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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q2082

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q2082

1) SEMI-VOLATILE DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 12

9) QC Data Summary For SVOC-SIMGroup1 13

- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) LCS/LCSD Summary 15
- 9.3) Method Blank Summary 17
- 9.4) GS/MS Tune Summary 18
- 9.5) Internal Standard Area and RT Summary 20

10) Sample Data 22

- 10.0.1) BP-VPB-182-GW-260-262 23
- 10.0.2) BP-VPB-182-GW-300-302 35
- 10.0.3) BP-VPB-182-GW-340-342 48
- 10.0.4) BP-VPB-182-GW-390-392 60

- 10.1) VPB182-HYD-20250516 72

11) Calibration Data Summary 83

- 11.1) Initial Calibration Data 3
  - 11.1.1) BN051425 84
- 11.2) Continued Calibration Data 271
  - 11.2.1) BN037112.D 271
  - 11.2.2) BN037126.D 297

12) QC Sample Data 323

- 12.1) Tune Raw Data 324
- 12.2) Method Blank Data 332
- 12.3) LCS Data 342
- 12.4) LCSD Data 366

13) Manual Integration 390

14) Analytical Runlogs 392

15) Extraction Logs 400

- 15.1) PB168100.pdf 400

15.2) PB168100IC.pdf 402
16) Standard Prep Logs 403
17) Shipping Document 460
17.1) Chain Of Custody 461
17.2) Lab Certificate 462
17.3) Internal COC 463
18) Not Reviewed Data 465

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Cover Page

Order ID : Q2082

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q2082-01	BP-VPB-182-TB-20250515
Q2082-02	BP-VPB-182-GW-260-262
Q2082-03	BP-VPB-182-GW-280-282
Q2082-04	BP-VPB-182-GW-300-302
Q2082-05	BP-VPB-182-GW-320-322
Q2082-06	BP-VPB-182-GW-340-342
Q2082-07	BP-VPB-182-GW-360-362
Q2082-08	BP-VPB-182-GW-390-392
Q2082-09	BP-VPB-182-GW-400-402
Q2082-10	BP-VPB-182-GW-400-402MS
Q2082-11	BP-VPB-182-GW-400-402MSD
Q2082-12	VPB182-HYD-20250516

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: 5/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager # Ernie Wu
Order ID # Q2082
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
12 Water samples were received on 05/19/2025.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for BP-VPB-182-GW-340-342 [Terphenyl-d14 - 142%], BP-VPB-182-GW-390-392 [Terphenyl-d14 - 147%] and VPB182-HYD-20250516 [2-Methylnaphthalene-d10 - 2%, Fluoranthene-d10 - 8%,]
The above failure surrogates are not associated with the client list, therefore no corrective action was taken.

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

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E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data Summary forms (i.e. Form Is)."
Sample # BP-VPB-182-GW-260-262 was received with limited volume.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q2082 MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for BP-VPB-182-GW-340-342 [Terphenyl-d14 - 142%], BP-VPB-182-GW-390-392 [Terphenyl-d14 - 147%] and VPB182-HYD-20250516 [2-Methylnaphthalene-d10 - 2%, Fluoranthene-d10 - 8%,]The above failure surrogates are not associated with the client list, therefore no corrective action was taken.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

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

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

ADDITIONAL COMMENTS:

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

Sample # BP-VPB-182-GW-260-262 was received with limited volume.

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

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

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 #: Q2082

	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:** 05/30/2025

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LAB CHRONICLE

OrderID:	Q2082	**OrderDate:**	5/19/2025 4:13:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2082-02	**BP-VPB-182-GW-260-262**	**Water**			**05/15/25**			**05/19/25**
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	
Q2082-04	**BP-VPB-182-GW-300-302**	**Water**			**05/15/25**			**05/19/25**
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	
Q2082-06	**BP-VPB-182-GW-340-342**	**Water**			**05/16/25**			**05/19/25**
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	
Q2082-08	**BP-VPB-182-GW-390-392**	**Water**			**05/19/25**			**05/19/25**
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	
Q2082-12	**VPB182-HYD-20250516**	**Water**			**05/16/25**			**05/19/25**
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-182-GW-300-302								
Q2082-04	BP-VPB-182-GW-300-30 WATER	1,4-Dioxane	0.230		0.07	0.2	0.2	ug/L
		Total Svoc :			**0.23**			
		Total Concentration:			**0.23**			
Client ID : BP-VPB-182-GW-340-342								
Q2082-06	BP-VPB-182-GW-340-34 WATER	1,4-Dioxane	0.330		0.08	0.24	0.24	ug/L
		Total Svoc :			**0.33**			
		Total Concentration:			**0.33**			
Client ID : BP-VPB-182-GW-390-392								
Q2082-08	BP-VPB-182-GW-390-39 WATER	1,4-Dioxane	0.300		0.07	0.22	0.22	ug/L
		Total Svoc :			**0.30**			
		Total Concentration:			**0.30**			

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168100BL	PB168100BL	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
PB168100BS	PB168100BS	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.28	69		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.37	92		58	132
PB168100BSD	PB168100BSD	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.29	73		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q2082-02	BP-VPB-182-GW-260-262	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.28	71		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q2082-04	BP-VPB-182-GW-300-302	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.26	64		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q2082-06	BP-VPB-182-GW-340-342	2-Methylnaphthalene-d10	0.4	0.28	71		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
Q2082-08	BP-VPB-182-GW-390-392	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
Q2082-12	VPB182-HYD-20250516	2-Methylnaphthalene-d10	0.4	0.0080	2	*	30	150
		Fluoranthene-d10	0.4	0.032	8	*	30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.41	103		53	106
		Terphenyl-d14	0.4	0.46	114		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037124.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168100BS	1,4-Dioxane	0.4	0.28	ug/L	70				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037125.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168100BSD	1,4-Dioxane	0.4	0.29	ug/L	73	4			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168100BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG NO.: Q2082

Lab File ID: BN037113.D Lab Sample ID: PB168100BL

Instrument ID: BNA_N Date Extracted: 05/21/2025

Matrix: (soil/water) Water Date Analyzed: 05/28/2025

Level: (low/med) LOW Time Analyzed: 17:47

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168100BS	PB168100BS	BN037124.D	05/29/2025
BP-VPB-182-GW-260-262	Q2082-02	BN037114.D	05/28/2025
BP-VPB-182-GW-300-302	Q2082-04	BN037115.D	05/28/2025
BP-VPB-182-GW-340-342	Q2082-06	BN037116.D	05/28/2025
PB168100BSD	PB168100BSD	BN037125.D	05/29/2025
BP-VPB-182-GW-390-392	Q2082-08	BN037117.D	05/28/2025
VPB182-HYD-20250516	Q2082-12	BN037118.D	05/28/2025

COMMENTS:

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2082 SDG NO.: Q2082

Lab File ID: BN036998.D DFTPP Injection Date: 05/13/2025

Instrument ID: BNA_N DFTPP Injection Time: 17:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.8
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	55.6
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	52.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.9
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	10.4 (19) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036999.D	05/13/2025	17:41
SSTDICC0.2	SSTDICC0.2	BN037000.D	05/13/2025	18:17
SSTDICCC0.4	SSTDICCC0.4	BN037001.D	05/13/2025	18:53
SSTDICC0.8	SSTDICC0.8	BN037002.D	05/13/2025	19:29
SSTDICC1.6	SSTDICC1.6	BN037003.D	05/13/2025	20:05
SSTDICC3.2	SSTDICC3.2	BN037004.D	05/13/2025	20:41
SSTDICC5.0	SSTDICC5.0	BN037005.D	05/13/2025	21:17

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2082 SDG NO.: Q2082

Lab File ID: BN037111.D DFTPP Injection Date: 05/28/2025

Instrument ID: BNA_N DFTPP Injection Time: 16:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	75.5
68	Less than 2.0% of mass 69	0.9 (1.4) 1
69	Mass 69 relative abundance	62.5
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	56.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.5 (19.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037112.D	05/28/2025	17:11
PB168100BL	PB168100BL	BN037113.D	05/28/2025	17:47
BP-VPB-182-GW-260-262	Q2082-02	BN037114.D	05/28/2025	18:23
BP-VPB-182-GW-300-302	Q2082-04	BN037115.D	05/28/2025	18:59
BP-VPB-182-GW-340-342	Q2082-06	BN037116.D	05/28/2025	19:35
BP-VPB-182-GW-390-392	Q2082-08	BN037117.D	05/28/2025	20:11
VPB182-HYD-20250516	Q2082-12	BN037118.D	05/28/2025	20:47
PB168100BS	PB168100BS	BN037124.D	05/29/2025	00:23
PB168100BSD	PB168100BSD	BN037125.D	05/29/2025	00:59
SSTDCCC0.4EC	SSTDCCC0.4	BN037126.D	05/29/2025	01:35

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG NO.: Q2082

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/28/2025

Lab File ID: BN037112.D Time Analyzed: 17:11

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	2022	7.611	5050	10.38	2480	14.26
	UPPER LIMIT	4044	8.111	10100	10.883	4960	14.756
	LOWER LIMIT	1011	7.111	2525	9.883	1240	13.756
	EPA SAMPLE NO.						
01	PB168100BL	1765	7.61	4396	10.39	2346	14.26
02	BP-VPB-182-GW-260-262	1698	7.61	4547	10.39	2504	14.26
03	PB168100BS	2482	7.61	6249	10.38	2970	14.26
04	PB168100BSD	2246	7.61	5562	10.38	2593	14.26
05	BP-VPB-182-GW-300-302	1749	7.61	4761	10.39	2641	14.26
06	BP-VPB-182-GW-340-342	1870	7.61	4981	10.39	2695	14.26
07	BP-VPB-182-GW-390-392	1975	7.61	5085	10.39	2709	14.26
08	VPB182-HYD-20250516	2059	7.61	5062	10.39	2514	14.26

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG NO.: Q2082

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/28/2025

Lab File ID: BN037112.D Time Analyzed: 17:11

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	4231	17.009	3037	21.198	3091	23.395
	UPPER LIMIT	8462	17.509	6074	21.698	6182	23.895
	LOWER LIMIT	2115.5	16.509	1518.5	20.698	1545.5	22.895
	EPA SAMPLE NO.						
01	PB168100BL	4153	17.01	2590	21.20	2358	23.40
02	BP-VPB-182-GW-260-262	4885	17.01	3172	21.20	2643	23.40
03	PB168100BS	4819	17.01	3074	21.20	3112	23.40
04	PB168100BSD	4050	17.01	2689	21.20	2817	23.39
05	BP-VPB-182-GW-300-302	5103	17.00	3511	21.20	2983	23.40
06	BP-VPB-182-GW-340-342	5234	17.01	3312	21.20	2878	23.40
07	BP-VPB-182-GW-390-392	4782	17.01	3144	21.20	3044	23.40
08	VPB182-HYD-20250516	4253	17.01	3086	21.20	2551	23.40

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	BP-VPB-182-GW-260-262	SDG No.:	Q2082
Lab Sample ID:	Q2082-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	520 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037114.D	1	05/21/25 08:41	05/28/25 18:23	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38	U	0.13	0.38	0.38	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		71%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.611				
1146-65-2	Naphthalene-d8	4550	10.394				
15067-26-2	Acenaphthene-d10	2500	14.256				
1517-22-2	Phenanthrene-d10	4890	17.009				
1719-03-5	Chrysene-d12	3170	21.198				
1520-96-3	Perylene-d12	2640	23.398				

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\BN052825\
Data File : BN037114.D
Acq On : 28 May 2025 18:23
Operator : RC/JU
Sample : Q2082-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Quant Time: May 28 18:56:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

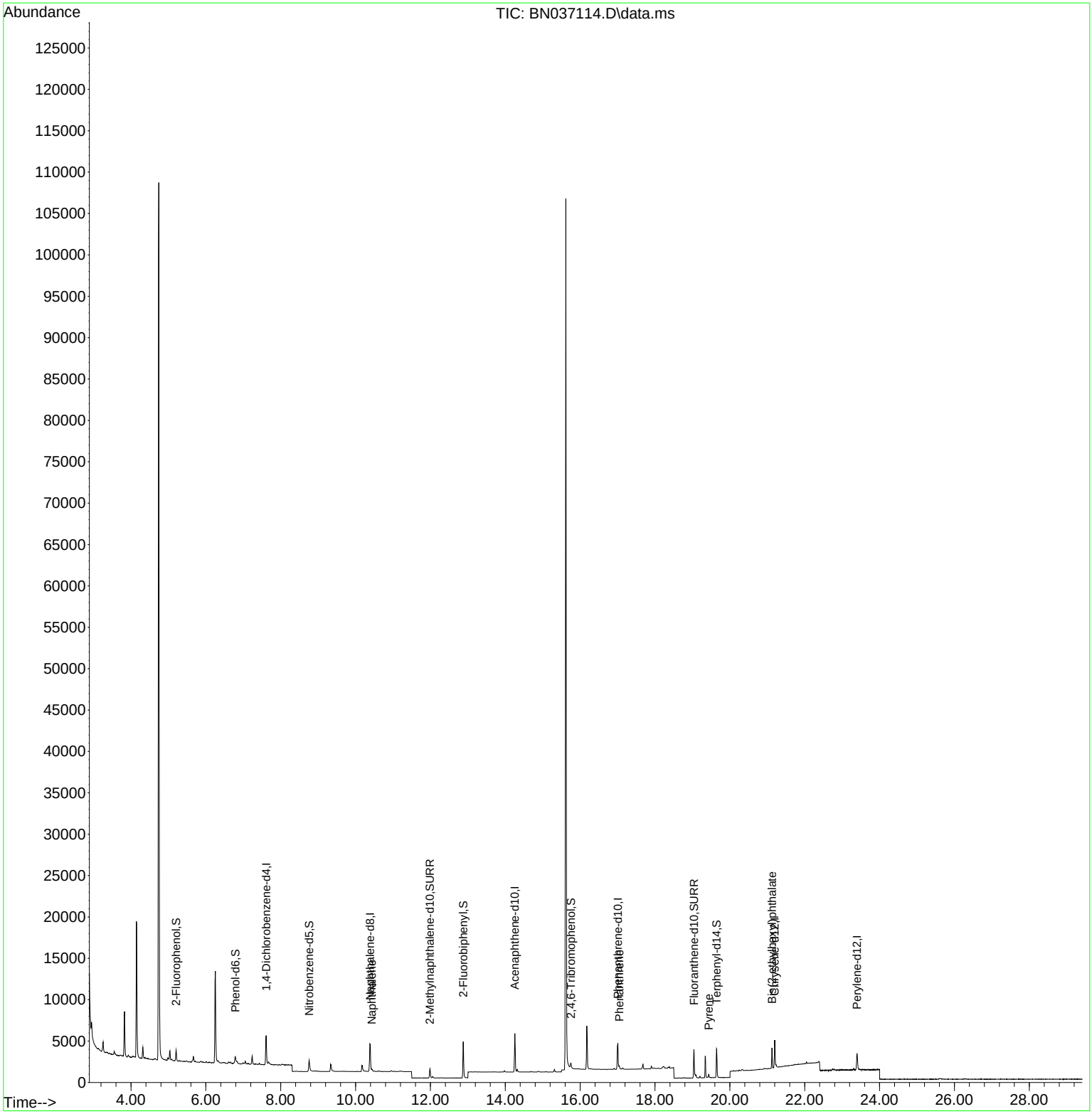
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1698	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4547	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2504	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4885	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3172	0.400	ng	0.00
35) Perylene-d12	23.398	264	2643	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	829	0.186	ng	0.00
5) Phenol-d6	6.788	99	720	0.129	ng	0.00
8) Nitrobenzene-d5	8.760	82	1238	0.250	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	1631	0.255	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	389	0.354	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	3942	0.344	ng	-0.01
27) Fluoranthene-d10	19.040	212	3792	0.283	ng	0.00
31) Terphenyl-d14	19.644	244	3379	0.498	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.436	128	337	0.025	ng	# 63
25) Phenanthrene	17.046	178	393	0.025	ng	# 94
30) Pyrene	19.435	202	348	0.026	ng	97
34) Bis(2-ethylhexyl)phtha...	21.126	149	2004	0.273	ng	# 98

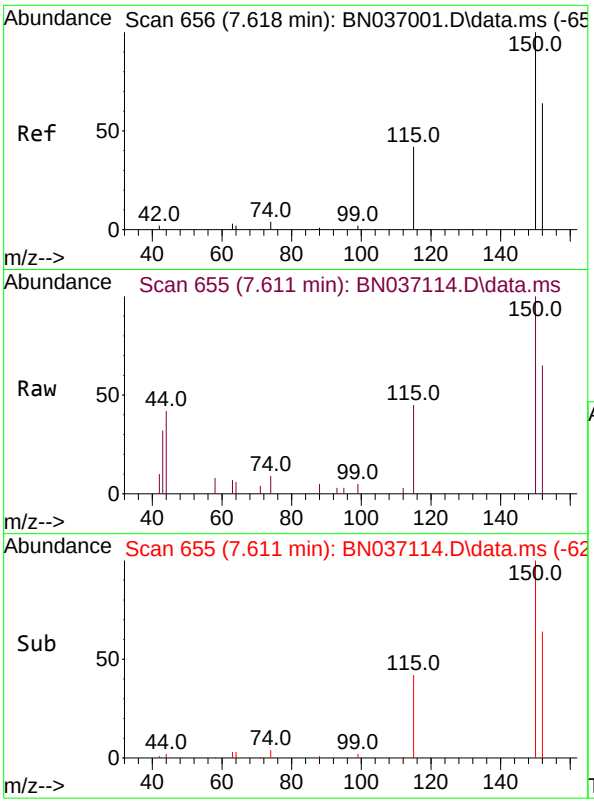
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037114.D
Acq On : 28 May 2025 18:23
Operator : RC/JU
Sample : Q2082-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Quant Time: May 28 18:56:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



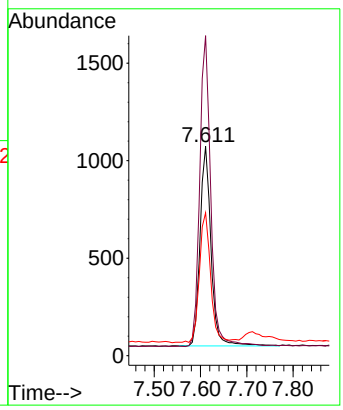


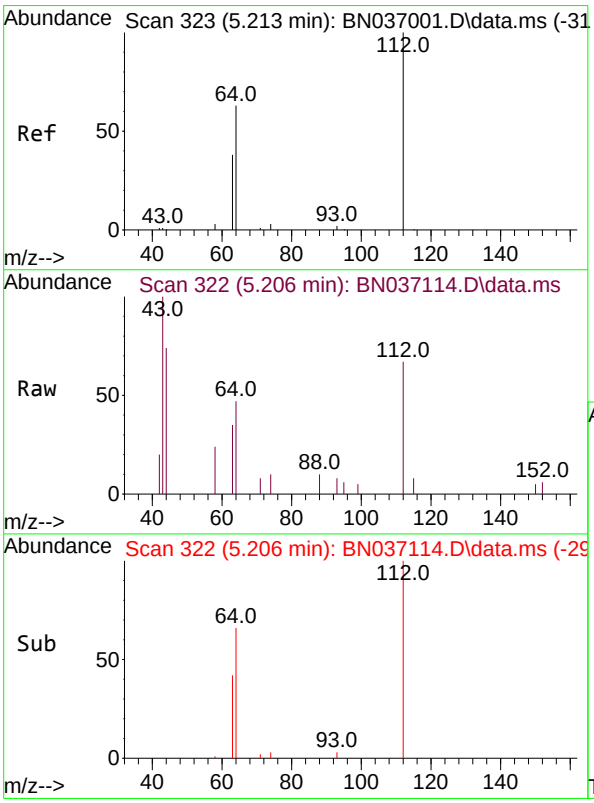
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion:152 Resp: 1698

Ion	Ratio	Lower	Upper
152	100		
150	152.9	123.9	185.9
115	68.3	55.8	83.8

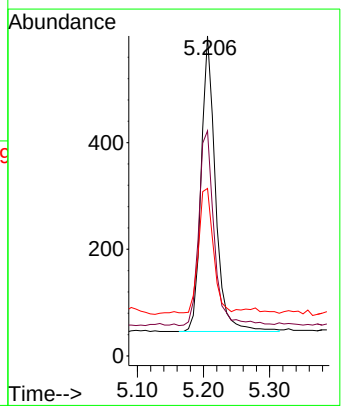


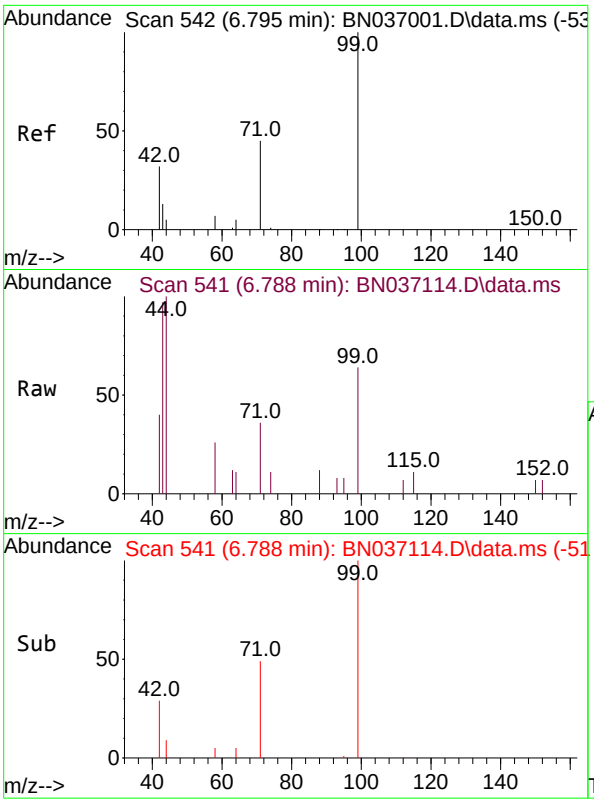


#4
2-Fluorophenol
Concen: 0.186 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:112 Resp: 829

Ion	Ratio	Lower	Upper
112	100		
64	71.2	55.7	83.5
63	43.5	34.6	51.8



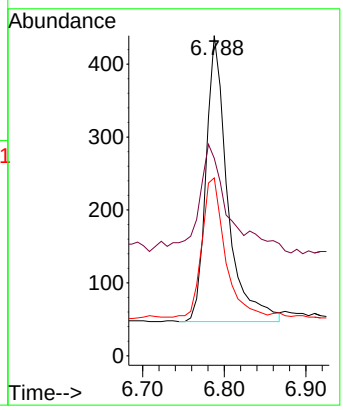


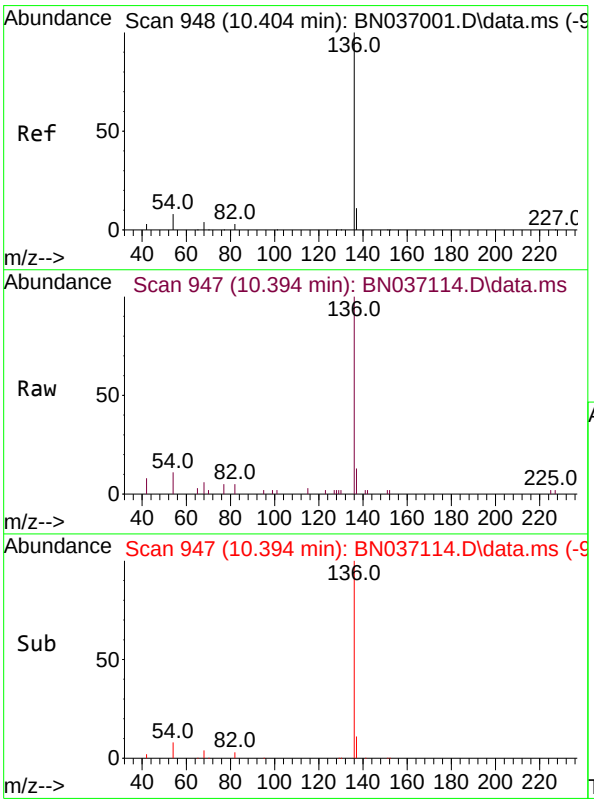
#5
Phenol-d6
Concen: 0.129 ng
RT: 6.788 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion: 99 Resp: 720

Ion	Ratio	Lower	Upper
99	100		
42	50.6	29.3	43.9#
71	51.9	35.7	53.5

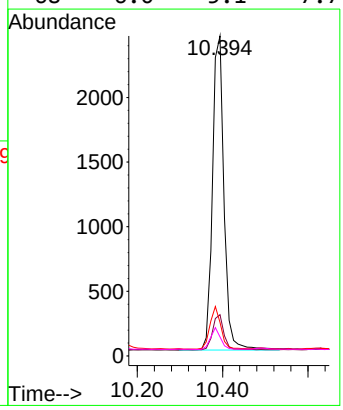


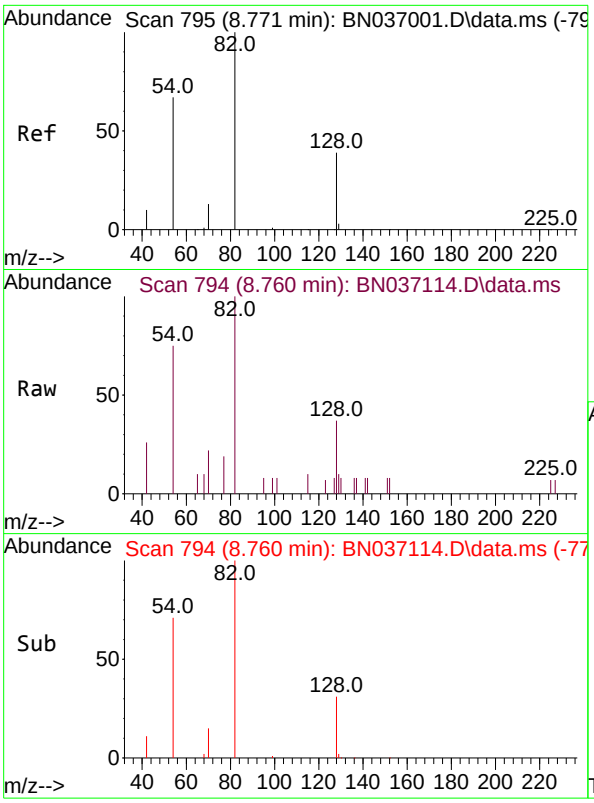


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:136 Resp: 4547

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	10.5	8.5	12.7
68	6.0	5.1	7.7



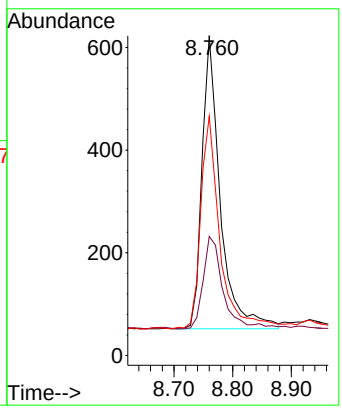


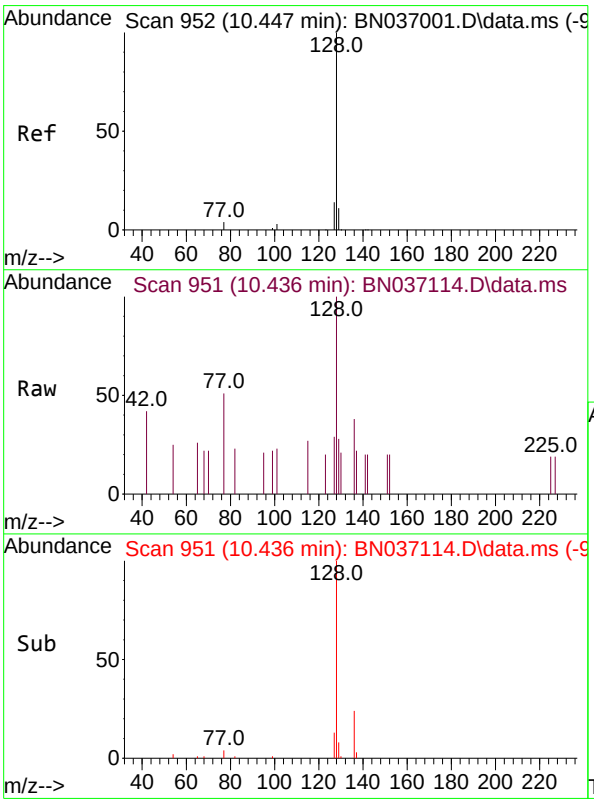
#8
Nitrobenzene-d5
Concen: 0.250 ng
RT: 8.760 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion: 82 Resp: 1238

Ion	Ratio	Lower	Upper
82	100		
128	37.2	34.0	51.0
54	74.8	55.0	82.4

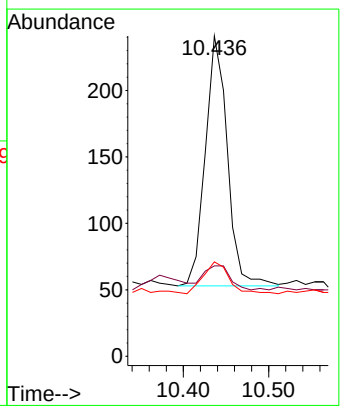


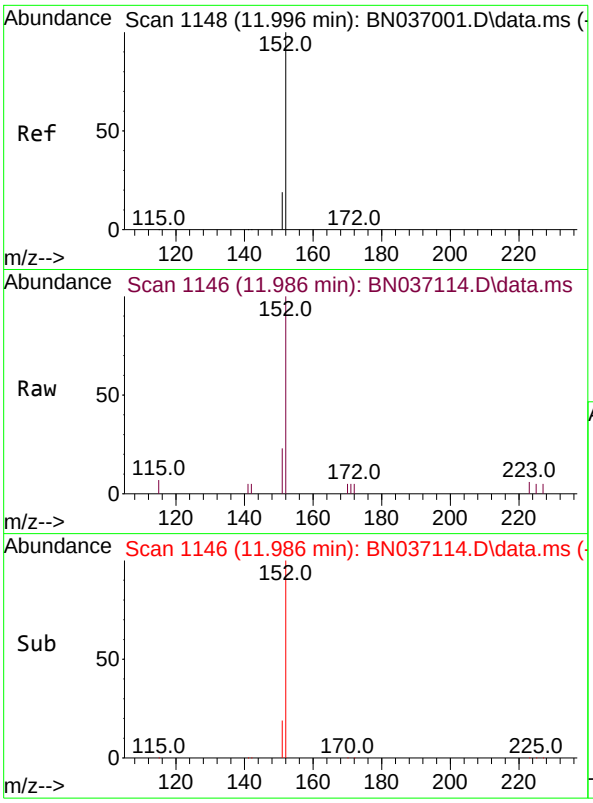


#9
Naphthalene
Concen: 0.025 ng
RT: 10.436 min Scan# 951
Delta R.T. -0.011 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:128 Resp: 337

Ion	Ratio	Lower	Upper
128	100		
129	28.2	9.7	14.5#
127	29.5	12.4	18.6#



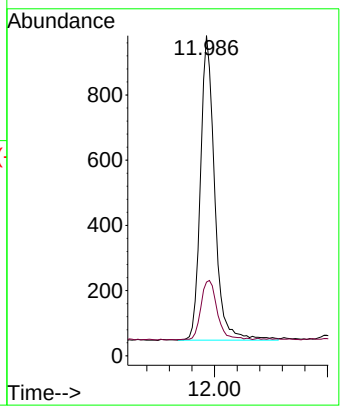


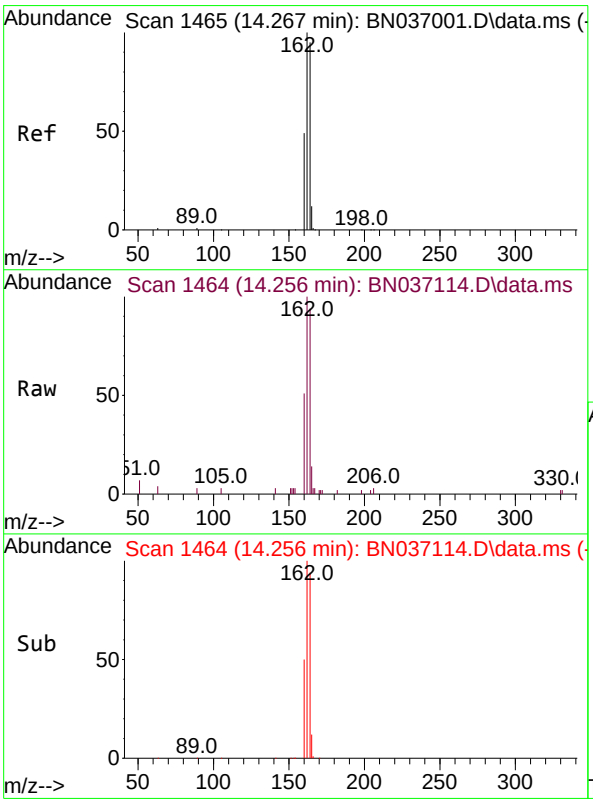
#11
2-Methylnaphthalene-d10
Concen: 0.255 ng
RT: 11.986 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion:152 Resp: 1631

Ion	Ratio	Lower	Upper
152	100		
151	22.4	17.5	26.3

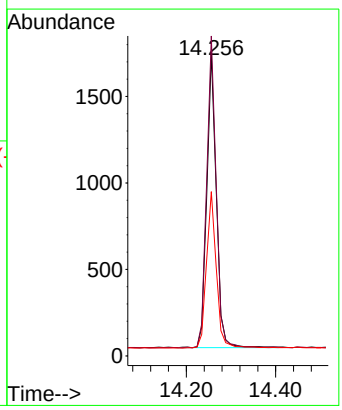


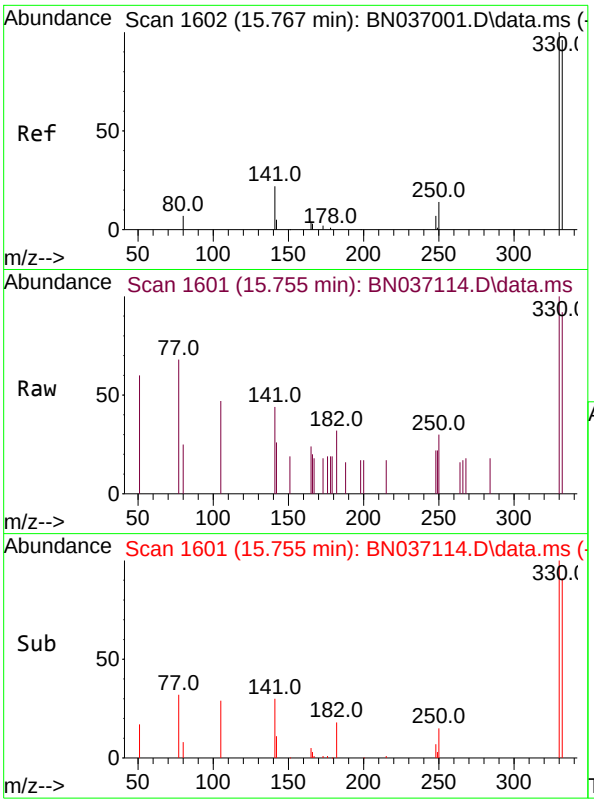


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:164 Resp: 2504

Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.2	126.4
160	54.3	42.6	63.8



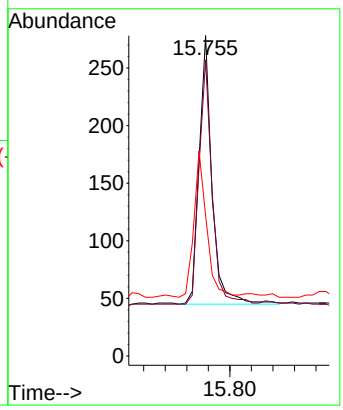


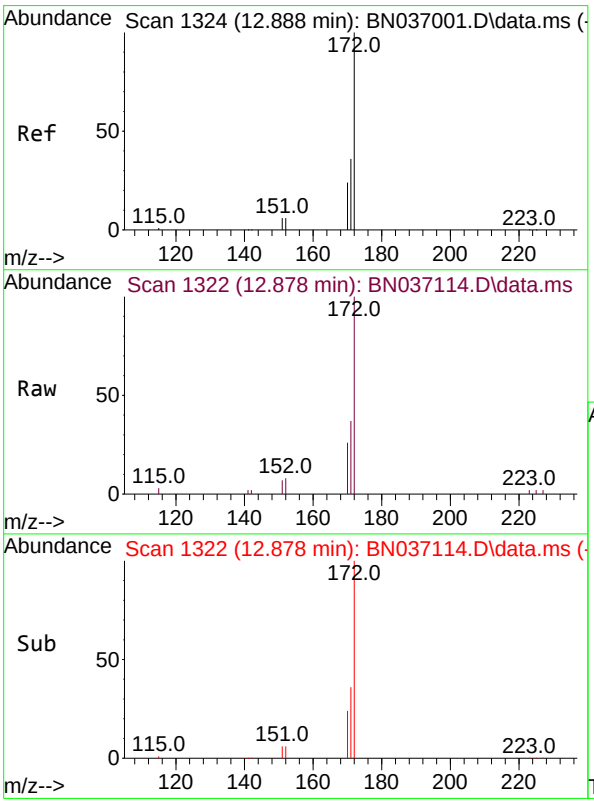
#14
2,4,6-Tribromophenol
Concen: 0.354 ng
RT: 15.755 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion:330 Resp: 389

Ion	Ratio	Lower	Upper
330	100		
332	91.3	73.8	110.8
141	55.0	43.9	65.9

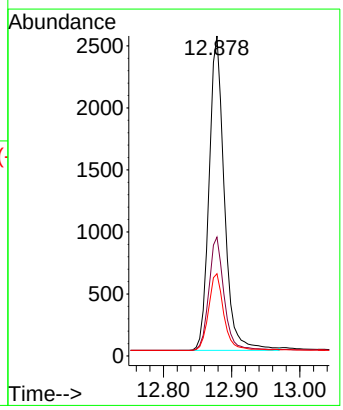


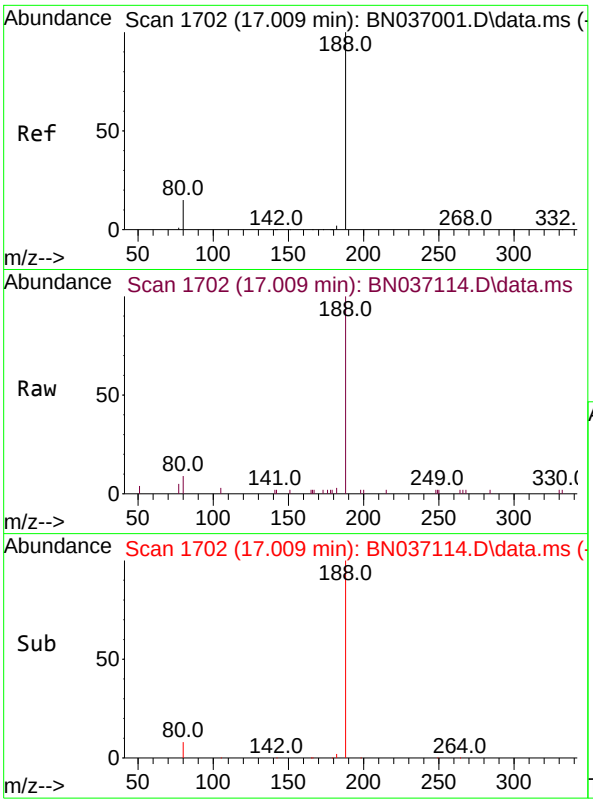


#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.878 min Scan# 1322
Delta R.T. -0.010 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:172 Resp: 3942

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.2	43.8
170	25.7	20.5	30.7



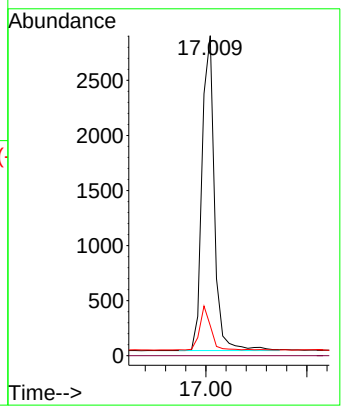


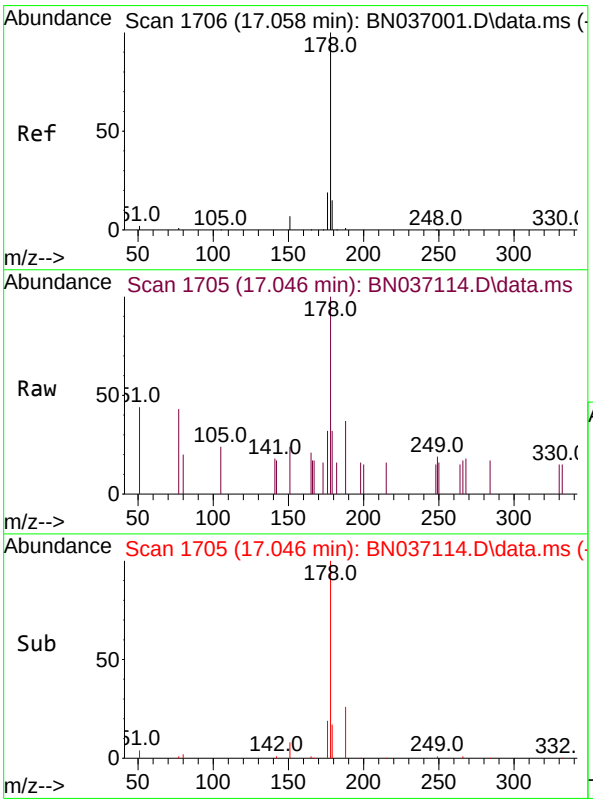
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion:188 Resp: 4885

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.4	13.4	20.0#

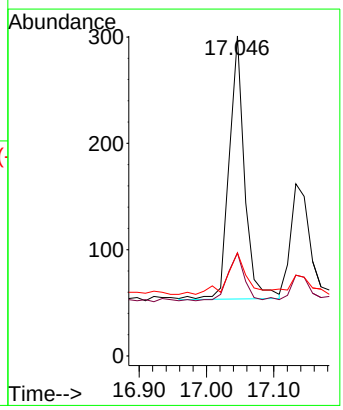


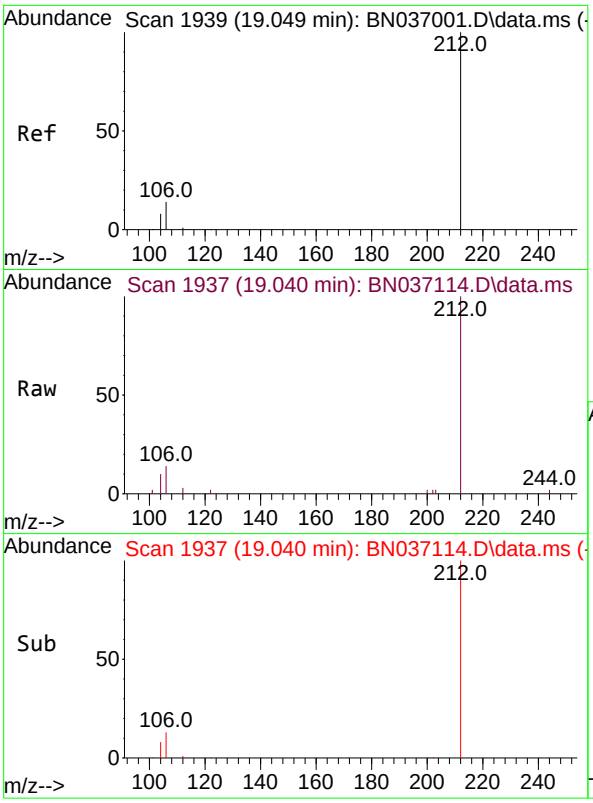


#25
Phenanthrene
Concen: 0.025 ng
RT: 17.046 min Scan# 1705
Delta R.T. -0.012 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:178 Resp: 393

Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.7	23.5
179	20.4	12.2	18.2#



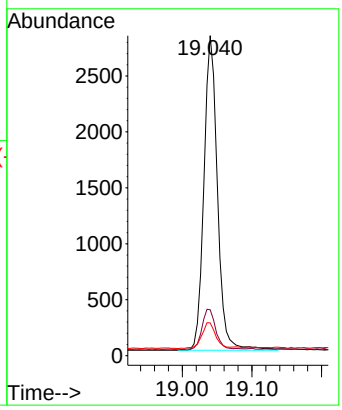


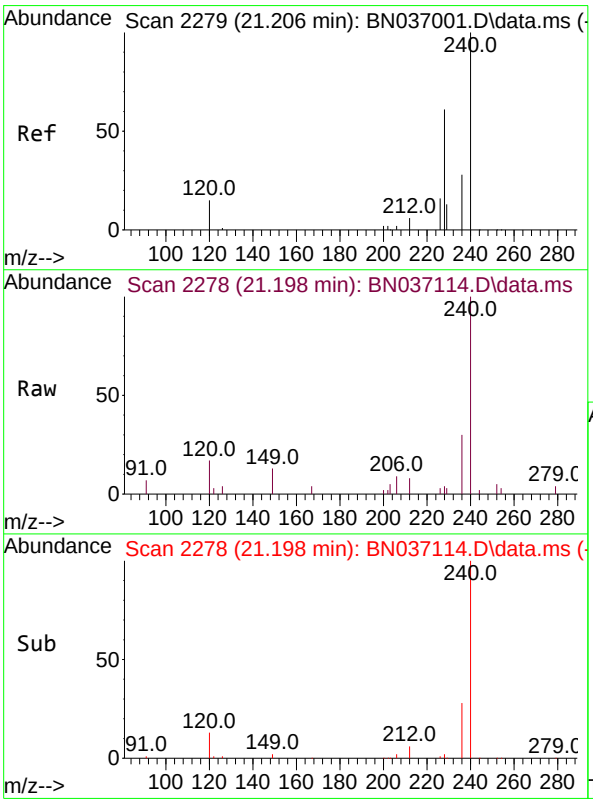
#27
Fluoranthene-d10
Concen: 0.283 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion:212 Resp: 3792

Ion	Ratio	Lower	Upper
212	100		
106	13.1	11.3	16.9
104	8.6	6.7	10.1

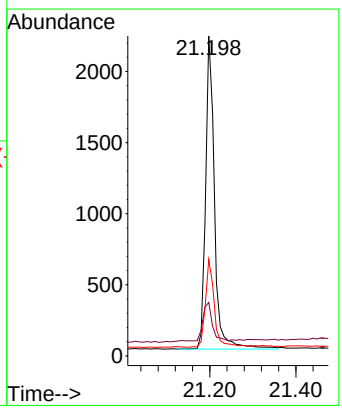


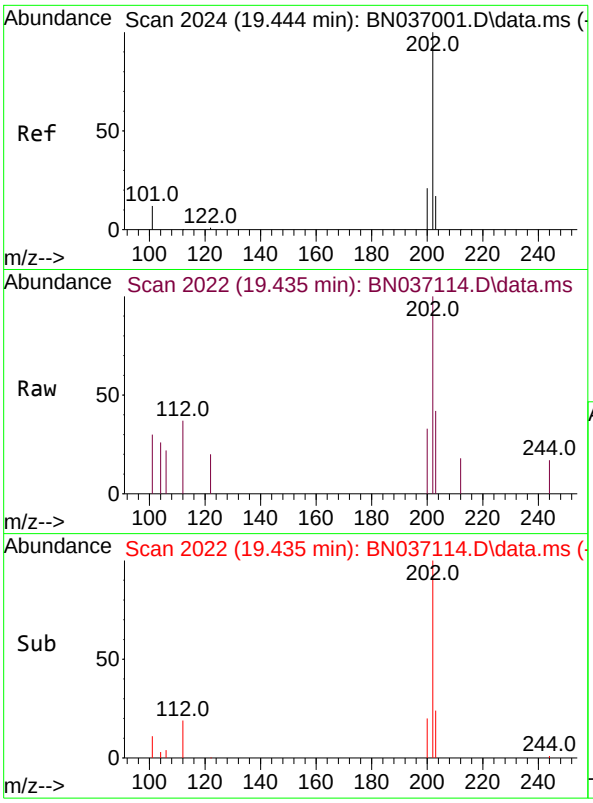


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:240 Resp: 3172

Ion	Ratio	Lower	Upper
240	100		
120	16.8	15.1	22.7
236	30.1	24.0	36.0



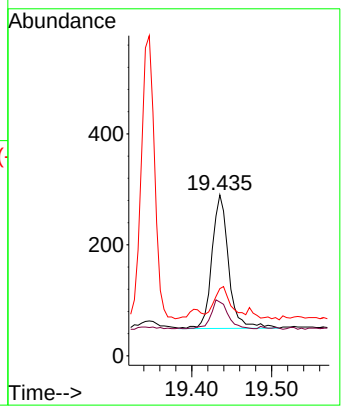


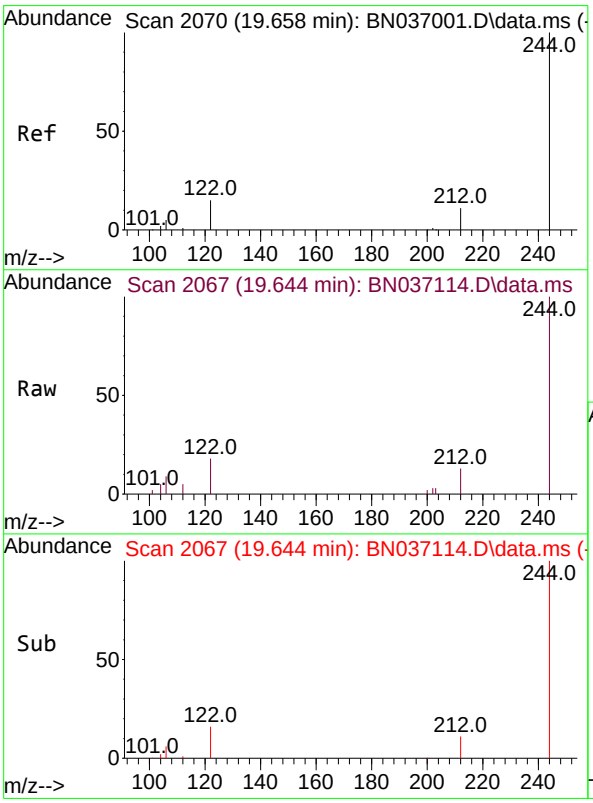
#30
Pyrene
Concen: 0.026 ng
RT: 19.435 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion:202 Resp: 348

Ion	Ratio	Lower	Upper
202	100		
200	23.0	17.1	25.7
203	19.3	14.2	21.4

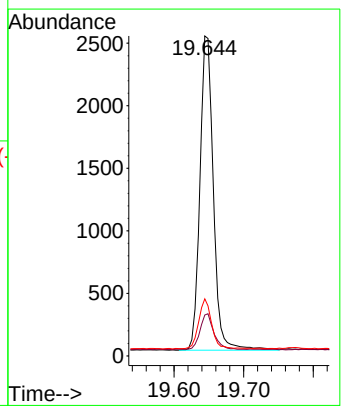


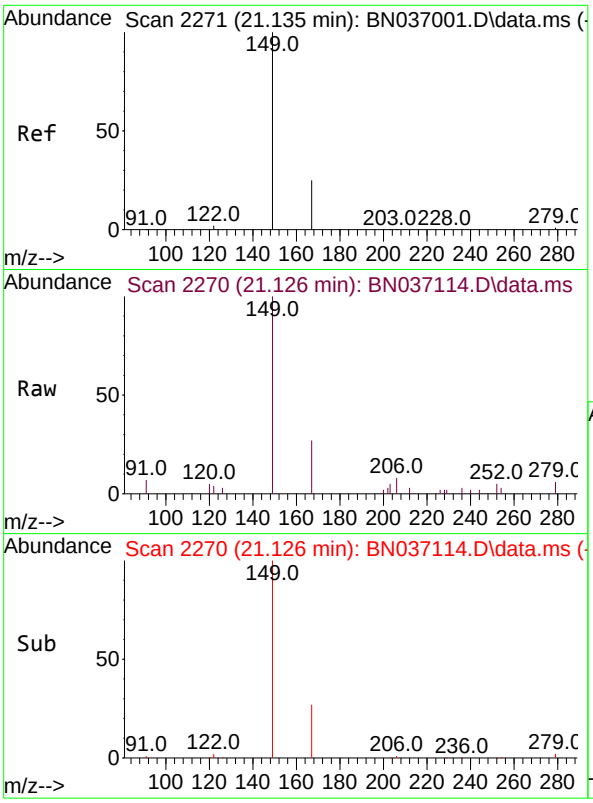


#31
Terphenyl-d14
Concen: 0.498 ng
RT: 19.644 min Scan# 2067
Delta R.T. -0.014 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:244 Resp: 3379

Ion	Ratio	Lower	Upper
244	100		
212	12.8	9.7	14.5
122	17.8	13.4	20.0



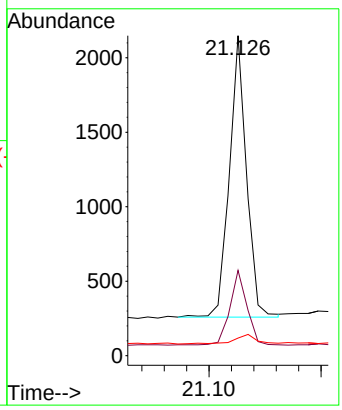


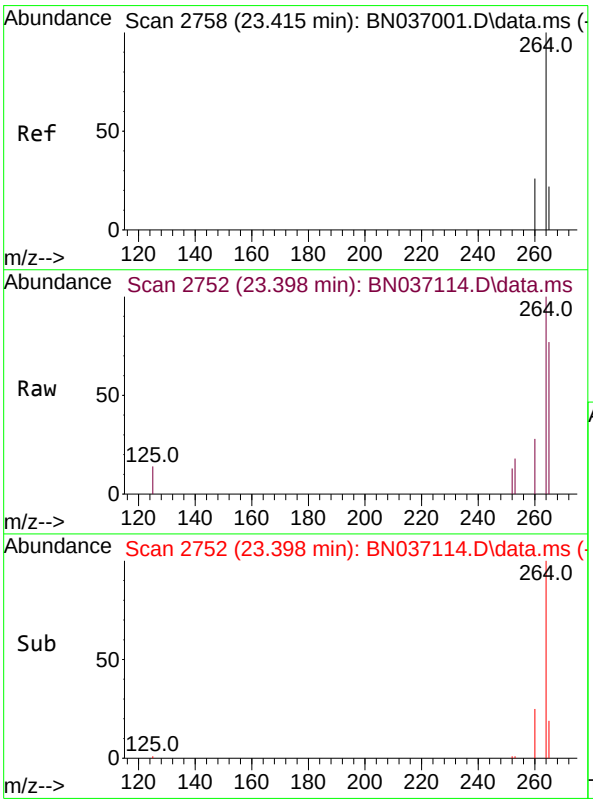
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.273 ng
RT: 21.126 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-260-262

Tgt Ion:149 Resp: 2004

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.6	30.8
279	4.3	2.6	3.8#

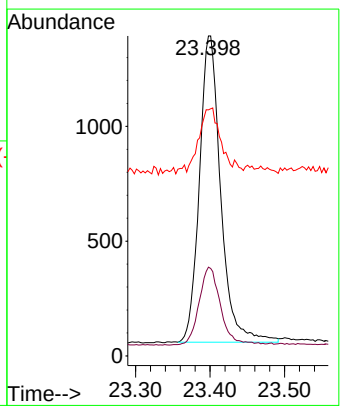




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.398 min Scan# 2752
Delta R.T. -0.017 min
Lab File: BN037114.D
Acq: 28 May 2025 18:23

Tgt Ion:264 Resp: 2643

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.9	32.9
265	76.9	51.6	77.4



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	BP-VPB-182-GW-300-302	SDG No.:	Q2082
Lab Sample ID:	Q2082-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037115.D	1	05/21/25 08:41	05/28/25 18:59	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.23		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		64%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1750	7.611				
1146-65-2	Naphthalene-d8	4760	10.394				
15067-26-2	Acenaphthene-d10	2640	14.256				
1517-22-2	Phenanthrene-d10	5100	16.996				
1719-03-5	Chrysene-d12	3510	21.198				
1520-96-3	Perylene-d12	2980	23.398				

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\BN052825\
Data File : BN037115.D
Acq On : 28 May 2025 18:59
Operator : RC/JU
Sample : Q2082-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 29 01:32:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1749	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4761	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2641	0.400	ng	-0.01
19) Phenanthrene-d10	16.996	188	5103	0.400	ng	-0.01
29) Chrysene-d12	21.198	240	3511	0.400	ng	# 0.00
35) Perylene-d12	23.398	264	2983	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	554	0.121	ng	0.00
5) Phenol-d6	6.788	99	415	0.072	ng	0.00
8) Nitrobenzene-d5	8.760	82	1335	0.258	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	1713	0.256	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	416	0.359	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	3978	0.329	ng	0.00
27) Fluoranthene-d10	19.040	212	4536	0.324	ng	0.00
31) Terphenyl-d14	19.644	244	3979	0.530	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.133	88	478	0.223	ng	# 62
9) Naphthalene	10.436	128	367	0.026	ng	# 65
25) Phenanthrene	17.046	178	406m	0.024	ng	
30) Pyrene	19.435	202	371	0.025	ng	# 59
34) Bis(2-ethylhexyl)phtha...	21.126	149	393	0.048	ng	# 91

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

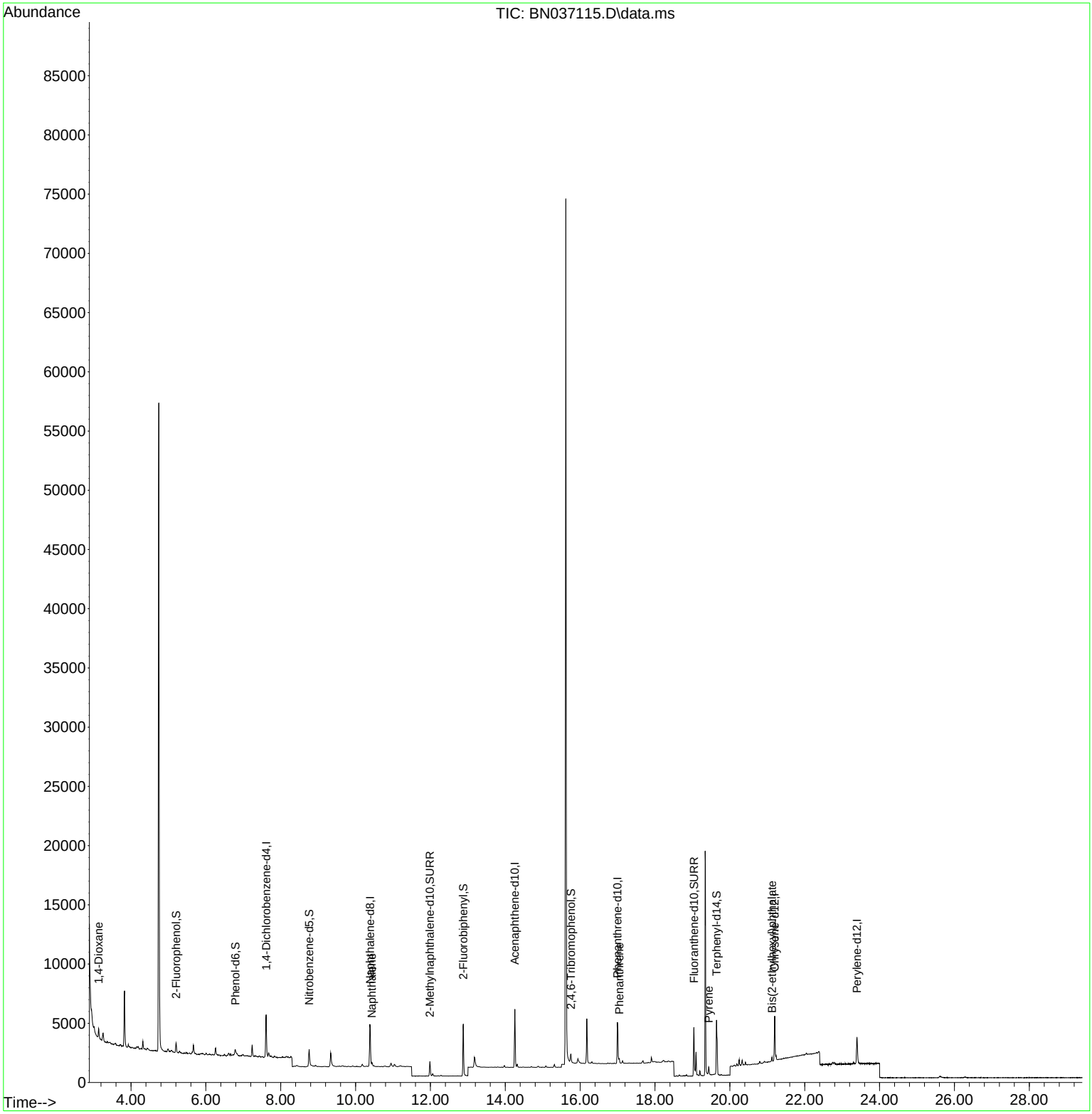
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Data File : BN037115.D
Acq On : 28 May 2025 18:59
Operator : RC/JU
Sample : Q2082-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

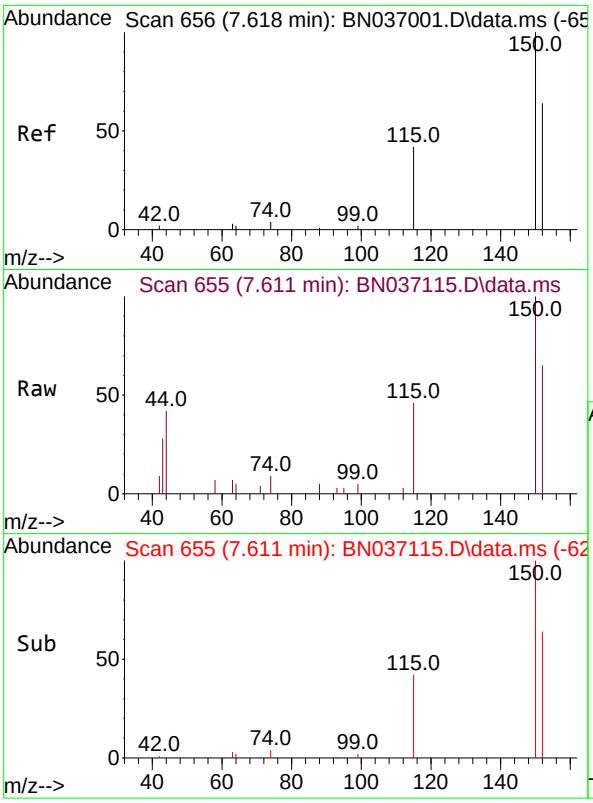
Quant Time: May 29 01:32:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations APPROVED

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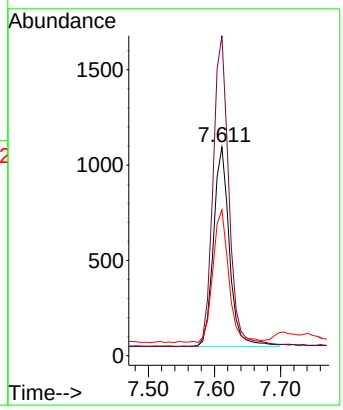




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:152 Resp: 174

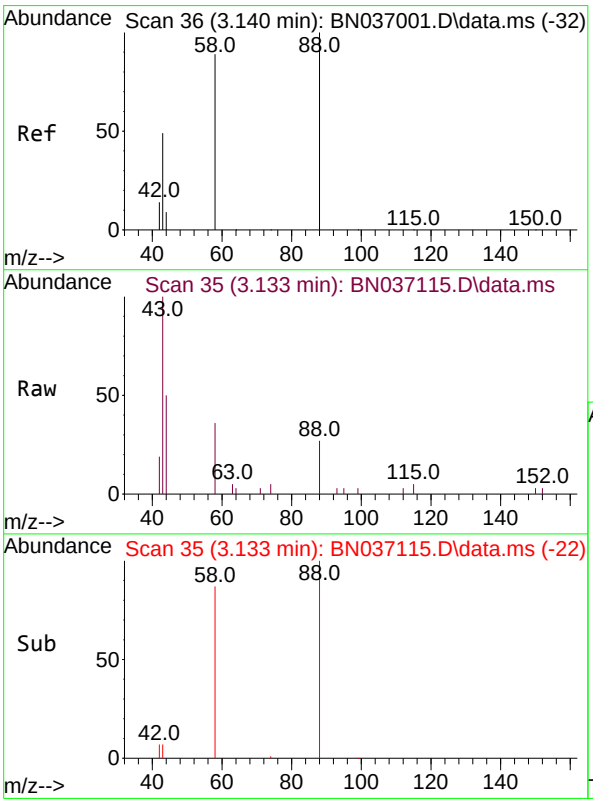
Ion	Ratio	Lower	Upper
152	100		
150	153.5	123.9	185.9
115	69.9	55.8	83.8



Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

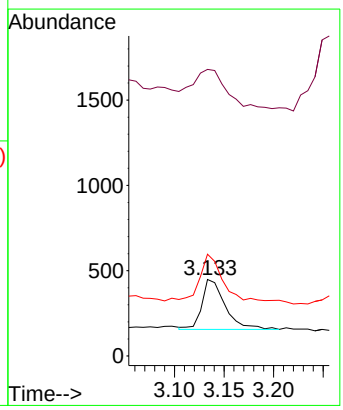
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

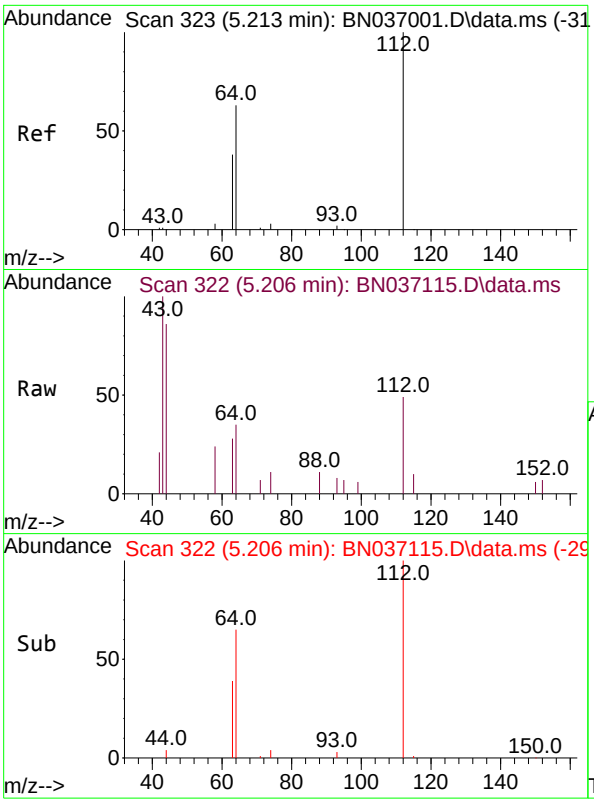


#2
1,4-Dioxane
Concen: 0.223 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion: 88 Resp: 478

Ion	Ratio	Lower	Upper
88	100		
43	114.9	37.4	56.0#
58	88.5	68.8	103.2





#4
2-Fluorophenol
Concen: 0.121 ng
RT: 5.206 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

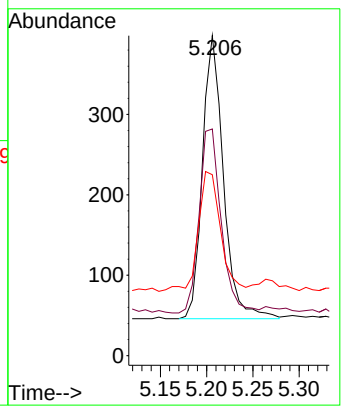
Tgt Ion:112 Resp: 554

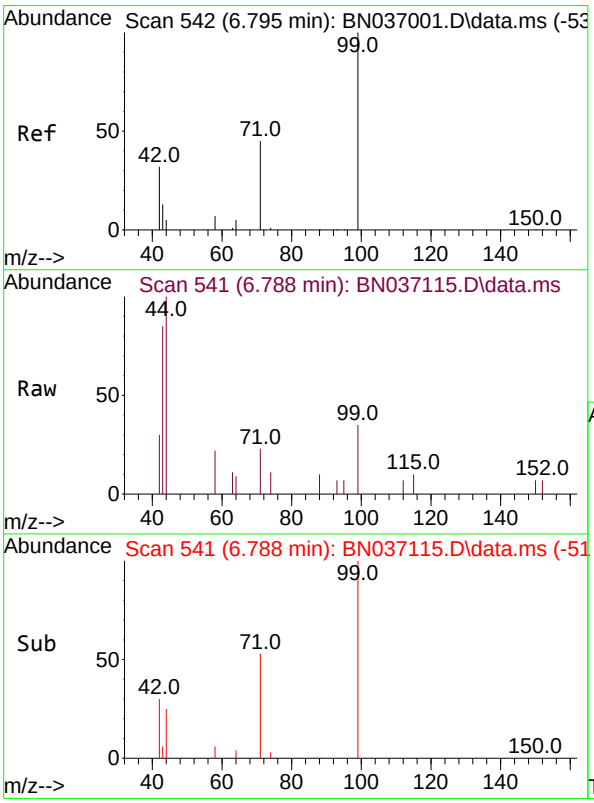
Ion	Ratio	Lower	Upper
112	100		
64	68.4	55.7	83.5
63	46.4	34.6	51.8

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

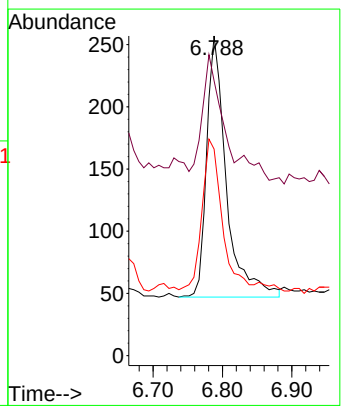


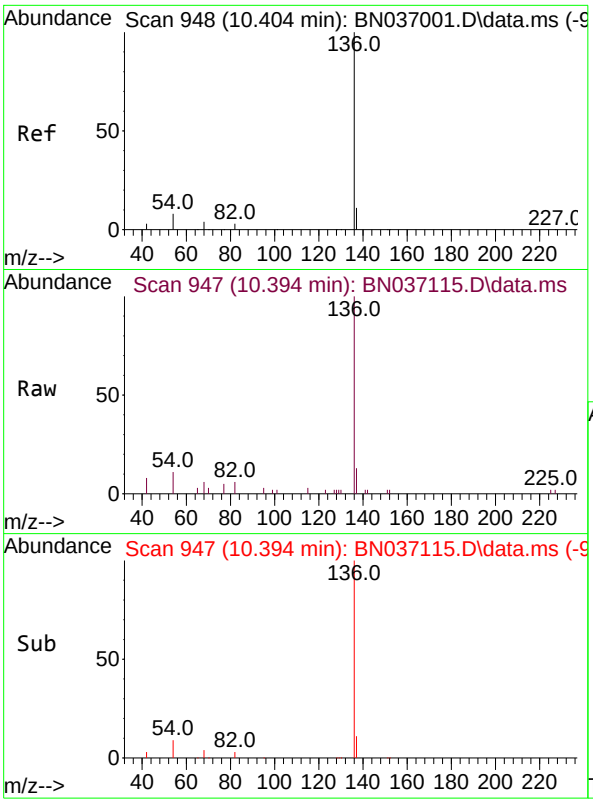


#5
Phenol-d6
Concen: 0.072 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion: 99 Resp: 415

Ion	Ratio	Lower	Upper
99	100		
42	40.2	29.3	43.9
71	57.6	35.7	53.5#

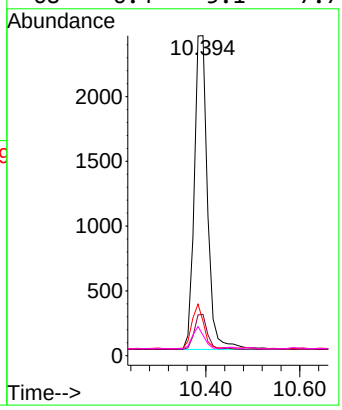




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:136 Resp: 476

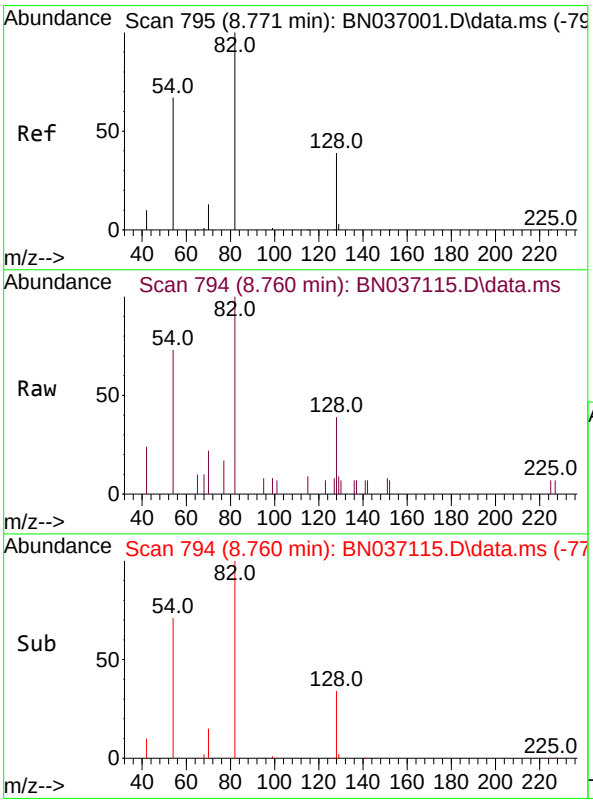
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	10.8	8.5	12.7
68	6.4	5.1	7.7



Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

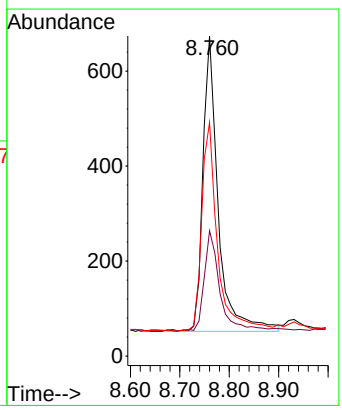
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

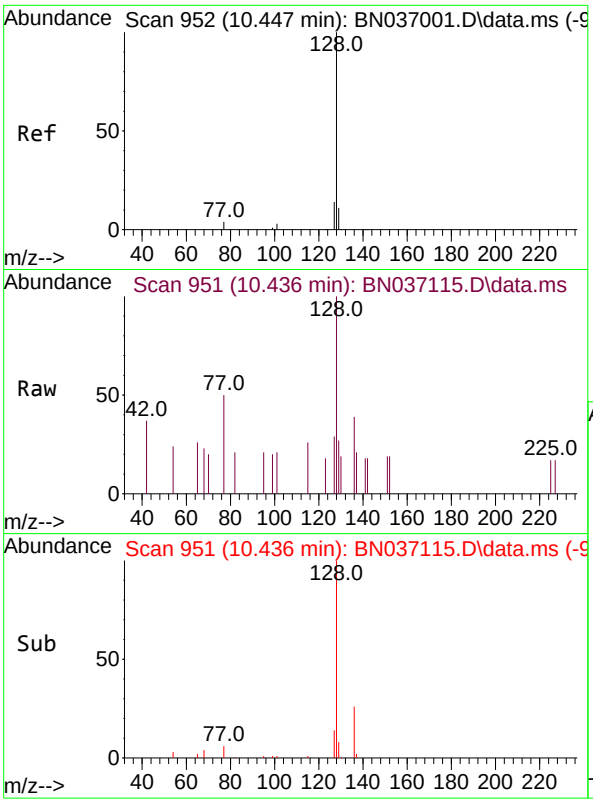


#8
Nitrobenzene-d5
Concen: 0.258 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion: 82 Resp: 1335

Ion	Ratio	Lower	Upper
82	100		
128	39.2	34.0	51.0
54	73.0	55.0	82.4

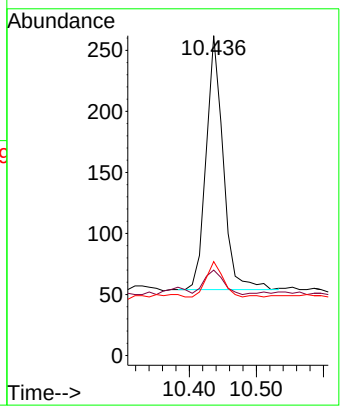




#9
Naphthalene
Concen: 0.026 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:128 Resp: 36

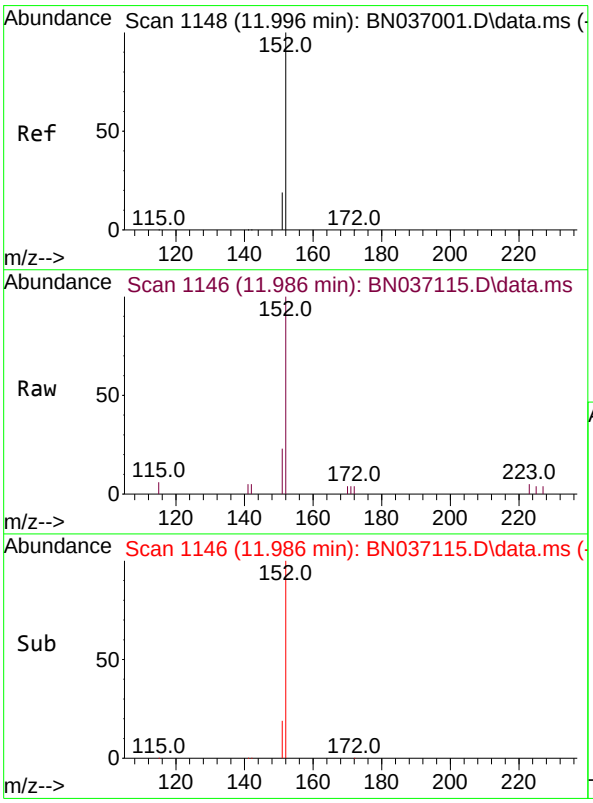
Ion	Ratio	Lower	Upper
128	100		
129	26.7	9.7	14.5#
127	29.4	12.4	18.6#



Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

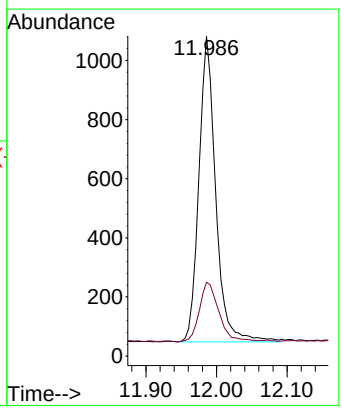
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

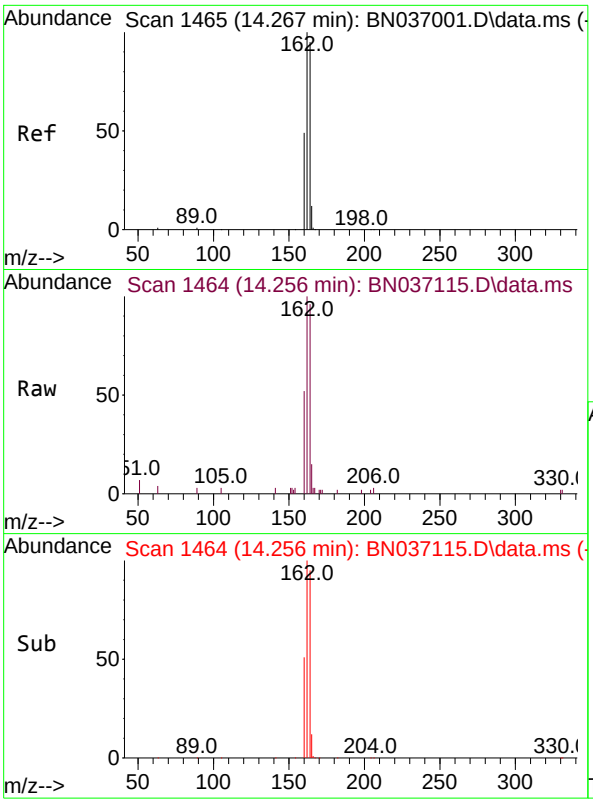


#11
2-Methylnaphthalene-d10
Concen: 0.256 ng
RT: 11.986 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:152 Resp: 1713

Ion	Ratio	Lower	Upper
152	100		
151	22.8	17.5	26.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

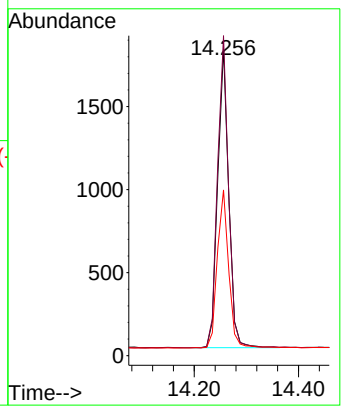
Tgt Ion:164 Resp: 264

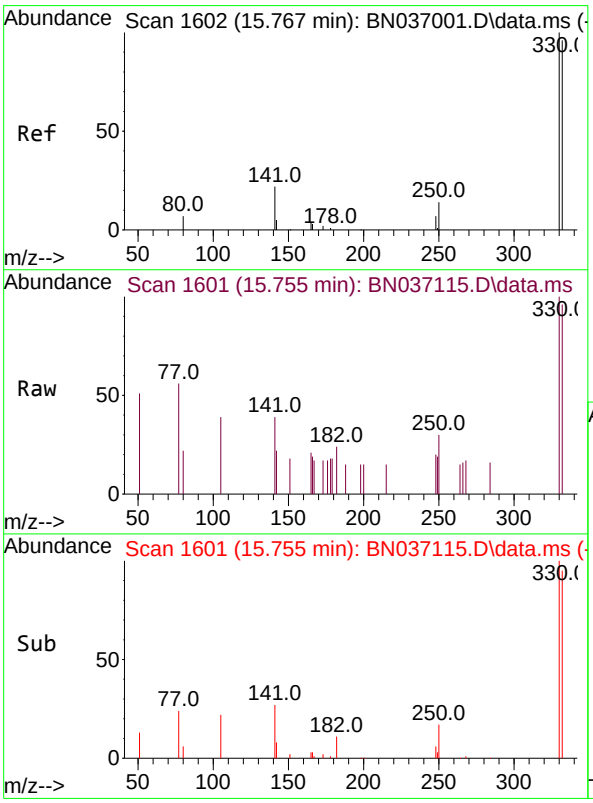
Ion	Ratio	Lower	Upper
164	100		
162	104.2	84.2	126.4
160	54.0	42.6	63.8

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

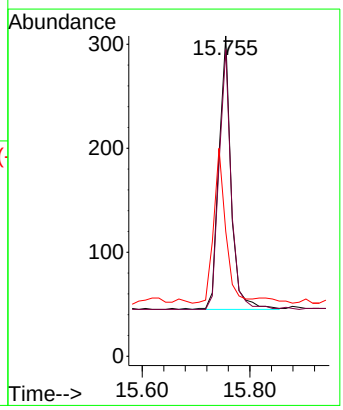


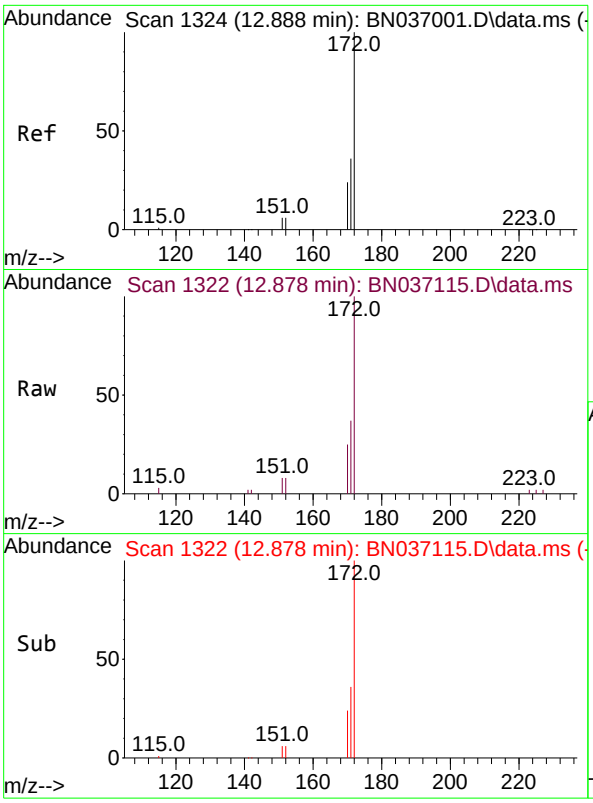


#14
2,4,6-Tribromophenol
Concen: 0.359 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:330 Resp: 416

Ion	Ratio	Lower	Upper
330	100		
332	94.5	73.8	110.8
141	56.3	43.9	65.9

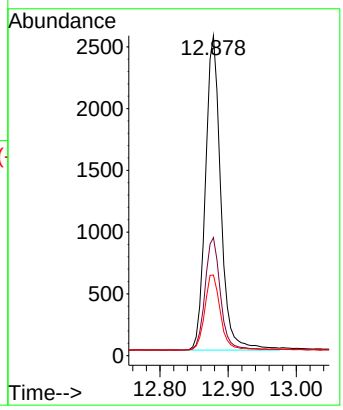




#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.878 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:172 Resp: 397

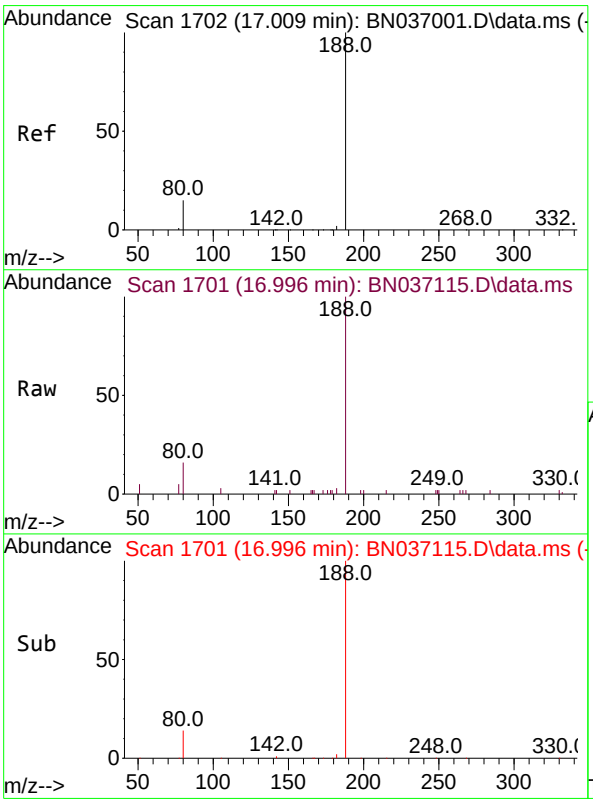
Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.2	43.8
170	25.2	20.5	30.7



Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

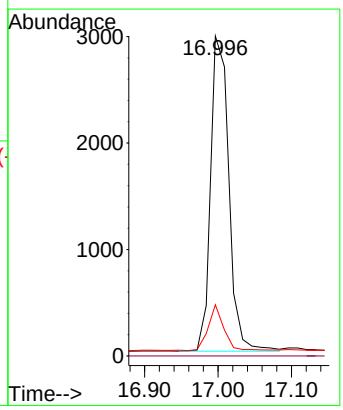
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

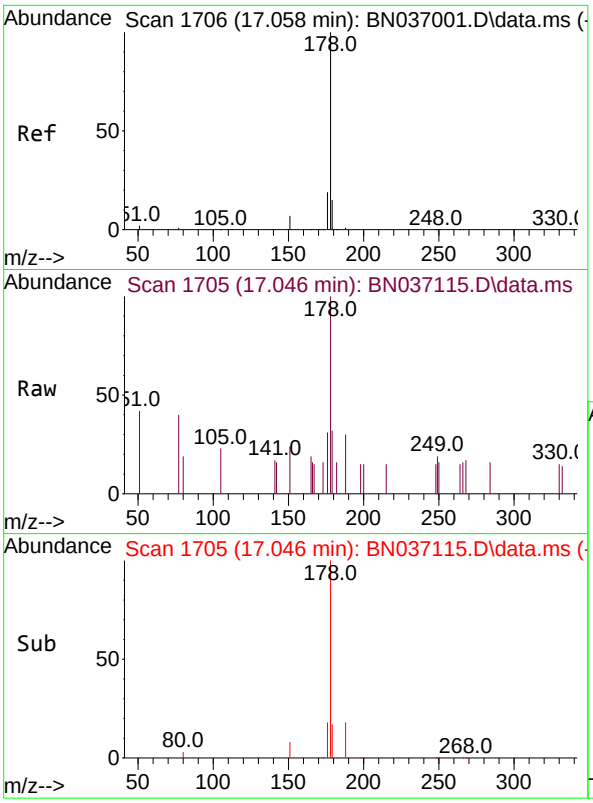


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.996 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:188 Resp: 5103

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.0	13.4	20.0

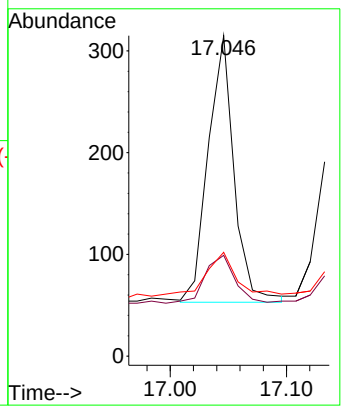




#25
Phenanthrene
Concen: 0.024 ng m
RT: 17.046 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:178 Resp: 40

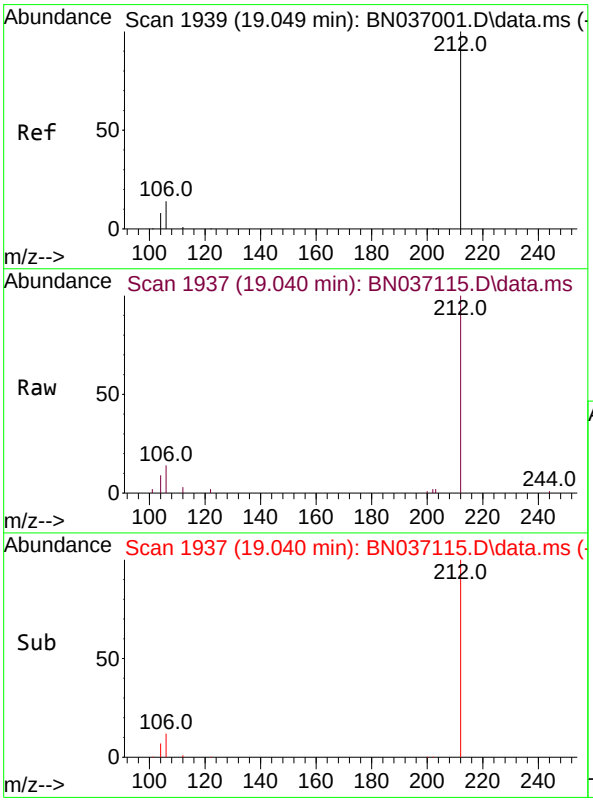
Ion	Ratio	Lower	Upper
178	100		
176	11.1	15.7	23.5#
179	8.6	12.2	18.2#



Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

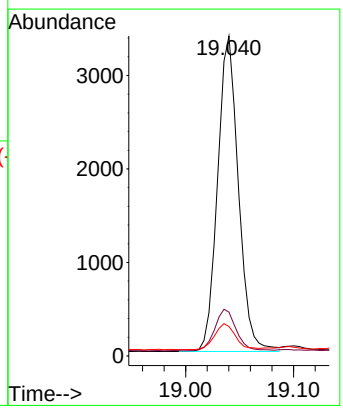
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

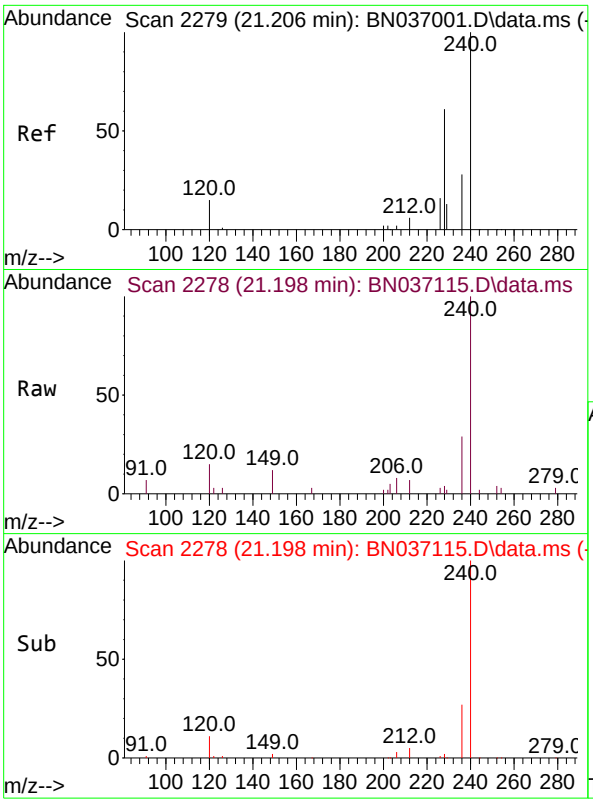


#27
Fluoranthene-d10
Concen: 0.324 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.009 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:212 Resp: 4536

Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.3	16.9
104	8.2	6.7	10.1

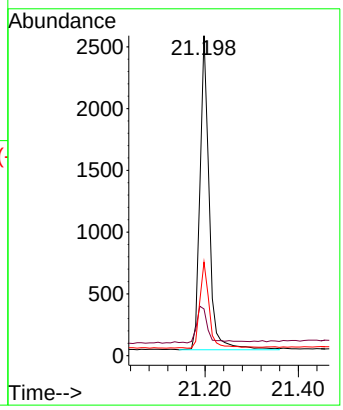




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:240 Resp: 351

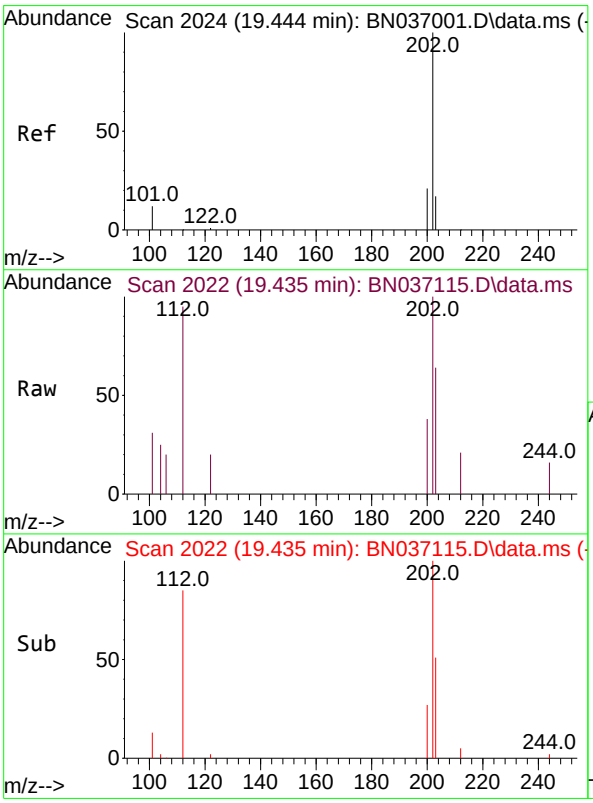
Ion	Ratio	Lower	Upper
240	100		
120	14.6	15.1	22.7#
236	29.2	24.0	36.0



Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

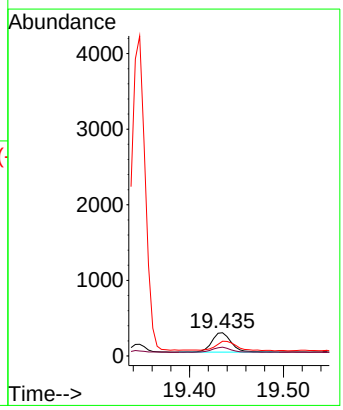
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

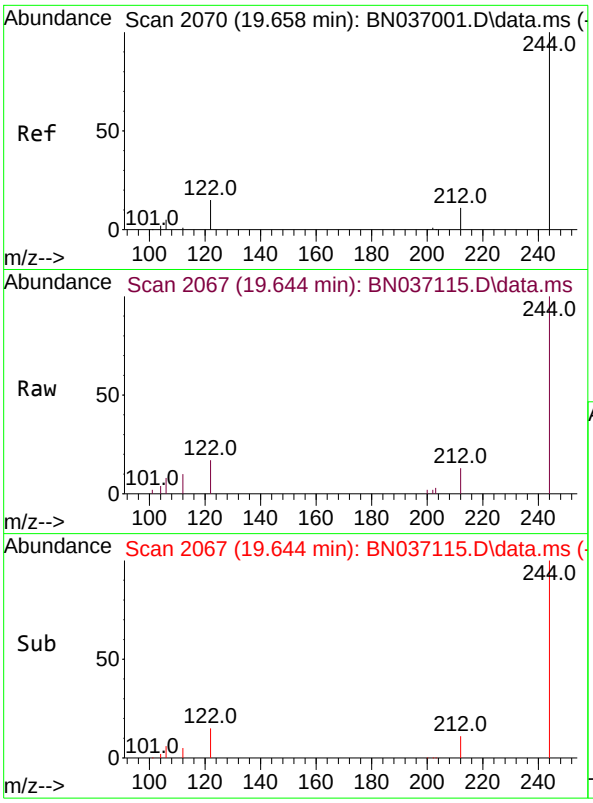


#30
Pyrene
Concen: 0.025 ng
RT: 19.435 min Scan# 2022
Delta R.T. -0.009 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:202 Resp: 371

Ion	Ratio	Lower	Upper
202	100		
200	24.8	17.1	25.7
203	53.9	14.2	21.4#

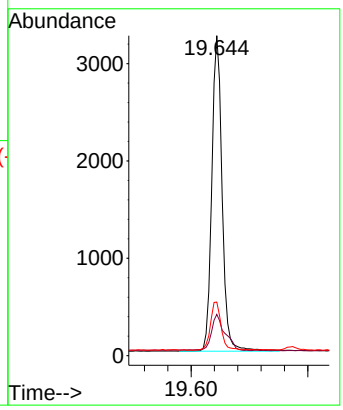




#31
Terphenyl-d14
Concen: 0.530 ng
RT: 19.644 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:244 Resp: 397

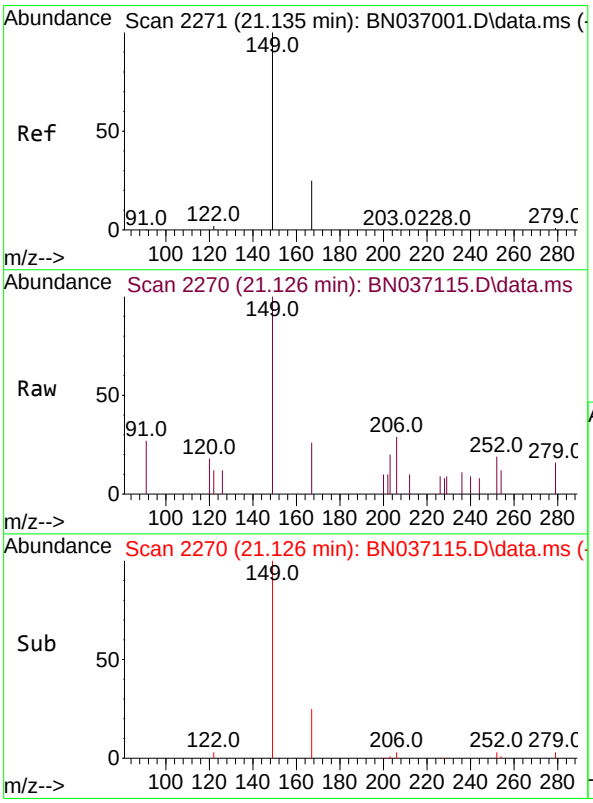
Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.7	14.5
122	16.7	13.4	20.0



Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

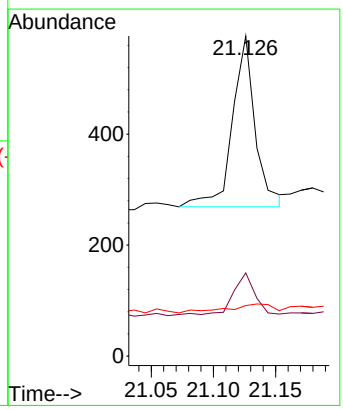
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

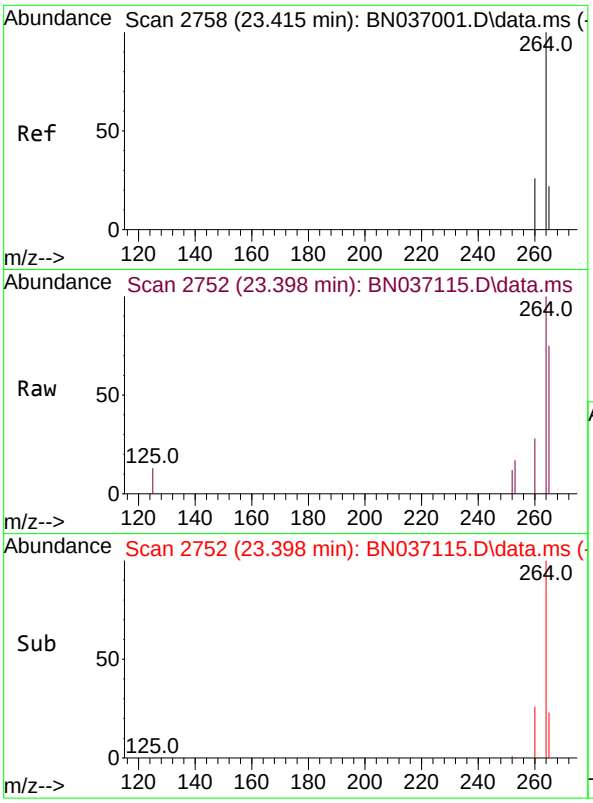


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:149 Resp: 393

Ion	Ratio	Lower	Upper
149	100		
167	22.1	20.6	30.8
279	10.4	2.6	3.8#

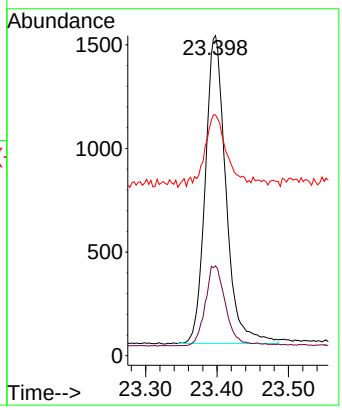




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.398 min Scan# 2
Delta R.T. -0.017 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:264 Resp: 298

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.9	32.9
265	75.3	51.6	77.4



Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	BP-VPB-182-GW-340-342	SDG No.:	Q2082
Lab Sample ID:	Q2082-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037116.D	1	05/21/25 08:41	05/28/25 19:35	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		71%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1870	7.611				
1146-65-2	Naphthalene-d8	4980	10.394				
15067-26-2	Acenaphthene-d10	2700	14.256				
1517-22-2	Phenanthrene-d10	5230	17.009				
1719-03-5	Chrysene-d12	3310	21.198				
1520-96-3	Perylene-d12	2880	23.398				

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\BN052825\
Data File : BN037116.D
Acq On : 28 May 2025 19:35
Operator : RC/JU
Sample : Q2082-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Quant Time: May 29 01:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

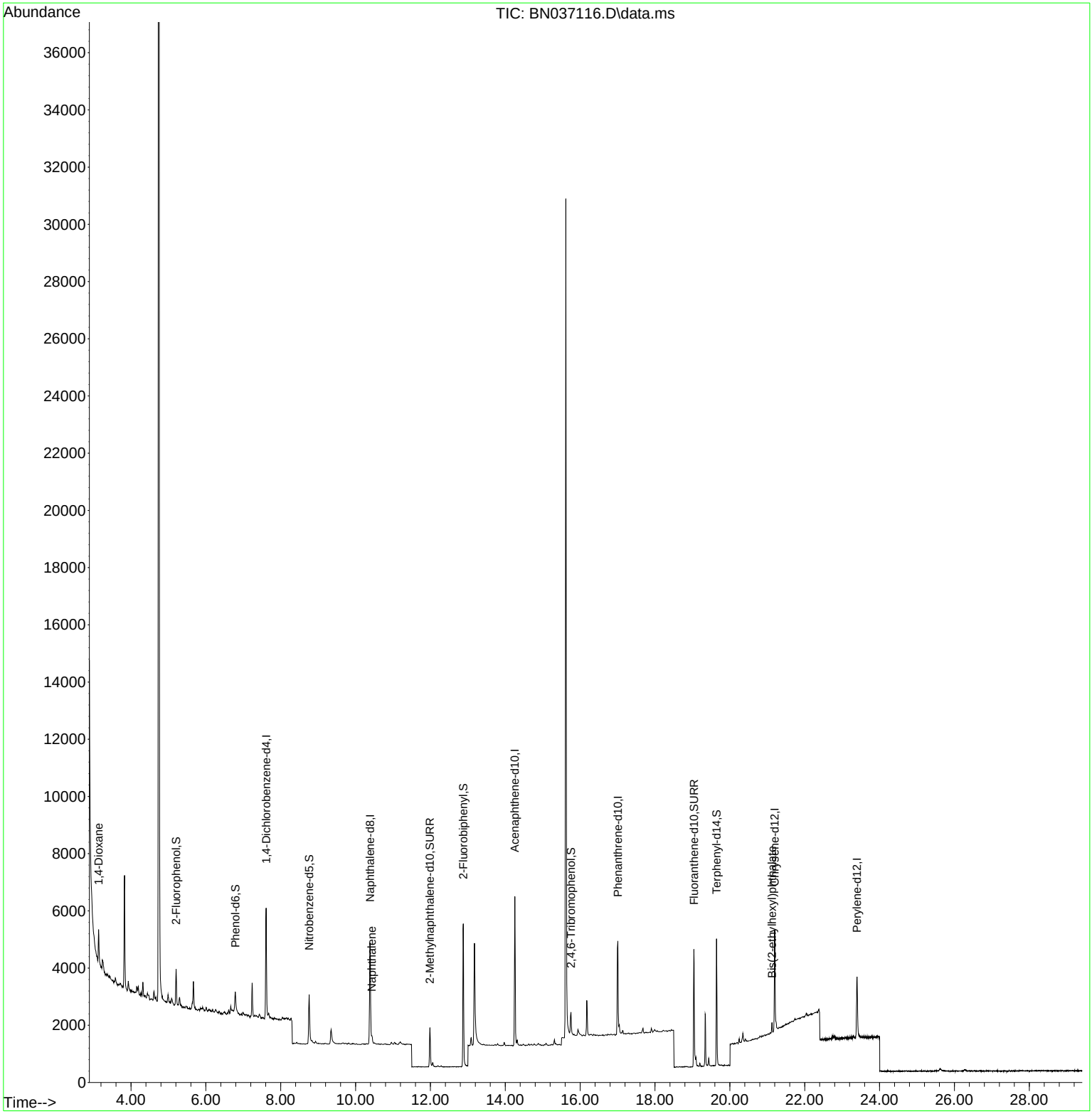
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1870	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4981	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2695	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	5234	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3312	0.400	ng	0.00
35) Perylene-d12	23.398	264	2878	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	820	0.167	ng	0.00
5) Phenol-d6	6.788	99	621	0.101	ng	0.00
8) Nitrobenzene-d5	8.760	82	1602	0.295	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	1996	0.285	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	442	0.373	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	4906	0.398	ng	-0.01
27) Fluoranthene-d10	19.040	212	4806	0.335	ng	0.00
31) Terphenyl-d14	19.644	244	4028	0.569	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.133	88	652	0.284	ng	# 67
9) Naphthalene	10.436	128	299	0.020	ng	# 54
34) Bis(2-ethylhexyl)phtha...	21.126	149	344	0.045	ng	# 96

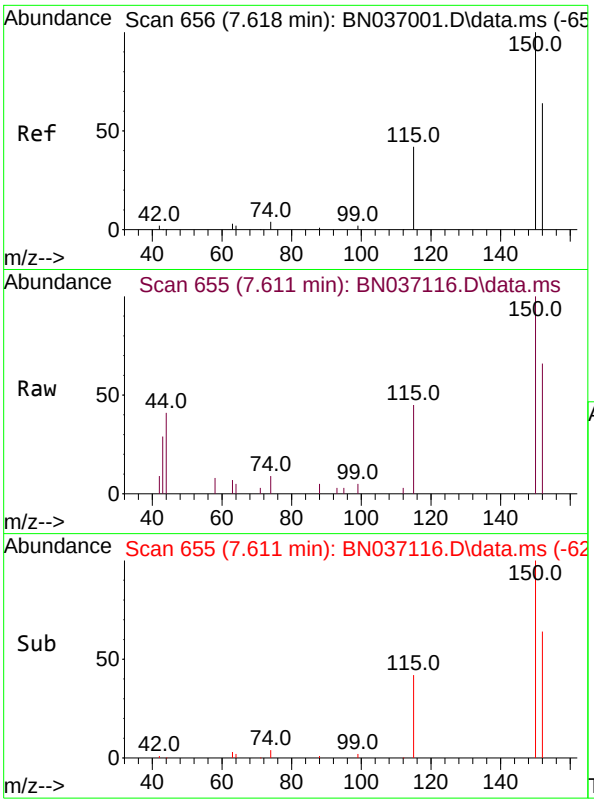
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037116.D
Acq On : 28 May 2025 19:35
Operator : RC/JU
Sample : Q2082-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Quant Time: May 29 01:32:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



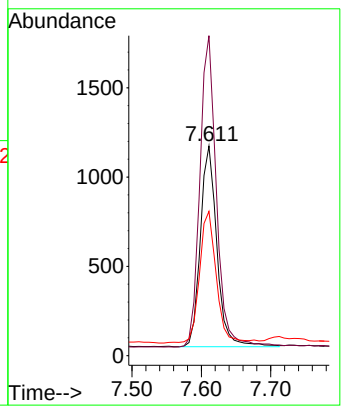


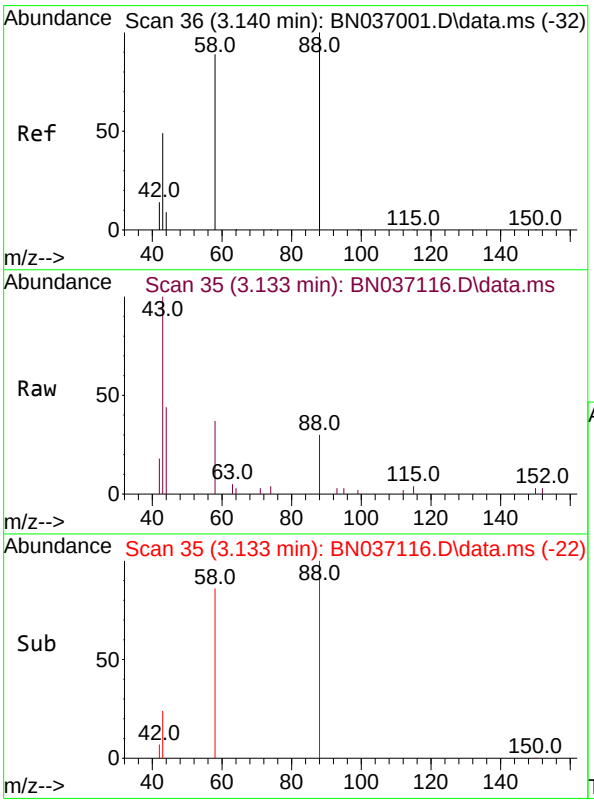
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:152 Resp: 1870

Ion	Ratio	Lower	Upper
152	100		
150	152.6	123.9	185.9
115	68.8	55.8	83.8

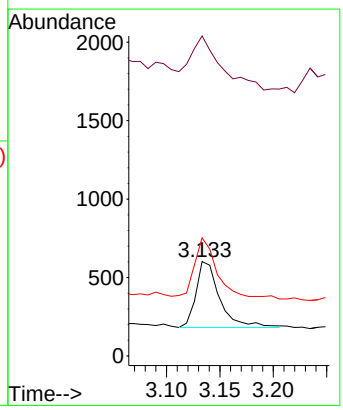


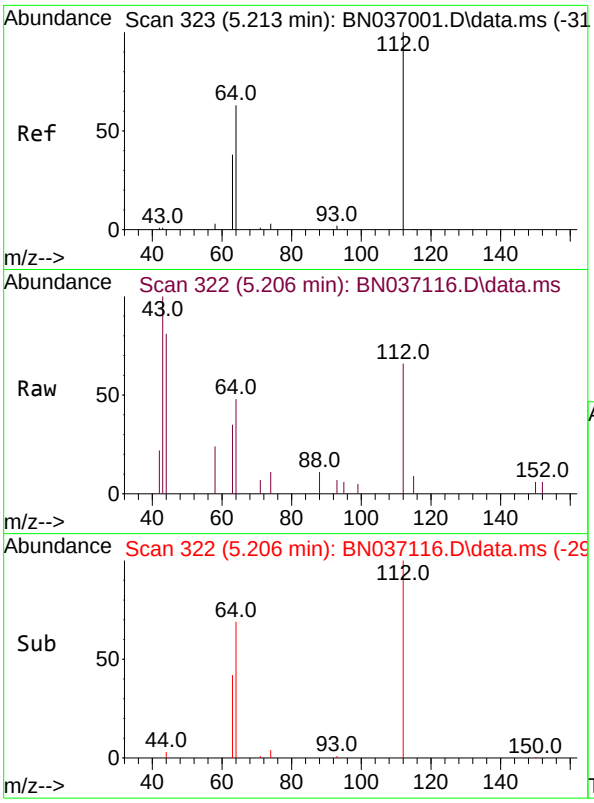


#2
1,4-Dioxane
Concen: 0.284 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Tgt Ion: 88 Resp: 652

Ion	Ratio	Lower	Upper
88	100		
43	101.4	37.4	56.0#
58	92.0	68.8	103.2



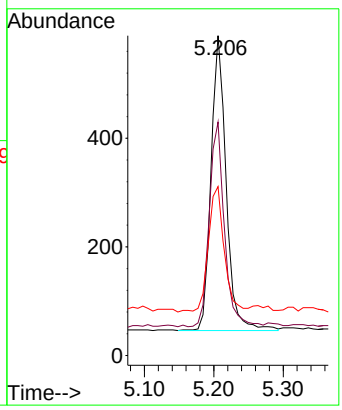


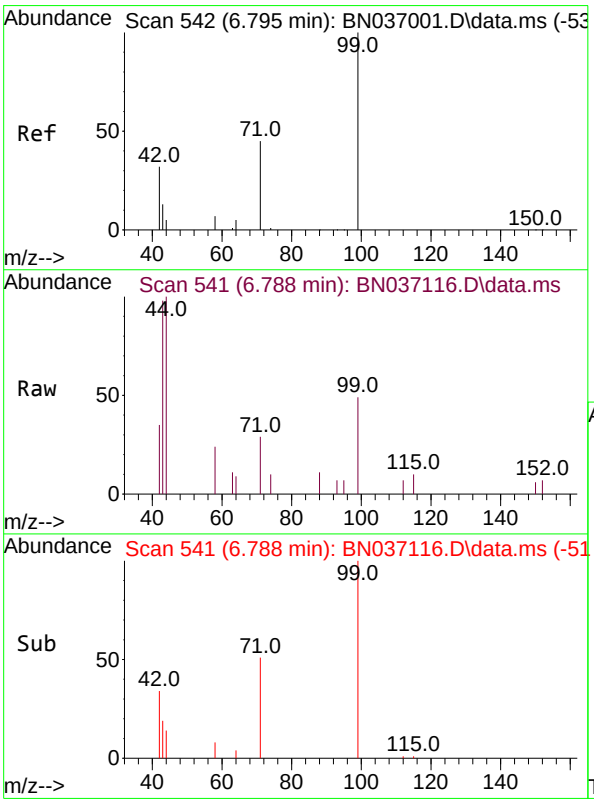
#4
2-Fluorophenol
Concen: 0.167 ng
RT: 5.206 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:112 Resp: 820

Ion	Ratio	Lower	Upper
112	100		
64	69.8	55.7	83.5
63	44.6	34.6	51.8

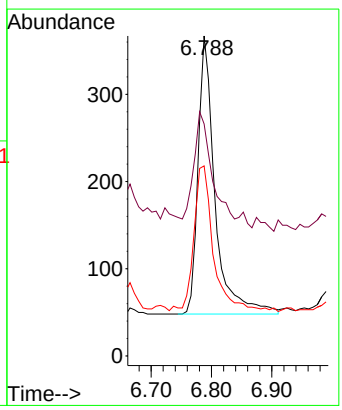


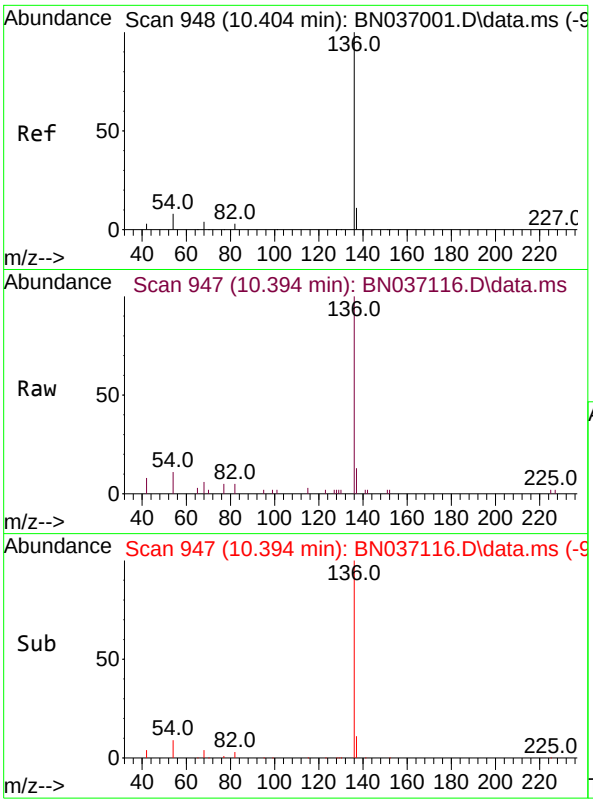


#5
Phenol-d6
Concen: 0.101 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Tgt Ion: 99 Resp: 621

Ion	Ratio	Lower	Upper
99	100		
42	49.0	29.3	43.9#
71	60.9	35.7	53.5#



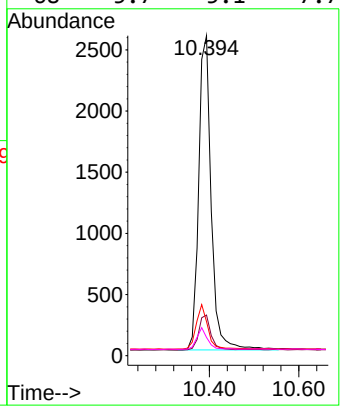


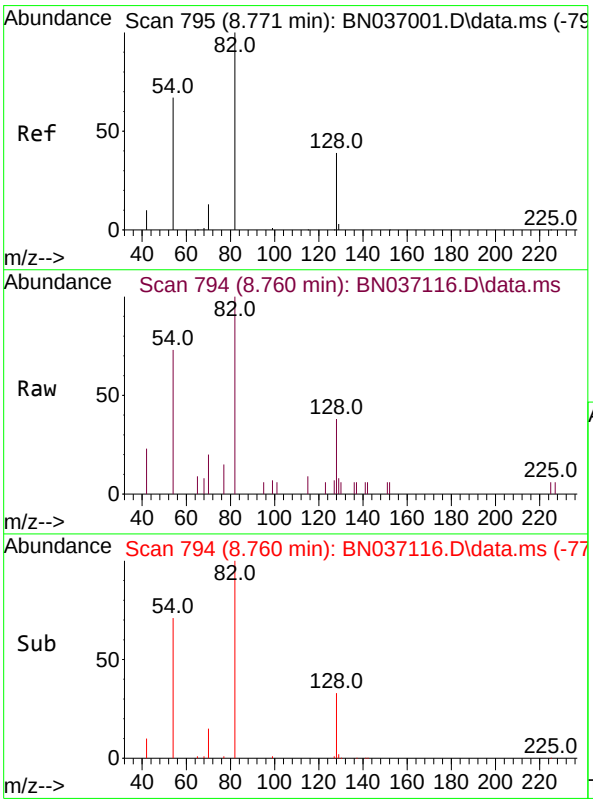
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:136 Resp: 4981

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.4	15.6
54	10.7	8.5	12.7
68	5.7	5.1	7.7

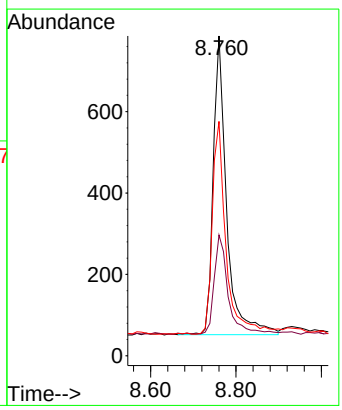


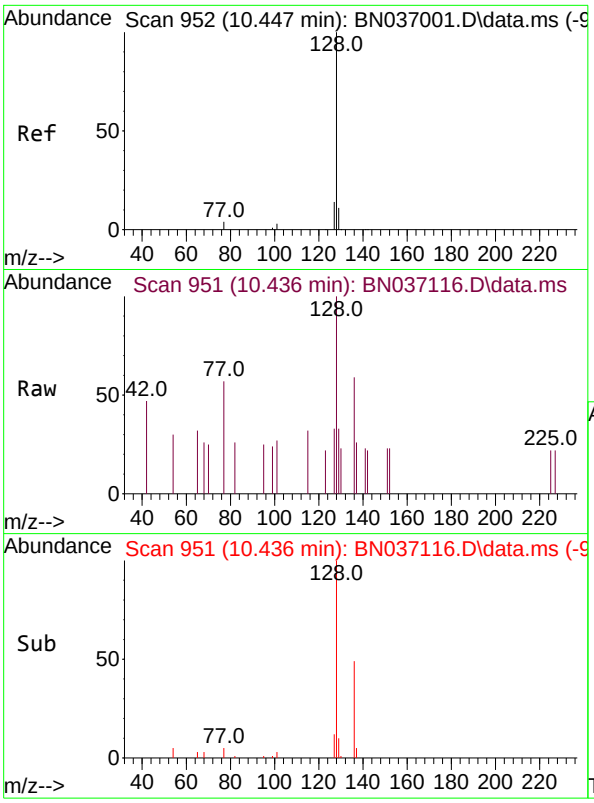


#8
Nitrobenzene-d5
Concen: 0.295 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Tgt Ion: 82 Resp: 1602

Ion	Ratio	Lower	Upper
82	100		
128	37.8	34.0	51.0
54	73.3	55.0	82.4



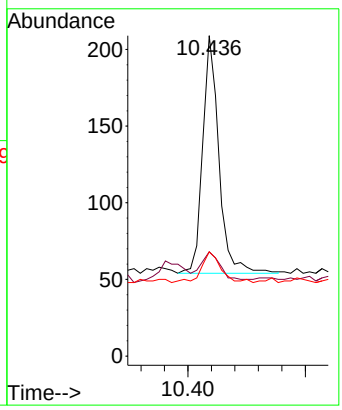


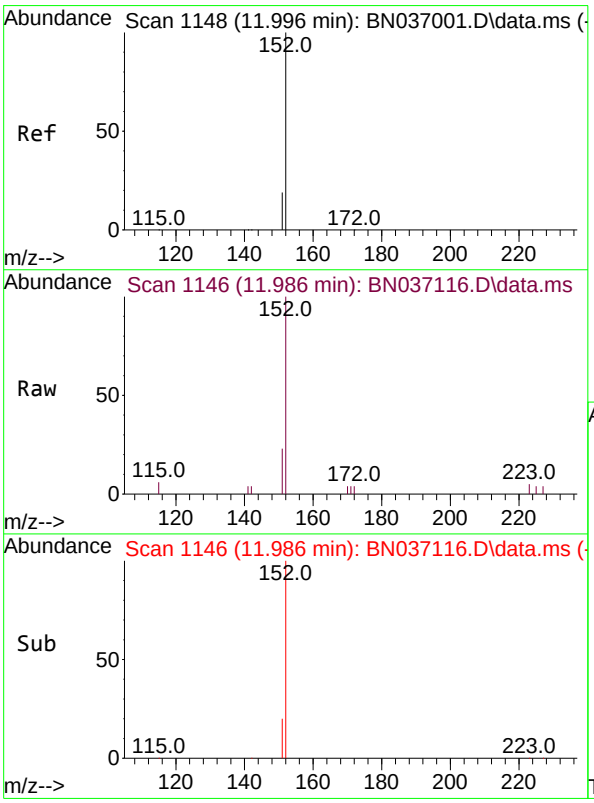
#9
Naphthalene
Concen: 0.020 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:128 Resp: 299

Ion	Ratio	Lower	Upper
128	100		
129	32.5	9.7	14.5#
127	32.5	12.4	18.6#

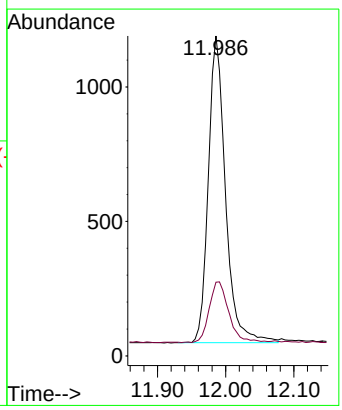


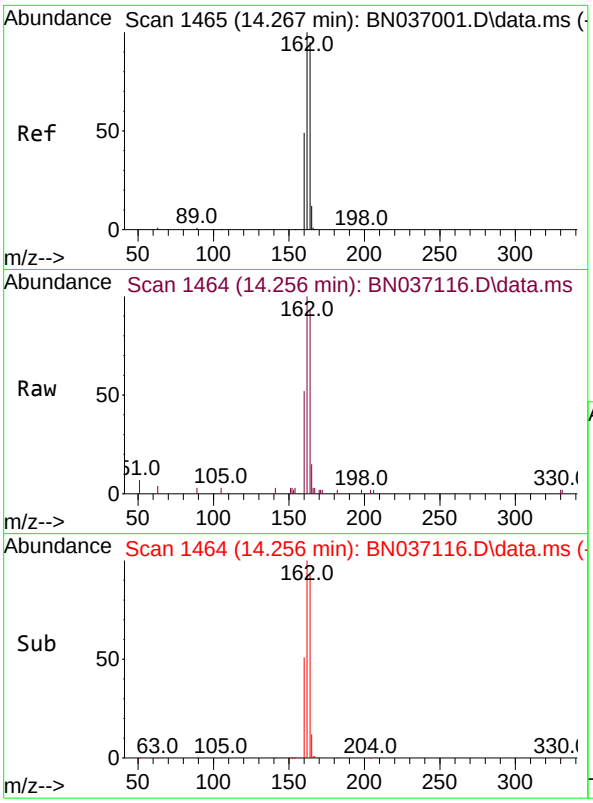


#11
2-Methylnaphthalene-d10
Concen: 0.285 ng
RT: 11.986 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Tgt Ion:152 Resp: 1996

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.5	26.3



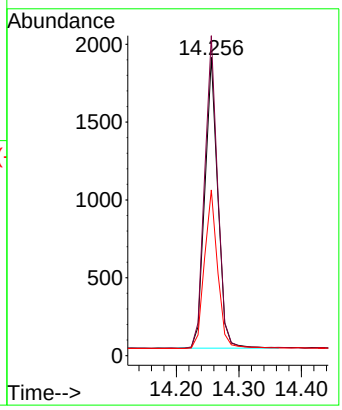


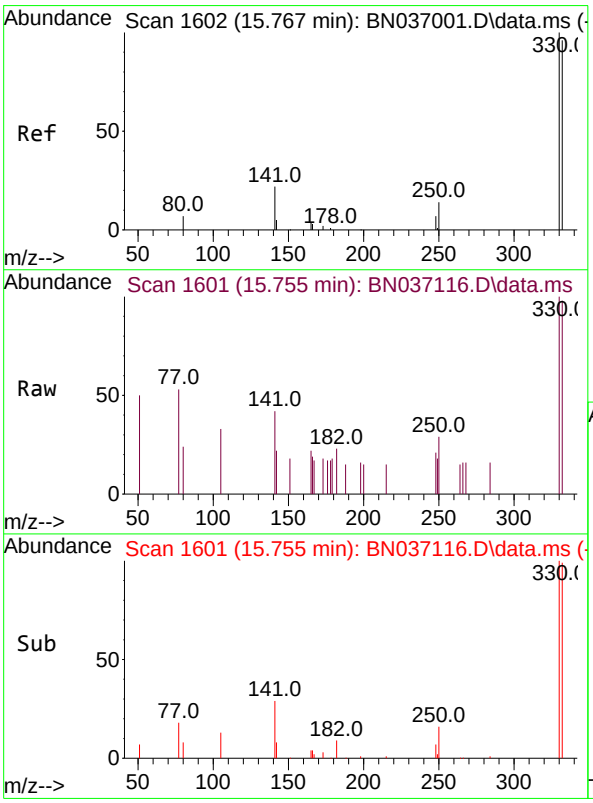
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:164 Resp: 2695

Ion	Ratio	Lower	Upper
164	100		
162	107.3	84.2	126.4
160	55.6	42.6	63.8

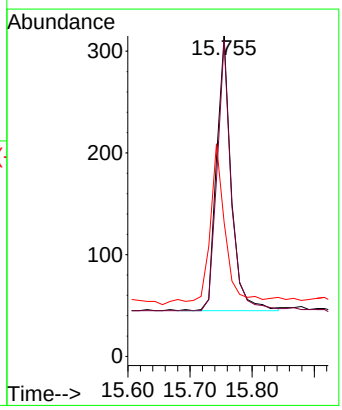


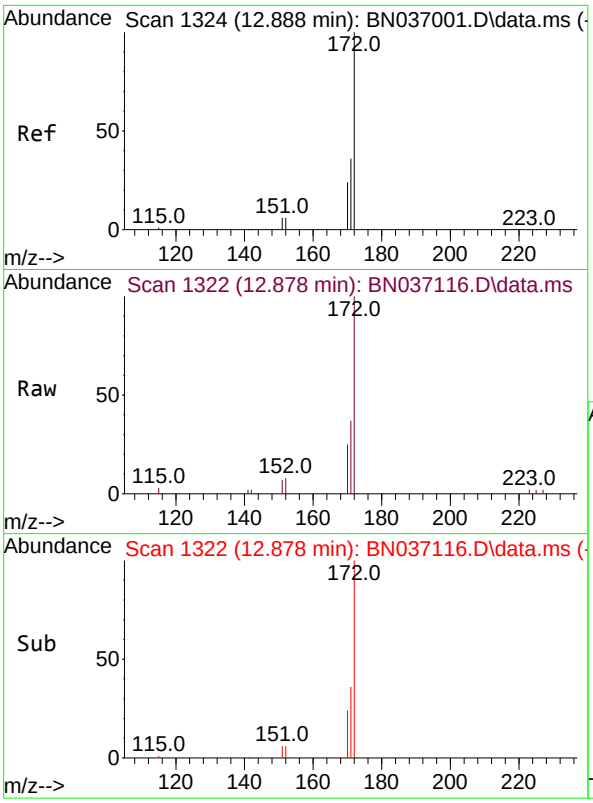


#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Tgt Ion:330 Resp: 442

Ion	Ratio	Lower	Upper
330	100		
332	95.5	73.8	110.8
141	63.8	43.9	65.9



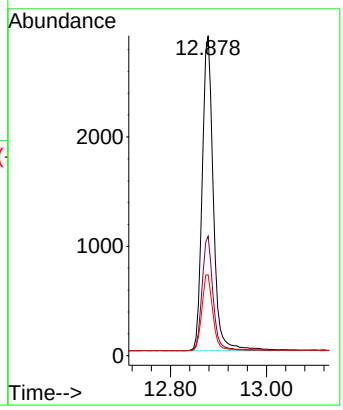


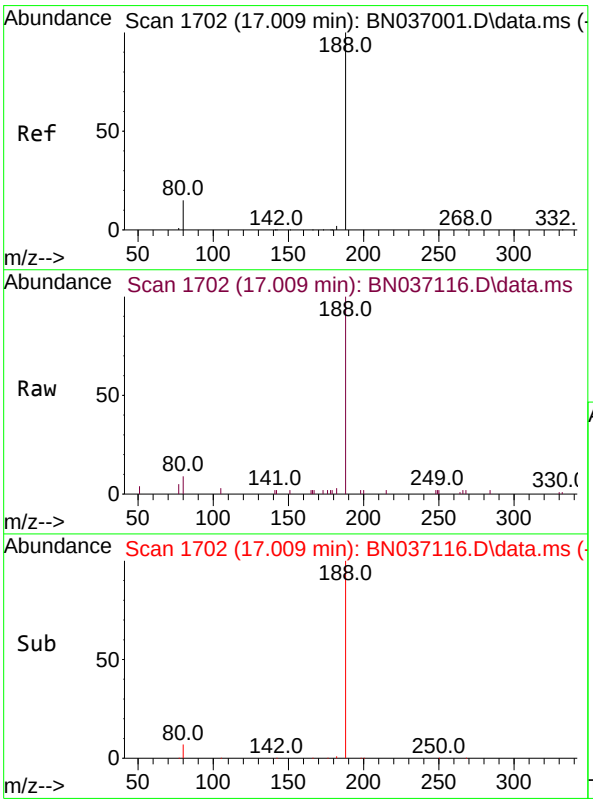
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.878 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:172 Resp: 4906

Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.2	43.8
170	25.2	20.5	30.7

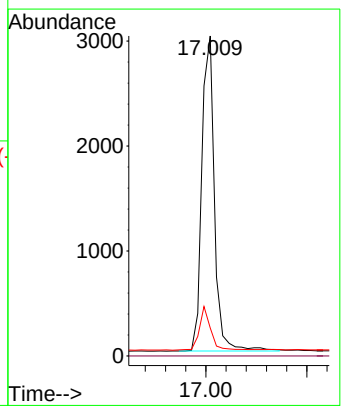


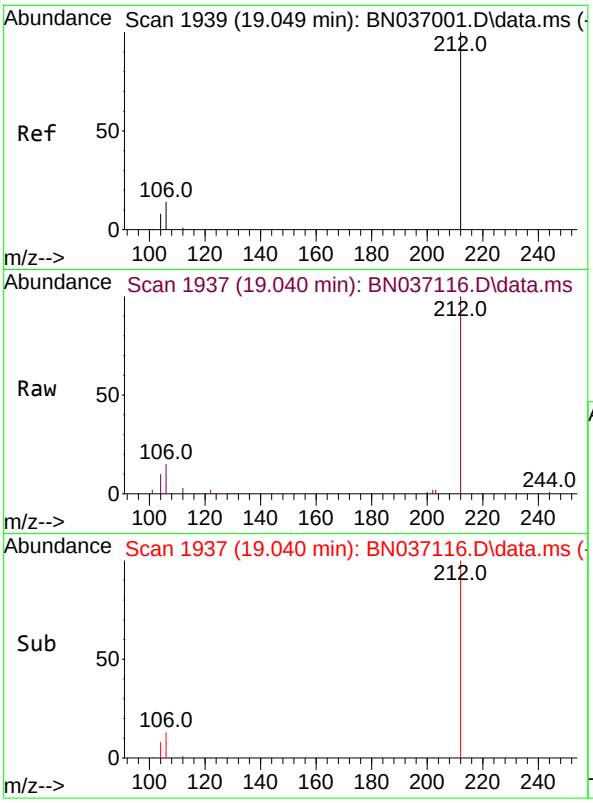


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Tgt Ion:188 Resp: 5234

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	13.4	20.0#



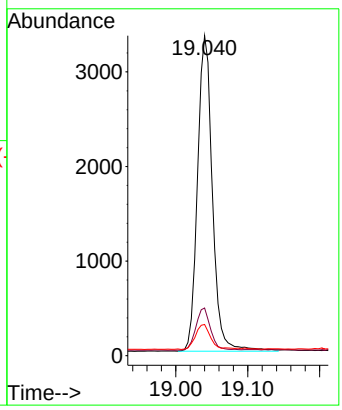


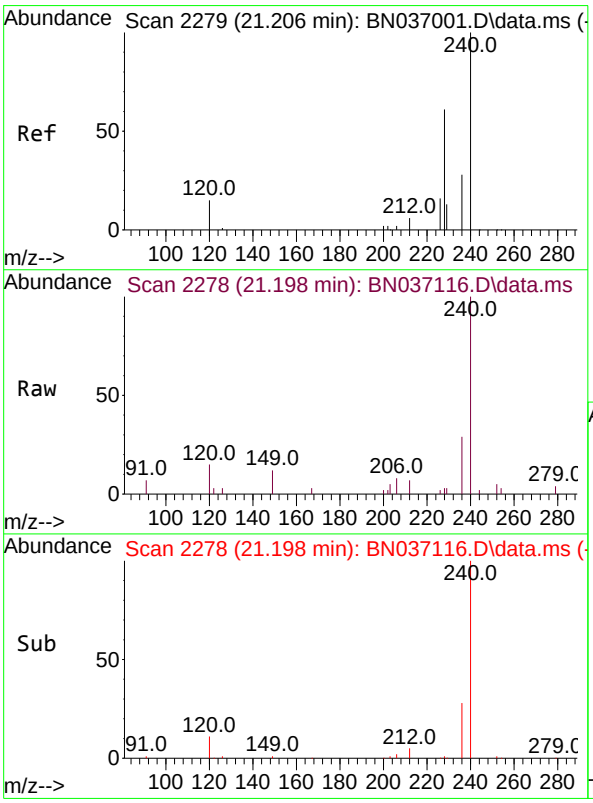
#27
Fluoranthene-d10
Concen: 0.335 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:212 Resp: 4806

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.3	16.9
104	8.1	6.7	10.1

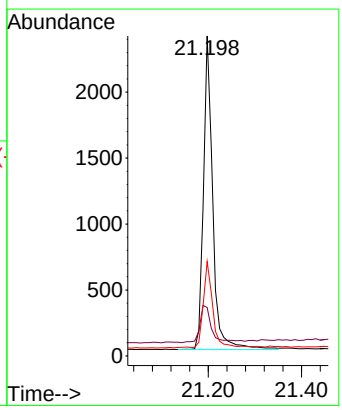


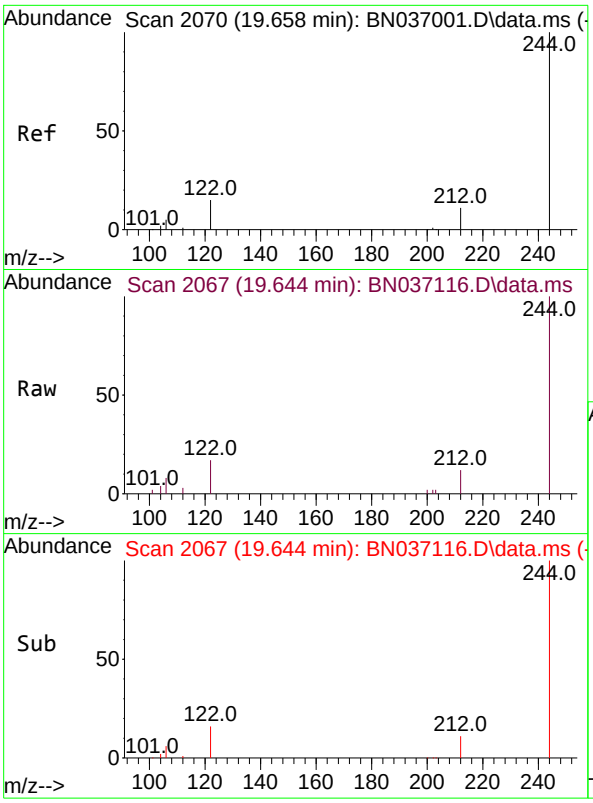


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Tgt Ion:240 Resp: 3312

Ion	Ratio	Lower	Upper
240	100		
120	15.2	15.1	22.7
236	29.5	24.0	36.0



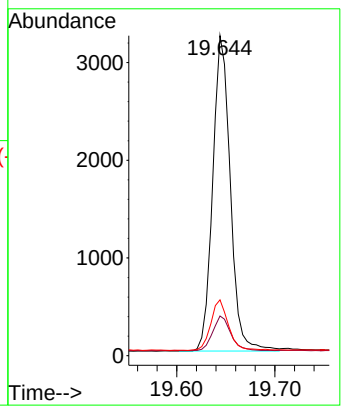


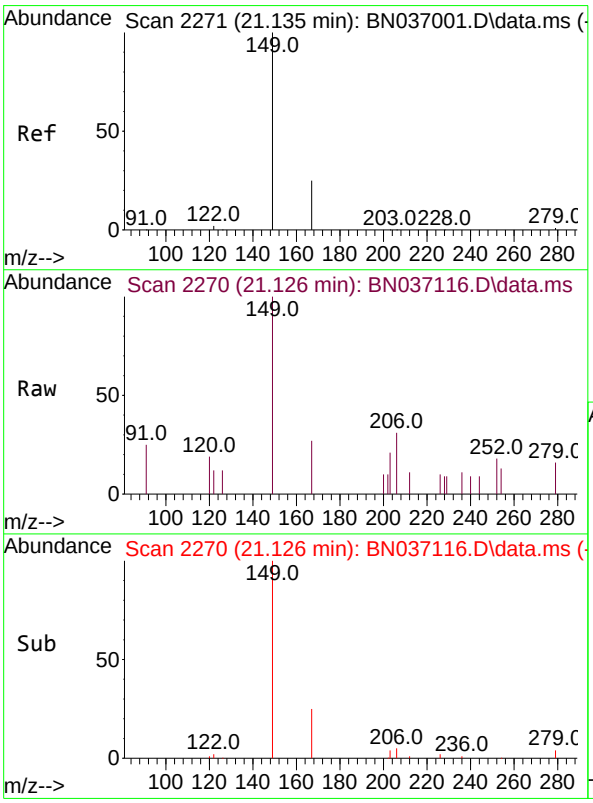
#31
Terphenyl-d14
Concen: 0.569 ng
RT: 19.644 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:244 Resp: 4028

Ion	Ratio	Lower	Upper
244	100		
212	12.4	9.7	14.5
122	17.4	13.4	20.0

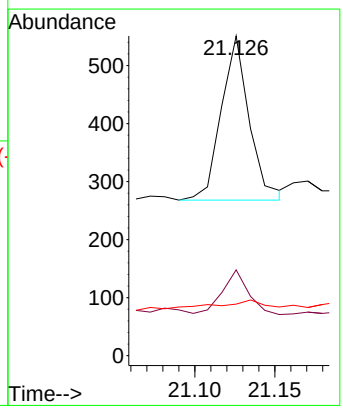


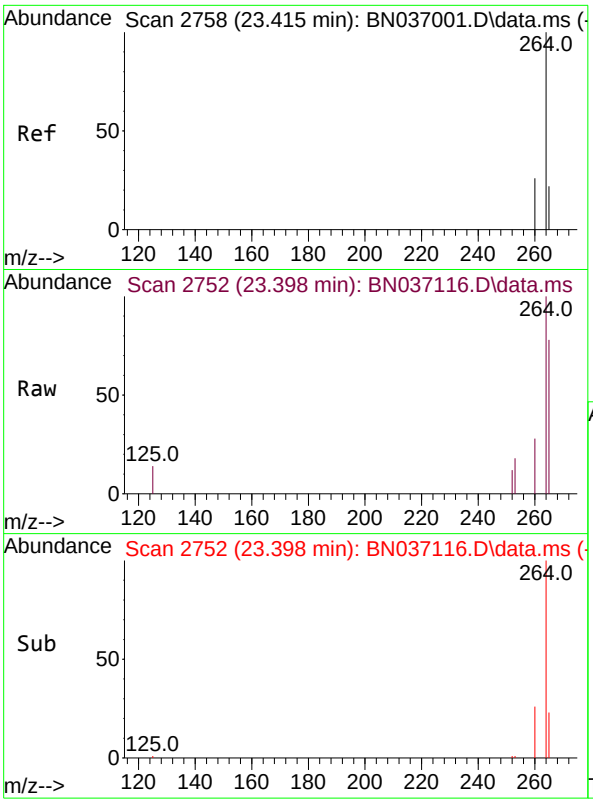


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.045 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Tgt Ion:149 Resp: 344

Ion	Ratio	Lower	Upper
149	100		
167	24.1	20.6	30.8
279	7.8	2.6	3.8#



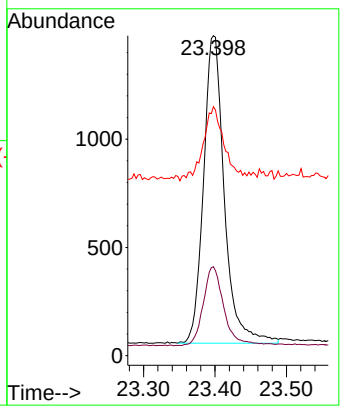


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.398 min Scan# 2
Delta R.T. -0.017 min
Lab File: BN037116.D
Acq: 28 May 2025 19:35

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-340-342

Tgt Ion:264 Resp: 2878

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.9	32.9
265	77.8	51.6	77.4#



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	BP-VPB-182-GW-390-392	SDG No.:	Q2082
Lab Sample ID:	Q2082-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	890 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037117.D	1	05/21/25 08:41	05/28/25 20:11	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1980	7.611				
1146-65-2	Naphthalene-d8	5090	10.394				
15067-26-2	Acenaphthene-d10	2710	14.256				
1517-22-2	Phenanthrene-d10	4780	17.009				
1719-03-5	Chrysene-d12	3140	21.197				
1520-96-3	Perylene-d12	3040	23.398				

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\BN052825\
Data File : BN037117.D
Acq On : 28 May 2025 20:11
Operator : RC/JU
Sample : Q2082-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Quant Time: May 29 01:32:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

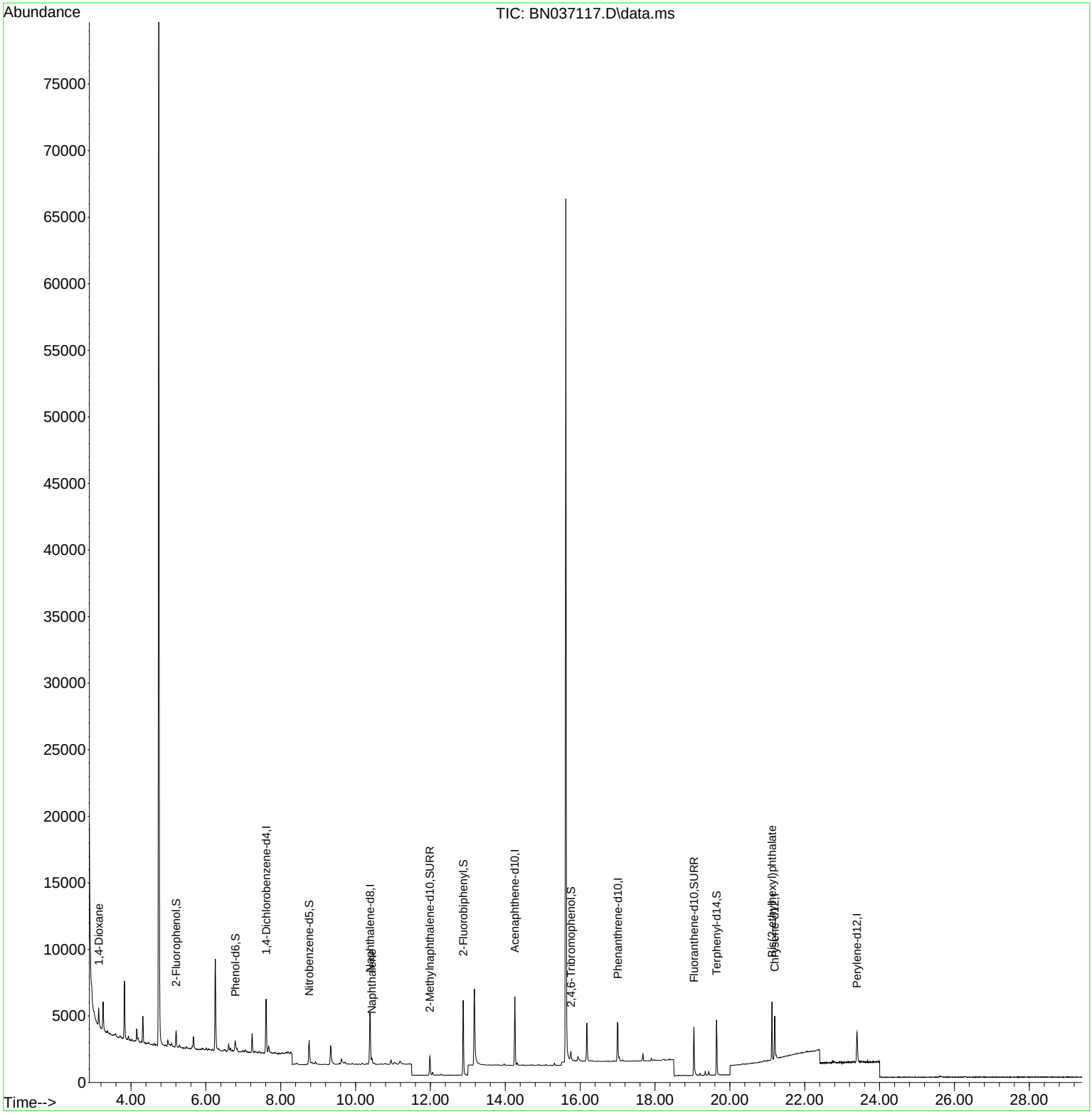
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1975	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	5085	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2709	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4782	0.400	ng	# 0.00
29) Chrysene-d12	21.197	240	3144	0.400	ng	0.00
35) Perylene-d12	23.398	264	3044	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	807	0.156	ng	0.00
5) Phenol-d6	6.788	99	625	0.097	ng	0.00
8) Nitrobenzene-d5	8.760	82	1632	0.295	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	2016	0.282	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	386	0.324	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	5060	0.408	ng	-0.01
27) Fluoranthene-d10	19.040	212	4135	0.315	ng	0.00
31) Terphenyl-d14	19.644	244	3950	0.587	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	653	0.269	ng	# 43
9) Naphthalene	10.436	128	536	0.036	ng	# 74
34) Bis(2-ethylhexyl)phtha...	21.126	149	3653	0.501	ng	97

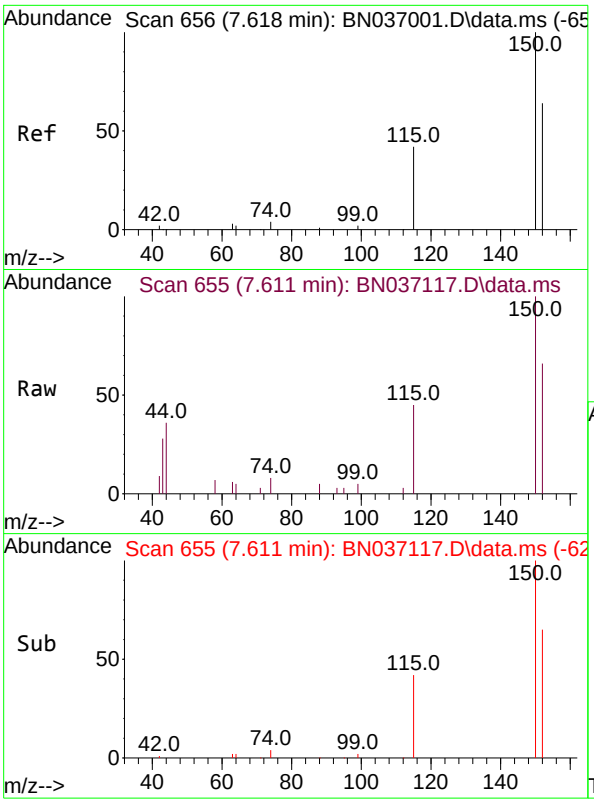
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037117.D
Acq On : 28 May 2025 20:11
Operator : RC/JU
Sample : Q2082-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Quant Time: May 29 01:32:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



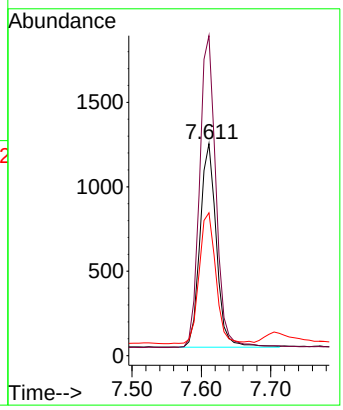


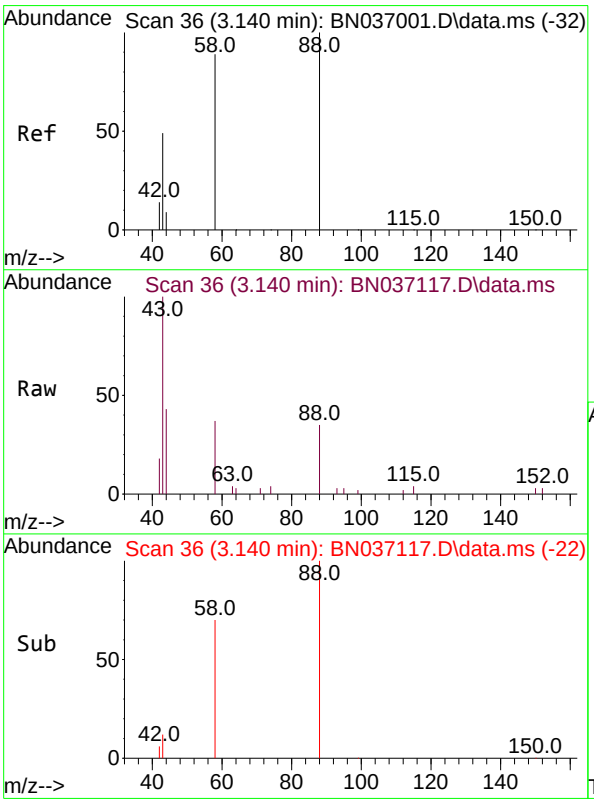
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:152 Resp: 1975

Ion	Ratio	Lower	Upper
152	100		
150	151.0	123.9	185.9
115	67.4	55.8	83.8

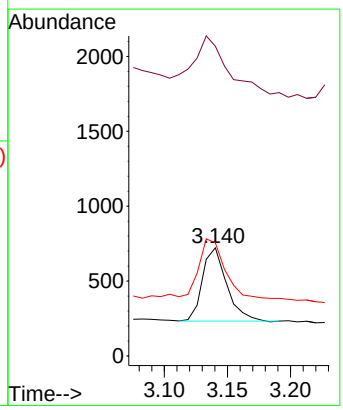


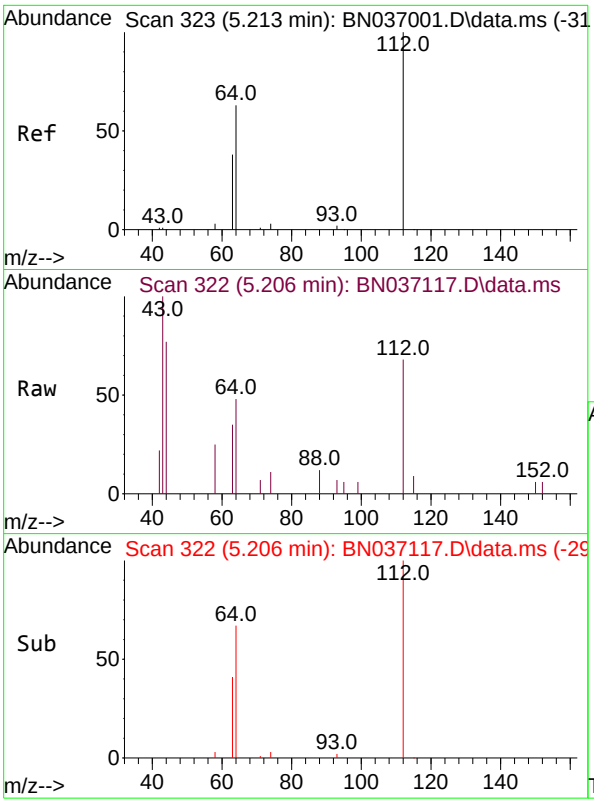


#2
1,4-Dioxane
Concen: 0.269 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Tgt Ion: 88 Resp: 653

Ion	Ratio	Lower	Upper
88	100		
43	132.3	37.4	56.0#
58	102.8	68.8	103.2



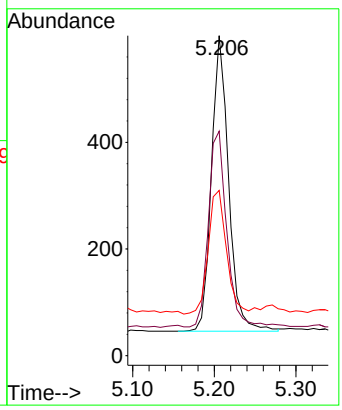


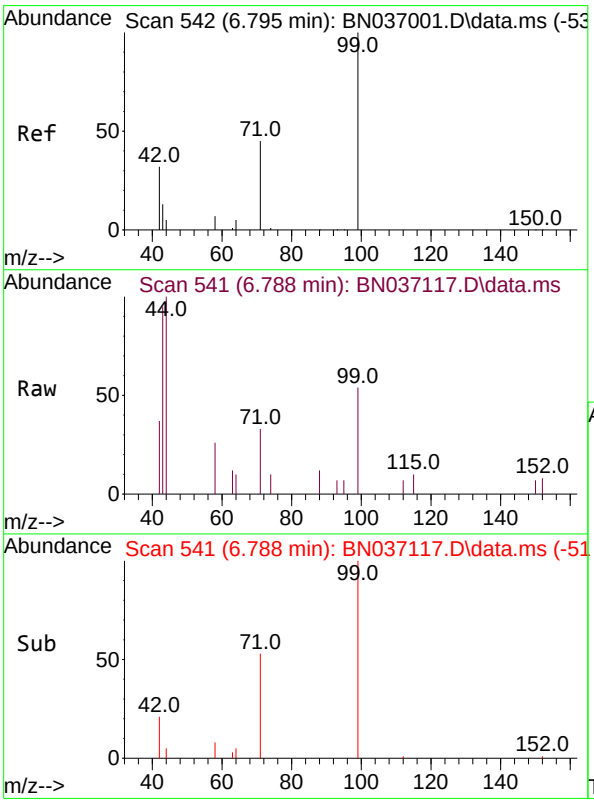
#4
2-Fluorophenol
Concen: 0.156 ng
RT: 5.206 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:112 Resp: 807

Ion	Ratio	Lower	Upper
112	100		
64	71.3	55.7	83.5
63	45.0	34.6	51.8

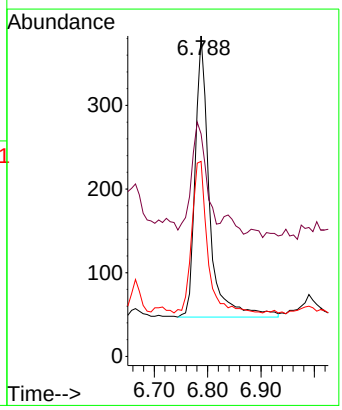


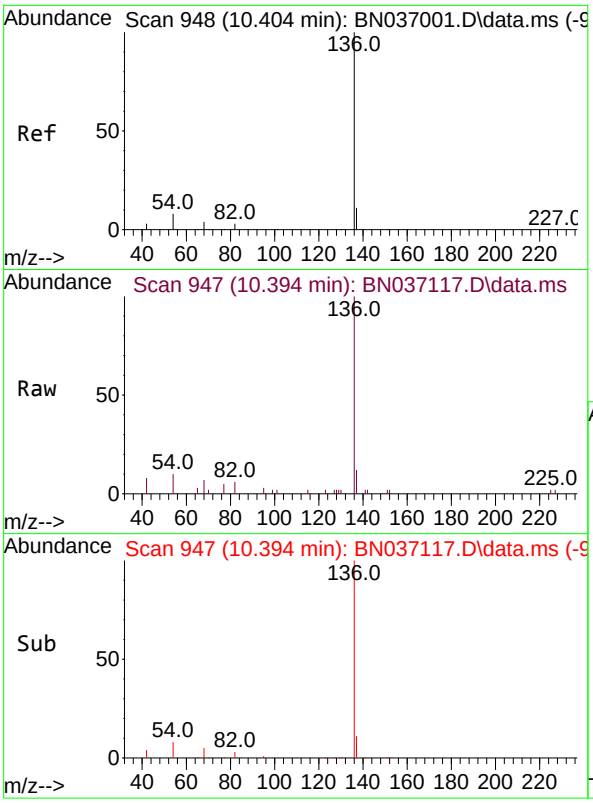


#5
Phenol-d6
Concen: 0.097 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Tgt Ion: 99 Resp: 625

Ion	Ratio	Lower	Upper
99	100		
42	39.8	29.3	43.9
71	58.7	35.7	53.5#



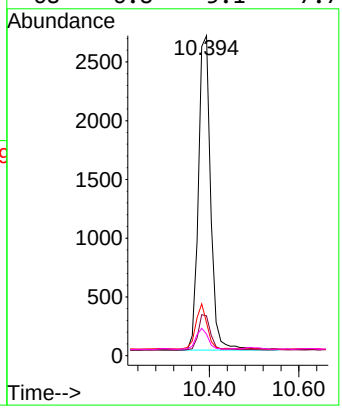


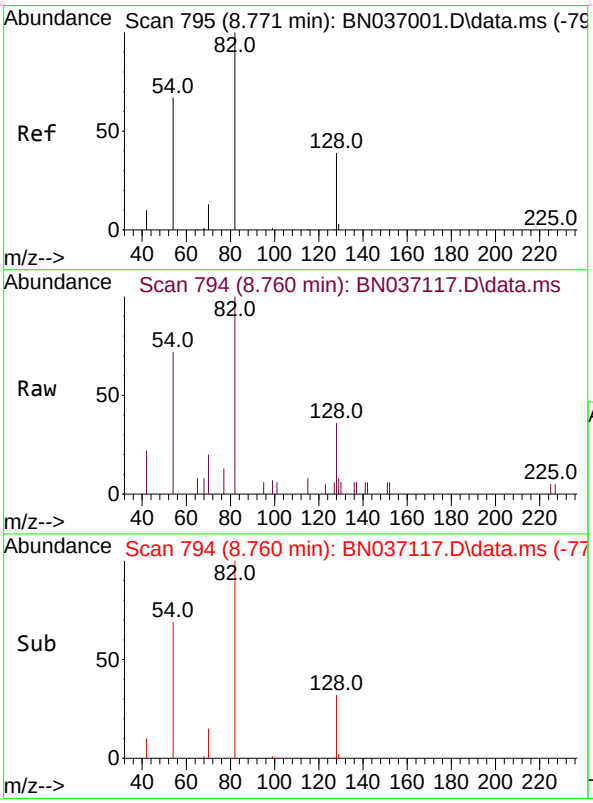
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:136 Resp: 5085

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.4	15.6
54	10.3	8.5	12.7
68	6.8	5.1	7.7

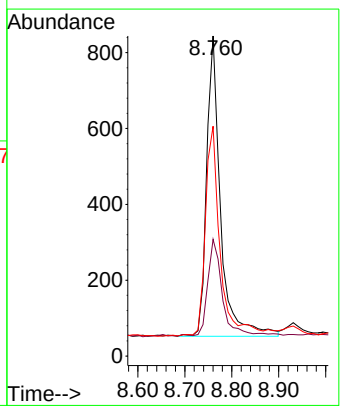


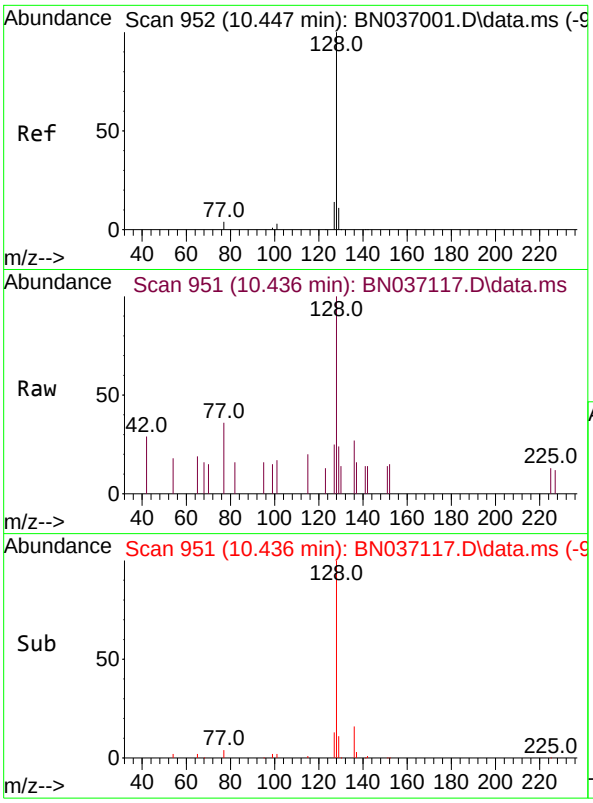


#8
Nitrobenzene-d5
Concen: 0.295 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Tgt Ion: 82 Resp: 1632

Ion	Ratio	Lower	Upper
82	100		
128	36.5	34.0	51.0
54	71.8	55.0	82.4



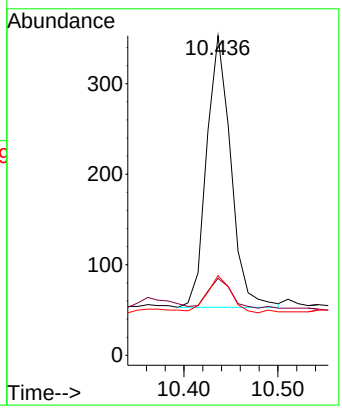


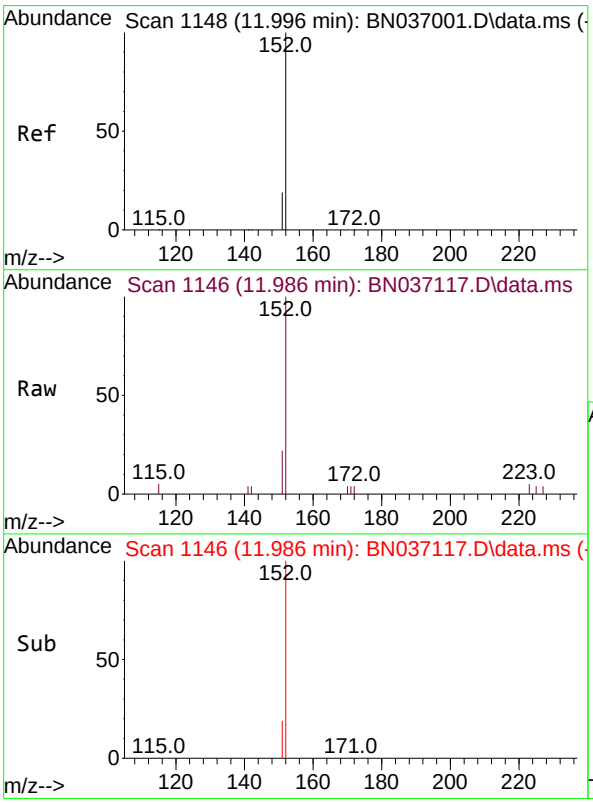
#9
Naphthalene
Concen: 0.036 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:128 Resp: 536

Ion	Ratio	Lower	Upper
128	100		
129	24.1	9.7	14.5#
127	24.9	12.4	18.6#

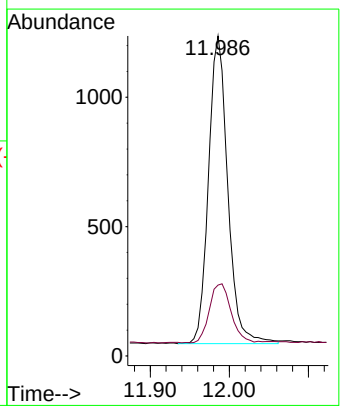


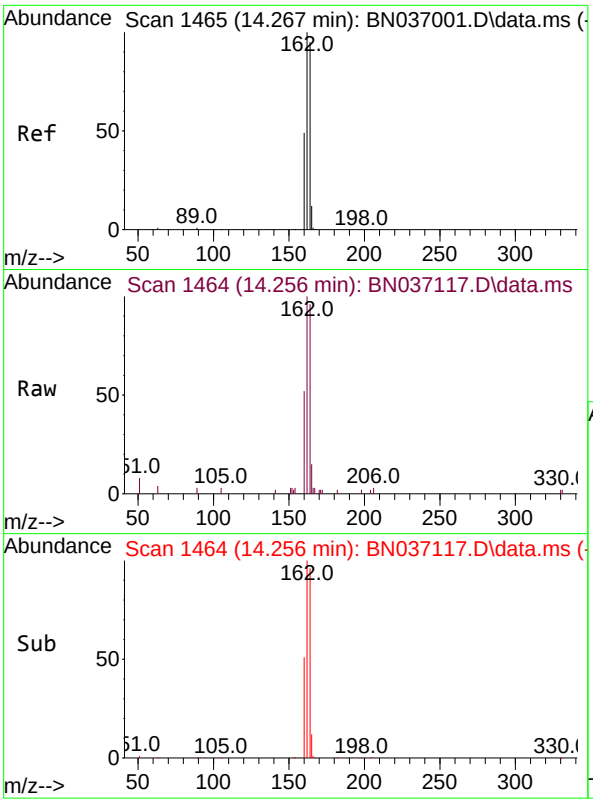


#11
2-Methylnaphthalene-d10
Concen: 0.282 ng
RT: 11.986 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Tgt Ion:152 Resp: 2016

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.5	26.3



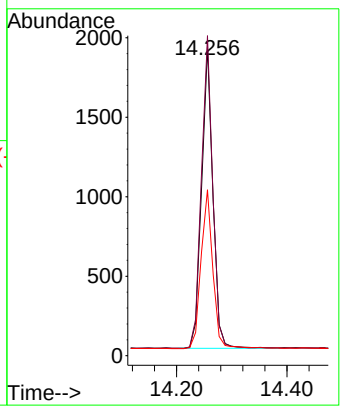


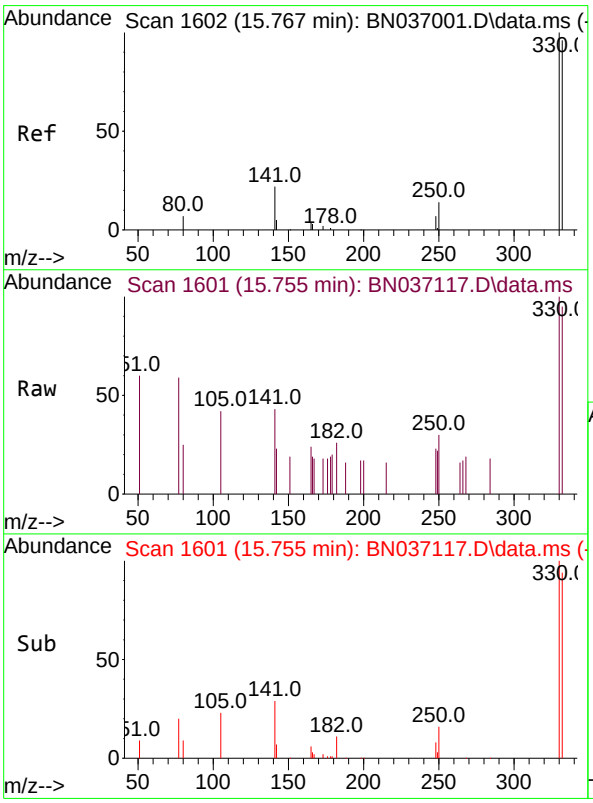
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:164 Resp: 2709

Ion	Ratio	Lower	Upper
164	100		
162	103.7	84.2	126.4
160	53.8	42.6	63.8

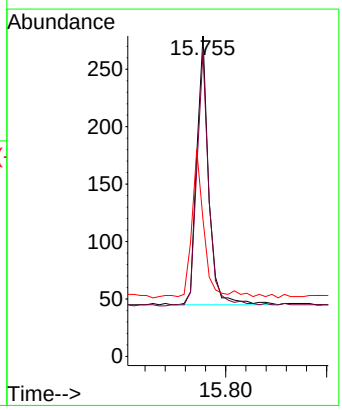


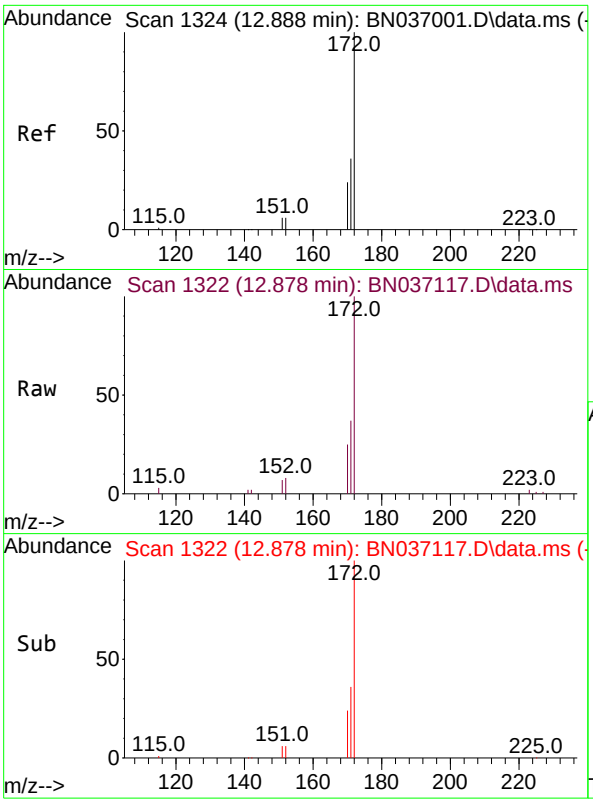


#14
2,4,6-Tribromophenol
Concen: 0.324 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Tgt Ion:330 Resp: 386

Ion	Ratio	Lower	Upper
330	100		
332	95.9	73.8	110.8
141	55.2	43.9	65.9



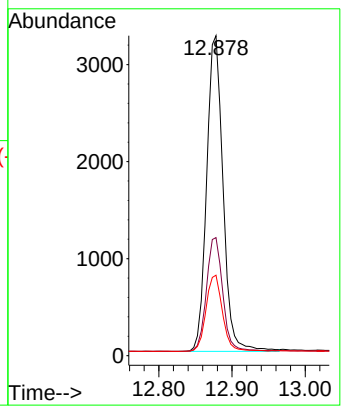


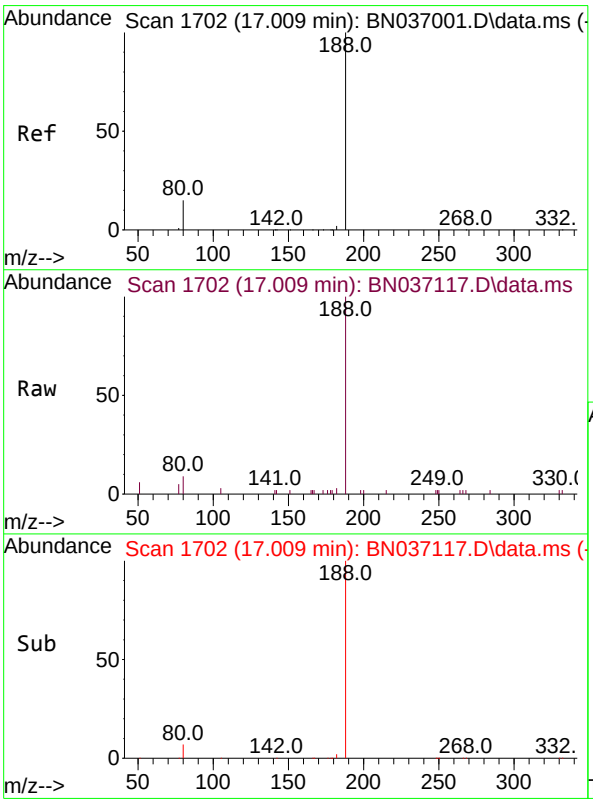
#15
2-Fluorobiphenyl
Concen: 0.408 ng
RT: 12.878 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:172 Resp: 5060

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.2	43.8
170	25.2	20.5	30.7

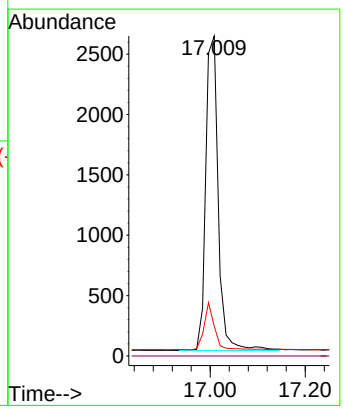


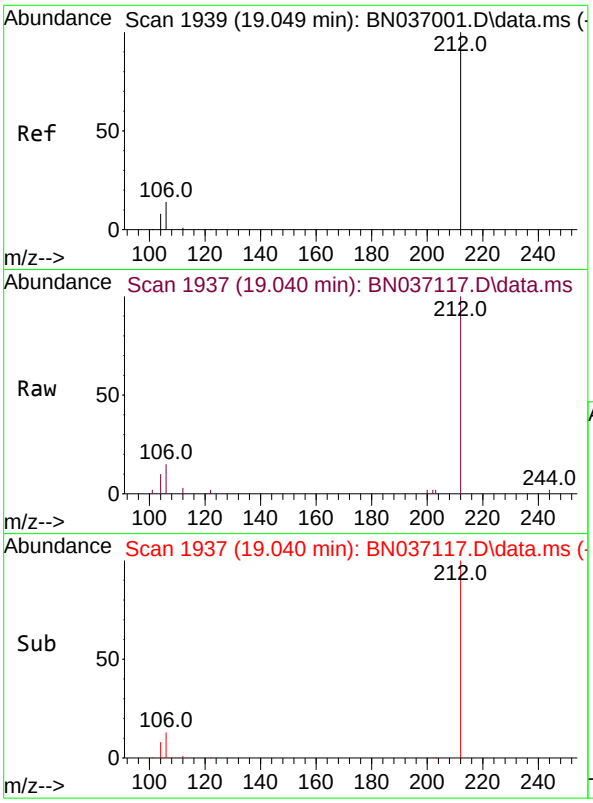


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Tgt Ion:188 Resp: 4782

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	13.4	20.0#



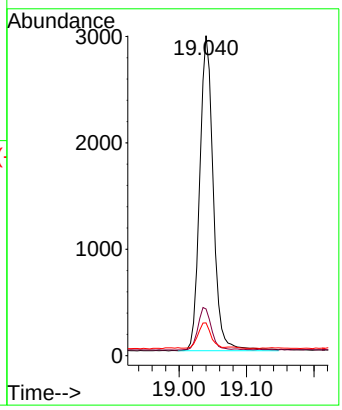


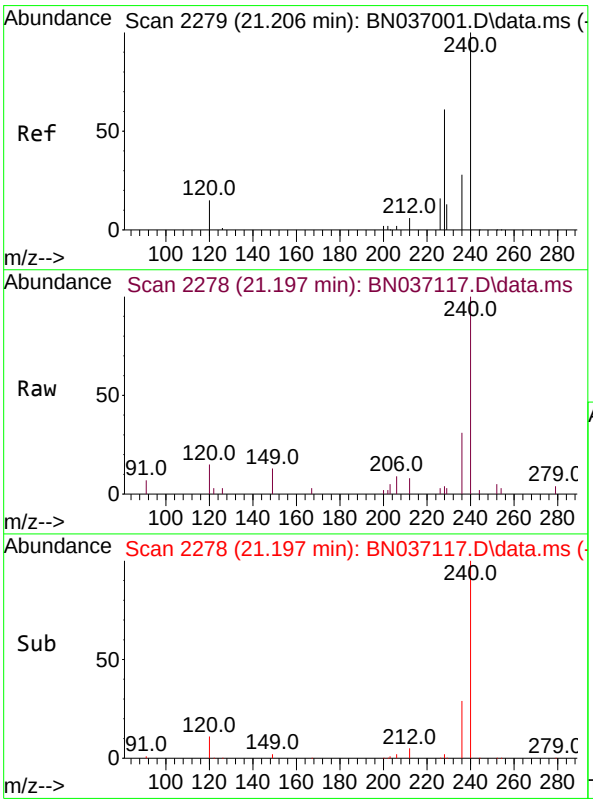
#27
Fluoranthene-d10
Concen: 0.315 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:212 Resp: 4135

Ion	Ratio	Lower	Upper
212	100		
106	13.7	11.3	16.9
104	7.9	6.7	10.1

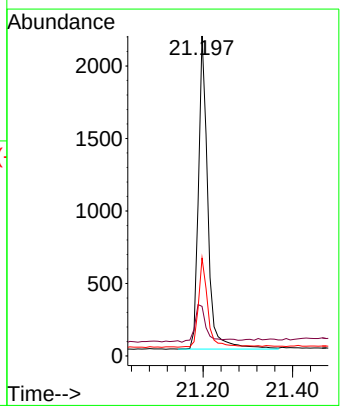


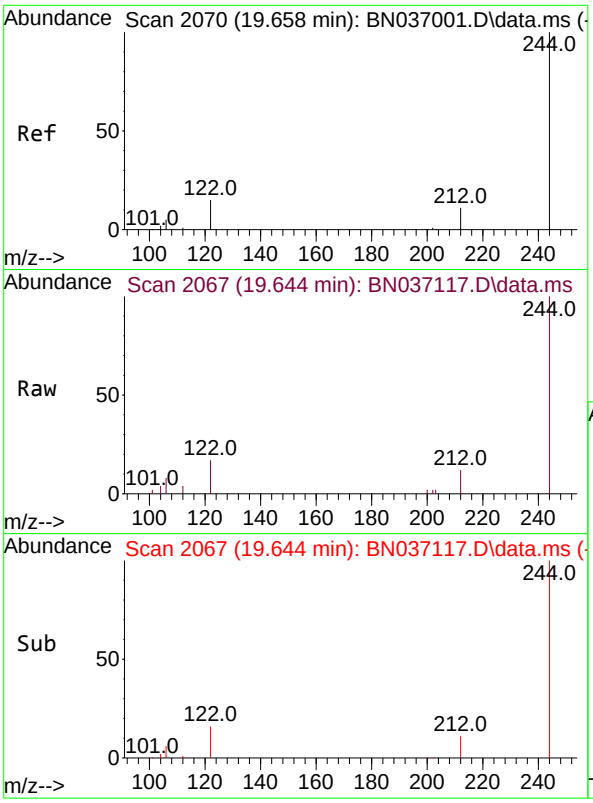


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Tgt Ion:240 Resp: 3144

Ion	Ratio	Lower	Upper
240	100		
120	15.5	15.1	22.7
236	30.6	24.0	36.0



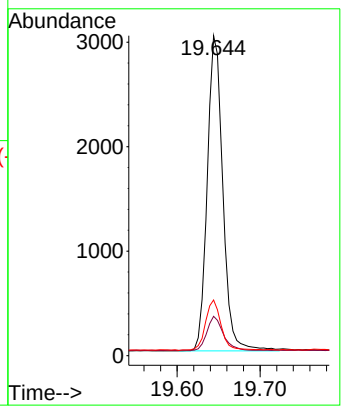


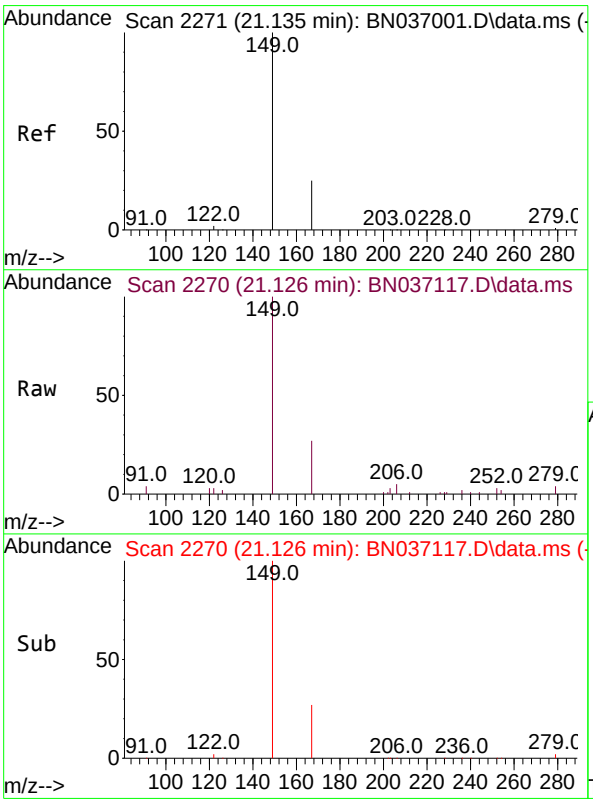
#31
Terphenyl-d14
Concen: 0.587 ng
RT: 19.644 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:244 Resp: 3950

Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.7	14.5
122	17.4	13.4	20.0

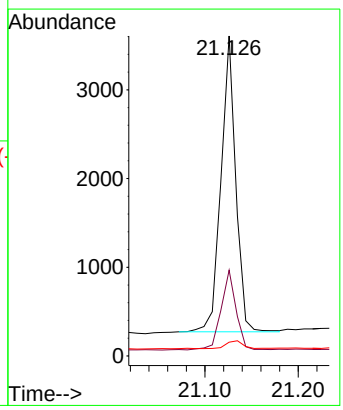


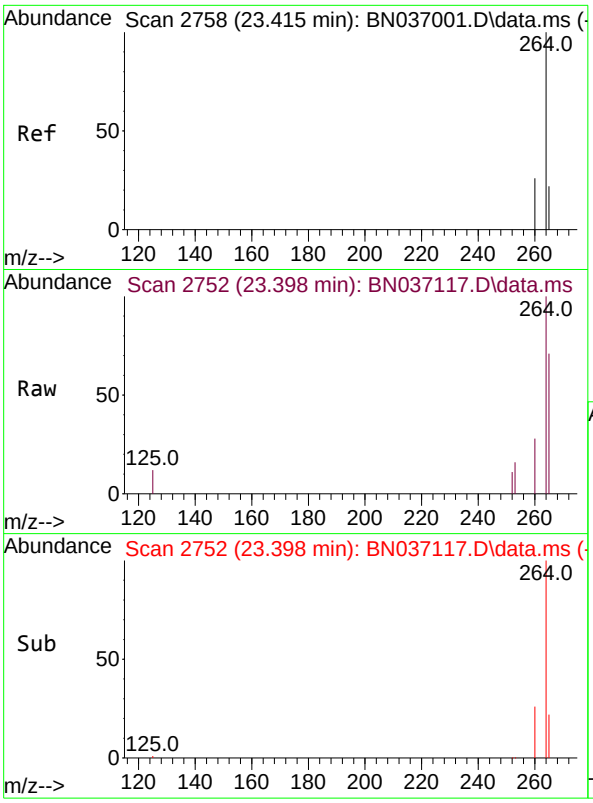


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.501 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Tgt Ion:149 Resp: 3653

Ion	Ratio	Lower	Upper
149	100		
167	27.1	20.6	30.8
279	2.9	2.6	3.8



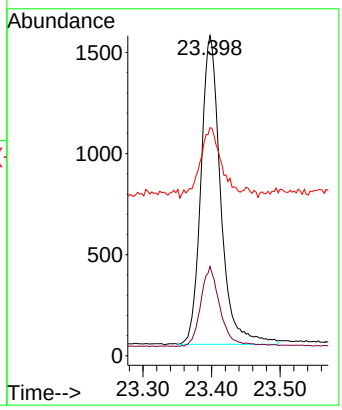


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.398 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037117.D
Acq: 28 May 2025 20:11

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-390-392

Tgt Ion:264 Resp: 3044

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.9	32.9
265	71.3	51.6	77.4



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	VPB182-HYD-20250516	SDG No.:	Q2082
Lab Sample ID:	Q2082-12	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037118.D	1	05/21/25 08:41	05/28/25 20:47	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.0080	*	30 - 150		2%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.032	*	30 - 150		8%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2060	7.611				
1146-65-2	Naphthalene-d8	5060	10.394				
15067-26-2	Acenaphthene-d10	2510	14.256				
1517-22-2	Phenanthrene-d10	4250	17.009				
1719-03-5	Chrysene-d12	3090	21.198				
1520-96-3	Perylene-d12	2550	23.398				

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\BN052825\
Data File : BN037118.D
Acq On : 28 May 2025 20:47
Operator : RC/JU
Sample : Q2082-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Quant Time: May 29 01:33:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

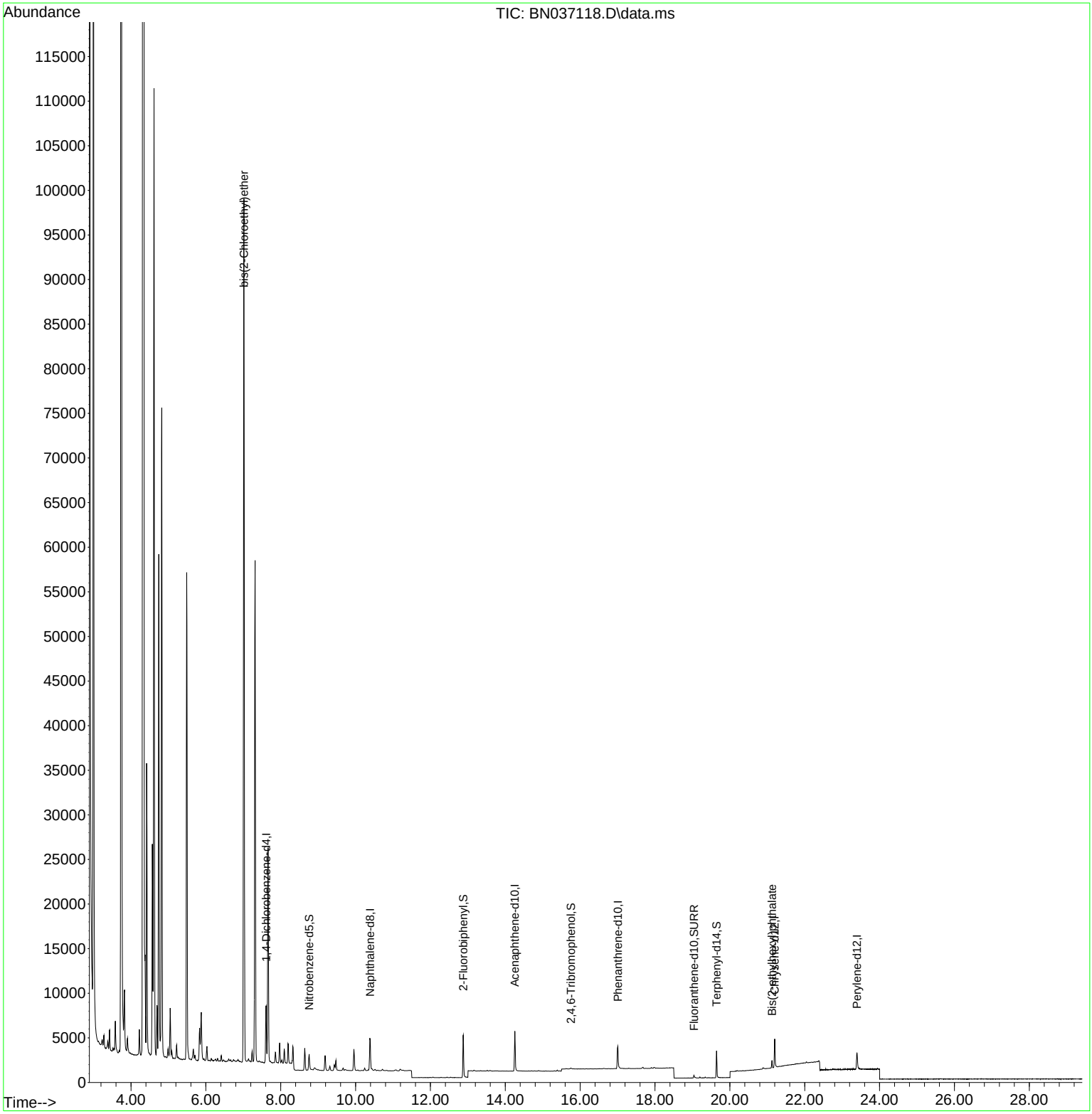
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2059	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	5062	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2514	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4253	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3086	0.400	ng	# 0.00
35) Perylene-d12	23.398	264	2551	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0d	0.000	ng	
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.760	82	1567	0.284	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	56	0.008	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	66	0.060	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	4757	0.413	ng	0.00
27) Fluoranthene-d10	19.040	212	379	0.032	ng	0.00
31) Terphenyl-d14	19.644	244	3020	0.458	ng	-0.01
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.019	93	47114	7.584	ng	# 39
34) Bis(2-ethylhexyl)phtha...	21.126	149	718	0.100	ng	# 98

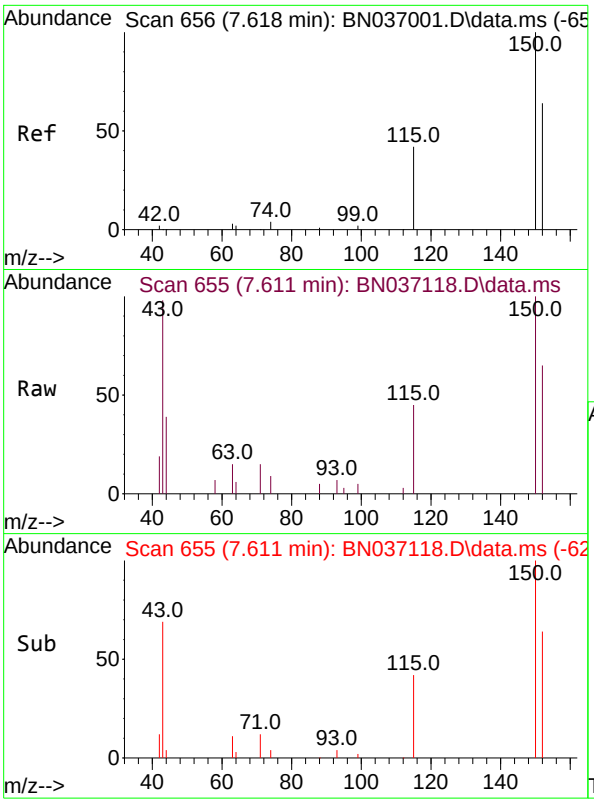
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037118.D
Acq On : 28 May 2025 20:47
Operator : RC/JU
Sample : Q2082-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Quant Time: May 29 01:33:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



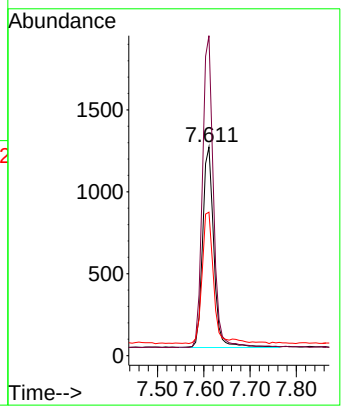


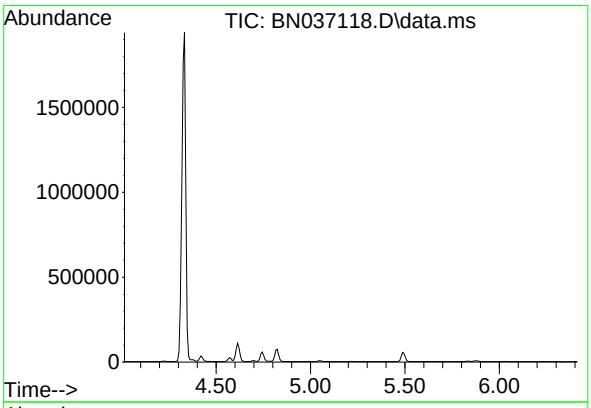
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Tgt Ion:152 Resp: 2059

Ion	Ratio	Lower	Upper
152	100		
150	153.4	123.9	185.9
115	68.8	55.8	83.8



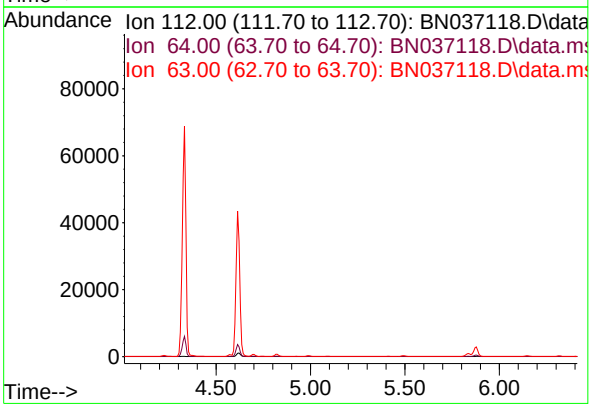


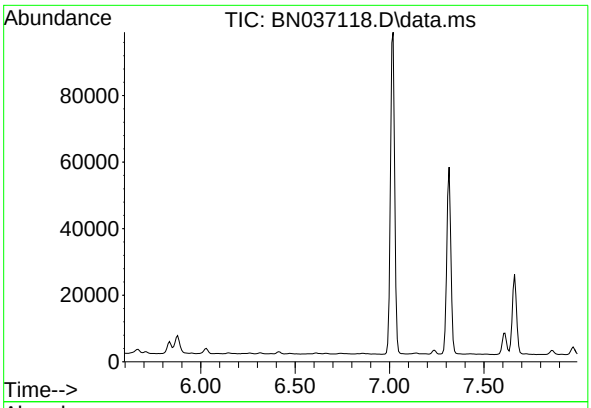
#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.21 min

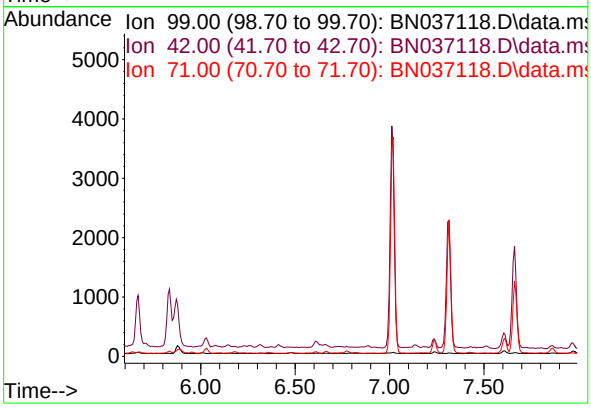
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	69.6
63	43.2







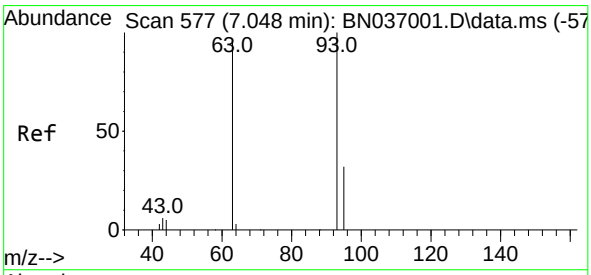
#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.79 min

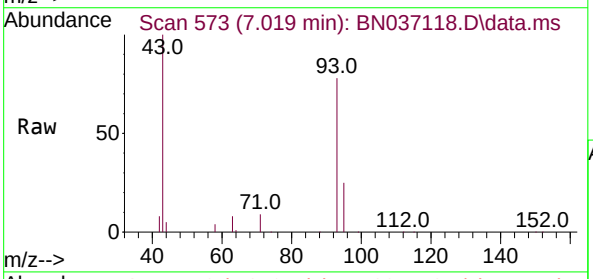
Lab File: BN037118.D
Acq: 28 May 2025 20:47

