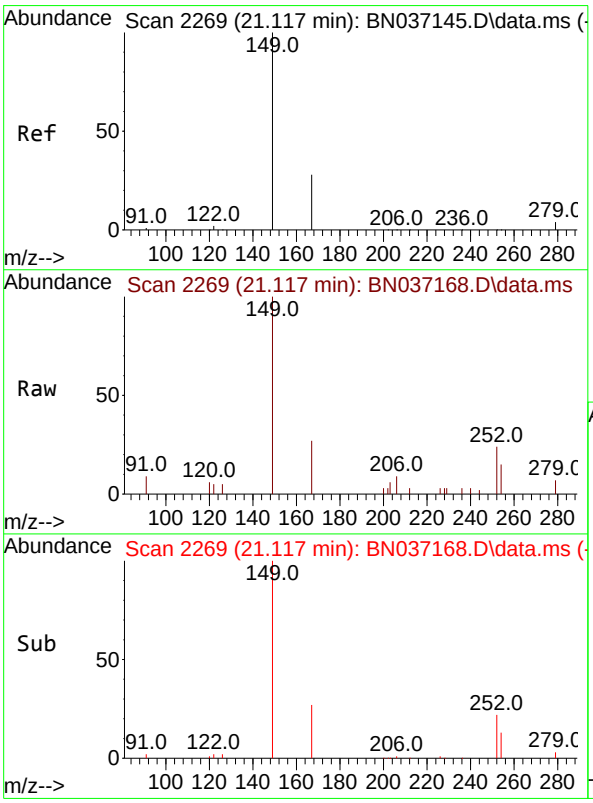
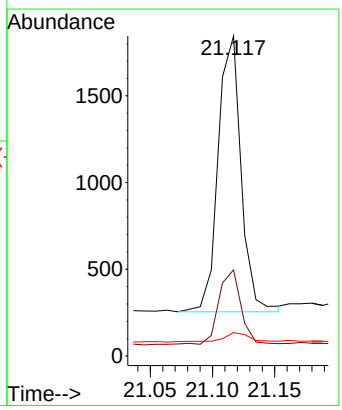
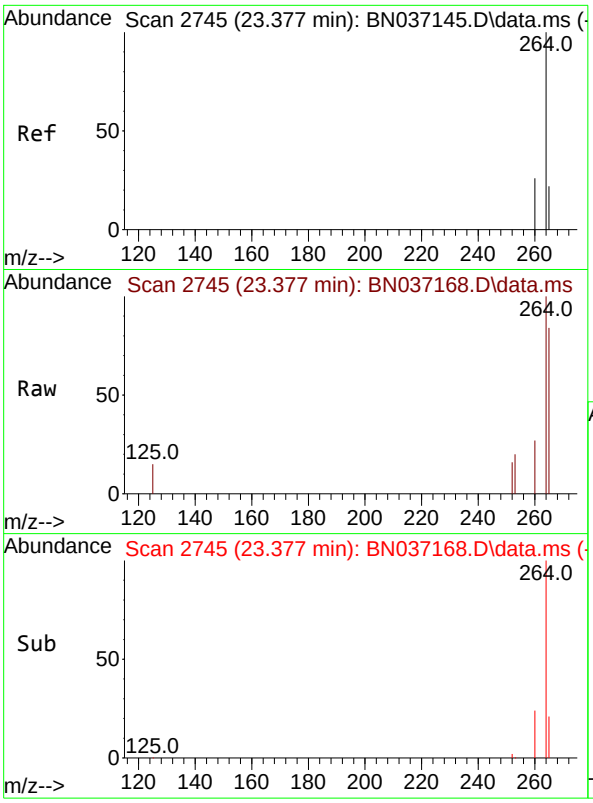


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.326 ng
RT: 21.117 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:149 Resp: 2043

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.0	31.4
279	3.9	2.9	4.3





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.377 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:264 Resp: 258

Ion	Ratio	Lower	Upper
264	100		
260	27.0	22.1	33.1
265	83.6	55.8	83.8

Instrument :
BNA_N
ClientSampleId :
PB168238BS

Manual Integrations
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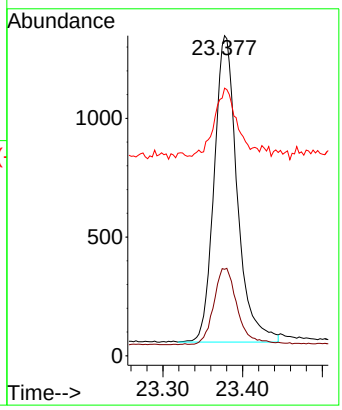
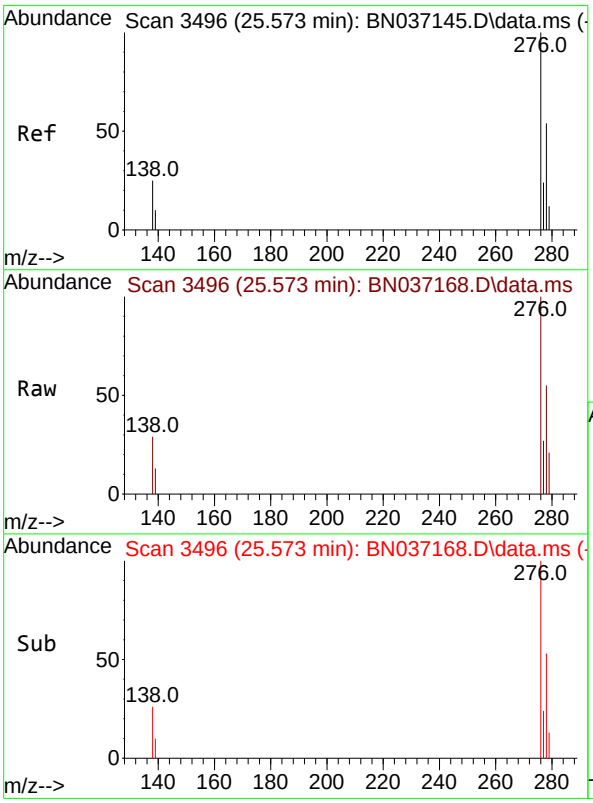
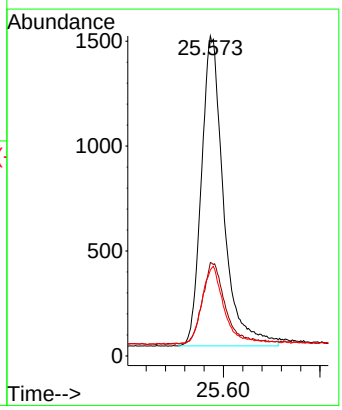


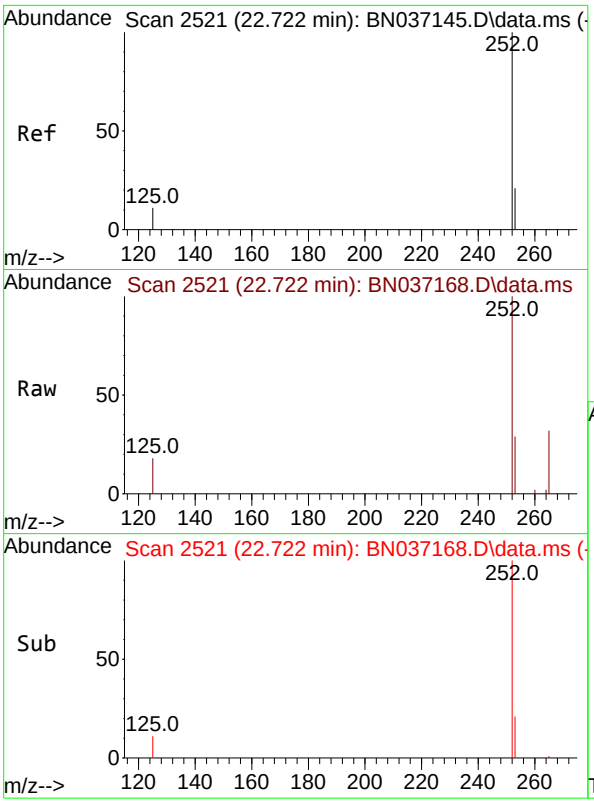


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.459 ng
RT: 25.573 min Scan# 3496
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:276 Resp: 4721

Ion	Ratio	Lower	Upper
276	100		
138	26.3	21.0	31.6
277	24.6	19.4	29.2

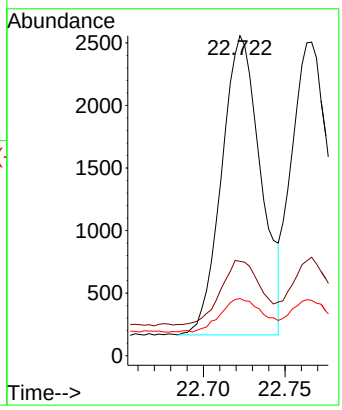




#37
Benzo(b)fluoranthene
Concen: 0.382 ng
RT: 22.722 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:252 Resp: 398

Ion	Ratio	Lower	Upper
252	100		
253	29.5	22.3	33.5
125	17.9	13.2	19.8



Instrument :
BNA_N
ClientSampleId :
PB168238BS

Manual Integrations
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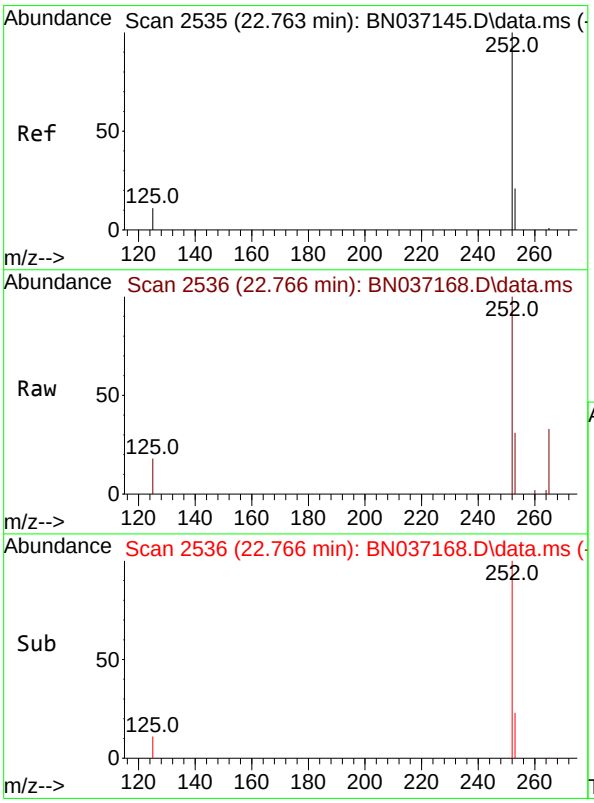
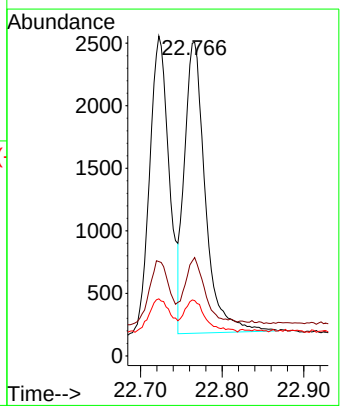
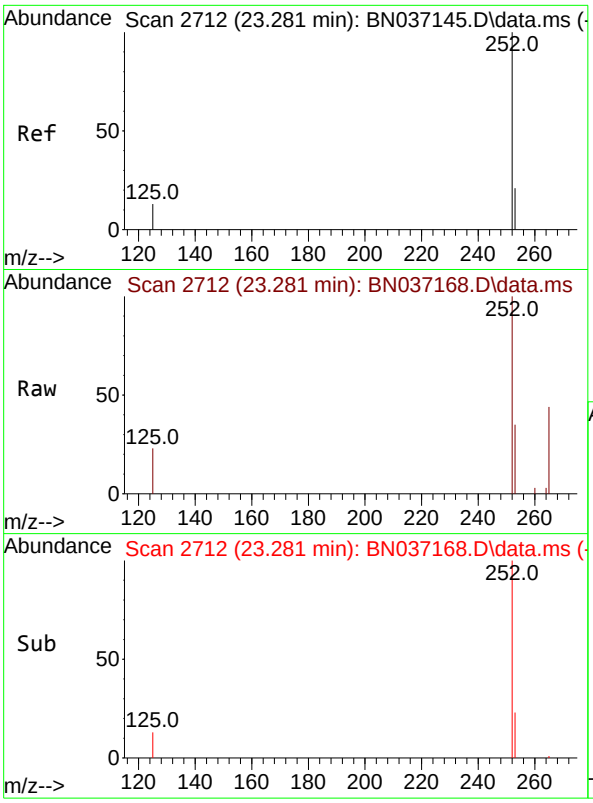


#38
Benzo(k)fluoranthene
Concen: 0.386 ng
RT: 22.766 min Scan# 2536
Delta R.T. 0.003 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:252 Resp: 4119

Ion	Ratio	Lower	Upper
252	100		
253	31.4	22.2	33.4
125	17.7	13.2	19.8

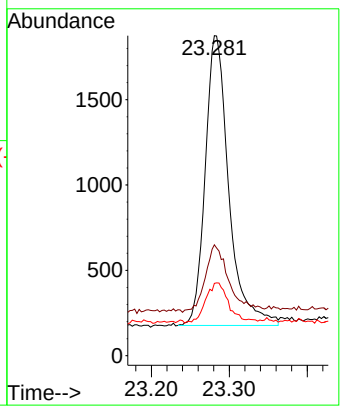




#39
Benzo(a)pyrene
Concen: 0.408 ng
RT: 23.281 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:252 Resp: 357

Ion	Ratio	Lower	Upper
252	100		
253	34.7	25.0	37.4
125	22.6	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
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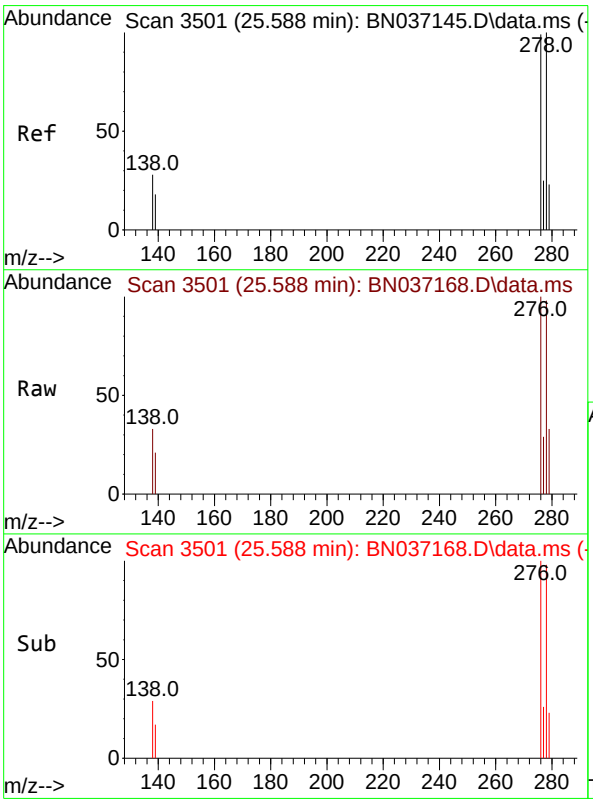
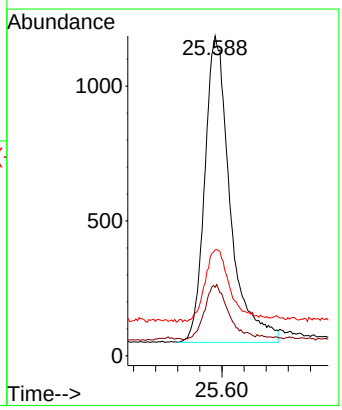
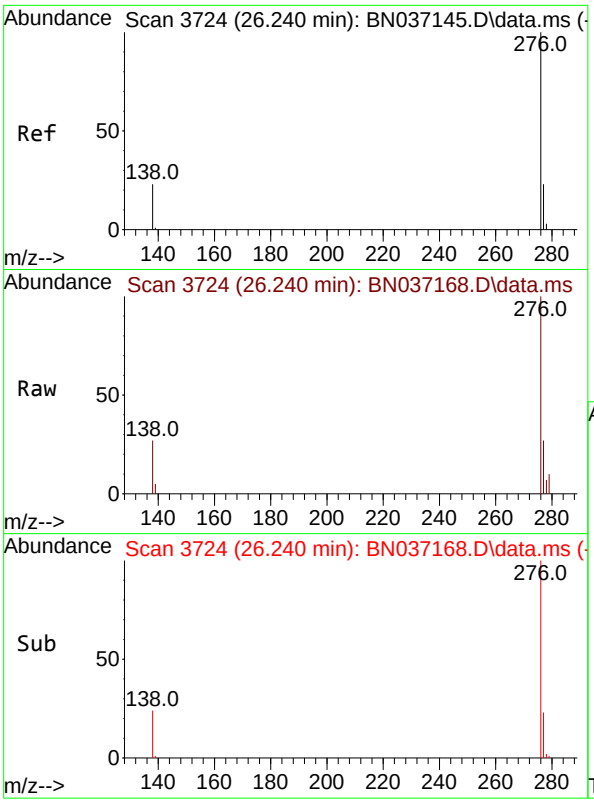


#40
Dibenzo(a,h)anthracene
Concen: 0.456 ng
RT: 25.588 min Scan# 3501
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:278 Resp: 3621