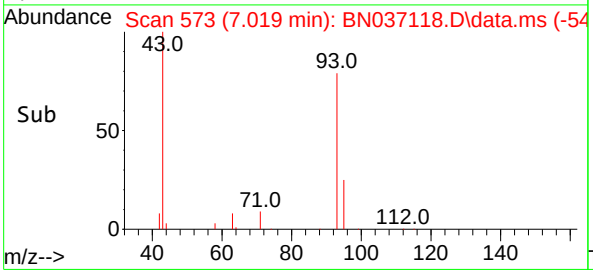
Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	36.6
71	44.6



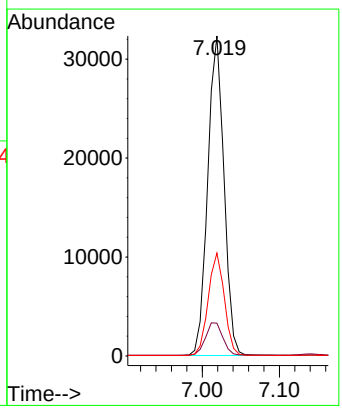


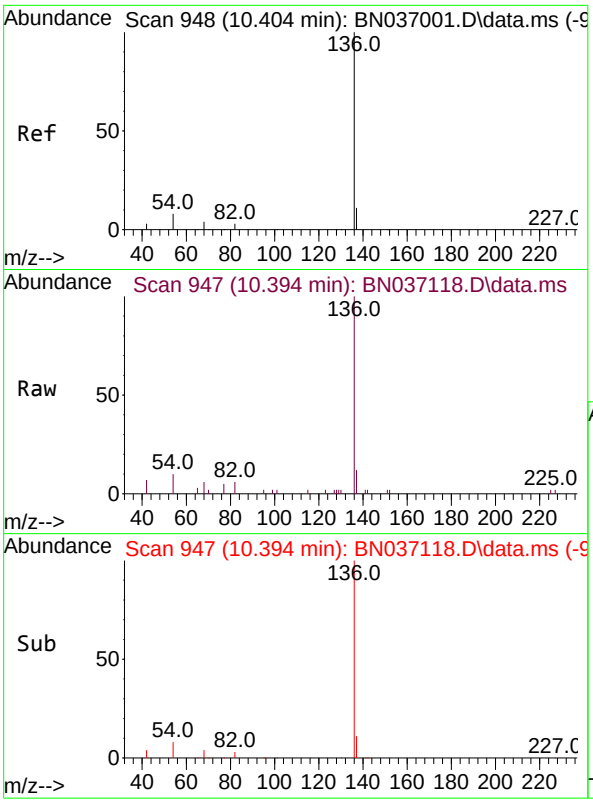


#6
bis(2-Chloroethyl)ether
Concen: 7.584 ng
RT: 7.019 min Scan# 573
Delta R.T. -0.029 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Tgt Ion: 93 Resp: 47114

Ion	Ratio	Lower	Upper
93	100		
63	10.8	70.1	105.1#
95	31.8	26.2	39.2



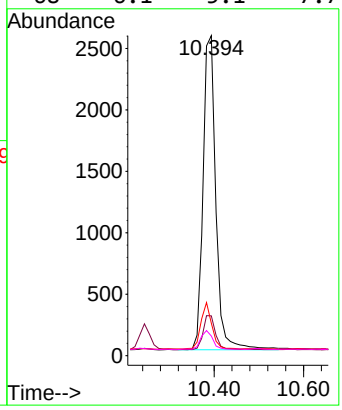


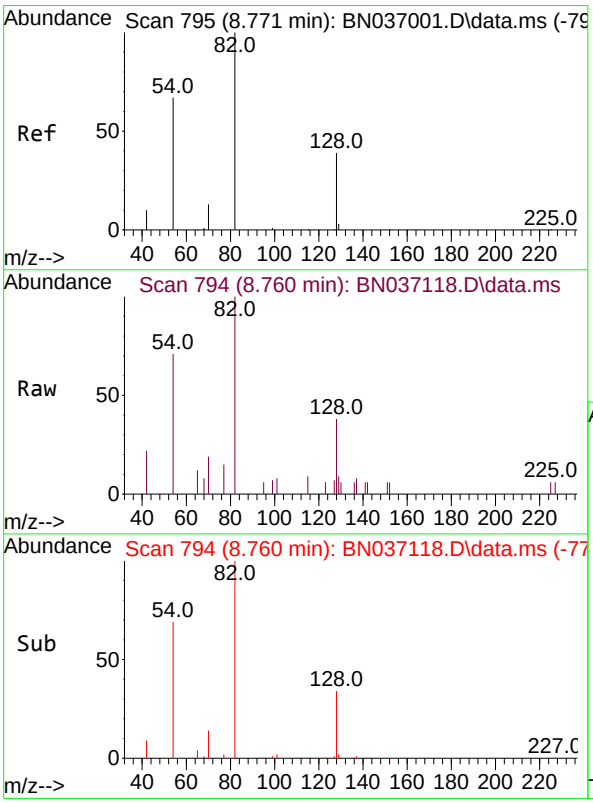
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Tgt Ion:136 Resp: 5062

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.4	15.6
54	10.1	8.5	12.7
68	6.1	5.1	7.7

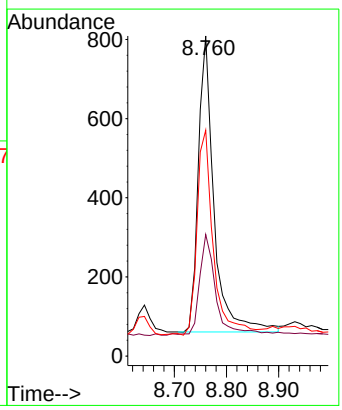


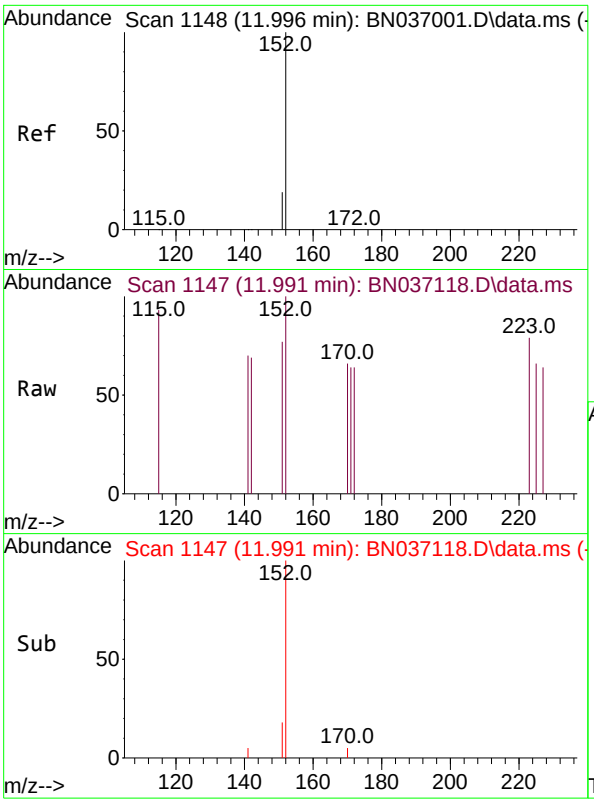


#8
Nitrobenzene-d5
Concen: 0.284 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.010 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Tgt Ion: 82 Resp: 1567

Ion	Ratio	Lower	Upper
82	100		
128	37.9	34.0	51.0
54	70.6	55.0	82.4



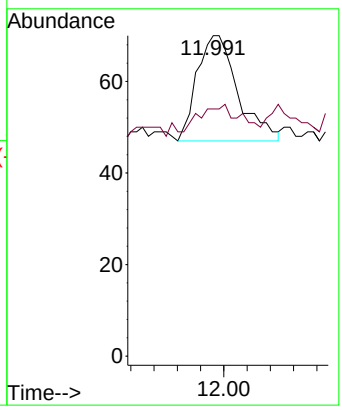


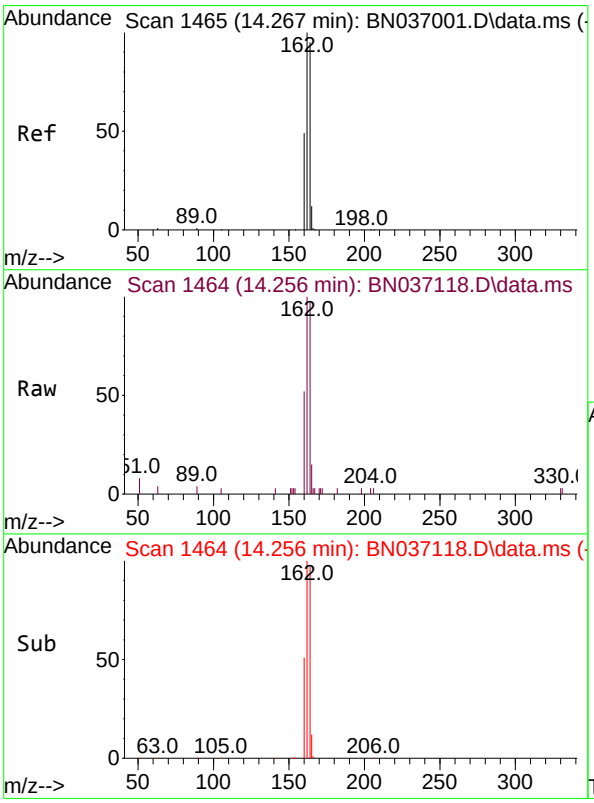
#11
2-Methylnaphthalene-d10
Concen: 0.008 ng
RT: 11.991 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Tgt Ion:152 Resp: 56

Ion	Ratio	Lower	Upper
152	100		
151	25.0	17.5	26.3

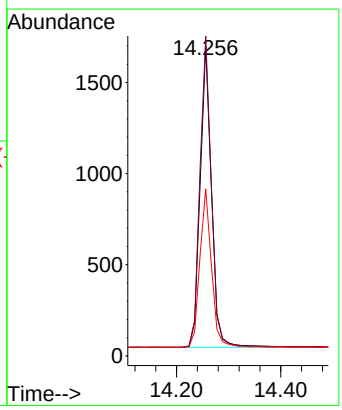


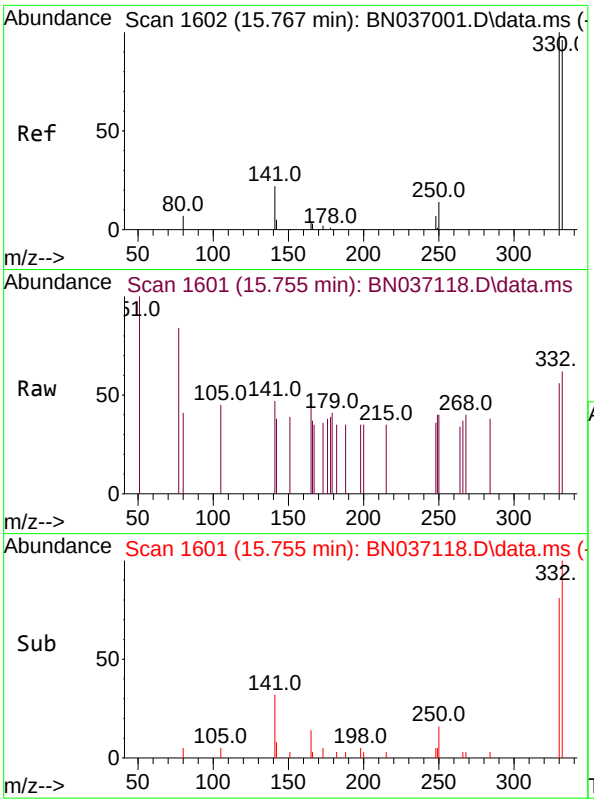


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Tgt Ion:164 Resp: 2514

Ion	Ratio	Lower	Upper
164	100		
162	103.2	84.2	126.4
160	53.9	42.6	63.8



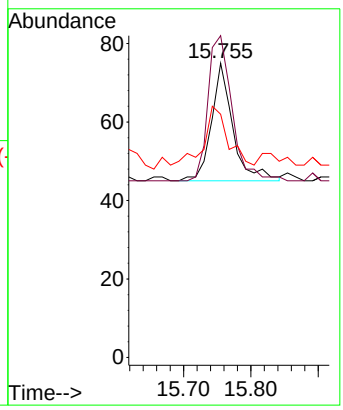


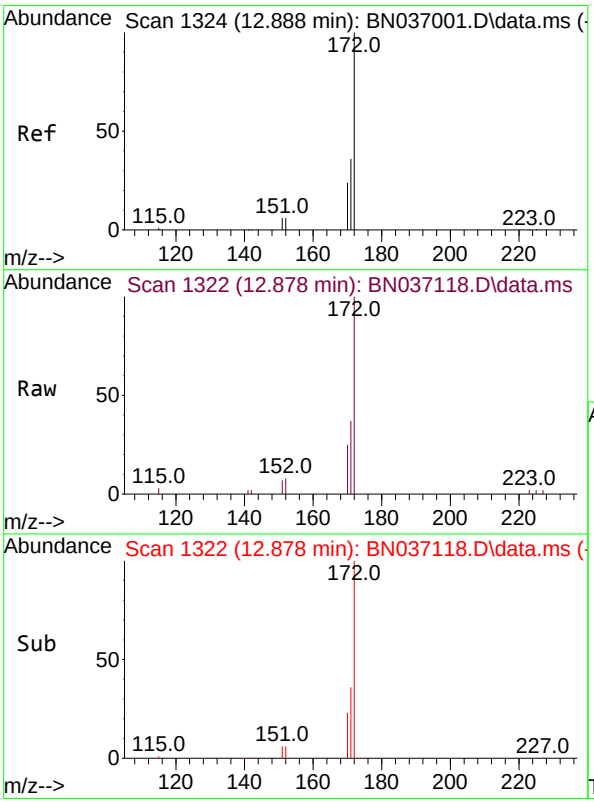
#14
2,4,6-Tribromophenol
Concen: 0.060 ng
RT: 15.755 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Tgt Ion:330 Resp: 66

Ion	Ratio	Lower	Upper
330	100		
332	139.4	73.8	110.8#
141	69.7	43.9	65.9#

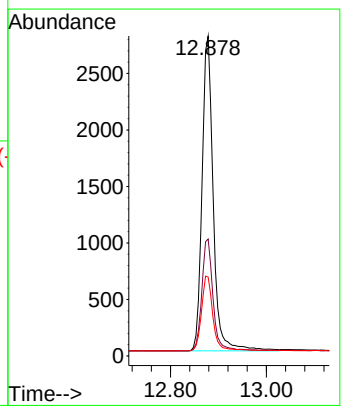


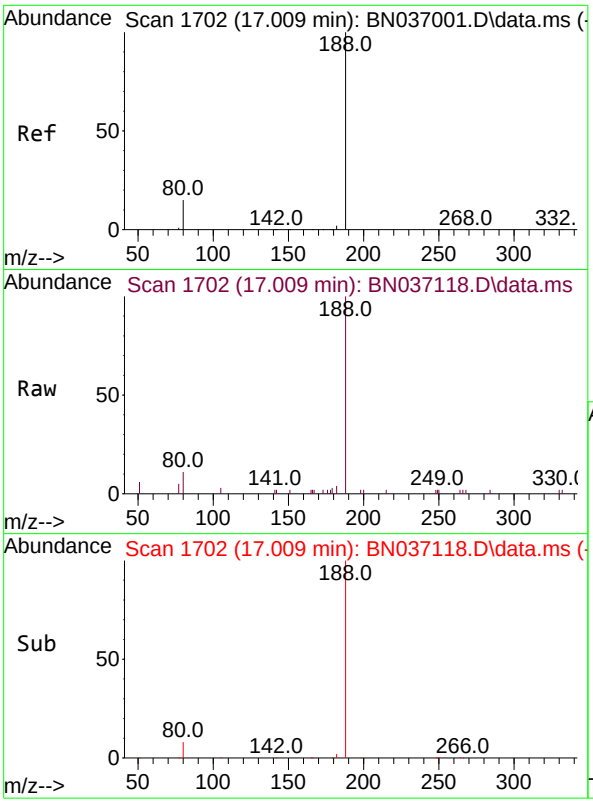


#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.878 min Scan# 1322
Delta R.T. -0.010 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Tgt Ion:172 Resp: 4757

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.6	20.5	30.7



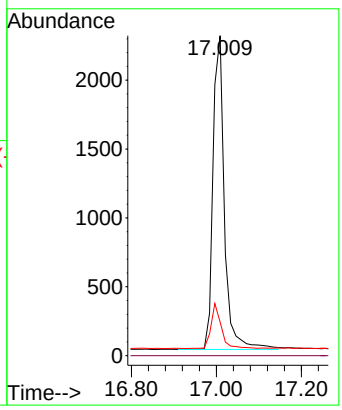


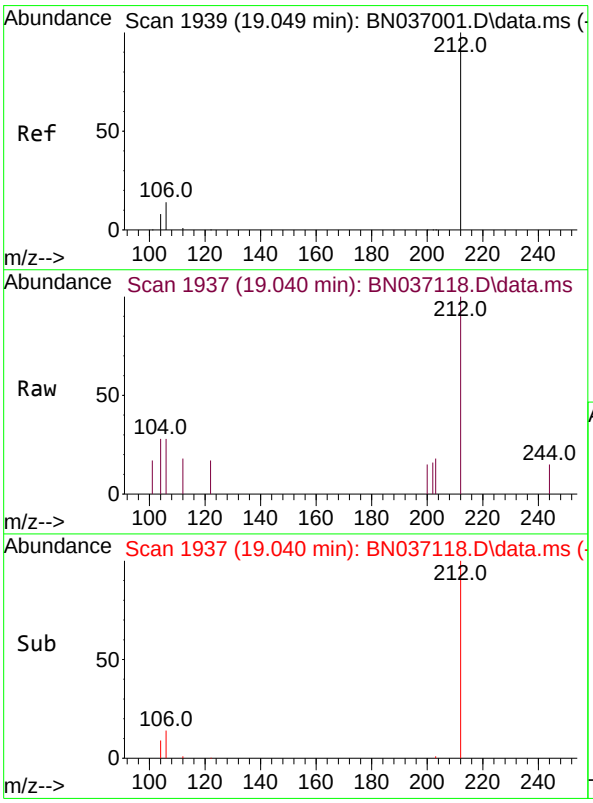
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Tgt Ion:188 Resp: 4253

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	13.4	20.0#

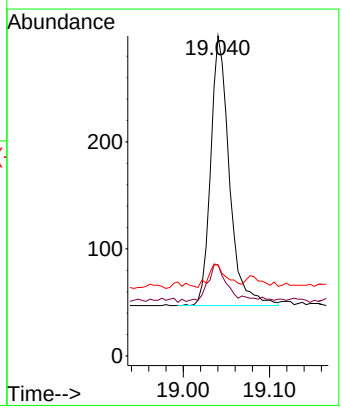


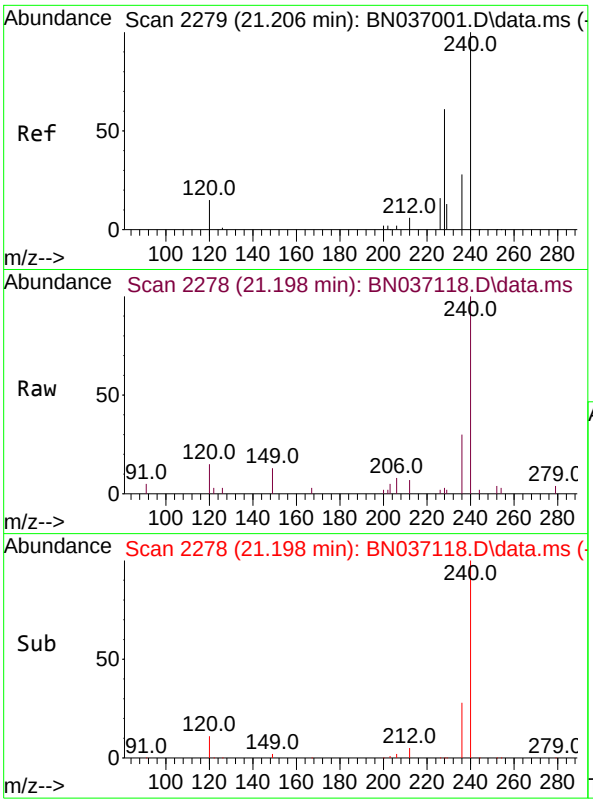


#27
Fluoranthene-d10
Concen: 0.032 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.009 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Tgt Ion:212 Resp: 379

Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.3	16.9
104	8.2	6.7	10.1



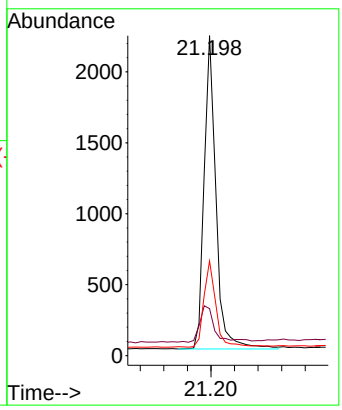


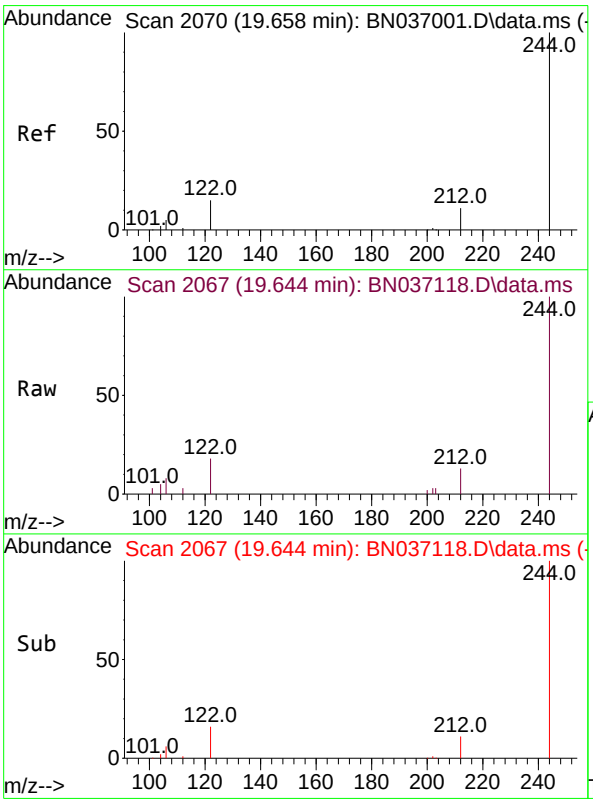
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Tgt Ion:240 Resp: 3086

Ion	Ratio	Lower	Upper
240	100		
120	14.7	15.1	22.7#
236	29.6	24.0	36.0

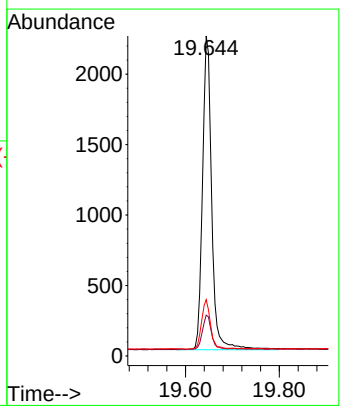


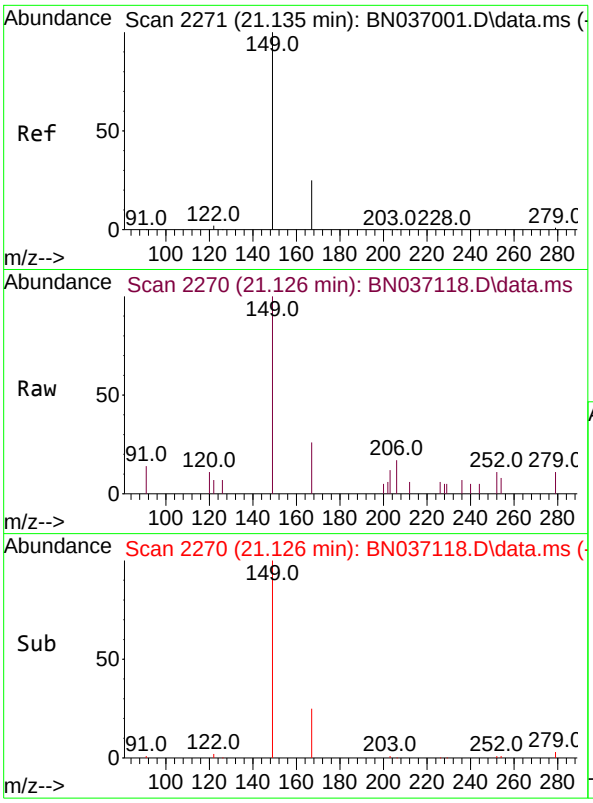


#31
Terphenyl-d14
Concen: 0.458 ng
RT: 19.644 min Scan# 2067
Delta R.T. -0.014 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Tgt Ion:244 Resp: 3020

Ion	Ratio	Lower	Upper
244	100		
212	12.8	9.7	14.5
122	17.6	13.4	20.0



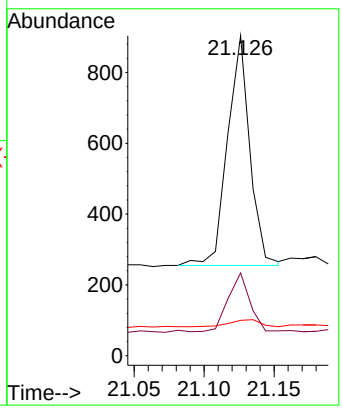


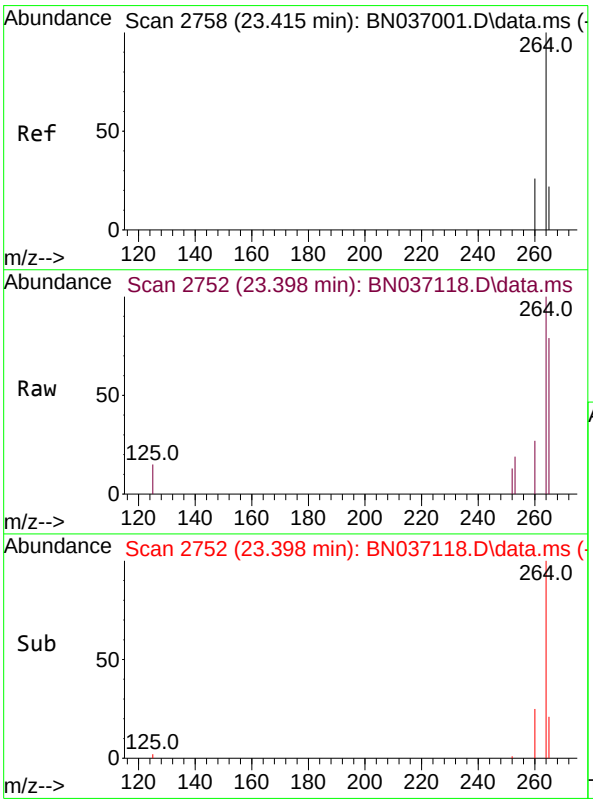
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 21.126 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Instrument :
BNA_N
ClientSampleId :
VPB182-HYD-20250516

Tgt Ion:149 Resp: 718

Ion	Ratio	Lower	Upper
149	100		
167	26.9	20.6	30.8
279	4.0	2.6	3.8#

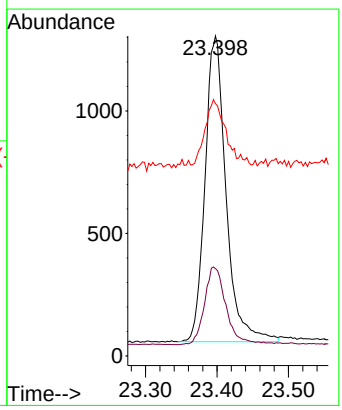




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.398 min Scan# 2752
Delta R.T. -0.017 min
Lab File: BN037118.D
Acq: 28 May 2025 20:47

Tgt Ion:264 Resp: 2551

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.9	32.9
265	78.9	51.6	77.4#



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 11:26:32 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036999.D 0.2 =BN037000.D 0.4 =BN037001.D 0.8 =BN037002.D 1.6 =BN037003.D 3.2 =BN037004.D 5.0 =BN037005.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		0.510	0.512	0.487	0.514	0.467	0.454	0.491	5.25
3)		n-Nitrosodimet...	1.465	0.974	0.980	0.971	1.075	0.967	0.950	1.054	17.59
4)	S	2-Fluorophenol		1.101	1.134	1.024	1.093	0.964	0.971	1.048	6.87
5)	S	Phenol-d6		1.304	1.385	1.236	1.392	1.259	1.292	1.311	4.91
6)		bis(2-Chloroet...	1.441	1.163	1.153	1.135	1.240	1.168	1.148	1.207	9.02
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.546	0.383	0.398	0.400	0.452	0.426	0.442	0.436	12.60
9)		Naphthalene	1.326	1.140	1.144	1.122	1.226	1.152	1.165	1.182	6.05
10)		Hexachlorobuta...	0.286	0.248	0.244	0.235	0.256	0.236	0.233	0.248	7.47
11)	SURR	2-Methylnaphth...	0.529	0.547	0.552	0.548	0.603	0.574	0.588	0.563	4.65
12)		2-Methylnaphth...	0.754	0.724	0.736	0.733	0.814	0.770	0.790	0.760	4.34
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.174	0.168	0.178	0.160	0.186	0.175	0.189	0.176	5.77
15)	S	2-Fluorobiphenyl	1.912	1.801	1.901	1.802	1.927	1.672	1.807	1.832	4.90
16)		Acenaphthylene	1.906	1.838	1.894	1.849	2.071	1.997	2.075	1.947	5.14
17)		Acenaphthene	1.255	1.229	1.243	1.217	1.350	1.298	1.315	1.272	3.89
18)		Fluorene	1.602	1.581	1.635	1.611	1.779	1.721	1.752	1.669	4.80
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.060	0.073	0.079	0.102	0.103	0.124	0.090	26.02
21)		4-Bromophenyl-...	0.243	0.246	0.250	0.247	0.262	0.261	0.259	0.253	3.13
22)		Hexachlorobenzene	0.267	0.269	0.281	0.259	0.281	0.270	0.267	0.270	3.03
23)		Atrazine	0.199	0.207	0.211	0.213	0.237	0.234	0.242	0.220	7.64
24)		Pentachlorophenol	0.133	0.134	0.141	0.137	0.159	0.162	0.177	0.149	11.45
25)		Phenanthrene	1.259	1.272	1.292	1.263	1.367	1.337	1.361	1.307	3.56
26)		Anthracene	1.099	1.104	1.166	1.130	1.269	1.259	1.300	1.190	7.13
27)	SURR	Fluoranthene-d10	1.033	1.033	1.078	1.042	1.153	1.161	1.178	1.097	5.95
28)		Fluoranthene	1.461	1.439	1.500	1.496	1.670	1.672	1.693	1.562	7.13
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.744	1.708	1.727	1.656	1.790	1.641	1.711	1.711	2.96
31)	S	Terphenyl-d14	0.897	0.844	0.871	0.822	0.891	0.816	0.848	0.856	3.73
32)		Benzo(a)anthra...	1.463	1.432	1.485	1.438	1.594	1.521	1.609	1.506	4.77
33)		Chrysene	1.655	1.559	1.616	1.532	1.653	1.560	1.576	1.593	3.05
34)		Bis(2-ethylhex...	0.955	0.919	0.906	0.855	0.941	0.903	1.011	0.927	5.27
35)	I	Perylene-d12	----------ISTD----------								

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN051425.M

36)		Indeno(1,2,3-c...	1.511	1.613	1.645	1.568	1.687	1.732	1.680	1.634	4.65
37)		Benzo(b)fluora...	1.631	1.570	1.602	1.599	1.749	1.698	1.765	1.659	4.71
38)		Benzo(k)fluora...	1.539	1.538	1.642	1.601	1.770	1.661	1.719	1.639	5.34
39)	C	Benzo(a)pyrene	1.380	1.343	1.381	1.331	1.486	1.444	1.486	1.407	4.59
40)		Dibenzo(a,h)an...	1.116	1.232	1.273	1.237	1.340	1.376	1.334	1.272	6.90
41)		Benzo(g,h,i)pe...	1.299	1.407	1.424	1.330	1.403	1.439	1.376	1.383	3.72

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036999.D
Acq On : 13 May 2025 17:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: May 14 10:59:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

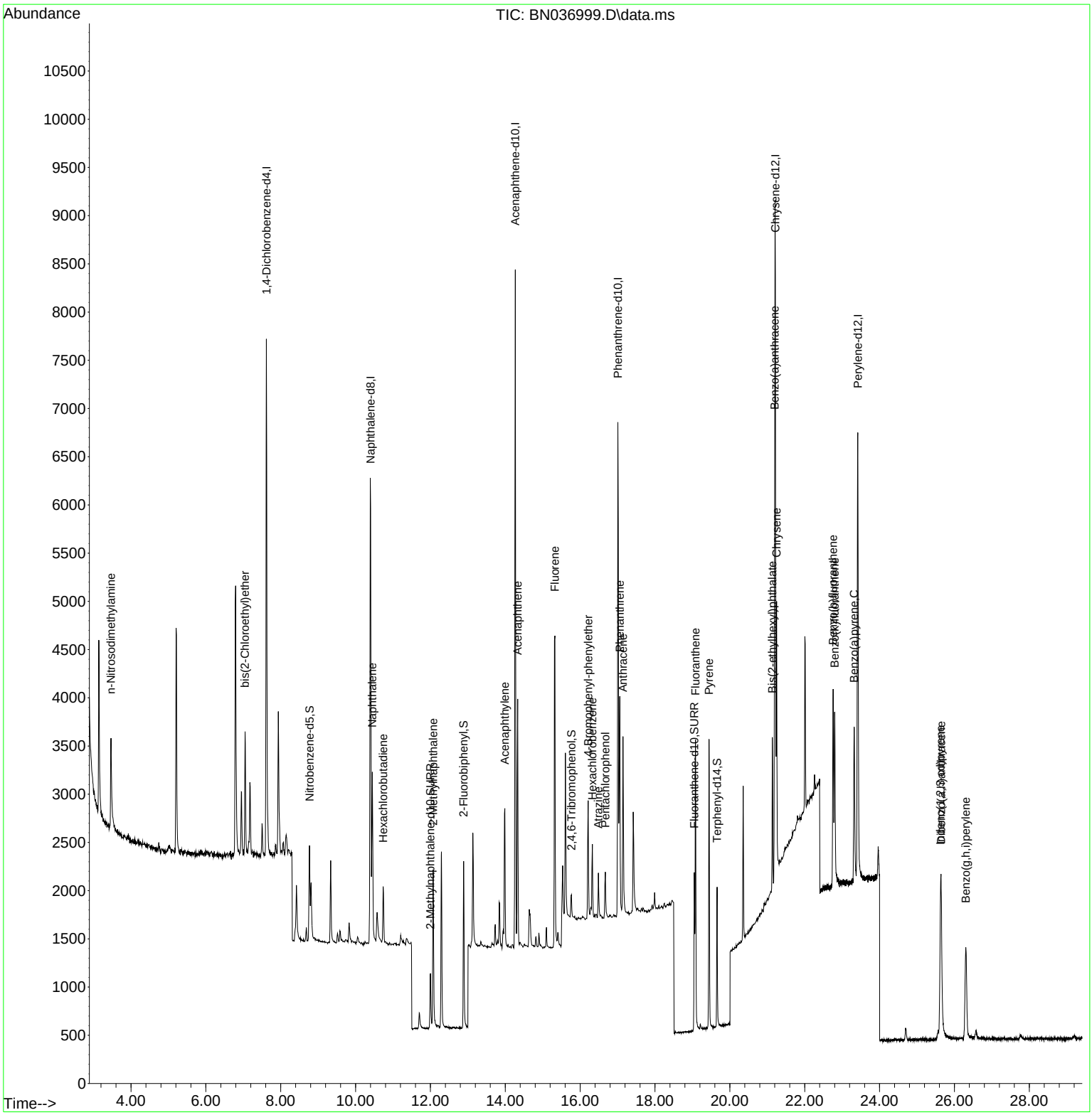
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	2512	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	6713	0.400	ng		0.00
13) Acenaphthene-d10	14.267	164	3705	0.400	ng		0.00
19) Phenanthrene-d10	17.009	188	7492	0.400	ng		0.00
29) Chrysene-d12	21.216	240	6297	0.400	ng	#	0.00
35) Perylene-d12	23.418	264	6037	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	0.000	112	0d	0.000	ng		
5) Phenol-d6	0.000	99	0d	0.000	ng		
8) Nitrobenzene-d5	8.771	82	917	0.125	ng		0.00
11) 2-Methylnaphthalene-d10	12.001	152	888	0.094	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	161	0.099	ng		0.00
15) 2-Fluorobiphenyl	12.889	172	1771	0.104	ng		0.00
27) Fluoranthene-d10	19.049	212	1934	0.094	ng		0.00
31) Terphenyl-d14	19.658	244	1412	0.105	ng		0.00
Target Compounds							Qvalue
3) n-Nitrosodimethylamine	3.466	42	920	0.139	ng	#	94
6) bis(2-Chloroethyl)ether	7.048	93	905	0.119	ng		98
9) Naphthalene	10.447	128	2225	0.112	ng		97
10) Hexachlorobutadiene	10.735	225	480	0.115	ng	#	100
12) 2-Methylnaphthalene	12.072	142	1266	0.099	ng		98
16) Acenaphthylene	13.989	152	1765	0.098	ng		99
17) Acenaphthene	14.331	154	1162	0.099	ng		99
18) Fluorene	15.325	166	1484	0.096	ng		99
21) 4-Bromophenyl-phenylether	16.214	248	455	0.096	ng		98
22) Hexachlorobenzene	16.326	284	500	0.099	ng		97
23) Atrazine	16.487	200	372	0.090	ng	#	93
24) Pentachlorophenol	16.674	266	249	0.088	ng		97
25) Phenanthrene	17.058	178	2359	0.096	ng		99
26) Anthracene	17.145	178	2059	0.092	ng		99
28) Fluoranthene	19.082	202	2737	0.094	ng		100
30) Pyrene	19.444	202	2745	0.102	ng		100
32) Benzo(a)anthracene	21.198	228	2303	0.097	ng		96
33) Chrysene	21.251	228	2605	0.104	ng		97
34) Bis(2-ethylhexyl)phtha...	21.135	149	1504	0.103	ng		99
36) Indeno(1,2,3-cd)pyrene	25.629	276	2280	0.092	ng		97
37) Benzo(b)fluoranthene	22.758	252	2461	0.098	ng	#	75
38) Benzo(k)fluoranthene	22.801	252	2322	0.094	ng	#	73
39) Benzo(a)pyrene	23.322	252	2083	0.098	ng	#	62
40) Dibenzo(a,h)anthracene	25.646	278	1685	0.088	ng	#	78
41) Benzo(g,h,i)perylene	26.304	276	1960	0.094	ng	#	87

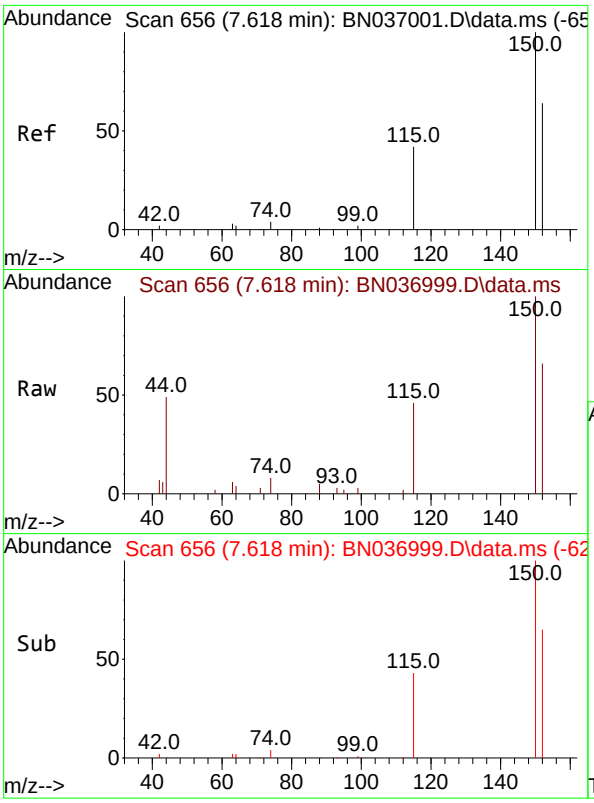
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036999.D
Acq On : 13 May 2025 17:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: May 14 10:59:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



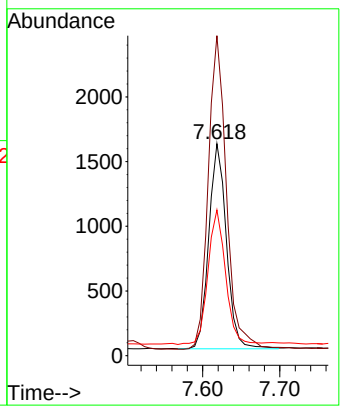


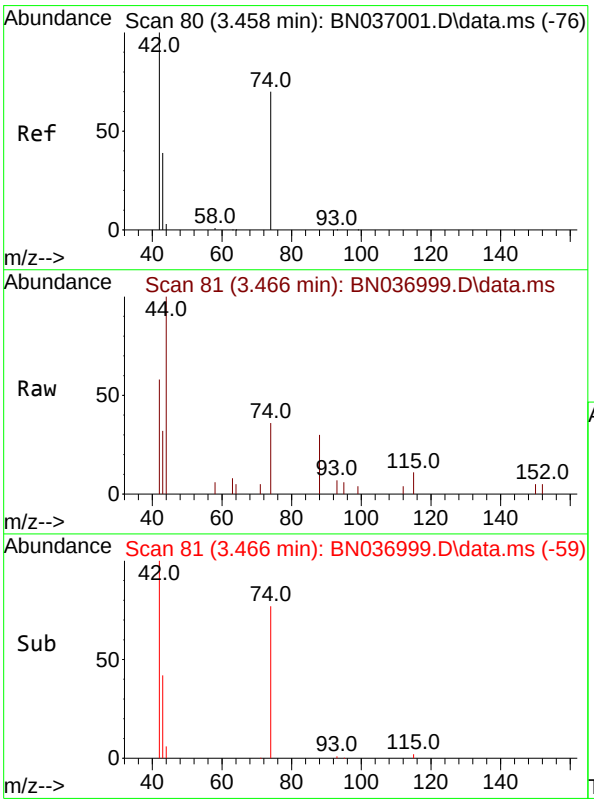
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2512

Ion	Ratio	Lower	Upper
152	100		
150	150.9	123.9	185.9
115	68.7	55.8	83.8

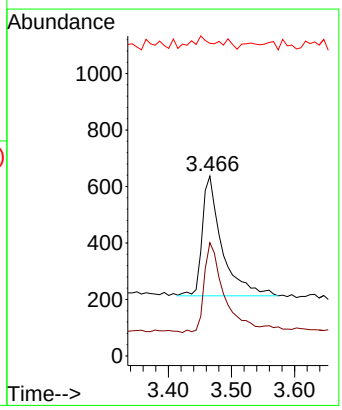


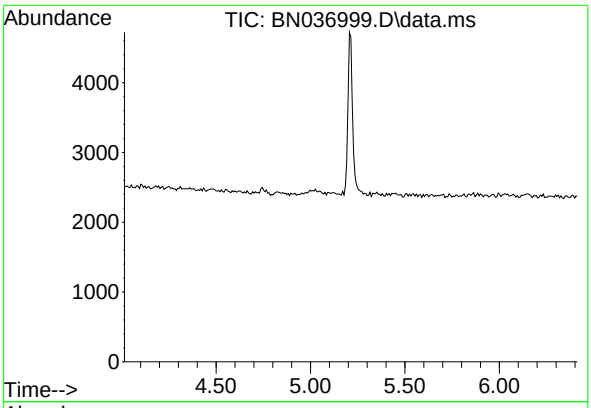


#3
n-Nitrosodimethylamine
Concen: 0.139 ng
RT: 3.466 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion: 42 Resp: 920

Ion	Ratio	Lower	Upper
42	100		
74	76.3	59.8	89.6
44	4.1	11.9	17.9#





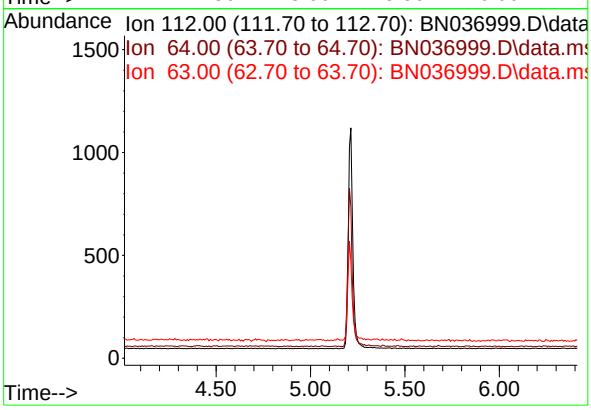
#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.21 min

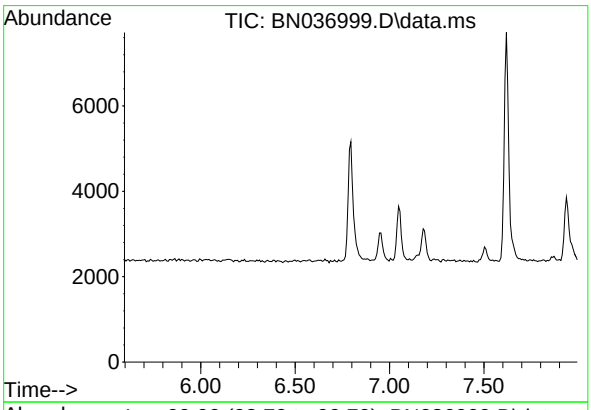
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	69.6
63	43.2



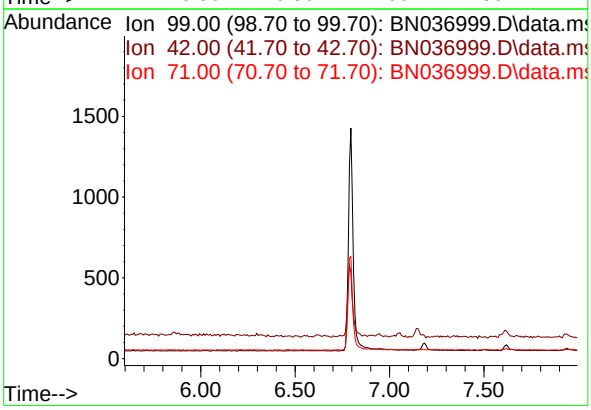


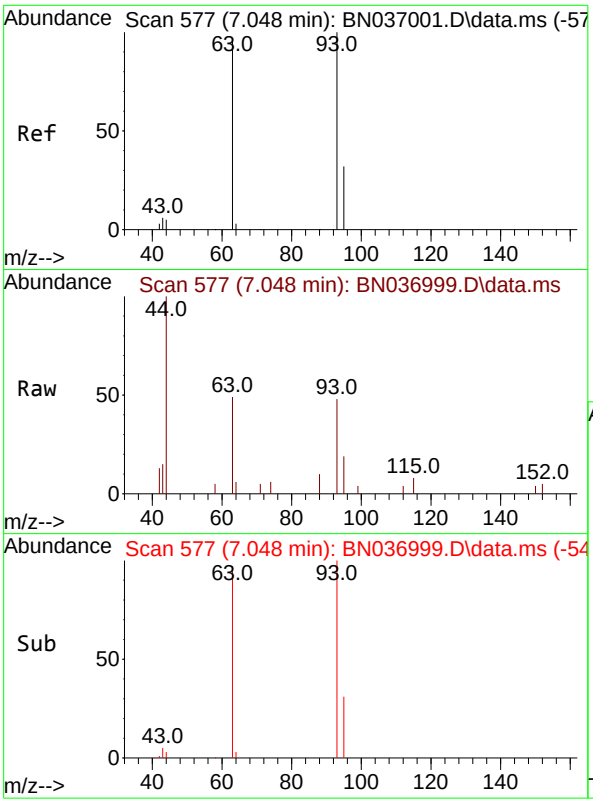
#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.79 min

Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	36.6
71	44.6



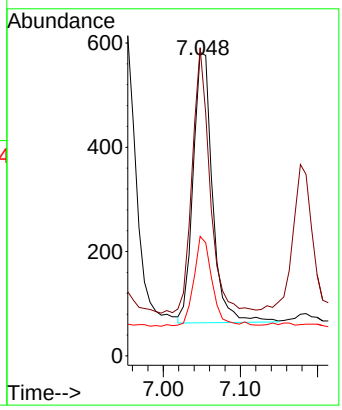


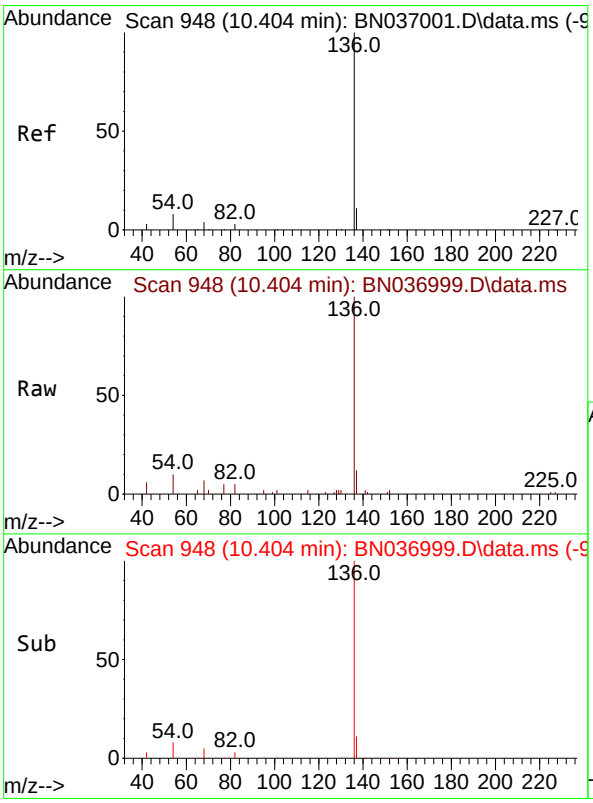
#6
bis(2-Chloroethyl)ether
Concen: 0.119 ng
RT: 7.048 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 93 Resp: 905

Ion	Ratio	Lower	Upper
93	100		
63	90.2	70.1	105.1
95	32.2	26.2	39.2

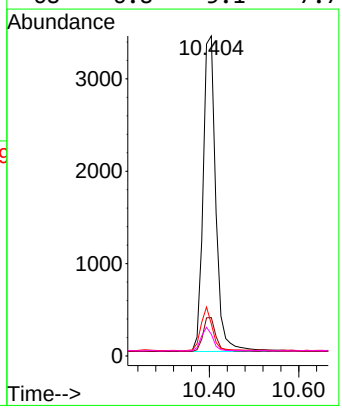


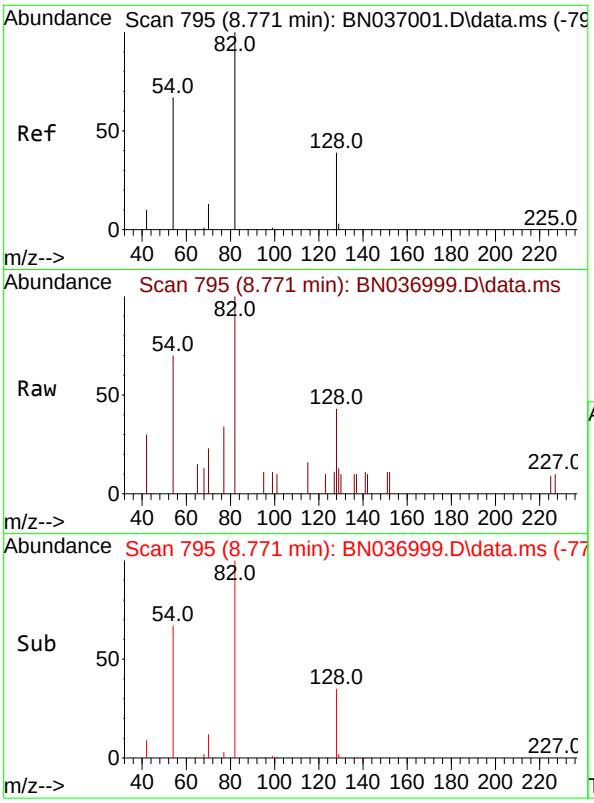


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:136 Resp: 6713

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.4	15.6
54	10.0	8.5	12.7
68	6.8	5.1	7.7



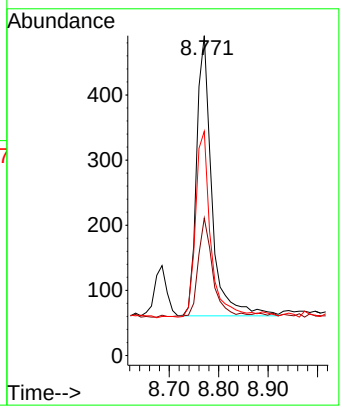


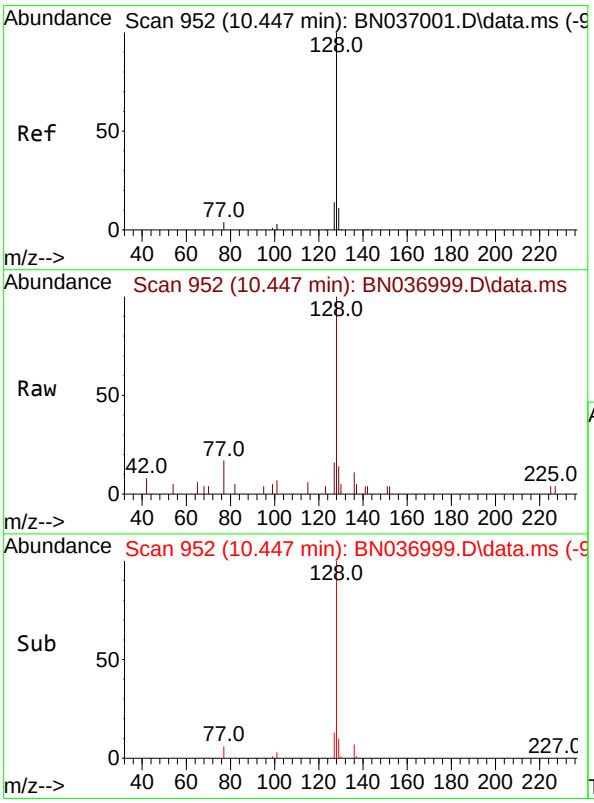
#8
Nitrobenzene-d5
Concen: 0.125 ng
RT: 8.771 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 82 Resp: 917

Ion	Ratio	Lower	Upper
82	100		
128	43.0	34.0	51.0
54	70.1	55.0	82.4

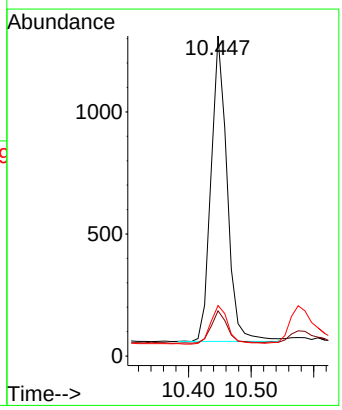


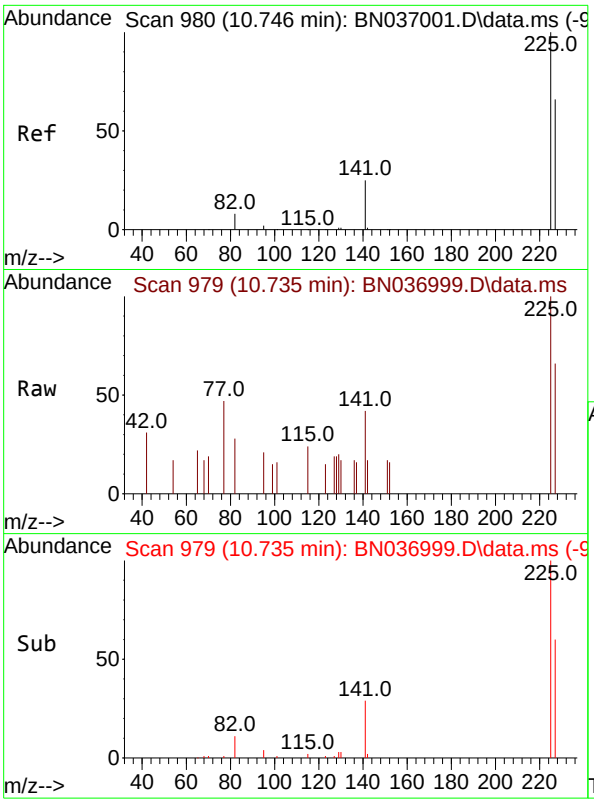


#9
Naphthalene
Concen: 0.112 ng
RT: 10.447 min Scan# 952
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:128 Resp: 2225

Ion	Ratio	Lower	Upper
128	100		
129	14.1	9.7	14.5
127	15.8	12.4	18.6



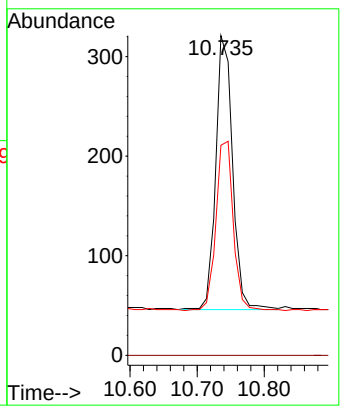


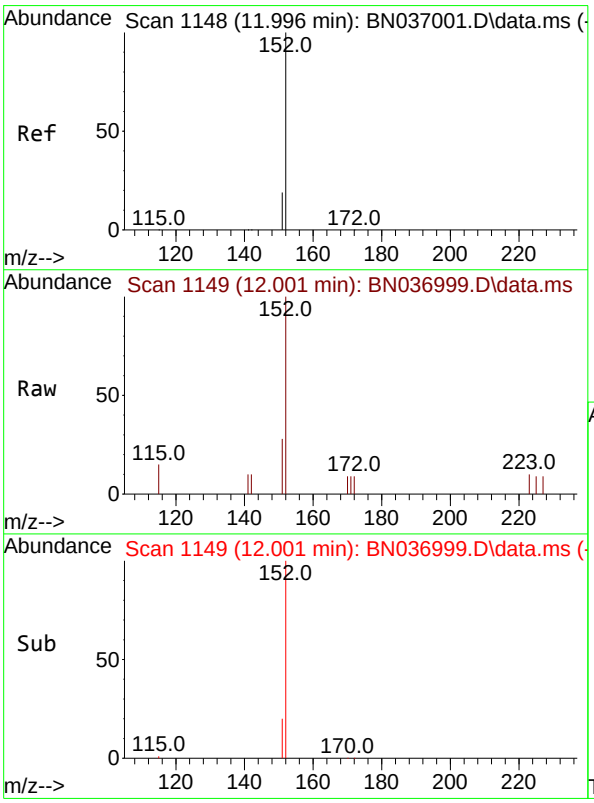
#10
Hexachlorobutadiene
Concen: 0.115 ng
RT: 10.735 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:225 Resp: 480

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	50.9	76.3

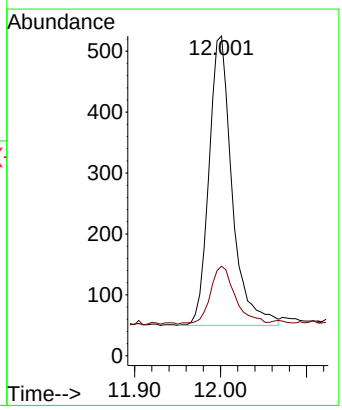


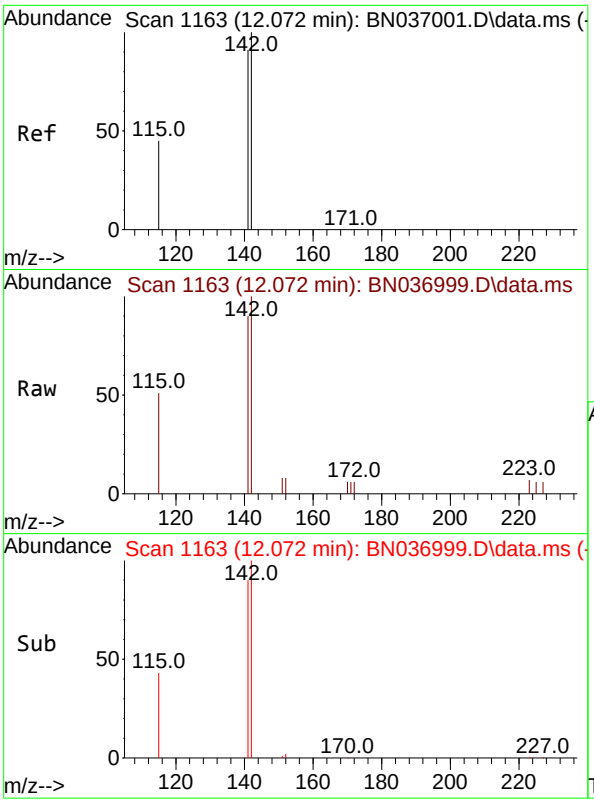


#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.001 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:152 Resp: 888

Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.5	26.3



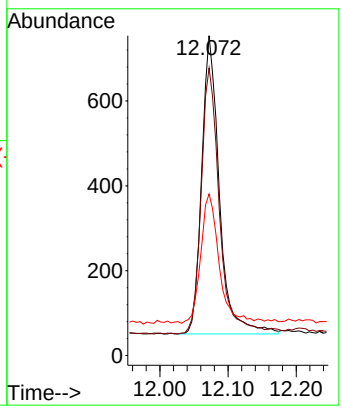


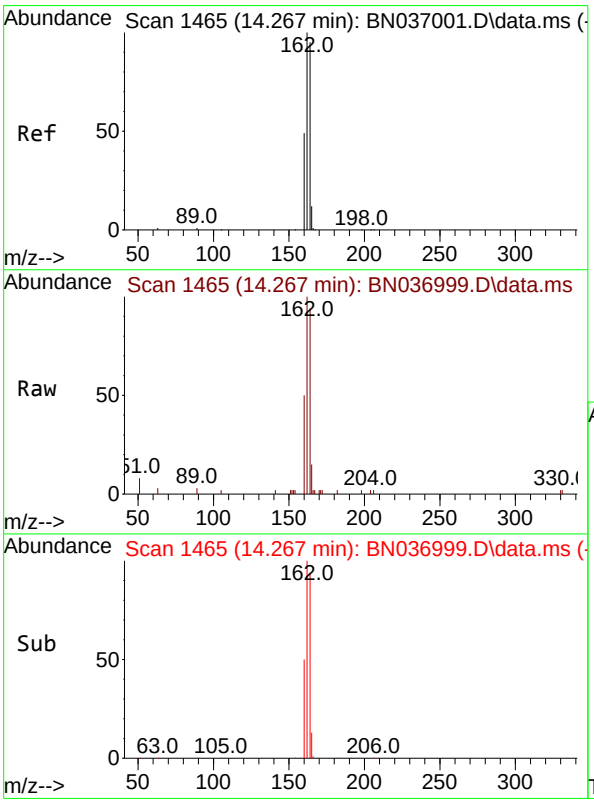
#12
2-Methylnaphthalene
Concen: 0.099 ng
RT: 12.072 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:142 Resp: 1266

Ion	Ratio	Lower	Upper
142	100		
141	89.9	73.3	109.9
115	50.5	38.4	57.6

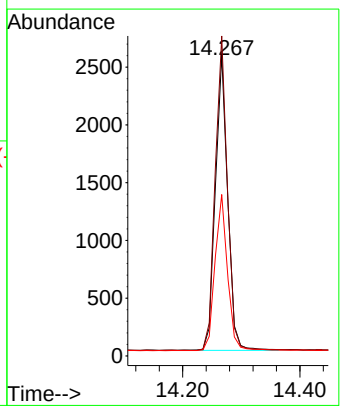


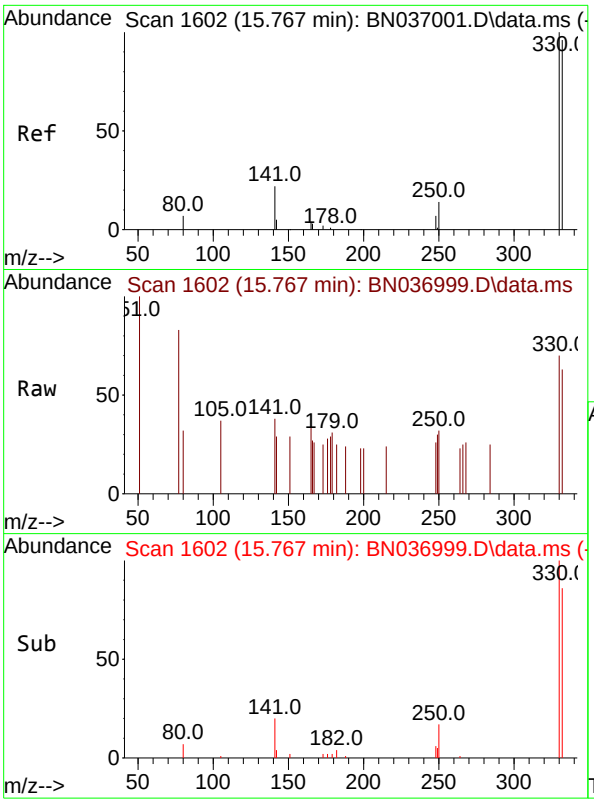


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:164 Resp: 3705

Ion	Ratio	Lower	Upper
164	100		
162	106.3	84.2	126.4
160	53.6	42.6	63.8



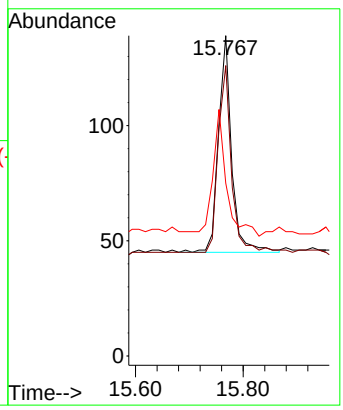


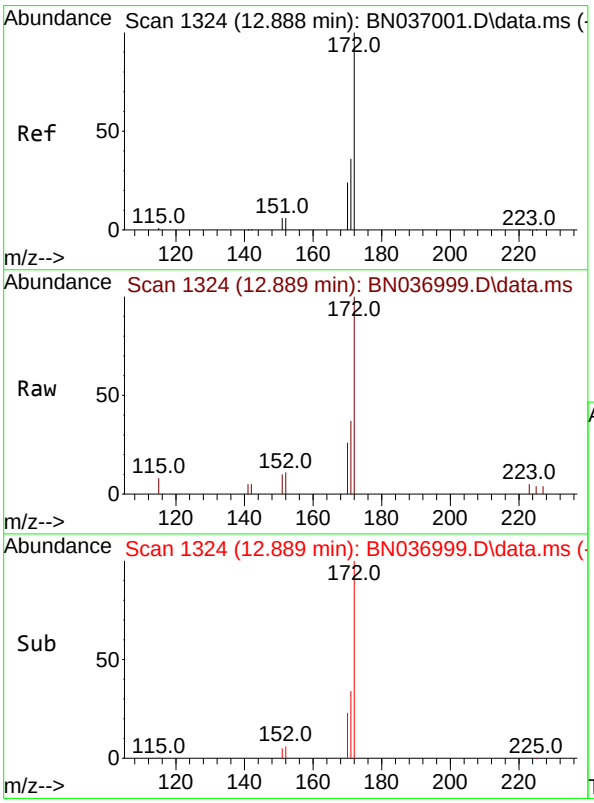
#14
2,4,6-Tribromophenol
Concen: 0.099 ng
RT: 15.767 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:330 Resp: 161

Ion	Ratio	Lower	Upper
330	100		
332	87.0	73.8	110.8
141	60.2	43.9	65.9

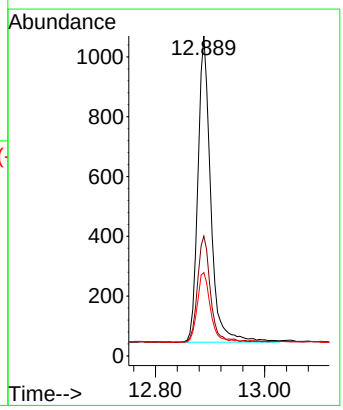


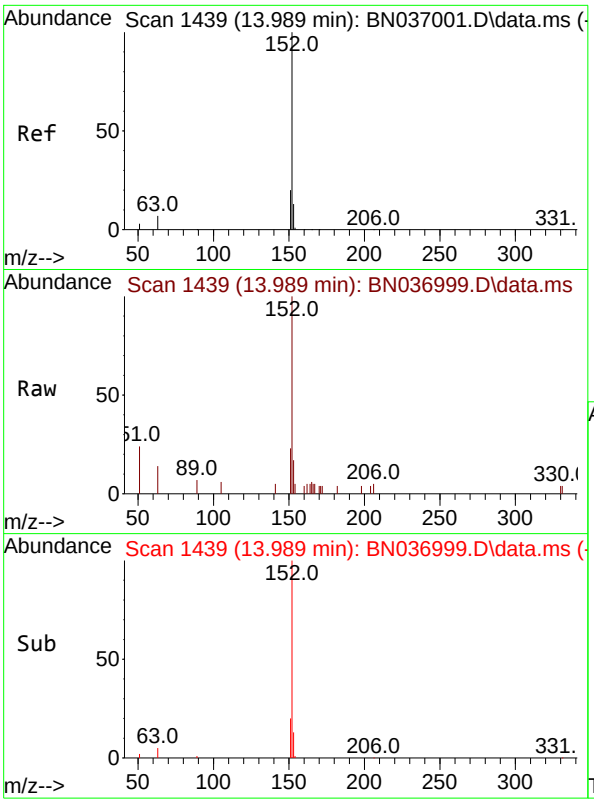


#15
2-Fluorobiphenyl
Concen: 0.104 ng
RT: 12.889 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:172 Resp: 1771

Ion	Ratio	Lower	Upper
172	100		
171	37.5	29.2	43.8
170	26.1	20.5	30.7



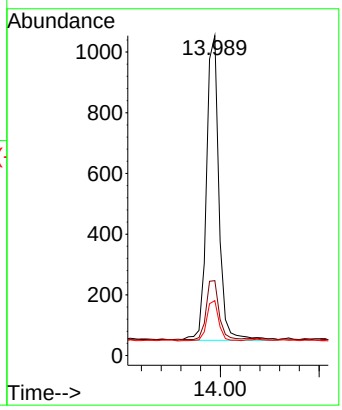


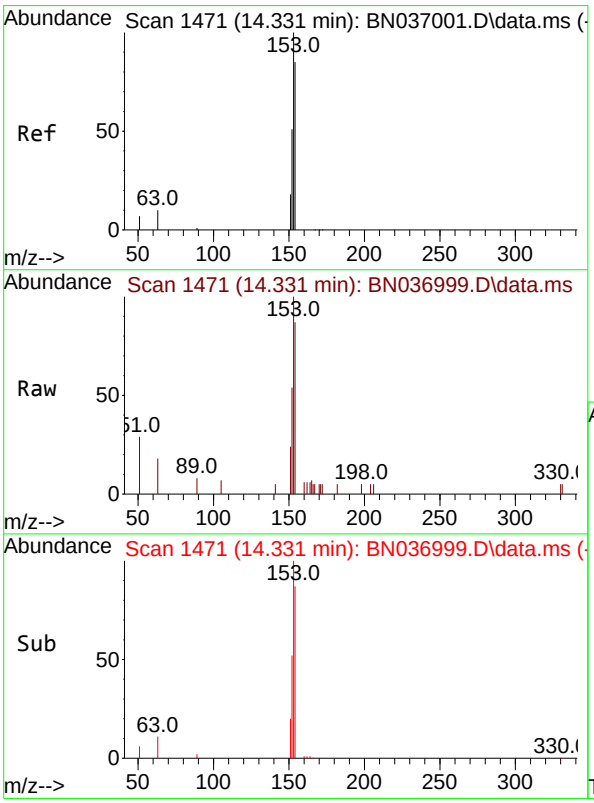
#16
Acenaphthylene
Concen: 0.098 ng
RT: 13.989 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 1765

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.1	24.1
153	12.5	10.5	15.7

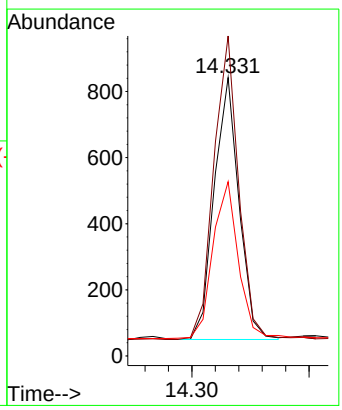


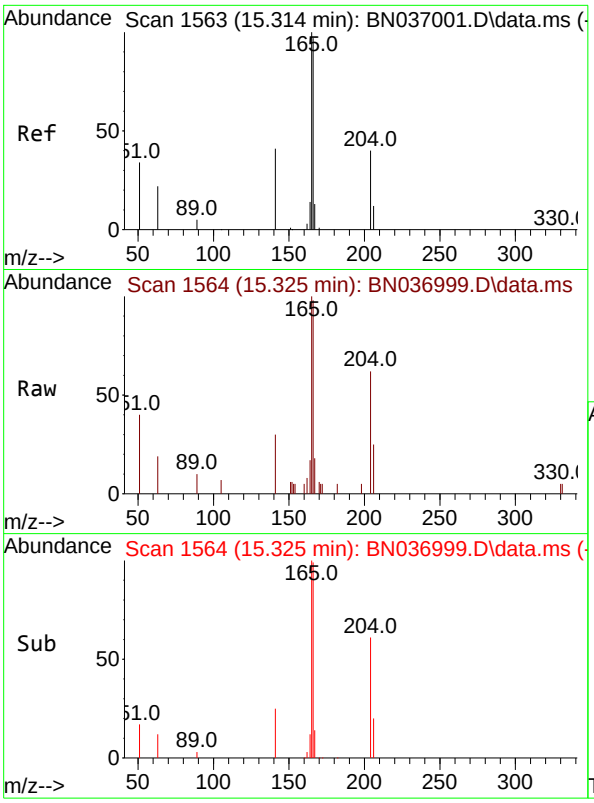


#17
Acenaphthene
Concen: 0.099 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:154 Resp: 1162

Ion	Ratio	Lower	Upper
154	100		
153	117.2	94.2	141.4
152	62.1	49.4	74.0



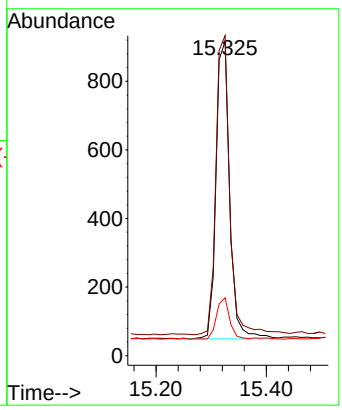


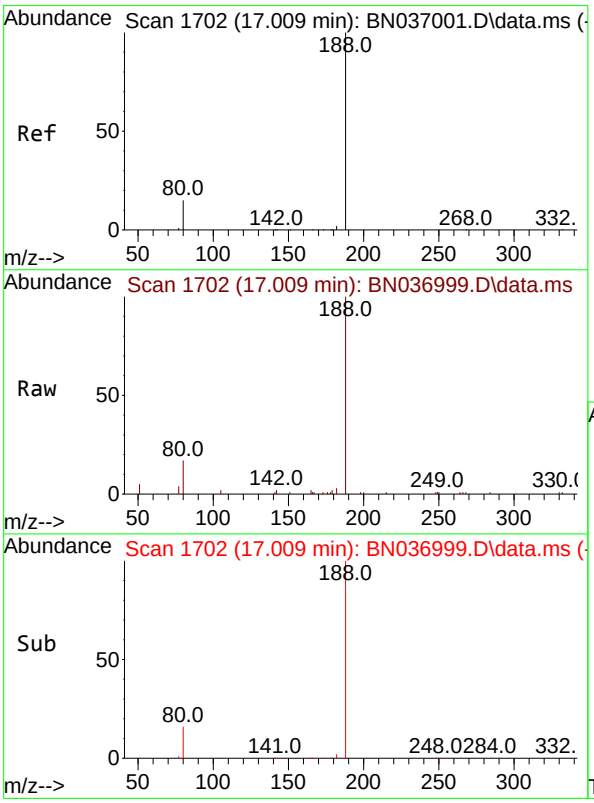
#18
Fluorene
Concen: 0.096 ng
RT: 15.325 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:166 Resp: 1484

Ion	Ratio	Lower	Upper
166	100		
165	102.0	80.6	120.8
167	13.3	10.6	16.0

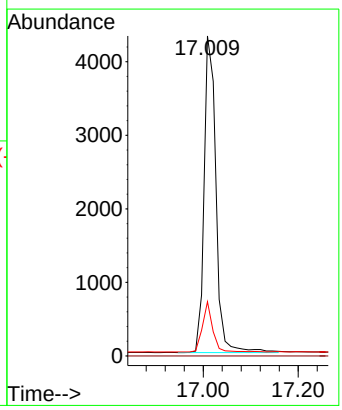


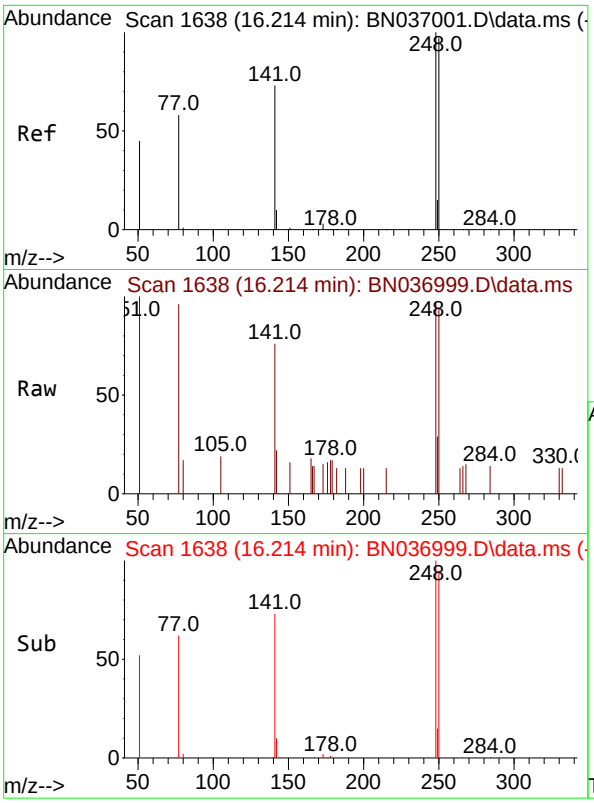


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:188 Resp: 7492

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.9	13.4	20.0



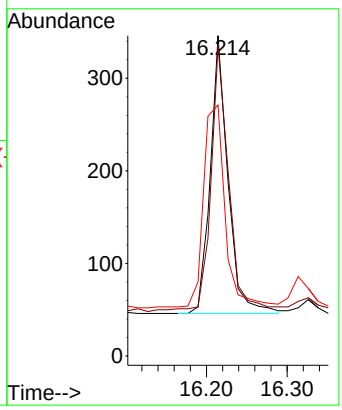


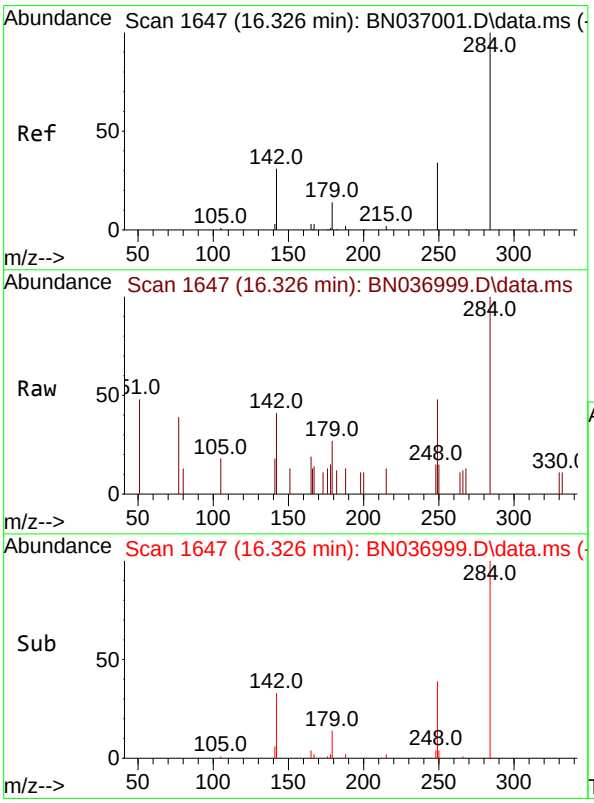
#21
4-Bromophenyl-phenylether
Concen: 0.096 ng
RT: 16.214 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 455

Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.1	117.1
141	78.3	59.7	89.5

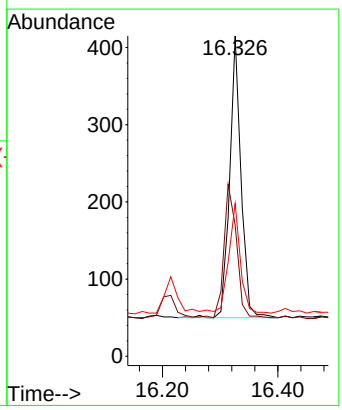


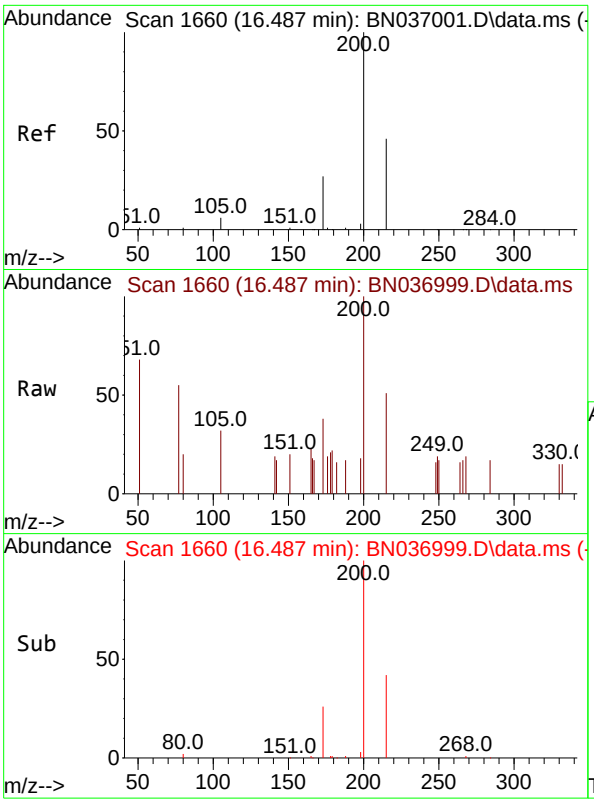


#22
Hexachlorobenzene
Concen: 0.099 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:284 Resp: 500

Ion	Ratio	Lower	Upper
284	100		
142	52.2	41.2	61.8
249	40.0	28.7	43.1



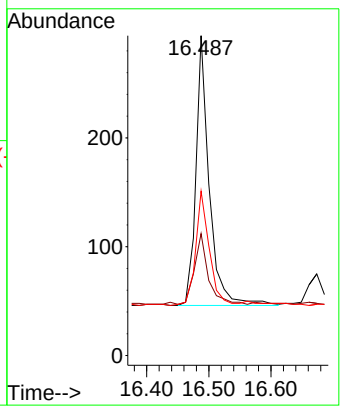


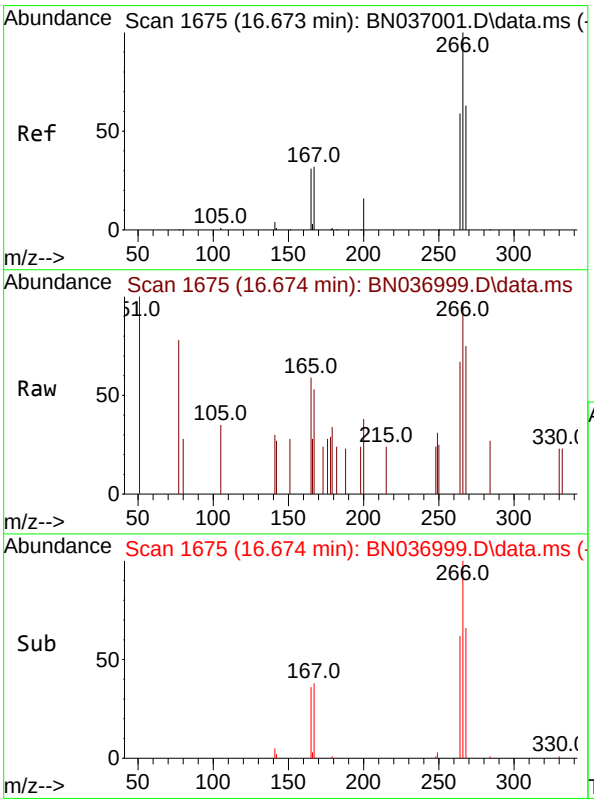
#23
Atrazine
Concen: 0.090 ng
RT: 16.487 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 372

Ion	Ratio	Lower	Upper
200	100		
173	38.1	25.2	37.8#
215	51.4	39.3	58.9

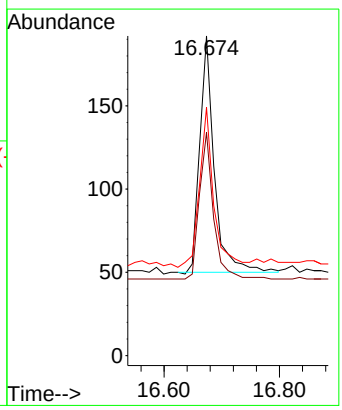


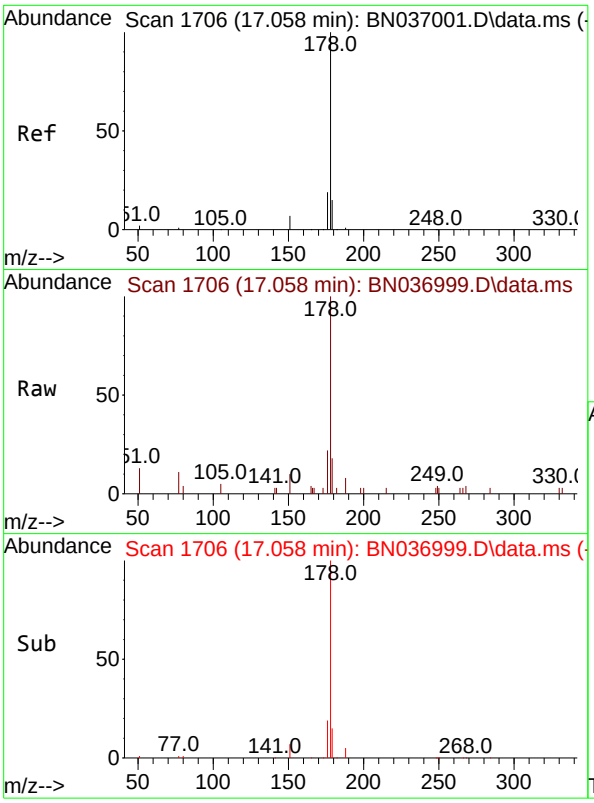


#24
Pentachlorophenol
Concen: 0.088 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:266 Resp: 249

Ion	Ratio	Lower	Upper
266	100		
264	59.8	47.9	71.9
268	66.7	50.0	75.0



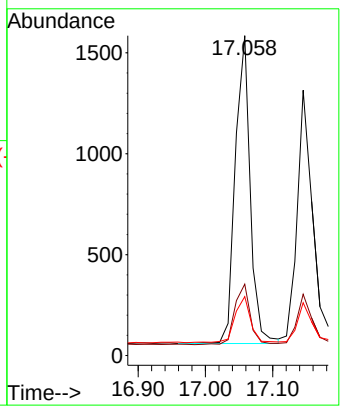


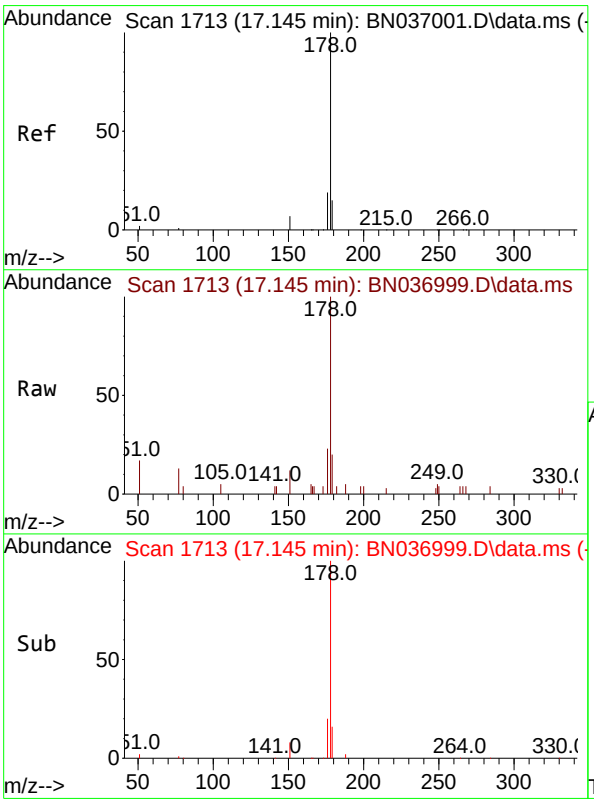
#25
Phenanthrene
Concen: 0.096 ng
RT: 17.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2359

Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.7	23.5
179	15.7	12.2	18.2

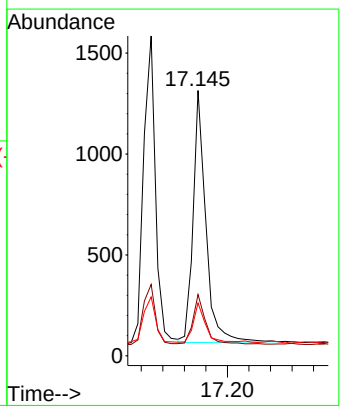


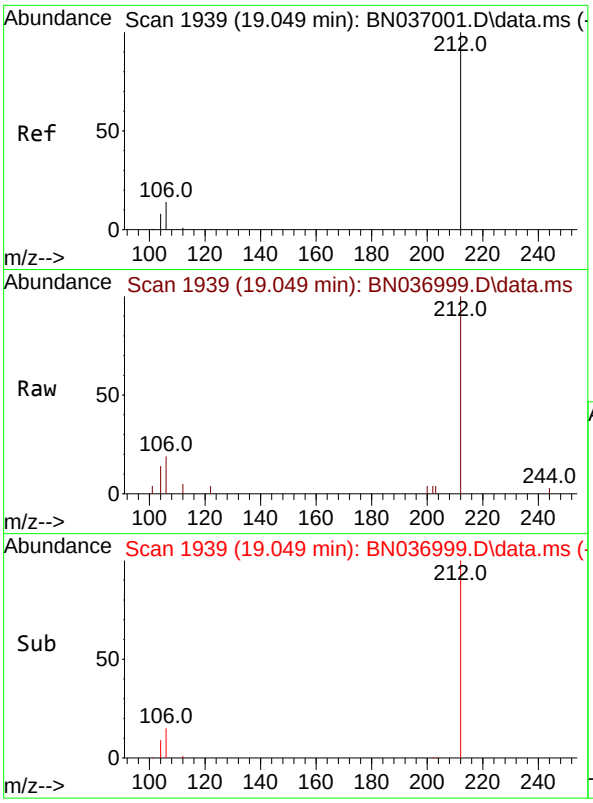


#26
Anthracene
Concen: 0.092 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:178 Resp: 2059

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.0	22.6
179	15.3	12.3	18.5



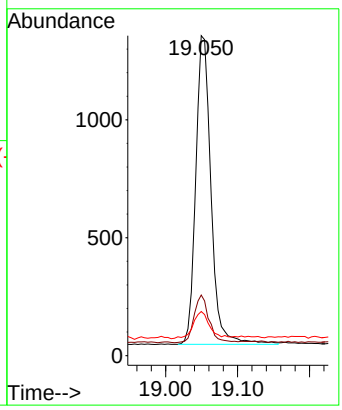


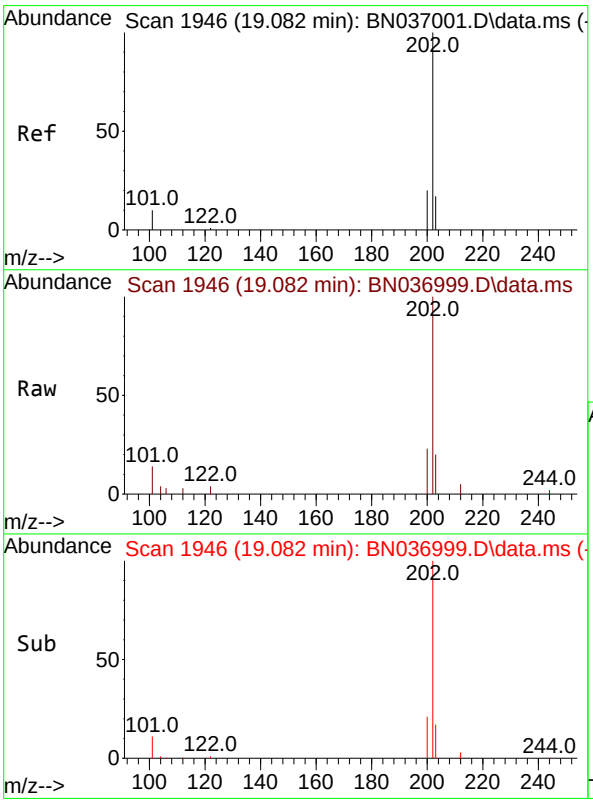
#27
Fluoranthene-d10
Concen: 0.094 ng
RT: 19.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 1934

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.3	16.9
104	9.6	6.7	10.1

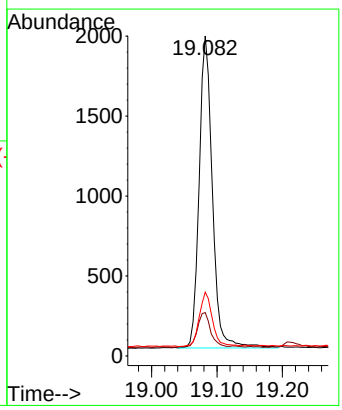


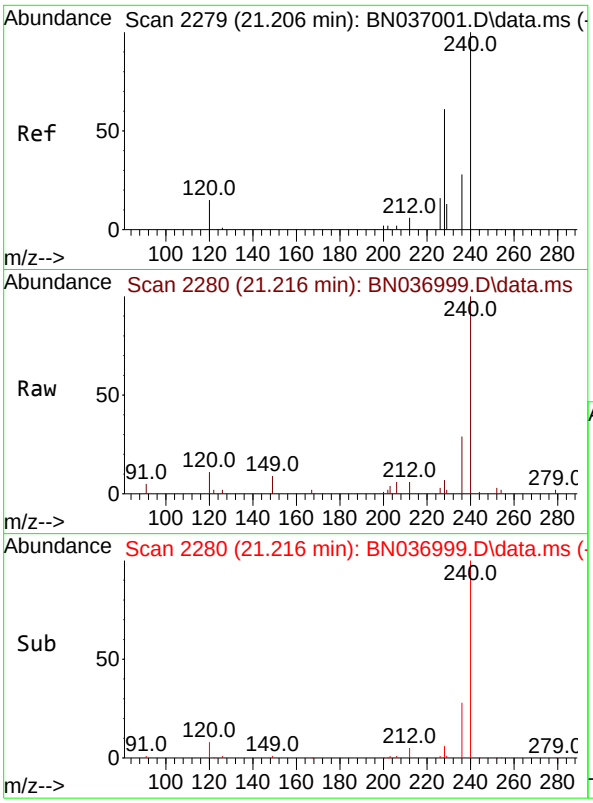


#28
Fluoranthene
Concen: 0.094 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:202 Resp: 2737

Ion	Ratio	Lower	Upper
202	100		
101	11.4	8.9	13.3
203	17.3	13.8	20.8



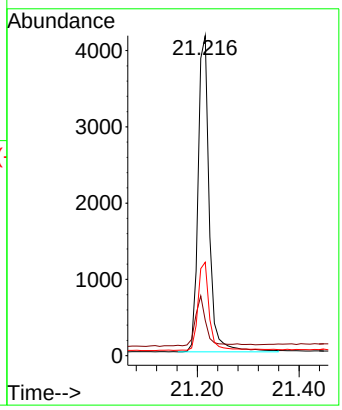


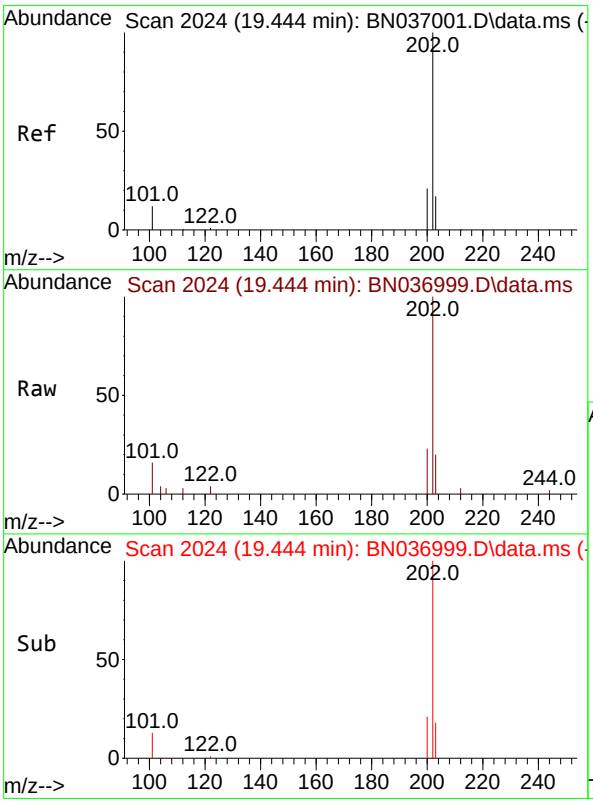
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 6297

Ion	Ratio	Lower	Upper
240	100		
120	11.0	15.1	22.7#
236	29.2	24.0	36.0

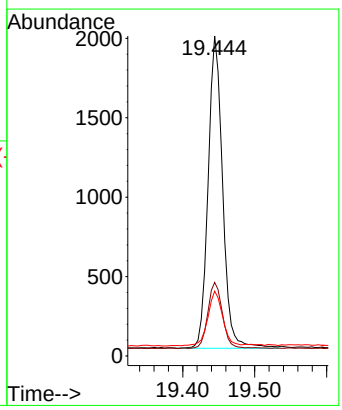


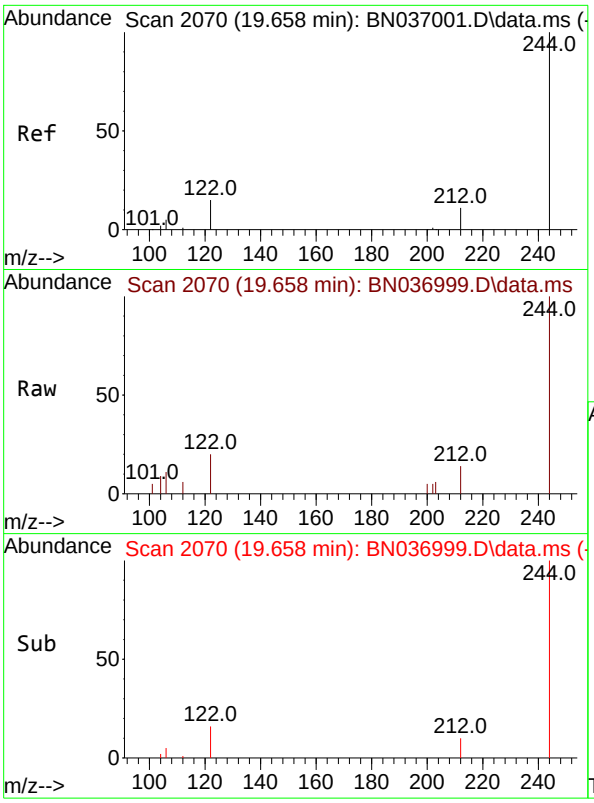


#30
Pyrene
Concen: 0.102 ng
RT: 19.444 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:202 Resp: 2745

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	18.1	14.2	21.4



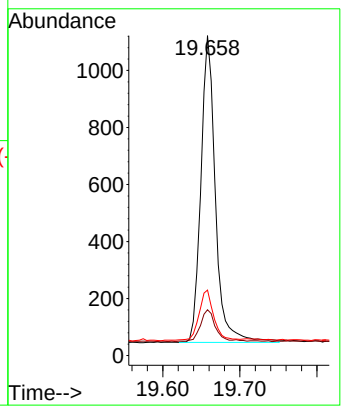


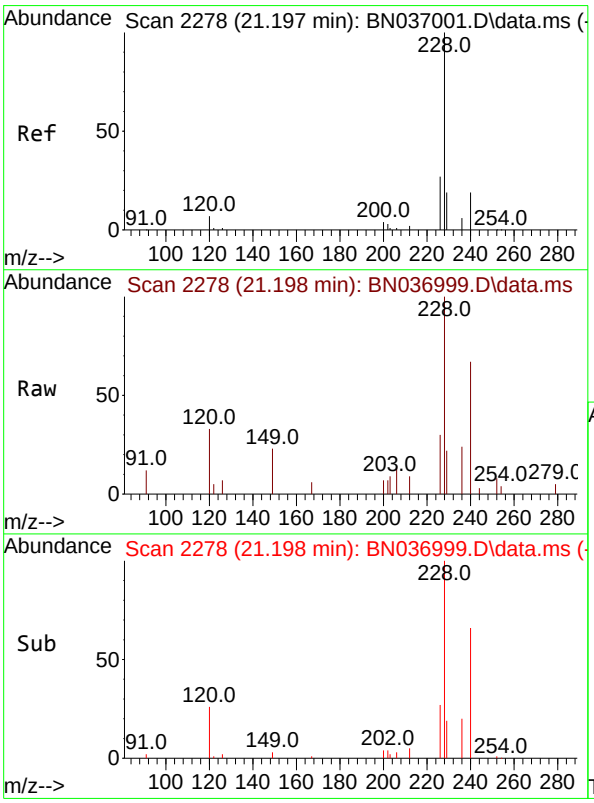
#31
Terphenyl-d14
Concen: 0.105 ng
RT: 19.658 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 1412

Ion	Ratio	Lower	Upper
244	100		
212	14.3	9.7	14.5
122	20.5	13.4	20.0#

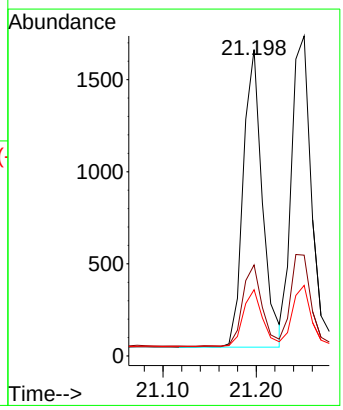


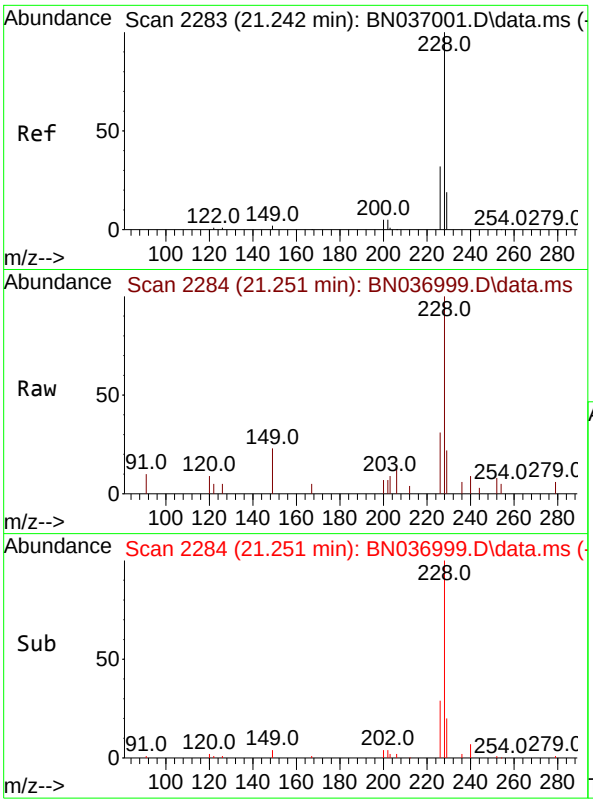


#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:228 Resp: 2303

Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.2	33.4
229	21.6	16.0	24.0



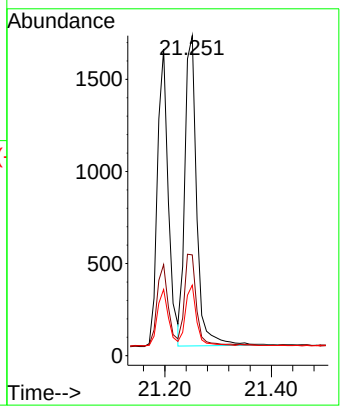


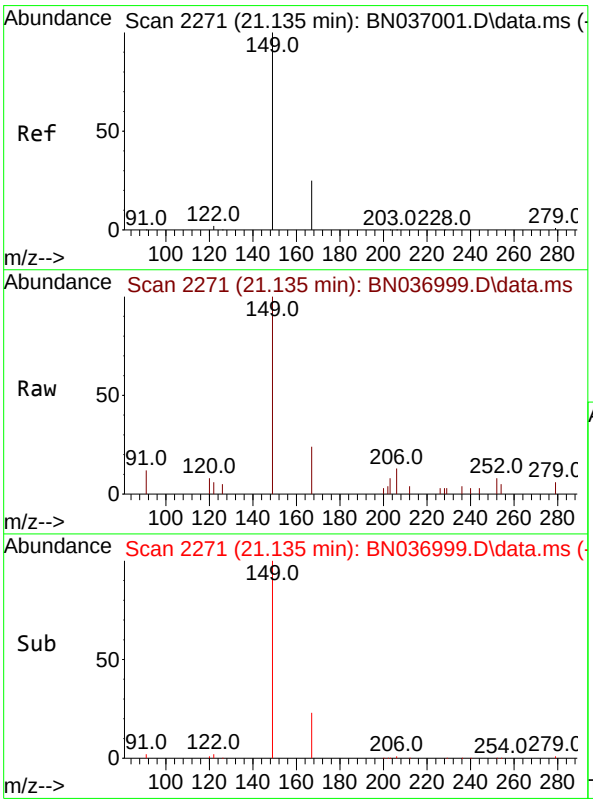
#33
Chrysene
Concen: 0.104 ng
RT: 21.251 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 2605

Ion	Ratio	Lower	Upper
228	100		
226	31.5	26.3	39.5
229	22.0	16.2	24.2

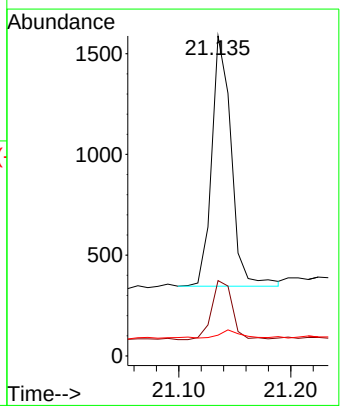


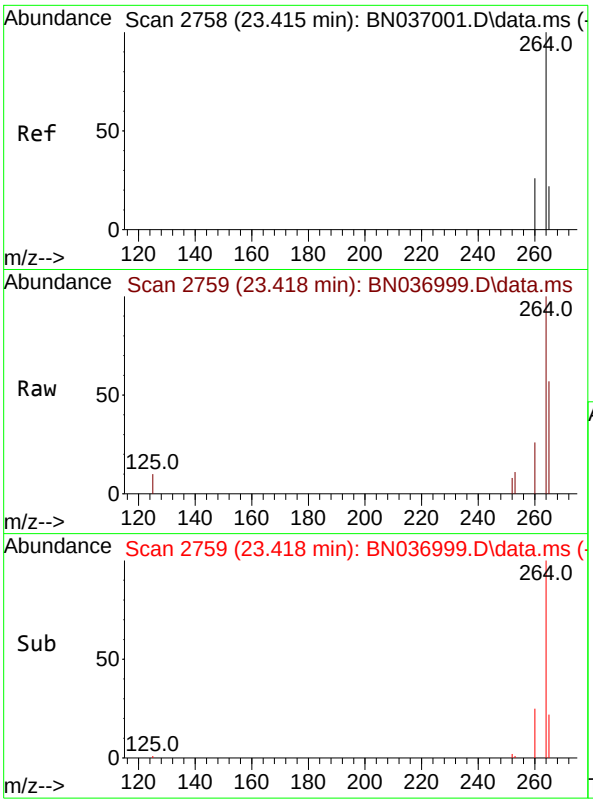


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.103 ng
RT: 21.135 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:149 Resp: 1504

Ion	Ratio	Lower	Upper
149	100		
167	25.1	20.6	30.8
279	3.1	2.6	3.8



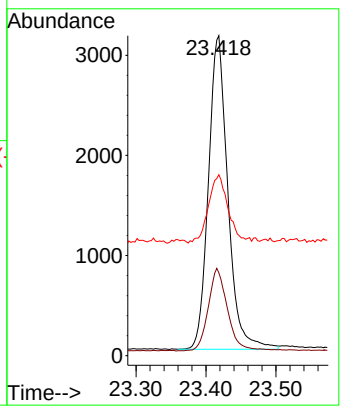


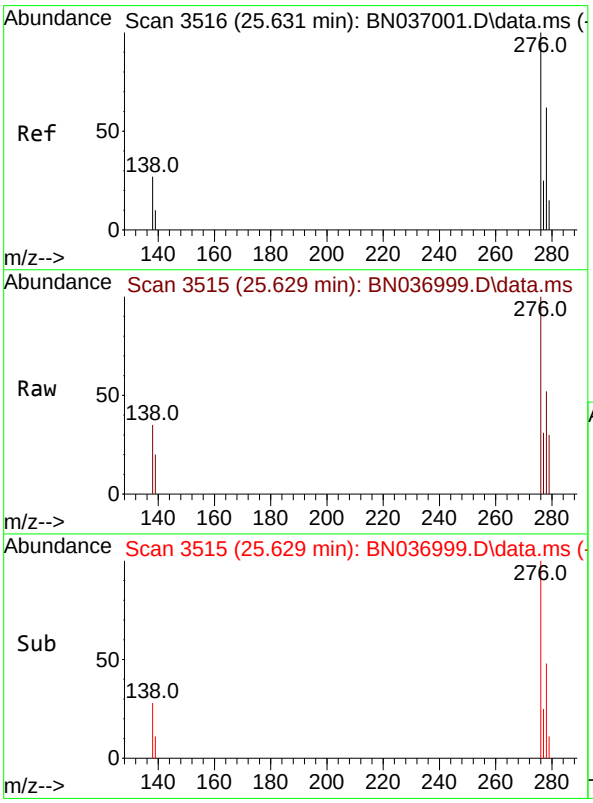
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.418 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 6037

Ion	Ratio	Lower	Upper
264	100		
260	25.9	21.9	32.9
265	56.5	51.6	77.4

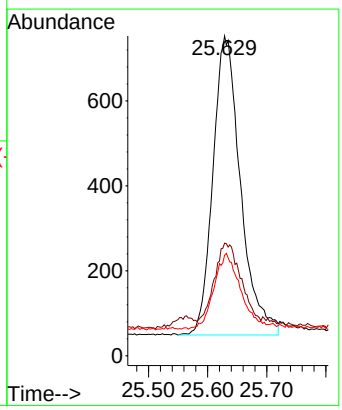


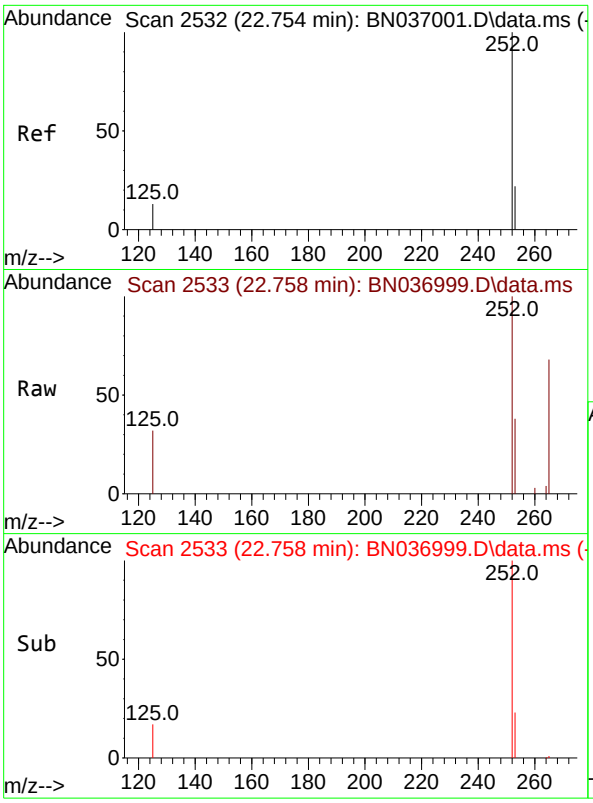


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.092 ng
RT: 25.629 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:276 Resp: 2280

Ion	Ratio	Lower	Upper
276	100		
138	25.8	22.7	34.1
277	24.3	20.0	30.0



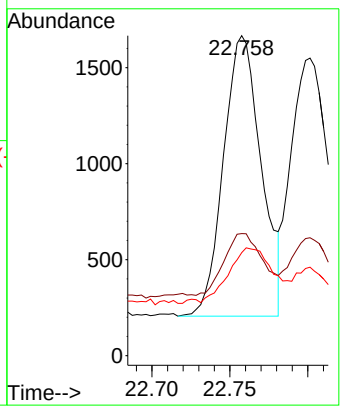


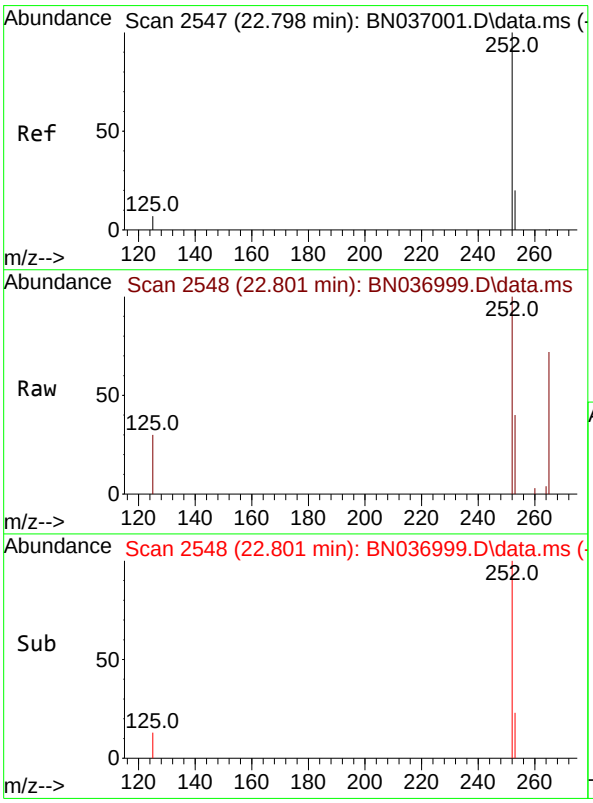
#37
Benzo(b)fluoranthene
Concen: 0.098 ng
RT: 22.758 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 2461

Ion	Ratio	Lower	Upper
252	100		
253	38.2	21.8	32.6#
125	32.2	14.6	21.8#

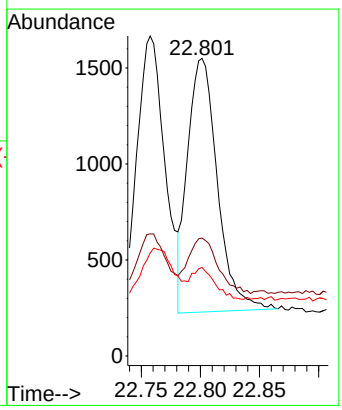


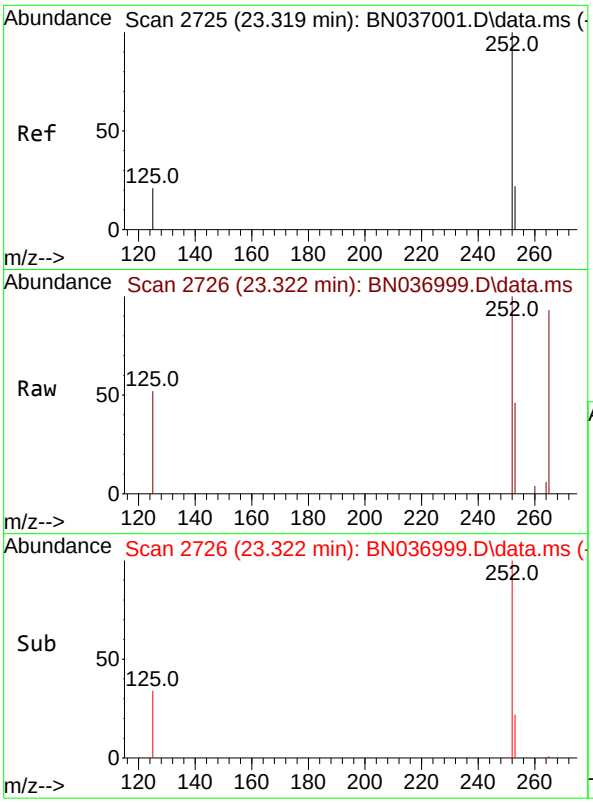


#38
Benzo(k)fluoranthene
Concen: 0.094 ng
RT: 22.801 min Scan# 2548
Delta R.T. 0.003 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:252 Resp: 2322

Ion	Ratio	Lower	Upper
252	100		
253	39.6	21.4	32.2#
125	29.7	13.0	19.4#



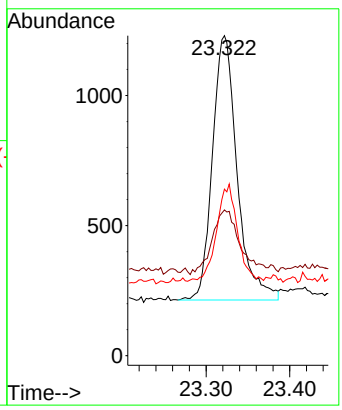


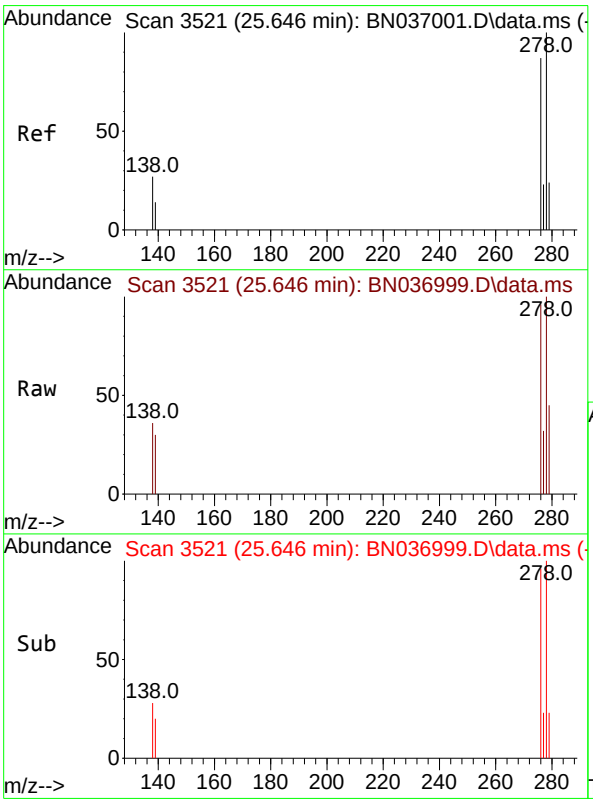
#39
Benzo(a)pyrene
Concen: 0.098 ng
RT: 23.322 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 2083

Ion	Ratio	Lower	Upper
252	100		
253	45.5	23.8	35.6#
125	52.0	21.8	32.6#

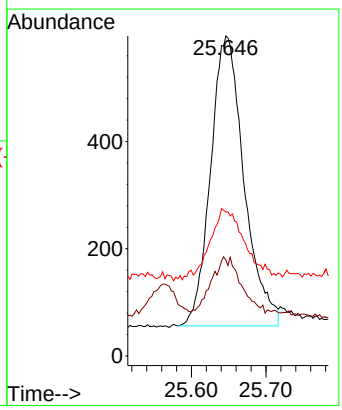


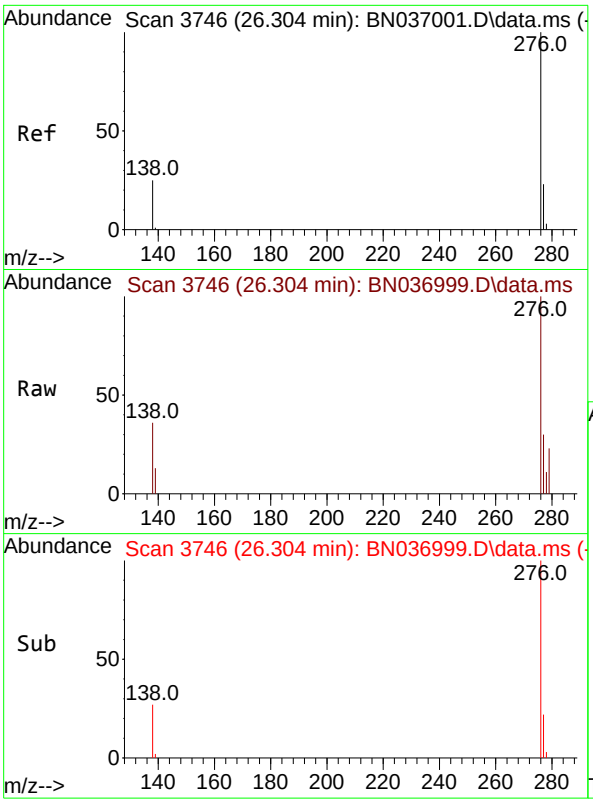


#40
Dibenzo(a,h)anthracene
Concen: 0.088 ng
RT: 25.646 min Scan# 3521
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:278 Resp: 1685

Ion	Ratio	Lower	Upper
278	100		
139	30.0	17.4	26.0#
279	45.1	24.6	37.0#



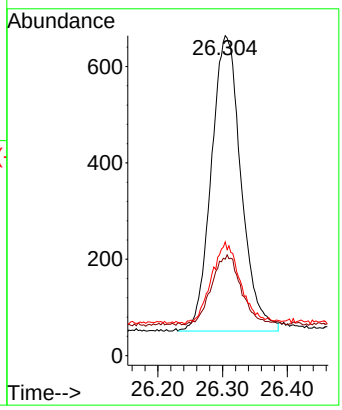


#41
Benzo(g,h,i)perylene
Concen: 0.094 ng
RT: 26.304 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 1960

Ion	Ratio	Lower	Upper
276	100		
277	30.1	20.2	30.4
138	35.5	22.0	33.0#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037000.D
Acq On : 13 May 2025 18:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 11:00:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	2140	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	5637	0.400	ng		0.00
13) Acenaphthene-d10	14.266	164	3174	0.400	ng		0.00
19) Phenanthrene-d10	17.009	188	6255	0.400	ng		0.00
29) Chrysene-d12	21.206	240	5420	0.400	ng		0.00
35) Perylene-d12	23.415	264	5487	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.213	112	1178	0.210	ng		0.00
5) Phenol-d6	6.795	99	1395	0.199	ng		0.00
8) Nitrobenzene-d5	8.771	82	1080	0.176	ng		0.00
11) 2-Methylnaphthalene-d10	11.996	152	1543	0.194	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	267	0.192	ng		0.00
15) 2-Fluorobiphenyl	12.888	172	2858	0.197	ng		0.00
27) Fluoranthene-d10	19.049	212	3232	0.188	ng		0.00
31) Terphenyl-d14	19.658	244	2287	0.197	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.140	88	546	0.208	ng		97
3) n-Nitrosodimethylamine	3.458	42	1042	0.185	ng	#	95
6) bis(2-Chloroethyl)ether	7.048	93	1244	0.193	ng		99
9) Naphthalene	10.447	128	3213	0.193	ng		99
10) Hexachlorobutadiene	10.746	225	698	0.200	ng	#	99
12) 2-Methylnaphthalene	12.072	142	2041	0.191	ng		99
16) Acenaphthylene	13.978	152	2917	0.189	ng		99
17) Acenaphthene	14.331	154	1950	0.193	ng		99
18) Fluorene	15.325	166	2509	0.189	ng		99
20) 4,6-Dinitro-2-methylph...	15.410	198	187	0.167	ng	#	48
21) 4-Bromophenyl-phenylether	16.214	248	770	0.195	ng		99
22) Hexachlorobenzene	16.326	284	840	0.199	ng		98
23) Atrazine	16.487	200	647	0.188	ng		98
24) Pentachlorophenol	16.673	266	419	0.178	ng		98
25) Phenanthrene	17.058	178	3977	0.195	ng		100
26) Anthracene	17.145	178	3452	0.186	ng		99
28) Fluoranthene	19.082	202	4499	0.184	ng		99
30) Pyrene	19.444	202	4629	0.200	ng		100
32) Benzo(a)anthracene	21.197	228	3882	0.190	ng		98
33) Chrysene	21.251	228	4226	0.196	ng		98
34) Bis(2-ethylhexyl)phtha...	21.135	149	2490	0.198	ng		99
36) Indeno(1,2,3-cd)pyrene	25.628	276	4426	0.198	ng		99
37) Benzo(b)fluoranthene	22.757	252	4306m	0.189	ng		
38) Benzo(k)fluoranthene	22.798	252	4219	0.188	ng	#	91
39) Benzo(a)pyrene	23.322	252	3685	0.191	ng	#	88
40) Dibenzo(a,h)anthracene	25.646	278	3380	0.194	ng		94
41) Benzo(g,h,i)perylene	26.301	276	3861	0.204	ng		96

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

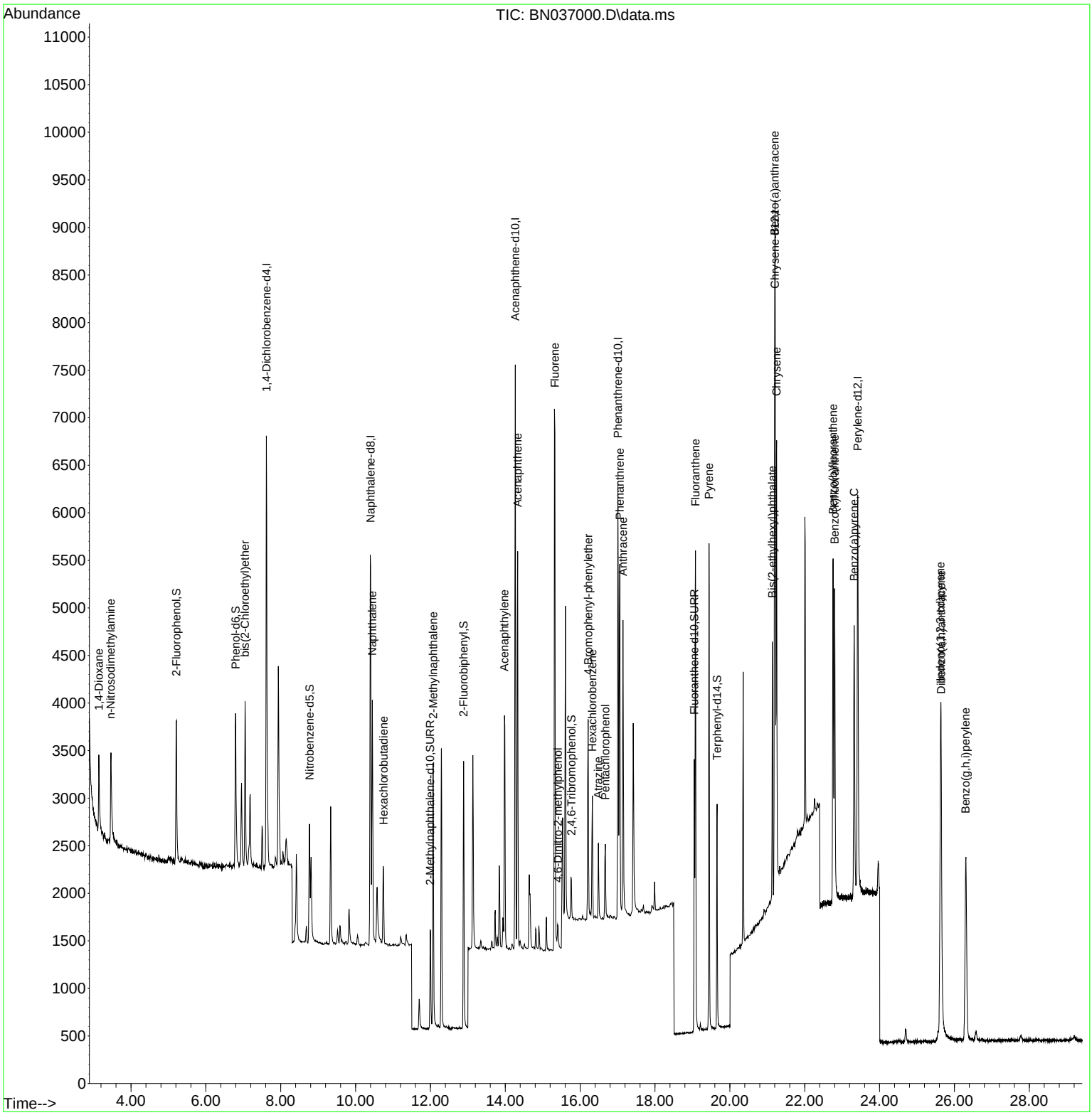
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Data File : BN037000.D
Acq On : 13 May 2025 18:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

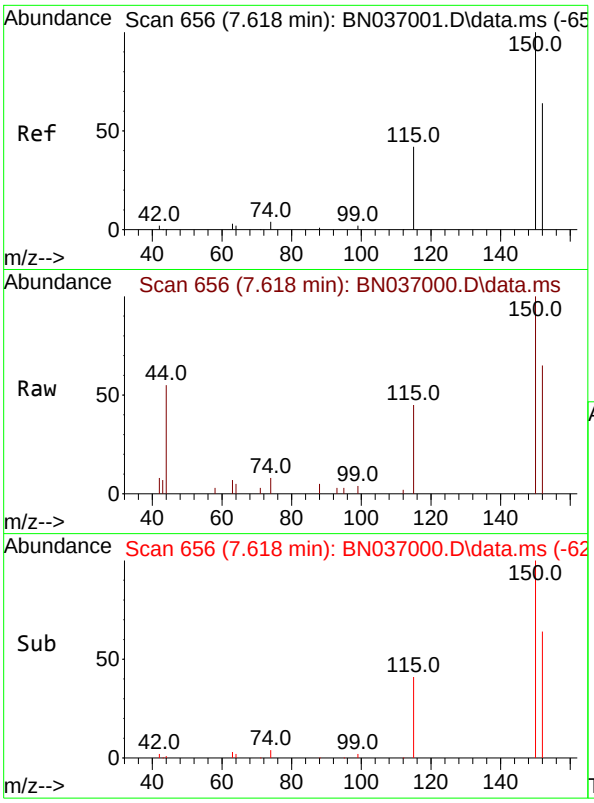
Quant Time: May 14 11:00:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

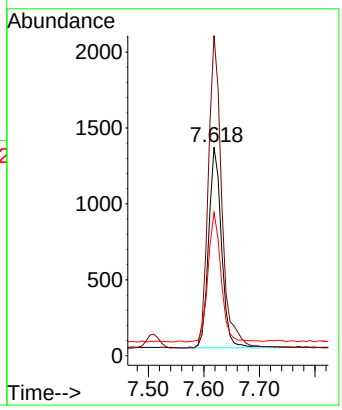




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:152 Resp: 214

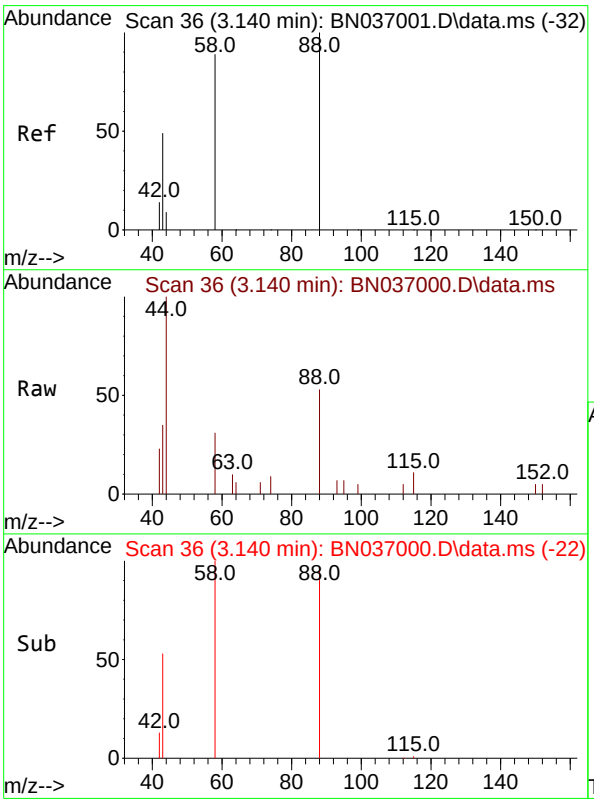
Ion	Ratio	Lower	Upper
152	100		
150	153.5	123.9	185.9
115	68.7	55.8	83.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

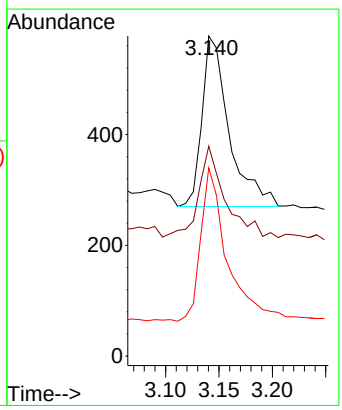
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

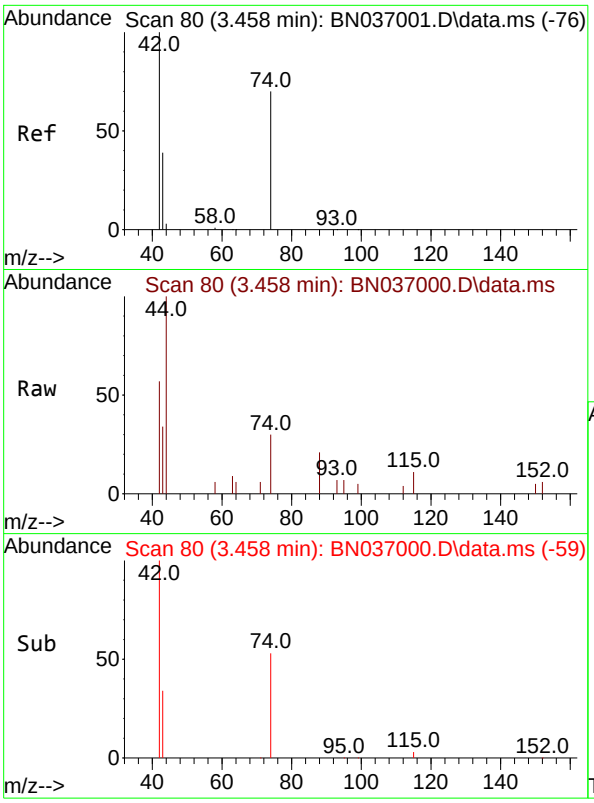


#2
1,4-Dioxane
Concen: 0.208 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 88 Resp: 546

Ion	Ratio	Lower	Upper
88	100		
43	52.4	37.4	56.0
58	85.7	68.8	103.2

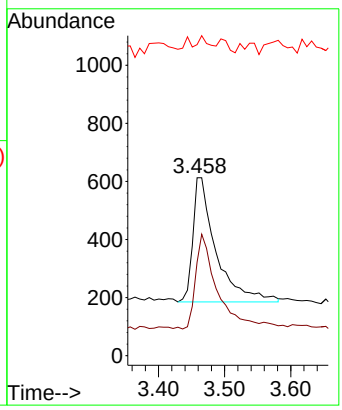




#3
n-Nitrosodimethylamine
Concen: 0.185 ng
RT: 3.458 min Scan# 8
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 42 Resp: 104

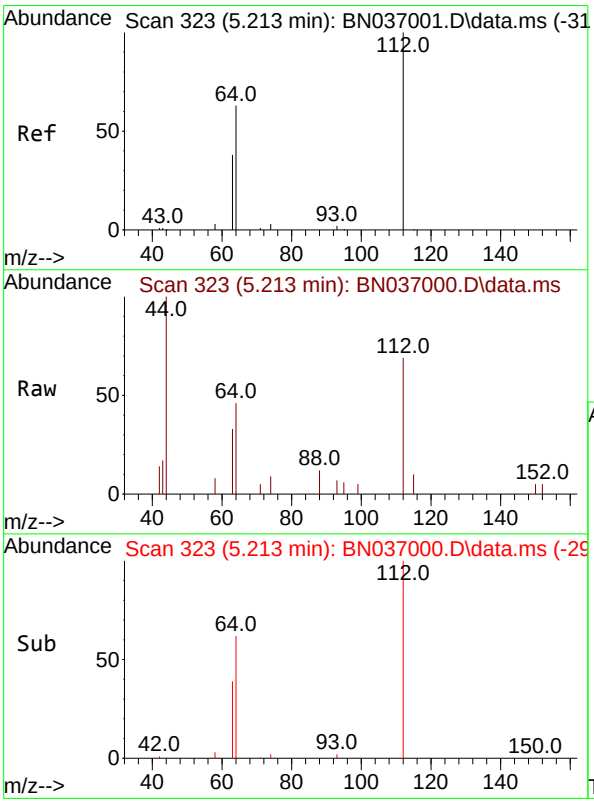
Ion	Ratio	Lower	Upper
42	100		
74	72.6	59.8	89.6
44	7.5	11.9	17.9#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

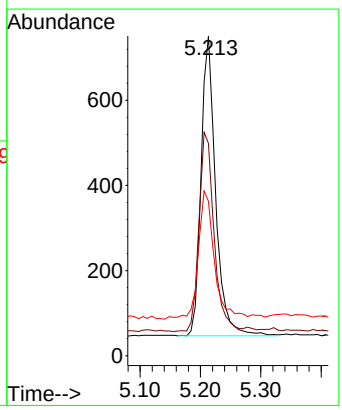
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

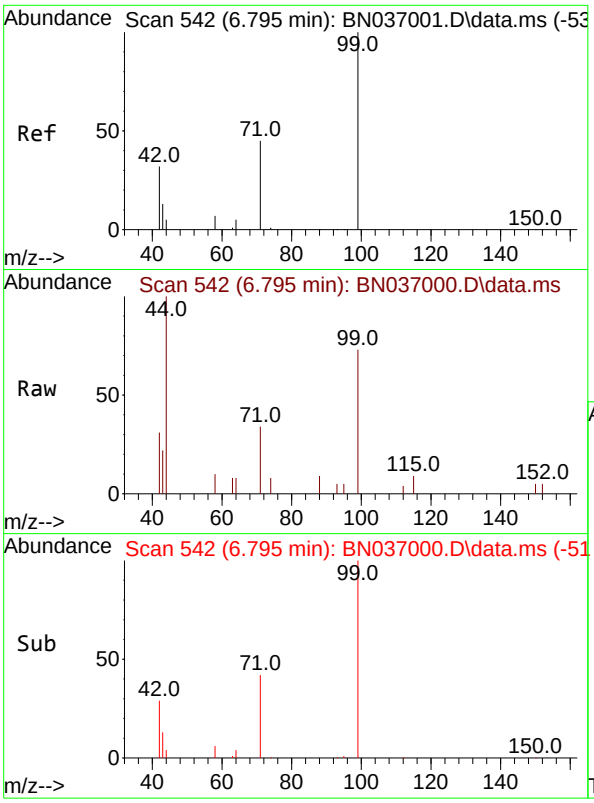


#4
2-Fluorophenol
Concen: 0.210 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:112 Resp: 1178

Ion	Ratio	Lower	Upper
112	100		
64	68.7	55.7	83.5
63	47.2	34.6	51.8





#5
Phenol-d6
Concen: 0.199 ng
RT: 6.795 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

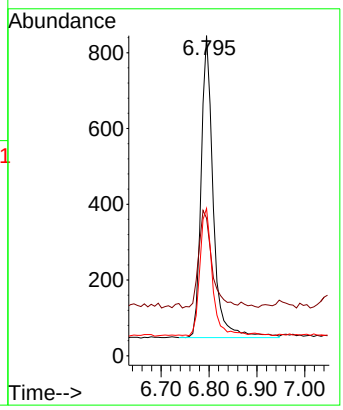
Tgt Ion: 99 Resp: 139

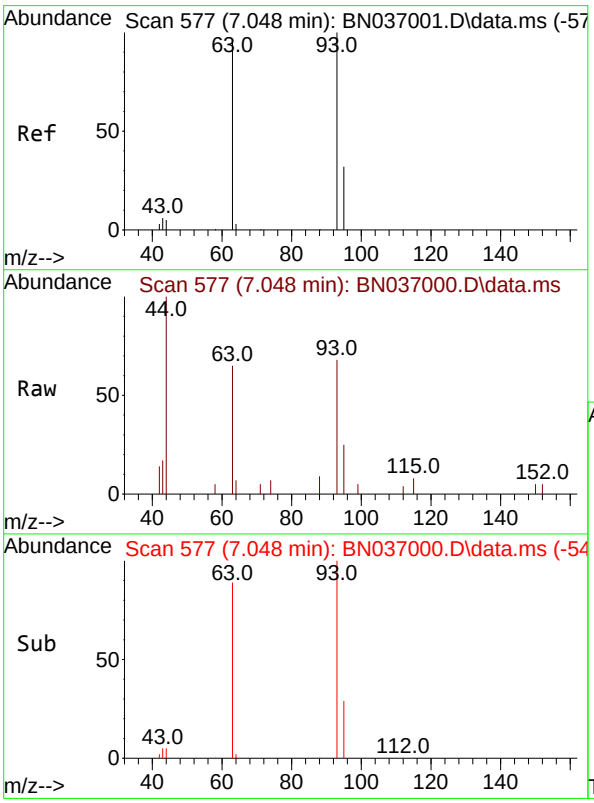
Ion	Ratio	Lower	Upper
99	100		
42	34.2	29.3	43.9
71	42.7	35.7	53.5

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

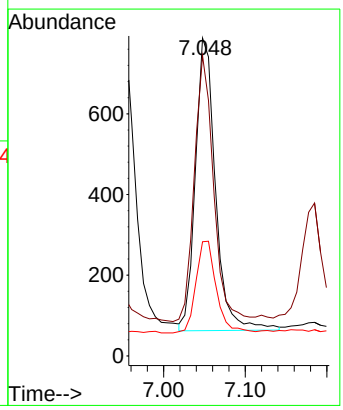


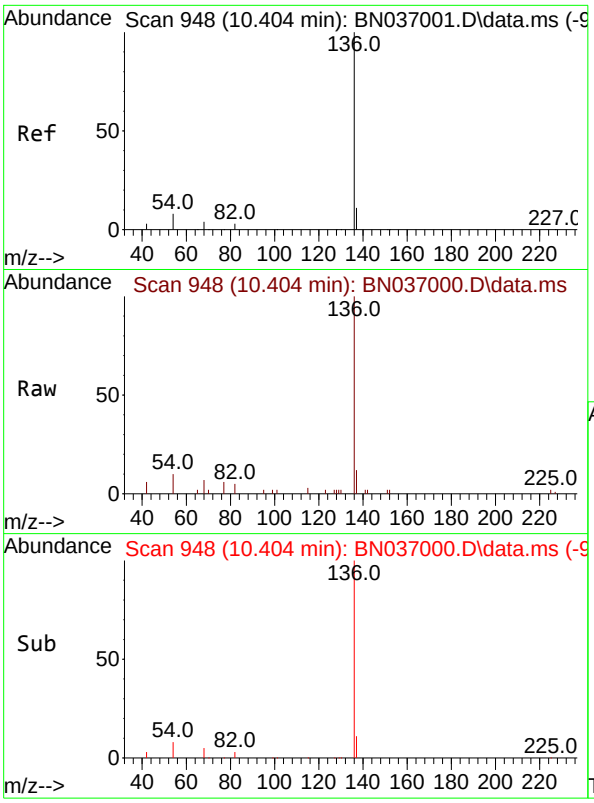


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.048 min Scan# 577
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 93 Resp: 1244

Ion	Ratio	Lower	Upper
93	100		
63	86.9	70.1	105.1
95	31.8	26.2	39.2

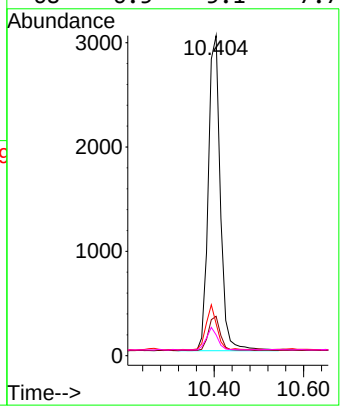




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:136 Resp: 563

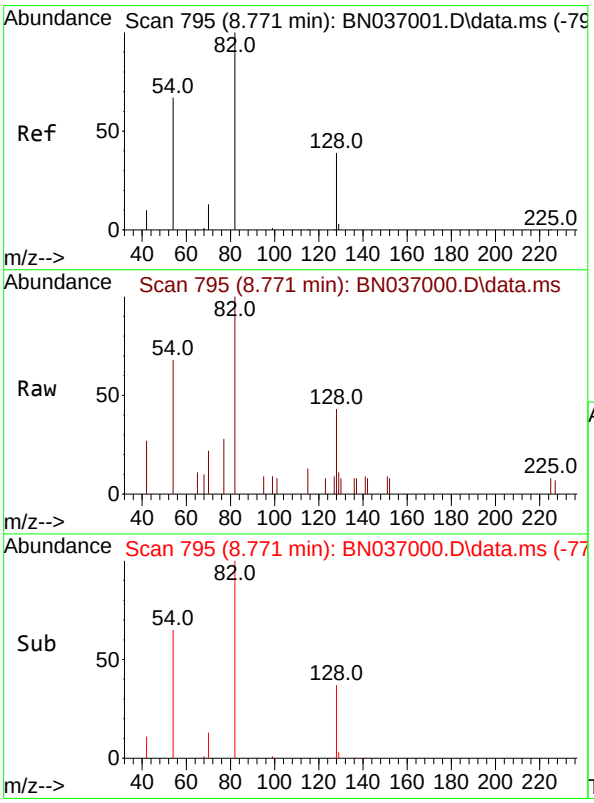
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.4	15.6
54	10.0	8.5	12.7
68	6.5	5.1	7.7



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

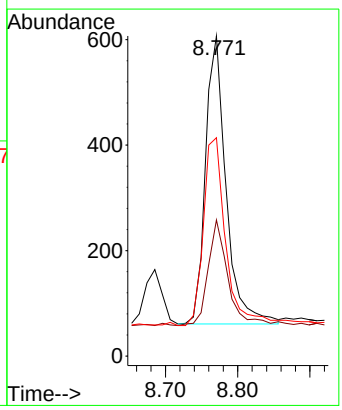
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

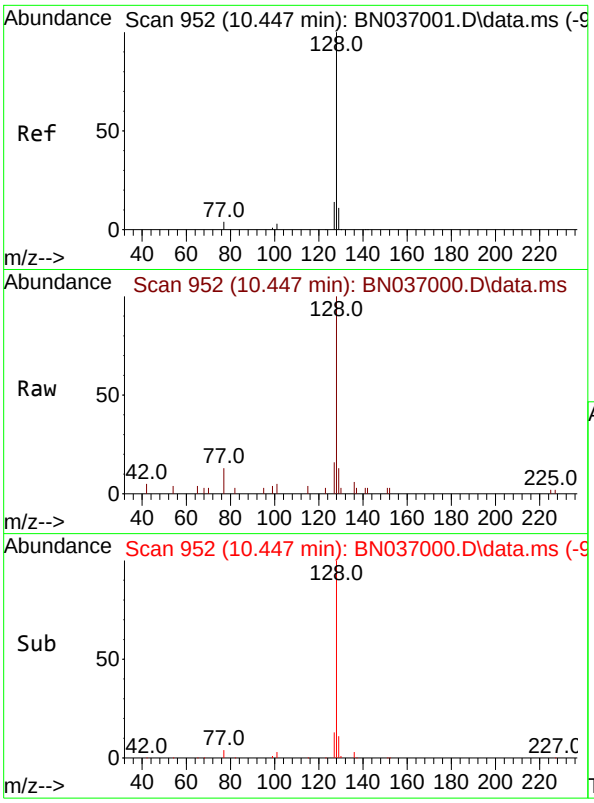


#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 82 Resp: 1080

Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	68.2	55.0	82.4

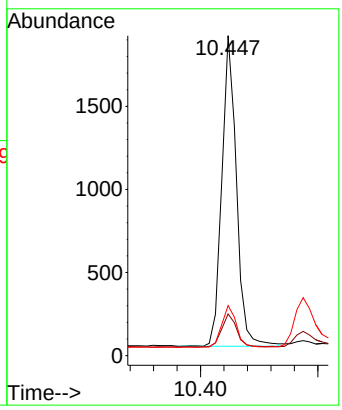




#9
Naphthalene
Concen: 0.193 ng
RT: 10.447 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:128 Resp: 321

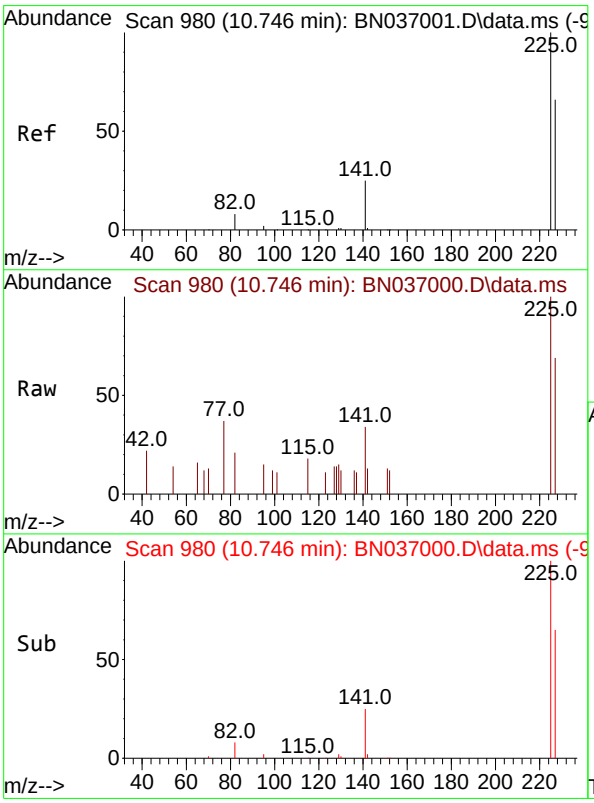
Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.7	14.5
127	15.6	12.4	18.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

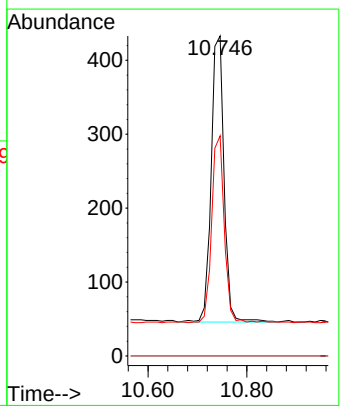
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

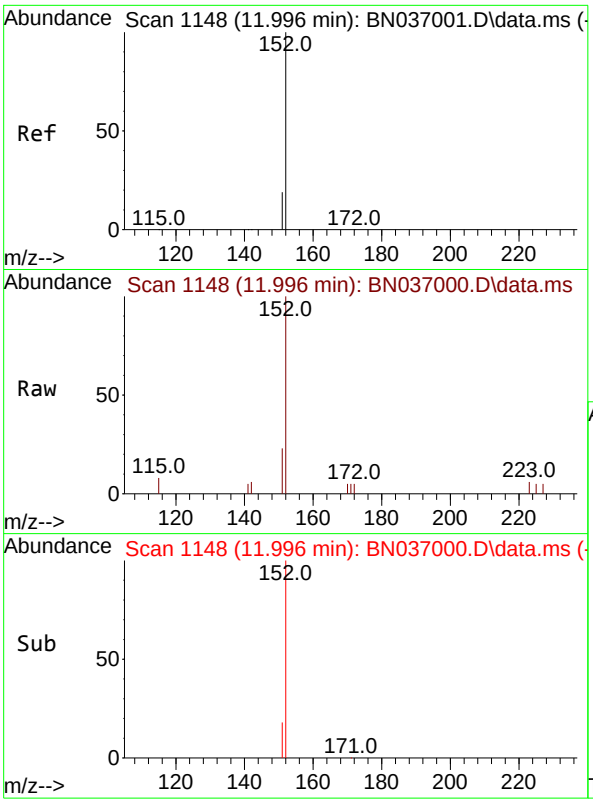


#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:225 Resp: 698

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	50.9	76.3

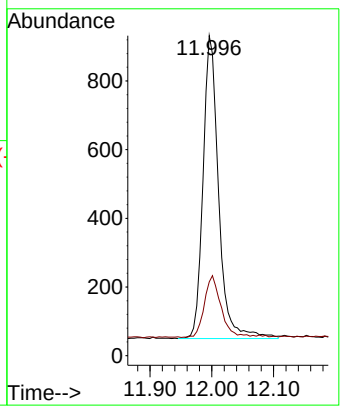




#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 11.996 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:152 Resp: 154

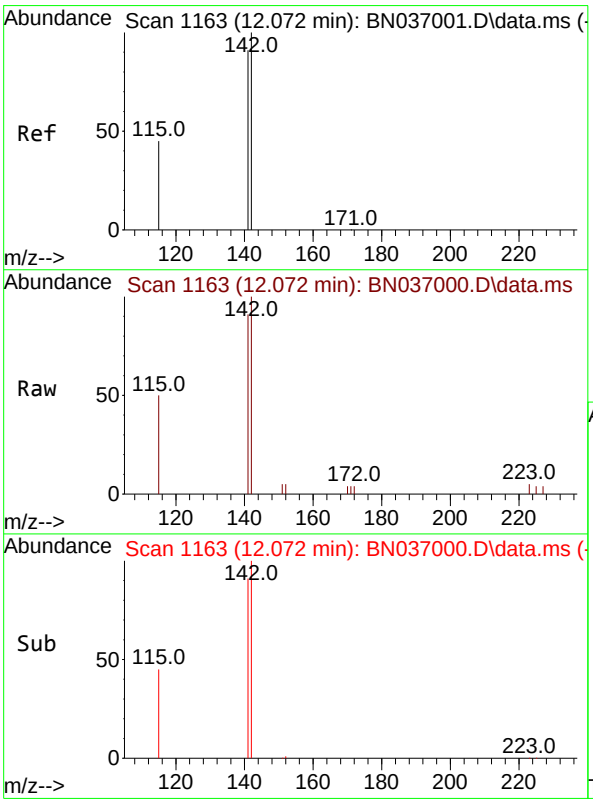
Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.5	26.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

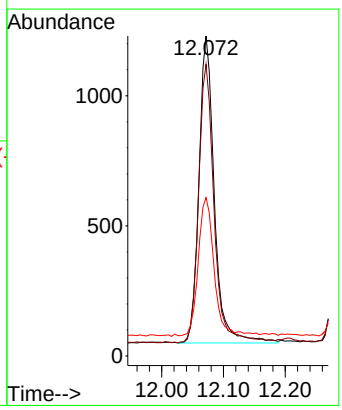
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

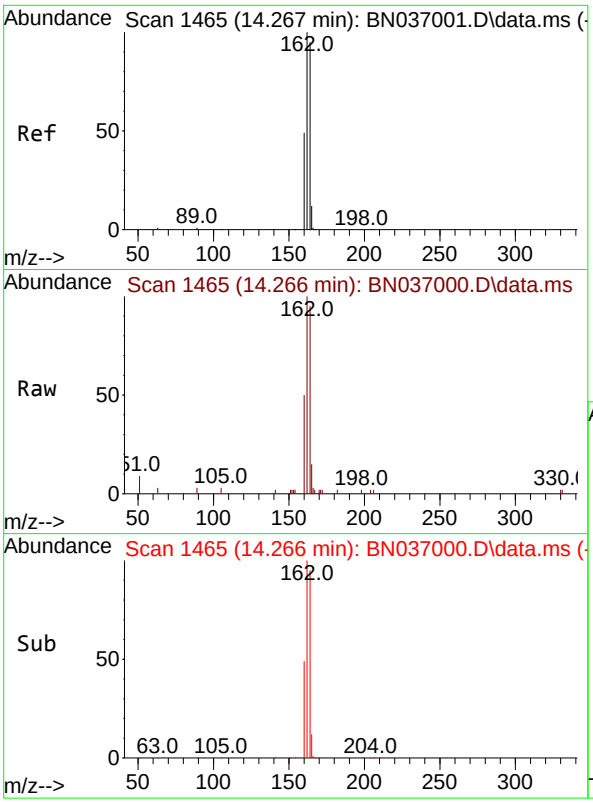


#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:142 Resp: 2041

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.3	109.9
115	49.5	38.4	57.6

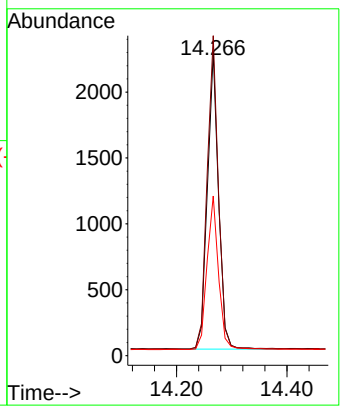




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:164 Resp: 317

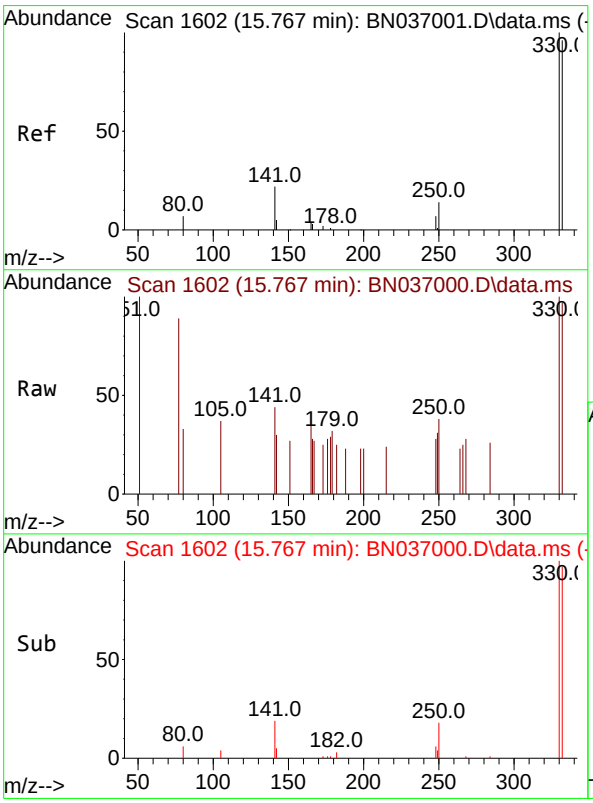
Ion	Ratio	Lower	Upper
164	100		
162	105.4	84.2	126.4
160	52.6	42.6	63.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

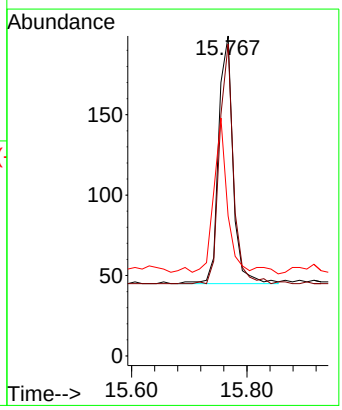
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

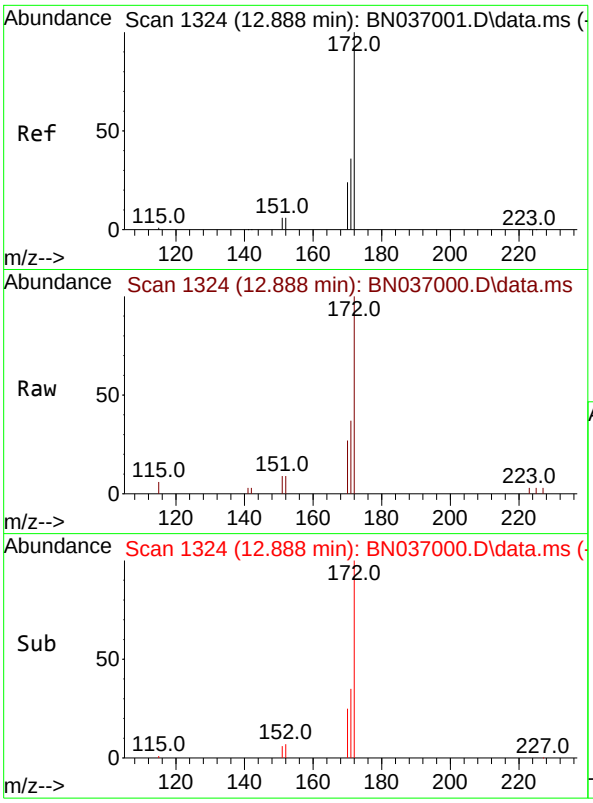


#14
2,4,6-Tribromophenol
Concen: 0.192 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:330 Resp: 267

Ion	Ratio	Lower	Upper
330	100		
332	93.3	73.8	110.8
141	58.1	43.9	65.9

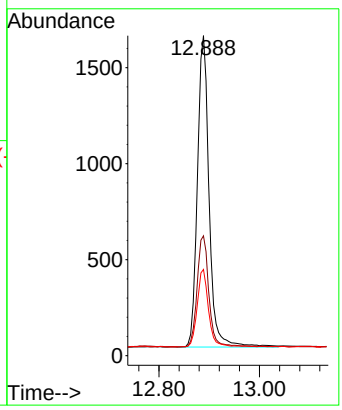




#15
2-Fluorobiphenyl
Concen: 0.197 ng
RT: 12.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:172 Resp: 285

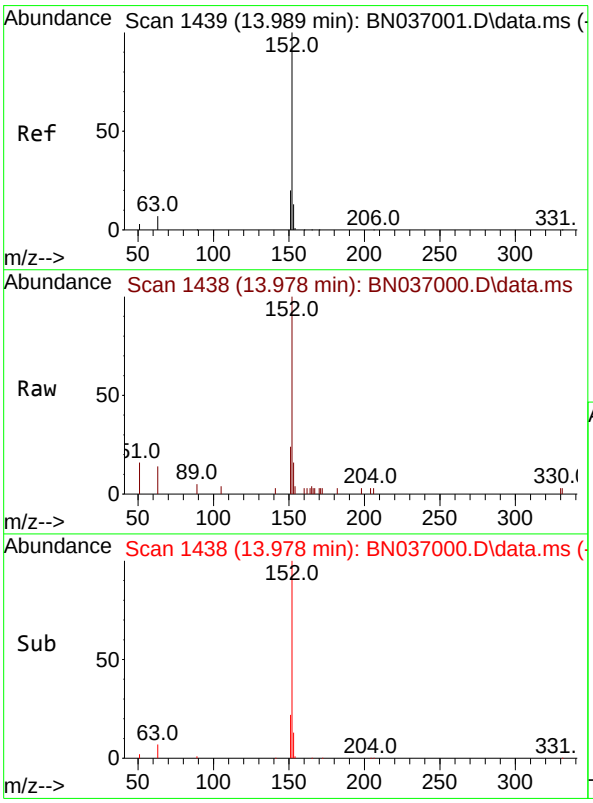
Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.2	43.8
170	26.9	20.5	30.7



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

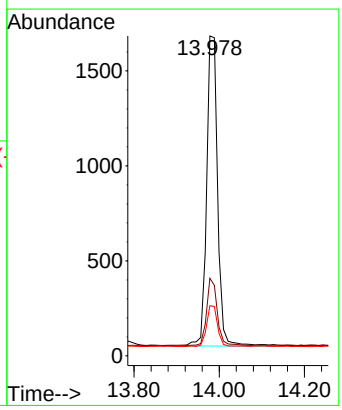
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

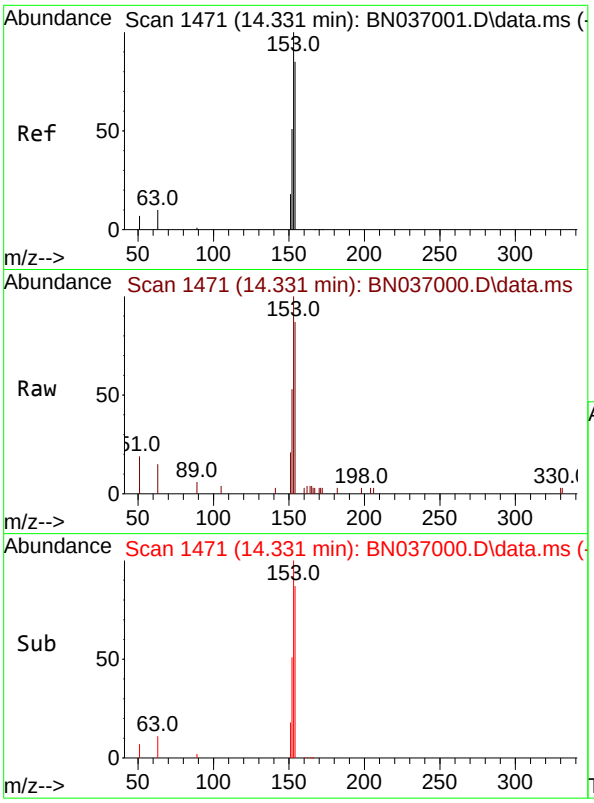


#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:152 Resp: 2917

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.1	24.1
153	13.7	10.5	15.7

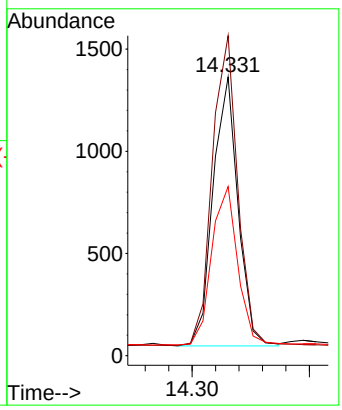




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.331 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:154 Resp: 195

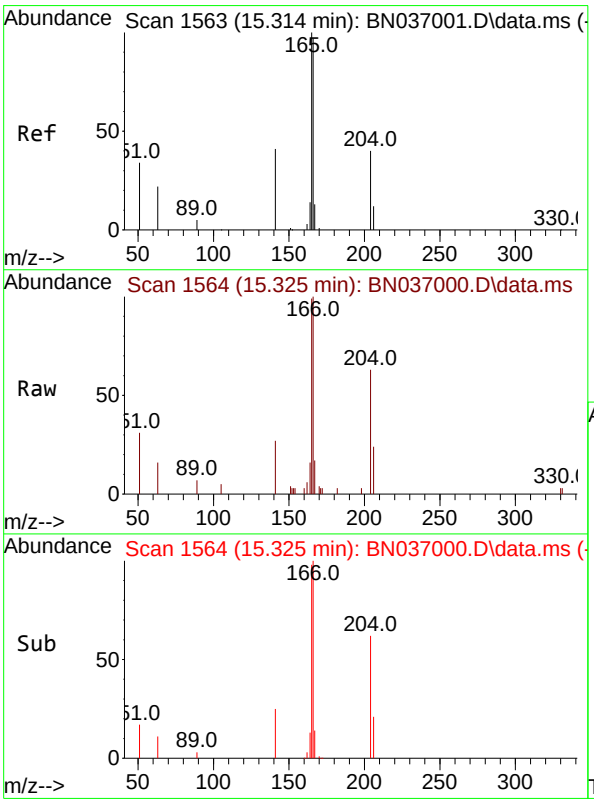
Ion	Ratio	Lower	Upper
154	100		
153	117.0	94.2	141.4
152	62.3	49.4	74.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

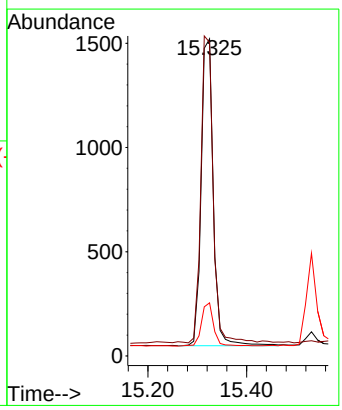
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

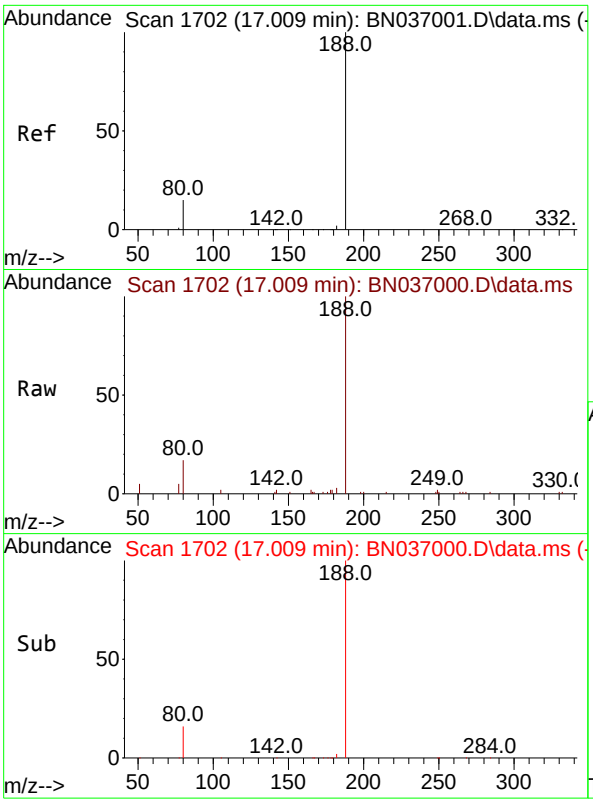


#18
Fluorene
Concen: 0.189 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:166 Resp: 2509

Ion	Ratio	Lower	Upper
166	100		
165	99.9	80.6	120.8
167	14.1	10.6	16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

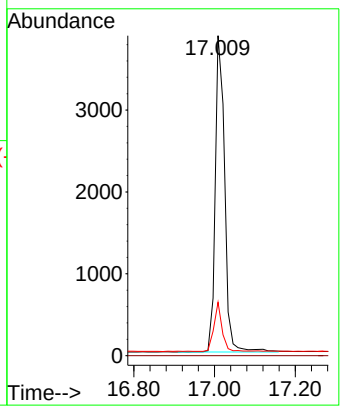
Tgt Ion:188 Resp: 625

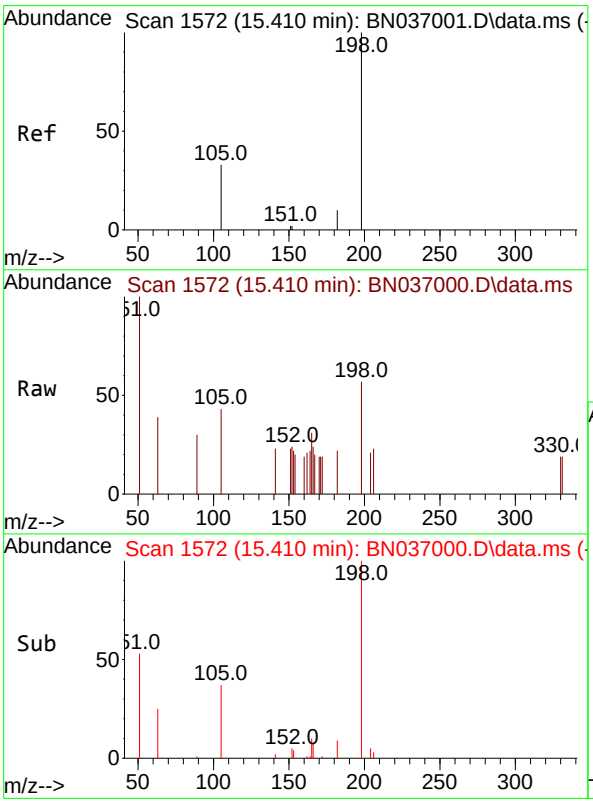
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.7	13.4	20.0

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

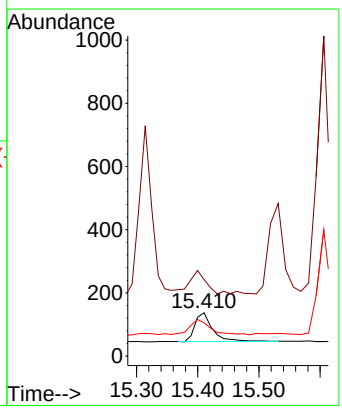


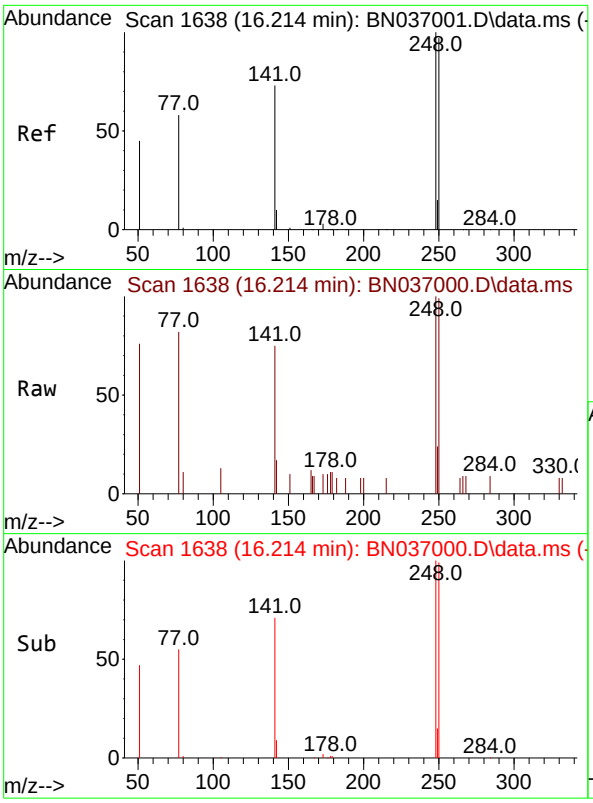


#20
4,6-Dinitro-2-methylphenol
Concen: 0.167 ng
RT: 15.410 min Scan# 1572
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:198 Resp: 187

Ion	Ratio	Lower	Upper
198	100		
51	176.6	87.8	131.6#
105	76.6	44.2	66.4#

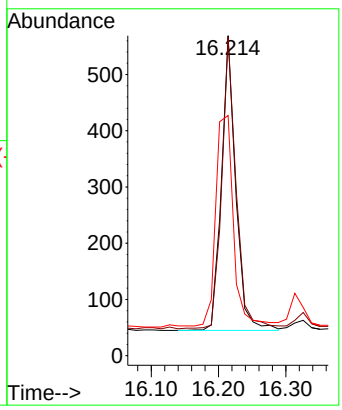




#21
4-Bromophenyl-phenylether
Concen: 0.195 ng
RT: 16.214 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:248 Resp: 77(

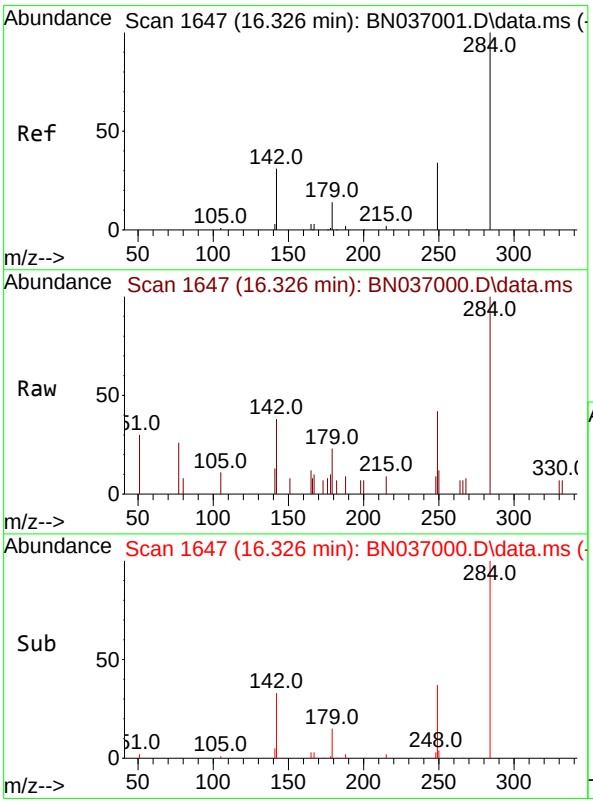
Ion	Ratio	Lower	Upper
248	100		
250	99.5	78.1	117.1
141	75.0	59.7	89.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

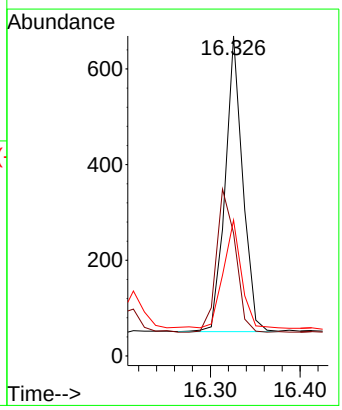
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

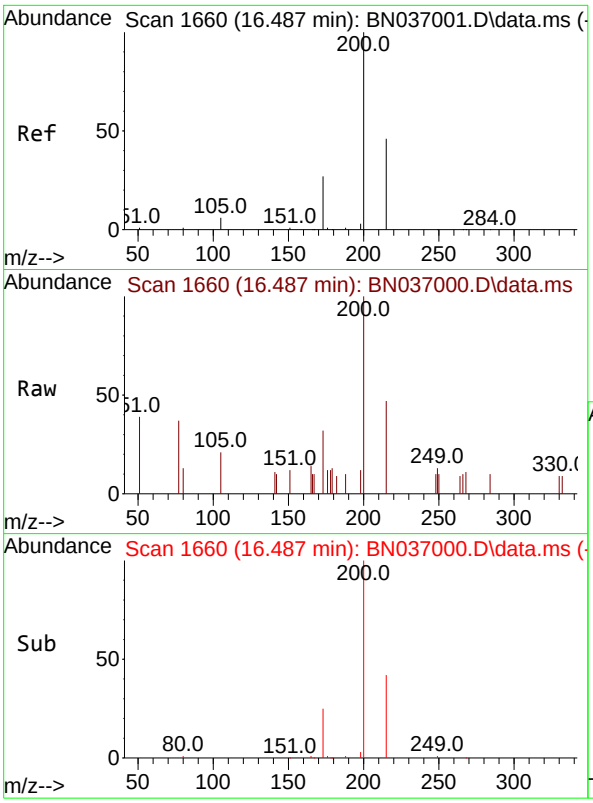


#22
Hexachlorobenzene
Concen: 0.199 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:284 Resp: 840

Ion	Ratio	Lower	Upper
284	100		
142	52.3	41.2	61.8
249	37.9	28.7	43.1

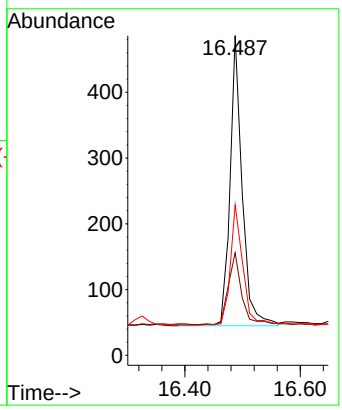




#23
Atrazine
Concen: 0.188 ng
RT: 16.487 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:200 Resp: 64

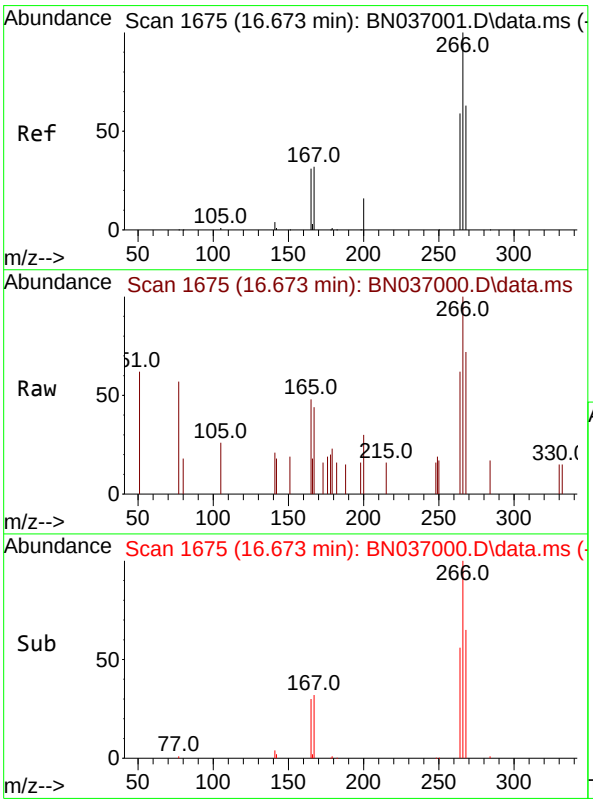
Ion	Ratio	Lower	Upper
200	100		
173	32.1	25.2	37.8
215	47.1	39.3	58.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

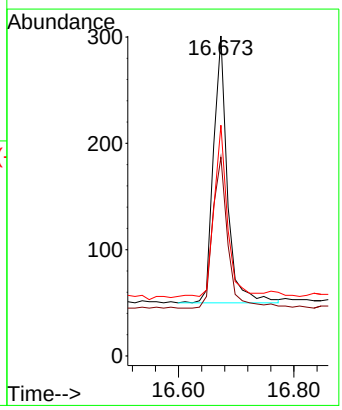
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

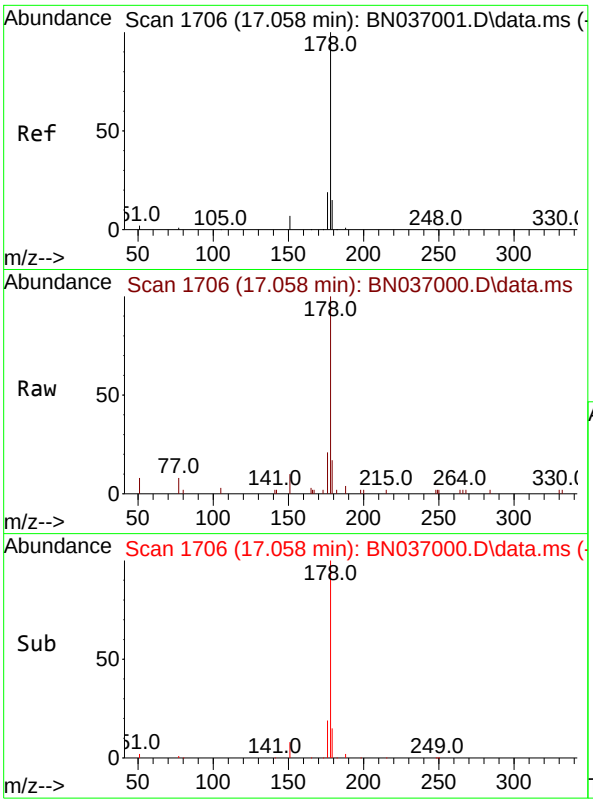


#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:266 Resp: 419

Ion	Ratio	Lower	Upper
266	100		
264	62.8	47.9	71.9
268	62.8	50.0	75.0

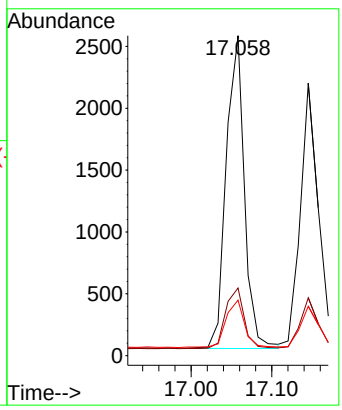




#25
Phenanthrene
Concen: 0.195 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:178 Resp: 397

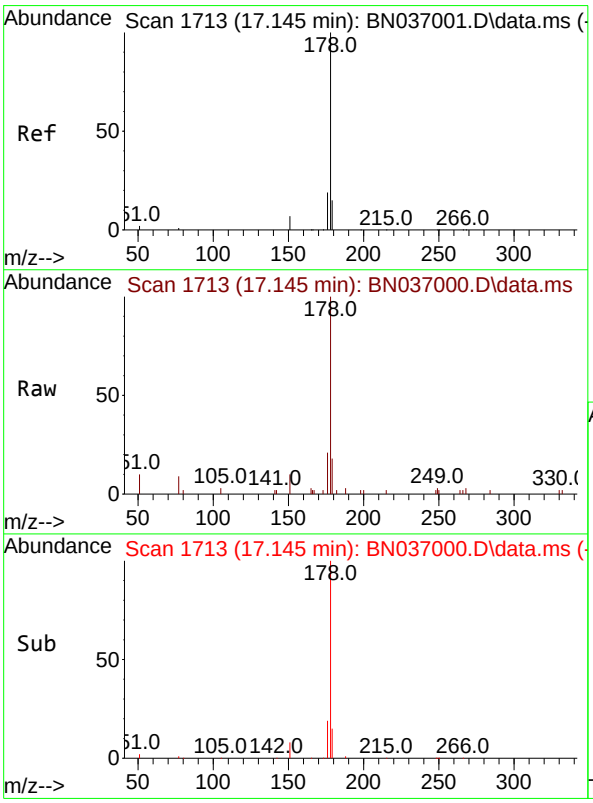
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.6	12.2	18.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

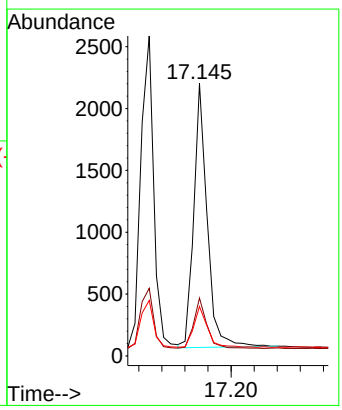
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

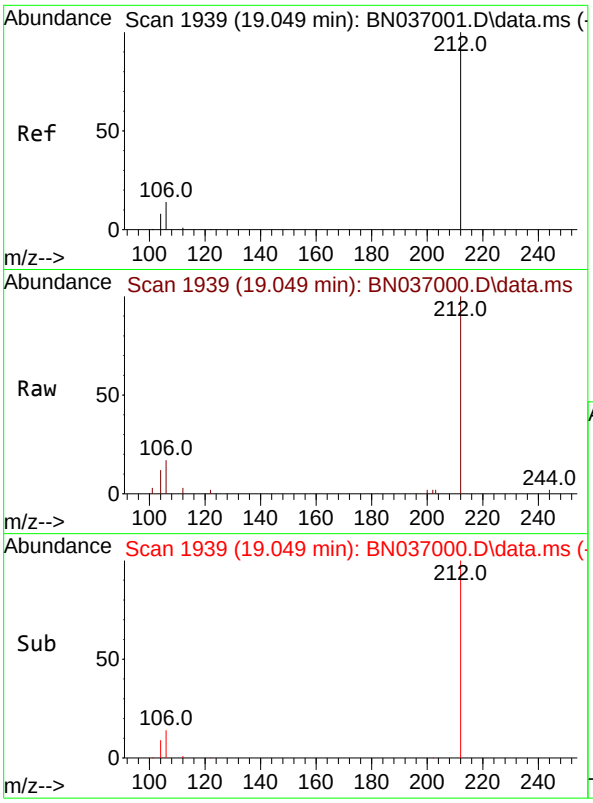


#26
Anthracene
Concen: 0.186 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:178 Resp: 3452

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.9	12.3	18.5

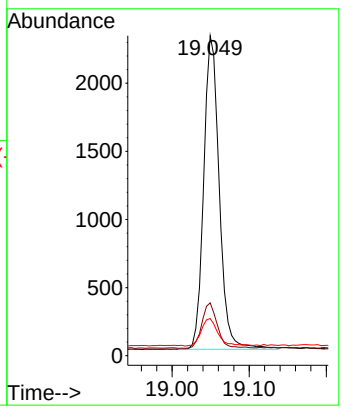




#27
Fluoranthene-d10
Concen: 0.188 ng
RT: 19.049 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:212 Resp: 323

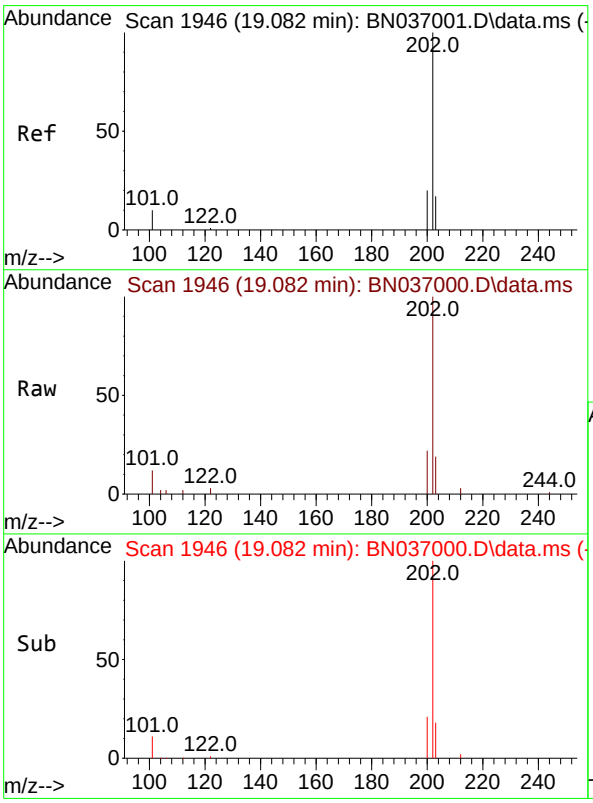
Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.3	16.9
104	9.5	6.7	10.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

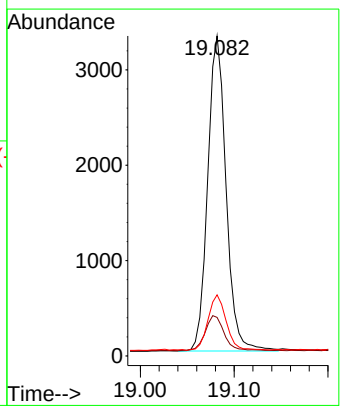
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

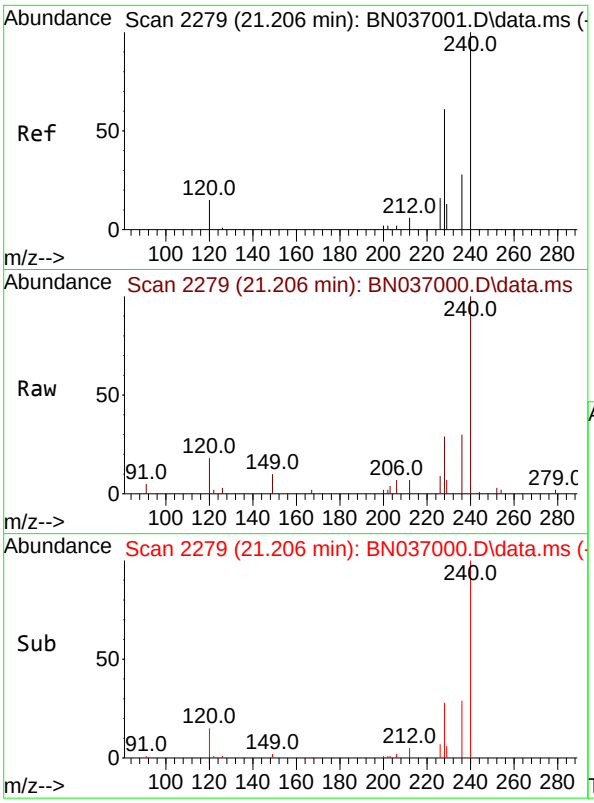


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.082 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:202 Resp: 4499

Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.9	13.3
203	17.6	13.8	20.8

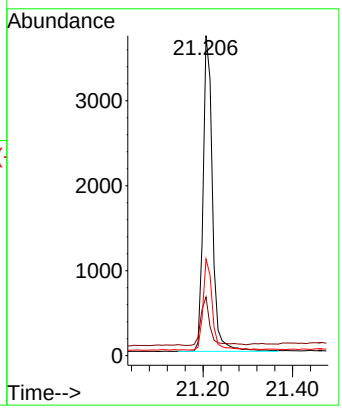




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:240 Resp: 542

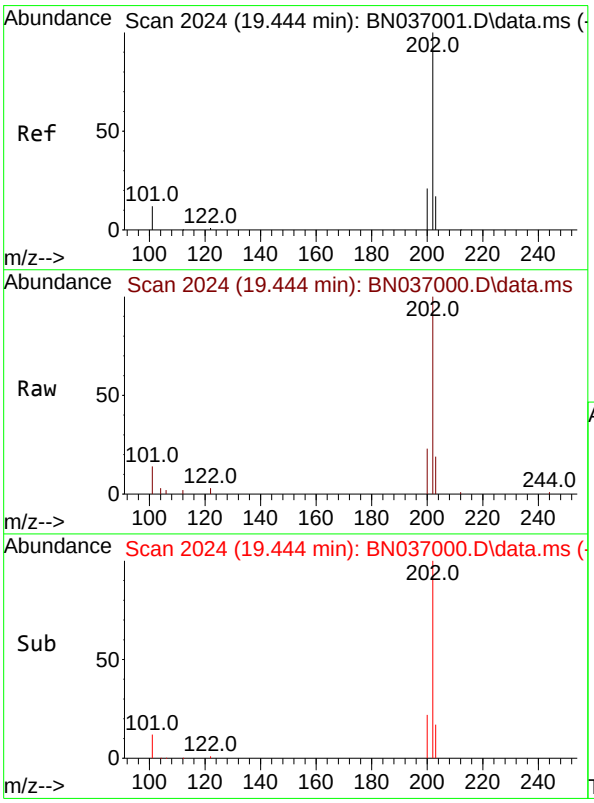
Ion	Ratio	Lower	Upper
240	100		
120	18.3	15.1	22.7
236	30.2	24.0	36.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

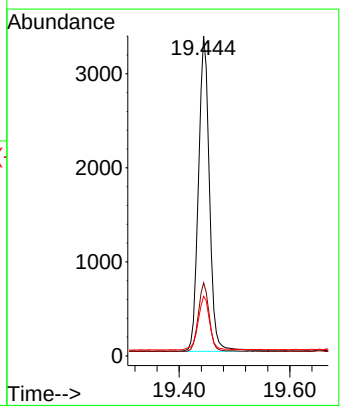
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

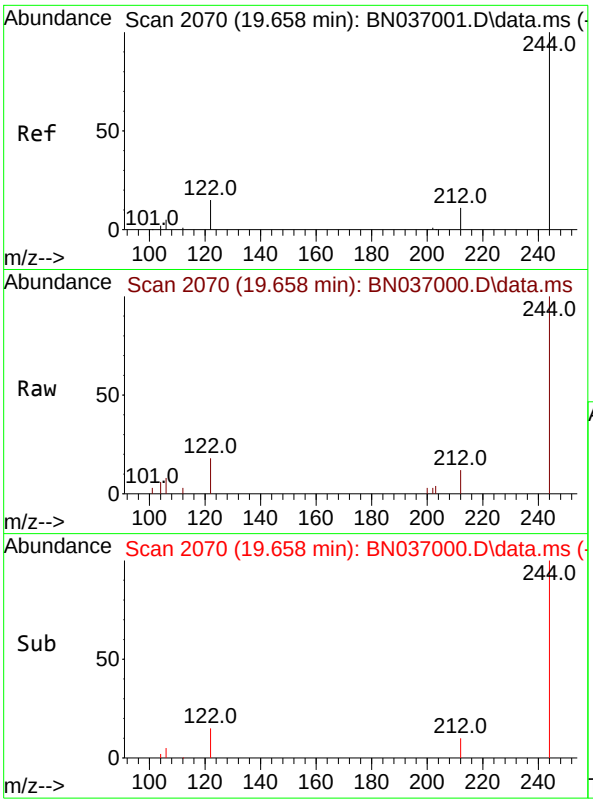


#30
Pyrene
Concen: 0.200 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:202 Resp: 4629

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.7	14.2	21.4

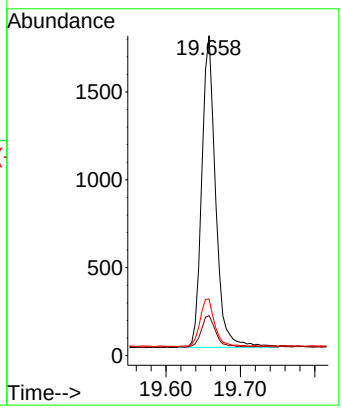




#31
Terphenyl-d14
Concen: 0.197 ng
RT: 19.658 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:244 Resp: 228

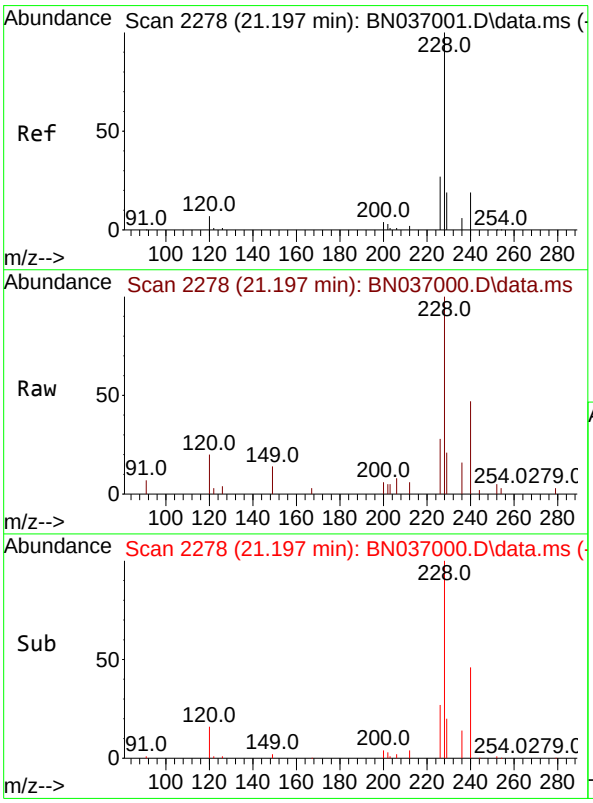
Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.7	14.5
122	17.7	13.4	20.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

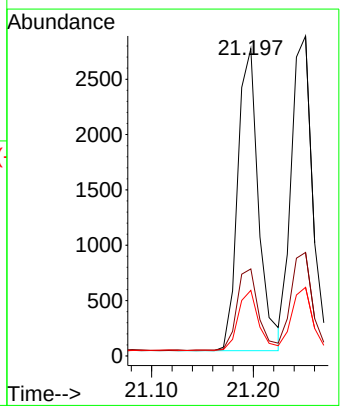
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