Ion	Ratio	Lower	Upper
278	100		
139	21.4	17.6	26.4
279	33.1	26.0	39.0

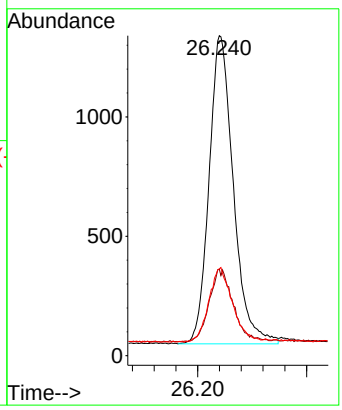




#41
Benzo(g,h,i)perylene
Concen: 0.438 ng
RT: 26.240 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN037168.D
Acq: 04 Jun 2025 12:27

Tgt Ion:276 Resp: 399

Ion	Ratio	Lower	Upper
276	100		
277	27.0	20.9	31.3
138	27.2	20.8	31.2



Instrument :
BNA_N
ClientSampleId :
PB168238BS

Manual Integrations
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Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

Raw Data: **BN037169.D**

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB168238BSD	SDG No.:	Q2181
Lab Sample ID:	PB168238BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
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
BN037169.D	1	06/02/25 08:55	06/04/25 13:03	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.39		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.38		20 - 139	96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		54 - 157	74%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		27 - 154	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		30 - 155	91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		54 - 175	90%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2150	7.59			
1146-65-2	Naphthalene-d8	5350	10.372			
15067-26-2	Acenaphthene-d10	2660	14.235			
1517-22-2	Phenanthrene-d10	4420	16.984			
1719-03-5	Chrysene-d12	2670	21.189			
1520-96-3	Perylene-d12	2550	23.377			

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\BN060425\
Data File : BN037169.D
Acq On : 04 Jun 2025 13:03
Operator : RC/JU
Sample : PB168238BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 13:26:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168238BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.590	152	2147	0.400	ng		0.00
7) Naphthalene-d8	10.372	136	5350	0.400	ng		0.00
13) Acenaphthene-d10	14.235	164	2661	0.400	ng		0.00
19) Phenanthrene-d10	16.984	188	4419	0.400	ng		0.00
29) Chrysene-d12	21.189	240	2674	0.400	ng		0.00
35) Perylene-d12	23.377	264	2551	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.192	112	1953	0.368	ng		0.00
5) Phenol-d6	6.766	99	2276	0.354	ng		0.00
8) Nitrobenzene-d5	8.739	82	2021	0.358	ng		0.00
11) 2-Methylnaphthalene-d10	11.966	152	2859m	0.384	ng		0.00
14) 2,4,6-Tribromophenol	15.743	330	314	0.293	ng		0.00
15) 2-Fluorobiphenyl	12.858	172	4148	0.366	ng		0.00
27) Fluoranthene-d10	19.026	212	3333	0.297	ng		0.00
31) Terphenyl-d14	19.630	244	2256	0.358	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.119	88	1228	0.429	ng	#	35
3) n-Nitrosodimethylamine	3.430	42	2089	0.364	ng	#	95
6) bis(2-Chloroethyl)ether	7.026	93	2073	0.338	ng		95
9) Naphthalene	10.415	128	5411	0.351	ng		99
10) Hexachlorobutadiene	10.714	225	1183	0.352	ng	#	98
12) 2-Methylnaphthalene	12.042	142	3054	0.309	ng		98
16) Acenaphthylene	13.957	152	5109	0.392	ng		100
17) Acenaphthene	14.299	154	3052	0.360	ng		99
18) Fluorene	15.293	166	3886	0.349	ng		98
20) 4,6-Dinitro-2-methylph...	15.379	198	328	0.528	ng	#	80
21) 4-Bromophenyl-phenylether	16.190	248	1063	0.367	ng		95
22) Hexachlorobenzene	16.301	284	1169	0.374	ng		99
23) Atrazine	16.463	200	763	0.319	ng		99
24) Pentachlorophenol	16.649	266	671	0.574	ng		96
25) Phenanthrene	17.021	178	5611	0.392	ng		100
26) Anthracene	17.120	178	4942	0.378	ng		99
28) Fluoranthene	19.054	202	5342	0.338	ng		99
30) Pyrene	19.416	202	5262	0.403	ng		100
32) Benzo(a)anthracene	21.171	228	3952	0.408	ng		100
33) Chrysene	21.216	228	4391	0.407	ng		98
34) Bis(2-ethylhexyl)phtha...	21.108	149	1898	0.311	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.573	276	4667	0.460	ng		100
37) Benzo(b)fluoranthene	22.722	252	3779	0.367	ng		95
38) Benzo(k)fluoranthene	22.763	252	4120	0.392	ng		96
39) Benzo(a)pyrene	23.284	252	3526	0.409	ng		95
40) Dibenzo(a,h)anthracene	25.591	278	3574	0.457	ng		98
41) Benzo(g,h,i)perylene	26.243	276	3931	0.437	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060425\
Data File : BN037169.D
Acq On : 04 Jun 2025 13:03
Operator : RC/JU
Sample : PB168238BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 13:26:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168238BSD

Manual Integrations APPROVED

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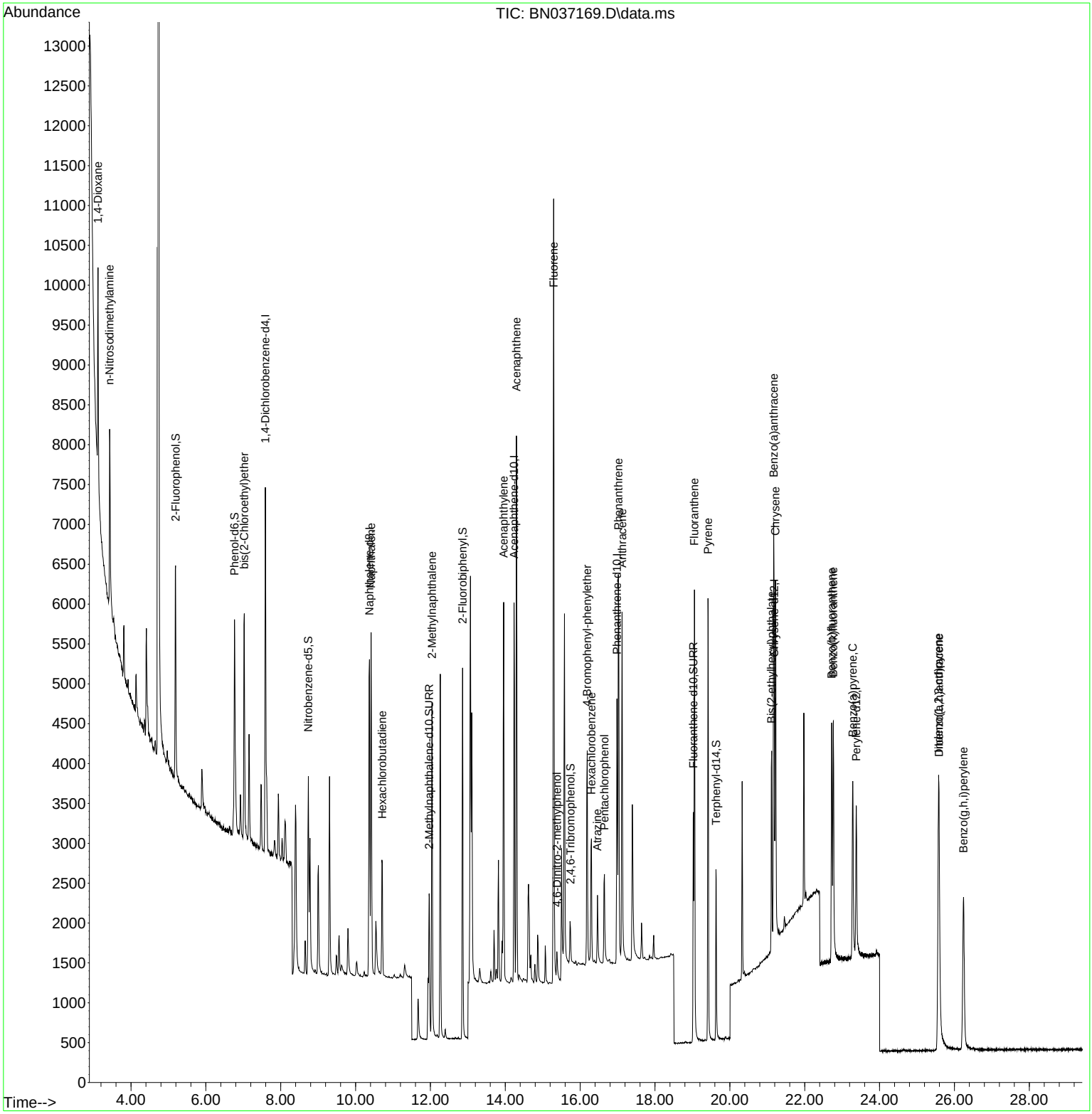
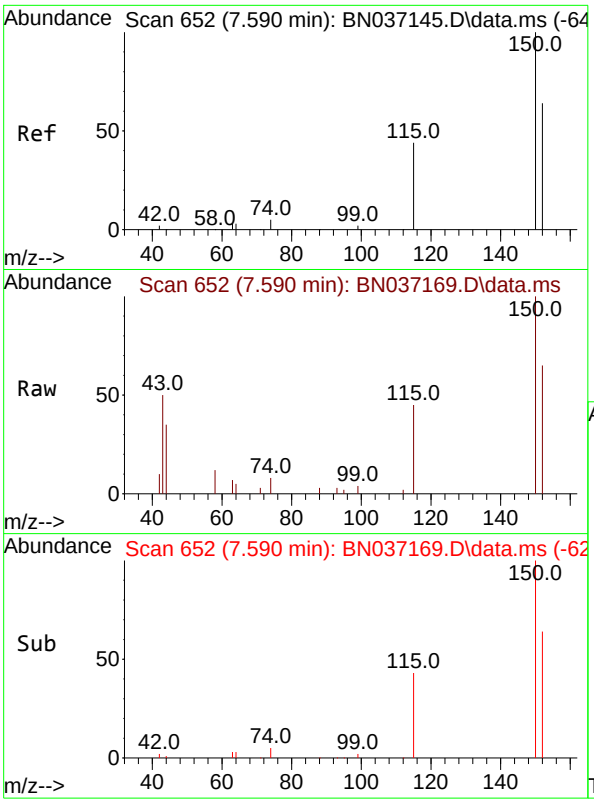
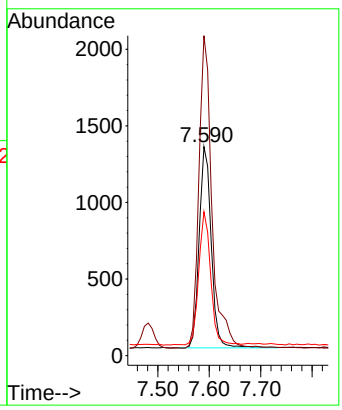




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.590 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:152 Resp: 214

Ion	Ratio	Lower	Upper
152	100		
150	153.2	123.2	184.8
115	68.8	56.6	85.0



Instrument :
BNA_N
ClientSampleId :
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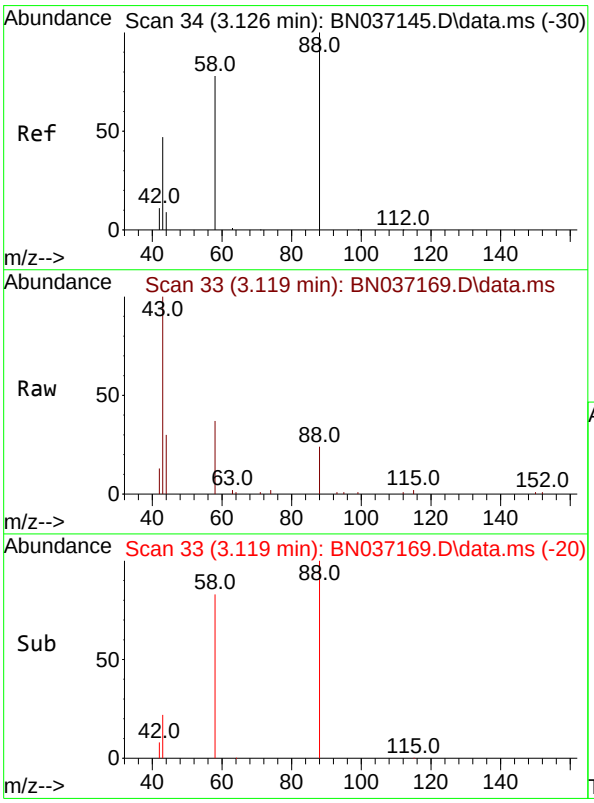
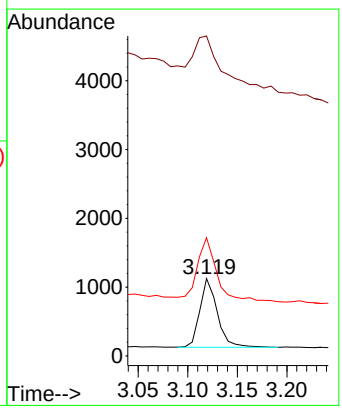
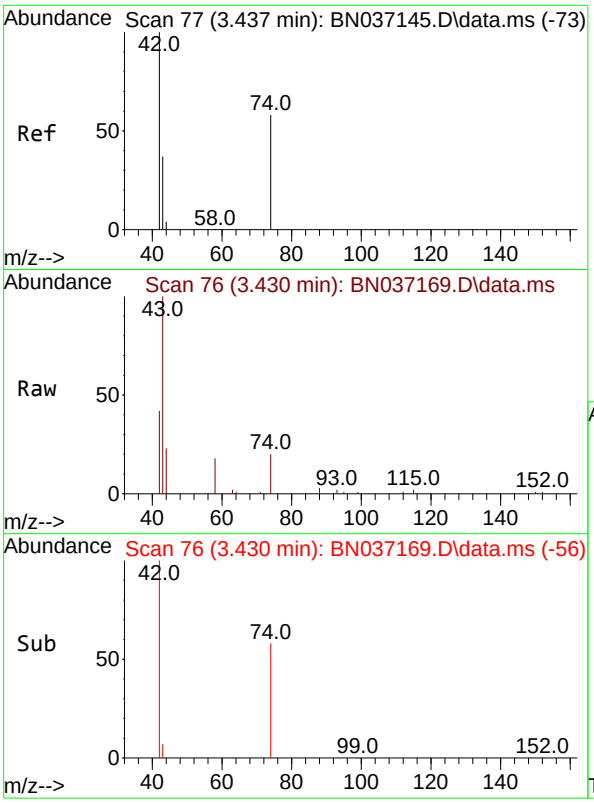


#2
1,4-Dioxane
Concen: 0.429 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion: 88 Resp: 1228

Ion	Ratio	Lower	Upper
88	100		
43	144.8	43.5	65.3#
58	107.8	67.7	101.5#





#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.430 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion: 42 Resp: 208

Ion	Ratio	Lower	Upper
42	100		
74	62.4	53.0	79.4
44	10.1	5.9	8.9

Instrument :
BNA_N
ClientSampleId :
PB168238BSD

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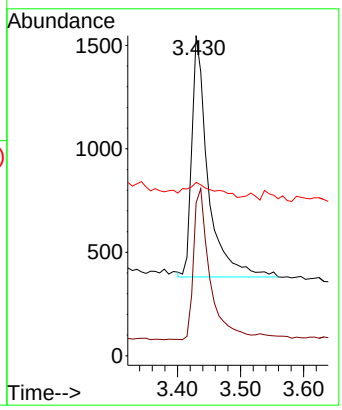
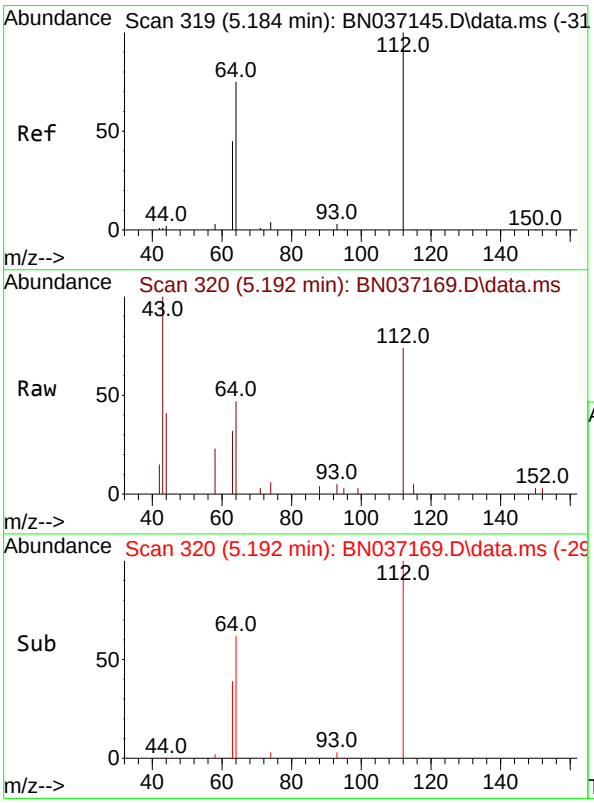
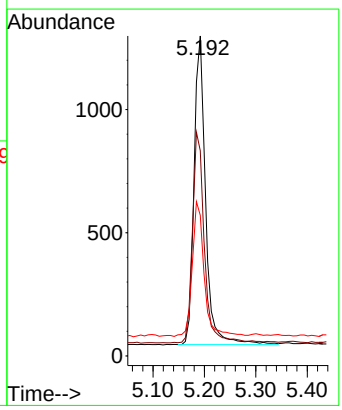