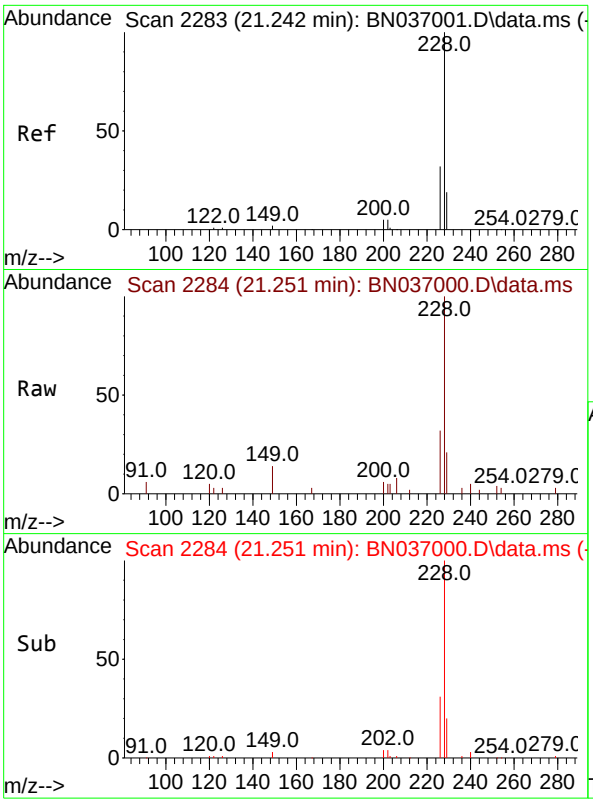


#32
Benzo(a)anthracene
Concen: 0.190 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:228 Resp: 3882

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.2	33.4
229	21.4	16.0	24.0

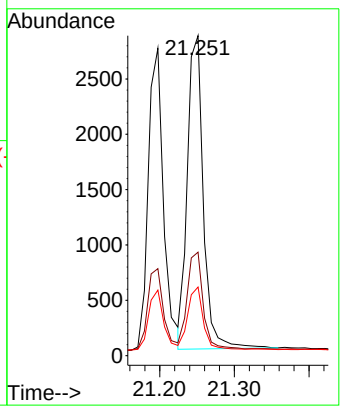




#33
Chrysene
Concen: 0.196 ng
RT: 21.251 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:228 Resp: 422

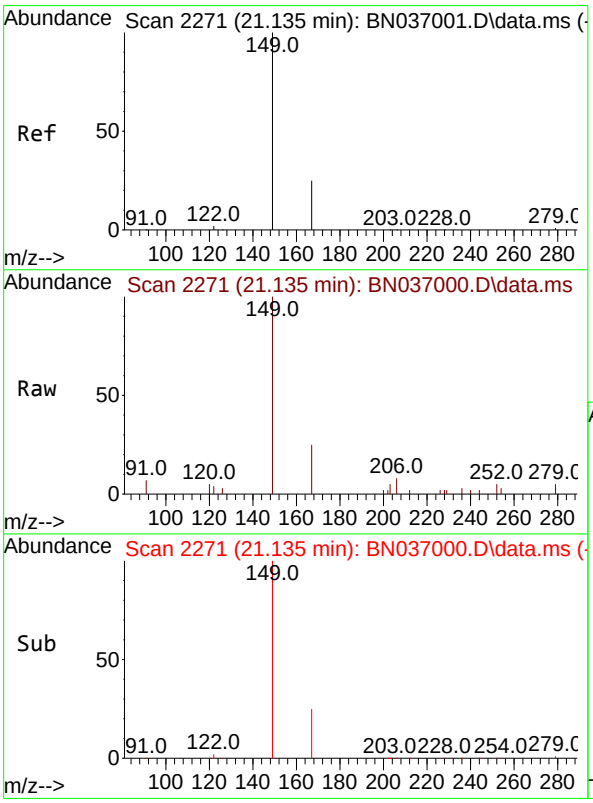
Ion	Ratio	Lower	Upper
228	100		
226	32.3	26.3	39.5
229	21.4	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

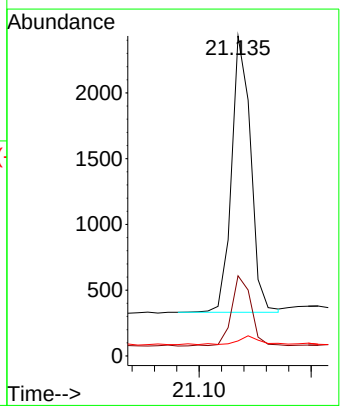
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

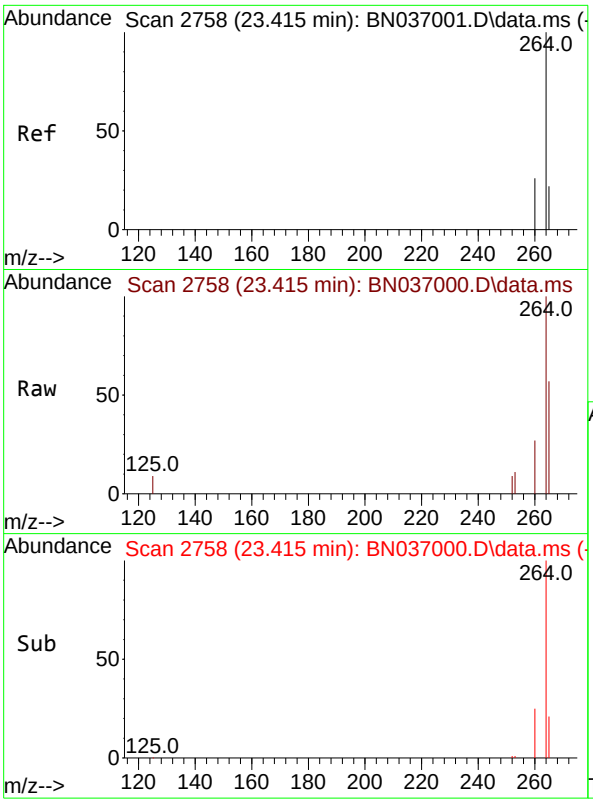


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.198 ng
RT: 21.135 min Scan# 2271
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:149 Resp: 2490

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.6	30.8
279	3.8	2.6	3.8

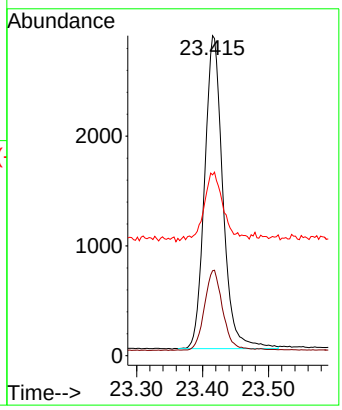




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:264 Resp: 548

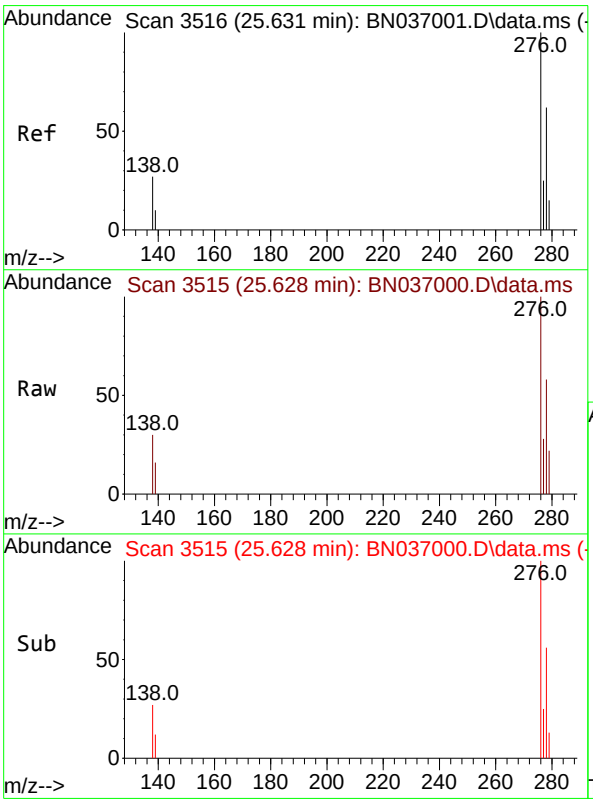
Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.9	32.9
265	56.5	51.6	77.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

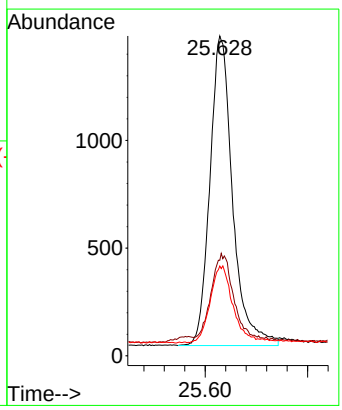
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

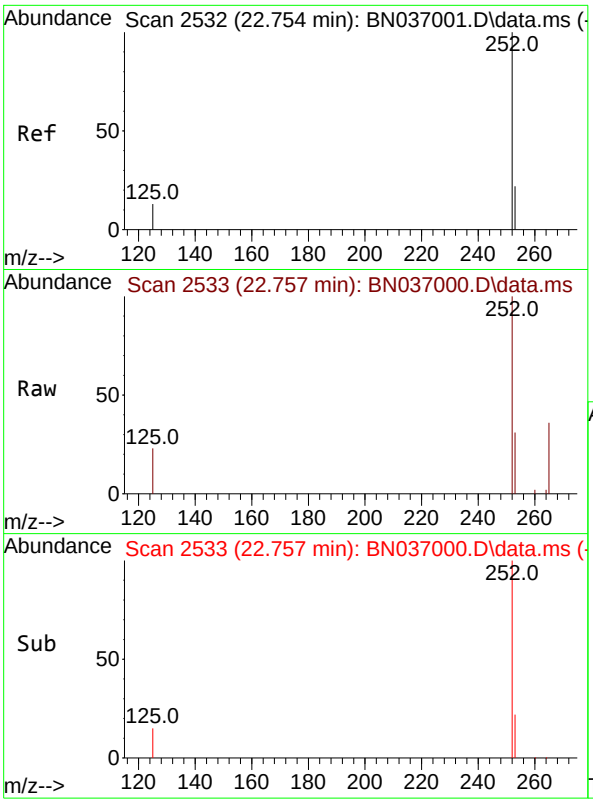


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.198 ng
RT: 25.628 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:276 Resp: 4426

Ion	Ratio	Lower	Upper
276	100		
138	27.9	22.7	34.1
277	24.6	20.0	30.0

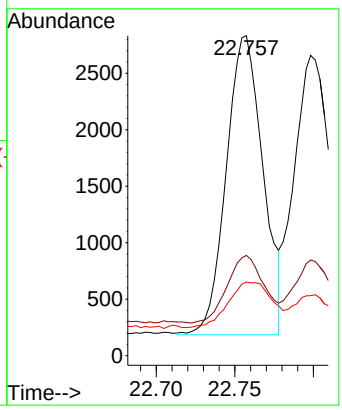




#37
Benzo(b)fluoranthene
Concen: 0.189 ng m
RT: 22.757 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:252 Resp: 430

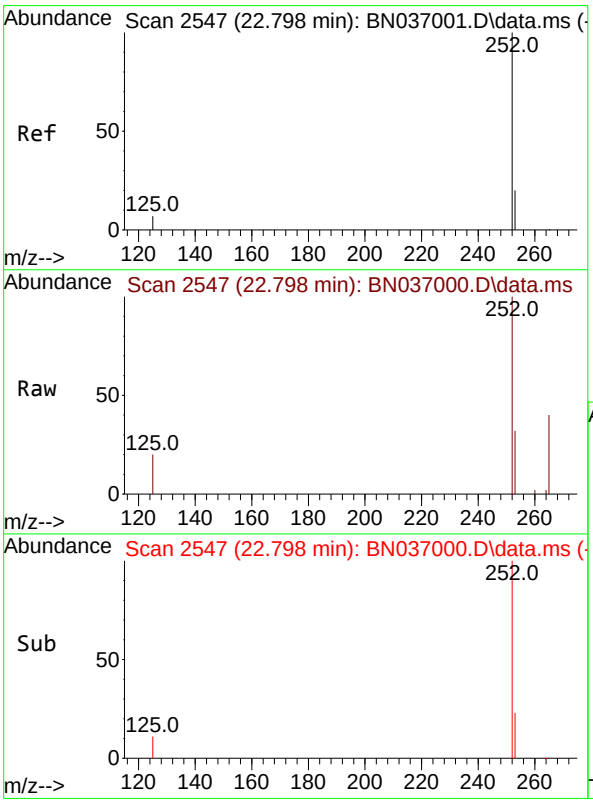
Ion	Ratio	Lower	Upper
252	100		
253	31.3	21.8	32.6
125	23.0	14.6	21.8#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

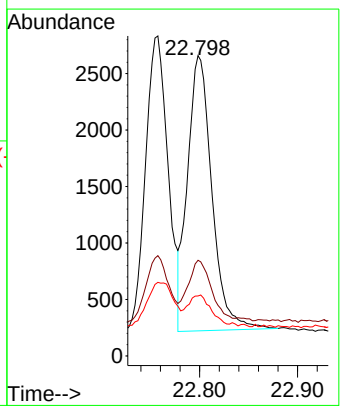
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

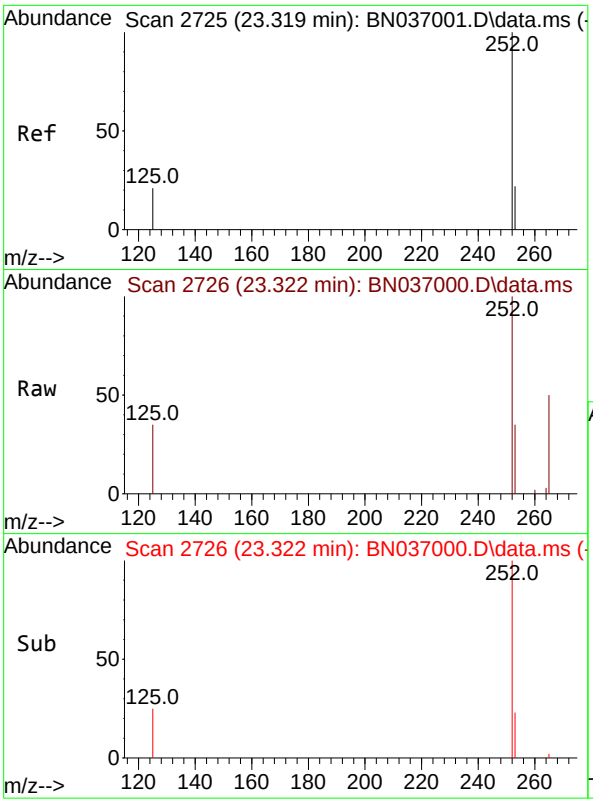


#38
Benzo(k)fluoranthene
Concen: 0.188 ng
RT: 22.798 min Scan# 2547
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:252 Resp: 4219

Ion	Ratio	Lower	Upper
252	100		
253	31.9	21.4	32.2
125	20.0	13.0	19.4#

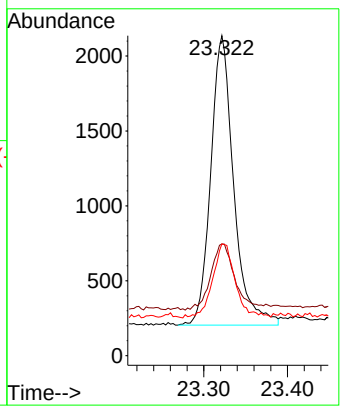




#39
Benzo(a)pyrene
Concen: 0.191 ng
RT: 23.322 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:252 Resp: 368

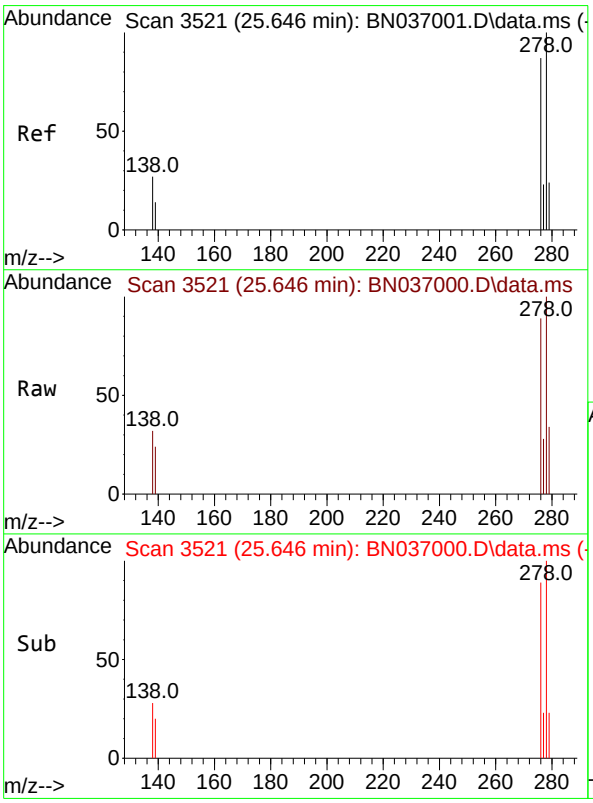
Ion	Ratio	Lower	Upper
252	100		
253	34.9	23.8	35.6
125	35.0	21.8	32.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

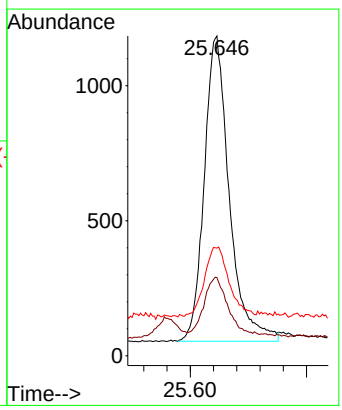
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

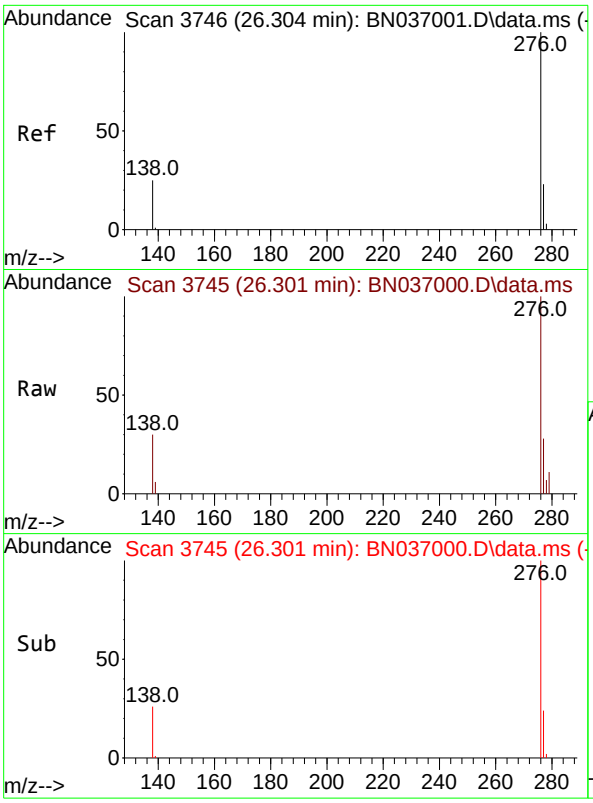


#40
Dibenzo(a,h)anthracene
Concen: 0.194 ng
RT: 25.646 min Scan# 3521
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:278 Resp: 3380

Ion	Ratio	Lower	Upper
278	100		
139	24.5	17.4	26.0
279	33.7	24.6	37.0

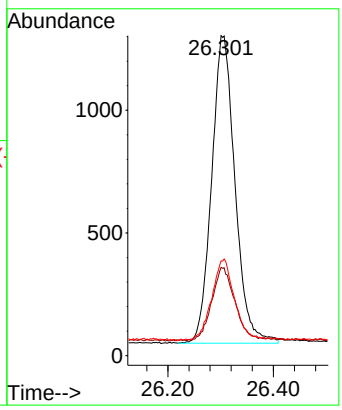




#41
Benzo(g,h,i)perylene
Concen: 0.204 ng
RT: 26.301 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:276 Resp: 386

Ion	Ratio	Lower	Upper
276	100		
277	27.6	20.2	30.4
138	29.6	22.0	33.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037001.D
Acq On : 13 May 2025 18:53
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: May 14 11:00:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

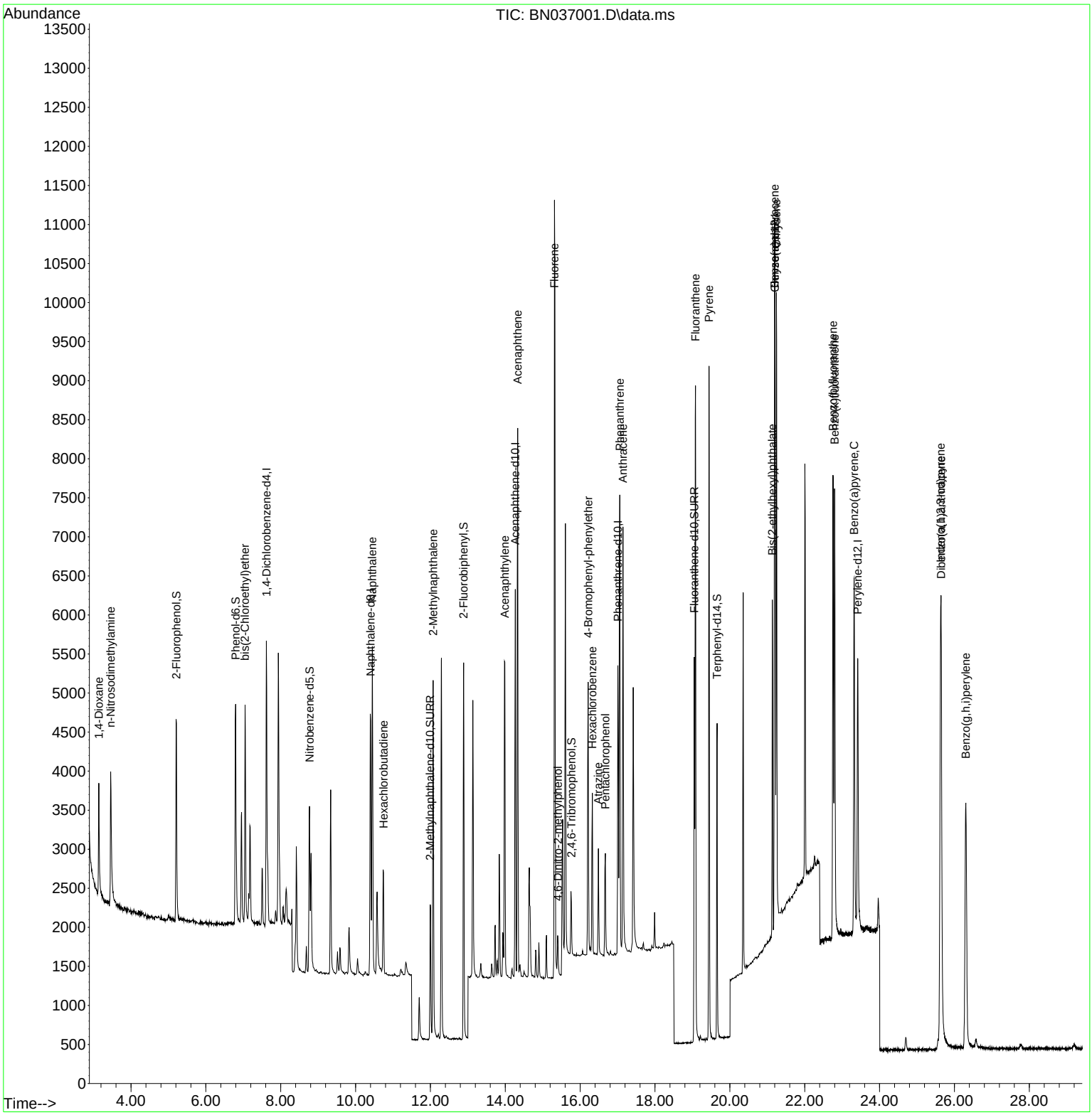
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	1733	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	4592	0.400	ng		0.00
13) Acenaphthene-d10	14.267	164	2562	0.400	ng		0.00
19) Phenanthrene-d10	17.009	188	5005	0.400	ng		0.00
29) Chrysene-d12	21.206	240	4458	0.400	ng		0.00
35) Perylene-d12	23.415	264	4521	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.213	112	1966	0.433	ng		0.00
5) Phenol-d6	6.795	99	2400	0.422	ng		0.00
8) Nitrobenzene-d5	8.771	82	1828	0.366	ng		0.00
11) 2-Methylnaphthalene-d10	11.996	152	2535	0.392	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	455	0.404	ng		0.00
15) 2-Fluorobiphenyl	12.888	172	4870	0.415	ng		0.00
27) Fluoranthene-d10	19.049	212	5393	0.393	ng		0.00
31) Terphenyl-d14	19.658	244	3883	0.407	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.140	88	888	0.418	ng		100
3) n-Nitrosodimethylamine	3.458	42	1699	0.372	ng		99
6) bis(2-Chloroethyl)ether	7.048	93	1999	0.382	ng		100
9) Naphthalene	10.447	128	5251	0.387	ng		100
10) Hexachlorobutadiene	10.746	225	1119	0.393	ng	#	100
12) 2-Methylnaphthalene	12.072	142	3380	0.387	ng		100
16) Acenaphthylene	13.989	152	4852	0.389	ng		100
17) Acenaphthene	14.331	154	3184	0.391	ng		100
18) Fluorene	15.314	166	4190	0.392	ng		100
20) 4,6-Dinitro-2-methylph...	15.410	198	367	0.377	ng		100
21) 4-Bromophenyl-phenylether	16.214	248	1252	0.396	ng		100
22) Hexachlorobenzene	16.326	284	1408	0.416	ng		100
23) Atrazine	16.487	200	1056	0.383	ng		100
24) Pentachlorophenol	16.673	266	706	0.376	ng		100
25) Phenanthrene	17.058	178	6468	0.395	ng		100
26) Anthracene	17.145	178	5835	0.392	ng		100
28) Fluoranthene	19.082	202	7510	0.384	ng		100
30) Pyrene	19.444	202	7697	0.404	ng		100
32) Benzo(a)anthracene	21.197	228	6620	0.394	ng		100
33) Chrysene	21.242	228	7204	0.406	ng		100
34) Bis(2-ethylhexyl)phtha...	21.135	149	4039	0.390	ng		100
36) Indeno(1,2,3-cd)pyrene	25.631	276	7438	0.403	ng		100
37) Benzo(b)fluoranthene	22.754	252	7242	0.386	ng		100
38) Benzo(k)fluoranthene	22.798	252	7424	0.401	ng		100
39) Benzo(a)pyrene	23.319	252	6245	0.393	ng		100
40) Dibenzo(a,h)anthracene	25.646	278	5753	0.400	ng		100
41) Benzo(g,h,i)perylene	26.304	276	6438	0.412	ng		100

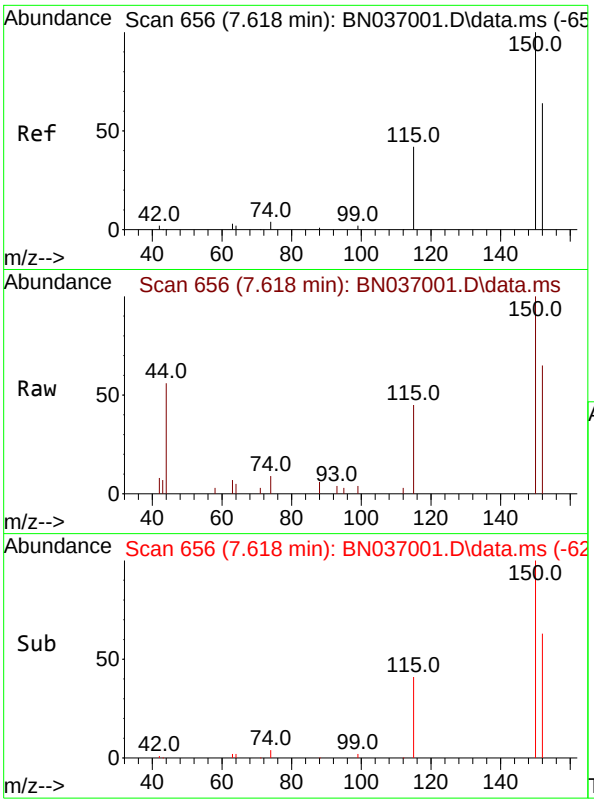
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037001.D
Acq On : 13 May 2025 18:53
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: May 14 11:00:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



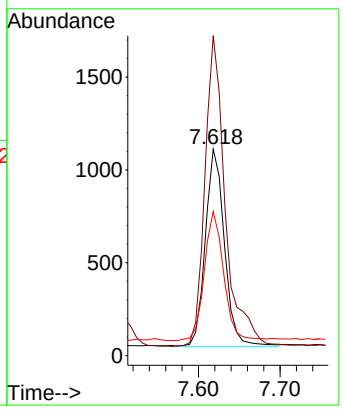


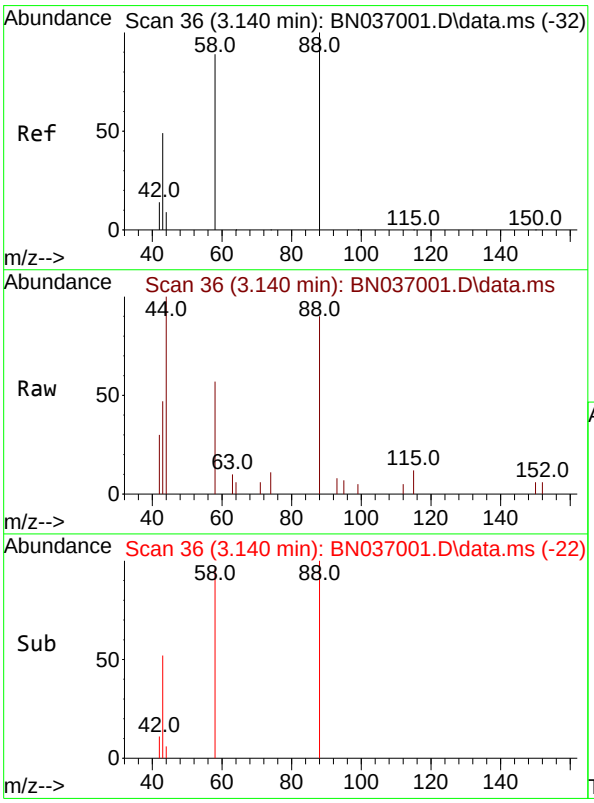
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 1733

Ion	Ratio	Lower	Upper
152	100		
150	154.9	123.9	185.9
115	69.8	55.8	83.8

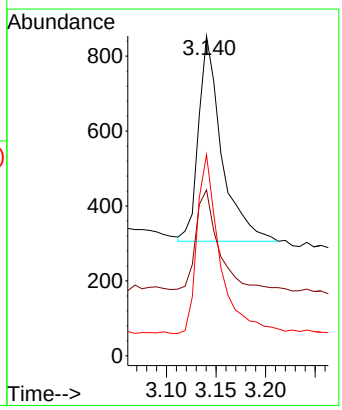


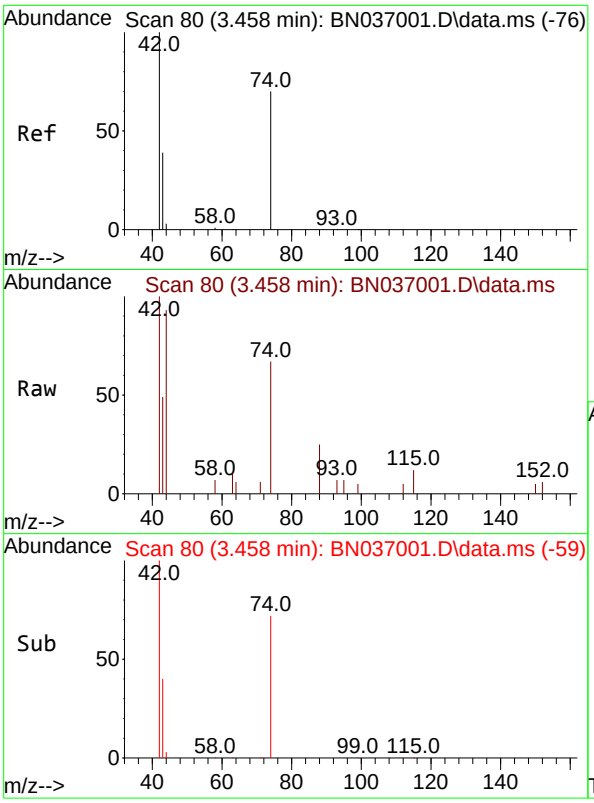


#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 88 Resp: 888

Ion	Ratio	Lower	Upper
88	100		
43	46.7	37.4	56.0
58	86.0	68.8	103.2



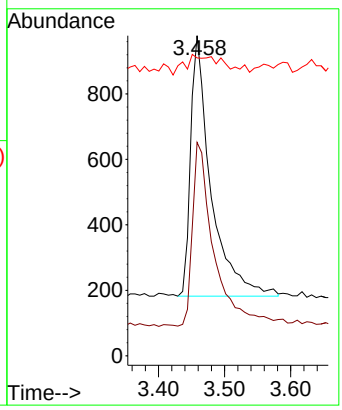


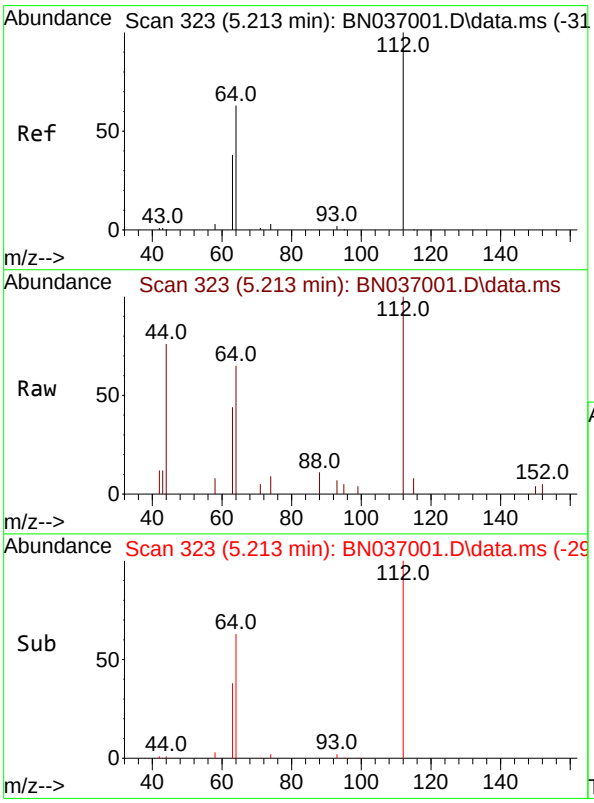
#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.458 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 1699

Ion	Ratio	Lower	Upper
42	100		
74	74.2	59.8	89.6
44	14.8	11.9	17.9

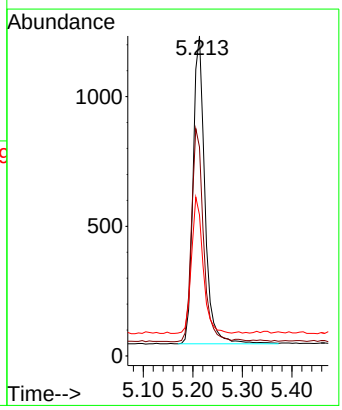


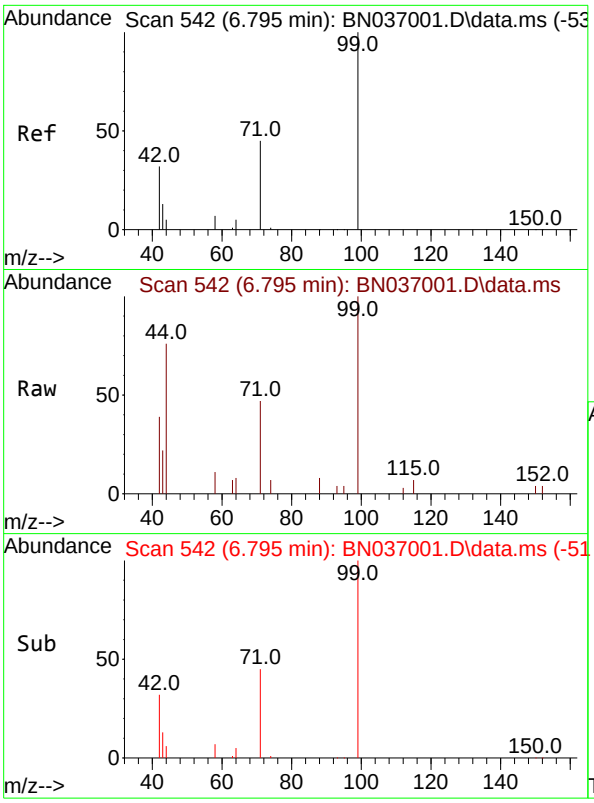


#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:112 Resp: 1966

Ion	Ratio	Lower	Upper
112	100		
64	69.6	55.7	83.5
63	43.2	34.6	51.8



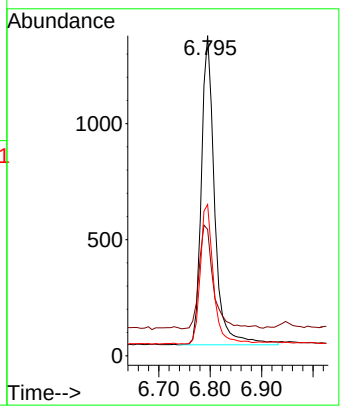


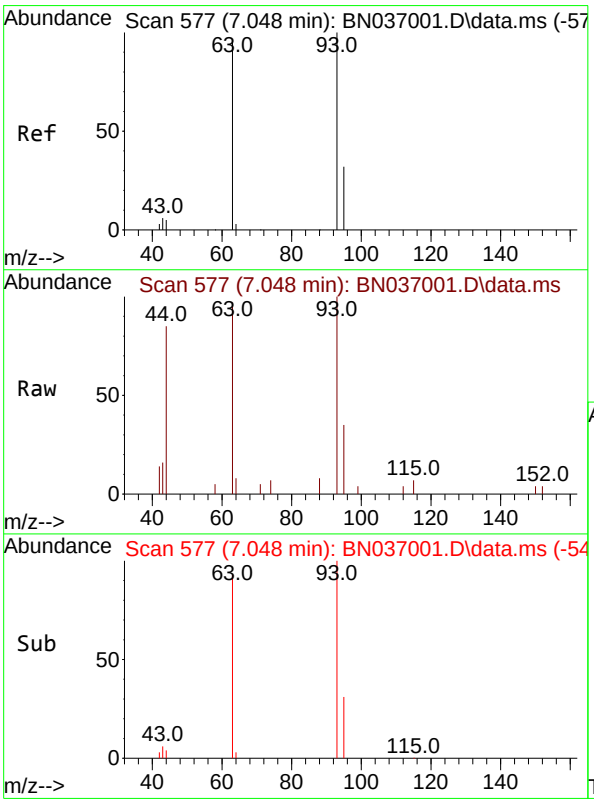
#5
Phenol-d6
Concen: 0.422 ng
RT: 6.795 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2400

Ion	Ratio	Lower	Upper
99	100		
42	36.6	29.3	43.9
71	44.6	35.7	53.5

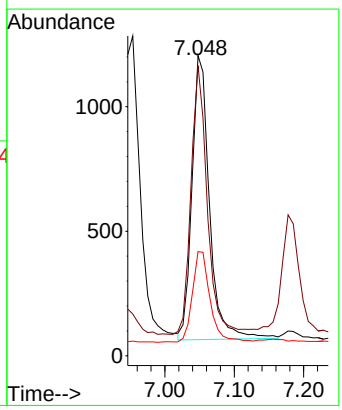


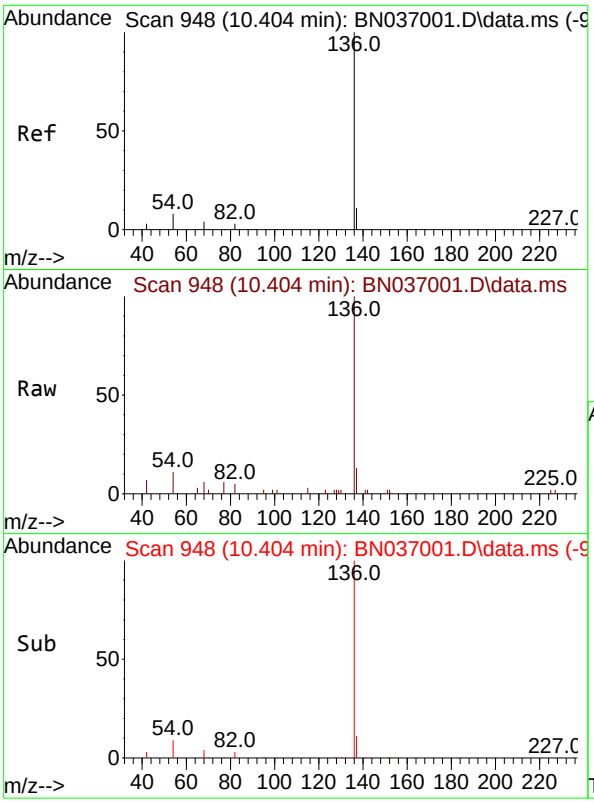


#6
bis(2-Chloroethyl)ether
Concen: 0.382 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 93 Resp: 1999

Ion	Ratio	Lower	Upper
93	100		
63	87.6	70.1	105.1
95	32.7	26.2	39.2



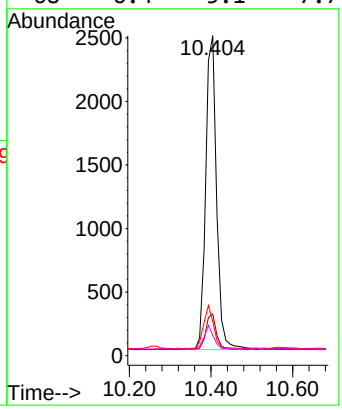


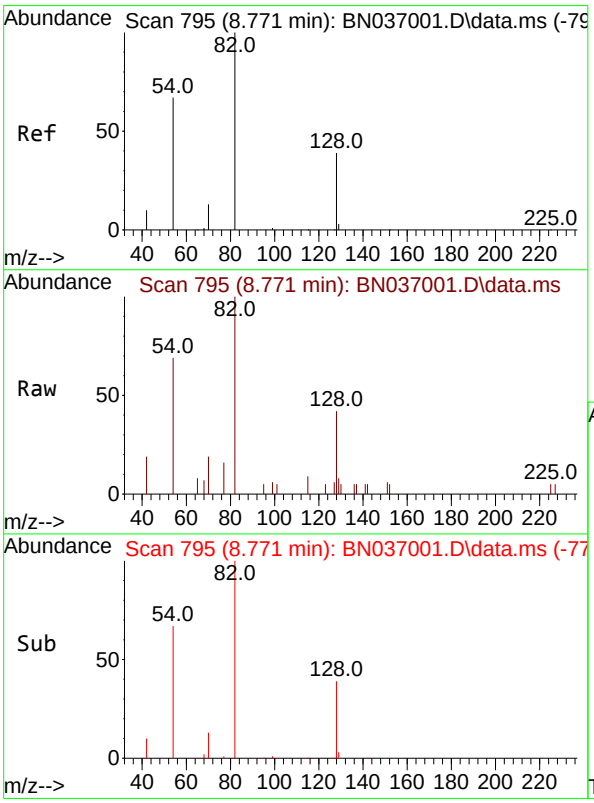
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 4592

Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.4	15.6
54	10.6	8.5	12.7
68	6.4	5.1	7.7

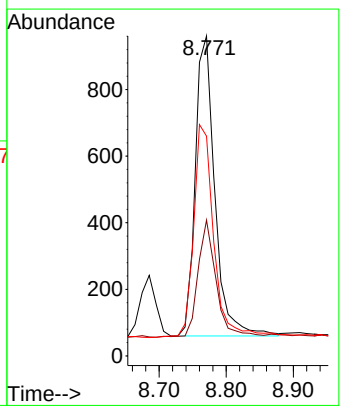


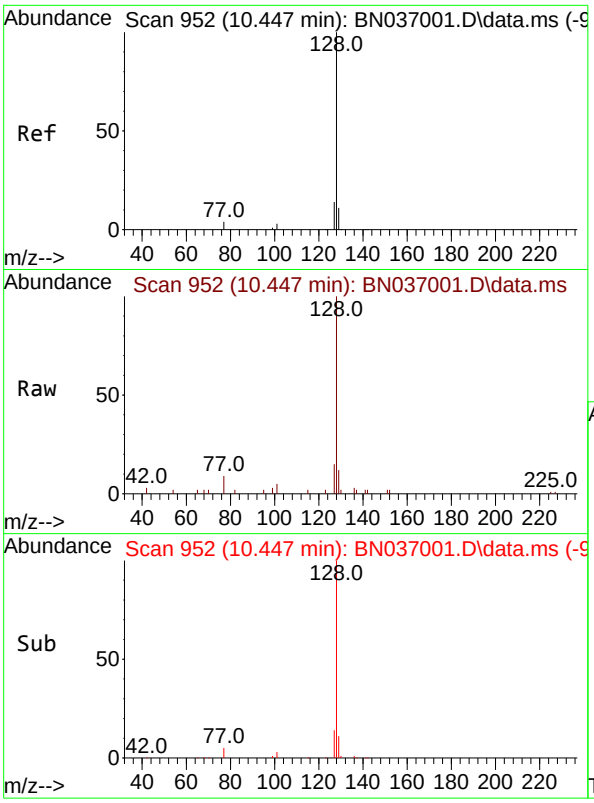


#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 82 Resp: 1828

Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	68.7	55.0	82.4



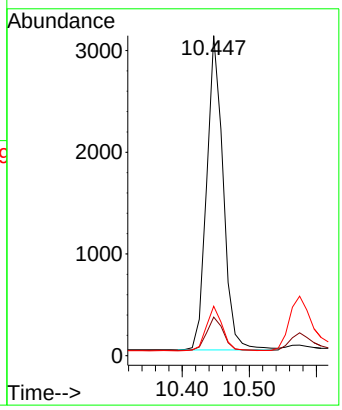


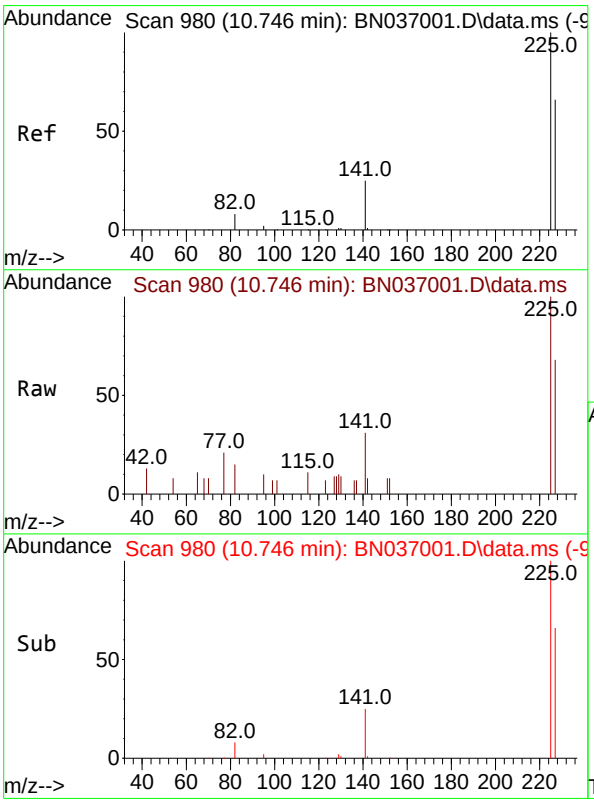
#9
Naphthalene
Concen: 0.387 ng
RT: 10.447 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 5251

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.7	14.5
127	15.5	12.4	18.6

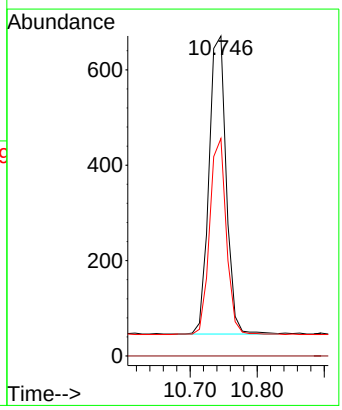


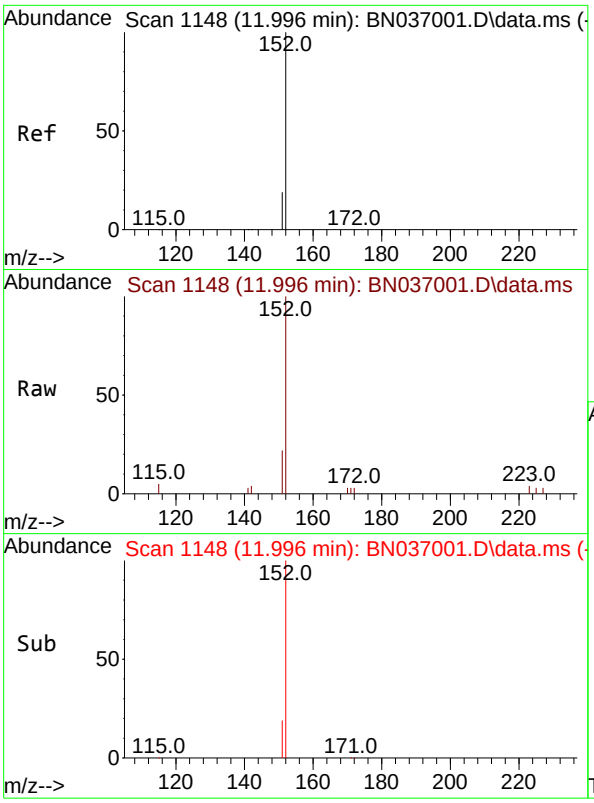


#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:225 Resp: 1119

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.9	76.3



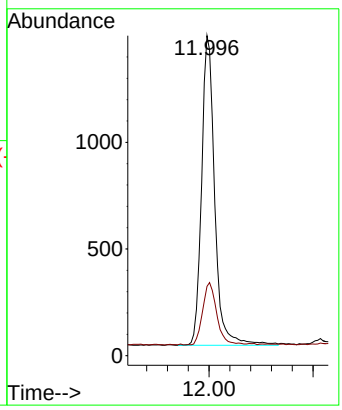


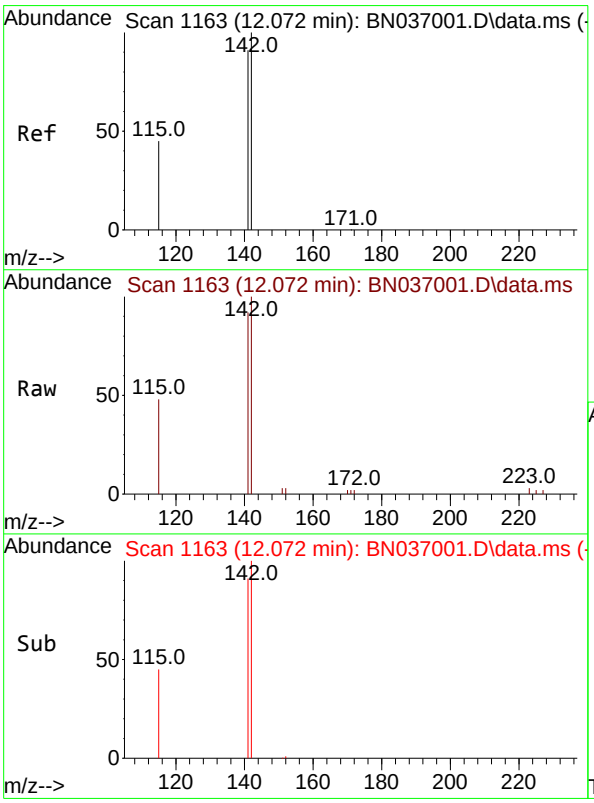
#11
2-Methylnaphthalene-d10
Concen: 0.392 ng
RT: 11.996 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2535

Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.5	26.3

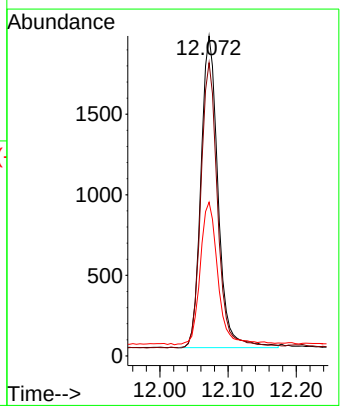


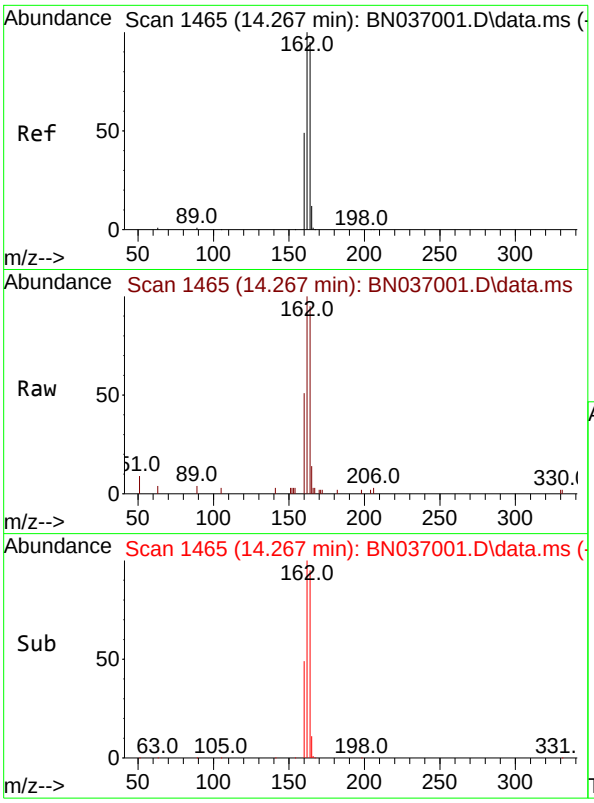


#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:142 Resp: 3380

Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.3	109.9
115	48.0	38.4	57.6



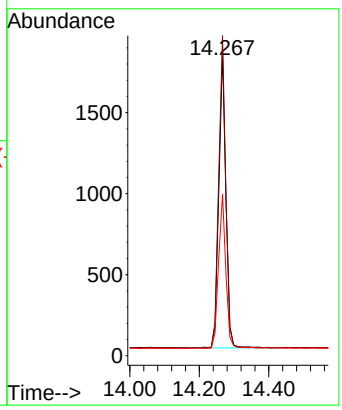


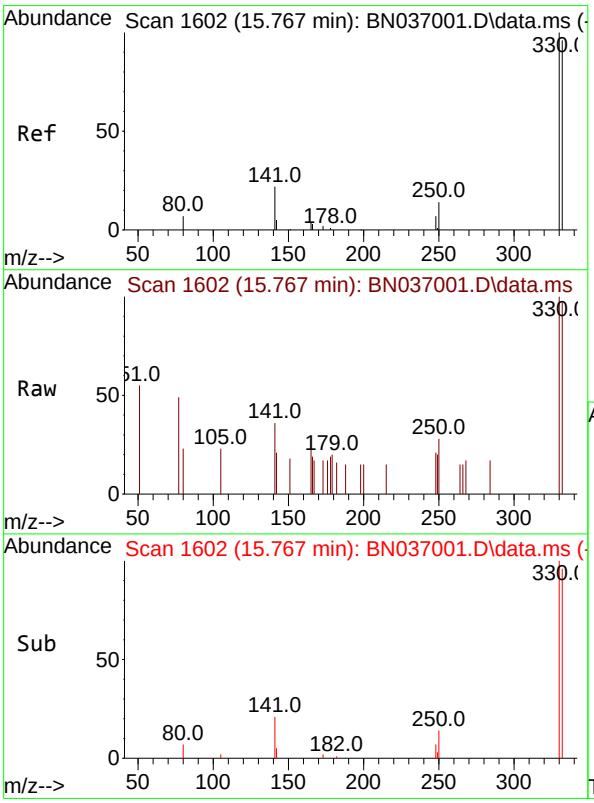
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 2562

Ion	Ratio	Lower	Upper
164	100		
162	105.3	84.2	126.4
160	53.2	42.6	63.8

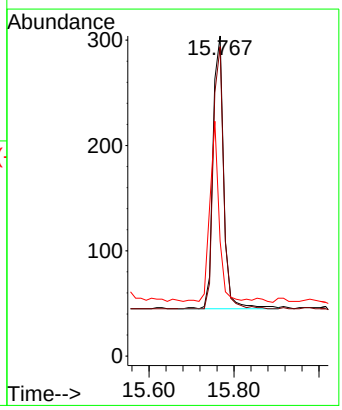


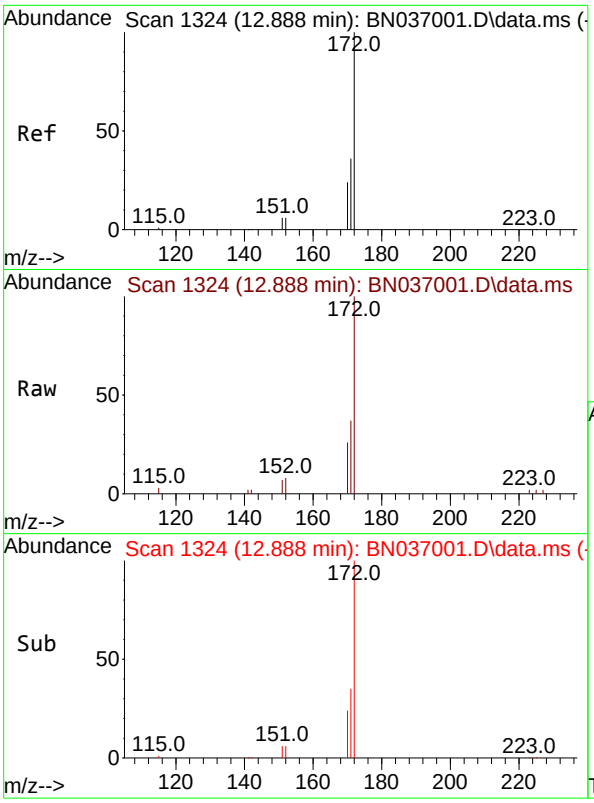


#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:330 Resp: 455

Ion	Ratio	Lower	Upper
330	100		
332	92.3	73.8	110.8
141	54.9	43.9	65.9



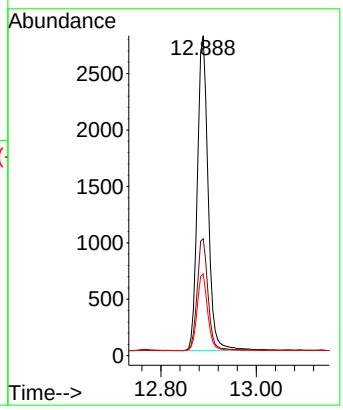


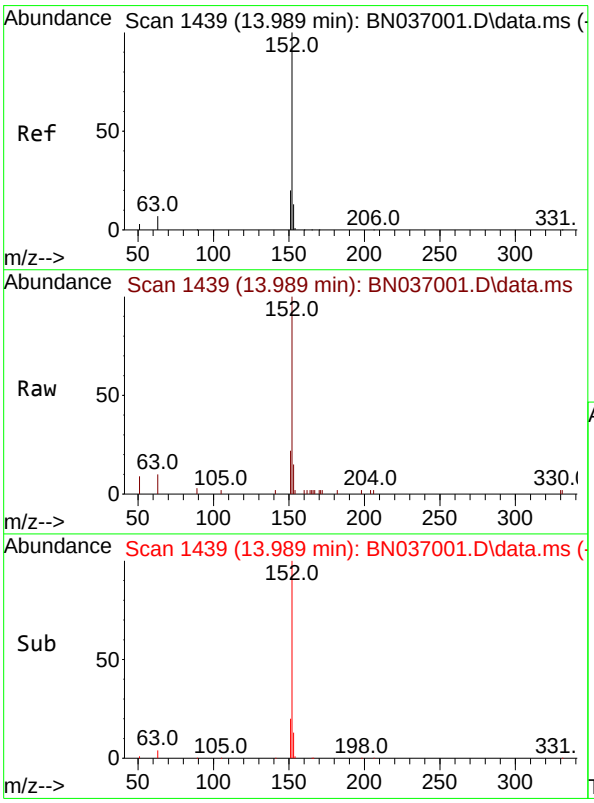
#15
2-Fluorobiphenyl
Concen: 0.415 ng
RT: 12.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 4870

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	25.6	20.5	30.7

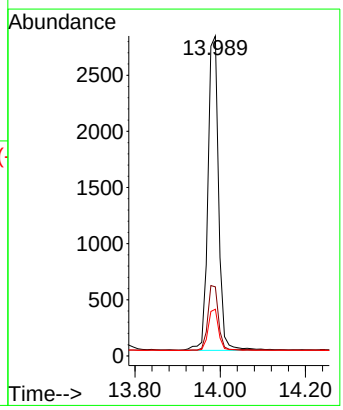


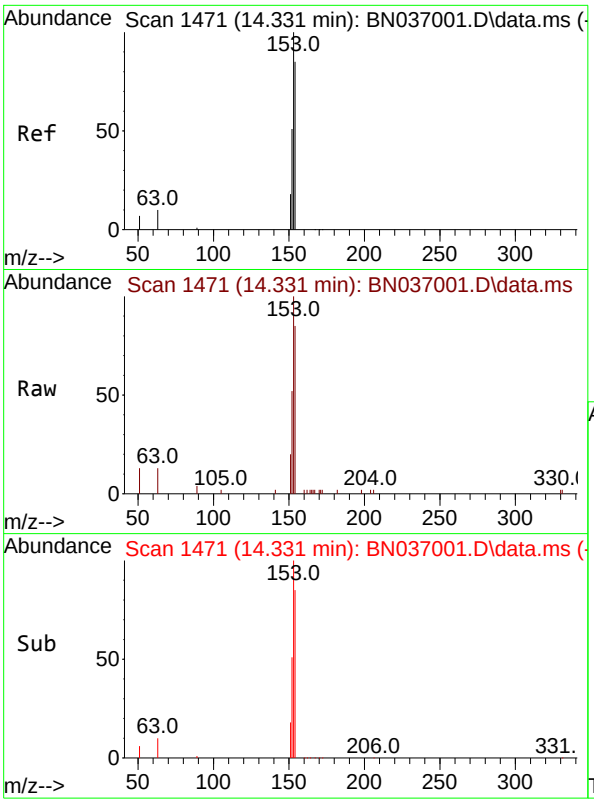


#16
Acenaphthylene
Concen: 0.389 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:152 Resp: 4852

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.1	10.5	15.7



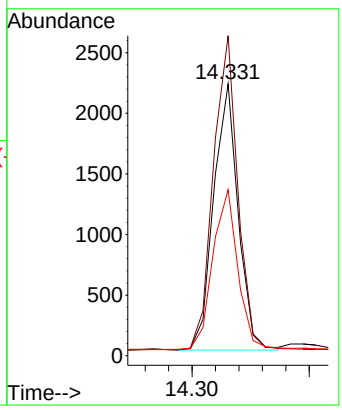


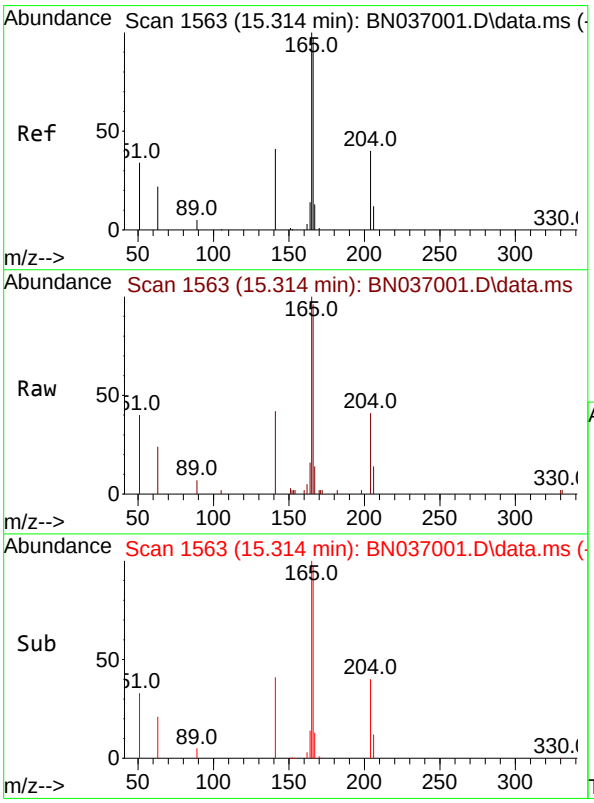
#17
Acenaphthene
Concen: 0.391 ng
RT: 14.331 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 3184

Ion	Ratio	Lower	Upper
154	100		
153	117.8	94.2	141.4
152	61.7	49.4	74.0

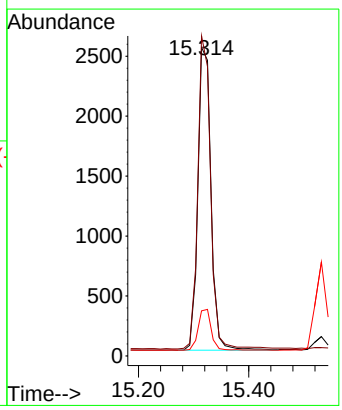


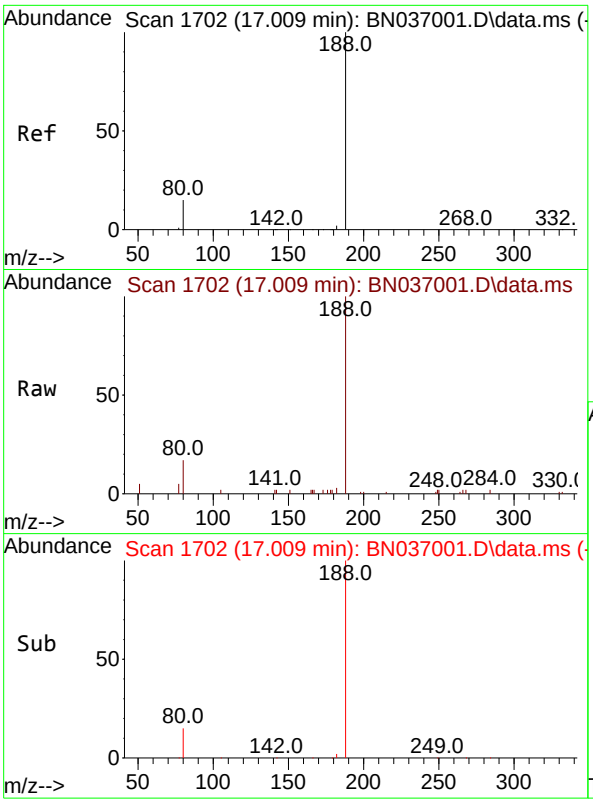


#18
Fluorene
Concen: 0.392 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:166 Resp: 4190

Ion	Ratio	Lower	Upper
166	100		
165	100.7	80.6	120.8
167	13.3	10.6	16.0



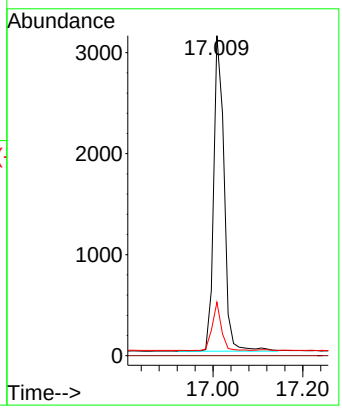


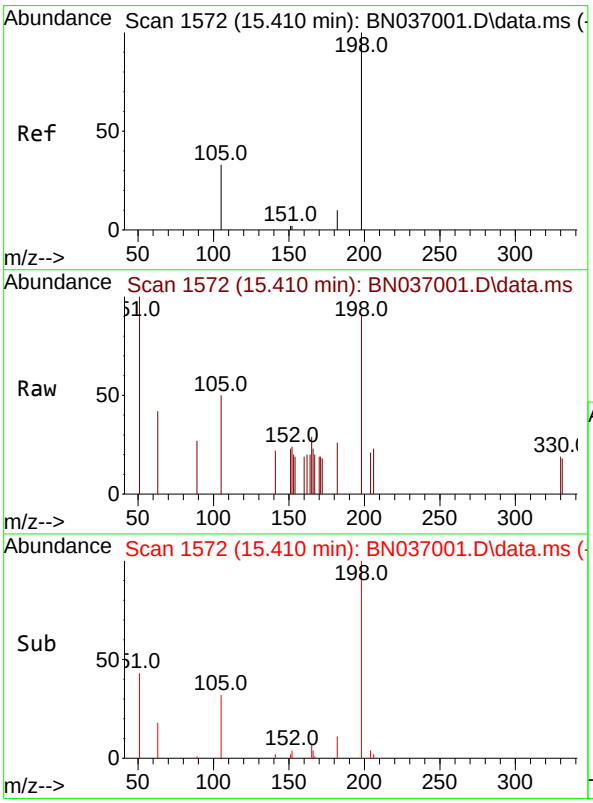
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 5005

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.7	13.4	20.0

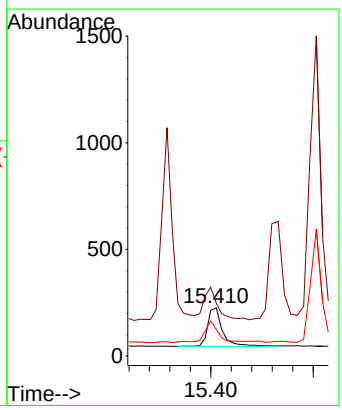


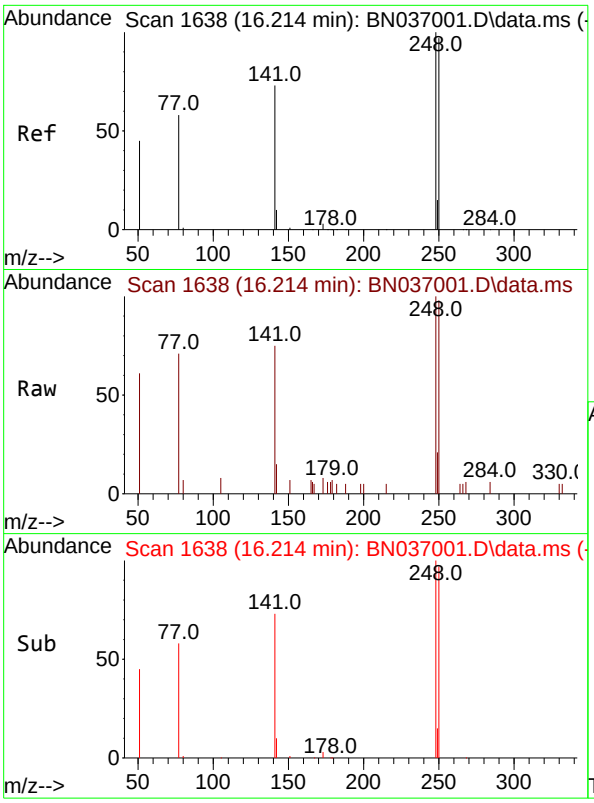


#20
4,6-Dinitro-2-methylphenol
Concen: 0.377 ng
RT: 15.410 min Scan# 1572
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:198 Resp: 367

Ion	Ratio	Lower	Upper
198	100		
51	109.7	87.8	131.6
105	55.3	44.2	66.4



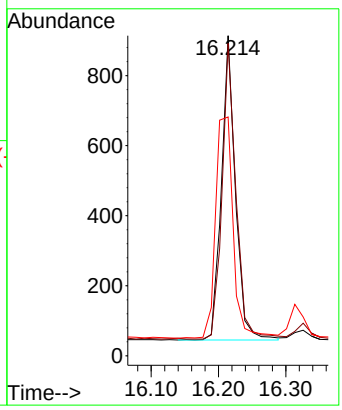


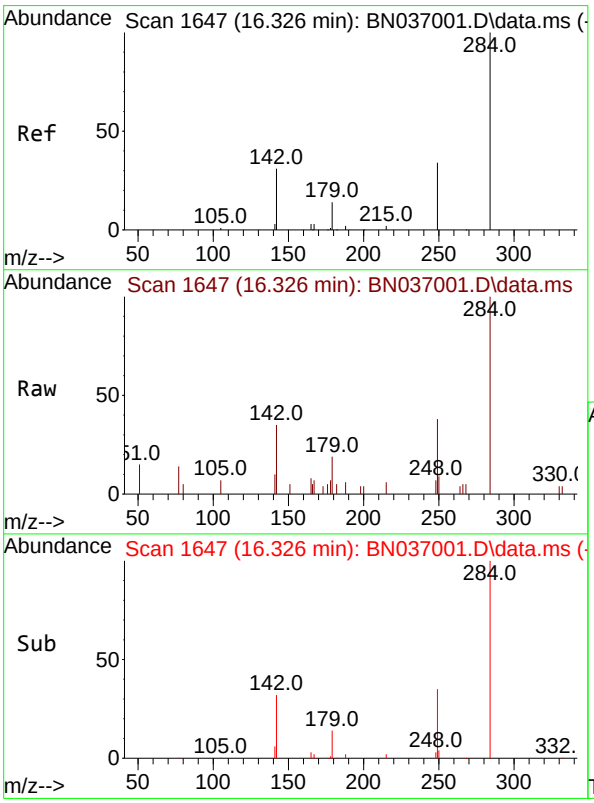
#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.214 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 1252

Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.1	117.1
141	74.6	59.7	89.5

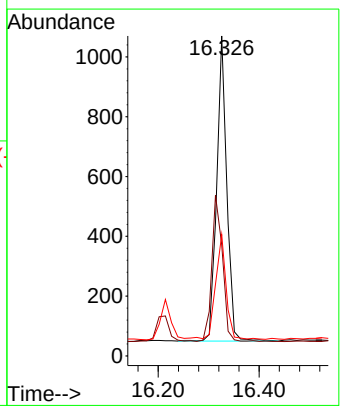


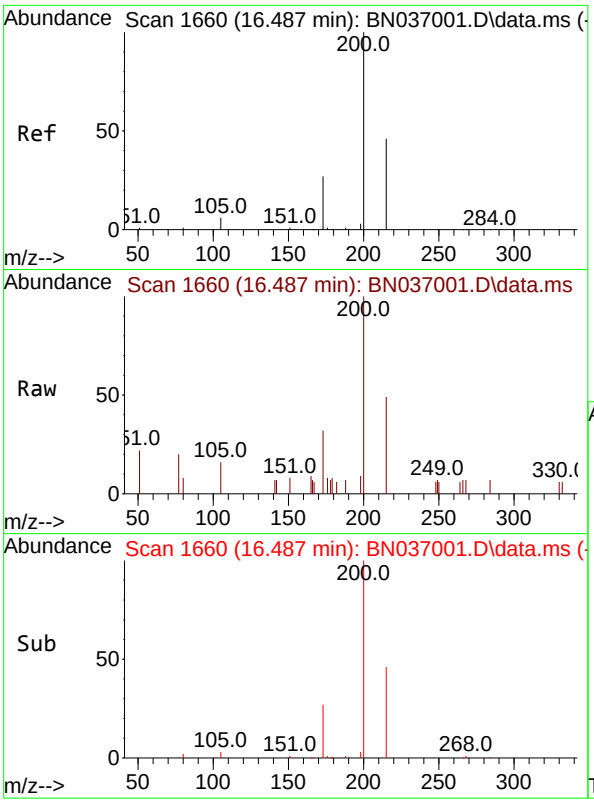


#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:284 Resp: 1408

Ion	Ratio	Lower	Upper
284	100		
142	51.5	41.2	61.8
249	35.9	28.7	43.1



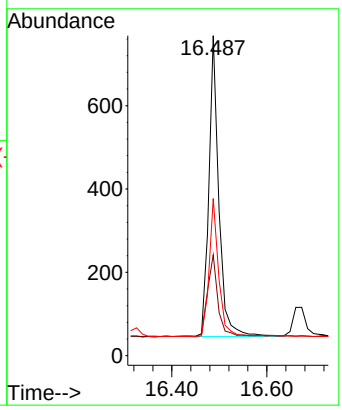


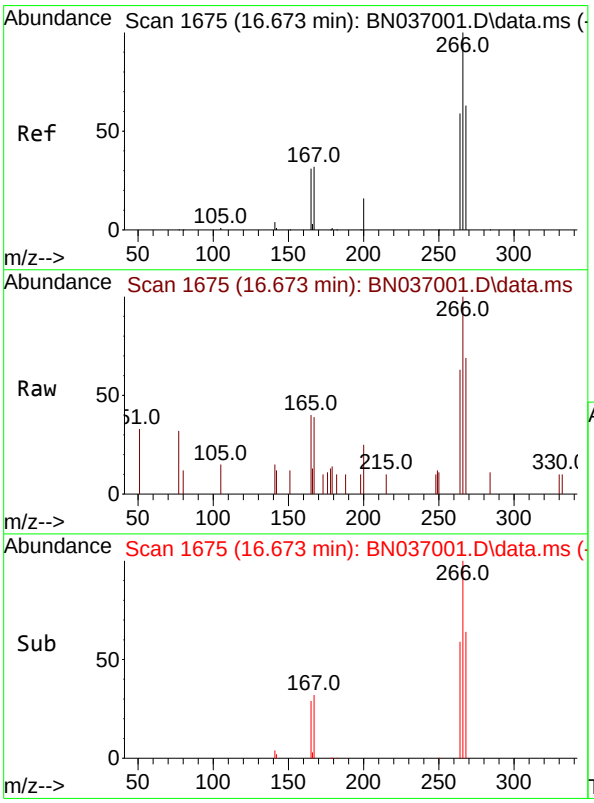
#23
Atrazine
Concen: 0.383 ng
RT: 16.487 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1056

Ion	Ratio	Lower	Upper
200	100		
173	31.5	25.2	37.8
215	49.1	39.3	58.9

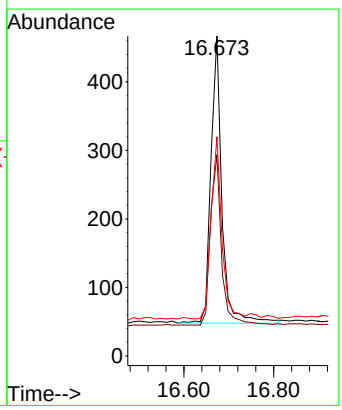


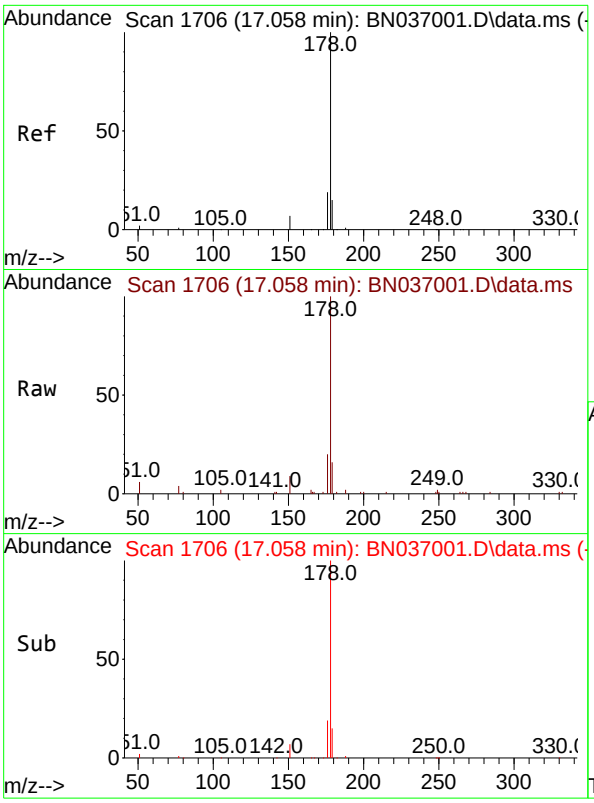


#24
Pentachlorophenol
Concen: 0.376 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:266 Resp: 706

Ion	Ratio	Lower	Upper
266	100		
264	59.9	47.9	71.9
268	62.5	50.0	75.0



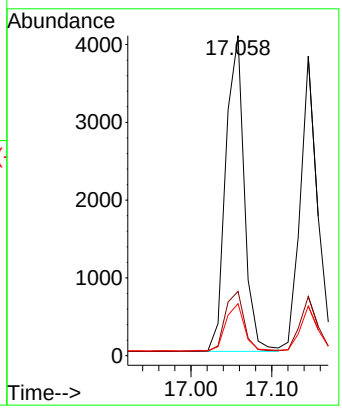


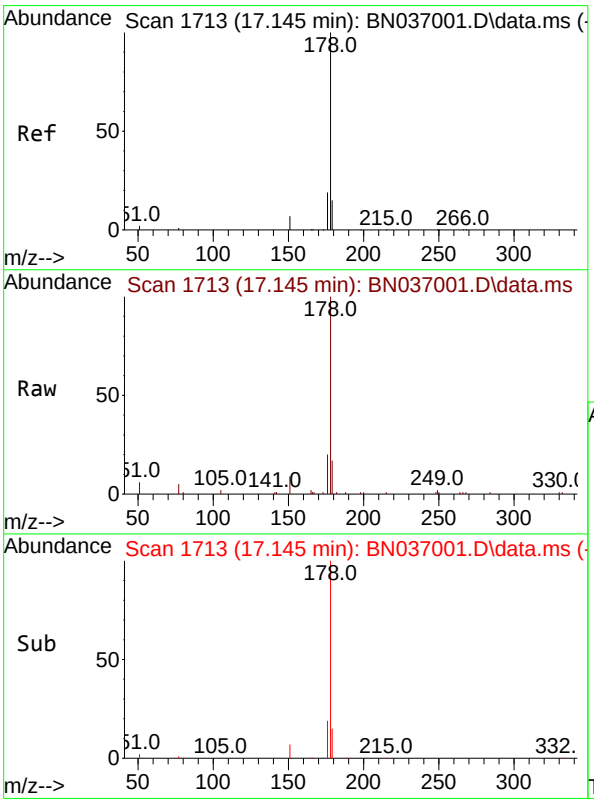
#25
Phenanthrene
Concen: 0.395 ng
RT: 17.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 6468

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.2	12.2	18.2

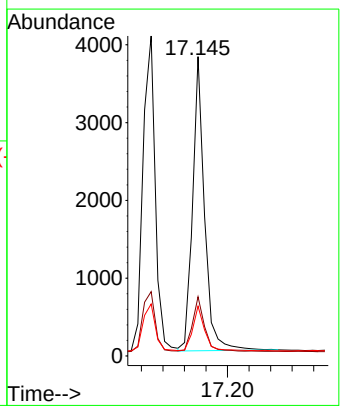


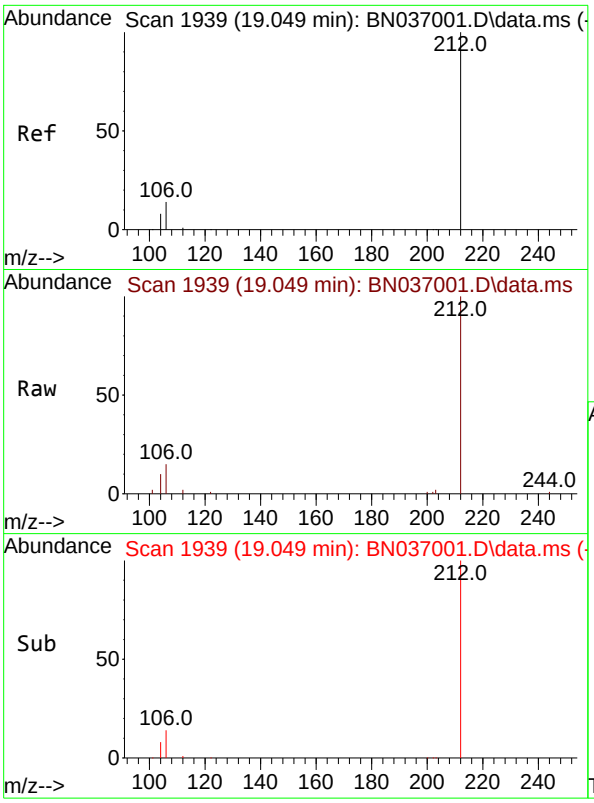


#26
Anthracene
Concen: 0.392 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:178 Resp: 5835

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.4	12.3	18.5



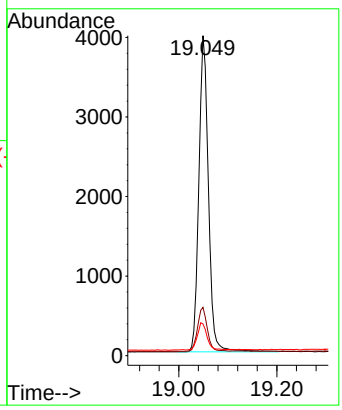


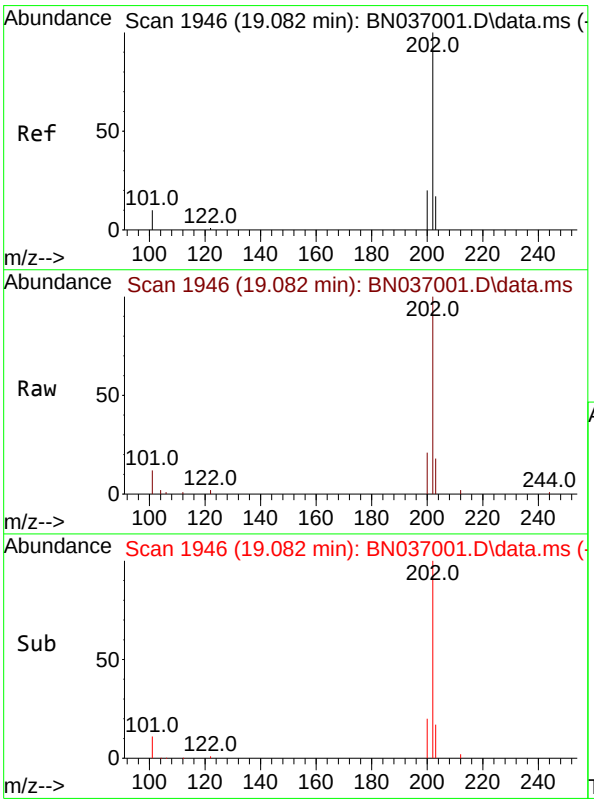
#27
Fluoranthene-d10
Concen: 0.393 ng
RT: 19.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 5393

Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.3	16.9
104	8.4	6.7	10.1

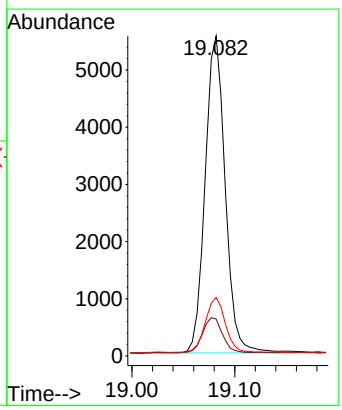


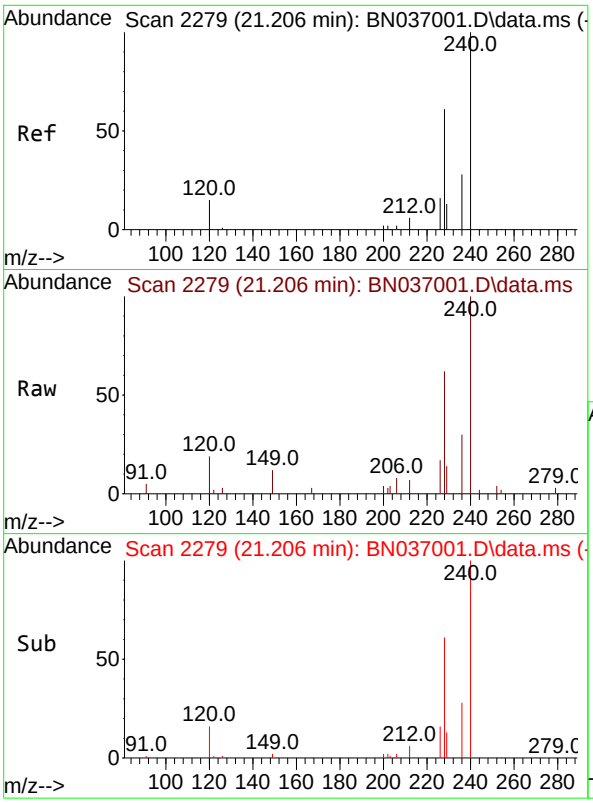


#28
Fluoranthene
Concen: 0.384 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:202 Resp: 7510

Ion	Ratio	Lower	Upper
202	100		
101	11.1	8.9	13.3
203	17.3	13.8	20.8



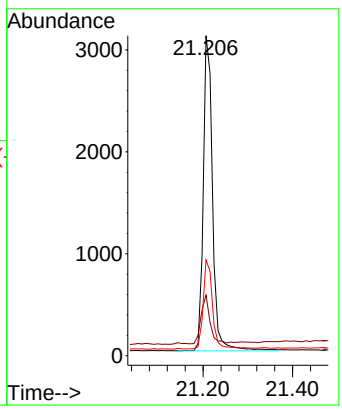


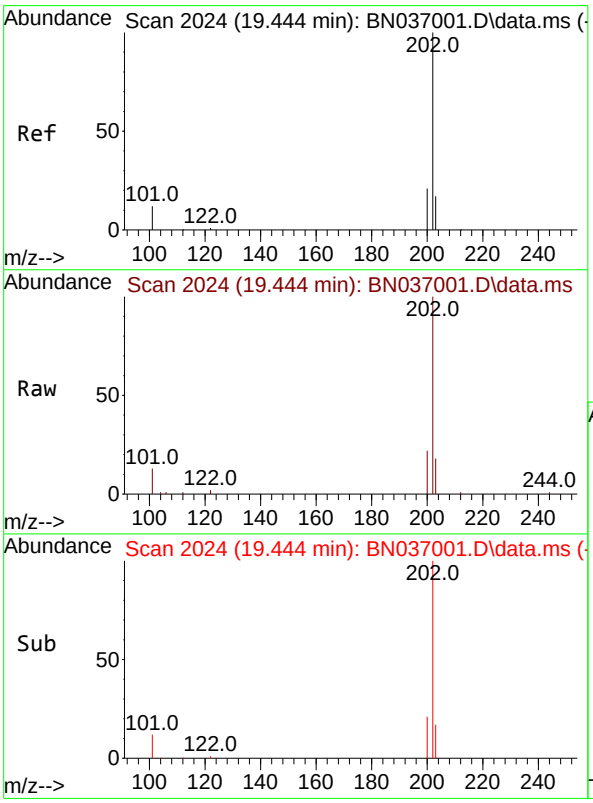
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 4458

Ion	Ratio	Lower	Upper
240	100		
120	18.9	15.1	22.7
236	30.0	24.0	36.0

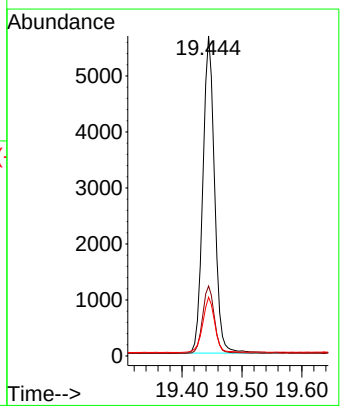


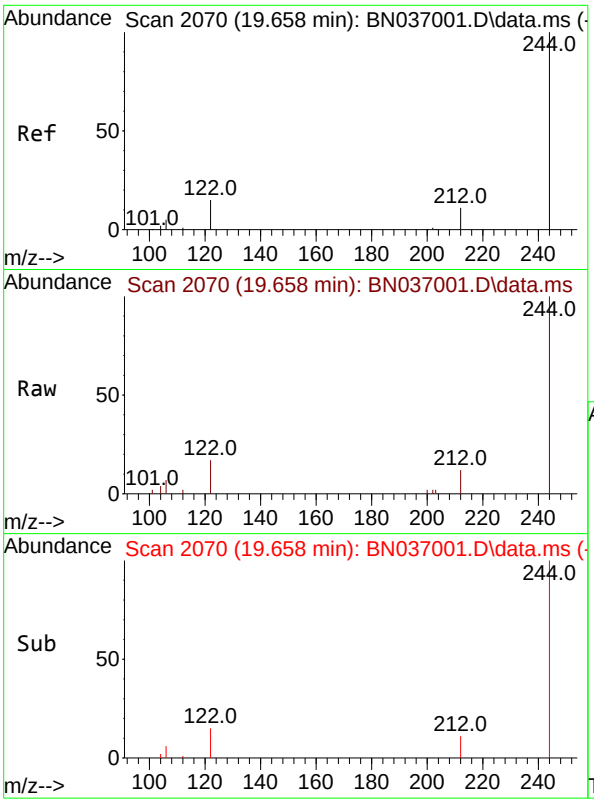


#30
Pyrene
Concen: 0.404 ng
RT: 19.444 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:202 Resp: 7697

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.8	14.2	21.4



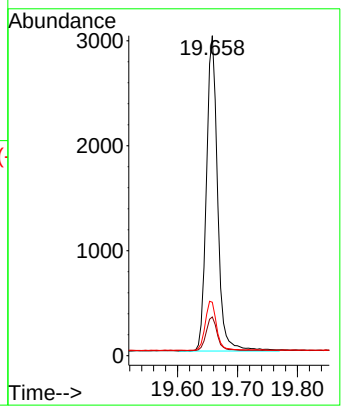


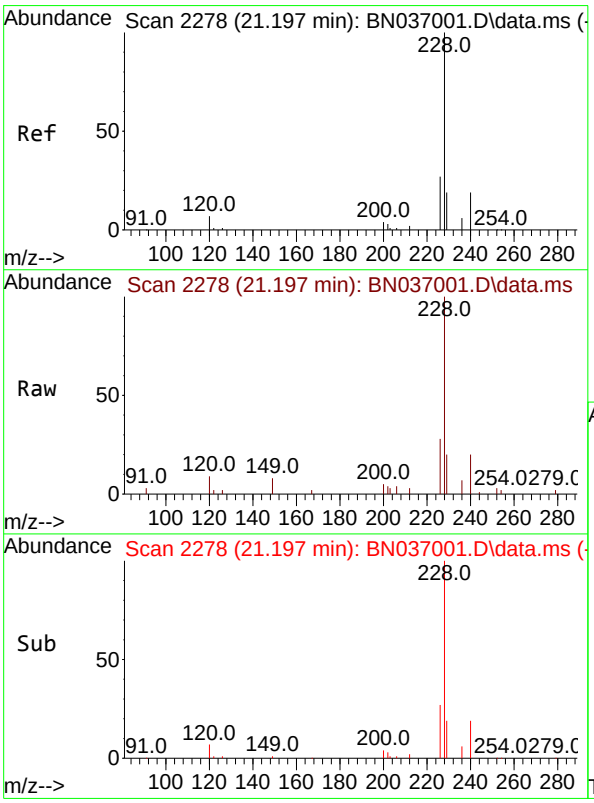
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.658 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 3883

Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.7	14.5
122	16.7	13.4	20.0

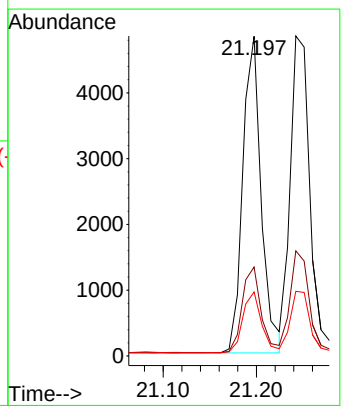


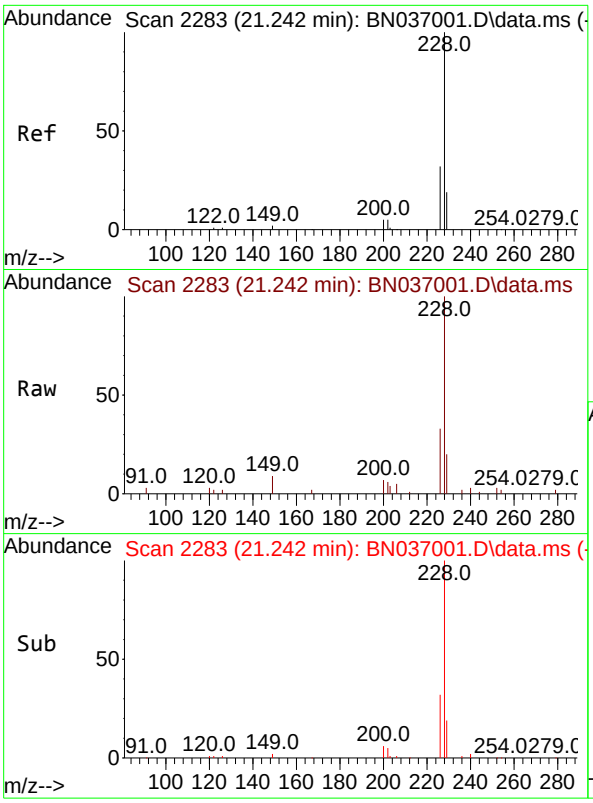


#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 21.197 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:228 Resp: 6620

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	20.0	16.0	24.0



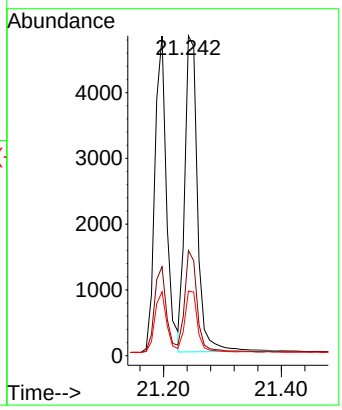


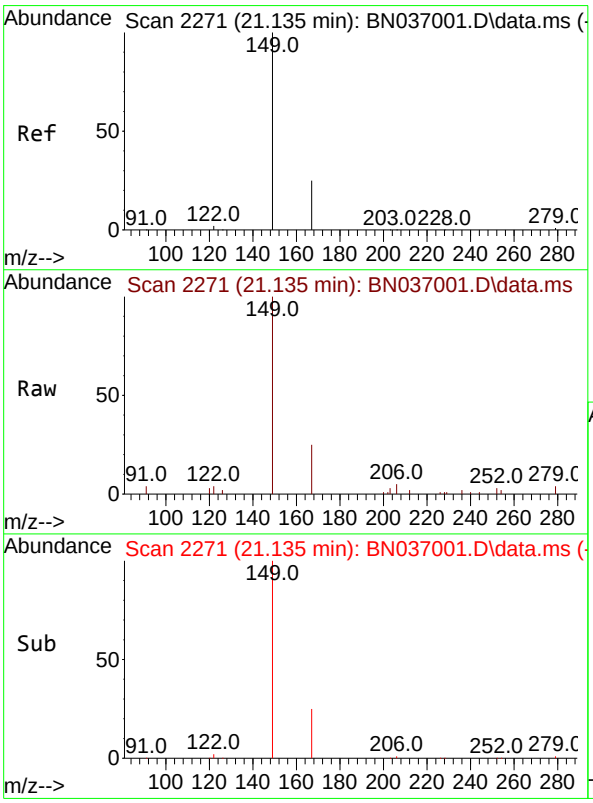
#33
Chrysene
Concen: 0.406 ng
RT: 21.242 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 7204