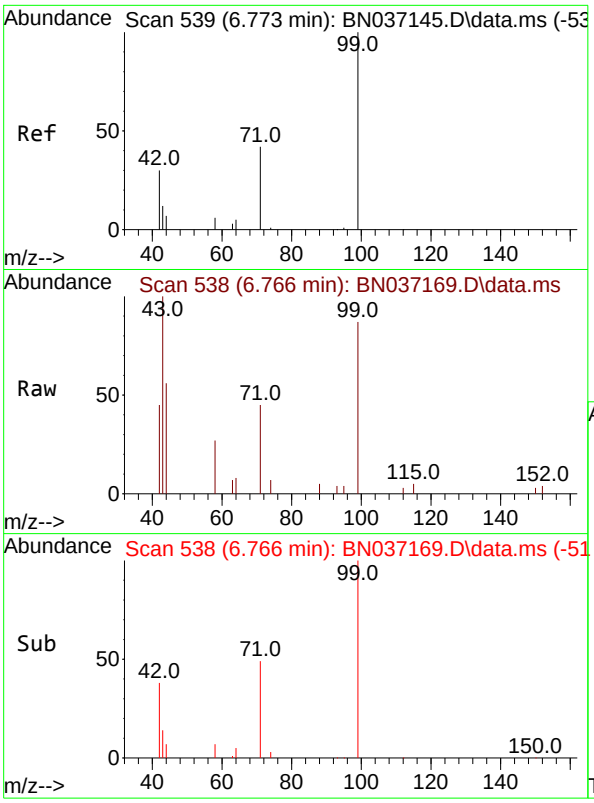


#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.192 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:112 Resp: 1953

Ion	Ratio	Lower	Upper
112	100		
64	69.6	56.3	84.5
63	45.1	36.2	54.4





#5
Phenol-d6
Concen: 0.354 ng
RT: 6.766 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion: 99 Resp: 227

Ion	Ratio	Lower	Upper
99	100		
42	39.8	31.3	46.9
71	45.8	38.2	57.2

Instrument :
BNA_N
ClientSampleId :
PB168238BSD

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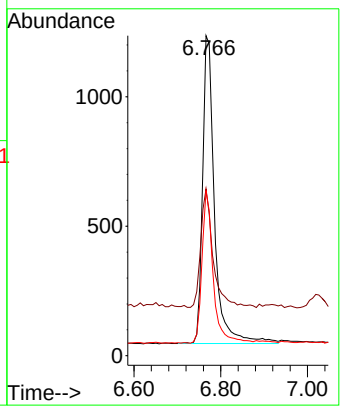
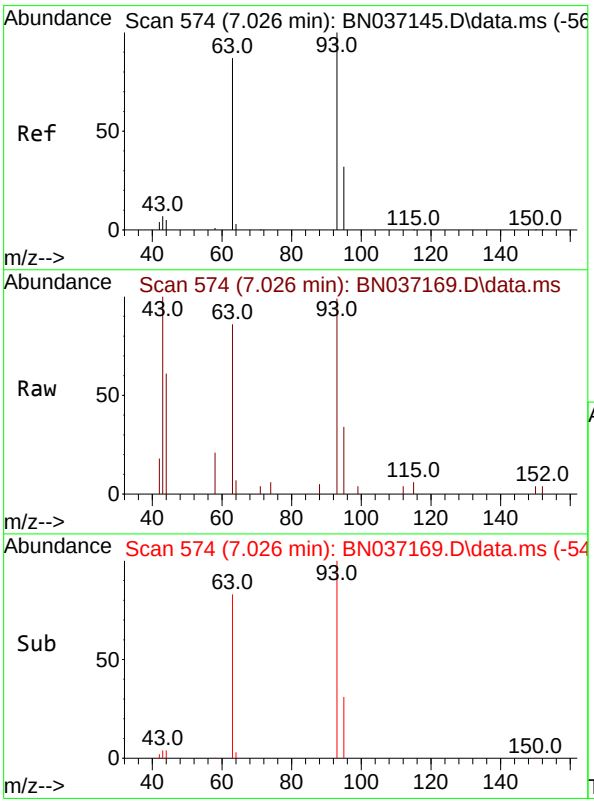
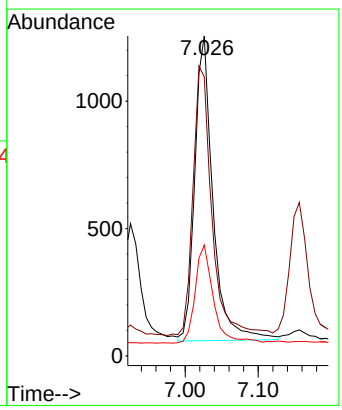


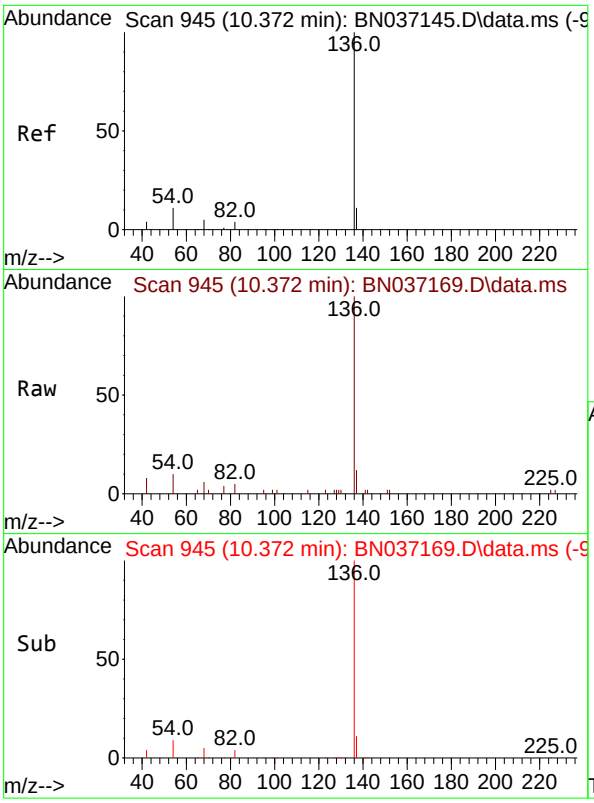


#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.026 min Scan# 574
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion: 93 Resp: 2073

Ion	Ratio	Lower	Upper
93	100		
63	91.2	68.6	103.0
95	32.1	24.3	36.5

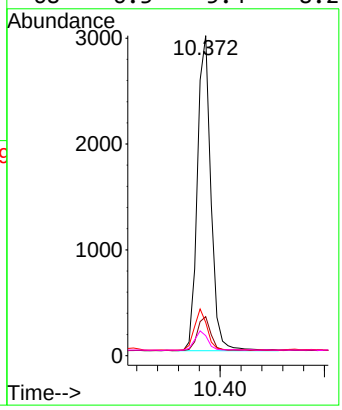




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:136 Resp: 535

Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.4	9.7	14.5
68	6.3	5.4	8.2



Instrument :
BNA_N
ClientSampleId :
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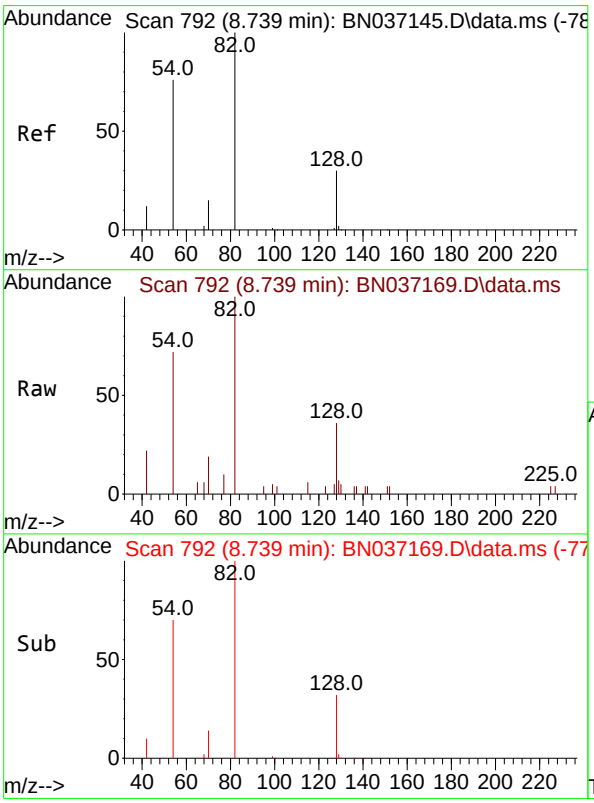
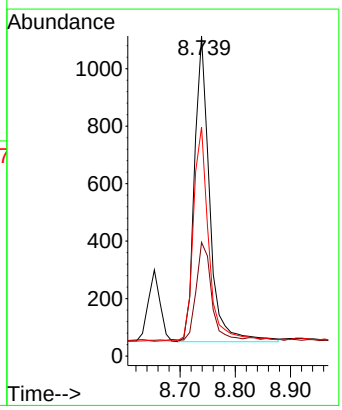
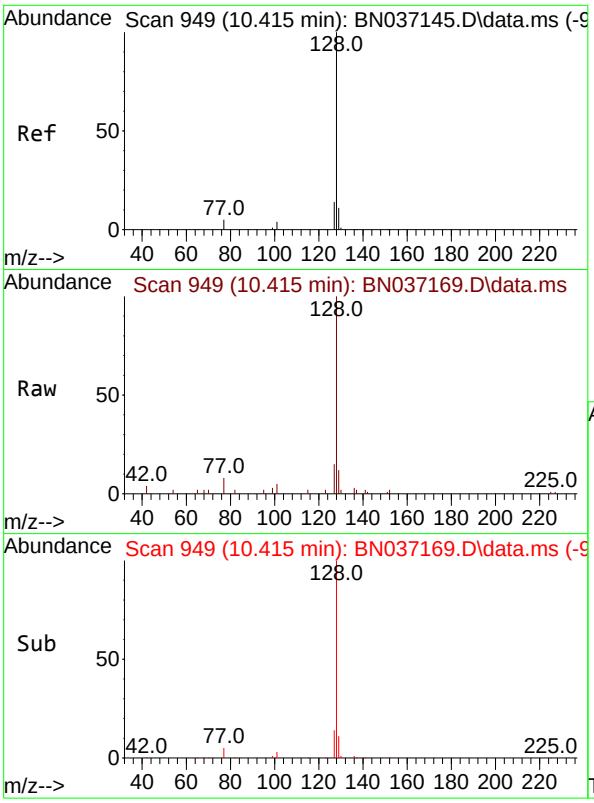


#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion: 82 Resp: 2021

Ion	Ratio	Lower	Upper
82	100		
128	35.5	26.9	40.3
54	71.5	61.4	92.2





#9
Naphthalene
Concen: 0.351 ng
RT: 10.415 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:128 Resp: 541

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.8
127	14.9	12.3	18.5

Instrument :
BNA_N
ClientSampleId :
PB168238BSD

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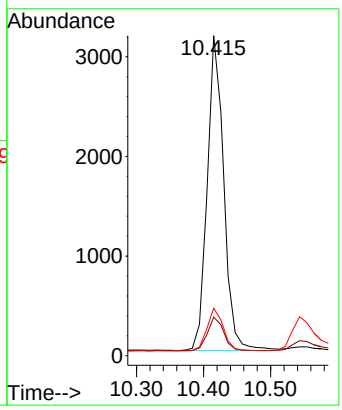
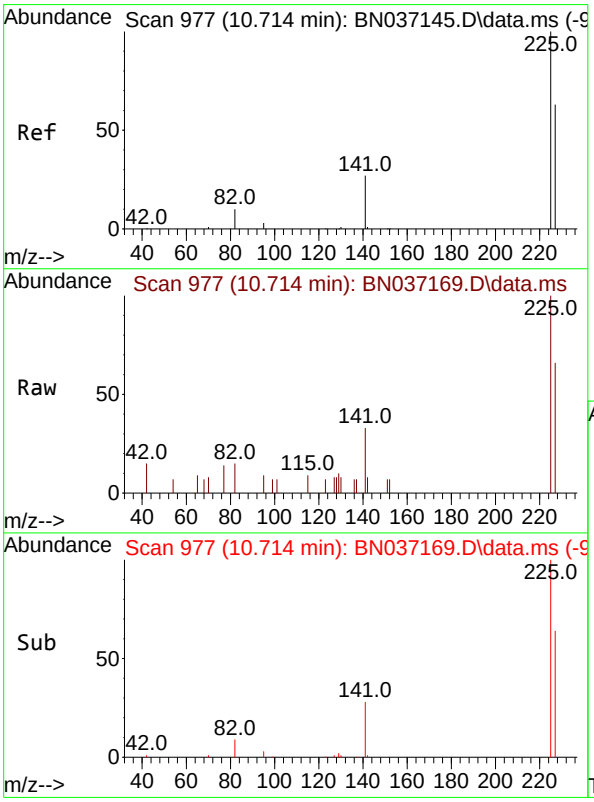
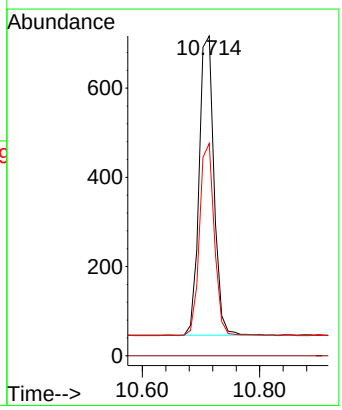


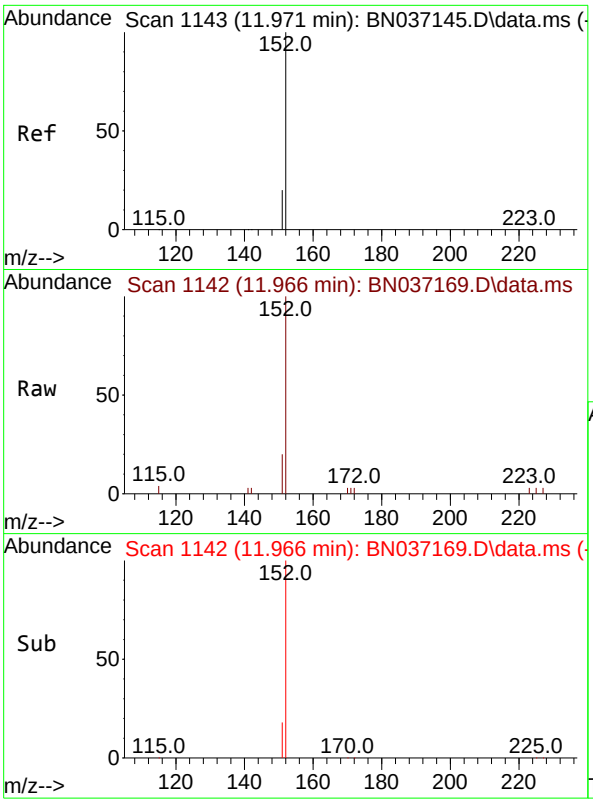


#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.714 min Scan# 977
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:225 Resp: 1183

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	50.3	75.5





#11
2-Methylnaphthalene-d10
Concen: 0.384 ng m
RT: 11.966 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:152 Resp: 285

Ion	Ratio	Lower	Upper
152	100		
151	19.4	17.1	25.7

Instrument :
BNA_N
ClientSampleId :
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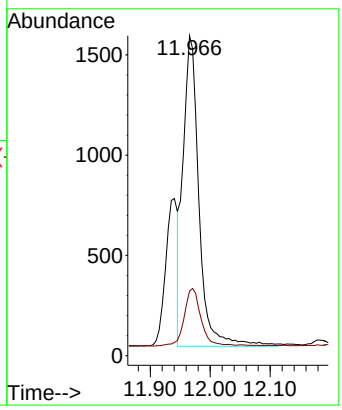
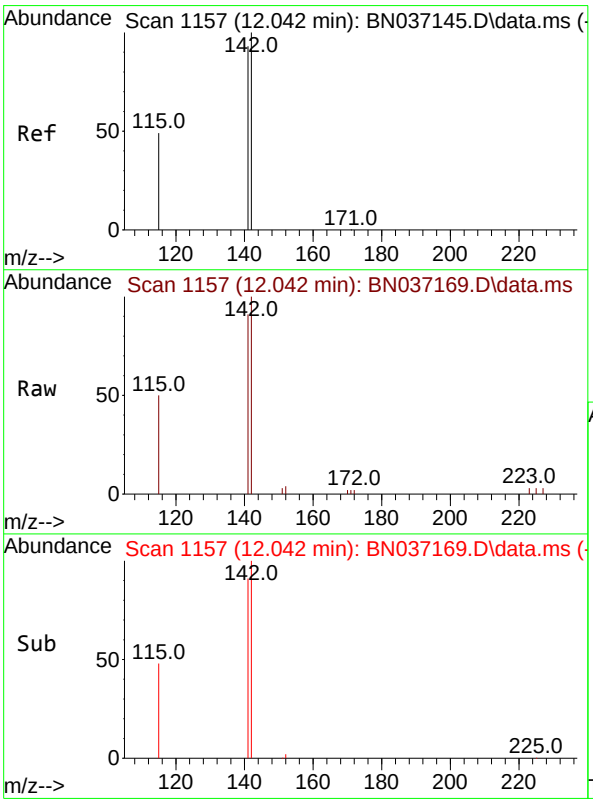
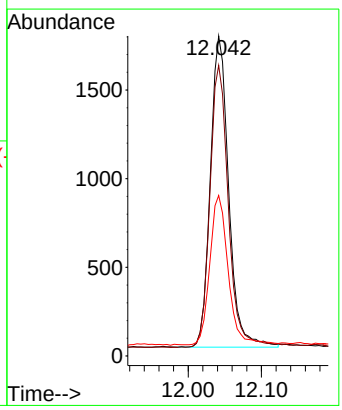


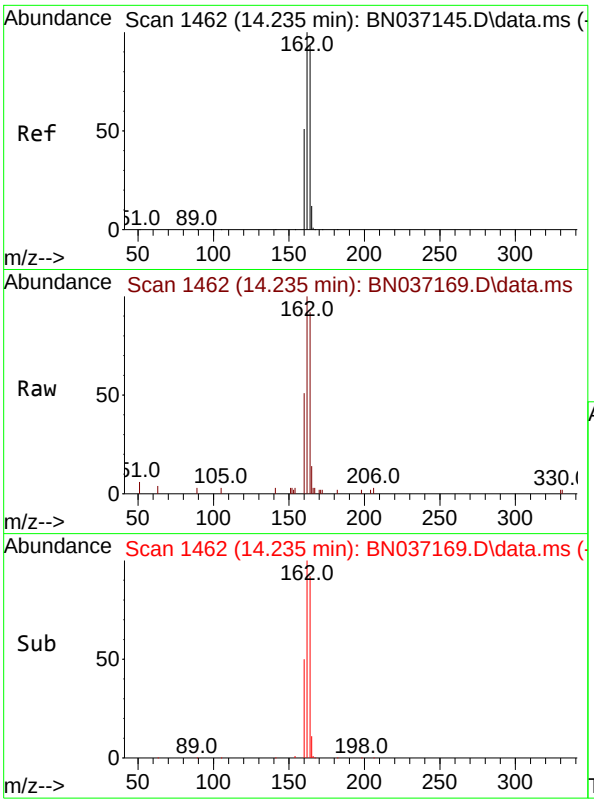


#12
2-Methylnaphthalene
Concen: 0.309 ng
RT: 12.042 min Scan# 1157
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:142 Resp: 3054

Ion	Ratio	Lower	Upper
142	100		
141	90.8	74.6	111.8
115	50.1	41.0	61.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:164 Resp: 266

Ion	Ratio	Lower	Upper
164	100		
162	108.5	85.5	128.3
160	55.8	44.6	67.0

Instrument :
BNA_N
ClientSampleId :
PB168238BSD

Manual Integrations
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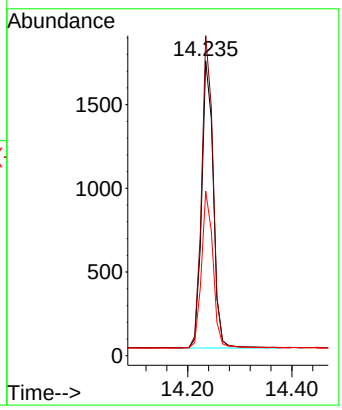
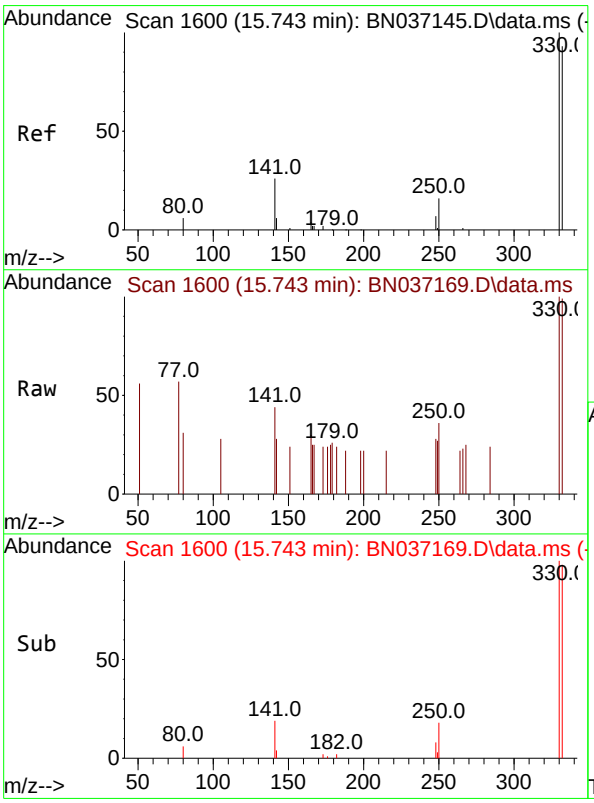
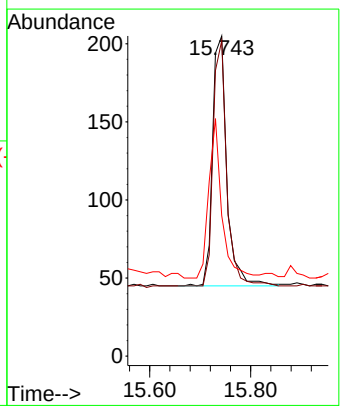


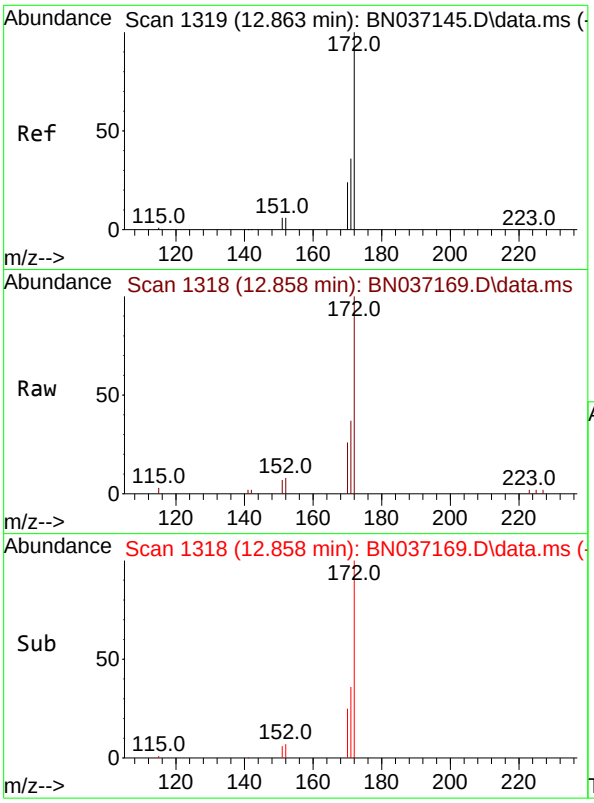


#14
2,4,6-Tribromophenol
Concen: 0.293 ng
RT: 15.743 min Scan# 1600
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:330 Resp: 314

Ion	Ratio	Lower	Upper
330	100		
332	93.0	77.1	115.7
141	58.0	46.4	69.6

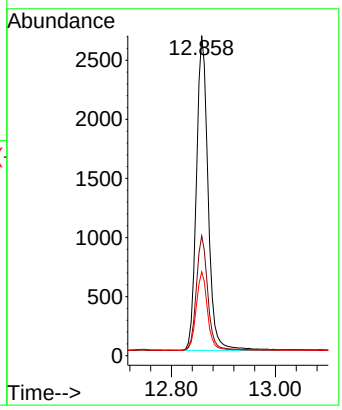




#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 12.858 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:172 Resp: 414

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.6	44.4
170	26.2	20.3	30.5



Instrument :
BNA_N
ClientSampleId :
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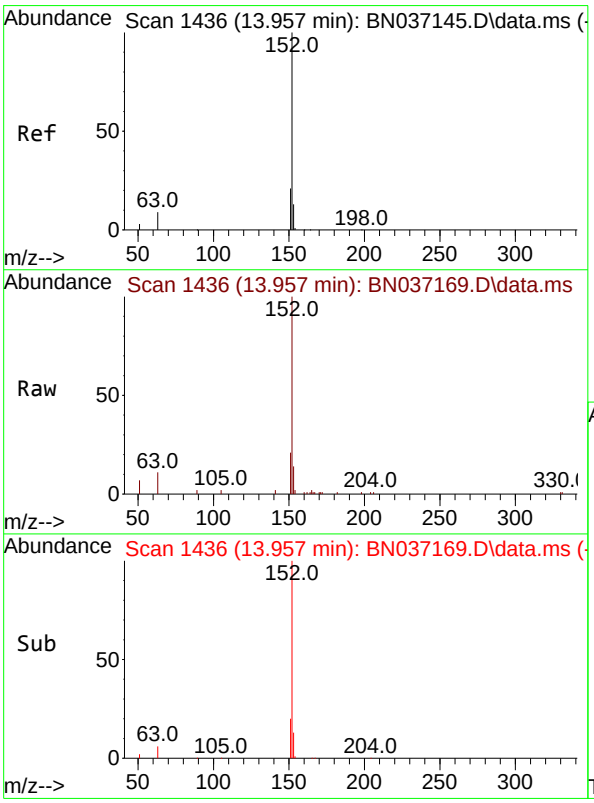
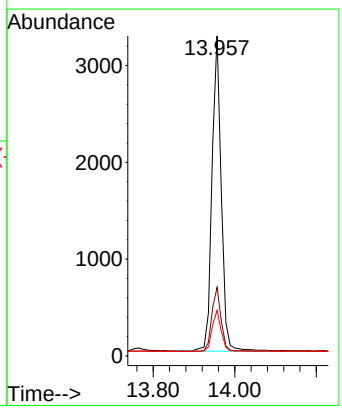
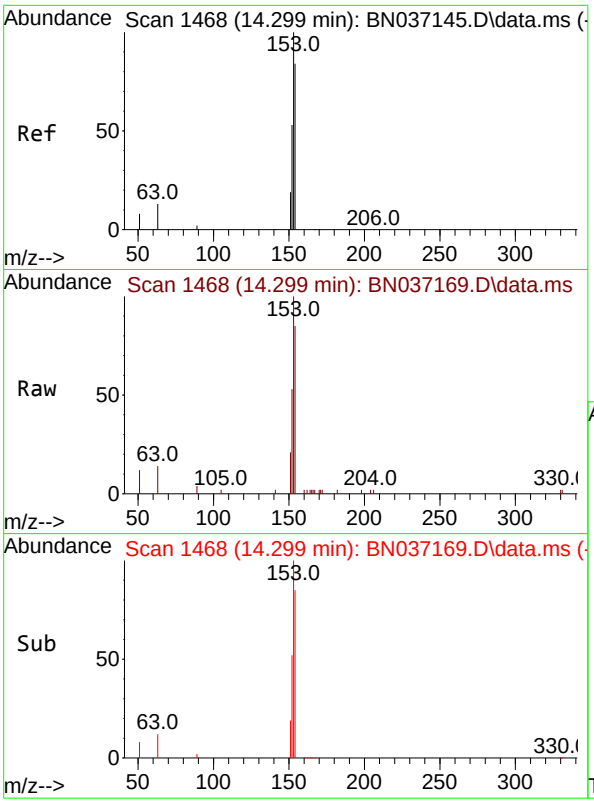


#16
Acenaphthylene
Concen: 0.392 ng
RT: 13.957 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:152 Resp: 5109

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	12.9	10.6	15.8

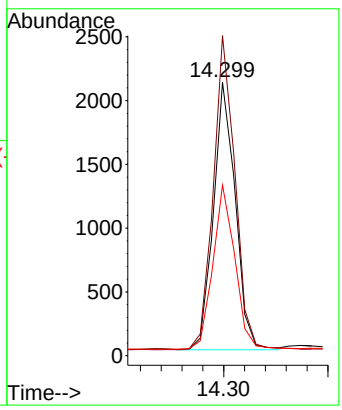




#17
Acenaphthene
Concen: 0.360 ng
RT: 14.299 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:154 Resp: 305

Ion	Ratio	Lower	Upper
154	100		
153	117.2	93.8	140.8
152	61.7	50.5	75.7



Instrument :
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ClientSampleId :
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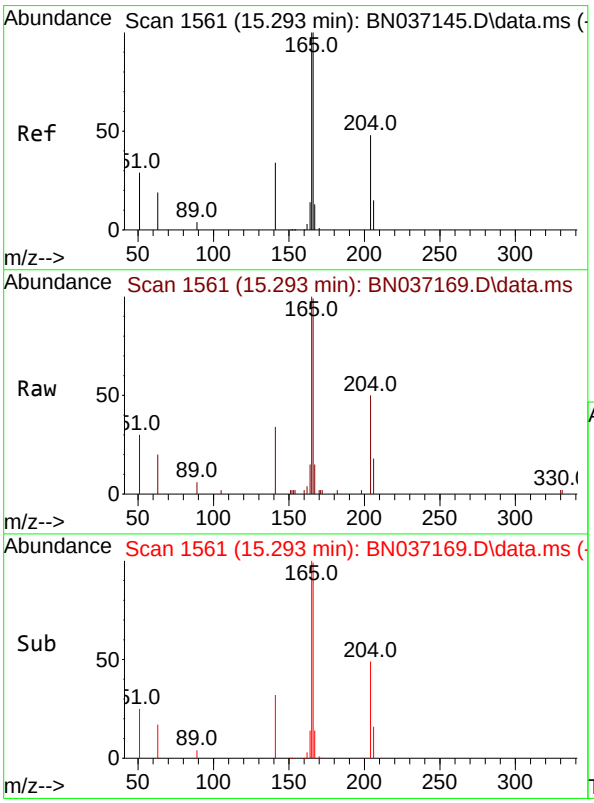
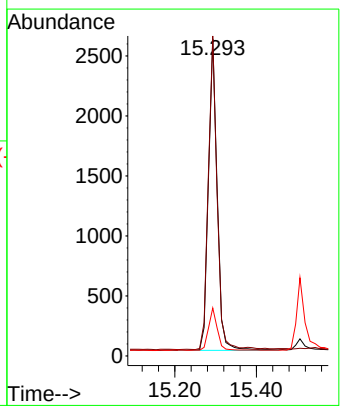
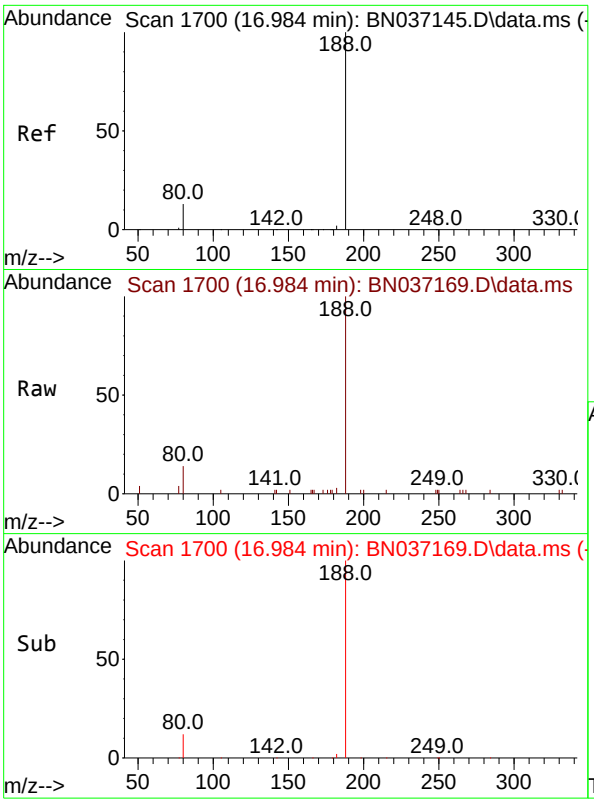


#18
Fluorene
Concen: 0.349 ng
RT: 15.293 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:166 Resp: 3886

Ion	Ratio	Lower	Upper
166	100		
165	99.5	81.1	121.7
167	13.6	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:188 Resp: 441