Ion	Ratio	Lower	Upper
228	100		
226	32.9	26.3	39.5
229	20.2	16.2	24.2

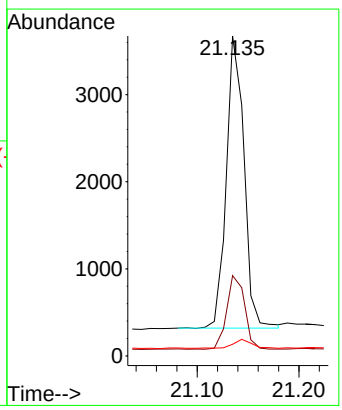


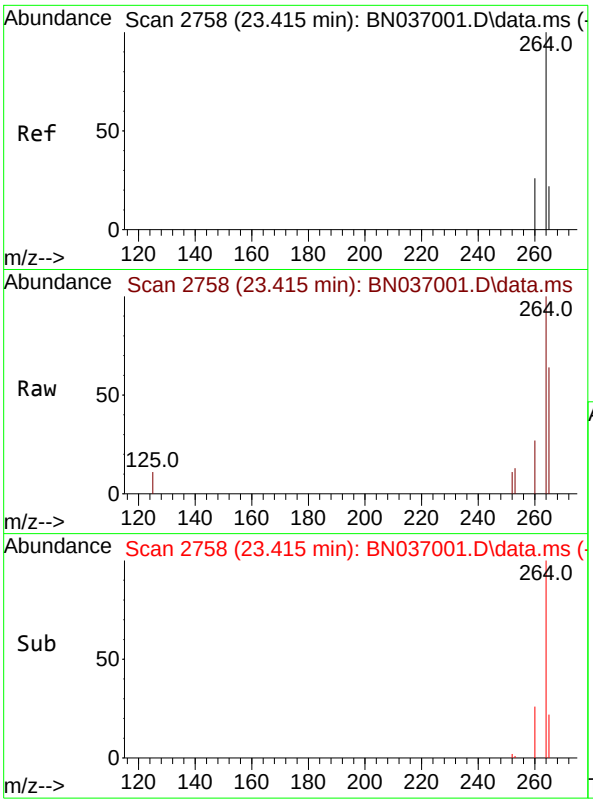


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.390 ng
RT: 21.135 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:149 Resp: 4039

Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.6	30.8
279	3.2	2.6	3.8



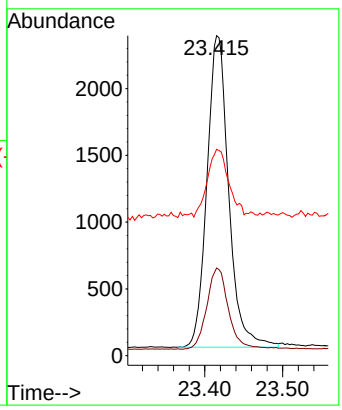


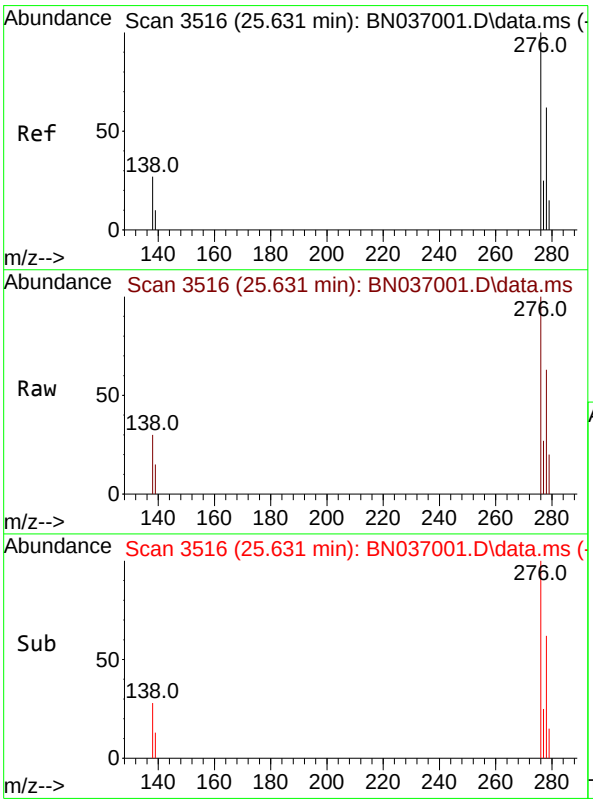
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 4521

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.9	32.9
265	64.5	51.6	77.4

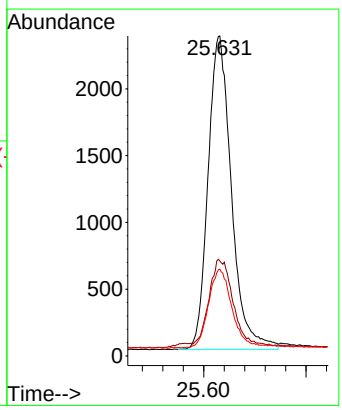


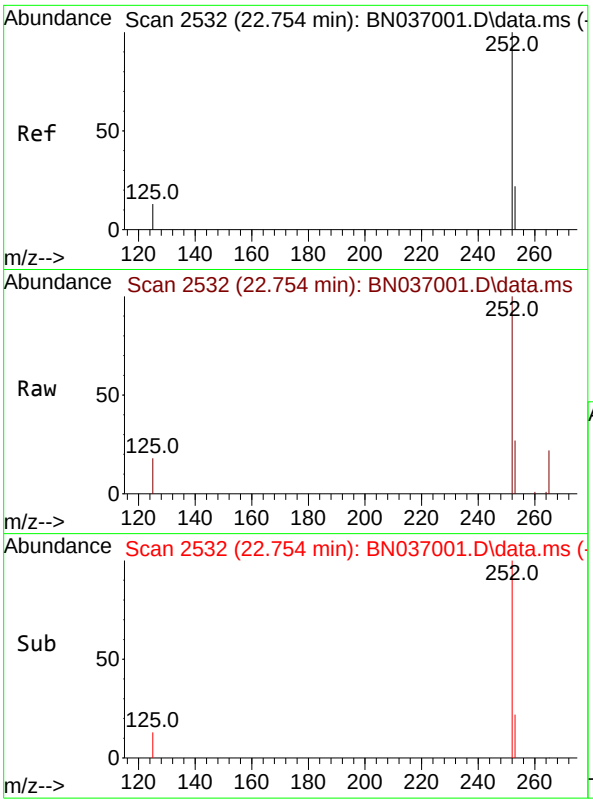


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.403 ng
RT: 25.631 min Scan# 3516
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:276 Resp: 7438

Ion	Ratio	Lower	Upper
276	100		
138	28.4	22.7	34.1
277	25.0	20.0	30.0



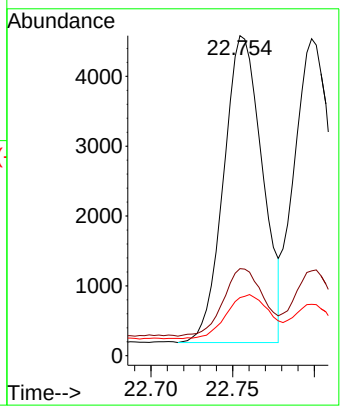


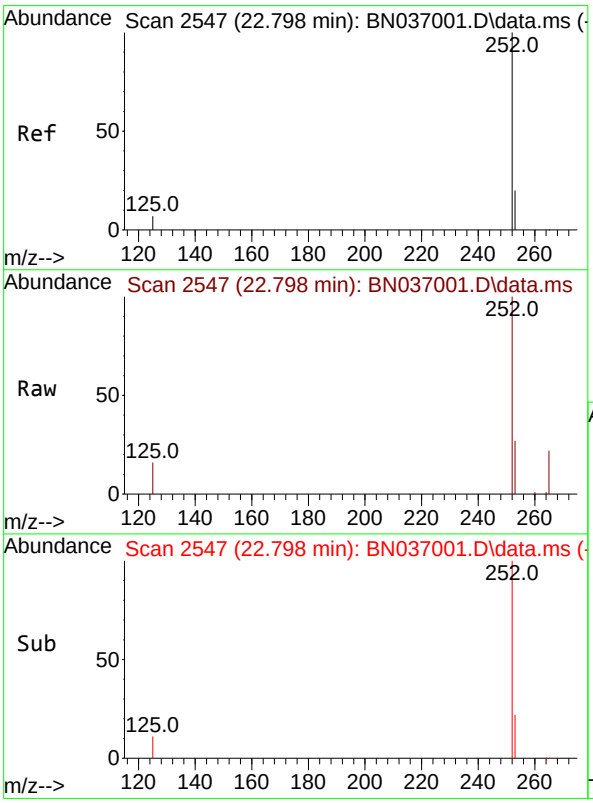
#37
Benzo(b)fluoranthene
Concen: 0.386 ng
RT: 22.754 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 7242

Ion	Ratio	Lower	Upper
252	100		
253	27.2	21.8	32.6
125	18.2	14.6	21.8

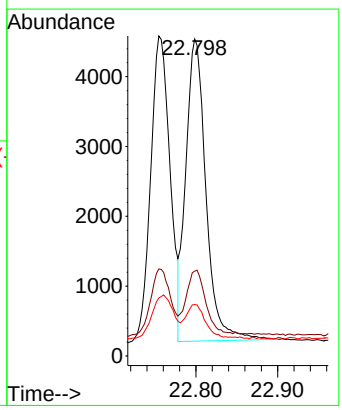


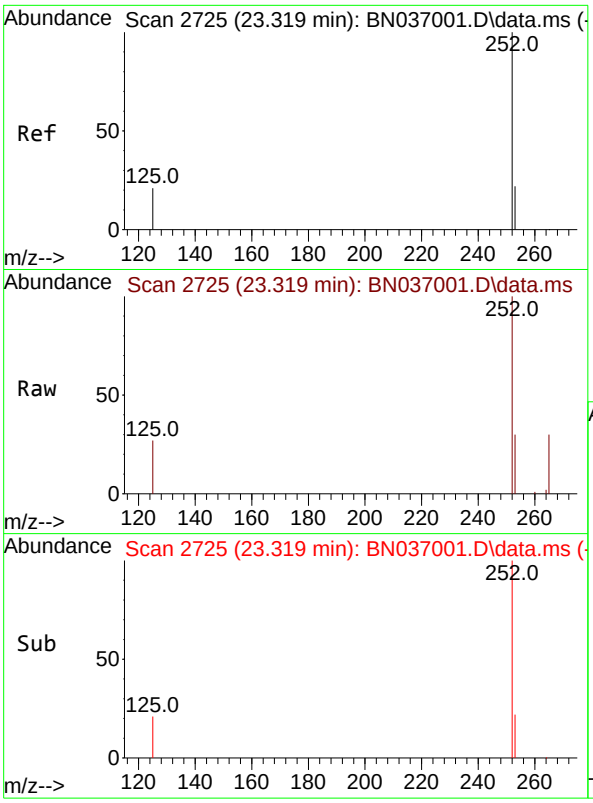


#38
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 22.798 min Scan# 2547
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:252 Resp: 7424

Ion	Ratio	Lower	Upper
252	100		
253	26.8	21.4	32.2
125	16.2	13.0	19.4



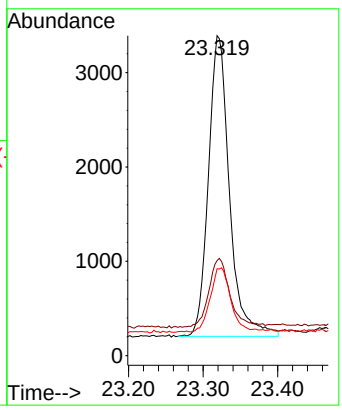


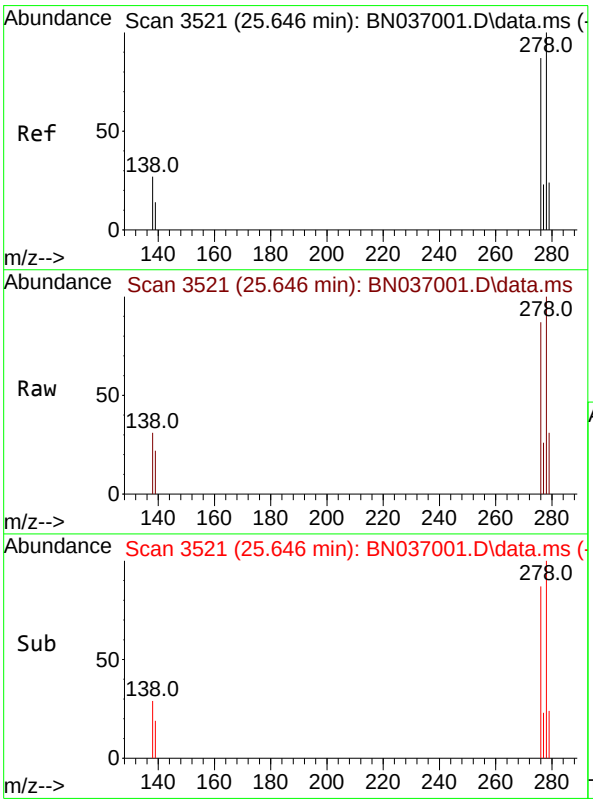
#39
Benzo(a)pyrene
Concen: 0.393 ng
RT: 23.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 6245

Ion	Ratio	Lower	Upper
252	100		
253	29.7	23.8	35.6
125	27.2	21.8	32.6

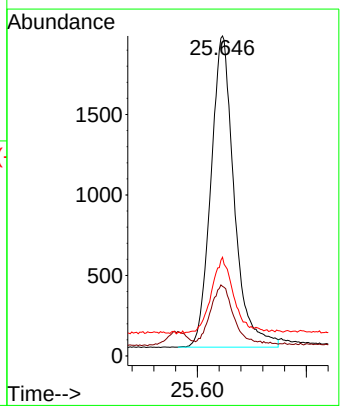


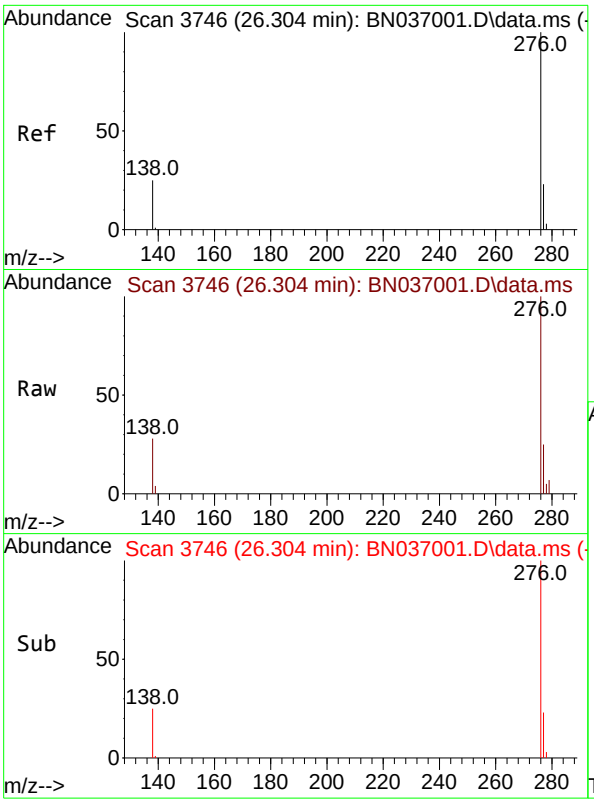


#40
Dibenzo(a,h)anthracene
Concen: 0.400 ng
RT: 25.646 min Scan# 3521
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:278 Resp: 5753

Ion	Ratio	Lower	Upper
278	100		
139	21.7	17.4	26.0
279	30.8	24.6	37.0



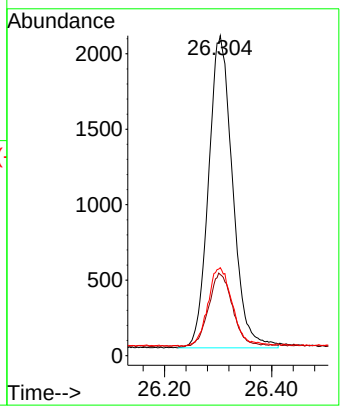


#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 26.304 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 6438

Ion	Ratio	Lower	Upper
276	100		
277	25.3	20.2	30.4
138	27.5	22.0	33.0



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037002.D
Acq On : 13 May 2025 19:29
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: May 14 11:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

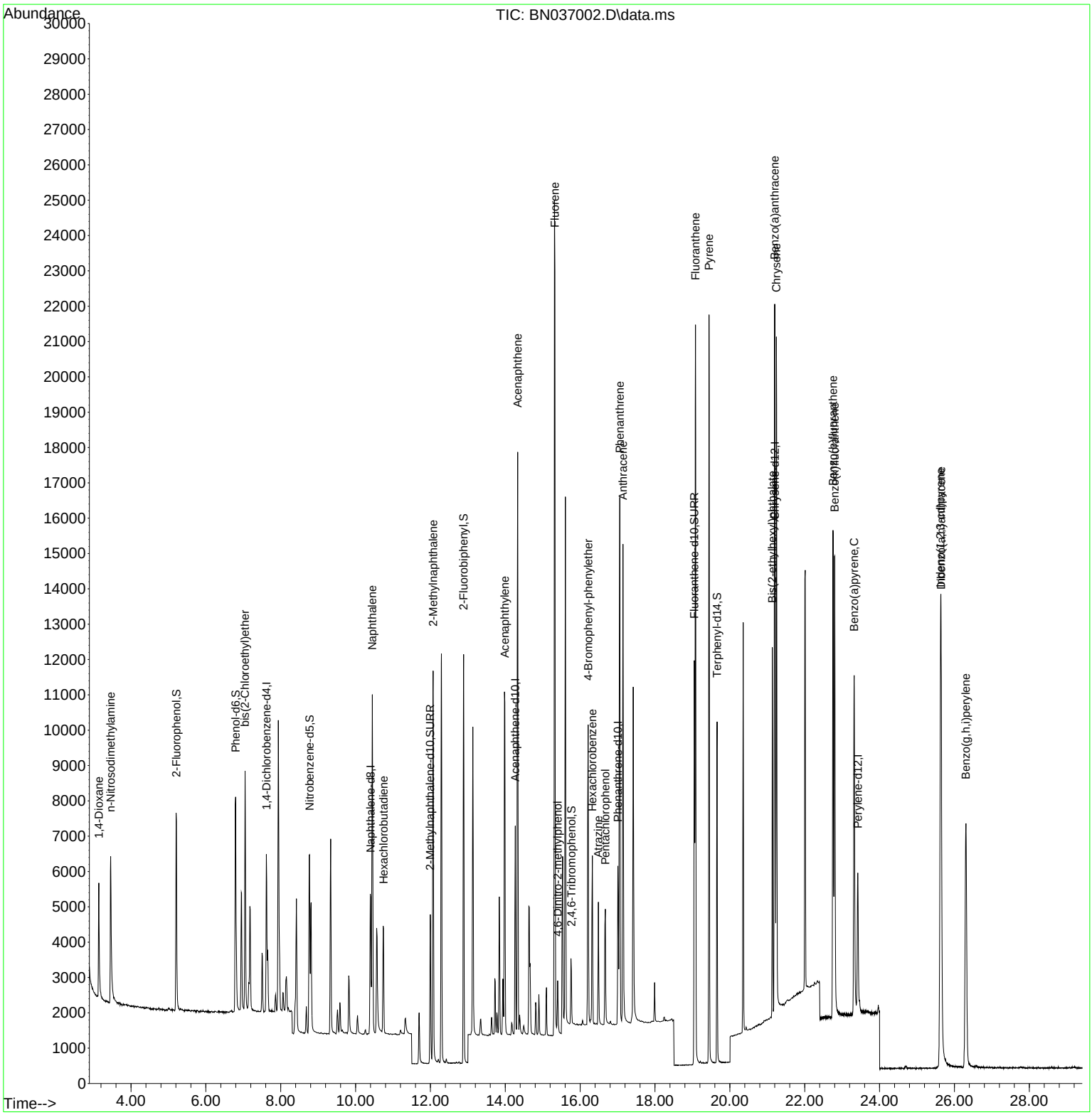
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	2018	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	5326	0.400	ng		0.00
13) Acenaphthene-d10	14.267	164	3047	0.400	ng		0.00
19) Phenanthrene-d10	17.009	188	5996	0.400	ng		0.00
29) Chrysene-d12	21.207	240	5456	0.400	ng		0.00
35) Perylene-d12	23.418	264	5077	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.213	112	4133	0.782	ng		0.00
5) Phenol-d6	6.795	99	4989	0.754	ng		0.00
8) Nitrobenzene-d5	8.771	82	4266	0.736	ng		0.00
11) 2-Methylnaphthalene-d10	11.996	152	5833	0.778	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	972	0.726	ng		0.00
15) 2-Fluorobiphenyl	12.889	172	10981	0.787	ng		0.00
27) Fluoranthene-d10	19.054	212	12492	0.760	ng		0.00
31) Terphenyl-d14	19.658	244	8975	0.769	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.141	88	1965	0.794	ng		97
3) n-Nitrosodimethylamine	3.458	42	3920	0.737	ng	#	94
6) bis(2-Chloroethyl)ether	7.048	93	4579	0.752	ng		99
9) Naphthalene	10.447	128	11949	0.759	ng		97
10) Hexachlorobutadiene	10.746	225	2502	0.757	ng	#	100
12) 2-Methylnaphthalene	12.072	142	7803	0.771	ng		98
16) Acenaphthylene	13.989	152	11268	0.760	ng		100
17) Acenaphthene	14.331	154	7416	0.765	ng		99
18) Fluorene	15.325	166	9818	0.772	ng		99
20) 4,6-Dinitro-2-methylph...	15.400	198	946	0.760	ng		90
21) 4-Bromophenyl-phenylether	16.214	248	2963	0.782	ng		95
22) Hexachlorobenzene	16.326	284	3104	0.766	ng		97
23) Atrazine	16.487	200	2560	0.775	ng		92
24) Pentachlorophenol	16.674	266	1644	0.730	ng		97
25) Phenanthrene	17.058	178	15146	0.773	ng		100
26) Anthracene	17.145	178	13548	0.760	ng		99
28) Fluoranthene	19.082	202	17938	0.766	ng		100
30) Pyrene	19.444	202	18075	0.774	ng		100
32) Benzo(a)anthracene	21.198	228	15689	0.764	ng		99
33) Chrysene	21.242	228	16717	0.769	ng		98
34) Bis(2-ethylhexyl)phtha...	21.135	149	9326	0.737	ng		99
36) Indeno(1,2,3-cd)pyrene	25.629	276	15921	0.768	ng		99
37) Benzo(b)fluoranthene	22.755	252	16240	0.772	ng	#	93
38) Benzo(k)fluoranthene	22.798	252	16259	0.782	ng		94
39) Benzo(a)pyrene	23.322	252	13516	0.757	ng	#	87
40) Dibenzo(a,h)anthracene	25.643	278	12556	0.777	ng		94
41) Benzo(g,h,i)perylene	26.307	276	13503	0.769	ng		98

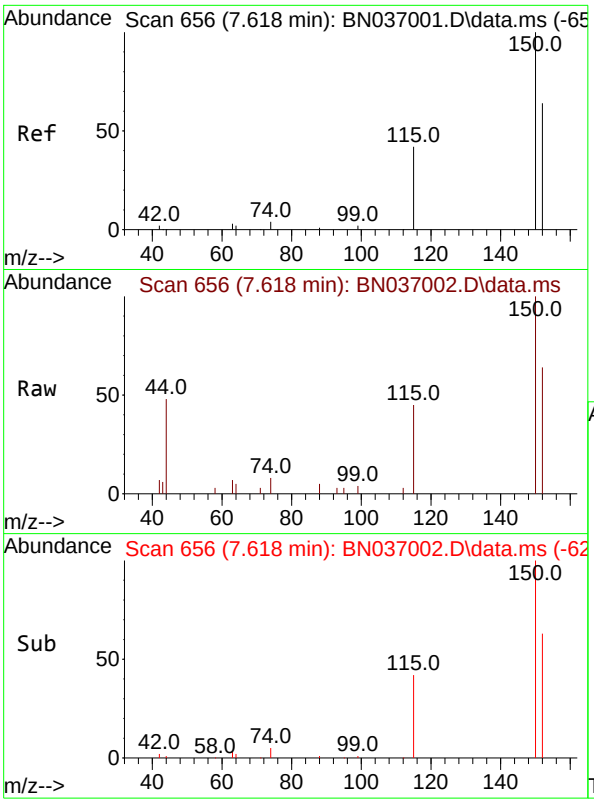
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037002.D
Acq On : 13 May 2025 19:29
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: May 14 11:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



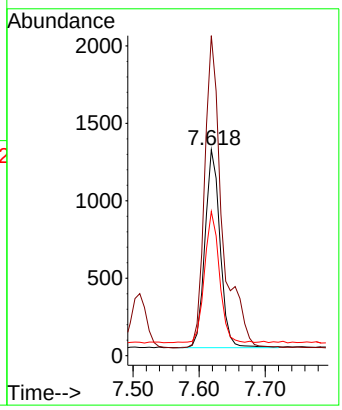


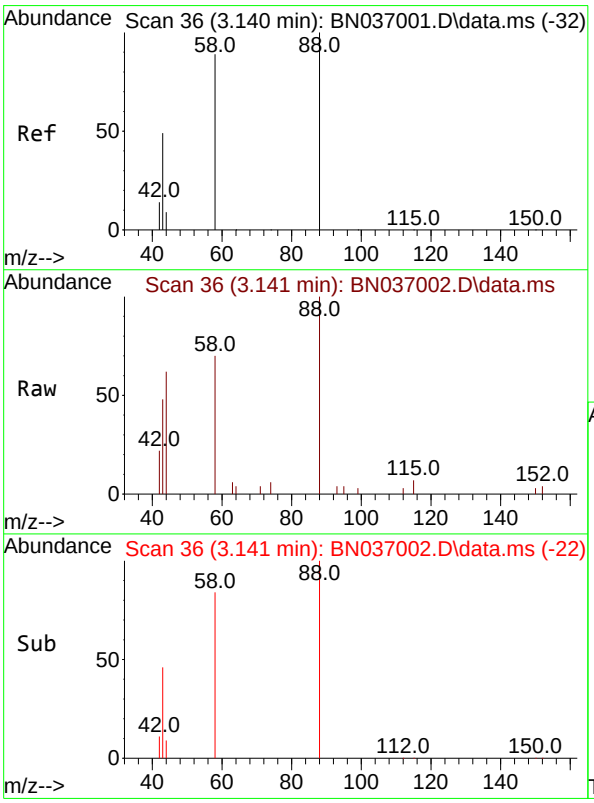
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2018

Ion	Ratio	Lower	Upper
152	100		
150	155.3	123.9	185.9
115	70.0	55.8	83.8

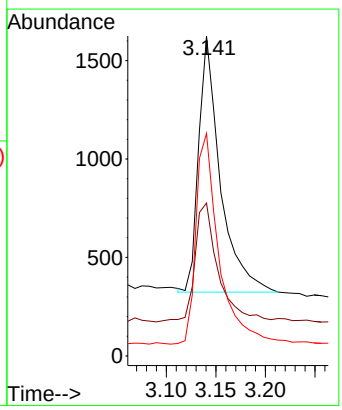


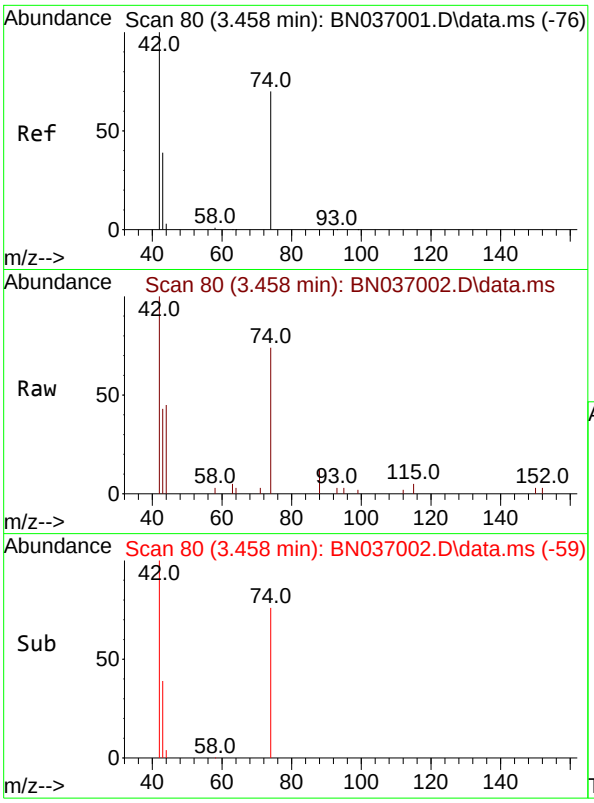


#2
1,4-Dioxane
Concen: 0.794 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 88 Resp: 1965

Ion	Ratio	Lower	Upper
88	100		
43	50.3	37.4	56.0
58	87.7	68.8	103.2



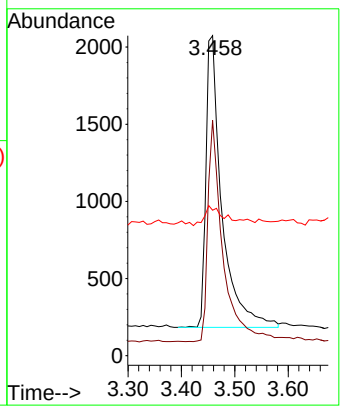


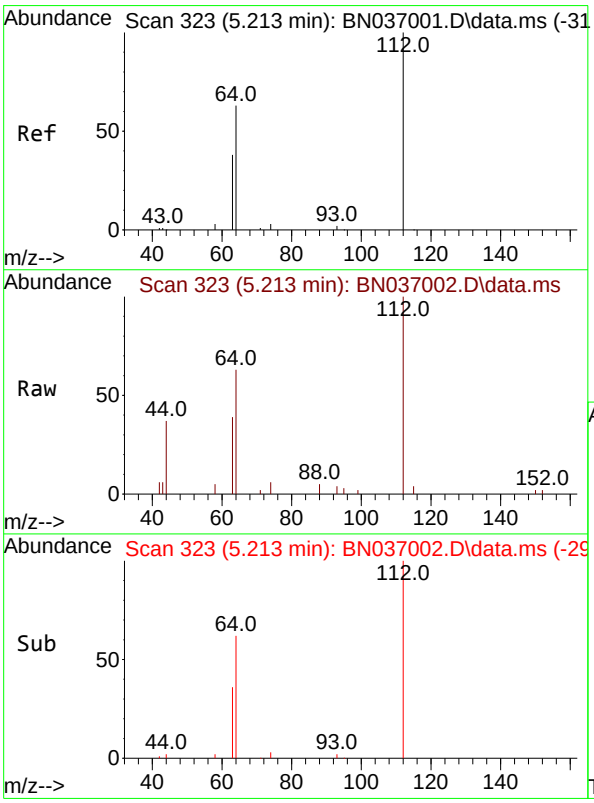
#3
n-Nitrosodimethylamine
Concen: 0.737 ng
RT: 3.458 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 3920

Ion	Ratio	Lower	Upper
42	100		
74	71.0	59.8	89.6
44	7.7	11.9	17.9#

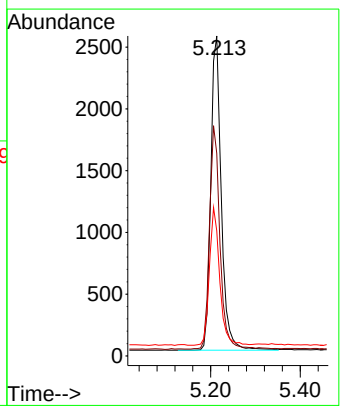


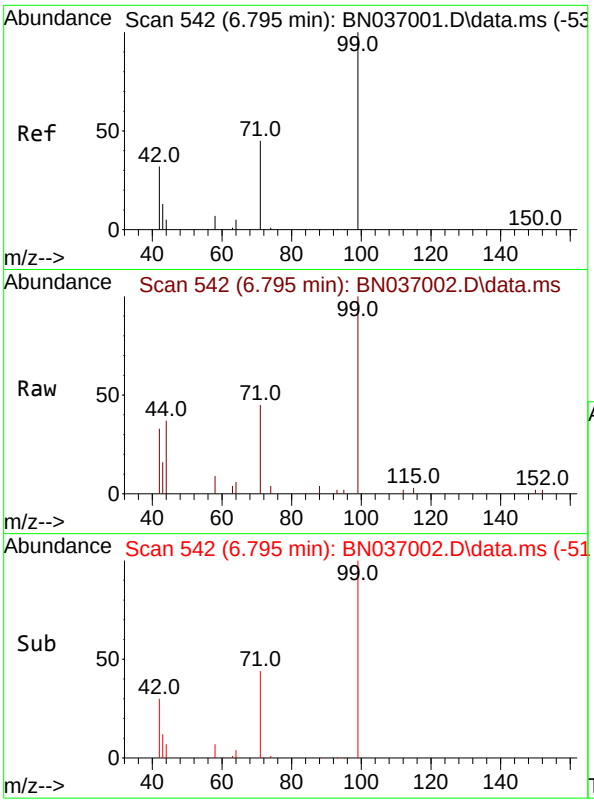


#4
2-Fluorophenol
Concen: 0.782 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:112 Resp: 4133

Ion	Ratio	Lower	Upper
112	100		
64	70.4	55.7	83.5
63	42.7	34.6	51.8



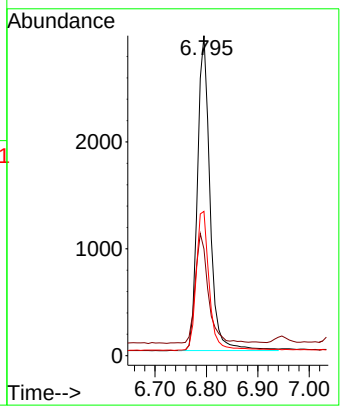


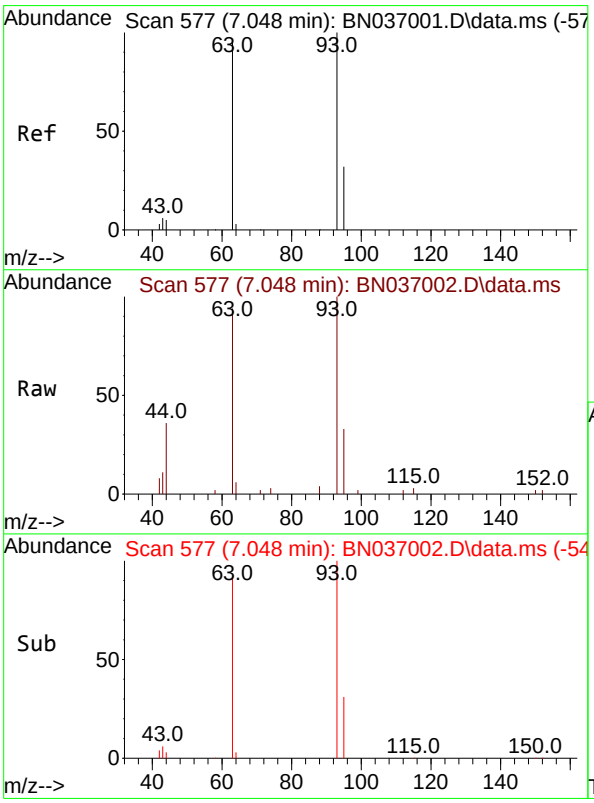
#5
Phenol-d6
Concen: 0.754 ng
RT: 6.795 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 4989

Ion	Ratio	Lower	Upper
99	100		
42	36.4	29.3	43.9
71	46.4	35.7	53.5

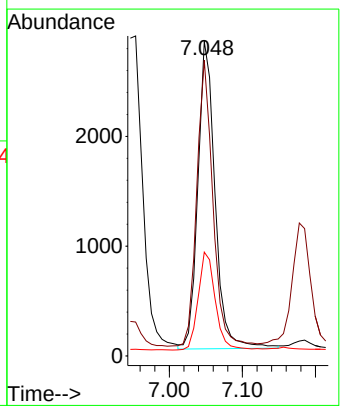


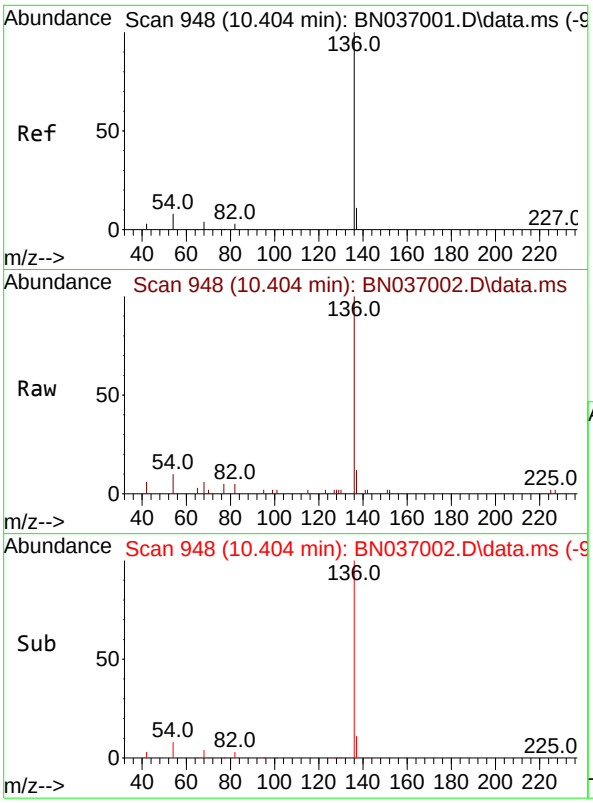


#6
bis(2-Chloroethyl)ether
Concen: 0.752 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 93 Resp: 4579

Ion	Ratio	Lower	Upper
93	100		
63	87.2	70.1	105.1
95	32.0	26.2	39.2



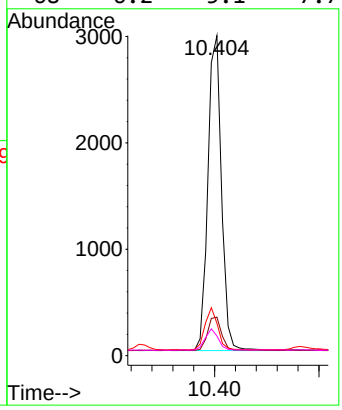


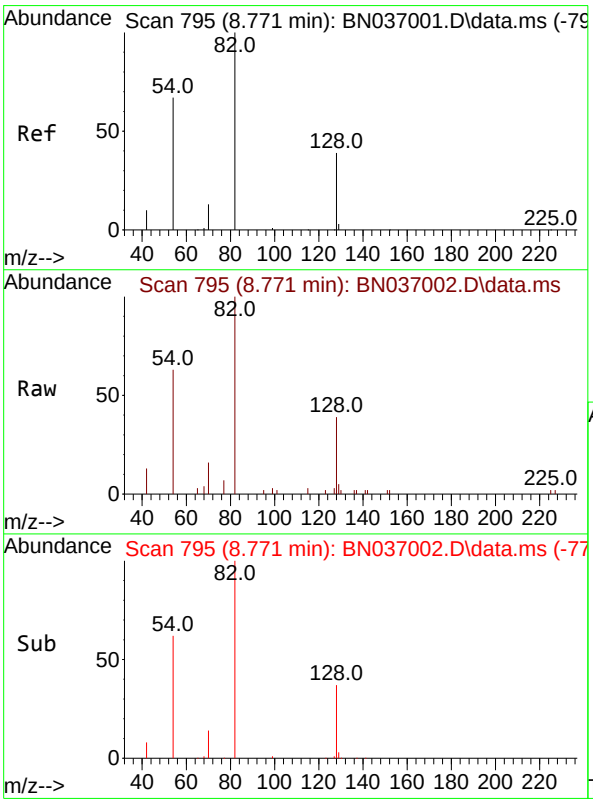
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5326

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.4	15.6
54	10.1	8.5	12.7
68	6.2	5.1	7.7

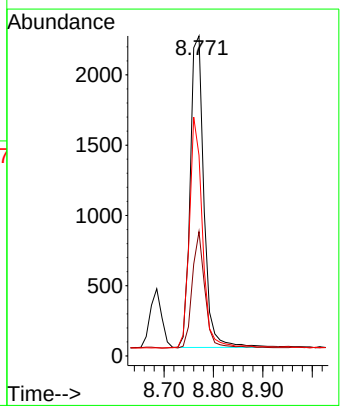


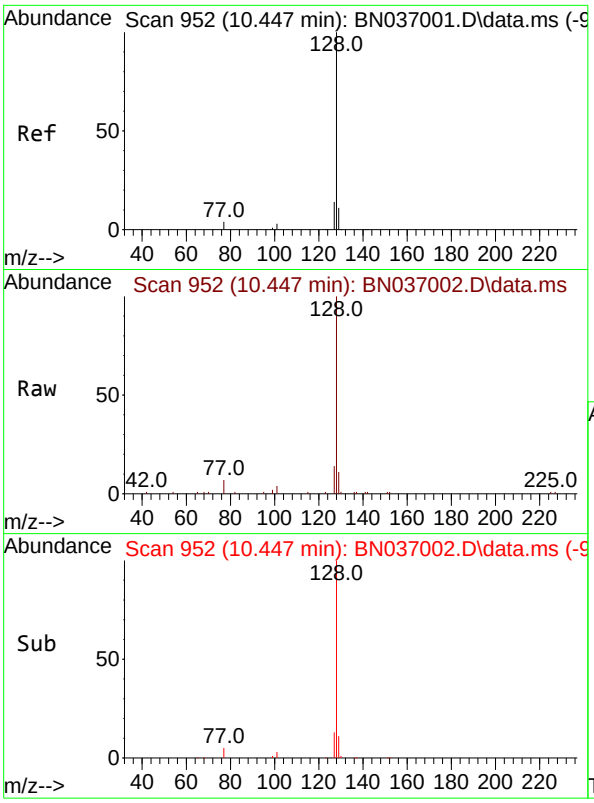


#8
Nitrobenzene-d5
Concen: 0.736 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 82 Resp: 4266

Ion	Ratio	Lower	Upper
82	100		
128	38.9	34.0	51.0
54	62.7	55.0	82.4



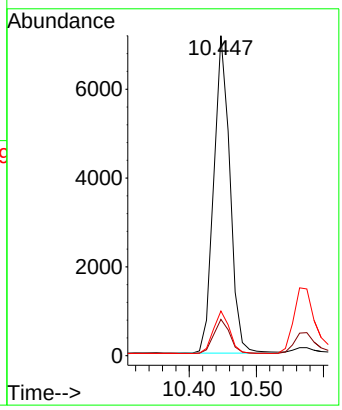


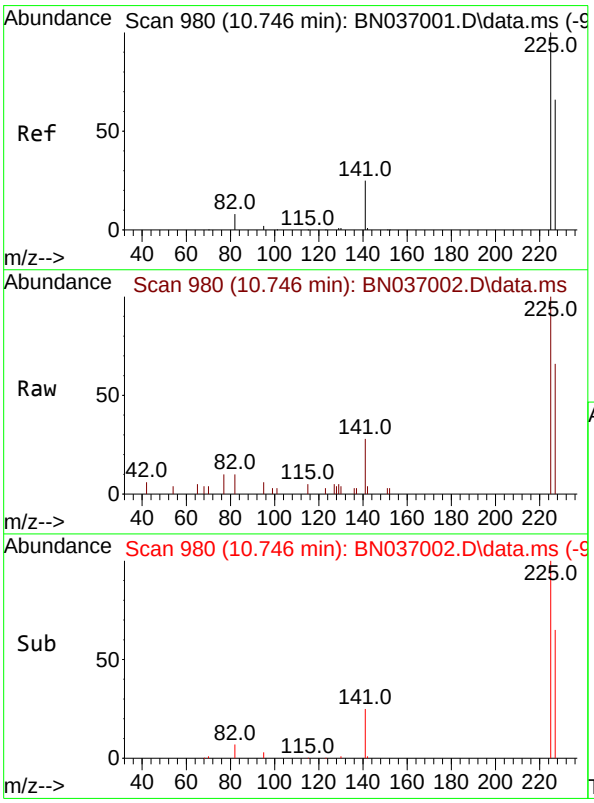
#9
Naphthalene
Concen: 0.759 ng
RT: 10.447 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 11949

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.7	14.5
127	14.0	12.4	18.6

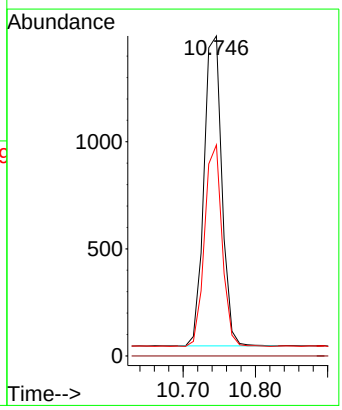


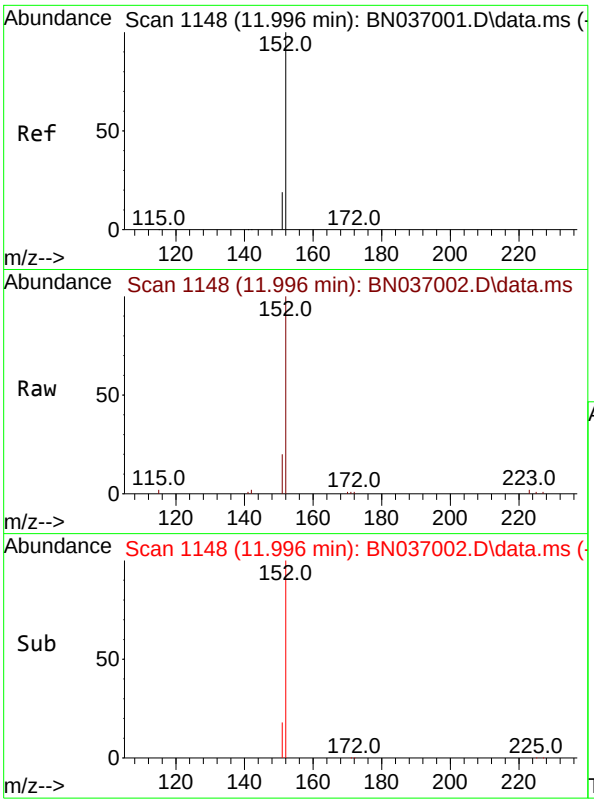


#10
Hexachlorobutadiene
Concen: 0.757 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:225 Resp: 2502

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.9	76.3



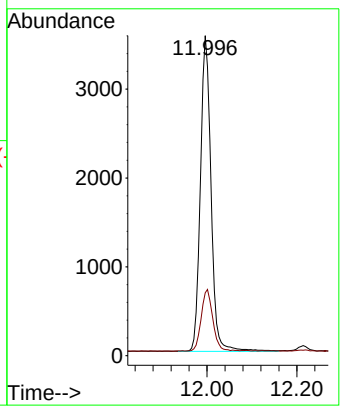


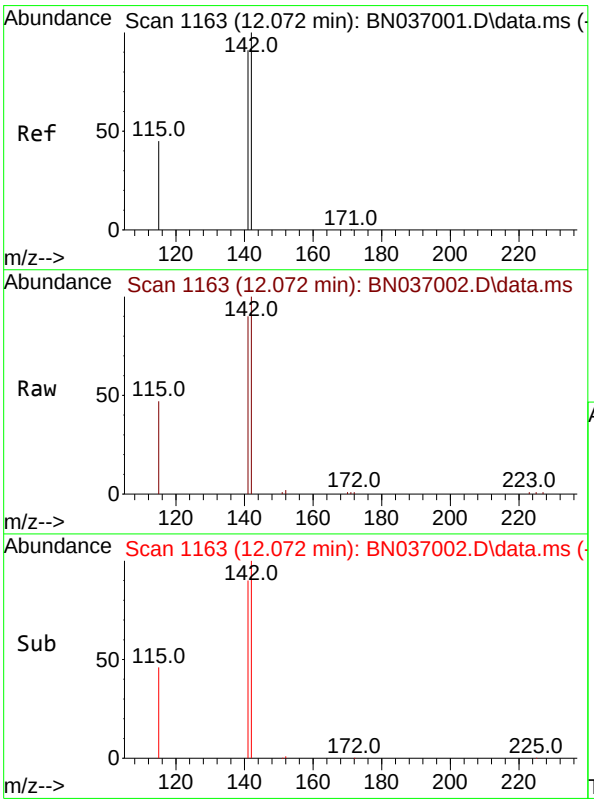
#11
2-Methylnaphthalene-d10
Concen: 0.778 ng
RT: 11.996 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 5833

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.5	26.3

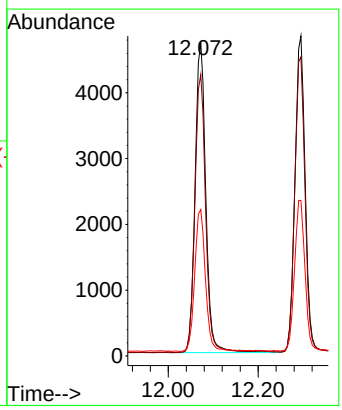


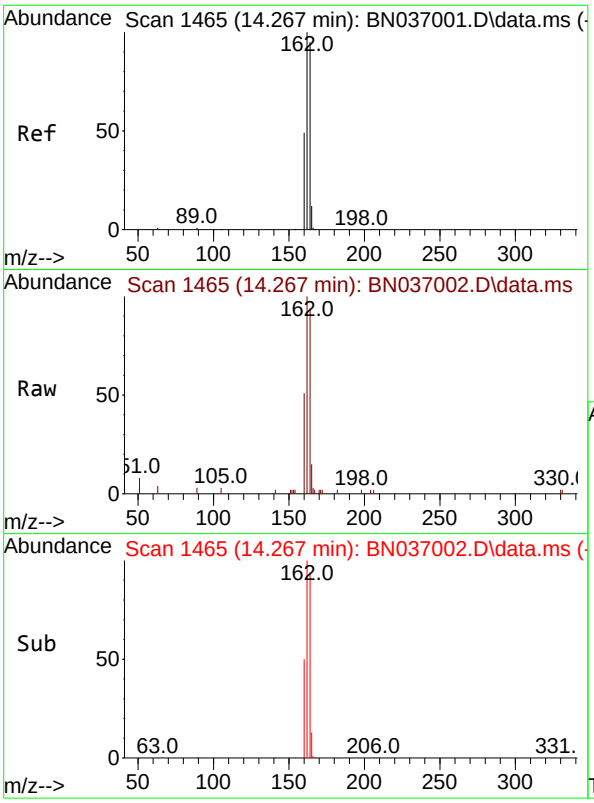


#12
2-Methylnaphthalene
Concen: 0.771 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:142 Resp: 7803

Ion	Ratio	Lower	Upper
142	100		
141	89.7	73.3	109.9
115	46.7	38.4	57.6



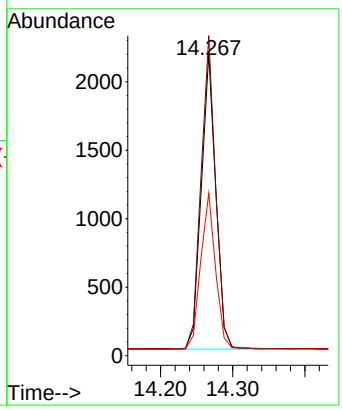


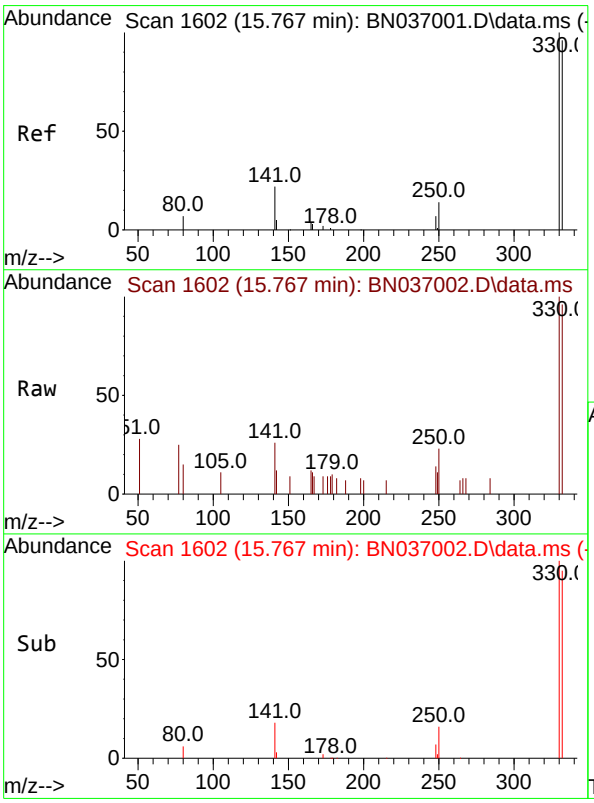
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3047

Ion	Ratio	Lower	Upper
164	100		
162	105.9	84.2	126.4
160	53.8	42.6	63.8

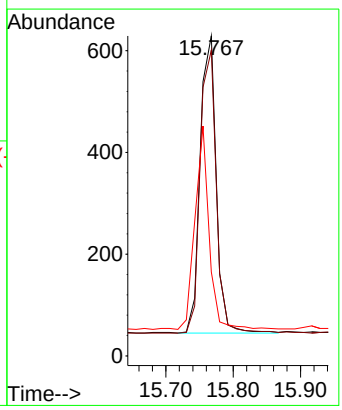


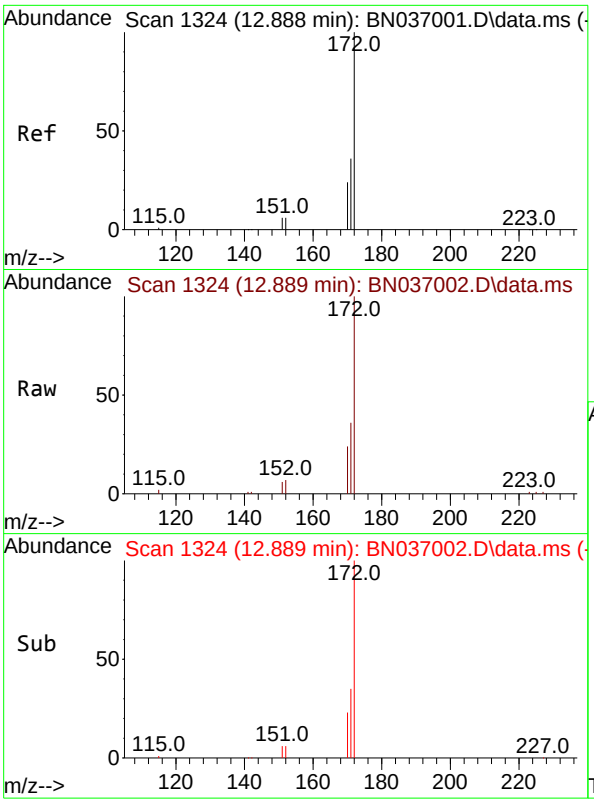


#14
2,4,6-Tribromophenol
Concen: 0.726 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:330 Resp: 972

Ion	Ratio	Lower	Upper
330	100		
332	96.1	73.8	110.8
141	60.8	43.9	65.9



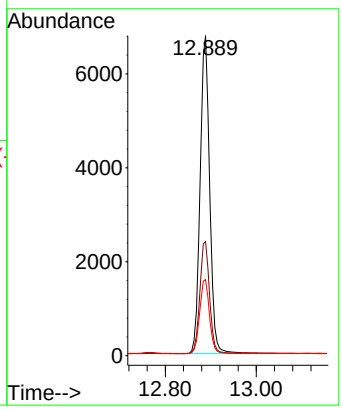


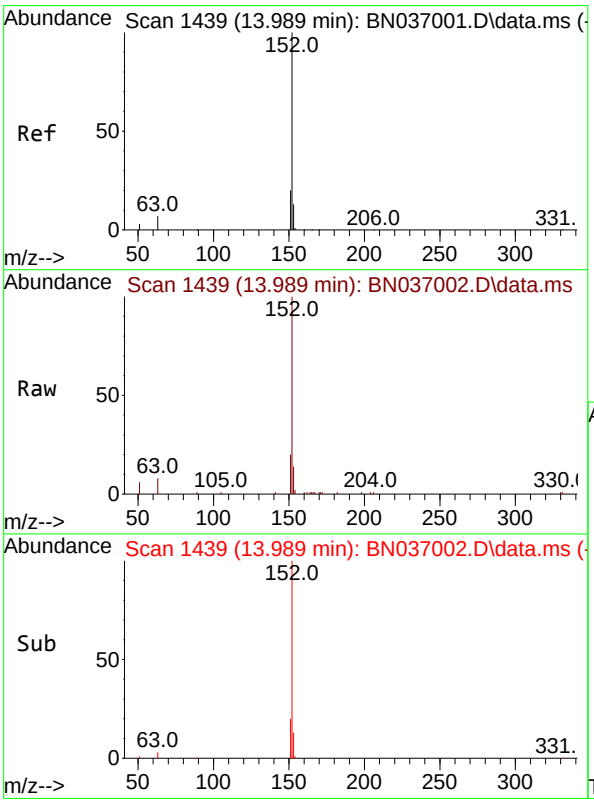
#15
2-Fluorobiphenyl
Concen: 0.787 ng
RT: 12.889 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 10981

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.2	43.8
170	23.8	20.5	30.7

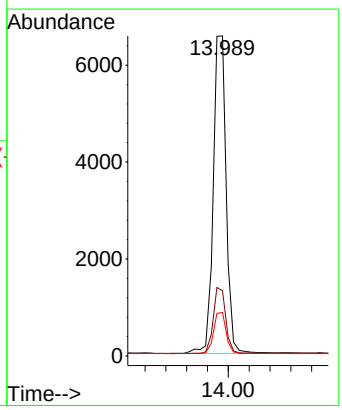


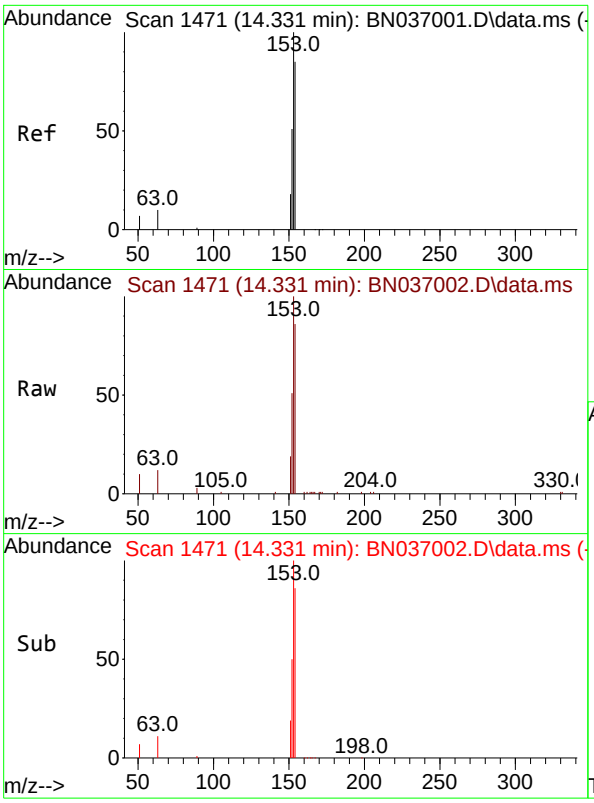


#16
Acenaphthylene
Concen: 0.760 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:152 Resp: 11268

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	12.8	10.5	15.7



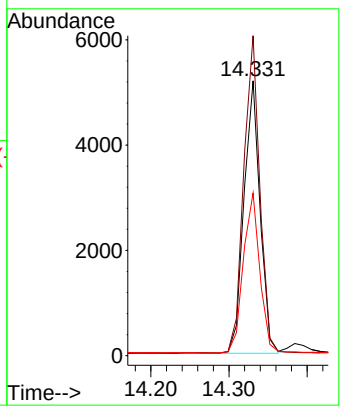


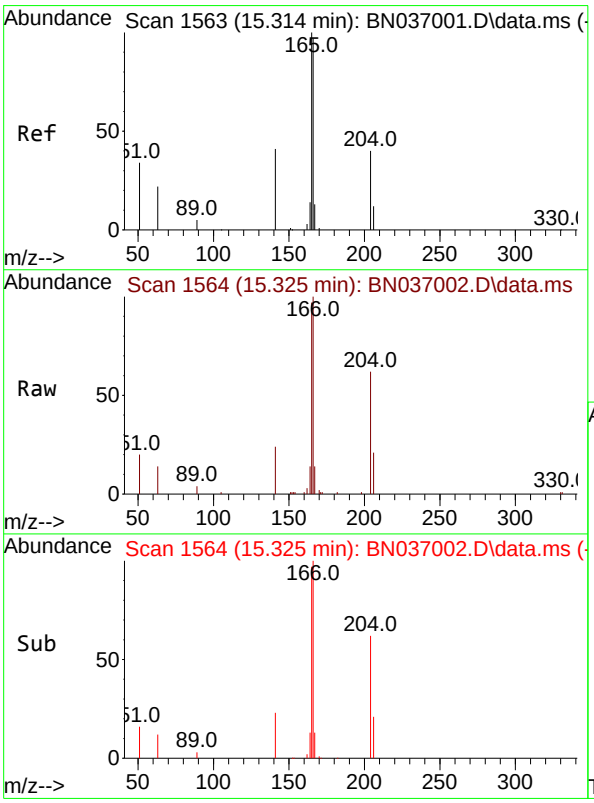
#17
Acenaphthene
Concen: 0.765 ng
RT: 14.331 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 7416

Ion	Ratio	Lower	Upper
154	100		
153	116.5	94.2	141.4
152	60.4	49.4	74.0

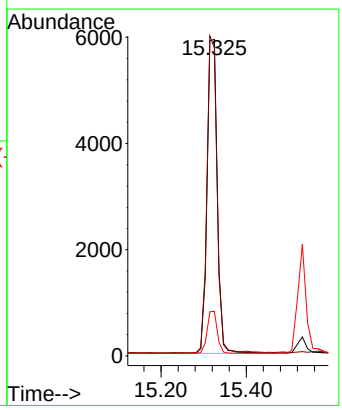


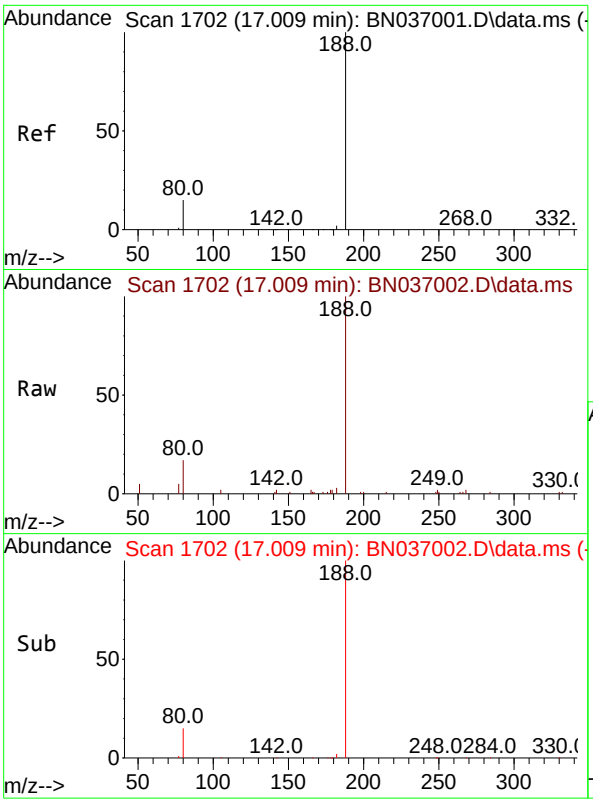


#18
Fluorene
Concen: 0.772 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:166 Resp: 9818

Ion	Ratio	Lower	Upper
166	100		
165	99.4	80.6	120.8
167	13.4	10.6	16.0



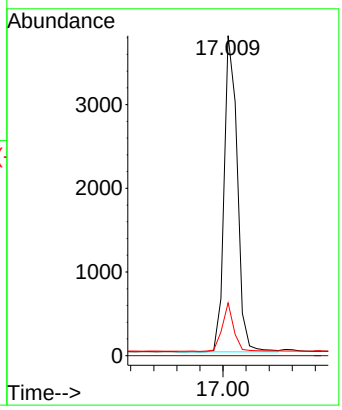


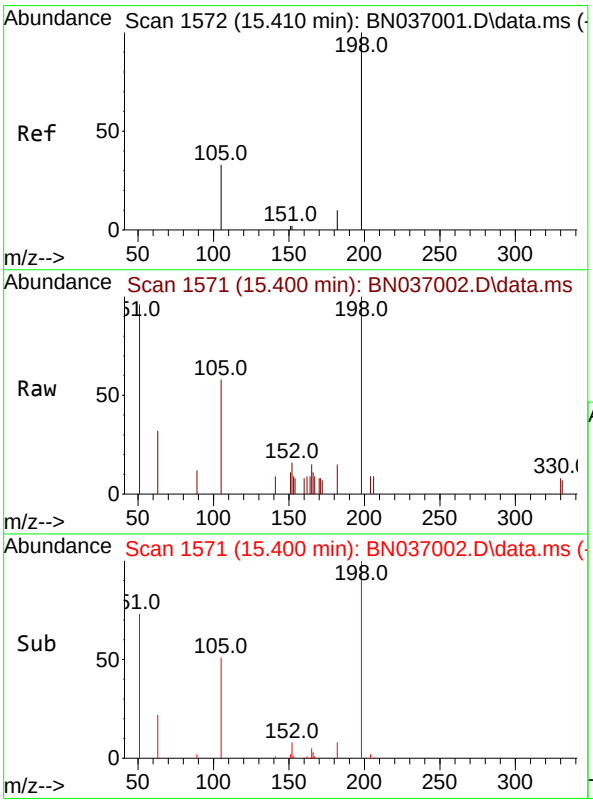
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 5996

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.5	13.4	20.0

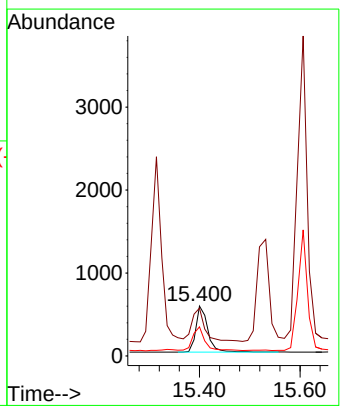


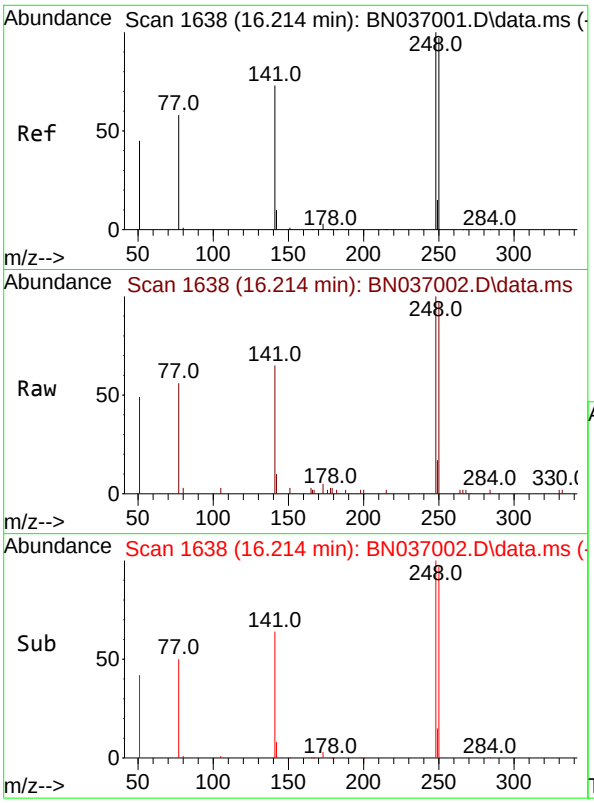


#20
4,6-Dinitro-2-methylphenol
Concen: 0.760 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:198 Resp: 946

Ion	Ratio	Lower	Upper
198	100		
51	95.8	87.8	131.6
105	58.4	44.2	66.4



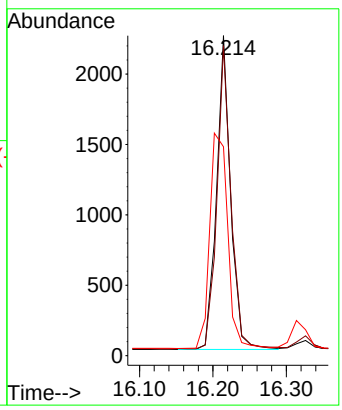


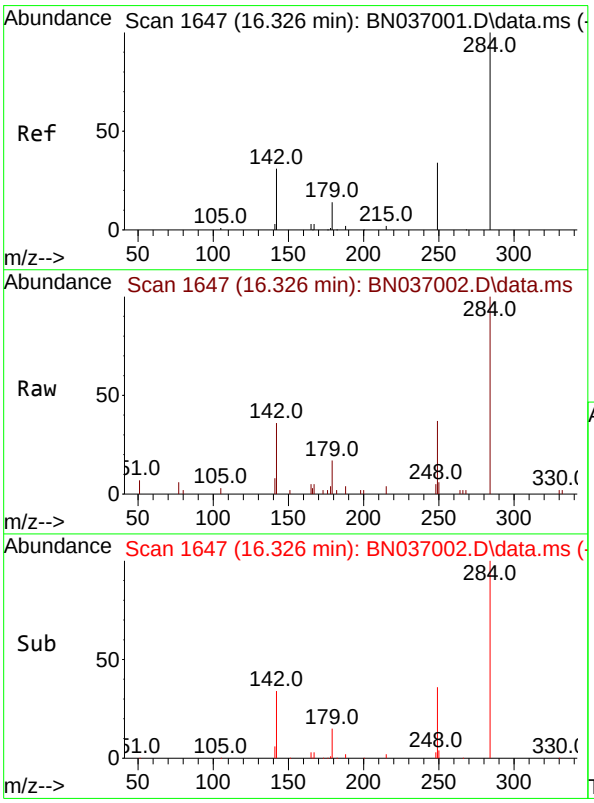
#21
4-Bromophenyl-phenylether
Concen: 0.782 ng
RT: 16.214 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 2963

Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.1	117.1
141	65.3	59.7	89.5

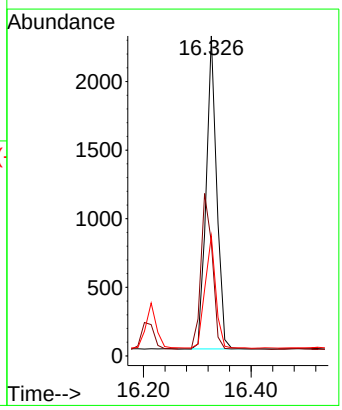


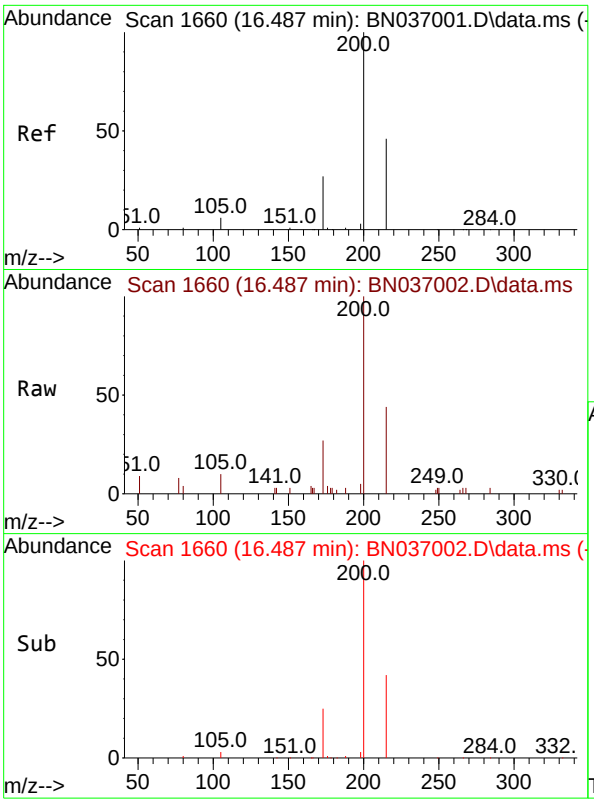


#22
Hexachlorobenzene
Concen: 0.766 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:284 Resp: 3104

Ion	Ratio	Lower	Upper
284	100		
142	54.2	41.2	61.8
249	36.8	28.7	43.1



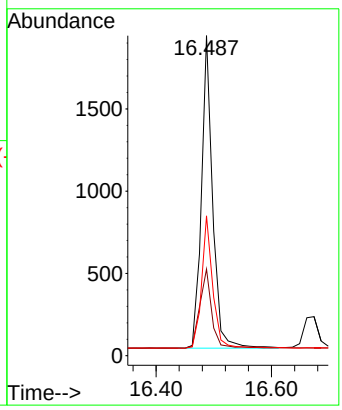


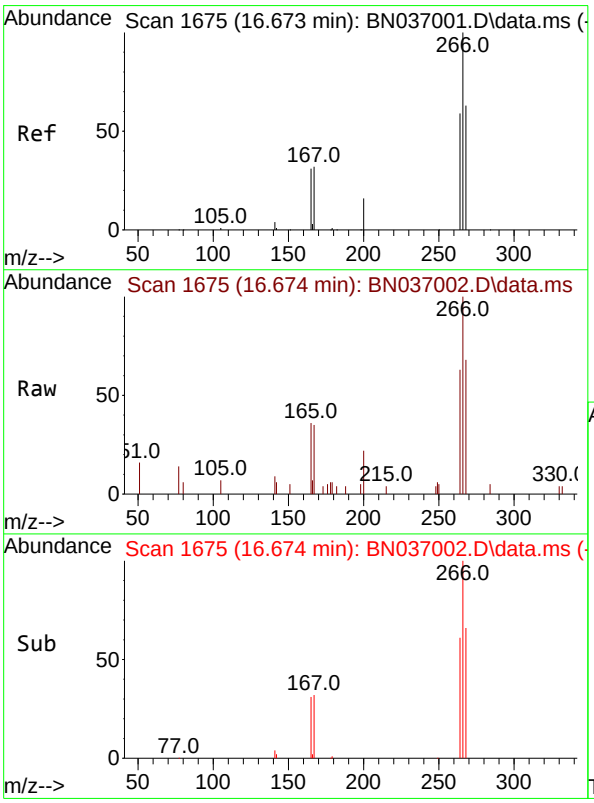
#23
Atrazine
Concen: 0.775 ng
RT: 16.487 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2560

Ion	Ratio	Lower	Upper
200	100		
173	27.0	25.2	37.8
215	43.7	39.3	58.9

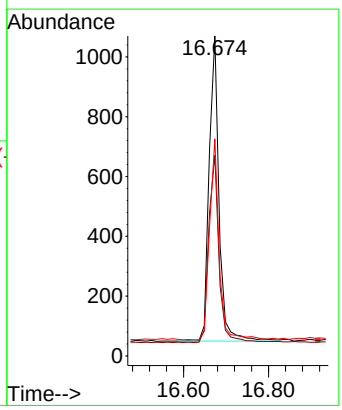


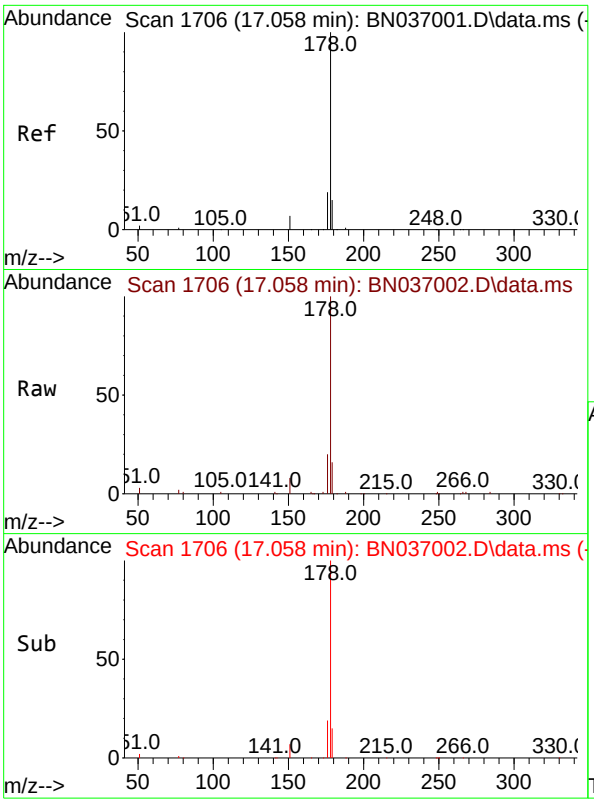


#24
Pentachlorophenol
Concen: 0.730 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:266 Resp: 1644

Ion	Ratio	Lower	Upper
266	100		
264	63.6	47.9	71.9
268	63.6	50.0	75.0



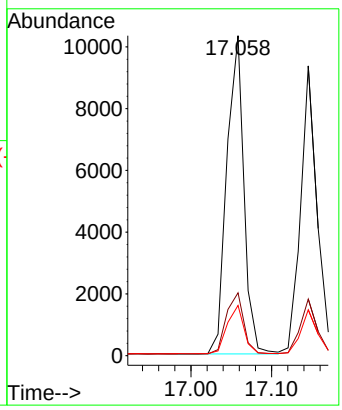


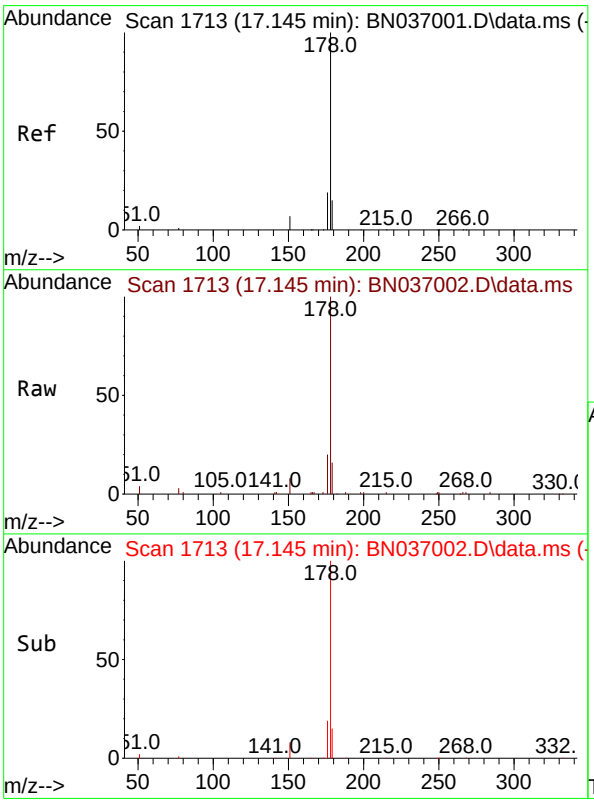
#25
Phenanthrene
Concen: 0.773 ng
RT: 17.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 15146

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.2	12.2	18.2

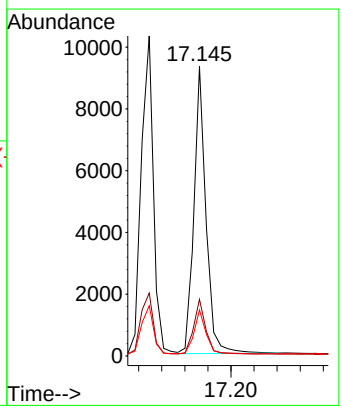


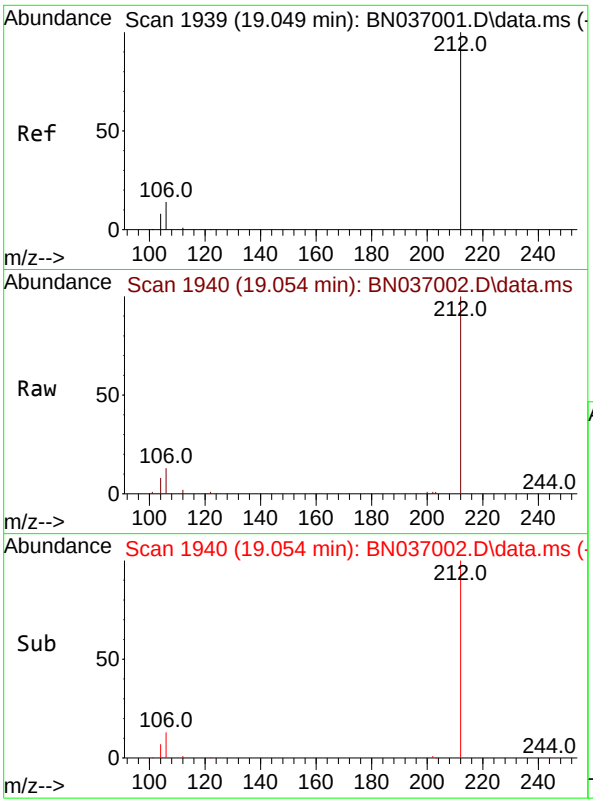


#26
Anthracene
Concen: 0.760 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:178 Resp: 13548

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.0	22.6
179	15.1	12.3	18.5



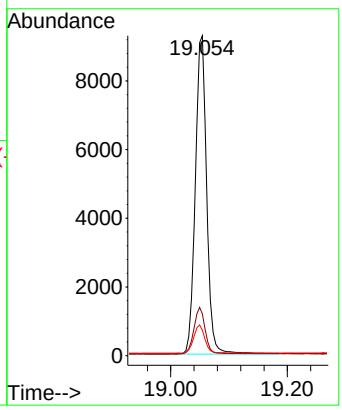


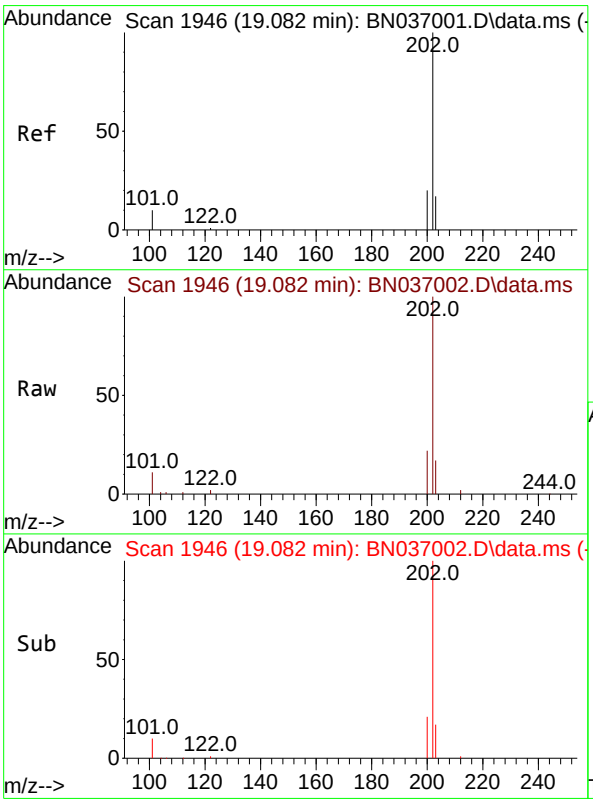
#27
Fluoranthene-d10
Concen: 0.760 ng
RT: 19.054 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 12492

Ion	Ratio	Lower	Upper
212	100		
106	14.4	11.3	16.9
104	8.7	6.7	10.1

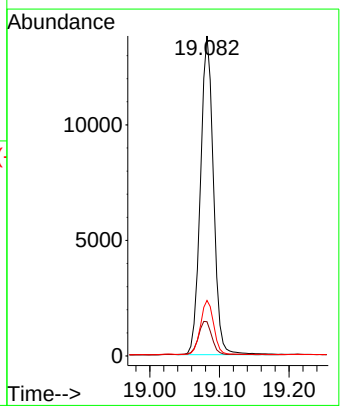


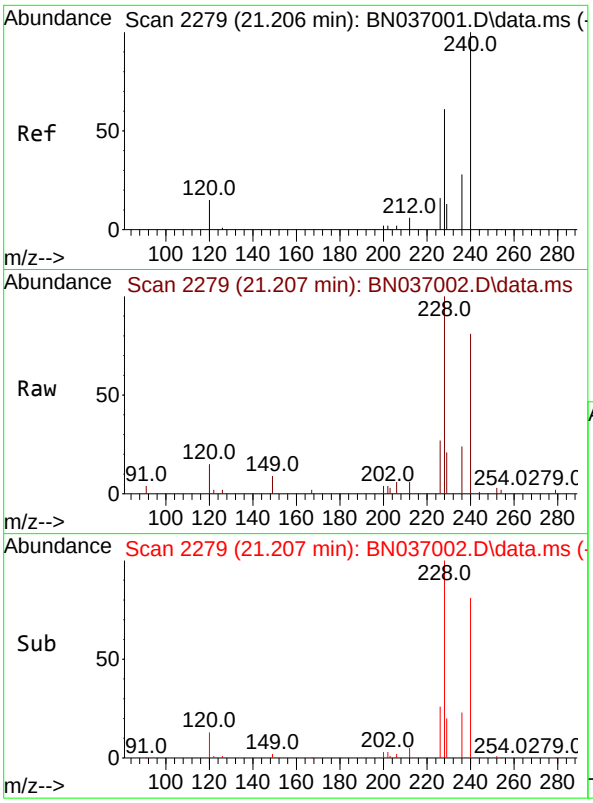


#28
Fluoranthene
Concen: 0.766 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:202 Resp: 17938

Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.9	13.3
203	17.2	13.8	20.8



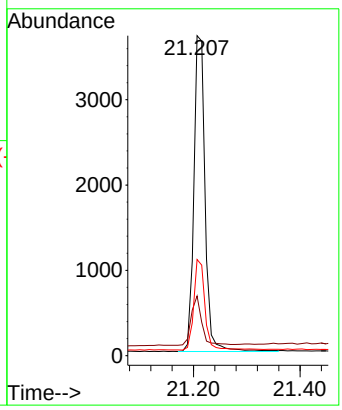


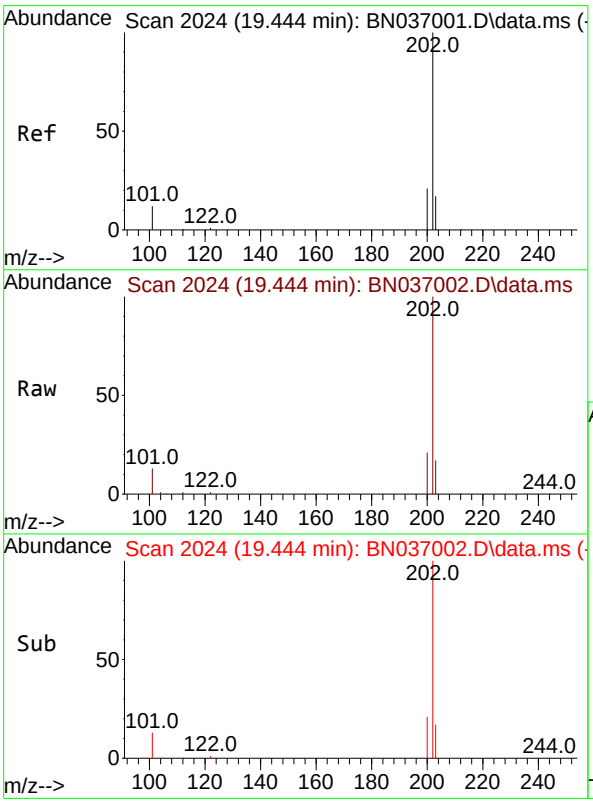
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 5456

Ion	Ratio	Lower	Upper
240	100		
120	18.6	15.1	22.7
236	30.0	24.0	36.0

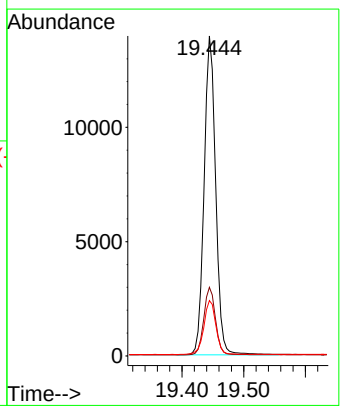


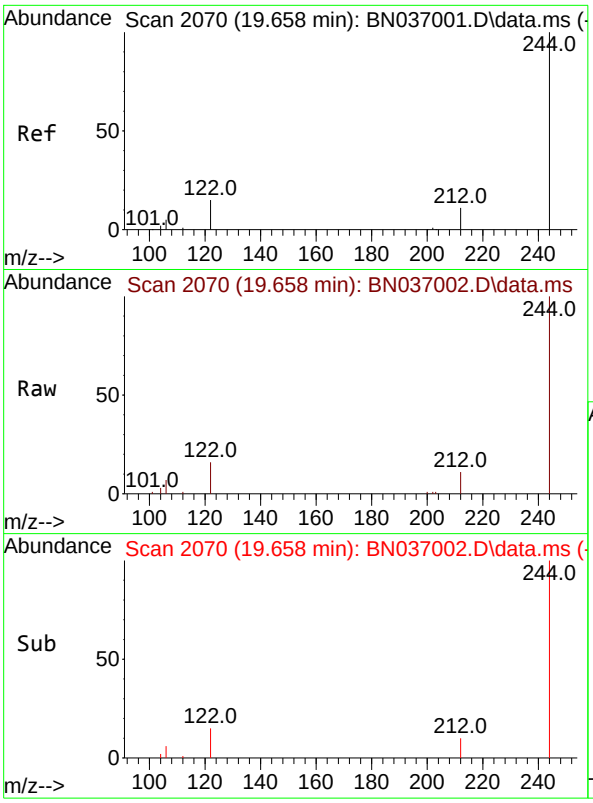


#30
Pyrene
Concen: 0.774 ng
RT: 19.444 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:202 Resp: 18075

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.6	14.2	21.4



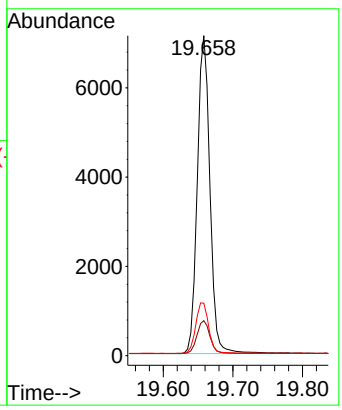


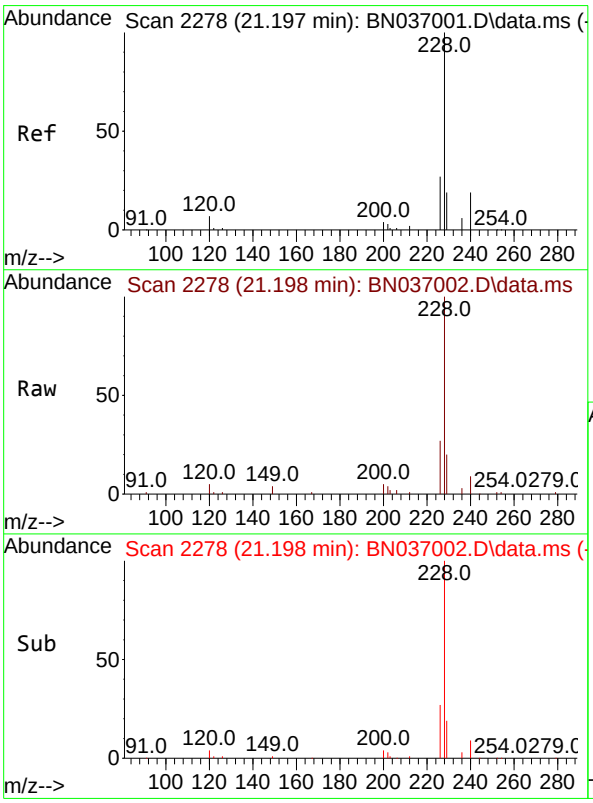
#31
Terphenyl-d14
Concen: 0.769 ng
RT: 19.658 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 8975

Ion	Ratio	Lower	Upper
244	100		
212	11.0	9.7	14.5
122	16.4	13.4	20.0

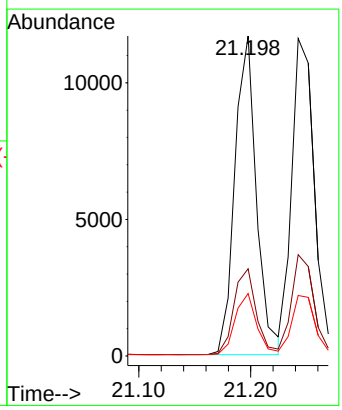


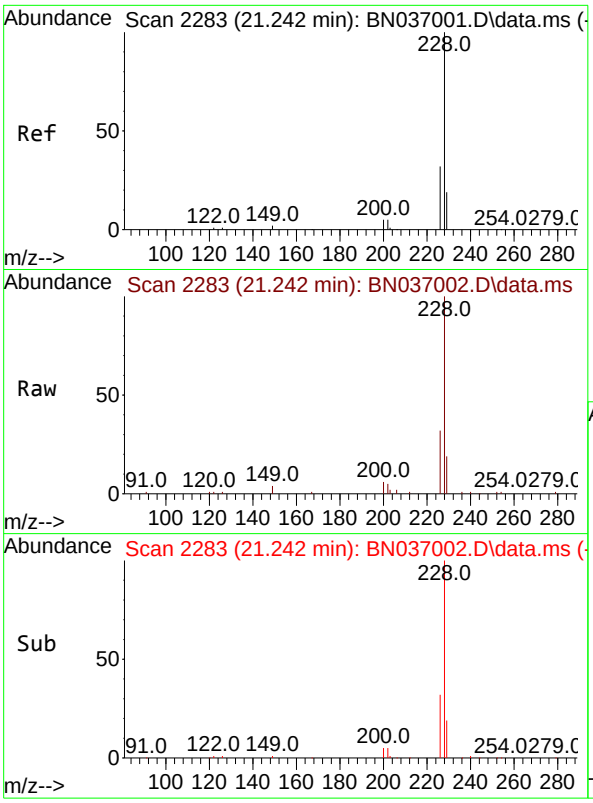


#32
Benzo(a)anthracene
Concen: 0.764 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:228 Resp: 15689

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.4
229	19.5	16.0	24.0



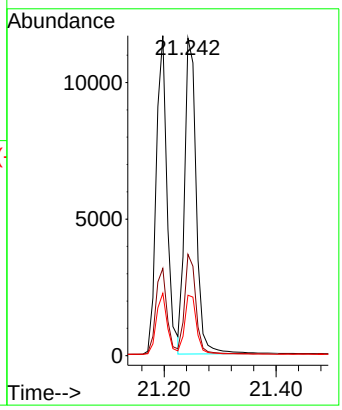


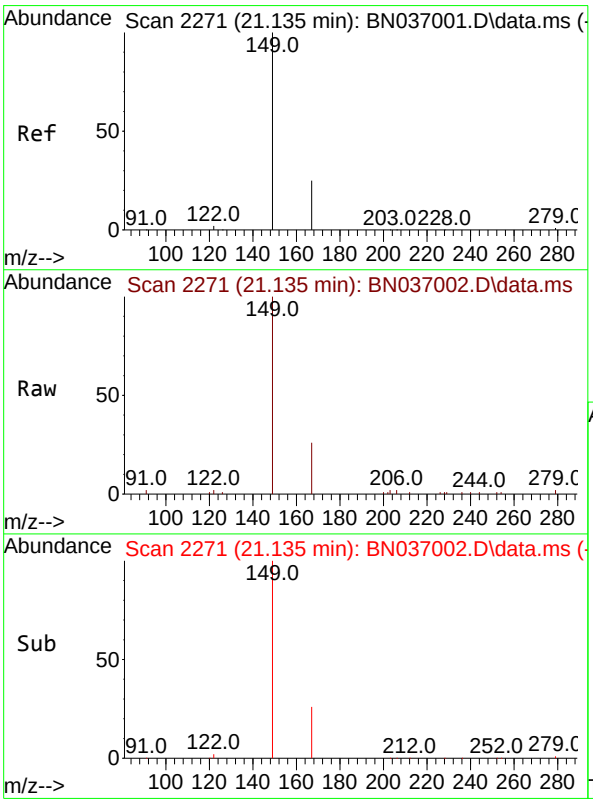
#33
Chrysene
Concen: 0.769 ng
RT: 21.242 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 16717

Ion	Ratio	Lower	Upper
228	100		
226	31.9	26.3	39.5
229	19.1	16.2	24.2

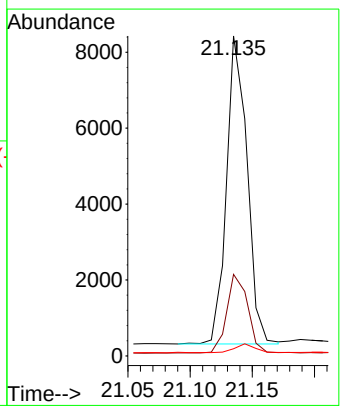


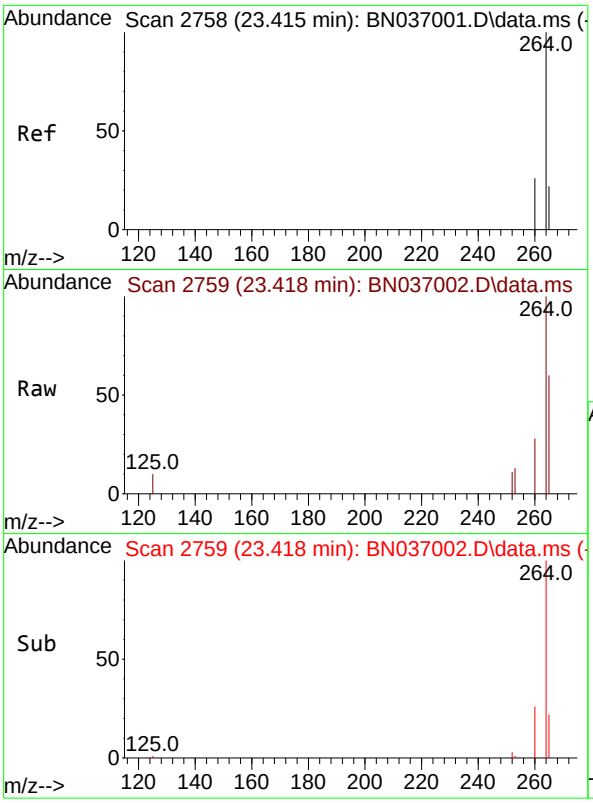


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.737 ng
RT: 21.135 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:149 Resp: 9326

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.6	30.8
279	2.8	2.6	3.8



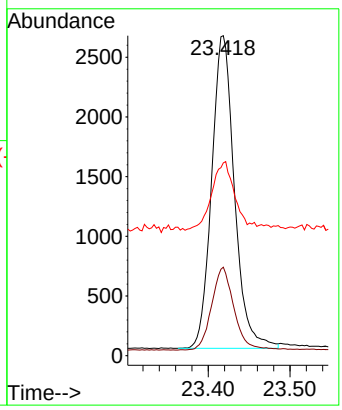


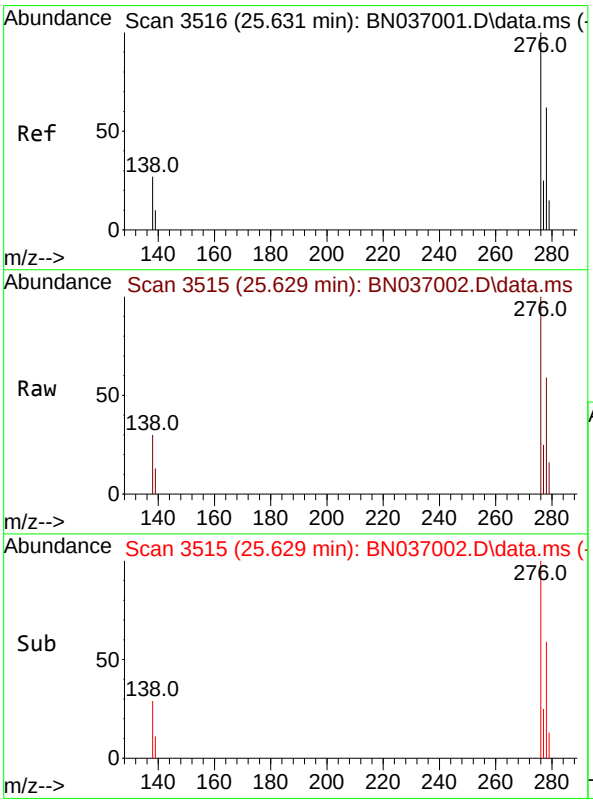
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.418 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 5077