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.6	11.3	16.9

Instrument :
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ClientSampleId :
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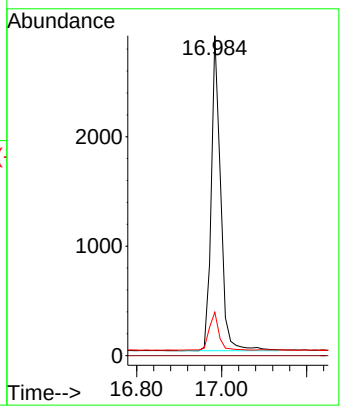
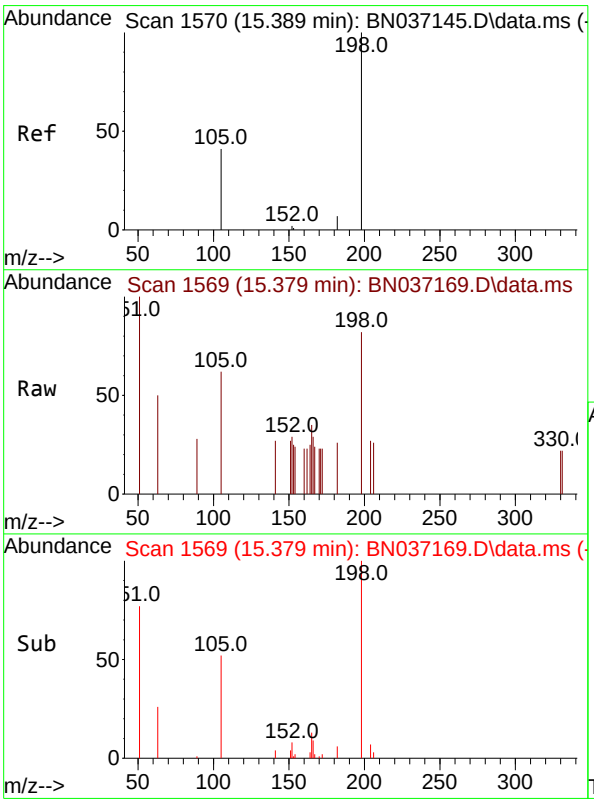
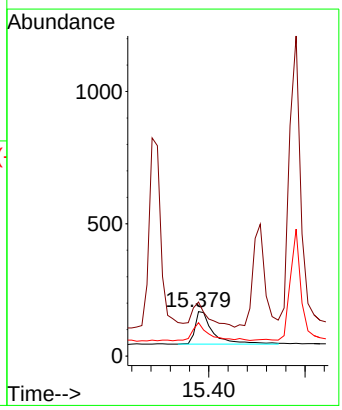


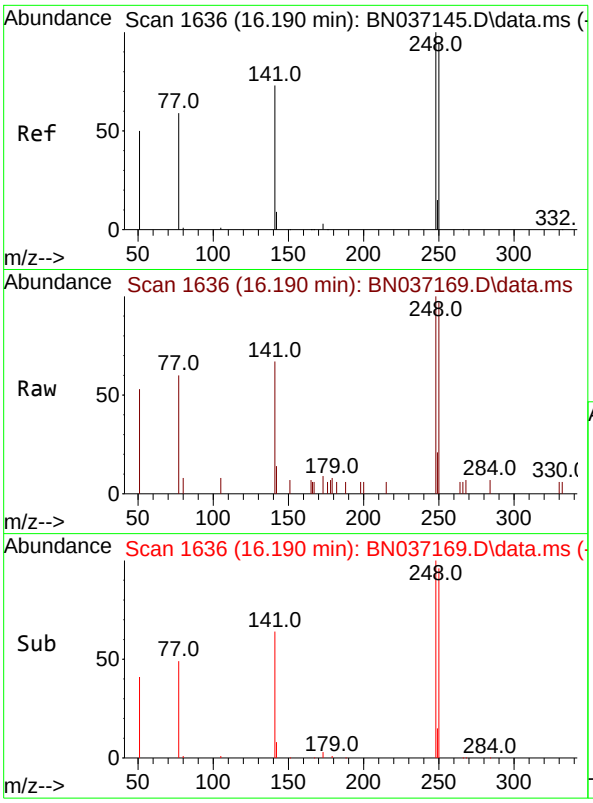


#20
4,6-Dinitro-2-methylphenol
Concen: 0.528 ng
RT: 15.379 min Scan# 1569
Delta R.T. -0.010 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:198 Resp: 328

Ion	Ratio	Lower	Upper
198	100		
51	121.4	125.2	187.8#
105	75.0	57.1	85.7





#21
4-Bromophenyl-phenylether
Concen: 0.367 ng
RT: 16.190 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:248 Resp: 106

Ion	Ratio	Lower	Upper
248	100		
250	96.6	76.1	114.1
141	66.8	60.1	90.1

Instrument :
BNA_N
ClientSampleId :
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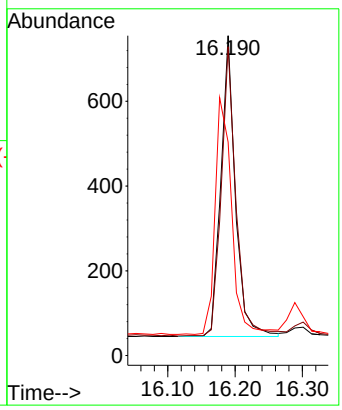
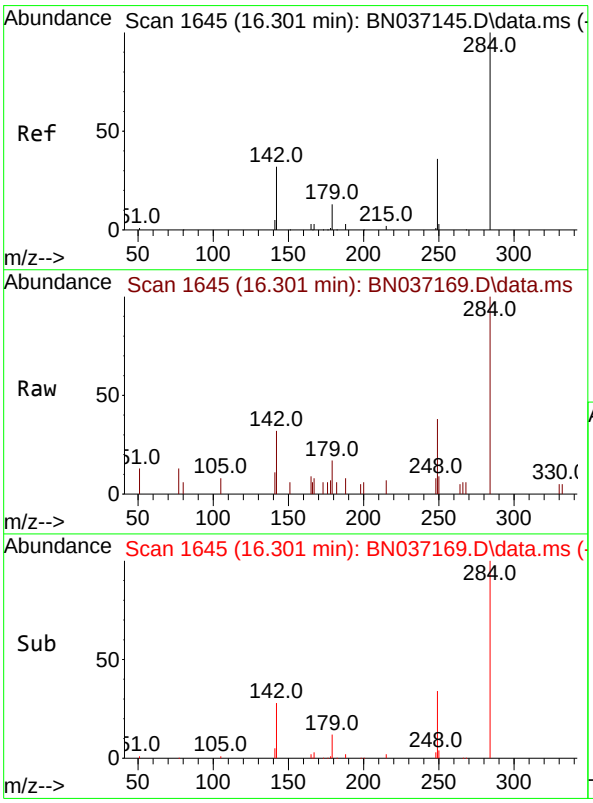
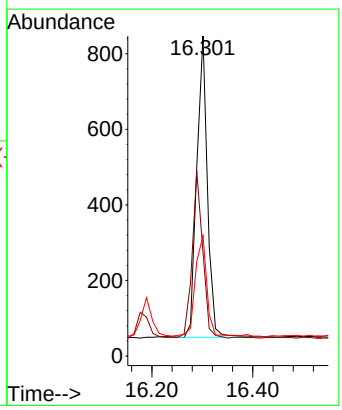


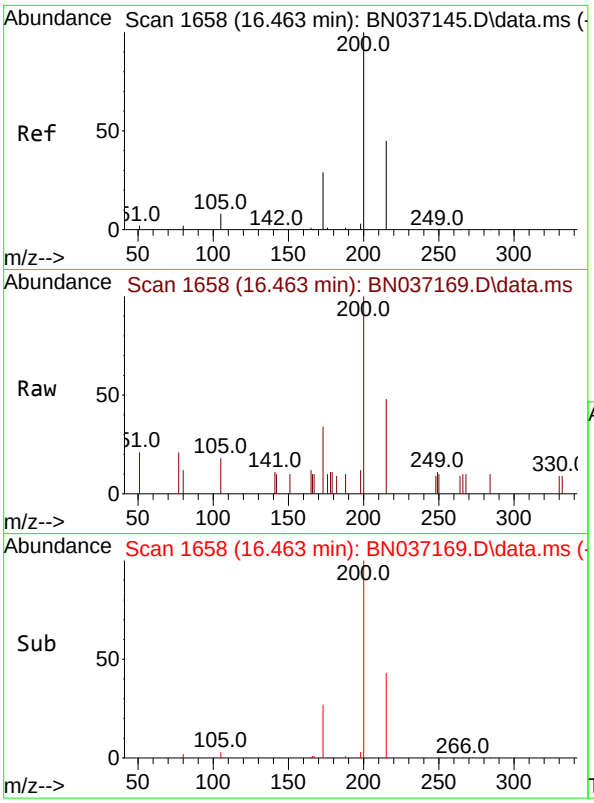


#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.301 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:284 Resp: 1169

Ion	Ratio	Lower	Upper
284	100		
142	54.7	44.0	66.0
249	35.6	29.7	44.5

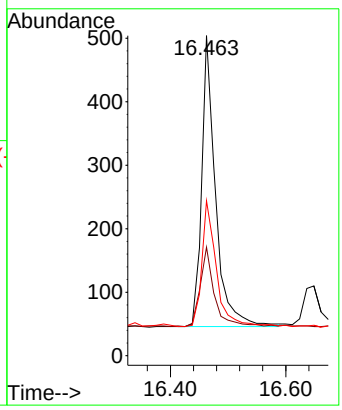




#23
Atrazine
Concen: 0.319 ng
RT: 16.463 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:200 Resp: 76

Ion	Ratio	Lower	Upper
200	100		
173	33.9	28.1	42.1
215	48.4	39.3	58.9



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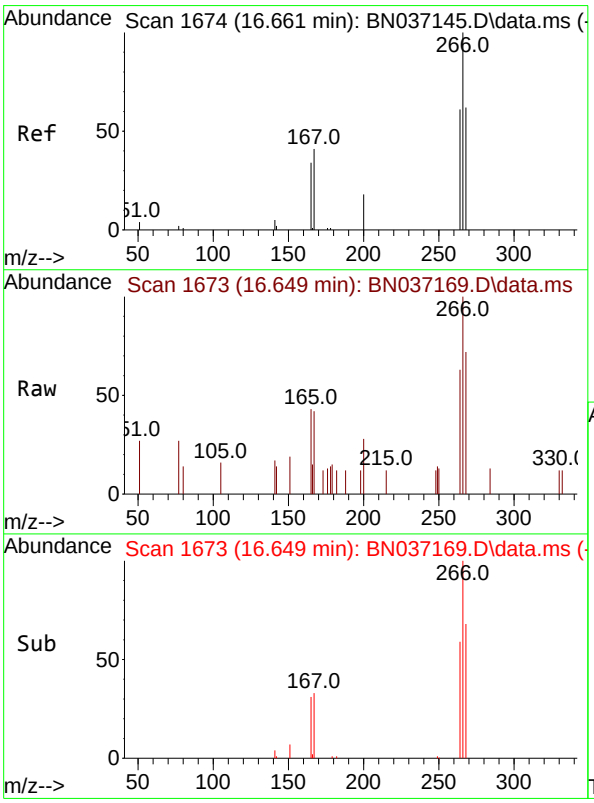
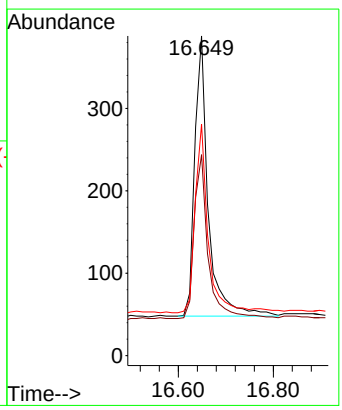
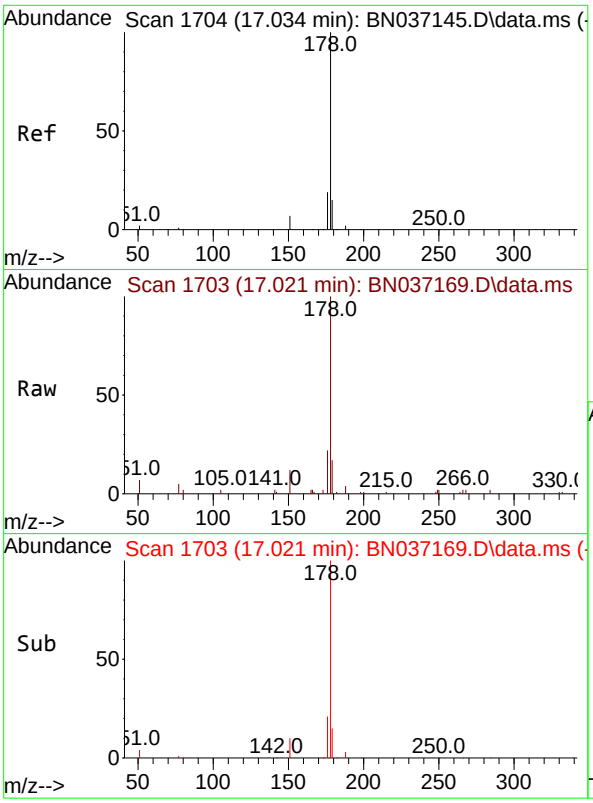


#24
Pentachlorophenol
Concen: 0.574 ng
RT: 16.649 min Scan# 1673
Delta R.T. -0.012 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:266 Resp: 671

Ion	Ratio	Lower	Upper
266	100		
264	60.4	49.3	73.9
268	66.2	49.0	73.4

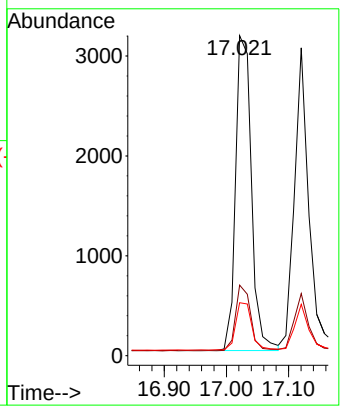




#25
Phenanthrene
Concen: 0.392 ng
RT: 17.021 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:178 Resp: 561

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
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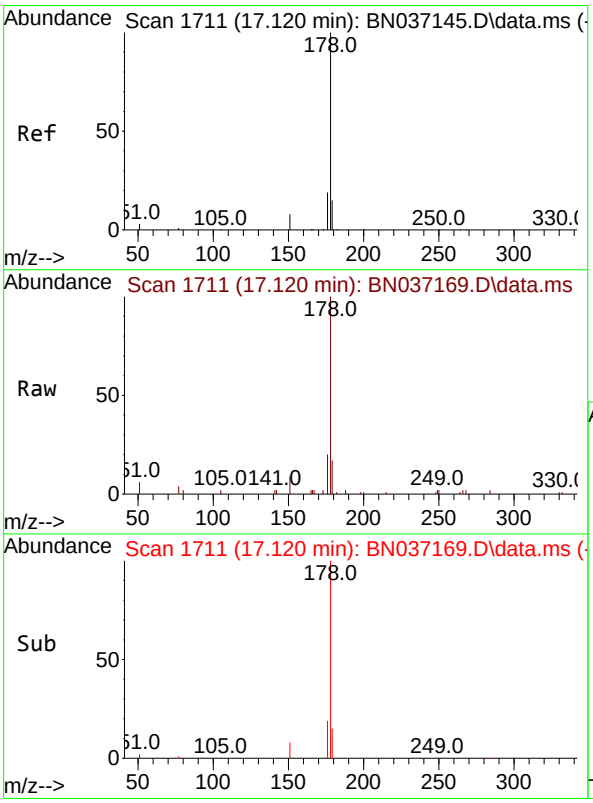
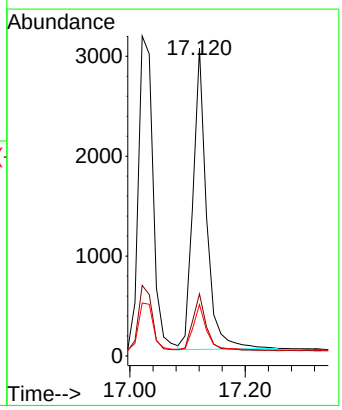
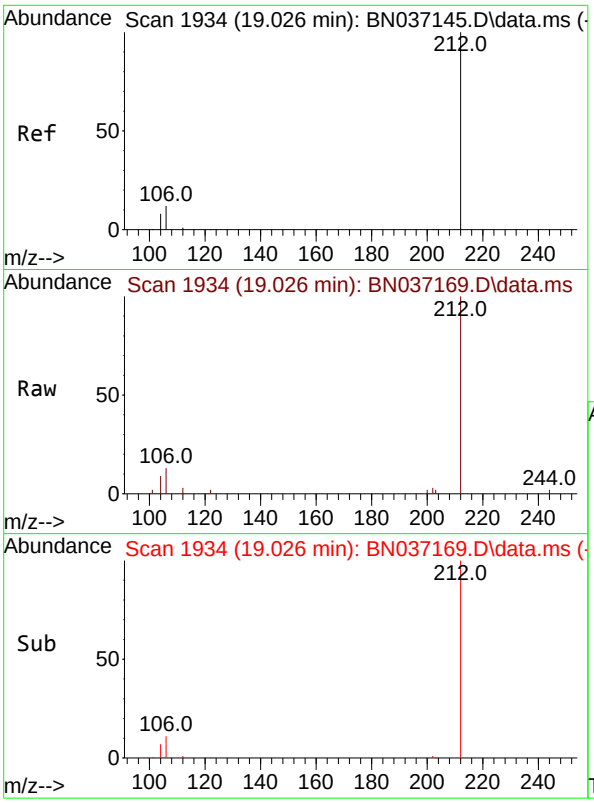


#26
Anthracene
Concen: 0.378 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:178 Resp: 4942

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





#27
Fluoranthene-d10
Concen: 0.297 ng
RT: 19.026 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:212 Resp: 333

Ion	Ratio	Lower	Upper
212	100		
106	13.1	10.6	15.8
104	7.9	6.6	9.8

Instrument :
BNA_N
ClientSampleId :
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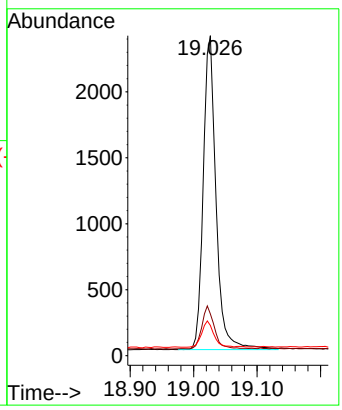
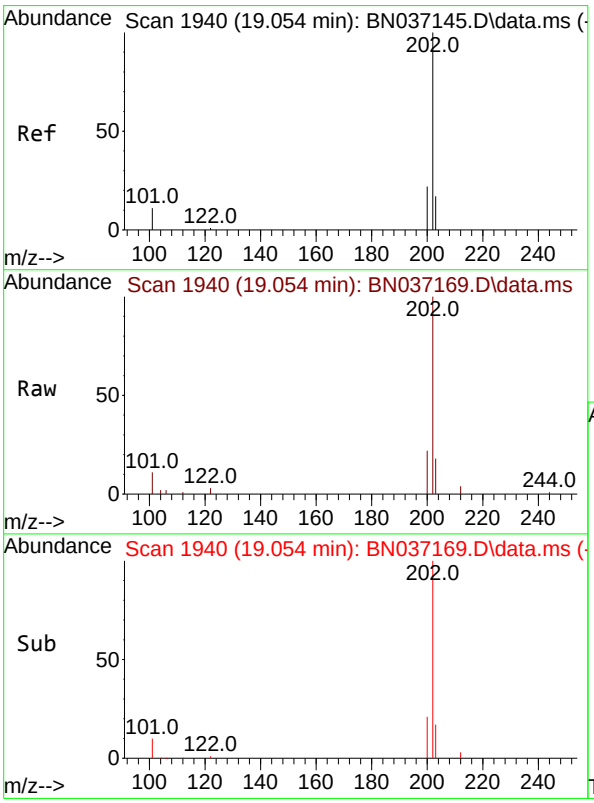
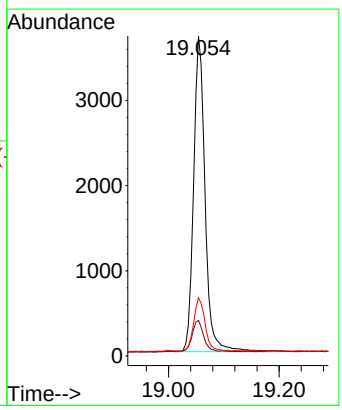


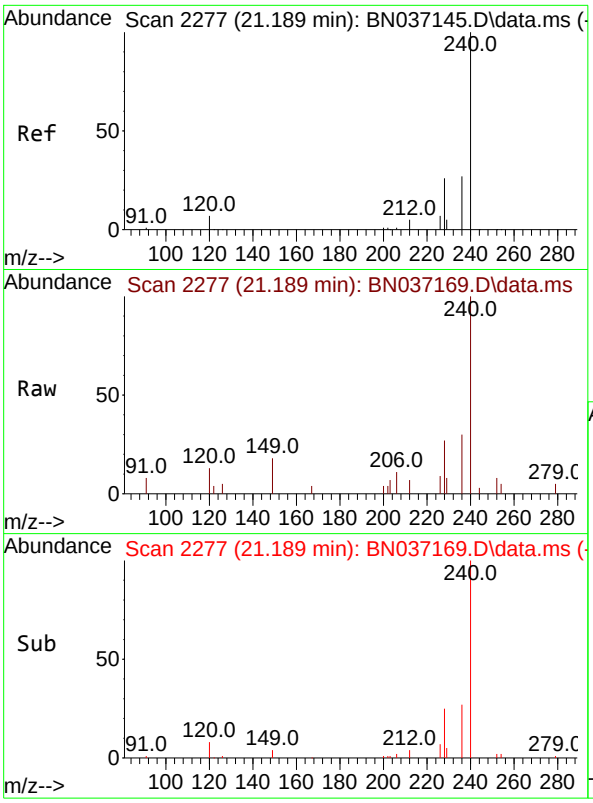


#28
Fluoranthene
Concen: 0.338 ng
RT: 19.054 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:202 Resp: 5342

Ion	Ratio	Lower	Upper
202	100		
101	10.1	8.7	13.1
203	16.6	13.5	20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Instrument :
BNA_N
ClientSampleId :
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Tgt Ion:240 Resp: 267

Ion	Ratio	Lower	Upper
240	100		
120	13.4	9.0	13.4
236	30.0	23.0	34.4

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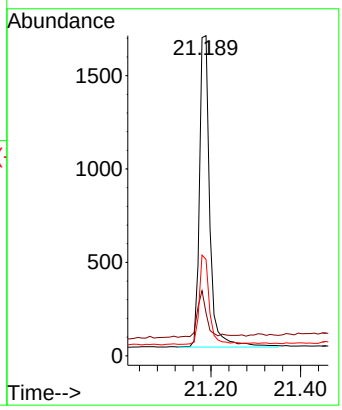
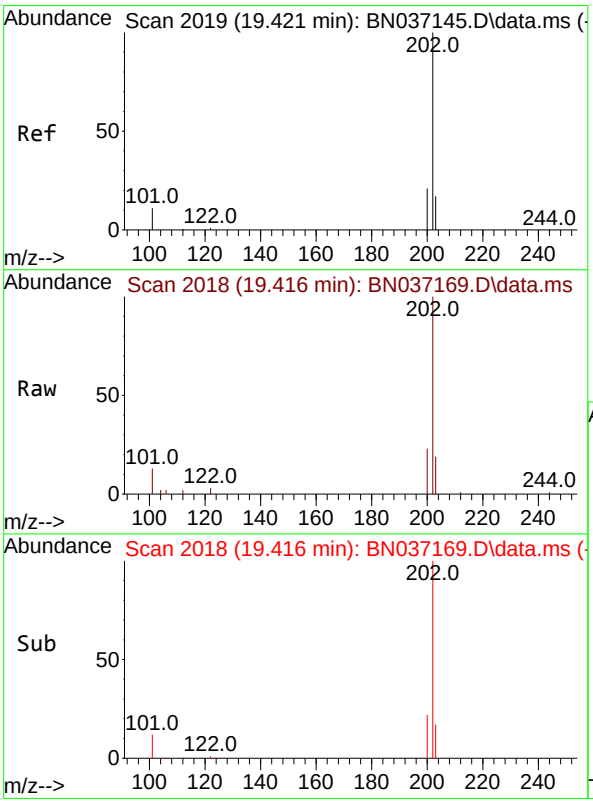
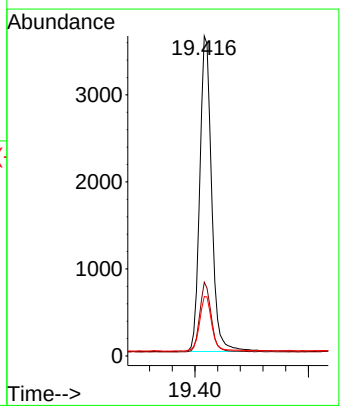


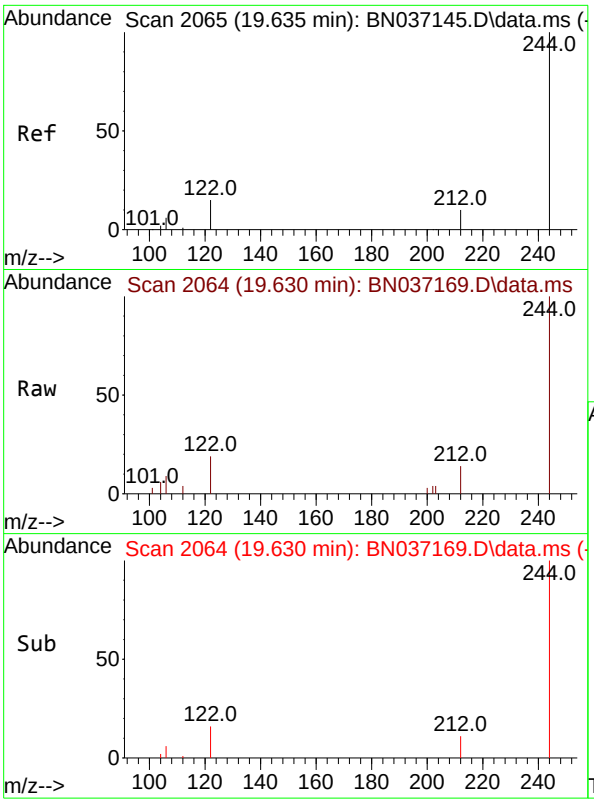


#30
Pyrene
Concen: 0.403 ng
RT: 19.416 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:202 Resp: 5262

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.6
203	17.8	14.2	21.4

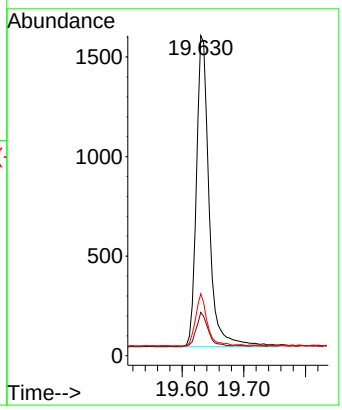




#31
Terphenyl-d14
Concen: 0.358 ng
RT: 19.630 min Scan# 2(
Delta R.T. -0.005 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:244 Resp: 225(

Ion	Ratio	Lower	Upper
244	100		
212	13.6	10.0	15.0
122	19.4	13.2	19.8



Instrument :
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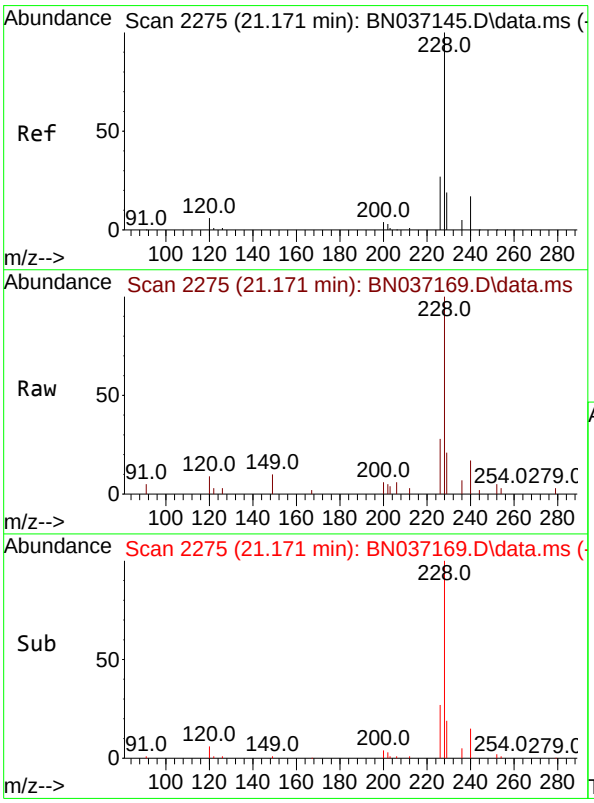
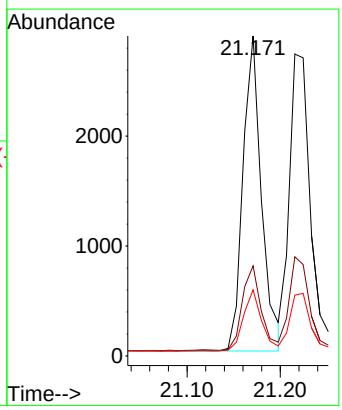
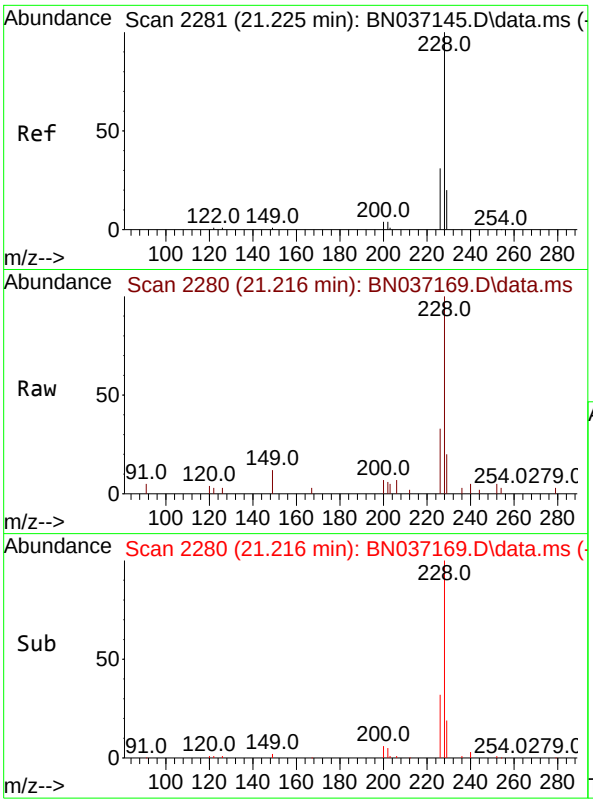


#32
Benzo(a)anthracene
Concen: 0.408 ng
RT: 21.171 min Scan# 2275
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:228 Resp: 3952

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	20.7	16.2	24.2

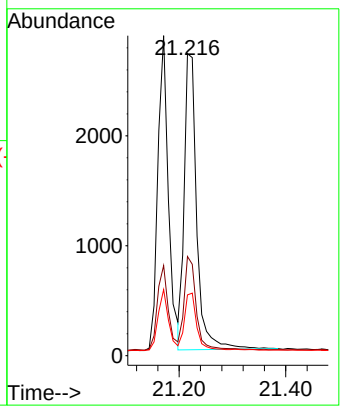




#33
Chrysene
Concen: 0.407 ng
RT: 21.216 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:228 Resp: 439

Ion	Ratio	Lower	Upper
228	100		
226	32.8	25.2	37.8
229	20.1	16.8	25.2



Instrument :
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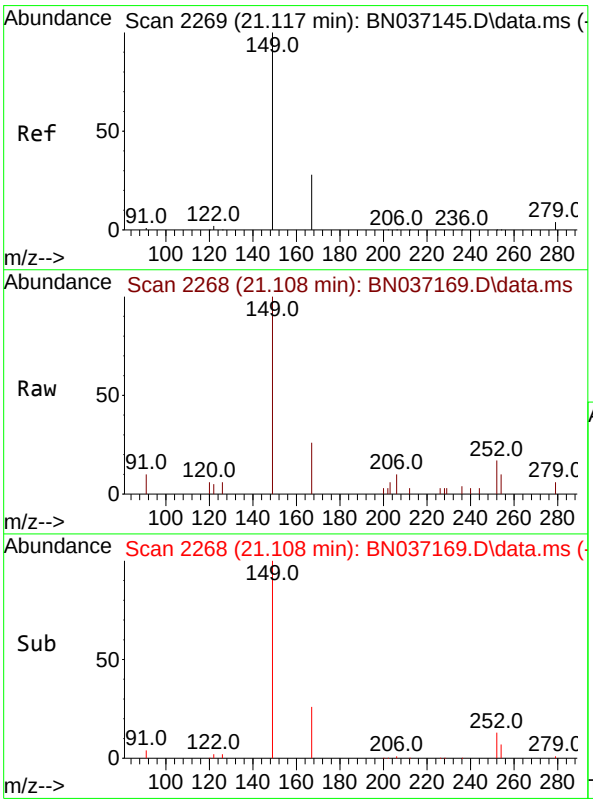
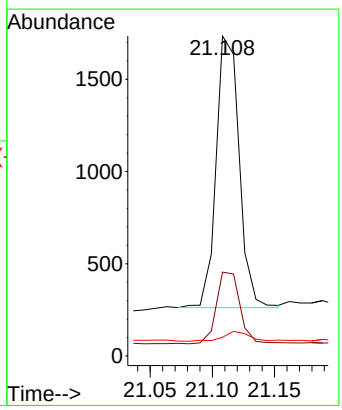
Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

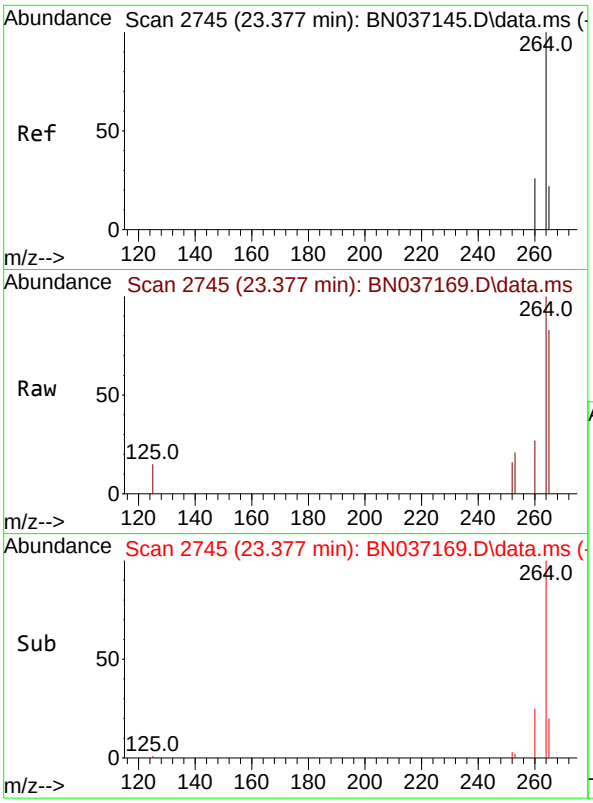


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.311 ng
RT: 21.108 min Scan# 2268
Delta R.T. -0.009 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:149 Resp: 1898