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.9	32.9
265	60.3	51.6	77.4

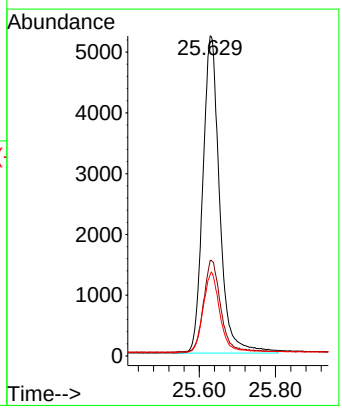


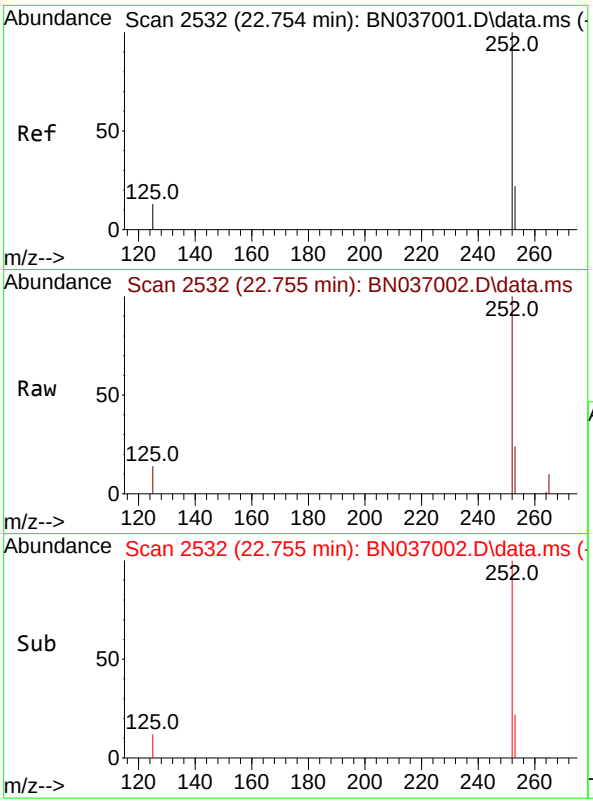


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.768 ng
RT: 25.629 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:276 Resp: 15921

Ion	Ratio	Lower	Upper
276	100		
138	29.0	22.7	34.1
277	24.9	20.0	30.0



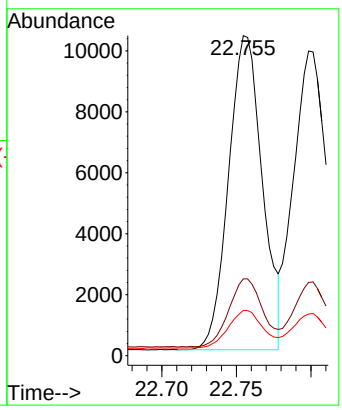


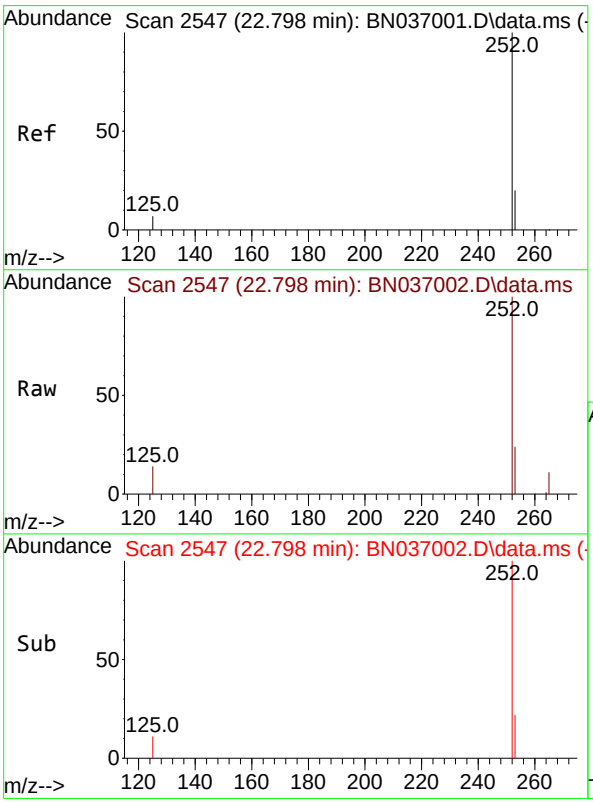
#37
Benzo(b)fluoranthene
Concen: 0.772 ng
RT: 22.755 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 16240

Ion	Ratio	Lower	Upper
252	100		
253	24.0	21.8	32.6
125	14.2	14.6	21.8#

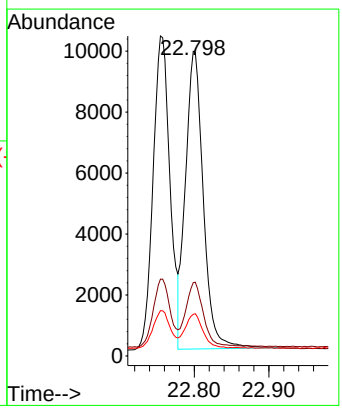


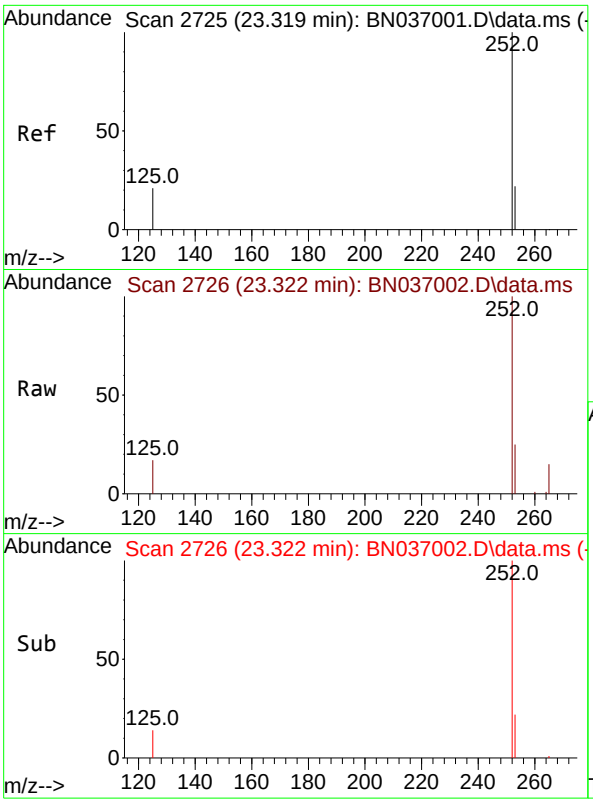


#38
Benzo(k)fluoranthene
Concen: 0.782 ng
RT: 22.798 min Scan# 2547
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:252 Resp: 16259

Ion	Ratio	Lower	Upper
252	100		
253	24.0	21.4	32.2
125	13.7	13.0	19.4



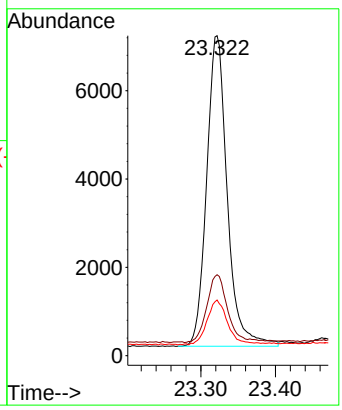


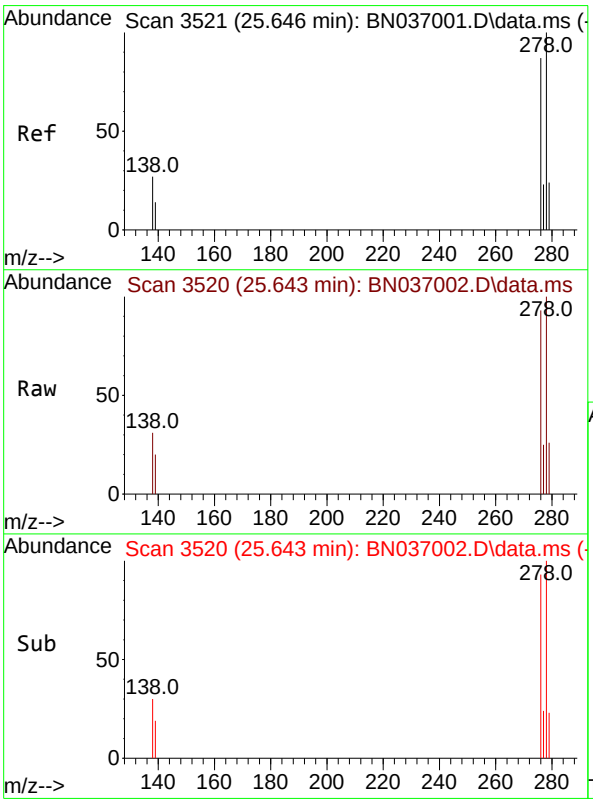
#39
Benzo(a)pyrene
Concen: 0.757 ng
RT: 23.322 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 13516

Ion	Ratio	Lower	Upper
252	100		
253	25.3	23.8	35.6
125	17.4	21.8	32.6#

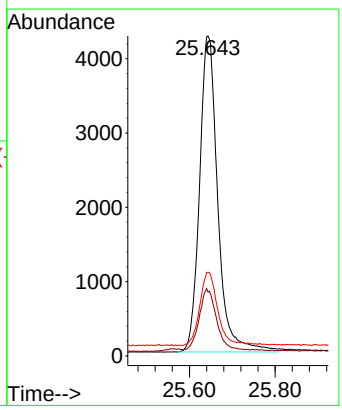


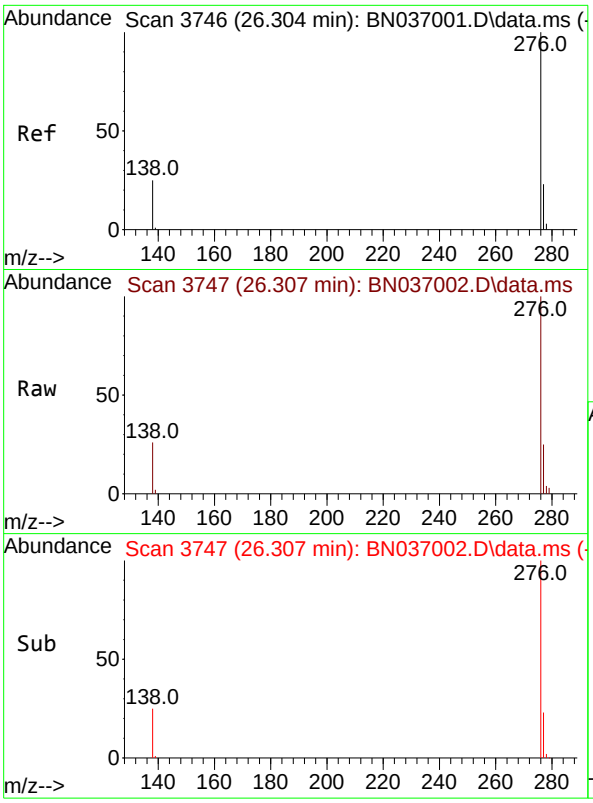


#40
Dibenzo(a,h)anthracene
Concen: 0.777 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:278 Resp: 12556

Ion	Ratio	Lower	Upper
278	100		
139	20.0	17.4	26.0
279	26.2	24.6	37.0



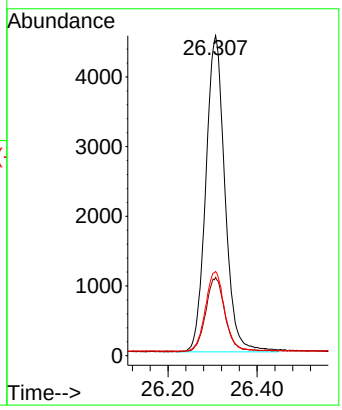


#41
Benzo(g,h,i)perylene
Concen: 0.769 ng
RT: 26.307 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 13503

Ion	Ratio	Lower	Upper
276	100		
277	24.5	20.2	30.4
138	26.3	22.0	33.0



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037003.D
Acq On : 13 May 2025 20:05
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: May 14 11:01:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

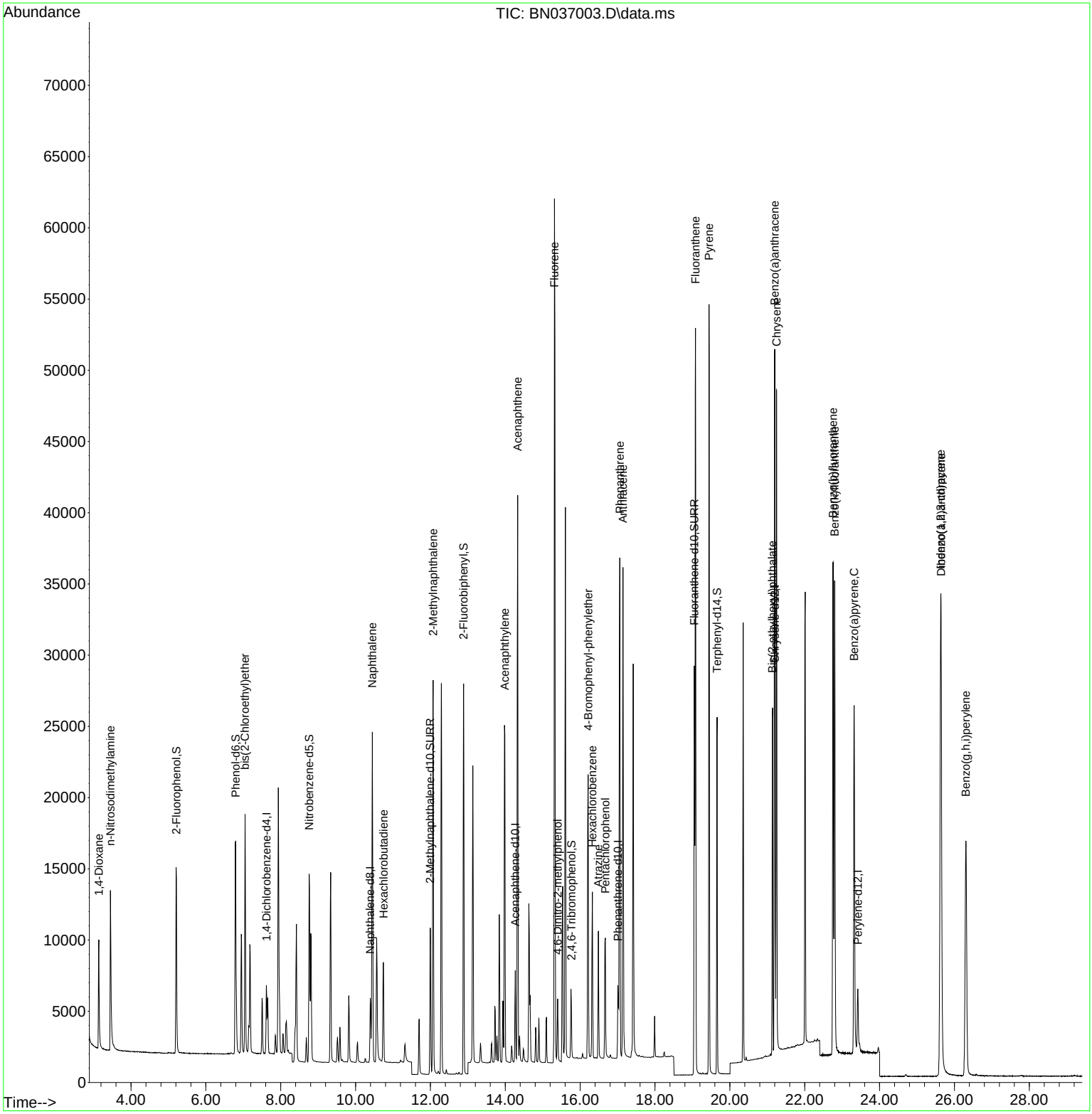
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	2134	0.400	ng		0.00
7) Naphthalene-d8	10.394	136	5654	0.400	ng		#-0.01
13) Acenaphthene-d10	14.267	164	3305	0.400	ng		0.00
19) Phenanthrene-d10	17.009	188	6678	0.400	ng		0.00
29) Chrysene-d12	21.207	240	6288	0.400	ng		0.00
35) Perylene-d12	23.418	264	5747	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.213	112	9332	1.669	ng		0.00
5) Phenol-d6	6.795	99	11879	1.698	ng		0.00
8) Nitrobenzene-d5	8.760	82	10231	1.662	ng		-0.01
11) 2-Methylnaphthalene-d10	11.996	152	13642	1.714	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	2461	1.695	ng		0.00
15) 2-Fluorobiphenyl	12.888	172	25480	1.684	ng		0.00
27) Fluoranthene-d10	19.054	212	30804	1.682	ng		0.00
31) Terphenyl-d14	19.658	244	22417	1.667	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.141	88	4389	1.676	ng		96
3) n-Nitrosodimethylamine	3.451	42	9172	1.630	ng	#	92
6) bis(2-Chloroethyl)ether	7.048	93	10588	1.645	ng		99
9) Naphthalene	10.447	128	27723	1.659	ng		97
10) Hexachlorobutadiene	10.746	225	5780	1.648	ng	#	99
12) 2-Methylnaphthalene	12.072	142	18399	1.712	ng		99
16) Acenaphthylene	13.989	152	27375	1.702	ng		100
17) Acenaphthene	14.331	154	17846	1.698	ng		98
18) Fluorene	15.314	166	23515	1.705	ng		100
20) 4,6-Dinitro-2-methylph...	15.400	198	2713	1.748	ng	#	73
21) 4-Bromophenyl-phenylether	16.214	248	7008	1.661	ng		94
22) Hexachlorobenzene	16.326	284	7515	1.664	ng		99
23) Atrazine	16.487	200	6336	1.722	ng		92
24) Pentachlorophenol	16.674	266	4256	1.697	ng		98
25) Phenanthrene	17.058	178	36506	1.673	ng		100
26) Anthracene	17.145	178	33908	1.707	ng		99
28) Fluoranthene	19.082	202	44613	1.711	ng		100
30) Pyrene	19.444	202	45015	1.674	ng		100
32) Benzo(a)anthracene	21.198	228	40103	1.694	ng		99
33) Chrysene	21.251	228	41576	1.660	ng		96
34) Bis(2-ethylhexyl)phtha...	21.135	149	23656	1.621	ng		99
36) Indeno(1,2,3-cd)pyrene	25.631	276	38771	1.652	ng		98
37) Benzo(b)fluoranthene	22.757	252	40209	1.688	ng	#	90
38) Benzo(k)fluoranthene	22.798	252	40699	1.729	ng	#	91
39) Benzo(a)pyrene	23.322	252	34149	1.689	ng	#	82
40) Dibenzo(a,h)anthracene	25.643	278	30810	1.685	ng	#	91
41) Benzo(g,h,i)perylene	26.307	276	32256	1.624	ng		97

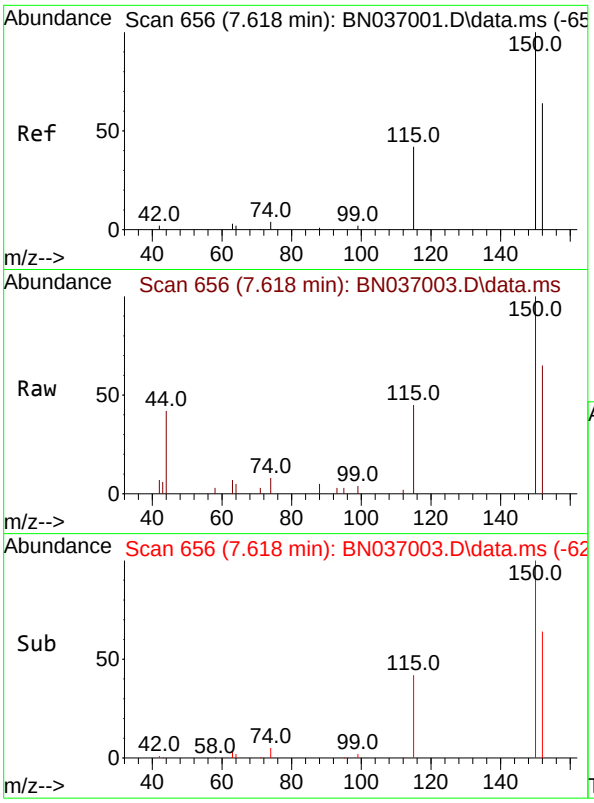
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037003.D
Acq On : 13 May 2025 20:05
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: May 14 11:01:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



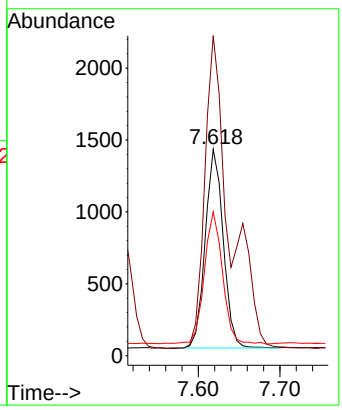


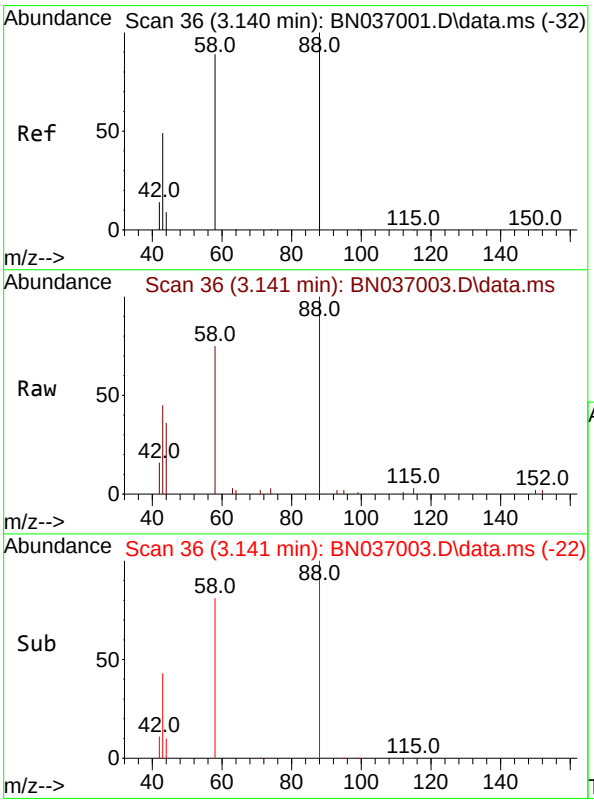
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2134

Ion	Ratio	Lower	Upper
152	100		
150	155.0	123.9	185.9
115	69.6	55.8	83.8

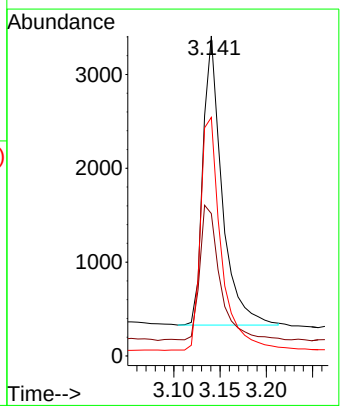


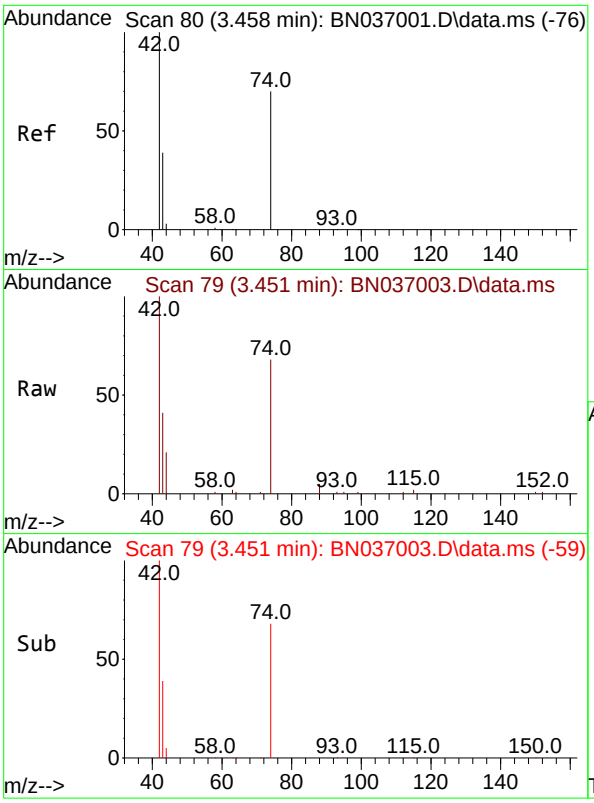


#2
1,4-Dioxane
Concen: 1.676 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 88 Resp: 4389

Ion	Ratio	Lower	Upper
88	100		
43	51.0	37.4	56.0
58	87.9	68.8	103.2



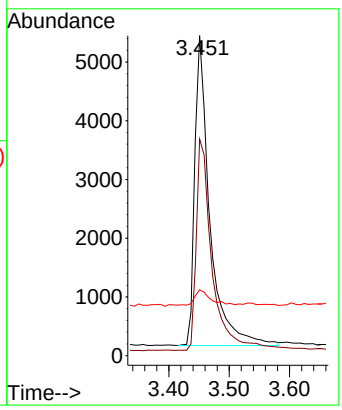


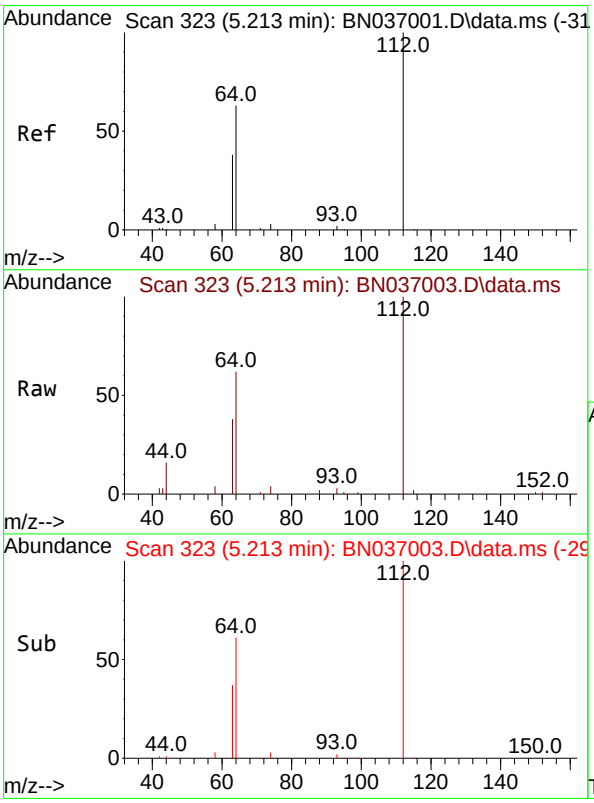
#3
n-Nitrosodimethylamine
Concen: 1.630 ng
RT: 3.451 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 9172

Ion	Ratio	Lower	Upper
42	100		
74	71.1	59.8	89.6
44	5.1	11.9	17.9#

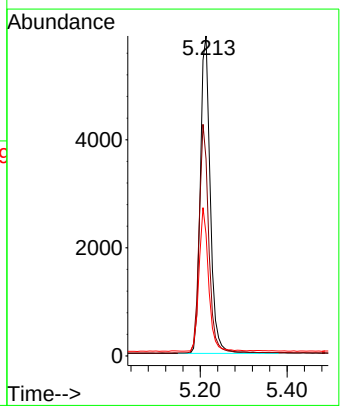


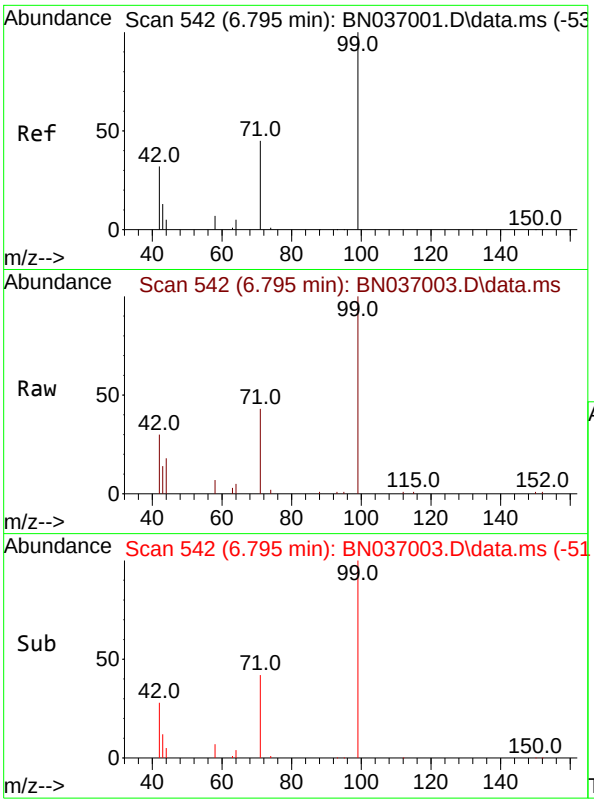


#4
2-Fluorophenol
Concen: 1.669 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:112 Resp: 9332

Ion	Ratio	Lower	Upper
112	100		
64	69.9	55.7	83.5
63	43.4	34.6	51.8



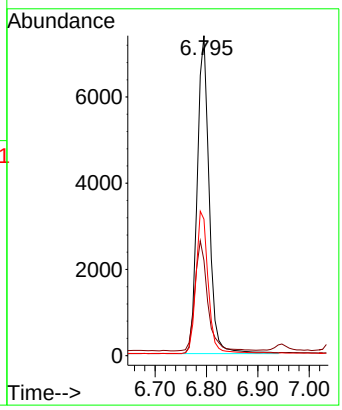


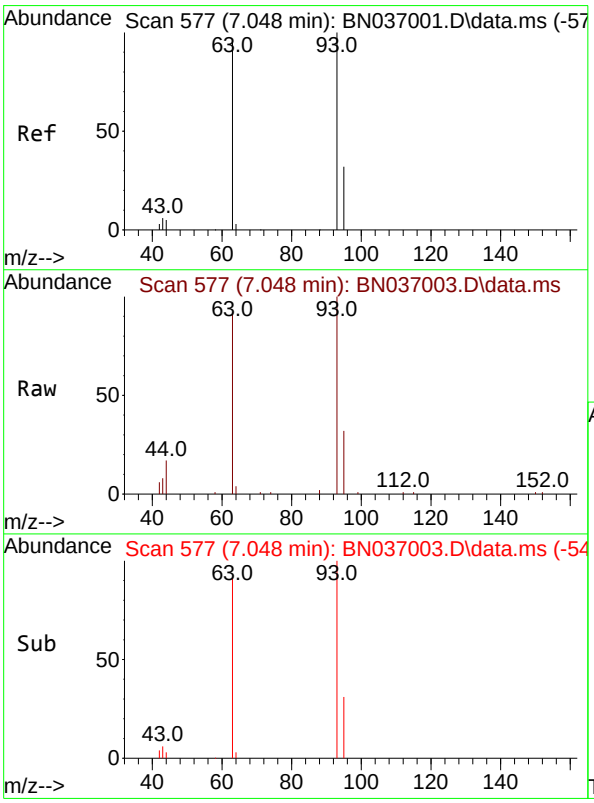
#5
Phenol-d6
Concen: 1.698 ng
RT: 6.795 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 11879

Ion	Ratio	Lower	Upper
99	100		
42	36.8	29.3	43.9
71	45.6	35.7	53.5

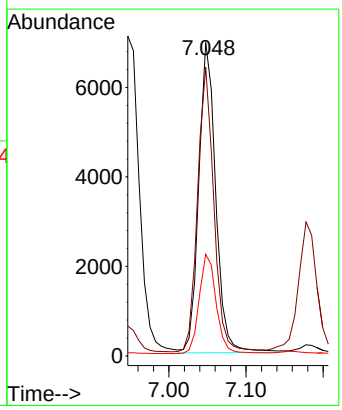


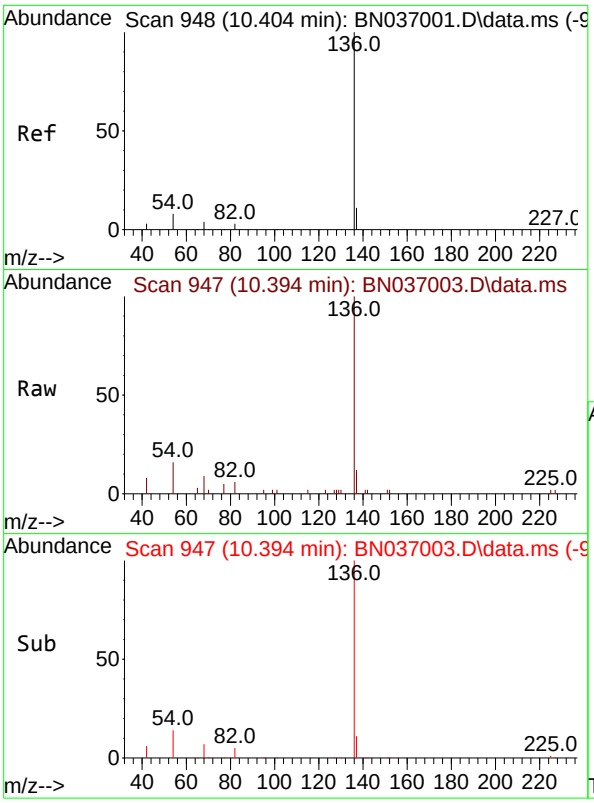


#6
bis(2-Chloroethyl)ether
Concen: 1.645 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 93 Resp: 10588

Ion	Ratio	Lower	Upper
93	100		
63	87.8	70.1	105.1
95	32.0	26.2	39.2



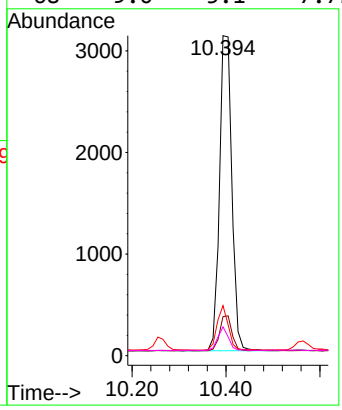


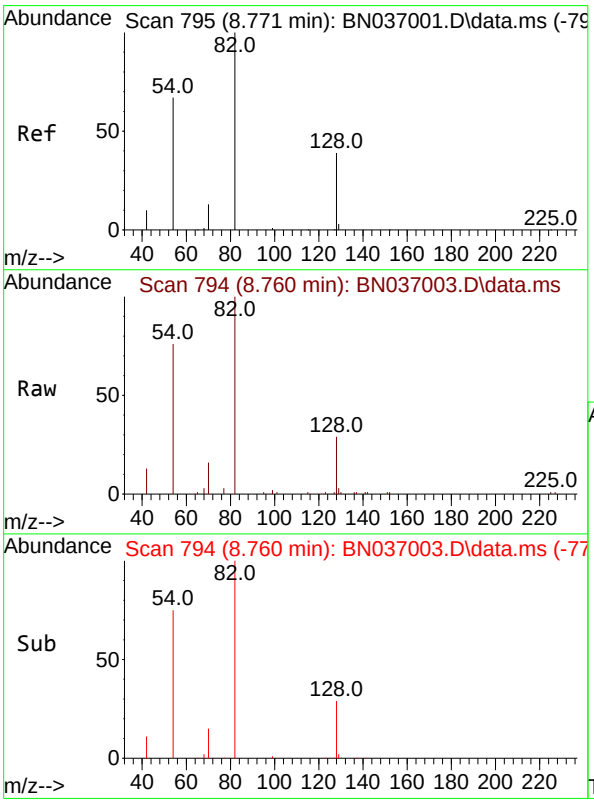
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 5654

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.4	15.6
54	15.7	8.5	12.7#
68	9.0	5.1	7.7#

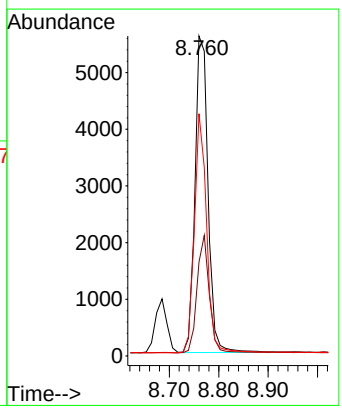


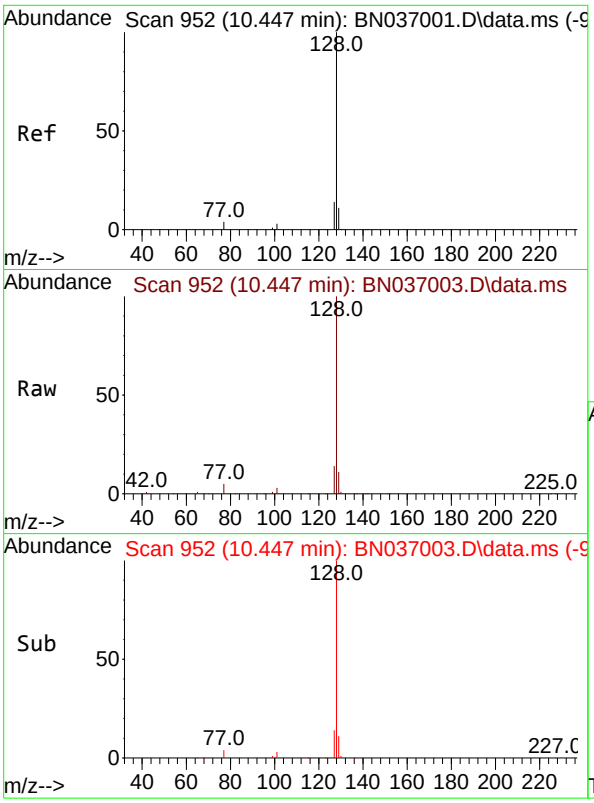


#8
Nitrobenzene-d5
Concen: 1.662 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 82 Resp: 10231

Ion	Ratio	Lower	Upper
82	100		
128	29.3	34.0	51.0#
54	75.7	55.0	82.4



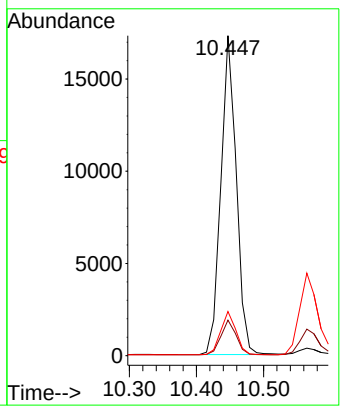


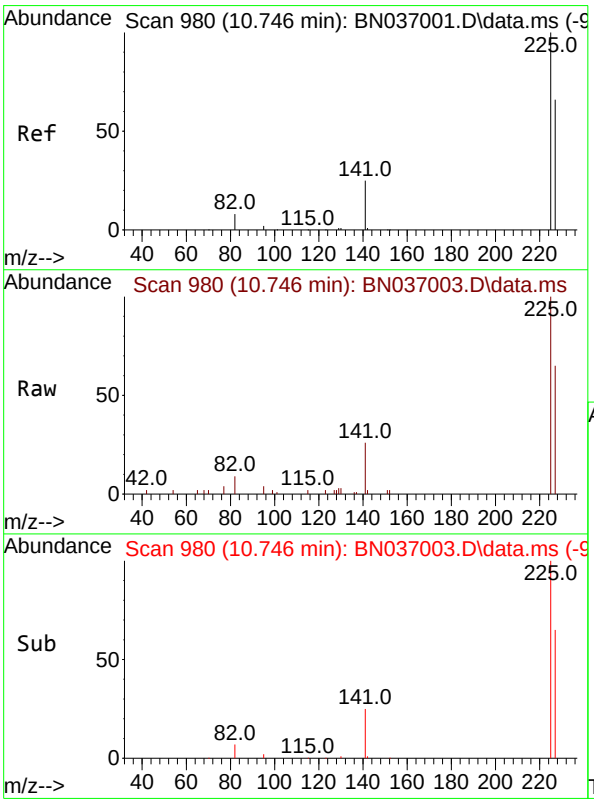
#9
Naphthalene
Concen: 1.659 ng
RT: 10.447 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 27723

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.7	14.5
127	13.8	12.4	18.6

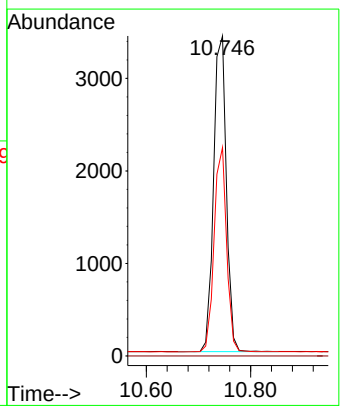


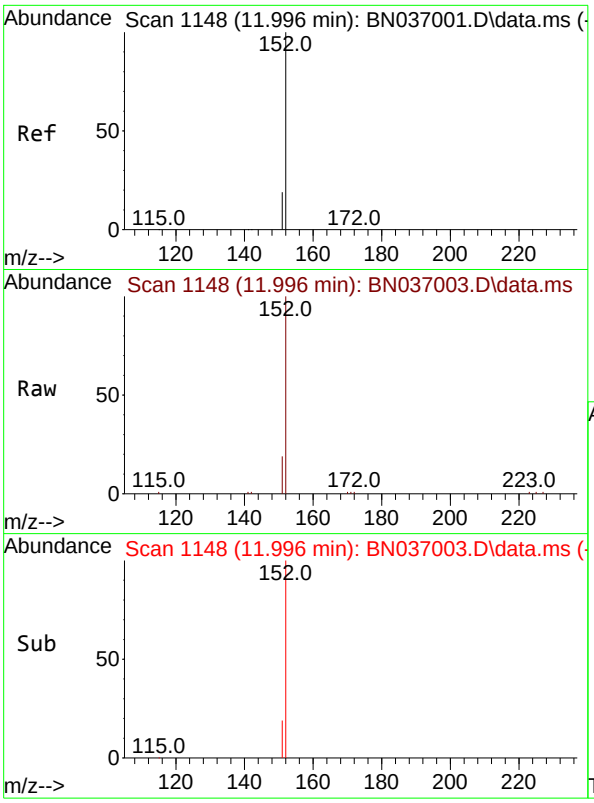


#10
Hexachlorobutadiene
Concen: 1.648 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:225 Resp: 5780

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	50.9	76.3



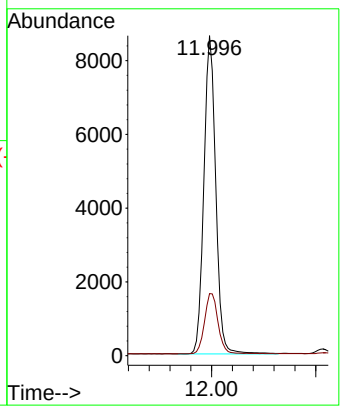


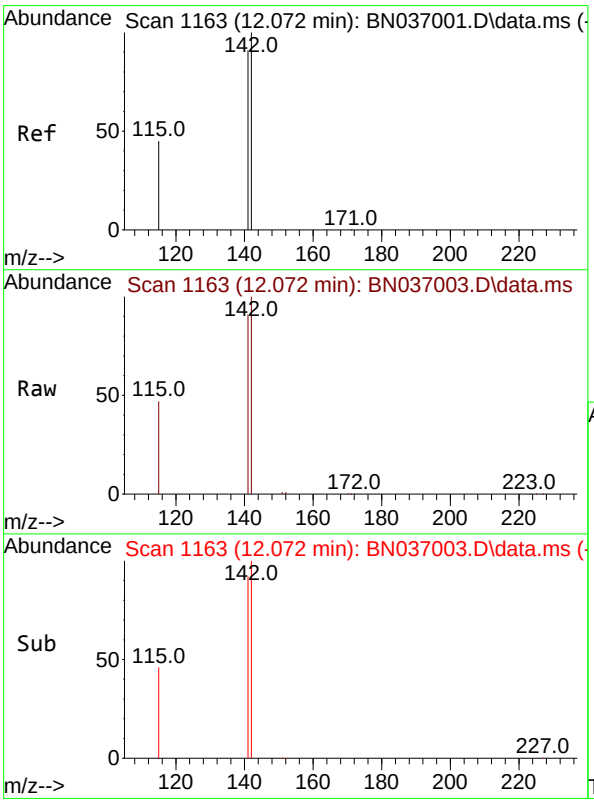
#11
2-Methylnaphthalene-d10
Concen: 1.714 ng
RT: 11.996 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 13642

Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.5	26.3

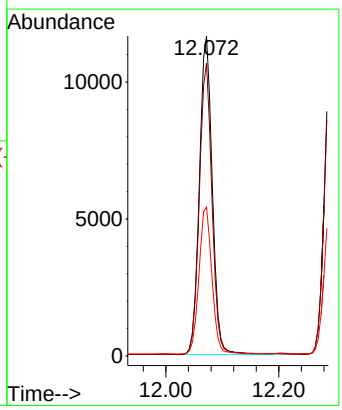


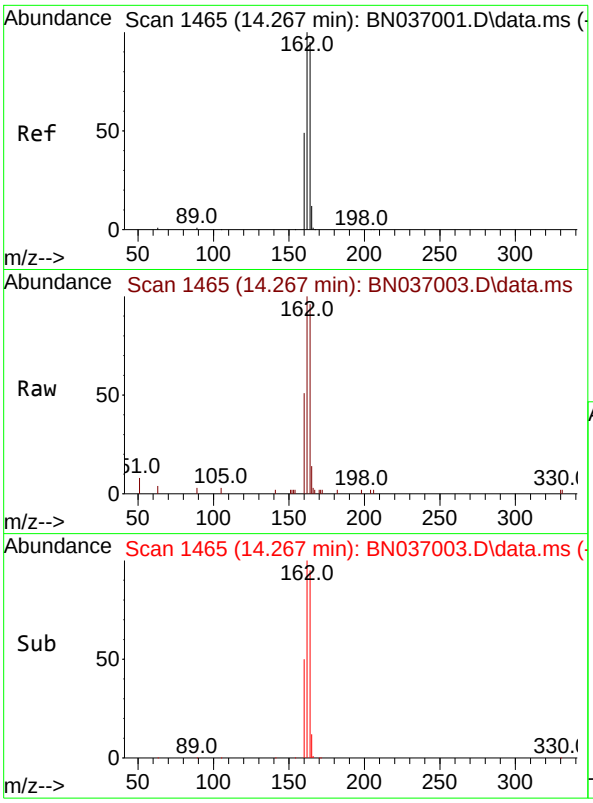


#12
2-Methylnaphthalene
Concen: 1.712 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:142 Resp: 18399

Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.3	109.9
115	46.6	38.4	57.6



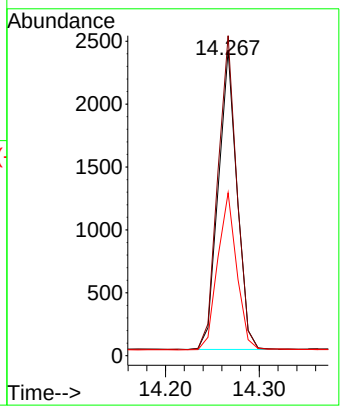


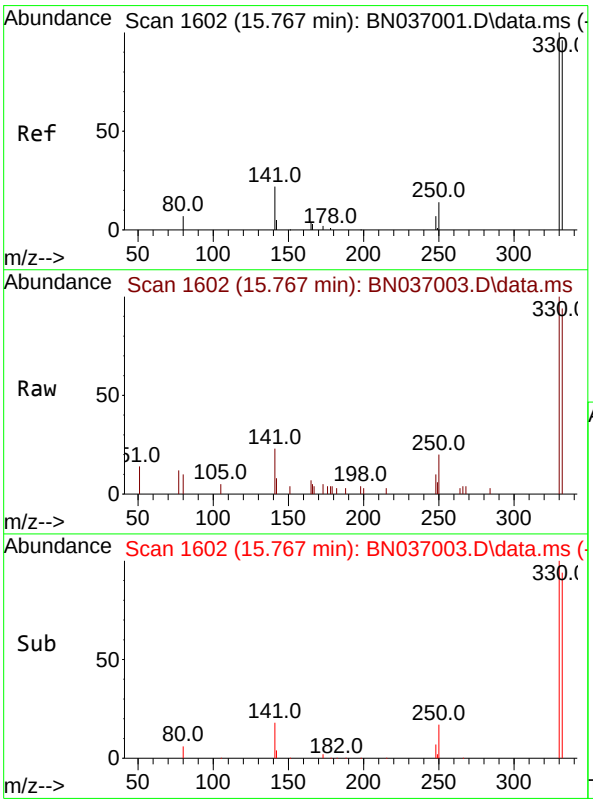
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3305

Ion	Ratio	Lower	Upper
164	100		
162	104.7	84.2	126.4
160	53.3	42.6	63.8

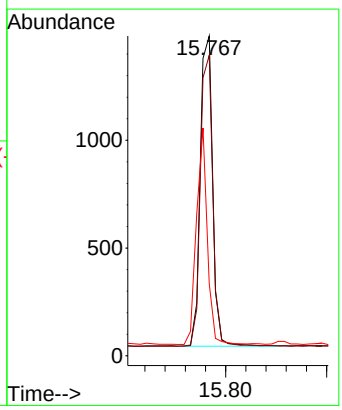


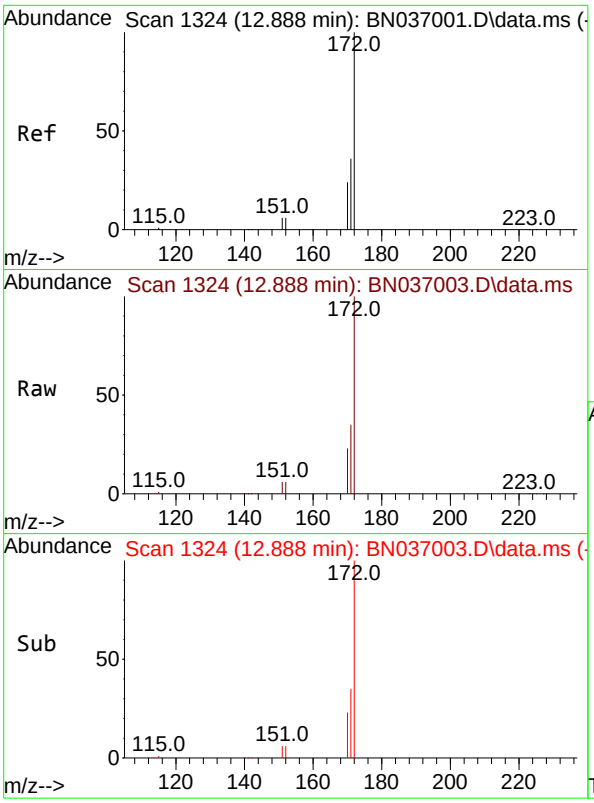


#14
2,4,6-Tribromophenol
Concen: 1.695 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:330 Resp: 2461

Ion	Ratio	Lower	Upper
330	100		
332	93.9	73.8	110.8
141	60.9	43.9	65.9



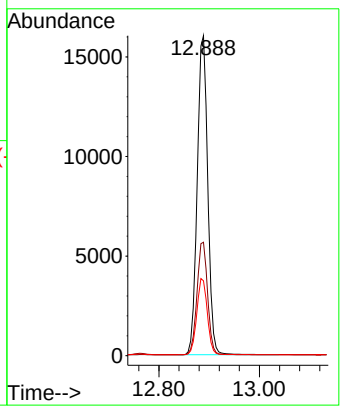


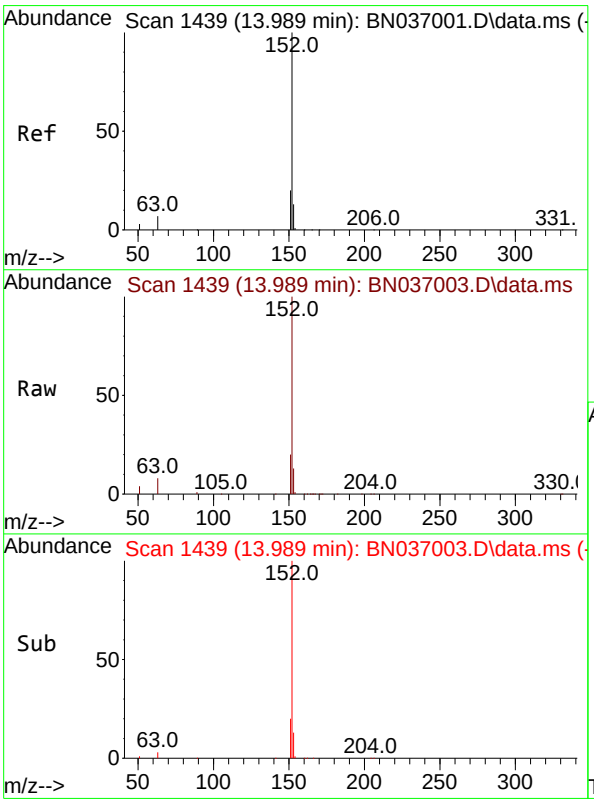
#15
2-Fluorobiphenyl
Concen: 1.684 ng
RT: 12.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 25480

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.2	43.8
170	23.4	20.5	30.7

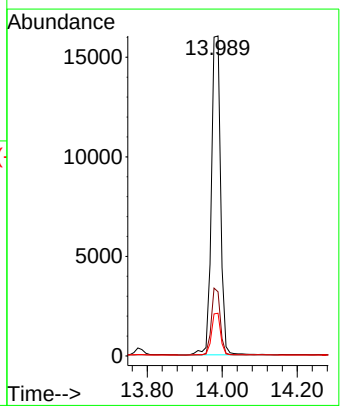


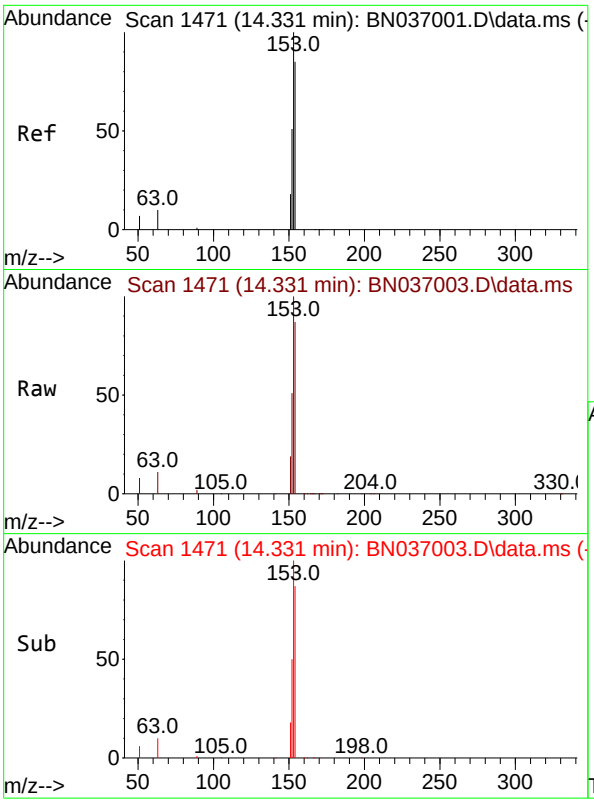


#16
Acenaphthylene
Concen: 1.702 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:152 Resp: 27375

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.1	24.1
153	12.9	10.5	15.7



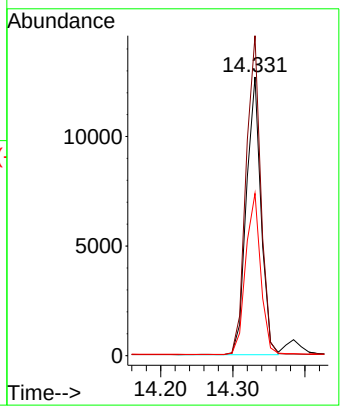


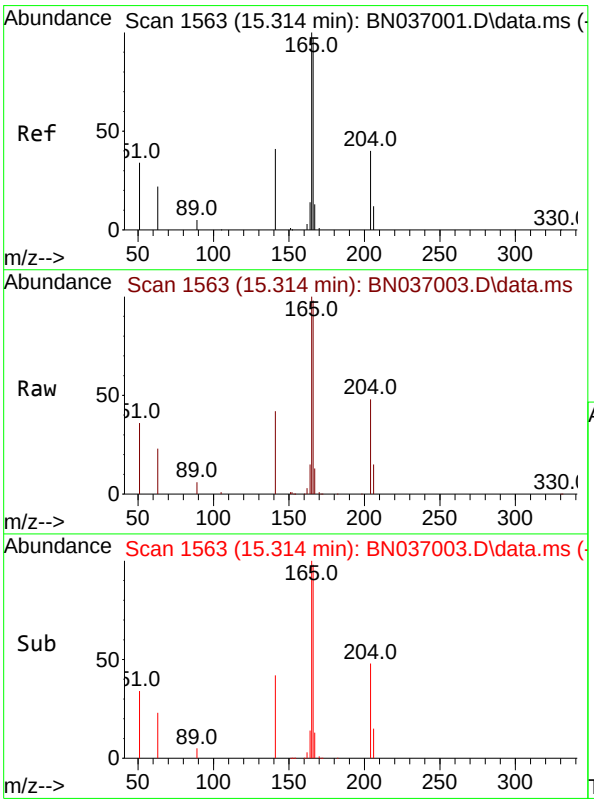
#17
Acenaphthene
Concen: 1.698 ng
RT: 14.331 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 17846

Ion	Ratio	Lower	Upper
154	100		
153	115.9	94.2	141.4
152	59.8	49.4	74.0

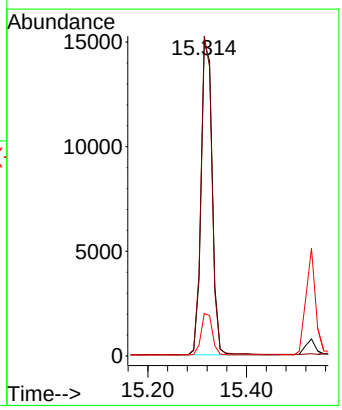


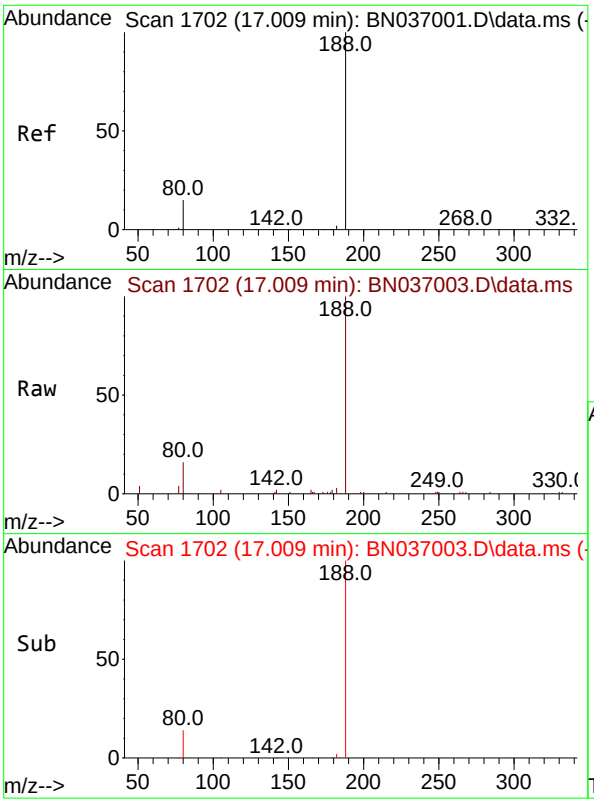


#18
Fluorene
Concen: 1.705 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:166 Resp: 23515

Ion	Ratio	Lower	Upper
166	100		
165	100.2	80.6	120.8
167	13.3	10.6	16.0



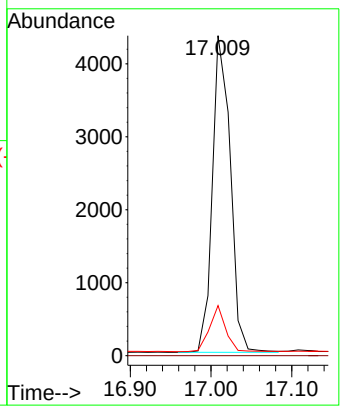


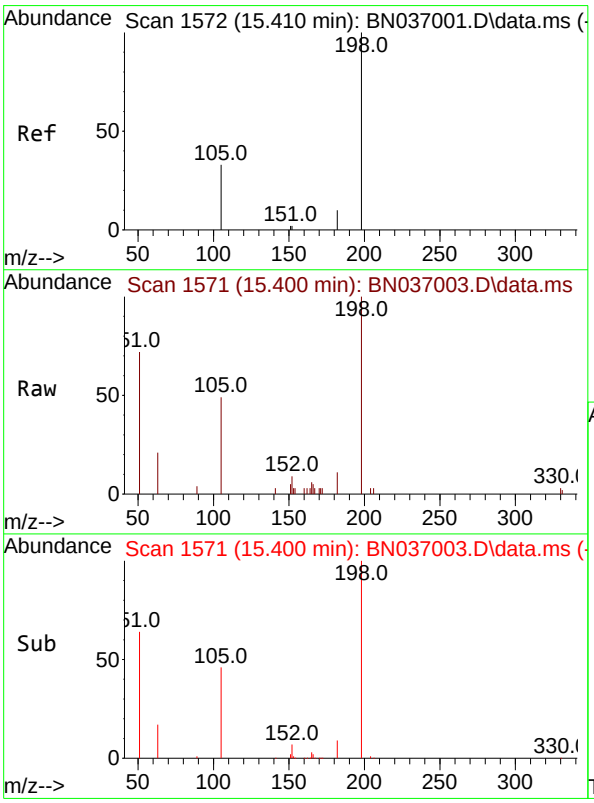
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 6678

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.7	13.4	20.0

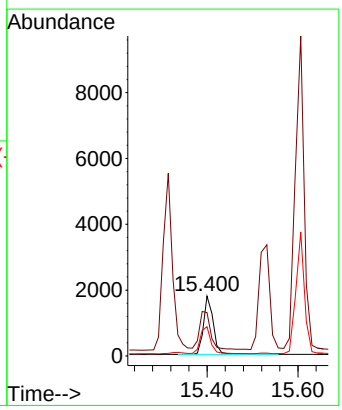


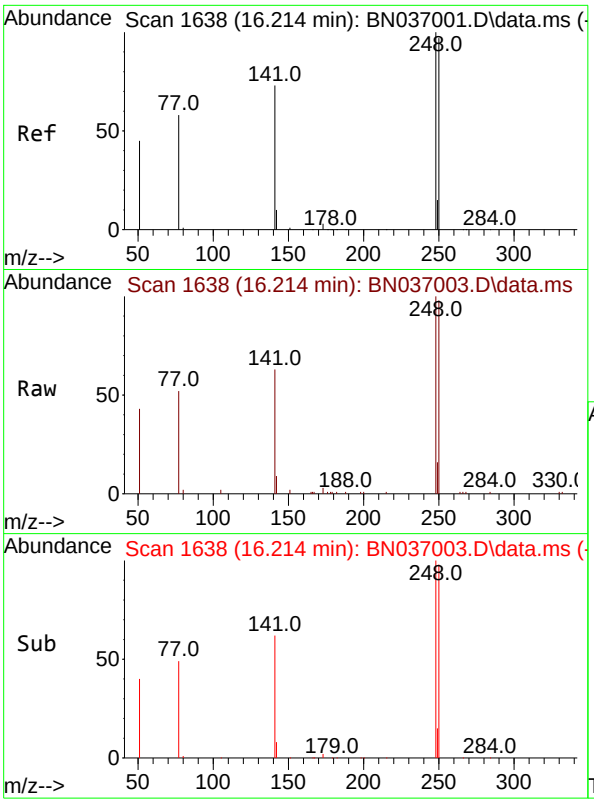


#20
4,6-Dinitro-2-methylphenol
Concen: 1.748 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:198 Resp: 2713

Ion	Ratio	Lower	Upper
198	100		
51	72.3	87.8	131.6#
105	48.8	44.2	66.4



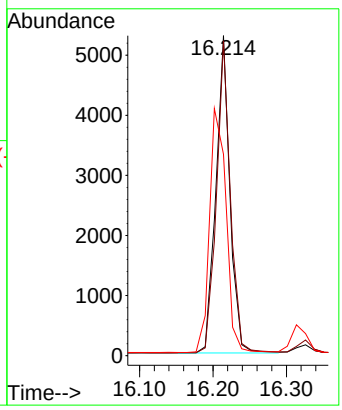


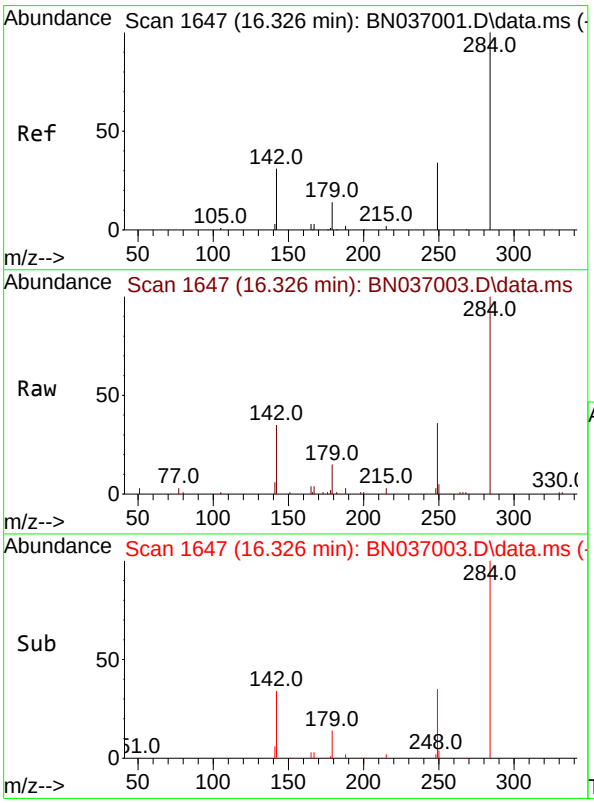
#21
4-Bromophenyl-phenylether
Concen: 1.661 ng
RT: 16.214 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 7008

Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.1	117.1
141	62.9	59.7	89.5

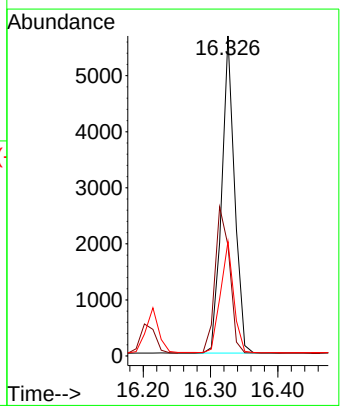


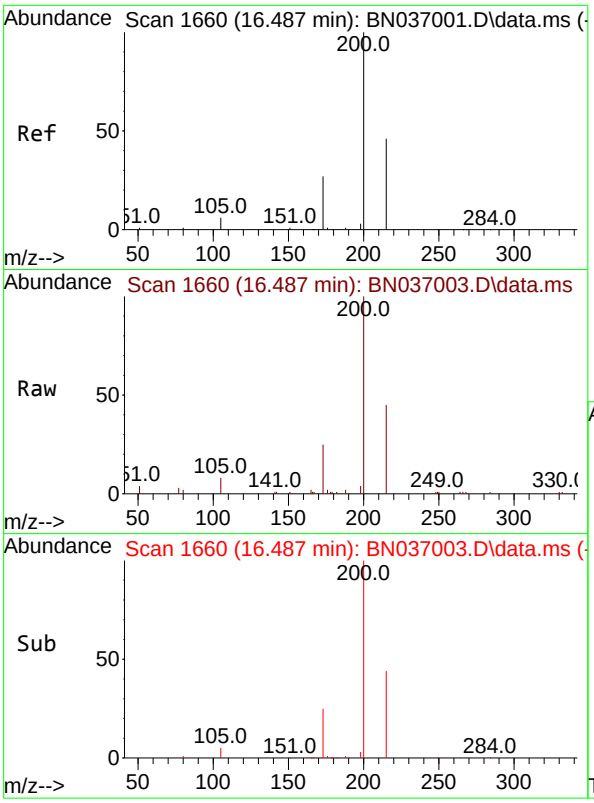


#22
Hexachlorobenzene
Concen: 1.664 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:284 Resp: 7515

Ion	Ratio	Lower	Upper
284	100		
142	52.3	41.2	61.8
249	35.9	28.7	43.1



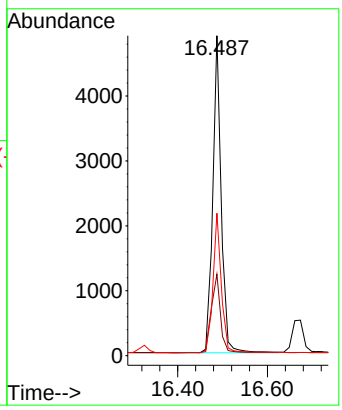


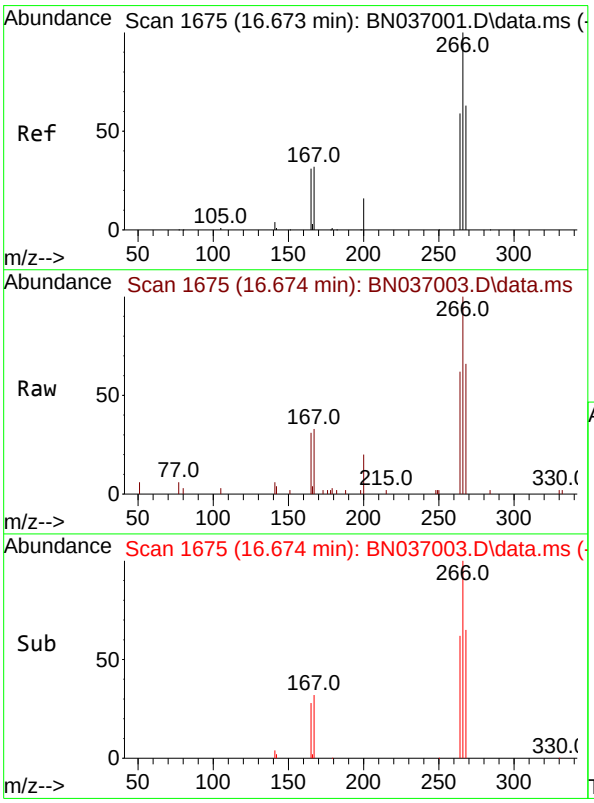
#23
Atrazine
Concen: 1.722 ng
RT: 16.487 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6336

Ion	Ratio	Lower	Upper
200	100		
173	25.5	25.2	37.8
215	44.5	39.3	58.9

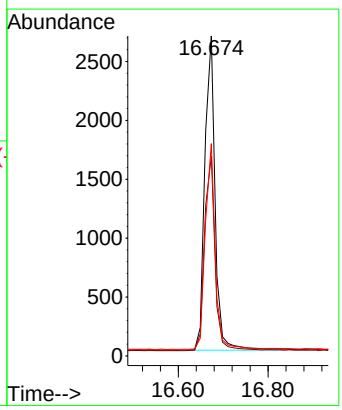


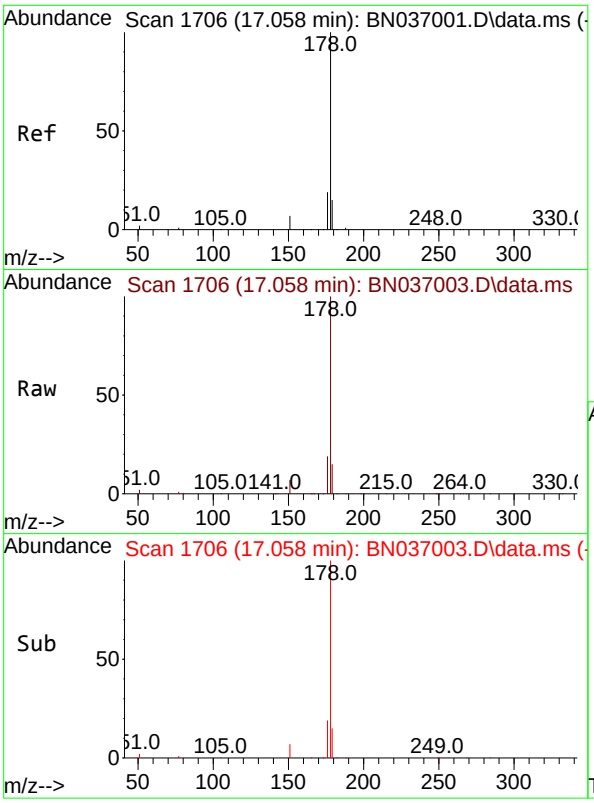


#24
Pentachlorophenol
Concen: 1.697 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:266 Resp: 4256

Ion	Ratio	Lower	Upper
266	100		
264	62.9	47.9	71.9
268	62.9	50.0	75.0



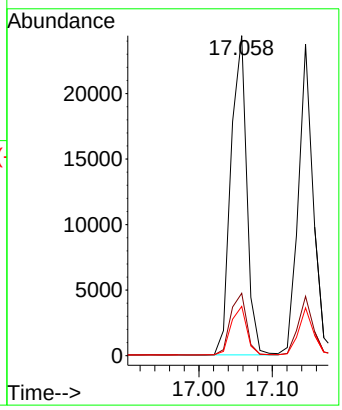


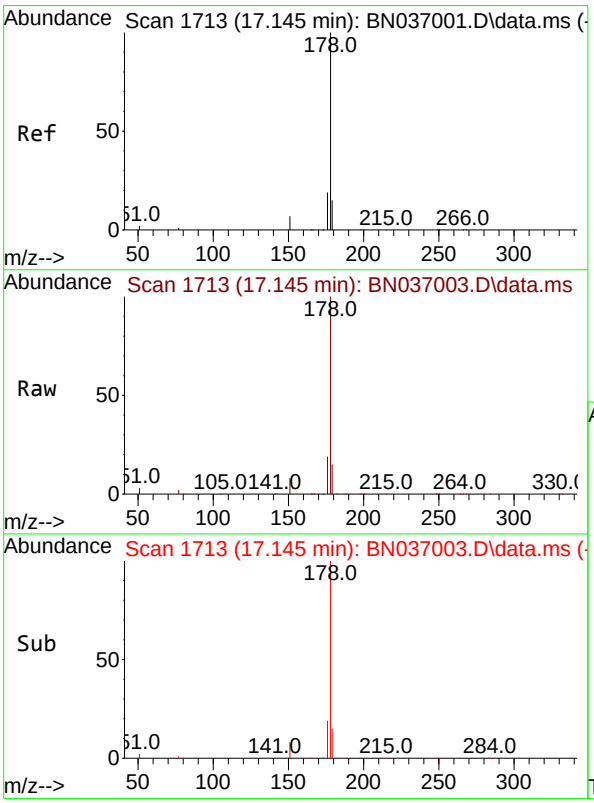
#25
Phenanthrene
Concen: 1.673 ng
RT: 17.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 36506

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.3	12.2	18.2

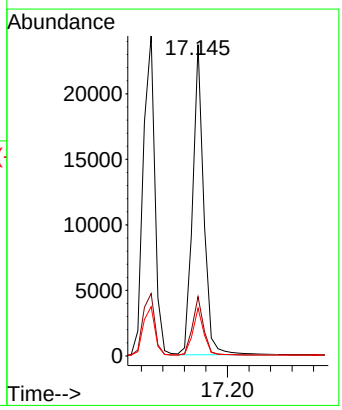


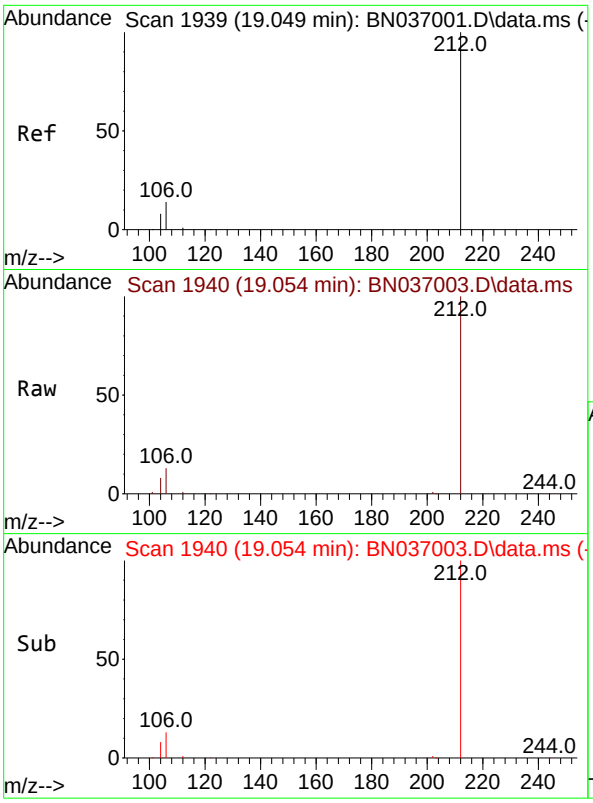


#26
Anthracene
Concen: 1.707 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:178 Resp: 33908

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.1	12.3	18.5



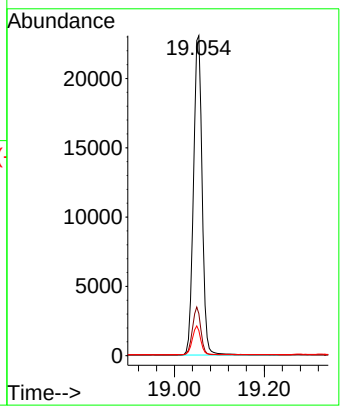


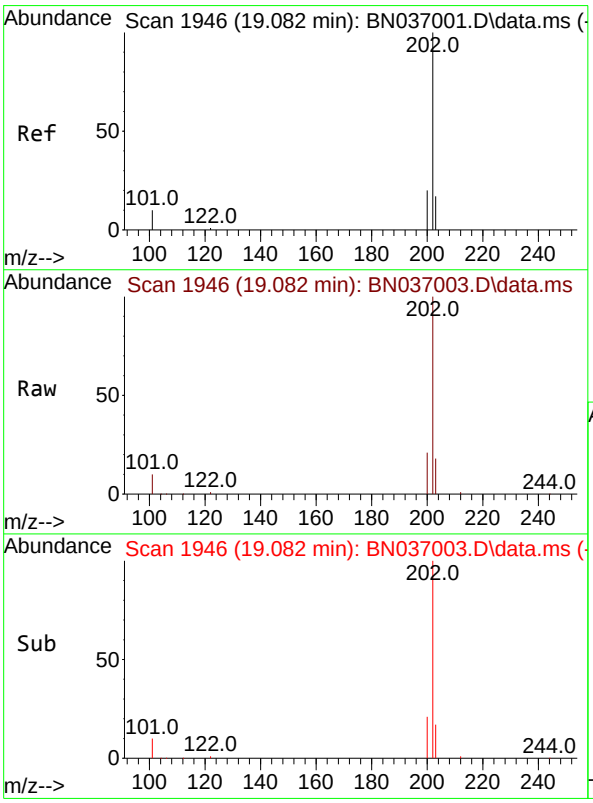
#27
Fluoranthene-d10
Concen: 1.682 ng
RT: 19.054 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 30804

Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.3	16.9
104	8.6	6.7	10.1

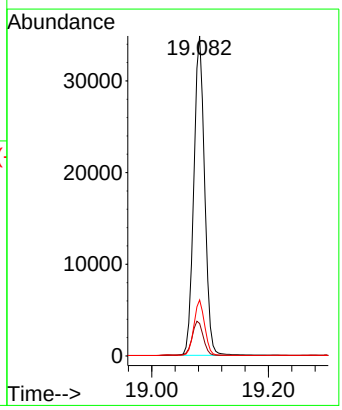


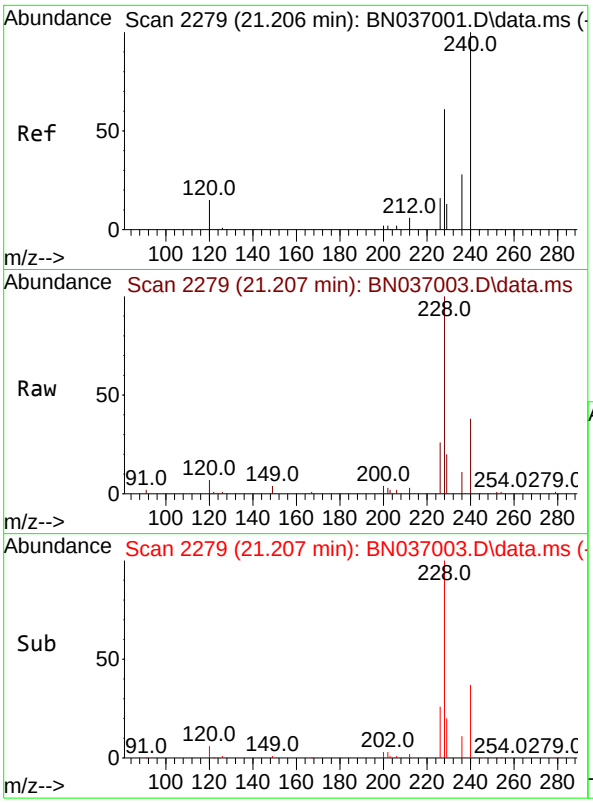


#28
Fluoranthene
Concen: 1.711 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:202 Resp: 44613

Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.9	13.3
203	17.1	13.8	20.8



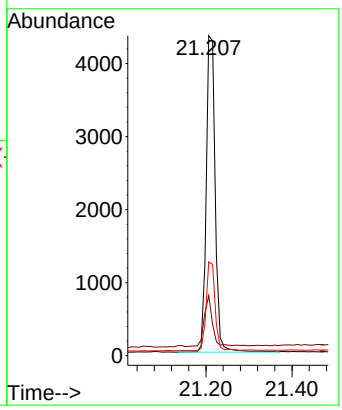


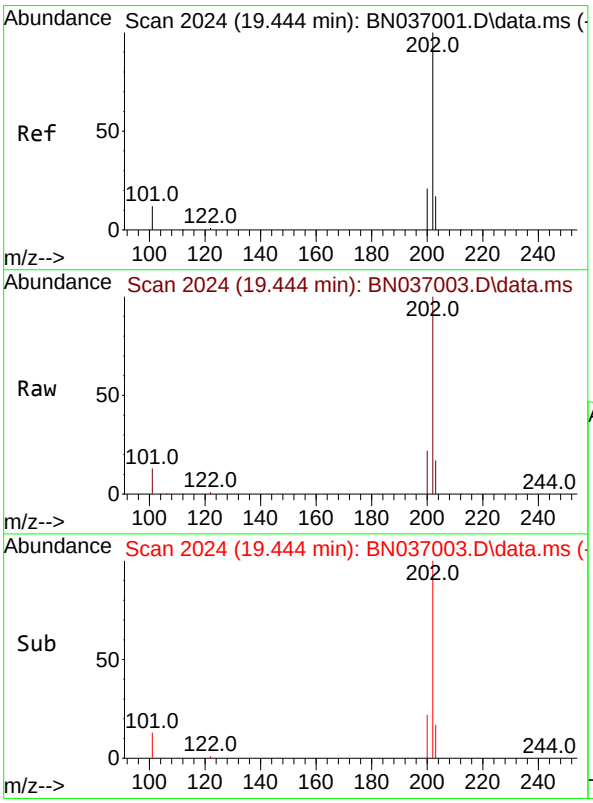
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 6288

Ion	Ratio	Lower	Upper
240	100		
120	18.7	15.1	22.7
236	29.3	24.0	36.0

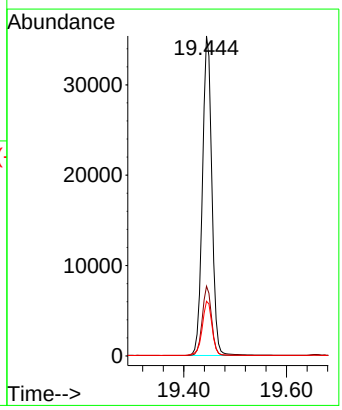


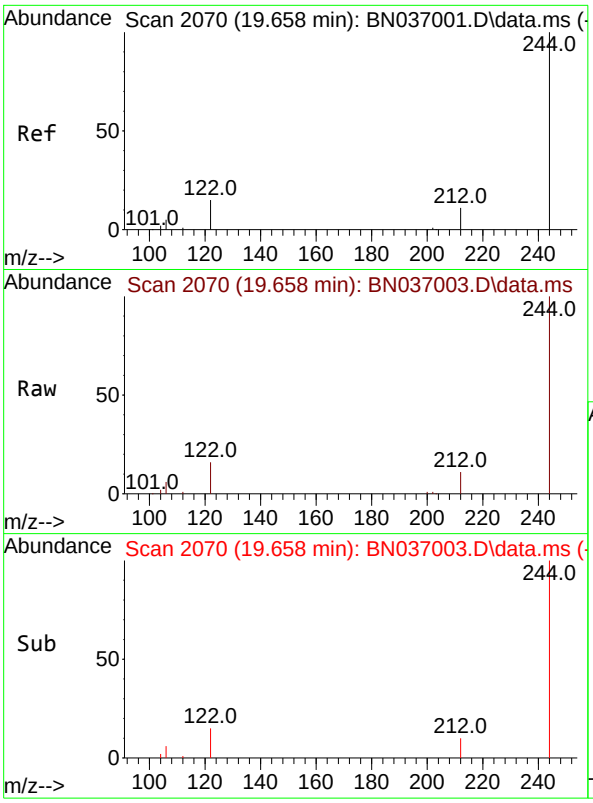


#30
Pyrene
Concen: 1.674 ng
RT: 19.444 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:202 Resp: 45015

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.7	14.2	21.4



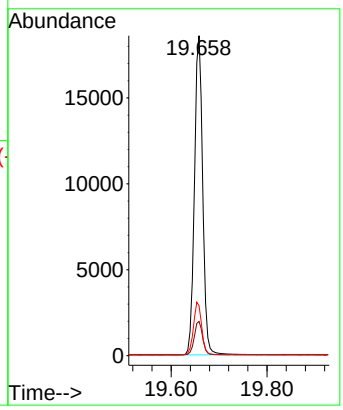


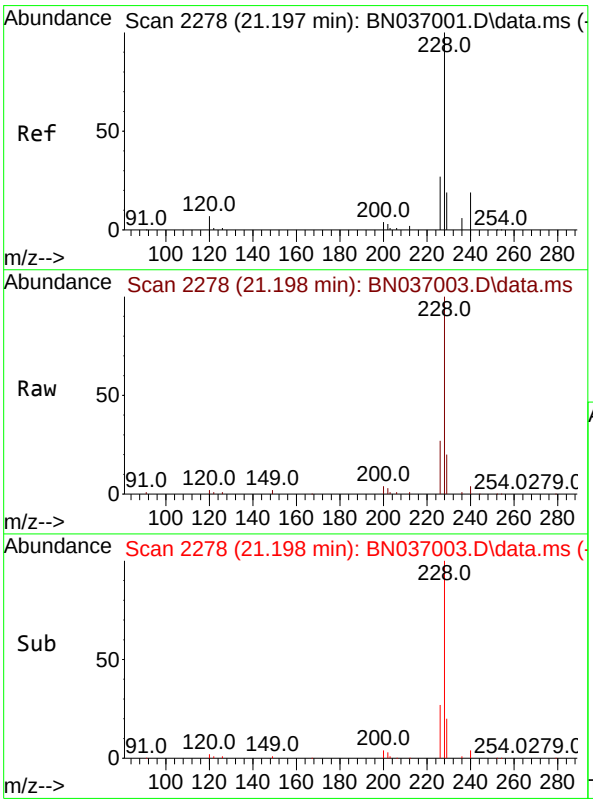
#31
Terphenyl-d14
Concen: 1.667 ng
RT: 19.658 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 22417

Ion	Ratio	Lower	Upper
244	100		
212	10.7	9.7	14.5
122	15.7	13.4	20.0

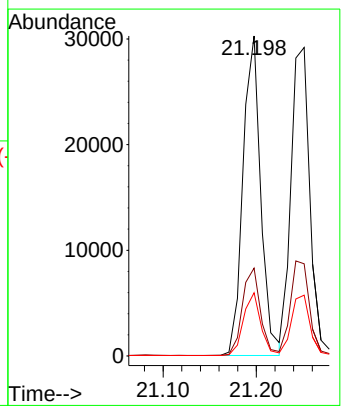


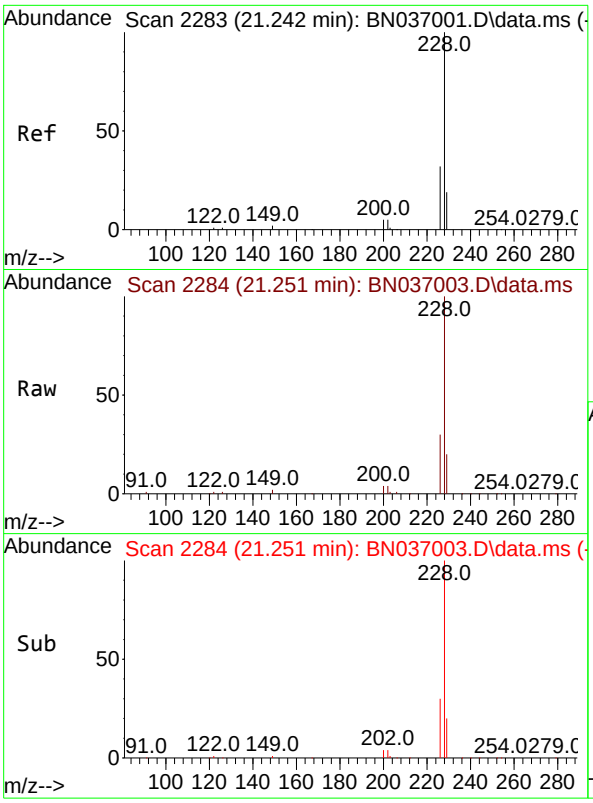


#32
Benzo(a)anthracene
Concen: 1.694 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:228 Resp: 40103

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.2	33.4
229	19.8	16.0	24.0



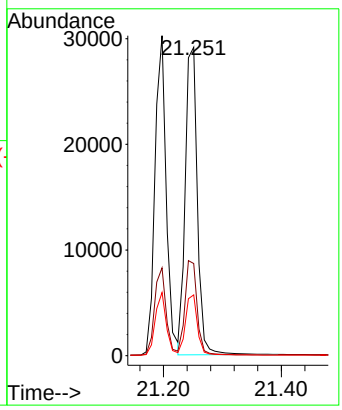


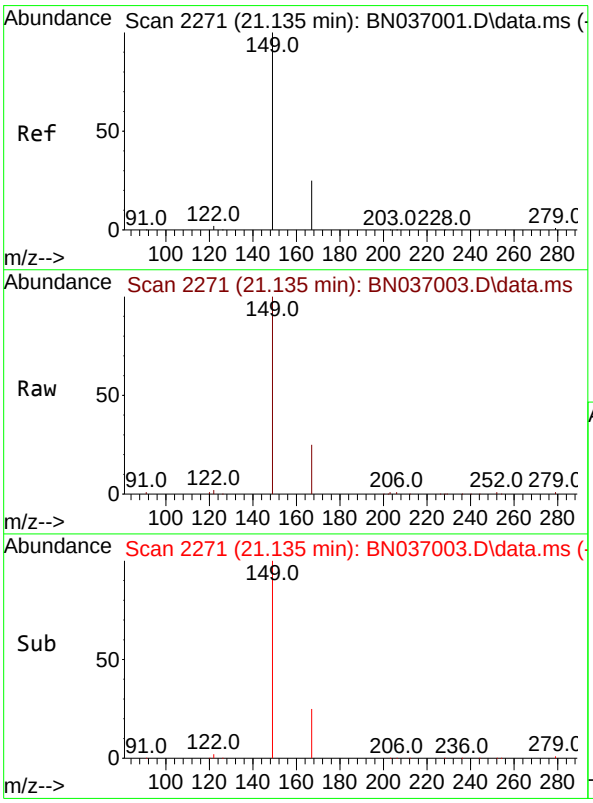
#33
Chrysene
Concen: 1.660 ng
RT: 21.251 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 41576

Ion	Ratio	Lower	Upper
228	100		
226	29.9	26.3	39.5
229	19.7	16.2	24.2

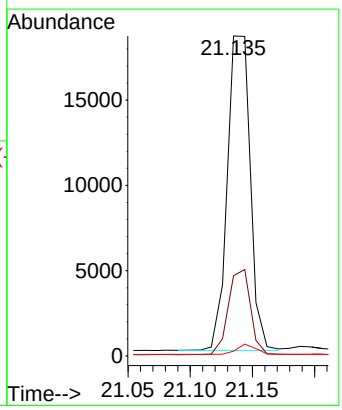


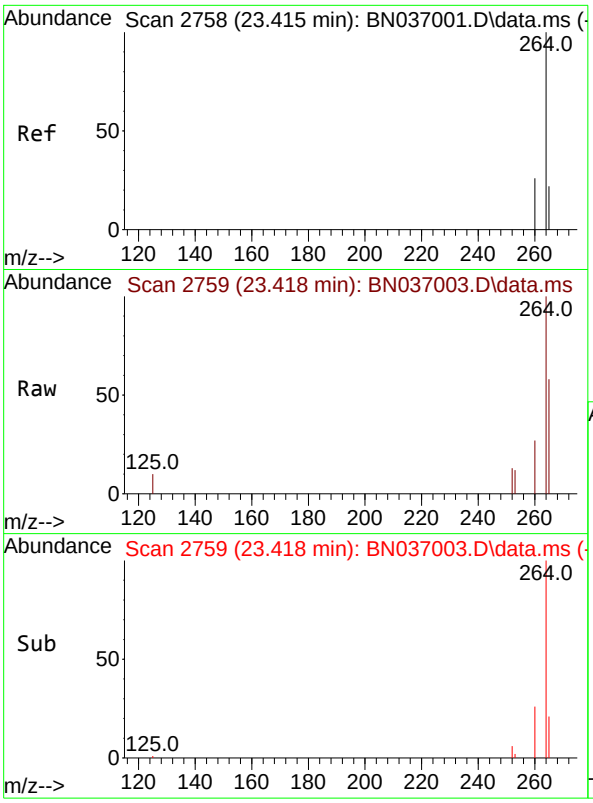


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.621 ng
RT: 21.135 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:149 Resp: 23656

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.6	30.8
279	2.7	2.6	3.8



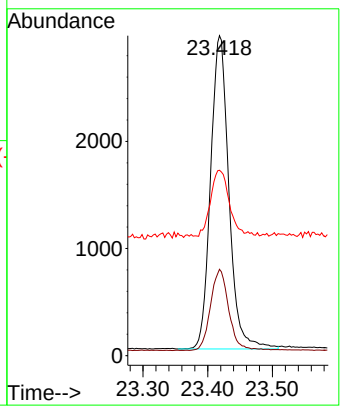


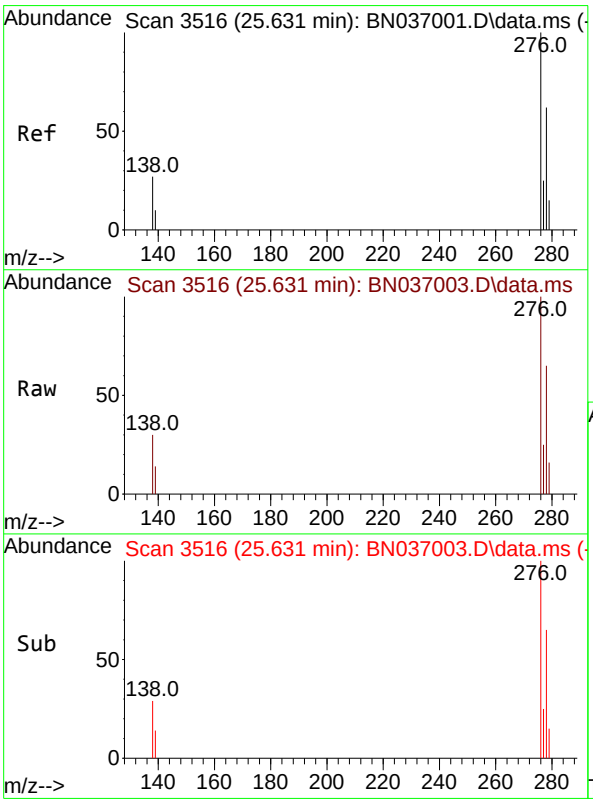
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.418 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 5747

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.9	32.9
265	58.0	51.6	77.4

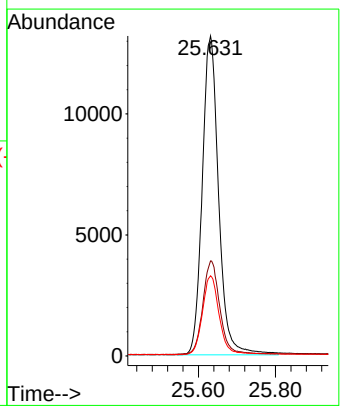


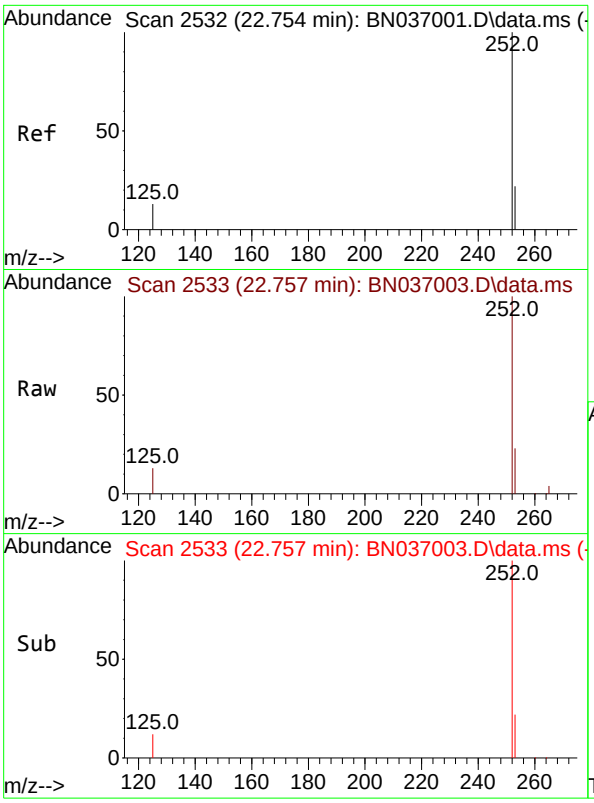


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.652 ng
RT: 25.631 min Scan# 3516
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:276 Resp: 38771

Ion	Ratio	Lower	Upper
276	100		
138	30.4	22.7	34.1
277	24.9	20.0	30.0



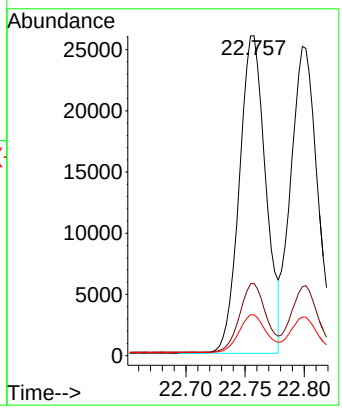


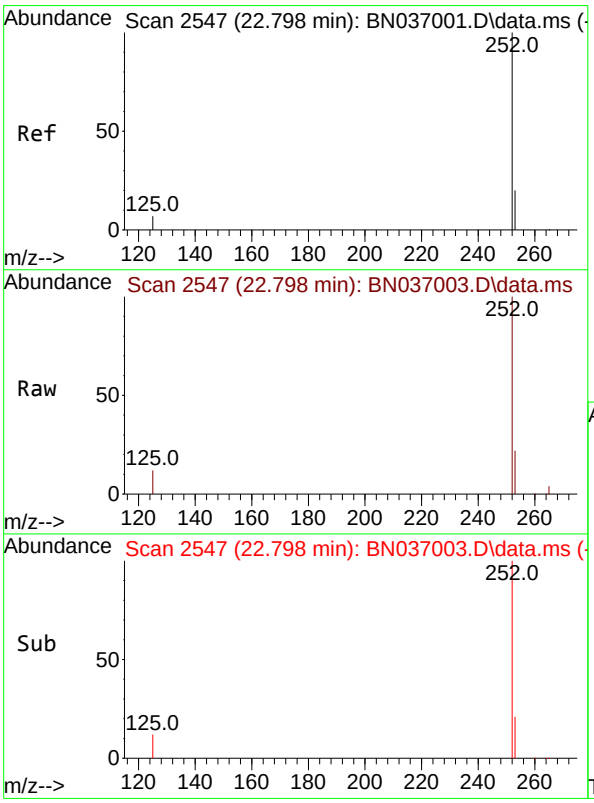
#37
Benzo(b)fluoranthene
Concen: 1.688 ng
RT: 22.757 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 40209