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.0	31.4
279	4.4	2.9	4.3#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.377 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

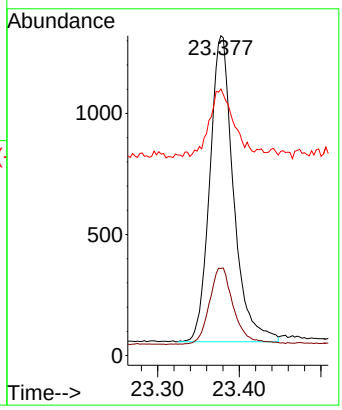
Instrument :
BNA_N
ClientSampleId :
PB168238BSD

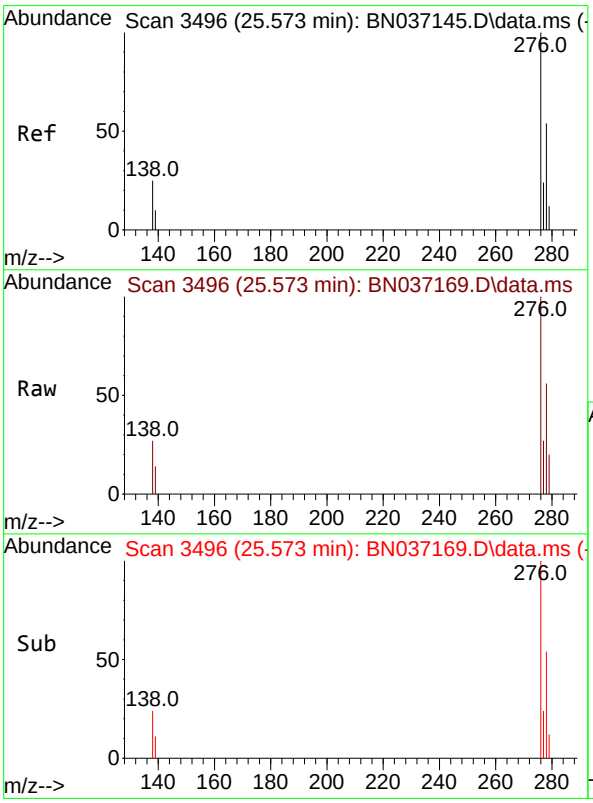
Tgt Ion:264 Resp: 255

Ion	Ratio	Lower	Upper
264	100		
260	27.3	22.1	33.1
265	83.3	55.8	83.8

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

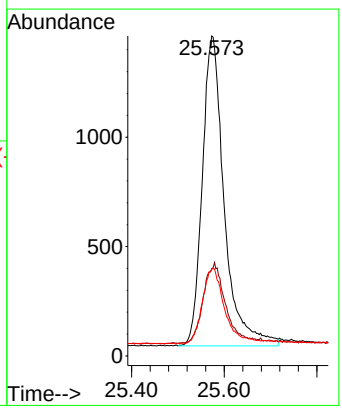


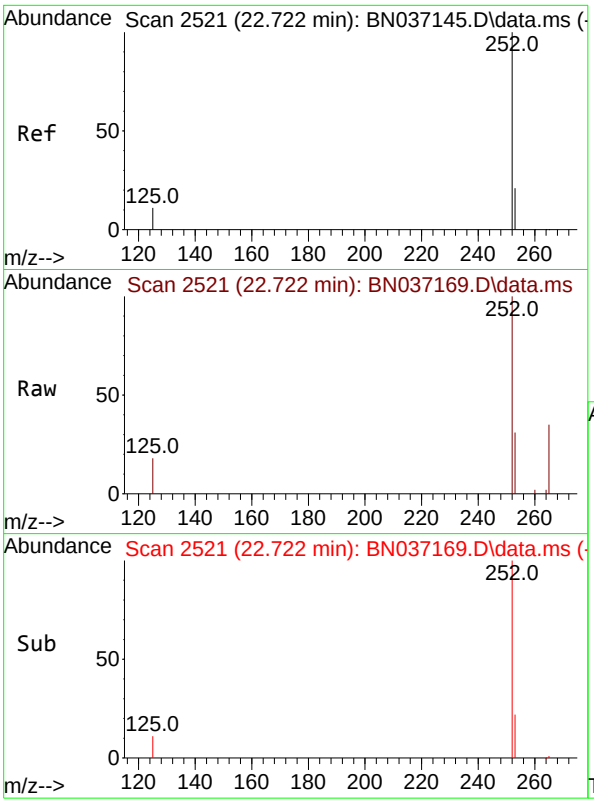


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.460 ng
RT: 25.573 min Scan# 3496
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:276 Resp: 4667

Ion	Ratio	Lower	Upper
276	100		
138	26.5	21.0	31.6
277	24.6	19.4	29.2





#37
Benzo(b)fluoranthene
Concen: 0.367 ng
RT: 22.722 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

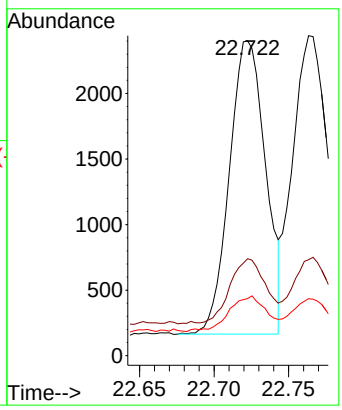
Tgt Ion:252 Resp: 377

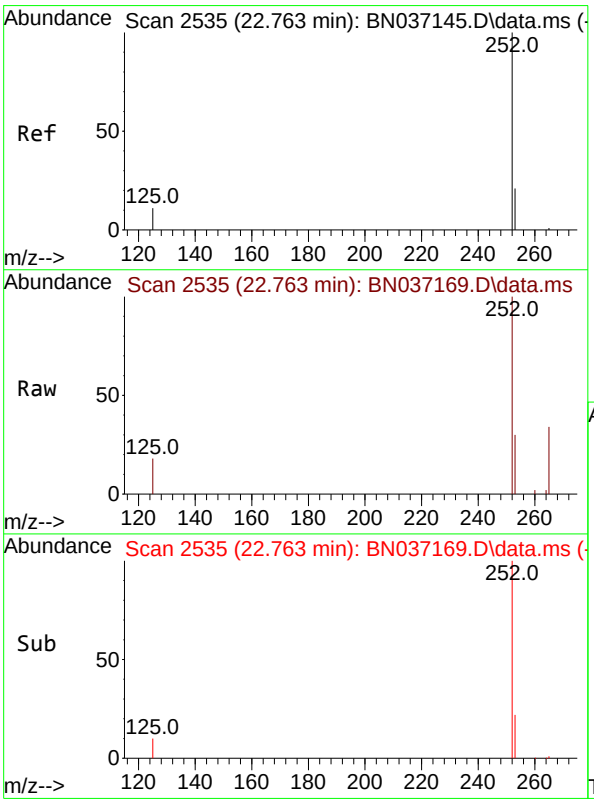
Ion	Ratio	Lower	Upper
252	100		
253	30.8	22.3	33.5
125	18.2	13.2	19.8

Instrument :
BNA_N
ClientSampleId :
PB168238BSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

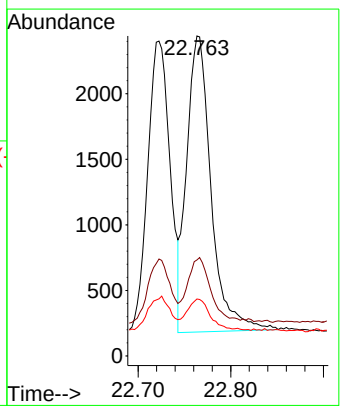


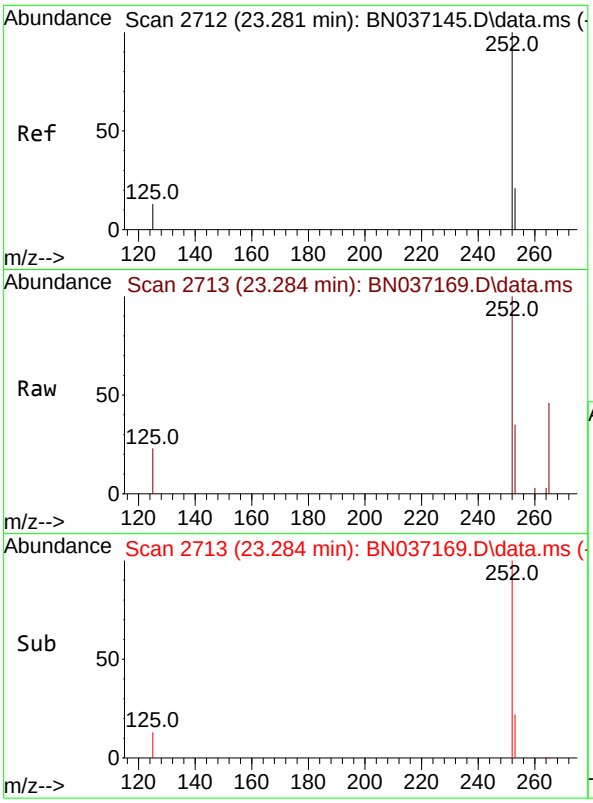


#38
Benzo(k)fluoranthene
Concen: 0.392 ng
RT: 22.763 min Scan# 2535
Delta R.T. 0.000 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:252 Resp: 4120

Ion	Ratio	Lower	Upper
252	100		
253	30.0	22.2	33.4
125	17.8	13.2	19.8

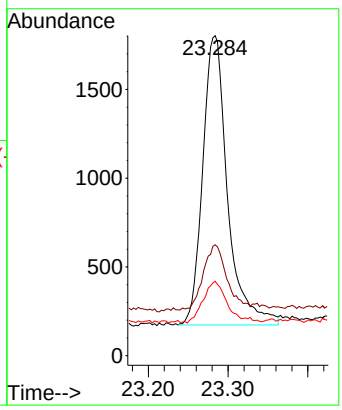




#39
Benzo(a)pyrene
Concen: 0.409 ng
RT: 23.284 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:252 Resp: 352

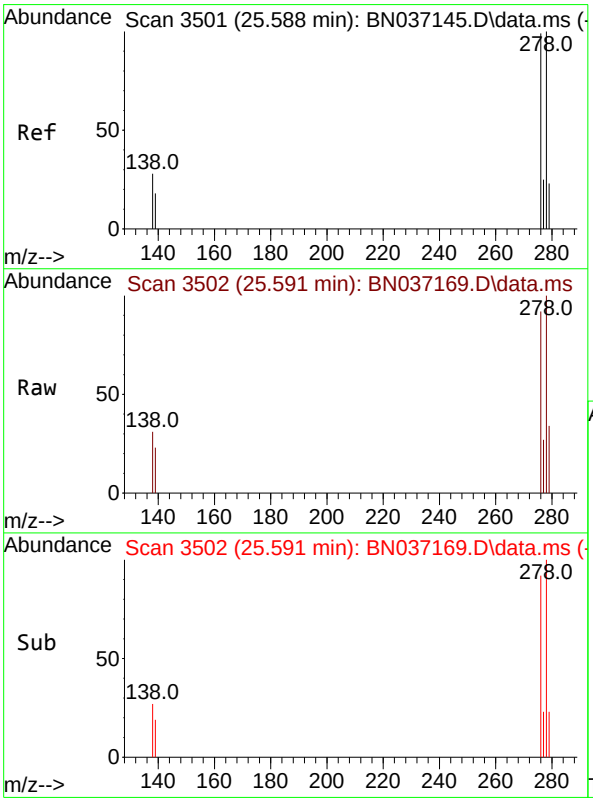
Ion	Ratio	Lower	Upper
252	100		
253	34.7	25.0	37.4
125	23.2	17.0	25.6



Instrument :
BNA_N
ClientSampleId :
PB168238BSD

Manual Integrations
APPROVED

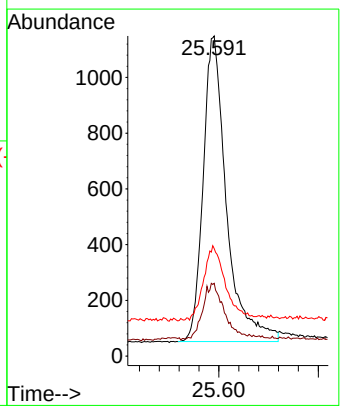
Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

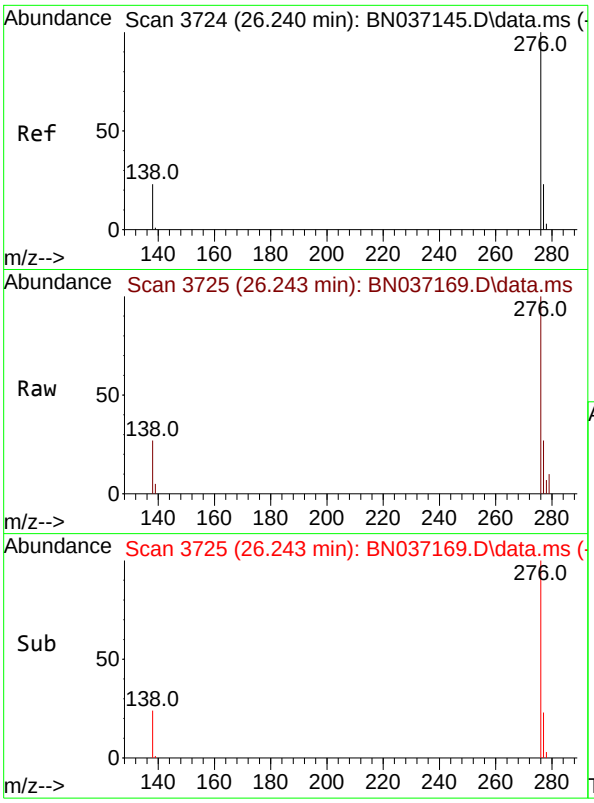


#40
Dibenzo(a,h)anthracene
Concen: 0.457 ng
RT: 25.591 min Scan# 3502
Delta R.T. 0.003 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:278 Resp: 3574

Ion	Ratio	Lower	Upper
278	100		
139	22.7	17.6	26.4
279	33.6	26.0	39.0

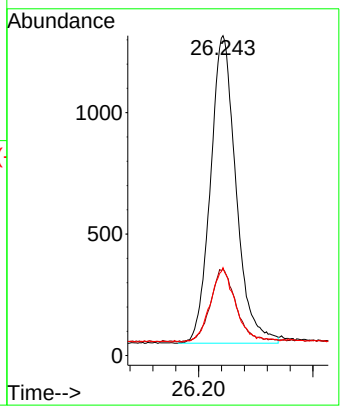




#41
Benzo(g,h,i)perylene
Concen: 0.437 ng
RT: 26.243 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037169.D
Acq: 04 Jun 2025 13:03

Tgt Ion:276 Resp: 393

Ion	Ratio	Lower	Upper
276	100		
277	27.0	20.9	31.3
138	27.5	20.8	31.2



Instrument :
BNA_N
ClientSampleId :
PB168238BSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/04/2025
Supervised By :Jagrut Upadhyay 06/05/2025

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

Manual Integration Report

Sequence:	BN060325	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	BN060425	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168238BS	BN037168.D	2-Methylnaphthalene-d10	Rahul	6/4/2025 4:53:12 PM	Jagrut	6/5/2025 10:47:11 AM	Peak Integrated by Software
PB168238BSD	BN037169.D	2-Methylnaphthalene-d10	Rahul	6/4/2025 4:53:09 PM	Jagrut	6/5/2025 10:47:13 AM	Peak Integrated by Software

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN060325

Review By	Rahul	Review On	6/4/2025 11:44:25 AM		
Supervise By	Jagrut	Supervise On	6/5/2025 10:56:16 AM		
SubDirectory	BN060325	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn060325

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	BN037142.D	03 Jun 2025 10:21	RC/JU	Ok
2	SSTDICC0.1	BN037143.D	03 Jun 2025 11:39	RC/JU	Ok
3	SSTDICC0.2	BN037144.D	03 Jun 2025 12:15	RC/JU	Ok
4	SSTDICCC0.4	BN037145.D	03 Jun 2025 12:51	RC/JU	Ok
5	SSTDICC0.8	BN037146.D	03 Jun 2025 13:26	RC/JU	Ok
6	SSTDICC1.6	BN037147.D	03 Jun 2025 14:02	RC/JU	Ok
7	SSTDICC3.2	BN037148.D	03 Jun 2025 14:38	RC/JU	Ok
8	SSTDICC5.0	BN037149.D	03 Jun 2025 15:14	RC/JU	Ok
9	SSTDICV0.4	BN037150.D	03 Jun 2025 15:53	RC/JU	Ok
10	PB168238BL	BN037151.D	03 Jun 2025 17:05	RC/JU	Not Ok
11	Q2181-01	BN037152.D	03 Jun 2025 17:41	RC/JU	Dilution
12	Q2181-01DL	BN037153.D	03 Jun 2025 18:18	RC/JU	Ok
13	SSTDCCC0.4	BN037154.D	03 Jun 2025 18:54	RC/JU	Ok
14	DFTPP	BN037155.D	03 Jun 2025 20:10	RC/JU	Ok
15	SSTDCCC0.4	BN037156.D	03 Jun 2025 20:49	RC/JU	Ok
16	PB168238BL	BN037157.D	03 Jun 2025 21:25	RC/JU	Not Ok
17	Q2162-03	BN037158.D	03 Jun 2025 22:01	RC/JU	Ok
18	Q2162-07	BN037159.D	03 Jun 2025 22:37	RC/JU	Ok
19	Q2162-09	BN037160.D	03 Jun 2025 23:13	RC/JU	Ok
20	Q2162-10	BN037161.D	03 Jun 2025 23:49	RC/JU	Ok
21	PB168238BS	BN037162.D	04 Jun 2025 00:25	RC/JU	Not Ok

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN060325

Review By	Rahul	Review On	6/4/2025 11:44:25 AM		
Supervise By	Jagrut	Supervise On	6/5/2025 10:56:16 AM		
SubDirectory	BN060325	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn060325

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	

22	PB168238BSD	BN037163.D	04 Jun 2025 01:01	RC/JU	Not Ok
23	SSTDCCC0.4	BN037164.D	04 Jun 2025 02:13	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN060425

Review By	Rahul	Review On	6/4/2025 4:55:38 PM				
Supervise By	Jagrut	Supervise On	6/5/2025 10:47:25 AM				
SubDirectory	BN060425	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn060325		

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	BN037165.D	04 Jun 2025 09:04	RC/JU	Ok
2	SSTDCCC0.4	BN037166.D	04 Jun 2025 10:27	RC/JU	Ok
3	PB168238BL	BN037167.D	04 Jun 2025 11:03	RC/JU	Ok
4	PB168238BS	BN037168.D	04 Jun 2025 12:27	RC/JU	Ok,M
5	PB168238BSD	BN037169.D	04 Jun 2025 13:03	RC/JU	Ok,M
6	SSTDCCC0.4	BN037170.D	04 Jun 2025 13:53	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN060325

Review By	Rahul	Review On	6/4/2025 11:44:25 AM	
Supervise By	Jagrut	Supervise On	6/5/2025 10:56:16 AM	
SubDirectory	BN060325	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn060325

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	BN037142.D	03 Jun 2025 10:21		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037143.D	03 Jun 2025 11:39	Compound #20,24 removed from 0.1 PPM	RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037144.D	03 Jun 2025 12:15		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037145.D	03 Jun 2025 12:51	Compound #20,24 kept on LR.	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037146.D	03 Jun 2025 13:26		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037147.D	03 Jun 2025 14:02		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037148.D	03 Jun 2025 14:38	Method is good for DOD and NONDOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037149.D	03 Jun 2025 15:14		RC/JU	Ok
9	SSTDICV0.4	ICVBN060325	BN037150.D	03 Jun 2025 15:53		RC/JU	Ok
10	PB168238BL	PB168238BL	BN037151.D	03 Jun 2025 17:05	Not Used	RC/JU	Not Ok
11	Q2181-01	38072-062624	BN037152.D	03 Jun 2025 17:41	Need 50X Dilution	RC/JU	Dilution
12	Q2181-01DL	38072-062624DL	BN037153.D	03 Jun 2025 18:18		RC/JU	Ok
13	SSTDCCC0.4	SSTDCCC0.4EC	BN037154.D	03 Jun 2025 18:54		RC/JU	Ok
14	DFTPP	DFTPP	BN037155.D	03 Jun 2025 20:10		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4	BN037156.D	03 Jun 2025 20:49		RC/JU	Ok
16	PB168238BL	PB168238BL	BN037157.D	03 Jun 2025 21:25	Not Used	RC/JU	Not Ok
17	Q2162-03	BP-VPB-182-GW-580-5	BN037158.D	03 Jun 2025 22:01		RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN060325

Review By	Rahul	Review On	6/4/2025 11:44:25 AM	
Supervise By	Jagrut	Supervise On	6/5/2025 10:56:16 AM	
SubDirectory	BN060325	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn060325

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	

18	Q2162-07	BP-VPB-182-GW-620-6	BN037159.D	03 Jun 2025 22:37		RC/JU	Ok
19	Q2162-09	BP-VPB-182-DUP-2025	BN037160.D	03 Jun 2025 23:13		RC/JU	Ok
20	Q2162-10	BP-VPB-182-EB-20250	BN037161.D	03 Jun 2025 23:49		RC/JU	Ok
21	PB168238BS	PB168238BS	BN037162.D	04 Jun 2025 00:25	Recovery Fail for 1,4 Dioxane from low side	RC/JU	Not Ok
22	PB168238BSD	PB168238BSD	BN037163.D	04 Jun 2025 01:01	Recovery Fail for 1,4 Dioxane from low side	RC/JU	Not Ok
23	SSTDCCC0.4	SSTDCCC0.4EC	BN037164.D	04 Jun 2025 02:13		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN060425

Review By	Rahul	Review On	6/4/2025 4:55:38 PM	
Supervise By	Jagrut	Supervise On	6/5/2025 10:47:25 AM	
SubDirectory	BN060425	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn060325

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	BN037165.D	04 Jun 2025 09:04		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037166.D	04 Jun 2025 10:27		RC/JU	Ok
3	PB168238BL	PB168238BL	BN037167.D	04 Jun 2025 11:03		RC/JU	Ok
4	PB168238BS	PB168238BS	BN037168.D	04 Jun 2025 12:27		RC/JU	Ok,M
5	PB168238BSD	PB168238BSD	BN037169.D	04 Jun 2025 13:03		RC/JU	Ok,M
6	SSTDCCC0.4	SSTDCCC0.4EC	BN037170.D	04 Jun 2025 13:53		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168238

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 06/02/2025

Extraction Start Time : 08:55

Extraction End Date : 06/02/2025

Extraction End Time : 18:50

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	SP6758
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	E3939
Baked Na2SO4	N/A	EP2620
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# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH, Q2162-03 used Limited volume as sample is muddy & Q2162-07,09 Limited volume received. Q2181-01 added at 14:27.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/2/25	RS (Extraction)	Rel SVOC
18:55	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168238

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 06/02/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168238BL	SBLK238	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			SEP-1
PB168238BS	SLCS238	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			2
PB168238BSD	SLCSD238	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			3
Q2162-03	BP-VPB-182-GW-580-582	SVOC-SIMGroup1	100	6	RUPESH	ritesh	1		Muddy	4
Q2162-07	BP-VPB-182-GW-620-622	SVOC-SIMGroup1	550	6	RUPESH	ritesh	1	C		5
Q2162-09	BP-VPB-182-DUP-20250528	SVOC-SIMGroup1	500	6	RUPESH	ritesh	1			6
Q2162-10	BP-VPB-182-EB-20250529	SVOC-SIMGroup1	890	6	RUPESH	ritesh	1	C		7
Q2181-01	38072-062624	SVOCMS Group5	1000	6	RUPESH	ritesh	1			8

RS
6/2

* **Extracts relinquished on the same date as received.**

168238
8:51

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2162 **WorkList ID :** 189862 **Department :** Extraction **Date :** 06-02-2025 08:51:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2162-03	BP-VPB-182-GW-580-582	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/27/2025	8270-Modified
Q2162-07	BP-VPB-182-GW-620-622	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/28/2025	8270-Modified
Q2162-09	BP-VPB-182-DUP-20250528	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/28/2025	8270-Modified
Q2162-10	BP-VPB-182-EB-20250529	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/29/2025	8270-Modified

Date/Time 6/2/25 8:51
Raw Sample Received by: RS (Ext-Lab)
Raw Sample Relinquished by: SM

Date/Time 6/2/25 9:30
Raw Sample Received by: SM
Raw Sample Relinquished by: RS (Ext-Lab)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2181 **WorkList ID :** 189887 **Department :** Extraction **Date :** 06-02-2025 14:27:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2181-01	38072-062624	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	05/30/2025	8270-Modified

Date/Time 6/2/25 14:27

Raw Sample Received by: RS (Ext-Lab)

Raw Sample Relinquished by: SJ (QAO)

Date/Time _____

Raw Sample Received by: _____

Raw Sample Relinquished by: _____

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Prep Standard - Chemical Standard Summary

Order ID : Q2181

Test : SVOCMS Group5

Prepbatch ID : PB168238,

Sequence ID/Qc Batch ID: BN060325,BN060425,

Standard ID :
EP2609,EP2610,EP2620,SP6740,SP6756,SP6757,SP6758,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3874,E3902,E3904,E3915,E3926,E3939,M6157,S10104,S11496,S11650,S11788,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,S12974,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	EP2620	05/30/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/30/2025

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
3491	8270-SIM-Surrogate 0.4 PPM	SP6758	04/03/2025	07/24/2025	Rahul Chavli	None	None	mohammad ahmed 04/07/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	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

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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	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

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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	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

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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	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

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

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	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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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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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	11/22/2025	05/22/2025 / RUPESH	02/28/2025 / RUPESH	E3939

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-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

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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	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	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

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

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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	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

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 #
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	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.

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.

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

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 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

Recd. by RS on 3/19/25

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

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

Avantor Performance Materials, LLC

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

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

E3939

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
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M615 MB

avantor | J.T.Baker

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

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

511649 ↓ 511658 Y.P. 11/13/23

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

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

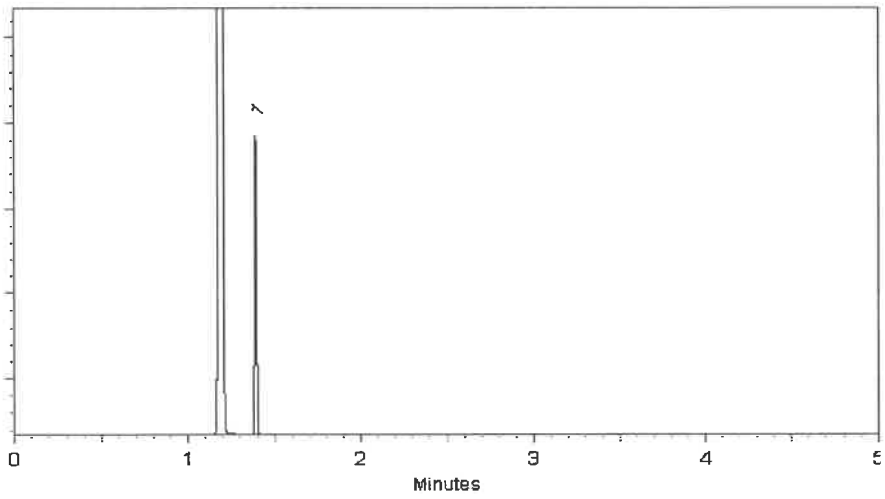
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

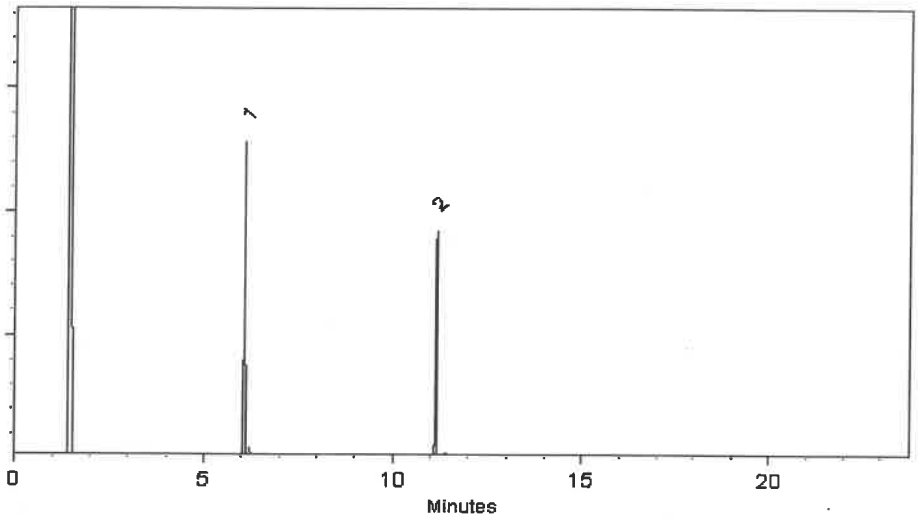
Inj. Temp:
250°C

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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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

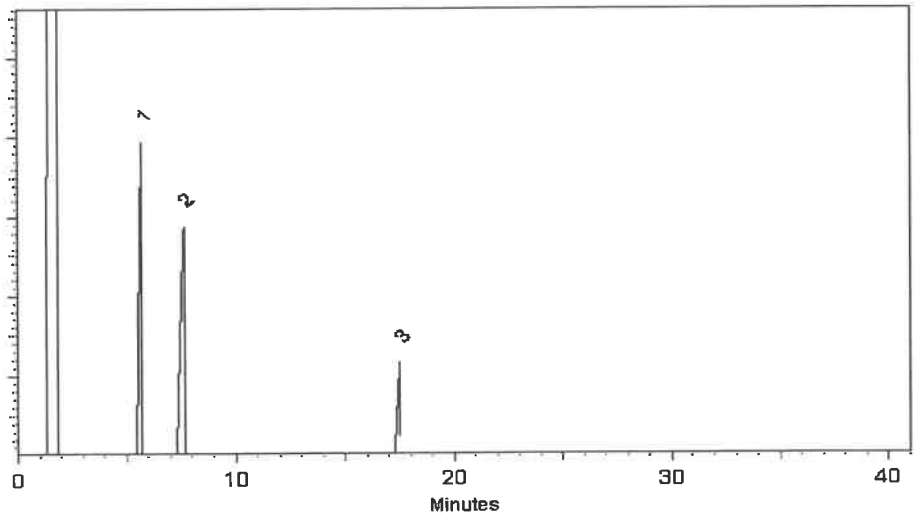
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

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Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

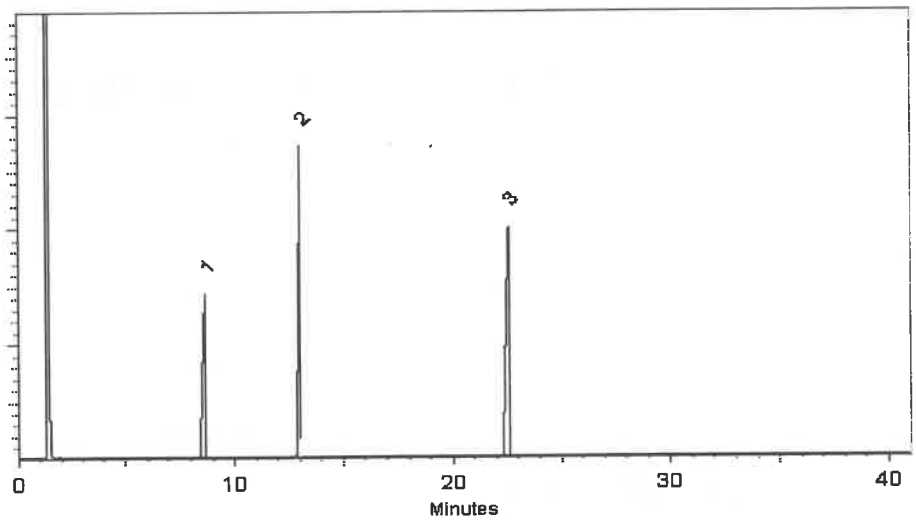
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II **Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ISO/IEC 17025 Accredited
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Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.)

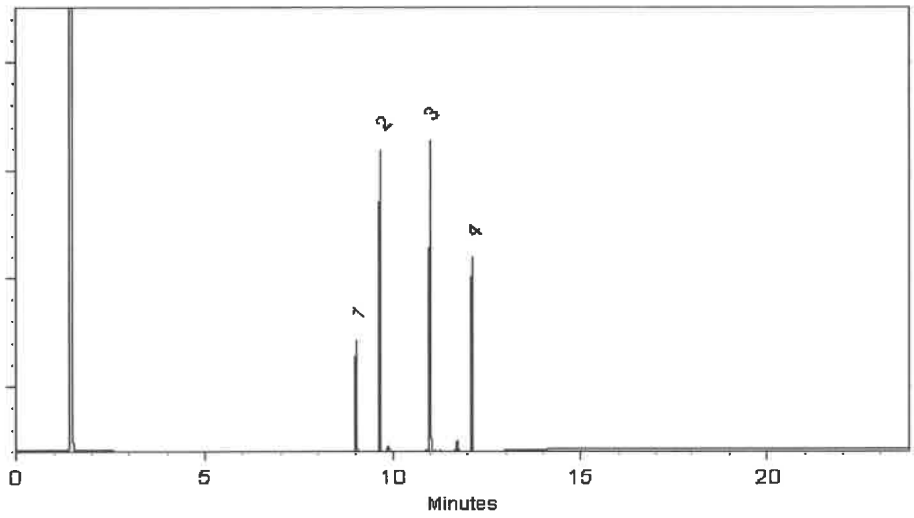
Inj. Temp:
250°C

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~S12280~~ → ~~S12284~~ RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

SHIP TO:
Attn: **Sohil Jodhani**
Alliance Technical Group, LLC - Newark
284 Sheffield St.

Mountainside, NJ 07092 -

Purchase Order # .
Packing Order #: 247813

Order #: **247813**
Order Date: 5/30/2025
Order Time: 4:23:05 PM
Your Account #: **3552**
Sales Person: **Chris Dippold**
Inspected By: **Chris Dippold**

Received on : 6/2/2025.
14:05

PART #	LOT #	DESCRIPTION	Unit Size	QTY
		Quick Turn Around		
38072	062624	PT Semi-Volatiles in Non-Potable Water - CLP	2 mL	1
38073	032124	PT Semi-Volatiles in Non-Potable Water - CLP	2 mL	1
		.		
		FedEX# 2356-974244		

Ship Via: Ground Collect

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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