Ion	Ratio	Lower	Upper
252	100		
253	22.5	21.8	32.6
125	12.8	14.6	21.8#

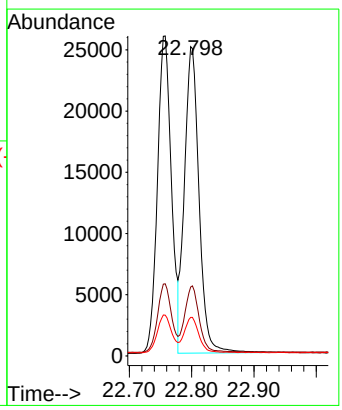


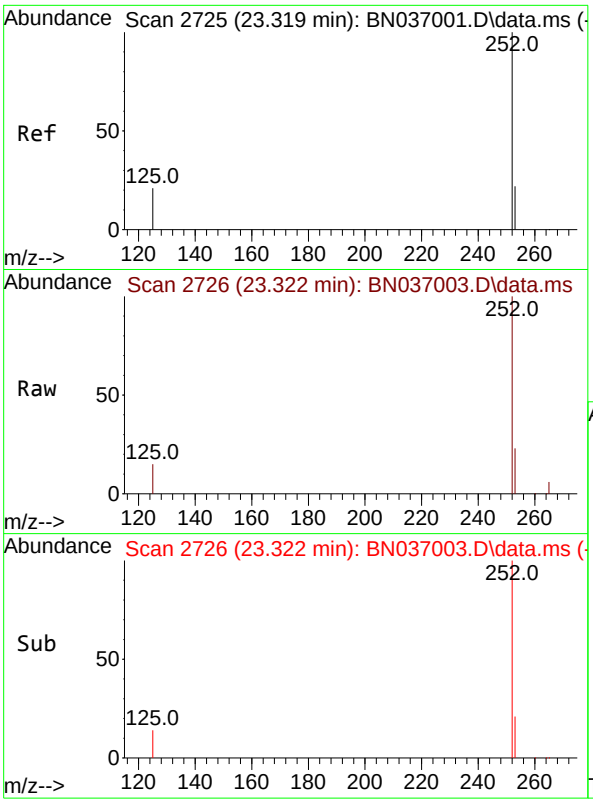


#38
Benzo(k)fluoranthene
Concen: 1.729 ng
RT: 22.798 min Scan# 2547
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:252 Resp: 40699

Ion	Ratio	Lower	Upper
252	100		
253	22.3	21.4	32.2
125	12.4	13.0	19.4#



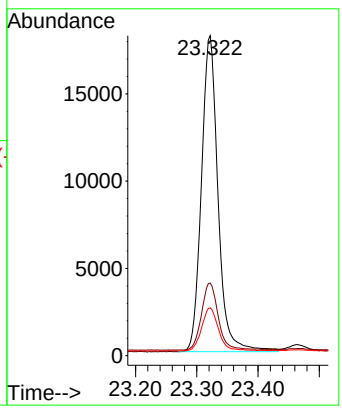


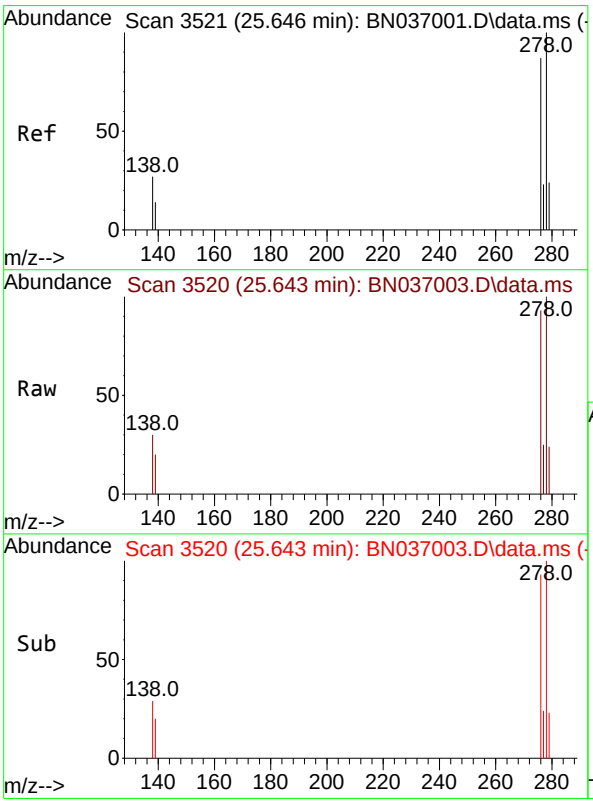
#39
Benzo(a)pyrene
Concen: 1.689 ng
RT: 23.322 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 34149

Ion	Ratio	Lower	Upper
252	100		
253	22.7	23.8	35.6#
125	15.0	21.8	32.6#

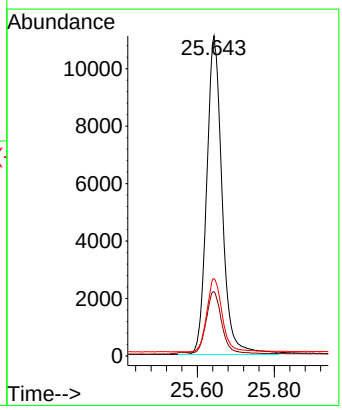


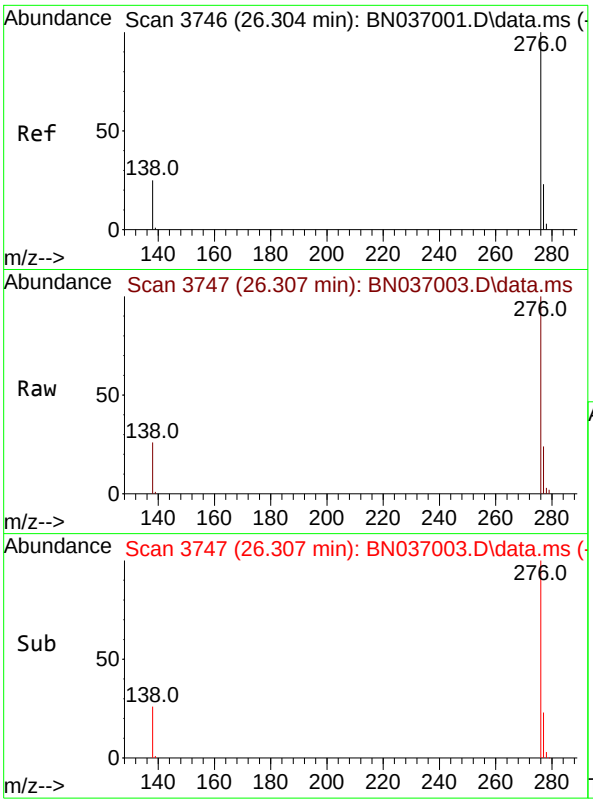


#40
Dibenzo(a,h)anthracene
Concen: 1.685 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:278 Resp: 30810

Ion	Ratio	Lower	Upper
278	100		
139	20.1	17.4	26.0
279	24.1	24.6	37.0#



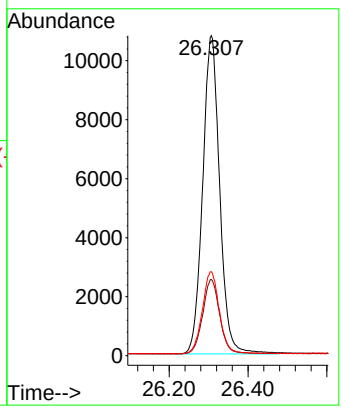


#41
Benzo(g,h,i)perylene
Concen: 1.624 ng
RT: 26.307 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 32256

Ion	Ratio	Lower	Upper
276	100		
277	23.8	20.2	30.4
138	26.2	22.0	33.0



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037004.D
Acq On : 13 May 2025 20:41
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: May 14 11:01:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

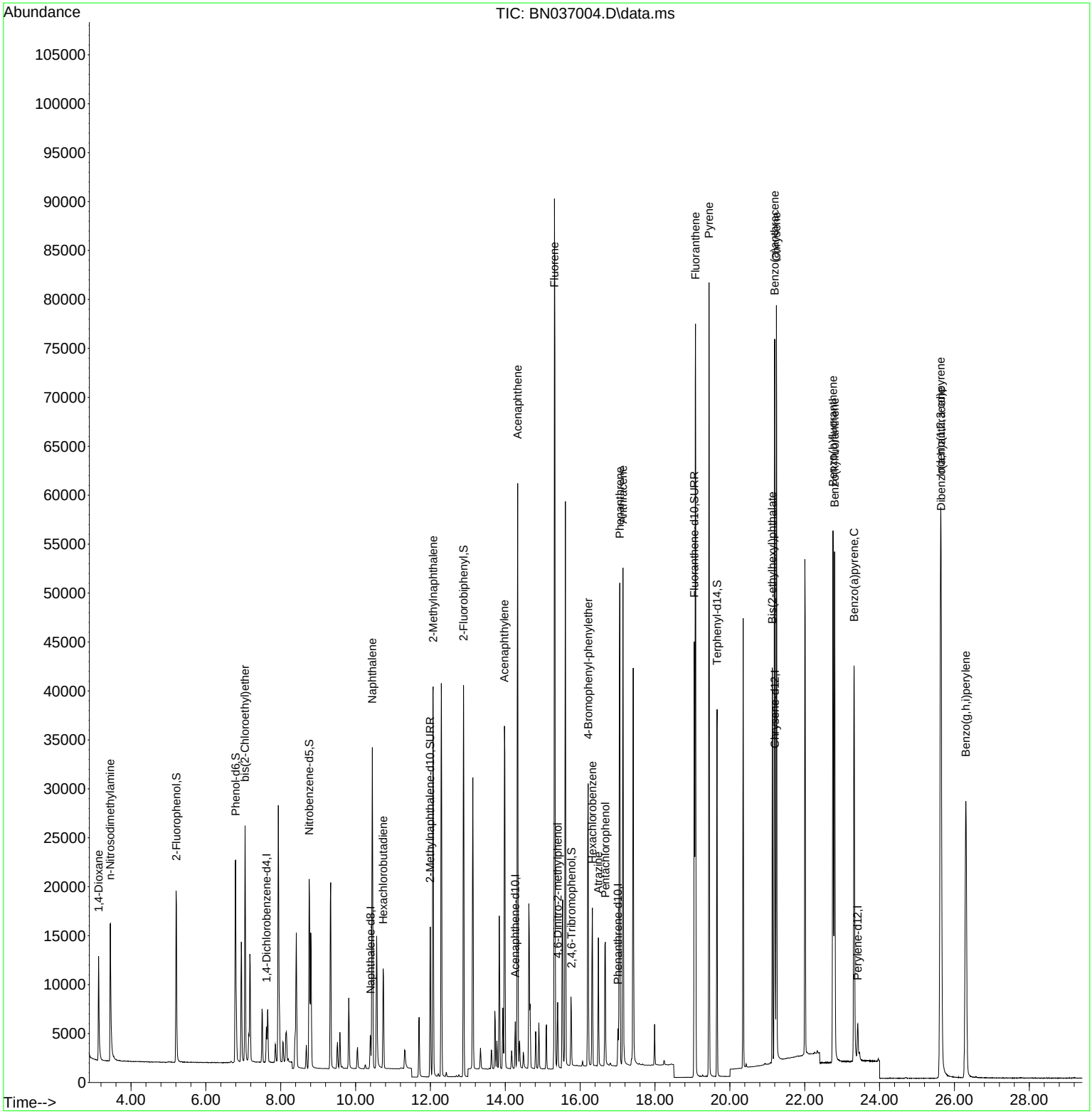
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	1639	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	4315	0.400	ng		0.00
13) Acenaphthene-d10	14.267	164	2482	0.400	ng		0.00
19) Phenanthrene-d10	17.009	188	4870	0.400	ng		0.00
29) Chrysene-d12	21.207	240	5021	0.400	ng		0.00
35) Perylene-d12	23.415	264	4705	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.213	112	12639	2.943	ng		0.00
5) Phenol-d6	6.795	99	16506	3.072	ng		0.00
8) Nitrobenzene-d5	8.760	82	14709	3.131	ng		-0.01
11) 2-Methylnaphthalene-d10	11.996	152	19801	3.260	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	3482	3.194	ng		0.00
15) 2-Fluorobiphenyl	12.883	172	33203	2.921	ng		0.00
27) Fluoranthene-d10	19.049	212	45238	3.388	ng		0.00
31) Terphenyl-d14	19.658	244	32768	3.051	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.133	88	6127	3.046	ng		98
3) n-Nitrosodimethylamine	3.444	42	12673	2.933	ng	#	94
6) bis(2-Chloroethyl)ether	7.048	93	15315	3.097	ng		99
9) Naphthalene	10.447	128	39782	3.120	ng		96
10) Hexachlorobutadiene	10.735	225	8153	3.046	ng	#	100
12) 2-Methylnaphthalene	12.072	142	26589	3.242	ng		97
16) Acenaphthylene	13.978	152	39649	3.282	ng		100
17) Acenaphthene	14.331	154	25773	3.265	ng		98
18) Fluorene	15.314	166	34177	3.300	ng		99
20) 4,6-Dinitro-2-methylph...	15.400	198	4002	3.111	ng	#	70
21) 4-Bromophenyl-phenylether	16.214	248	10166	3.305	ng		92
22) Hexachlorobenzene	16.326	284	10501	3.189	ng		98
23) Atrazine	16.487	200	9103	3.393	ng	#	90
24) Pentachlorophenol	16.674	266	6329	3.460	ng		98
25) Phenanthrene	17.058	178	52084	3.272	ng		100
26) Anthracene	17.145	178	49070	3.388	ng		100
28) Fluoranthene	19.082	202	65127	3.426	ng		99
30) Pyrene	19.444	202	65923	3.069	ng		100
32) Benzo(a)anthracene	21.198	228	61105	3.232	ng		99
33) Chrysene	21.242	228	62672	3.134	ng		98
34) Bis(2-ethylhexyl)phtha...	21.135	149	36266	3.113	ng		99
36) Indeno(1,2,3-cd)pyrene	25.631	276	65193	3.393	ng		98
37) Benzo(b)fluoranthene	22.755	252	63928	3.277	ng	#	89
38) Benzo(k)fluoranthene	22.798	252	62537	3.245	ng	#	91
39) Benzo(a)pyrene	23.319	252	54366	3.284	ng	#	81
40) Dibenzo(a,h)anthracene	25.643	278	51783	3.460	ng	#	91
41) Benzo(g,h,i)perylene	26.304	276	54177	3.331	ng		97

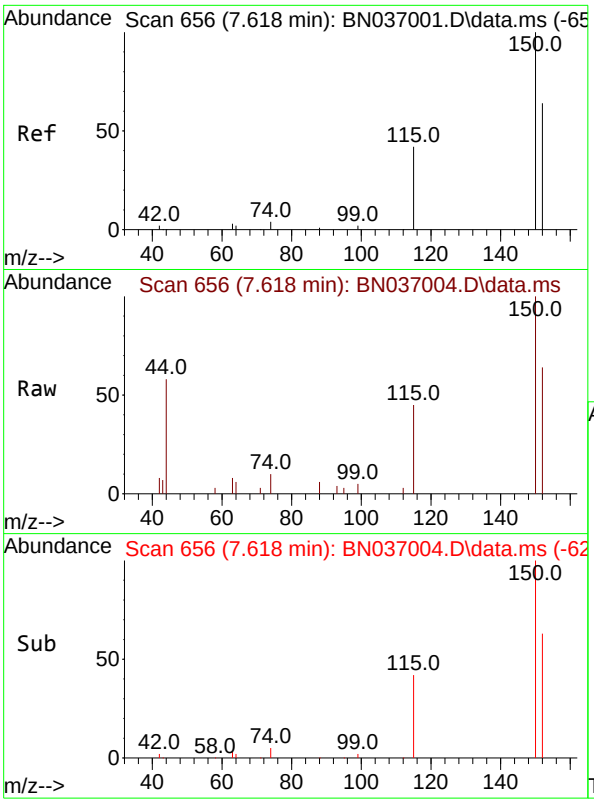
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037004.D
Acq On : 13 May 2025 20:41
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: May 14 11:01:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



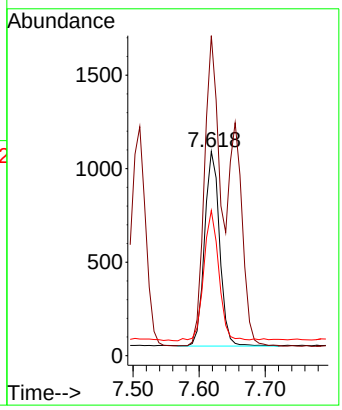


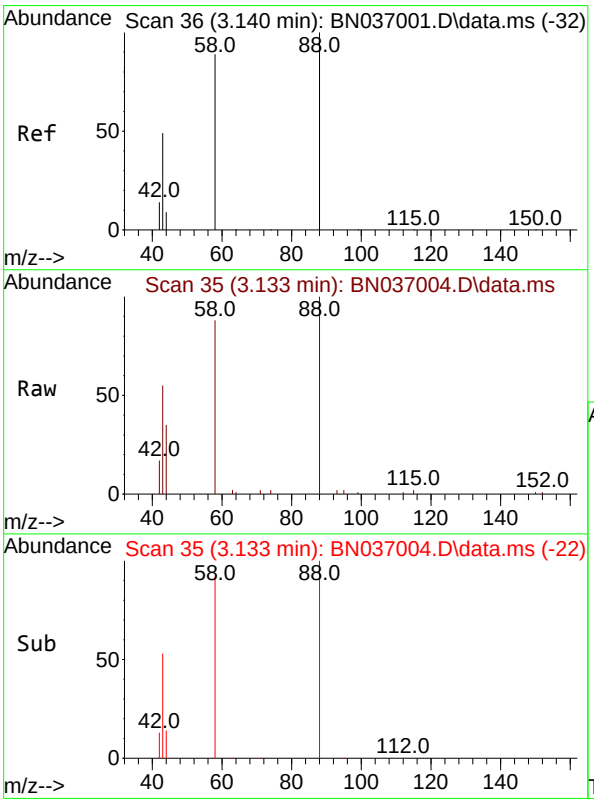
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 1639

Ion	Ratio	Lower	Upper
152	100		
150	156.7	123.9	185.9
115	71.1	55.8	83.8

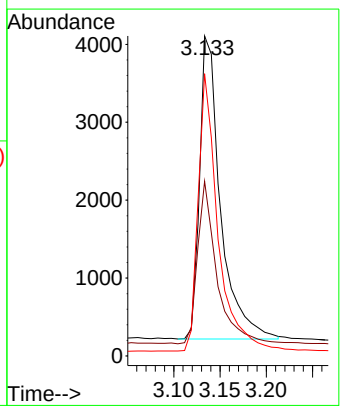


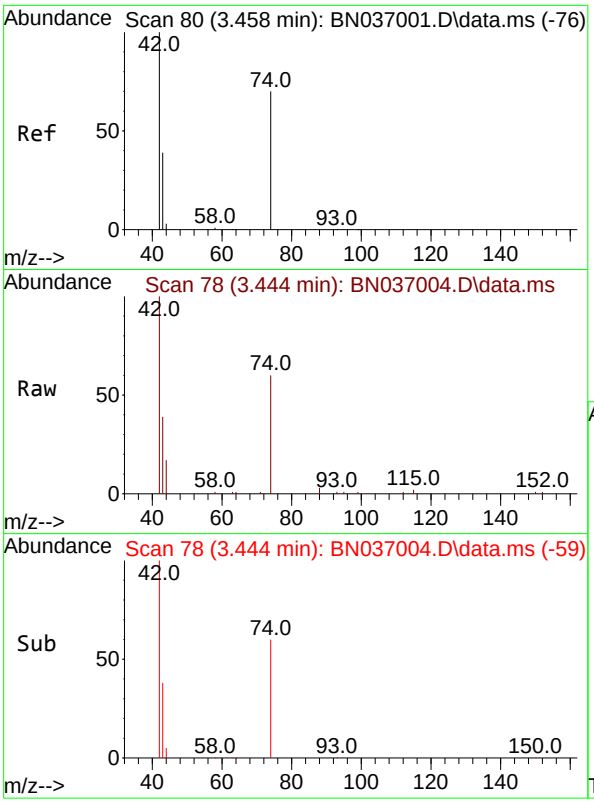


#2
1,4-Dioxane
Concen: 3.046 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion: 88 Resp: 6127

Ion	Ratio	Lower	Upper
88	100		
43	49.5	37.4	56.0
58	86.7	68.8	103.2



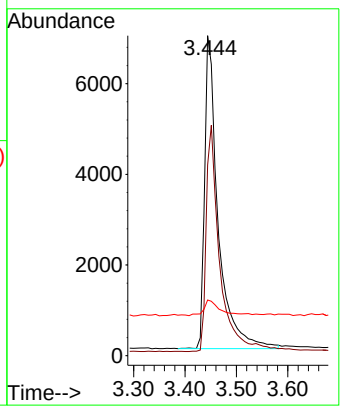


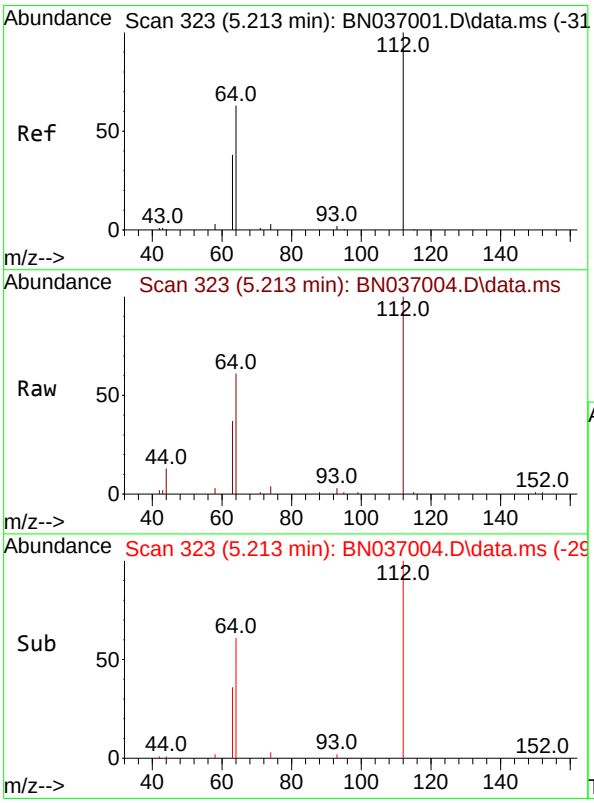
#3
n-Nitrosodimethylamine
Concen: 2.933 ng
RT: 3.444 min Scan# 7
Delta R.T. -0.014 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 12673

Ion	Ratio	Lower	Upper
42	100		
74	71.8	59.8	89.6
44	6.5	11.9	17.9#

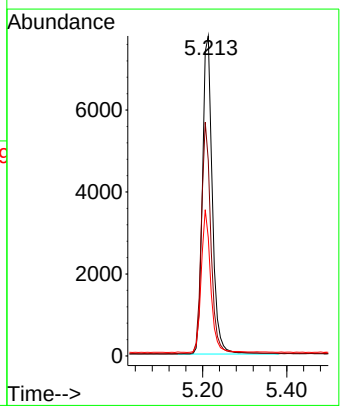


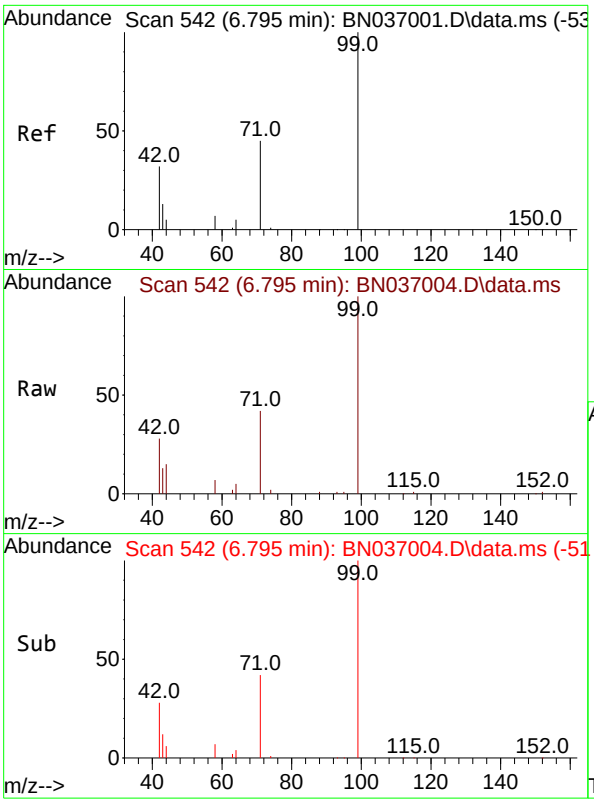


#4
2-Fluorophenol
Concen: 2.943 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:112 Resp: 12639

Ion	Ratio	Lower	Upper
112	100		
64	70.2	55.7	83.5
63	42.6	34.6	51.8



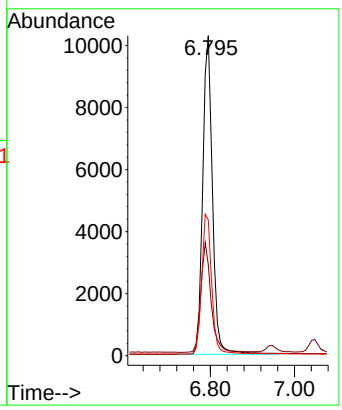


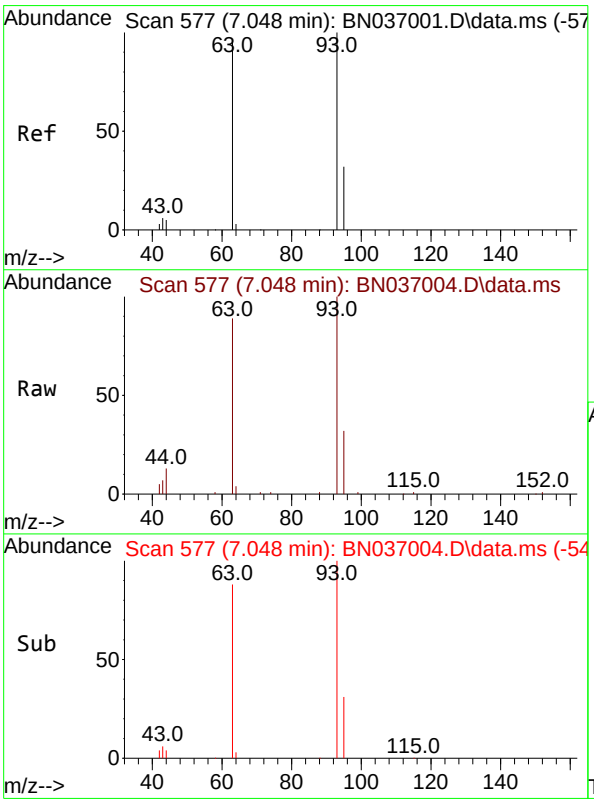
#5
Phenol-d6
Concen: 3.072 ng
RT: 6.795 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 16506

Ion	Ratio	Lower	Upper
99	100		
42	36.1	29.3	43.9
71	45.3	35.7	53.5

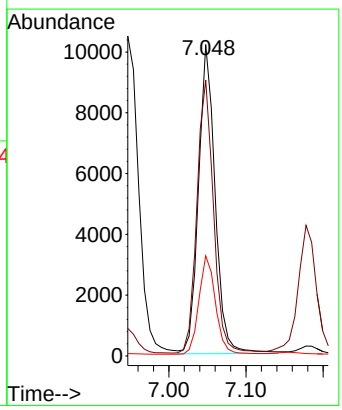


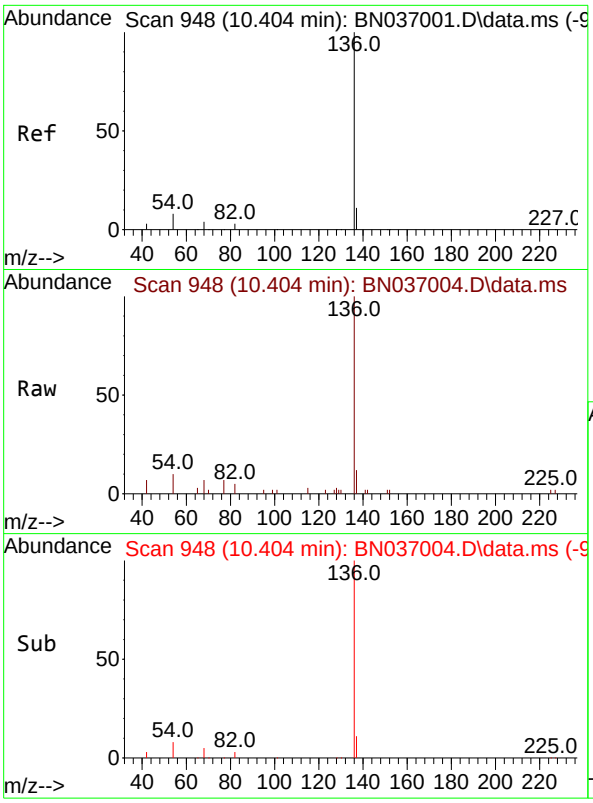


#6
bis(2-Chloroethyl)ether
Concen: 3.097 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion: 93 Resp: 15315

Ion	Ratio	Lower	Upper
93	100		
63	87.8	70.1	105.1
95	31.8	26.2	39.2



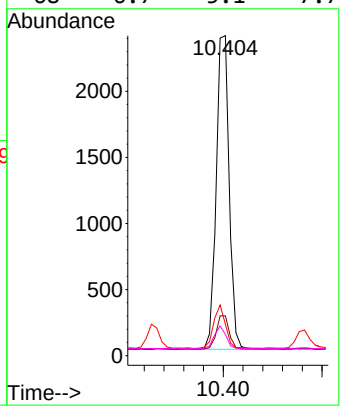


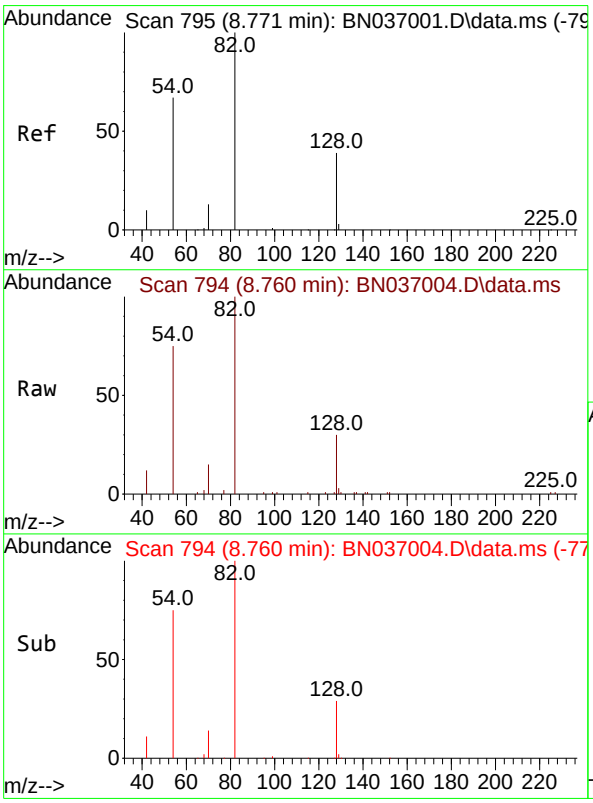
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 4315

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.4	15.6
54	9.8	8.5	12.7
68	6.7	5.1	7.7

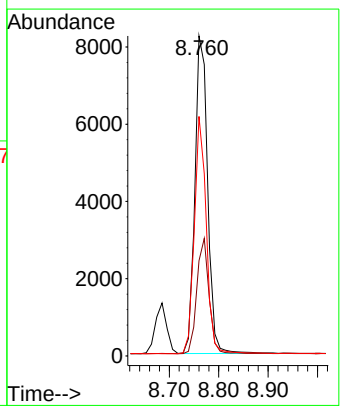


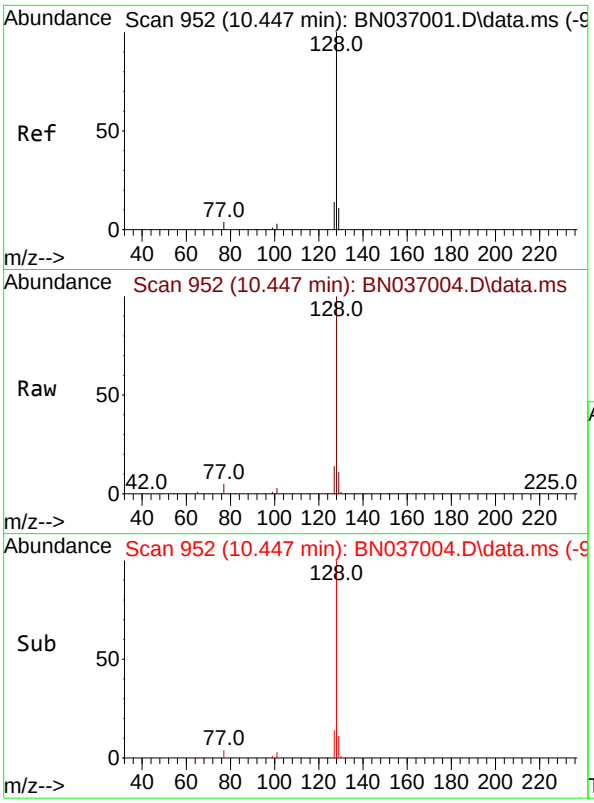


#8
Nitrobenzene-d5
Concen: 3.131 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion: 82 Resp: 14709

Ion	Ratio	Lower	Upper
82	100		
128	29.7	34.0	51.0#
54	74.8	55.0	82.4



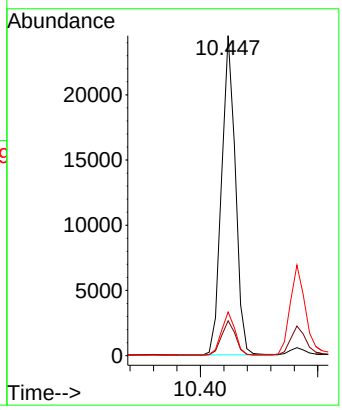


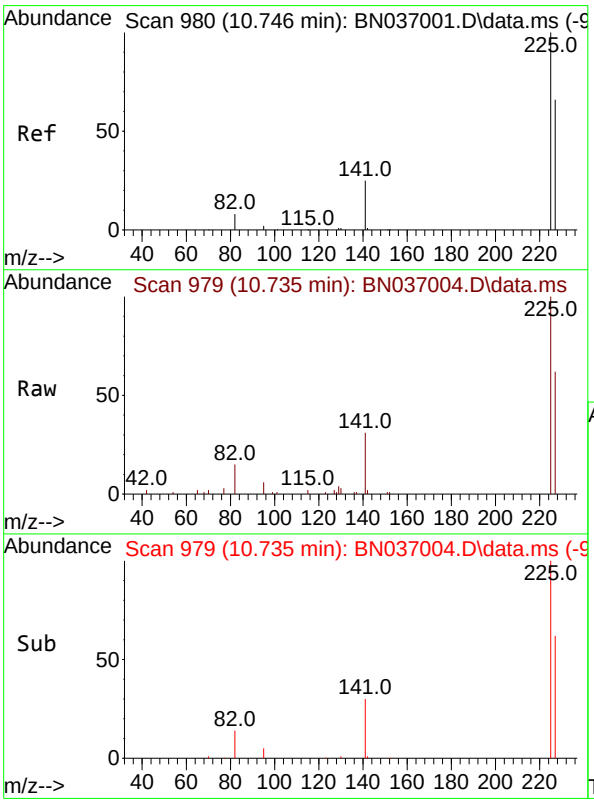
#9
Naphthalene
Concen: 3.120 ng
RT: 10.447 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 39782

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.7	14.5
127	13.7	12.4	18.6

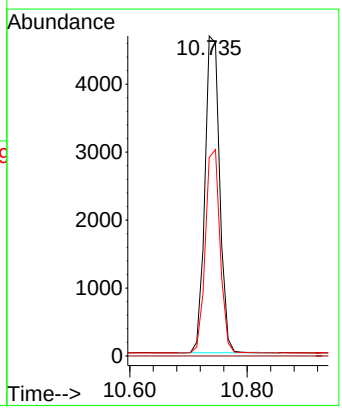


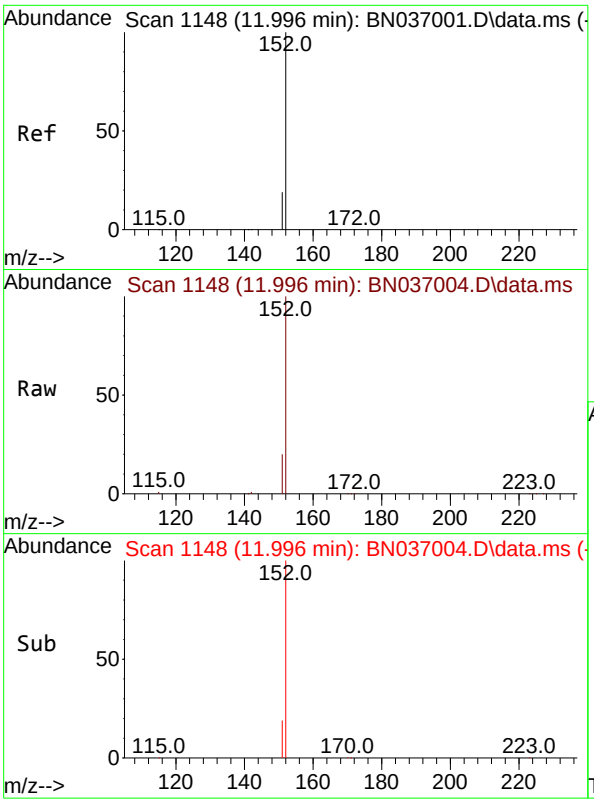


#10
Hexachlorobutadiene
Concen: 3.046 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:225 Resp: 8153

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.9	76.3



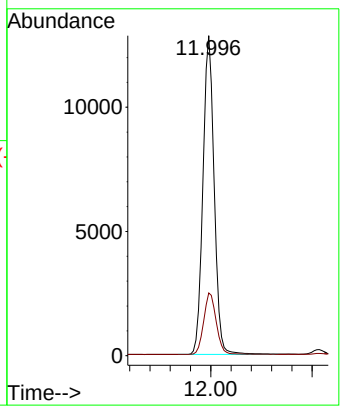


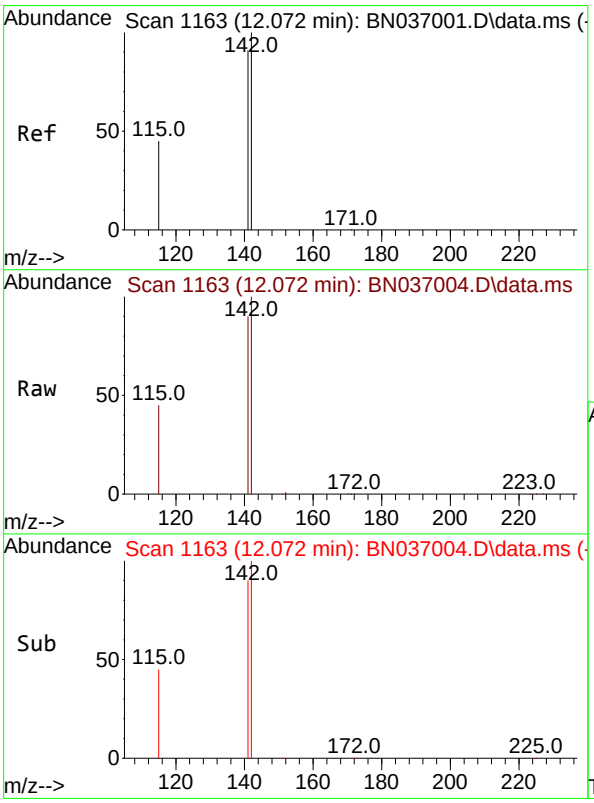
#11
2-Methylnaphthalene-d10
Concen: 3.260 ng
RT: 11.996 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 19801

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.5	26.3

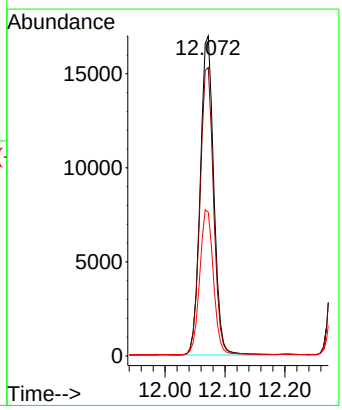


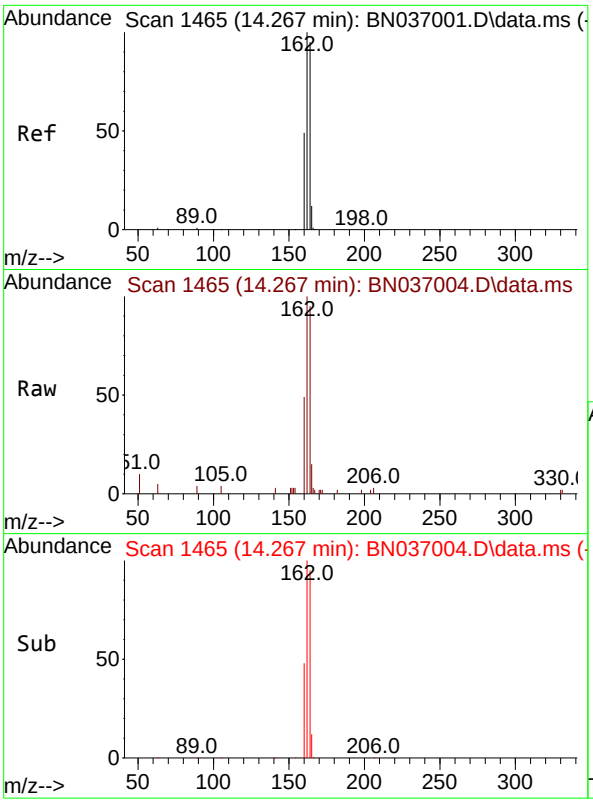


#12
2-Methylnaphthalene
Concen: 3.242 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:142 Resp: 26589

Ion	Ratio	Lower	Upper
142	100		
141	90.2	73.3	109.9
115	45.0	38.4	57.6



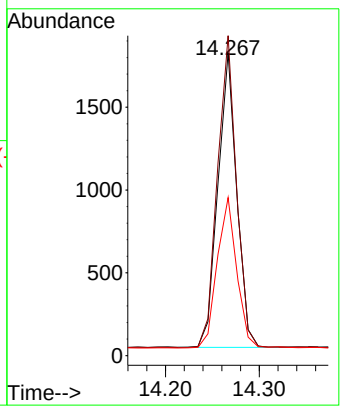


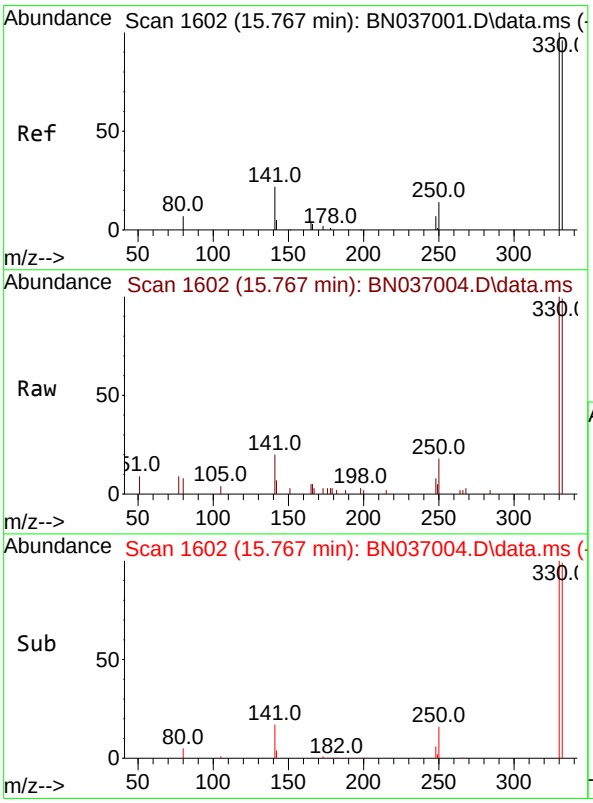
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 2482

Ion	Ratio	Lower	Upper
164	100		
162	105.6	84.2	126.4
160	52.1	42.6	63.8

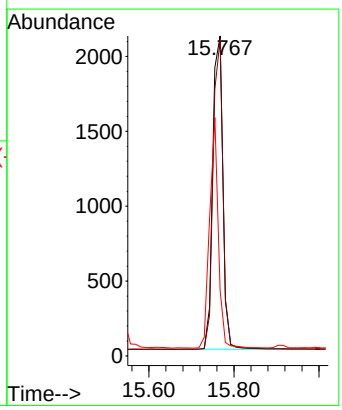


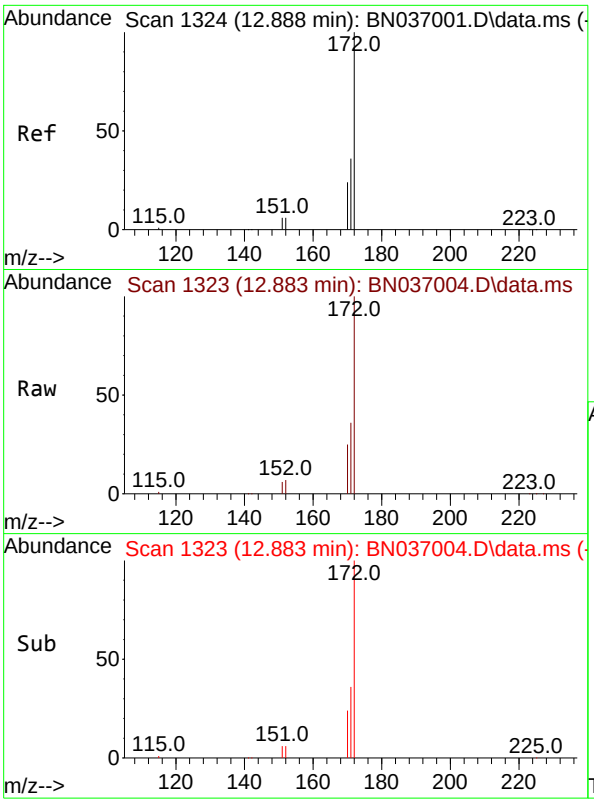


#14
2,4,6-Tribromophenol
Concen: 3.194 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:330 Resp: 3482

Ion	Ratio	Lower	Upper
330	100		
332	95.6	73.8	110.8
141	63.0	43.9	65.9



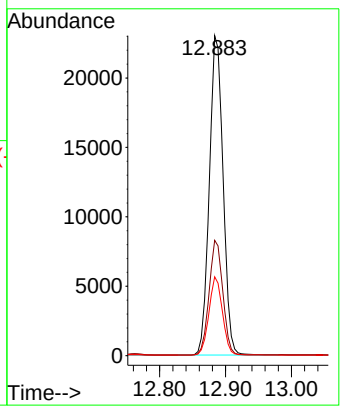


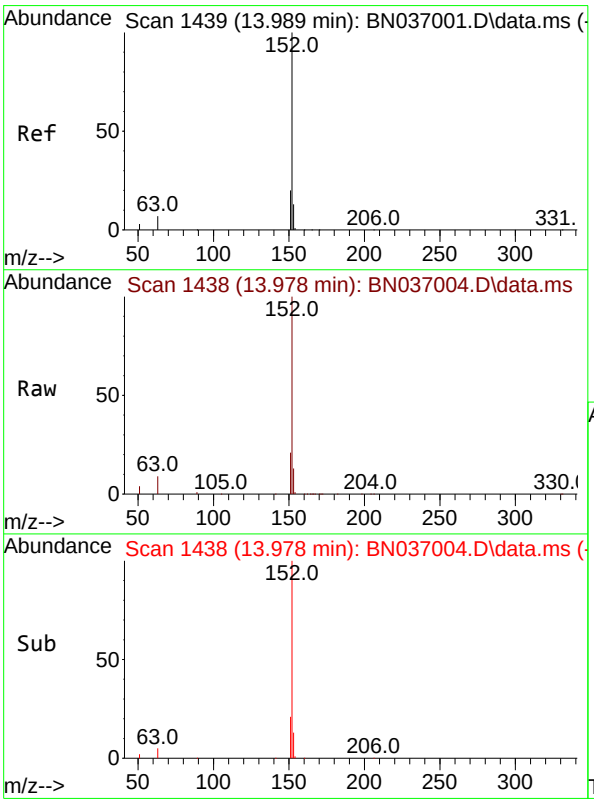
#15
2-Fluorobiphenyl
Concen: 2.921 ng
RT: 12.883 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 33203

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.2	43.8
170	24.6	20.5	30.7

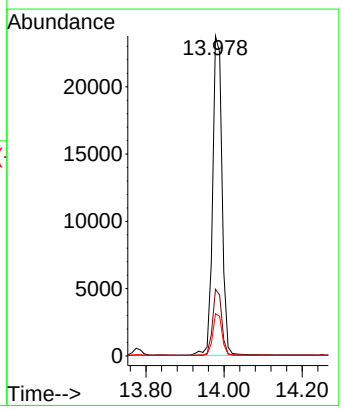


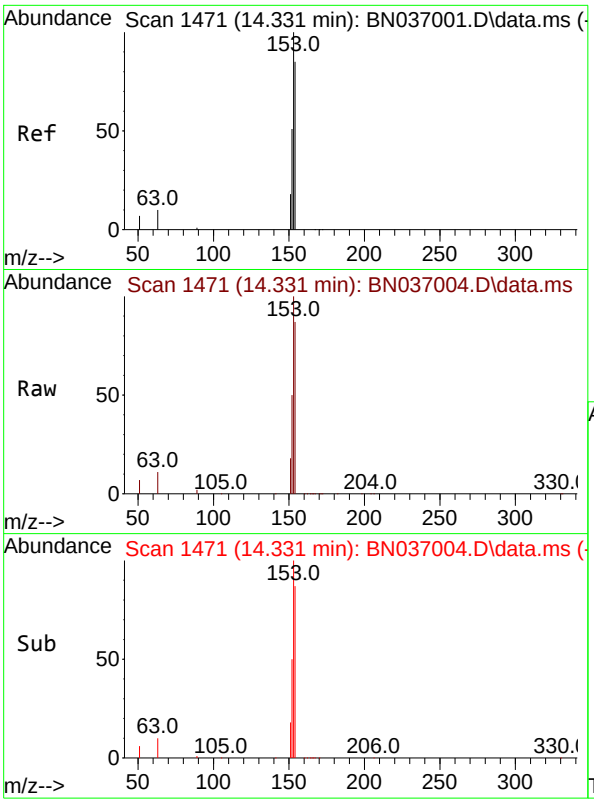


#16
Acenaphthylene
Concen: 3.282 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:152 Resp: 39649

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	12.9	10.5	15.7



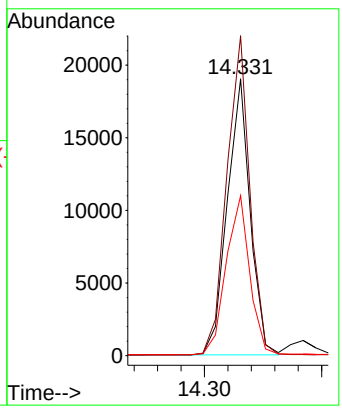


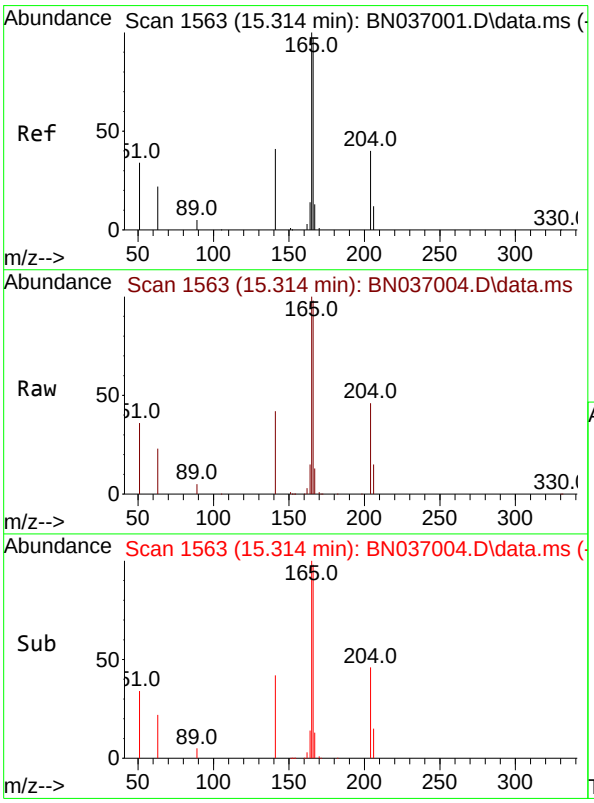
#17
Acenaphthene
Concen: 3.265 ng
RT: 14.331 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 25773

Ion	Ratio	Lower	Upper
154	100		
153	116.1	94.2	141.4
152	59.7	49.4	74.0

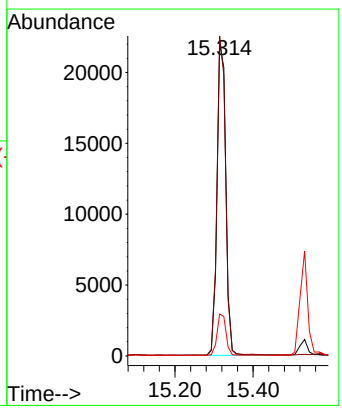


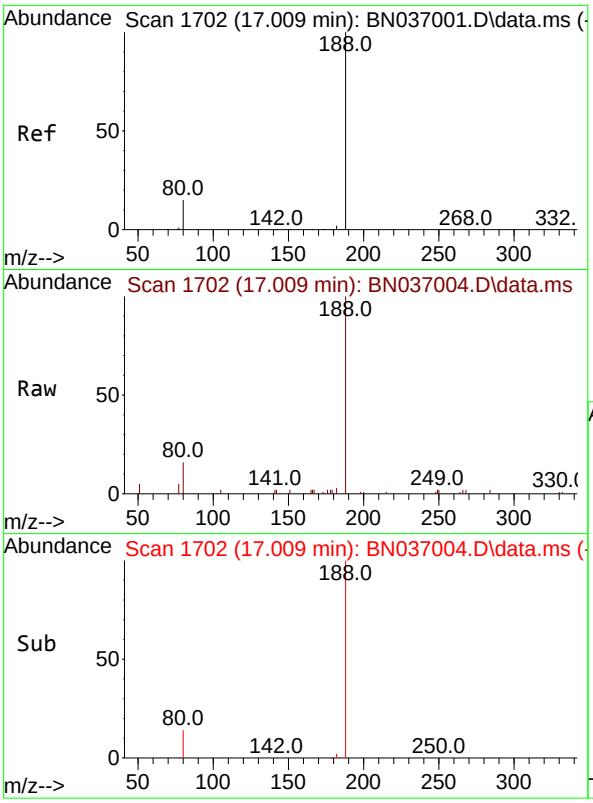


#18
Fluorene
Concen: 3.300 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:166 Resp: 34177

Ion	Ratio	Lower	Upper
166	100		
165	100.0	80.6	120.8
167	13.3	10.6	16.0



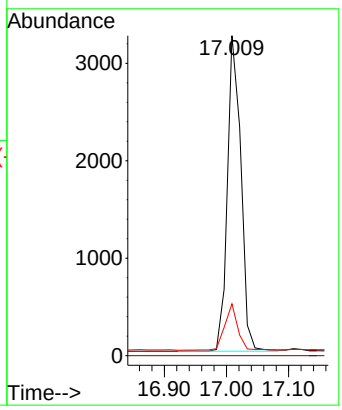


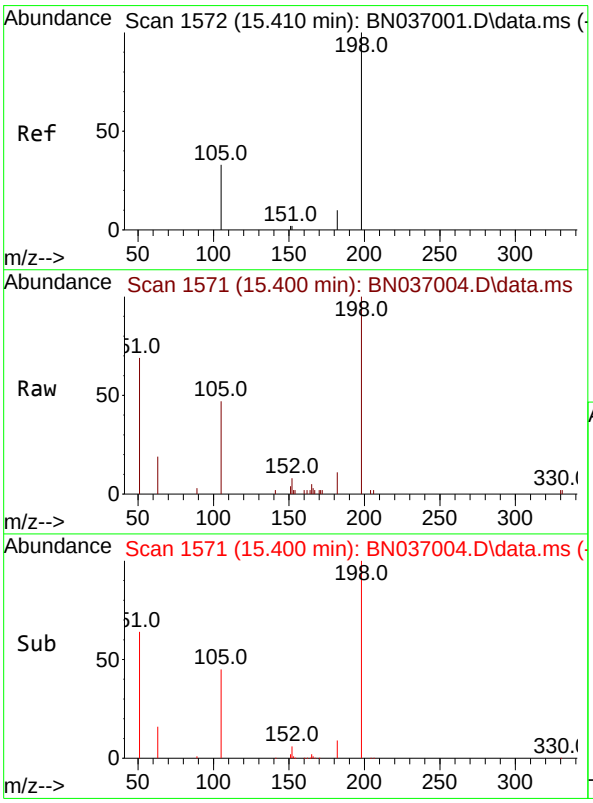
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 4870

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.2	13.4	20.0

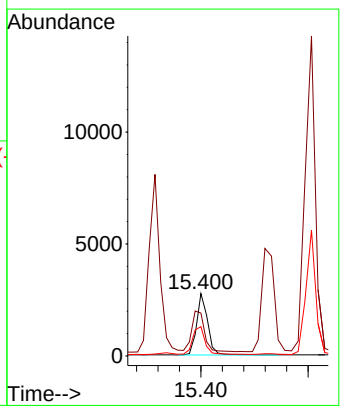


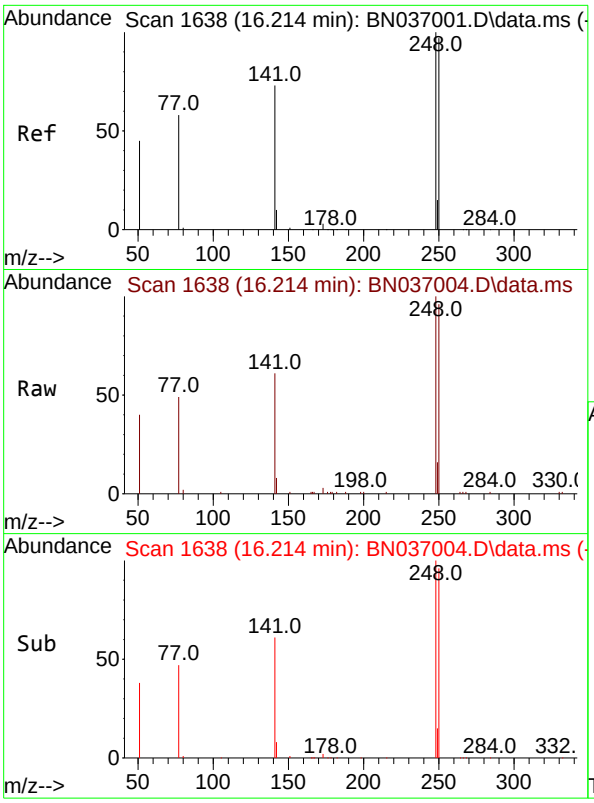


#20
4,6-Dinitro-2-methylphenol
Concen: 3.111 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:198 Resp: 4002

Ion	Ratio	Lower	Upper
198	100		
51	68.7	87.8	131.6#
105	47.0	44.2	66.4



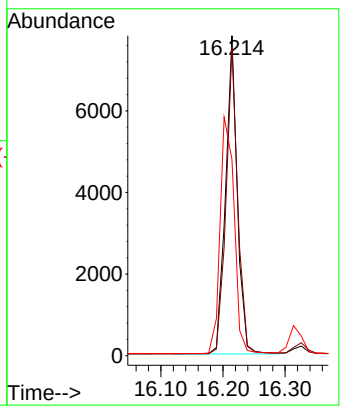


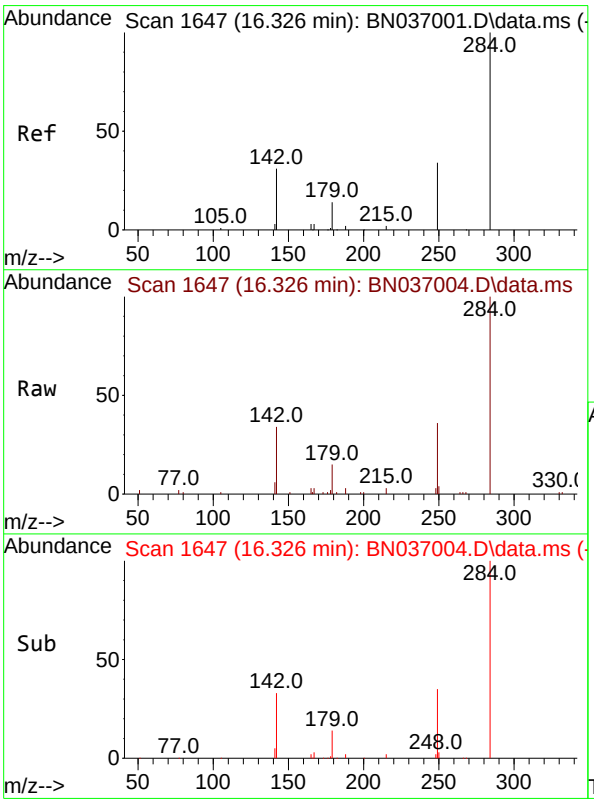
#21
4-Bromophenyl-phenylether
Concen: 3.305 ng
RT: 16.214 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 10166

Ion	Ratio	Lower	Upper
248	100		
250	96.3	78.1	117.1
141	61.3	59.7	89.5

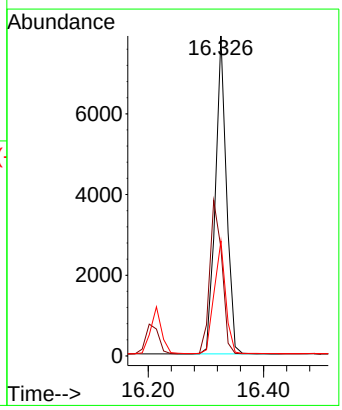


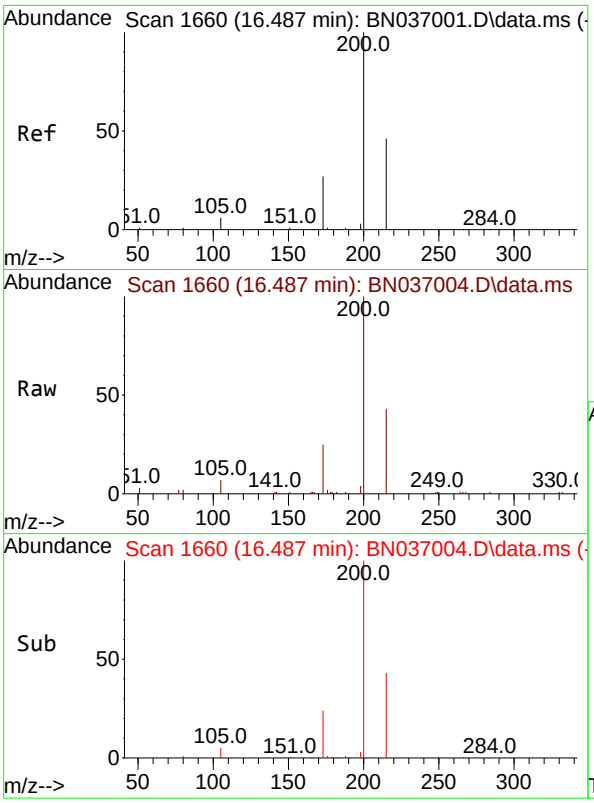


#22
Hexachlorobenzene
Concen: 3.189 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:284 Resp: 10501

Ion	Ratio	Lower	Upper
284	100		
142	52.9	41.2	61.8
249	36.7	28.7	43.1



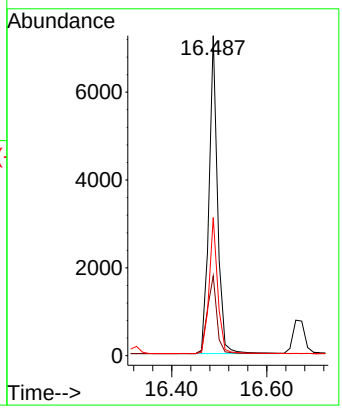


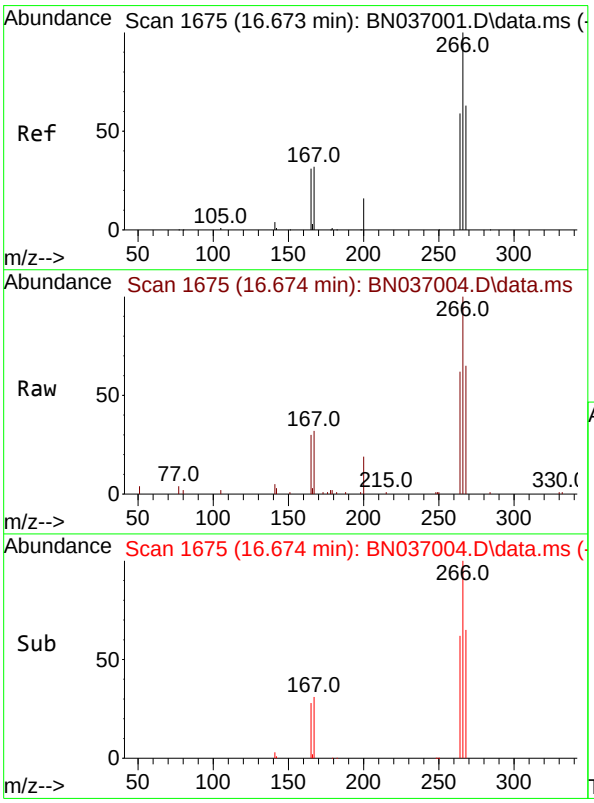
#23
Atrazine
Concen: 3.393 ng
RT: 16.487 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 9103

Ion	Ratio	Lower	Upper
200	100		
173	24.9	25.2	37.8#
215	43.2	39.3	58.9

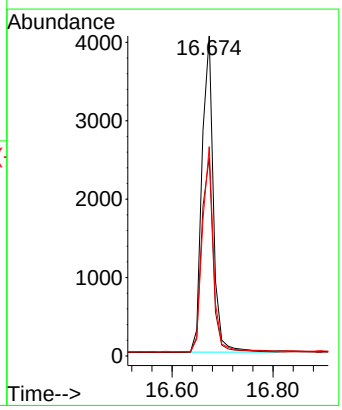


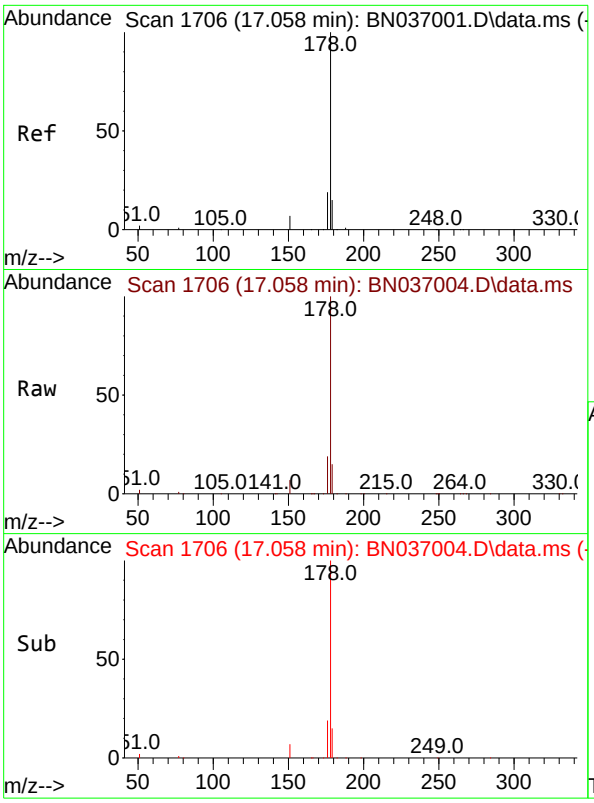


#24
Pentachlorophenol
Concen: 3.460 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:266 Resp: 6329

Ion	Ratio	Lower	Upper
266	100		
264	62.8	47.9	71.9
268	62.9	50.0	75.0



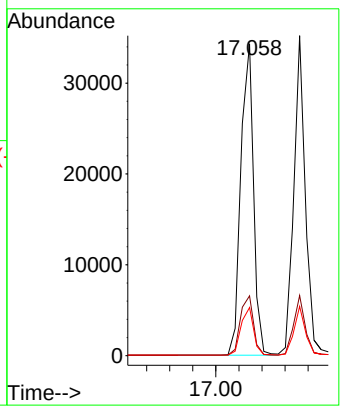


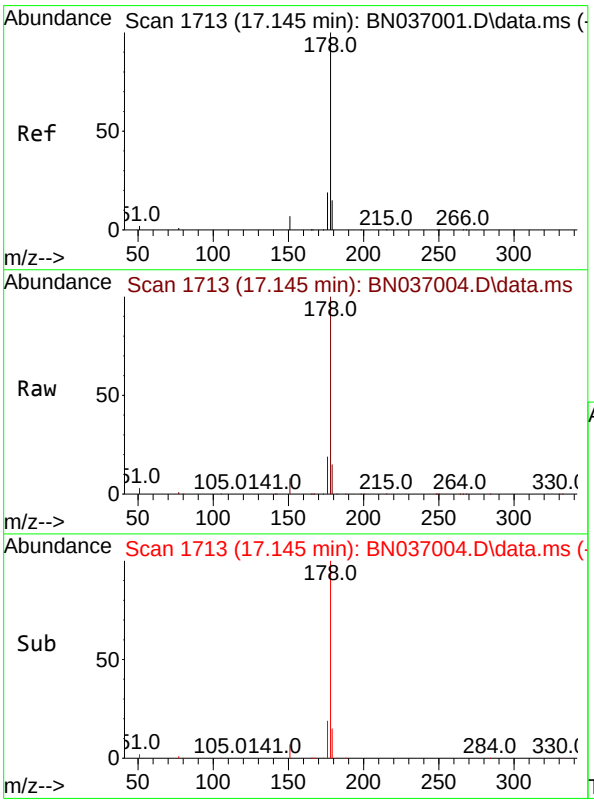
#25
Phenanthrene
Concen: 3.272 ng
RT: 17.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 52084

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.1	12.2	18.2

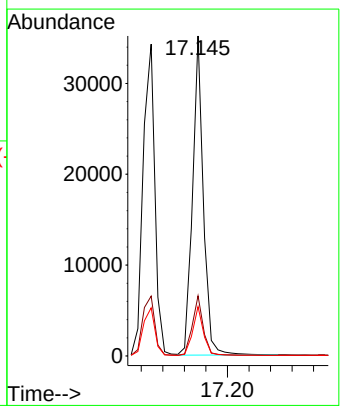


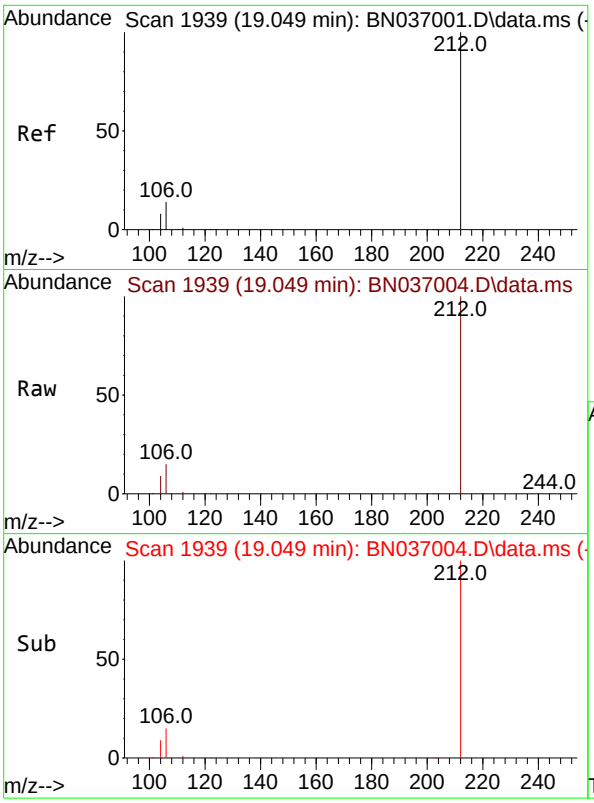


#26
Anthracene
Concen: 3.388 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:178 Resp: 49070

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.2	12.3	18.5



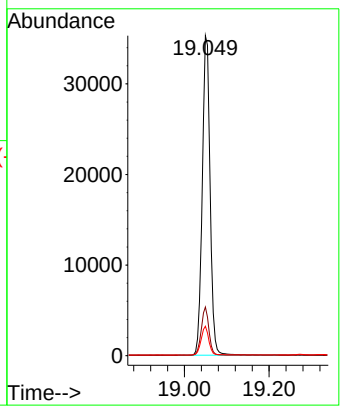


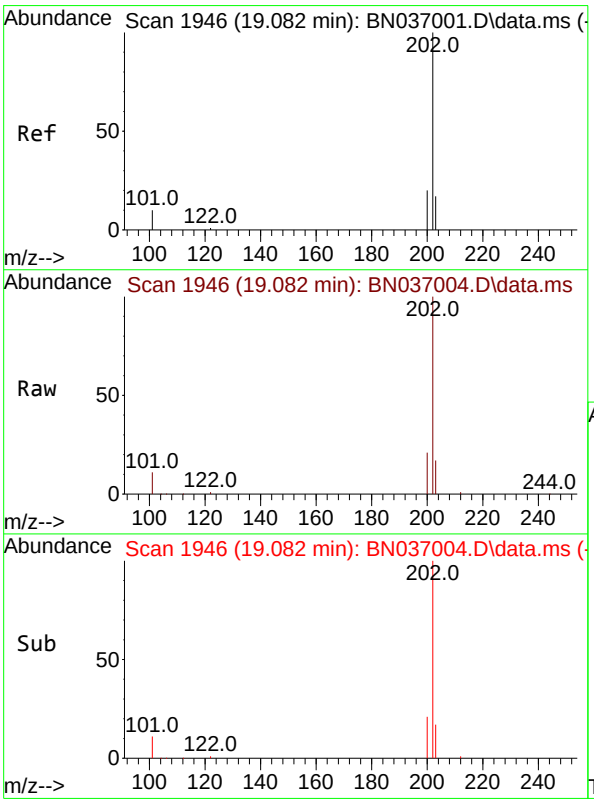
#27
Fluoranthene-d10
Concen: 3.388 ng
RT: 19.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 45238

Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.3	16.9
104	8.8	6.7	10.1

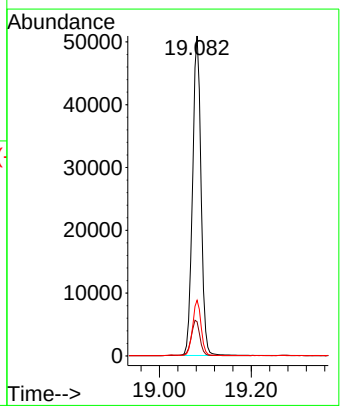


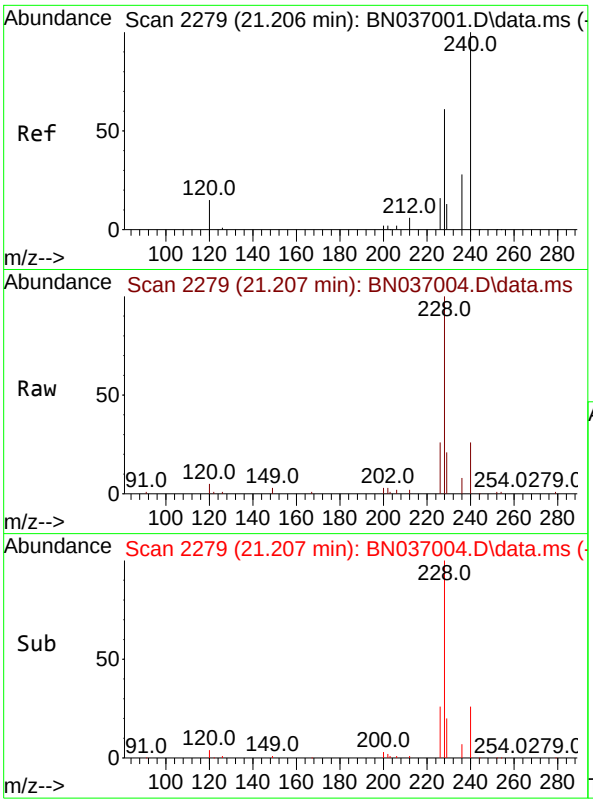


#28
Fluoranthene
Concen: 3.426 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:202 Resp: 65127

Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.9	13.3
203	17.2	13.8	20.8



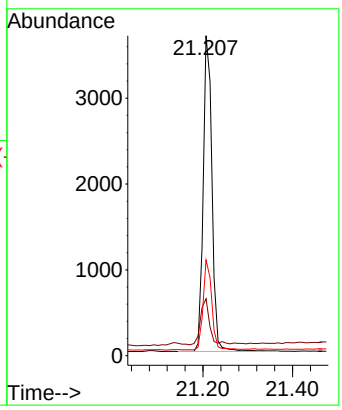


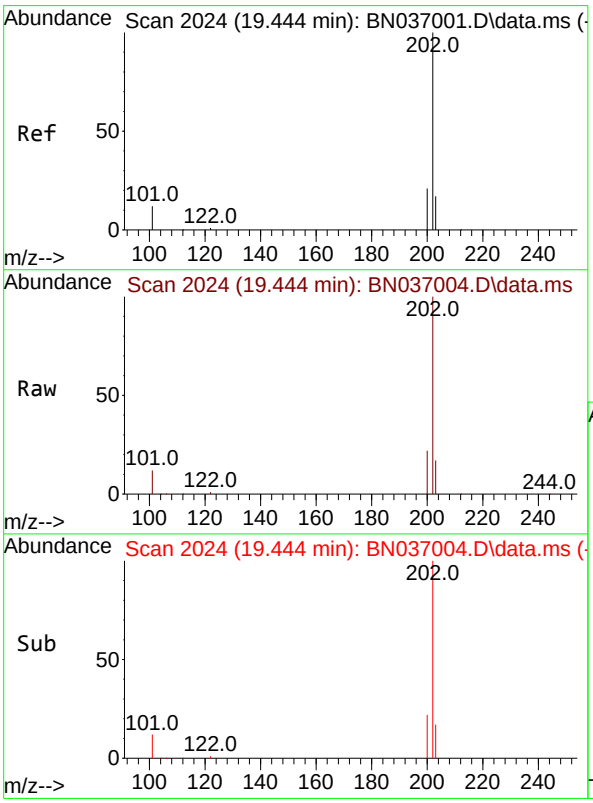
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.207 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 5021

Ion	Ratio	Lower	Upper
240	100		
120	17.8	15.1	22.7
236	29.9	24.0	36.0

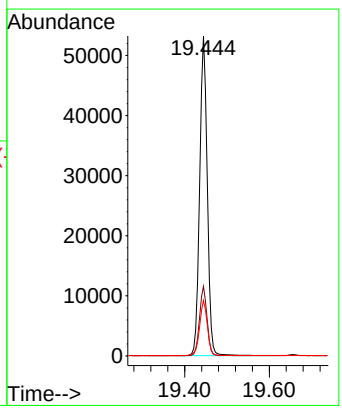


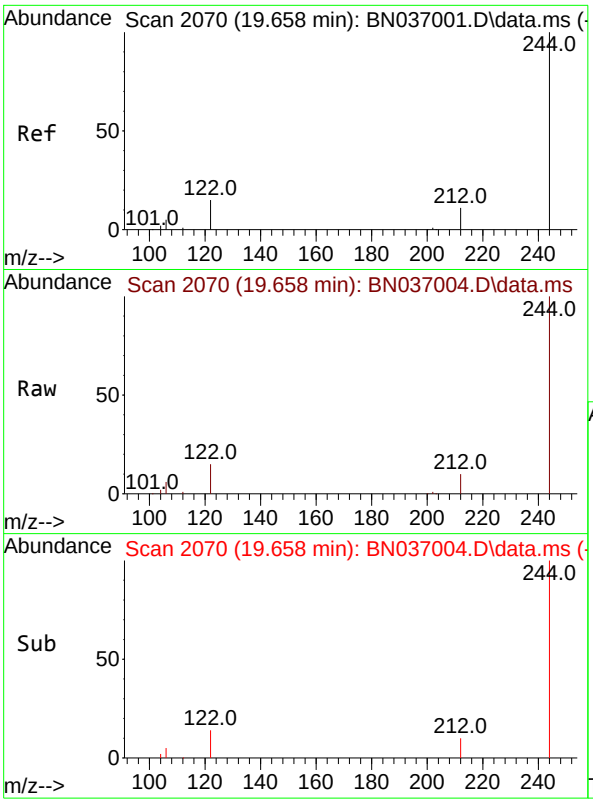


#30
Pyrene
Concen: 3.069 ng
RT: 19.444 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:202 Resp: 65923

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.8	14.2	21.4



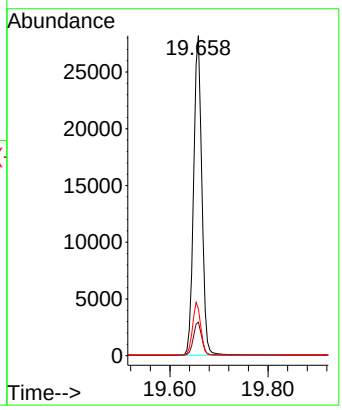


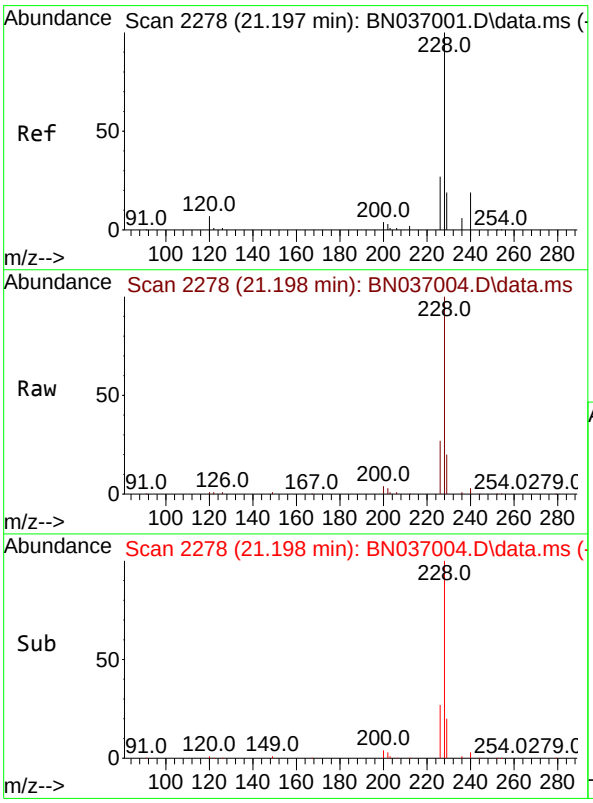
#31
Terphenyl-d14
Concen: 3.051 ng
RT: 19.658 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 32768

Ion	Ratio	Lower	Upper
244	100		
212	10.5	9.7	14.5
122	14.7	13.4	20.0

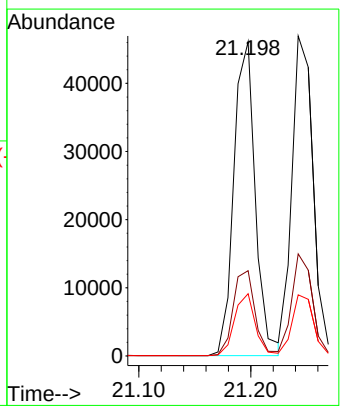


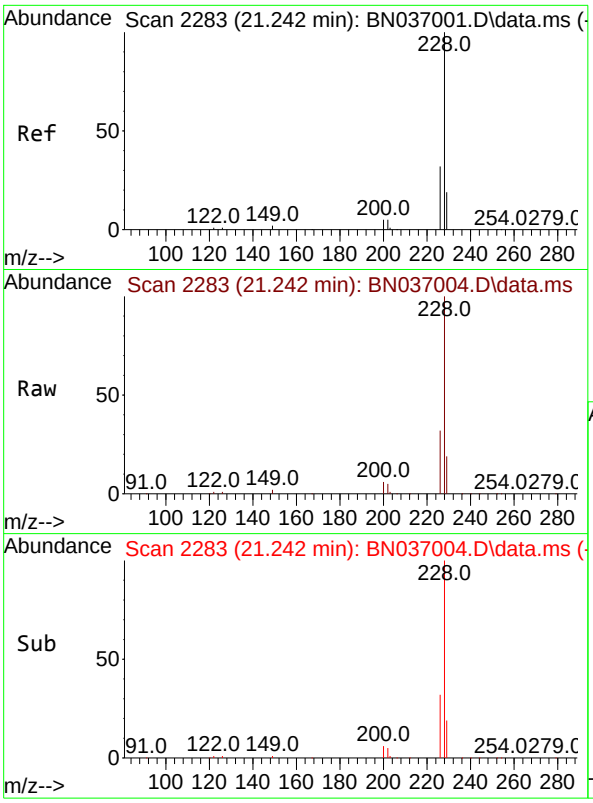


#32
Benzo(a)anthracene
Concen: 3.232 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:228 Resp: 61105

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.4
229	19.8	16.0	24.0



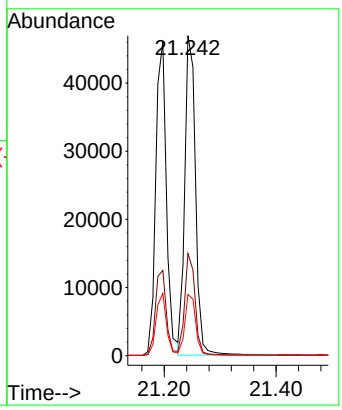


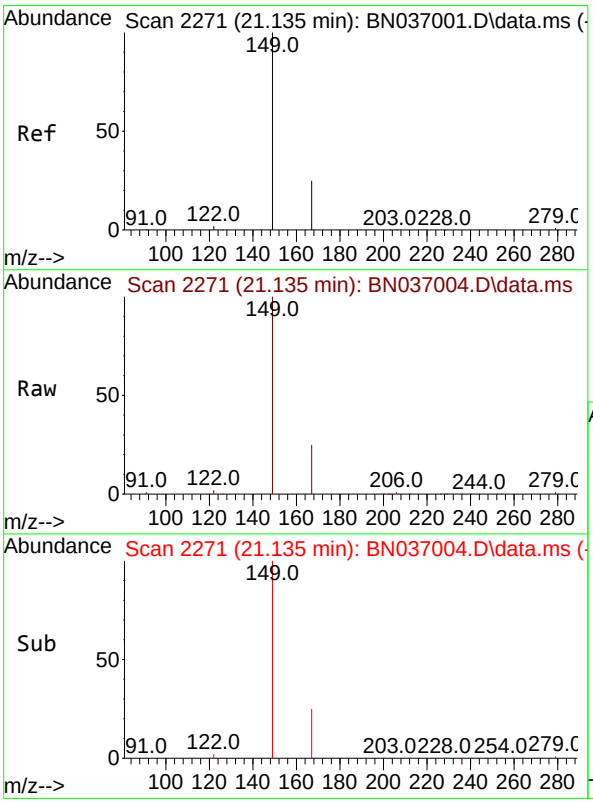
#33
Chrysene
Concen: 3.134 ng
RT: 21.242 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 62672

Ion	Ratio	Lower	Upper
228	100		
226	31.9	26.3	39.5
229	19.1	16.2	24.2

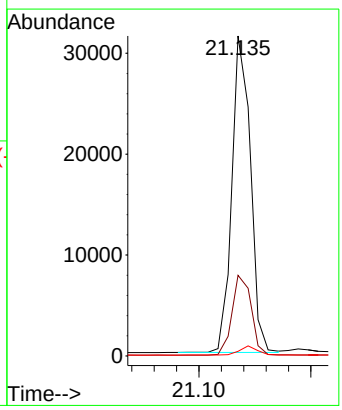


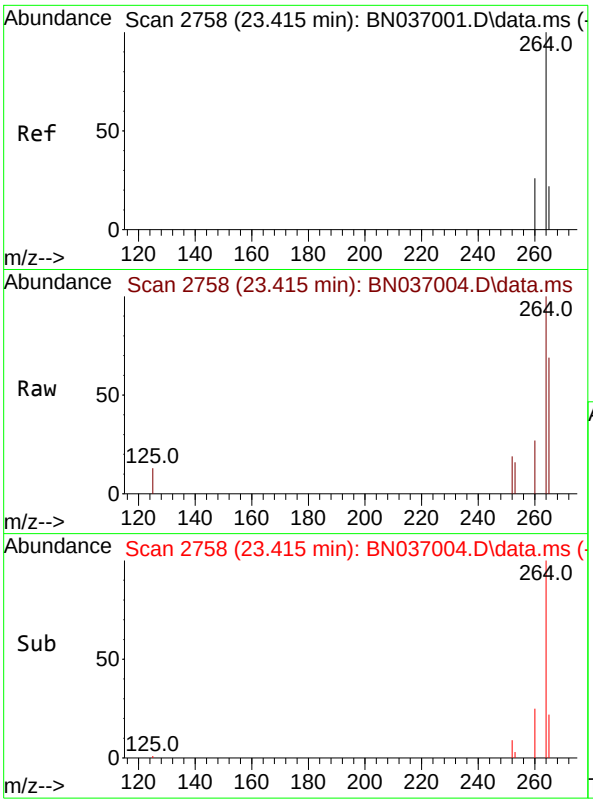


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.113 ng
RT: 21.135 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:149 Resp: 36266

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.6	30.8
279	2.7	2.6	3.8



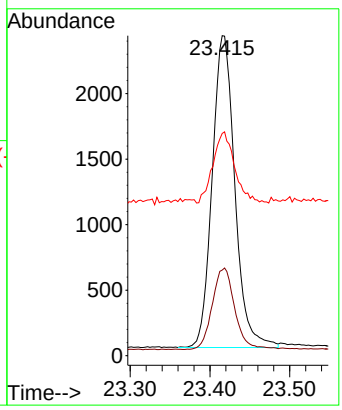


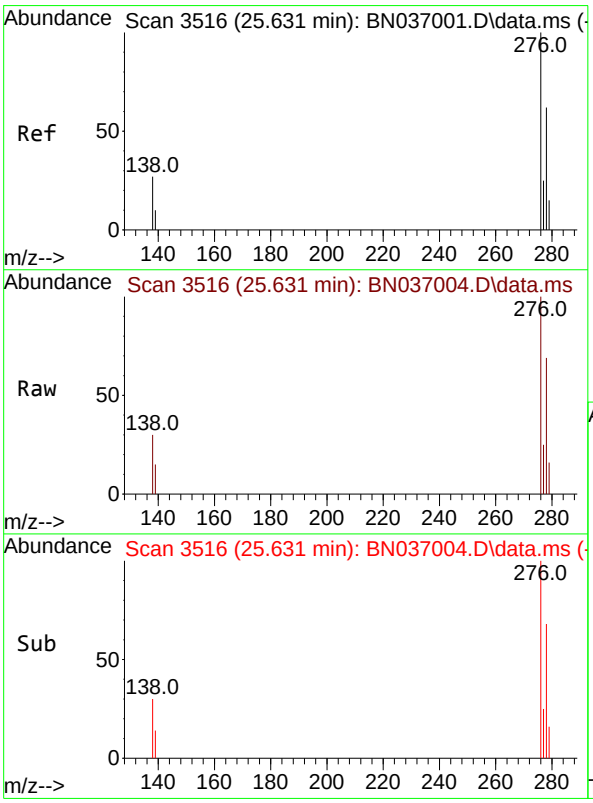
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 4705

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.9	32.9
265	69.5	51.6	77.4

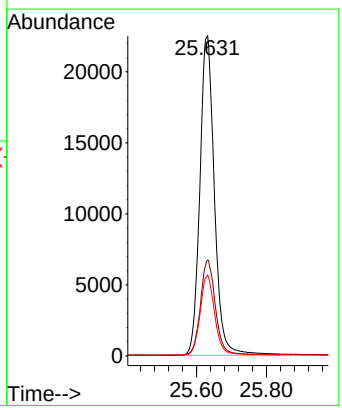


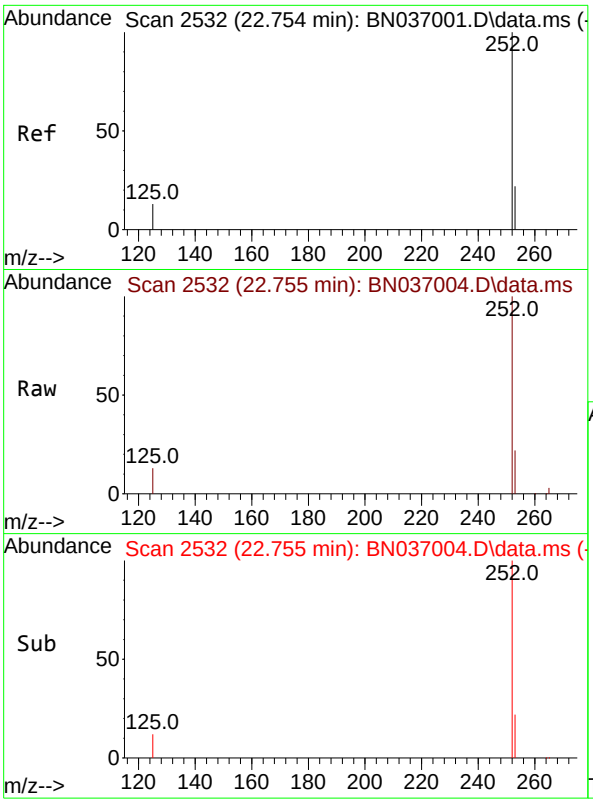


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.393 ng
RT: 25.631 min Scan# 3516
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:276 Resp: 65193

Ion	Ratio	Lower	Upper
276	100		
138	30.4	22.7	34.1
277	25.0	20.0	30.0



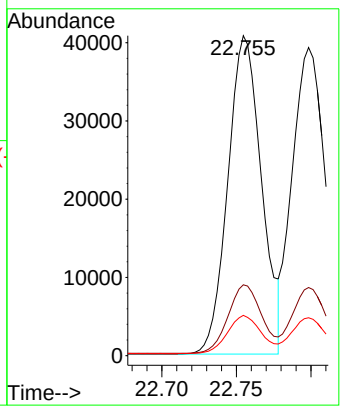


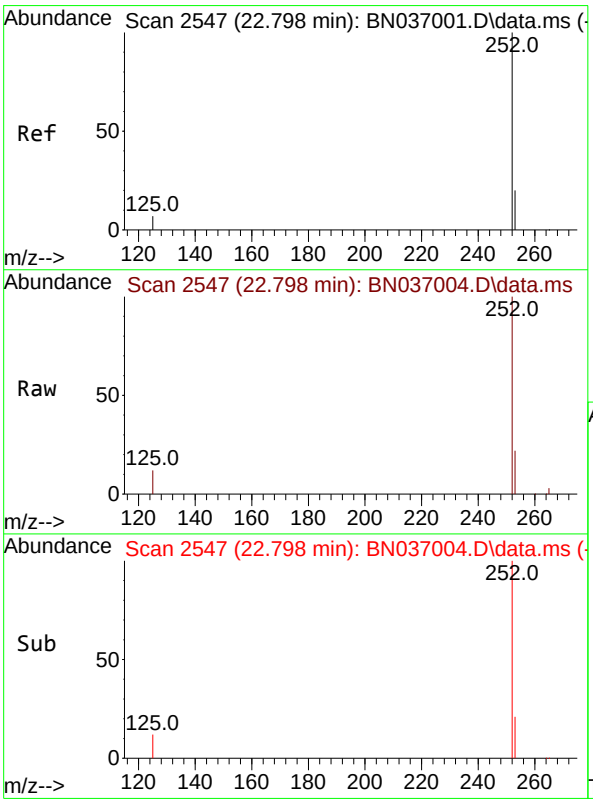
#37
Benzo(b)fluoranthene
Concen: 3.277 ng
RT: 22.755 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 63928

Ion	Ratio	Lower	Upper
252	100		
253	22.2	21.8	32.6
125	12.6	14.6	21.8#

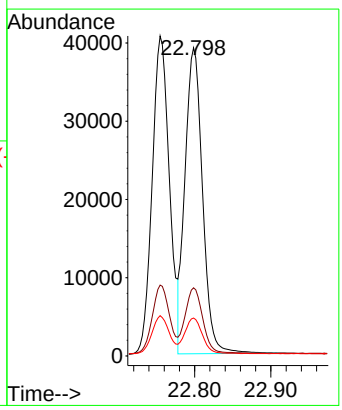


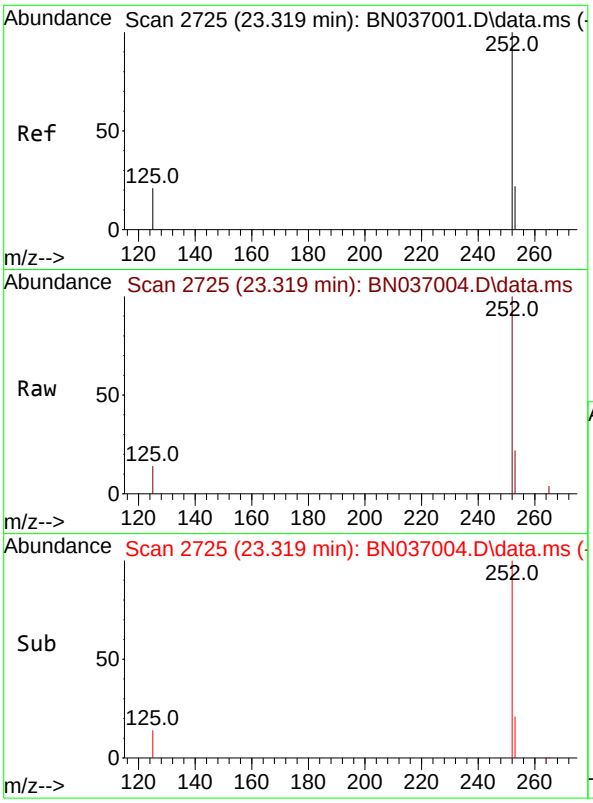


#38
Benzo(k)fluoranthene
Concen: 3.245 ng
RT: 22.798 min Scan# 2547
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:252 Resp: 62537

Ion	Ratio	Lower	Upper
252	100		
253	22.1	21.4	32.2
125	12.3	13.0	19.4#



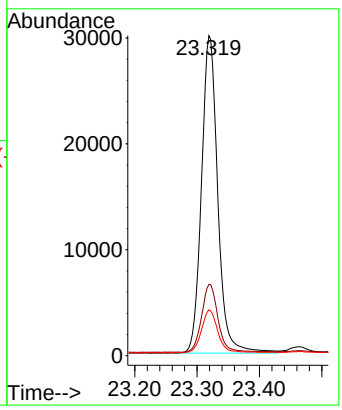


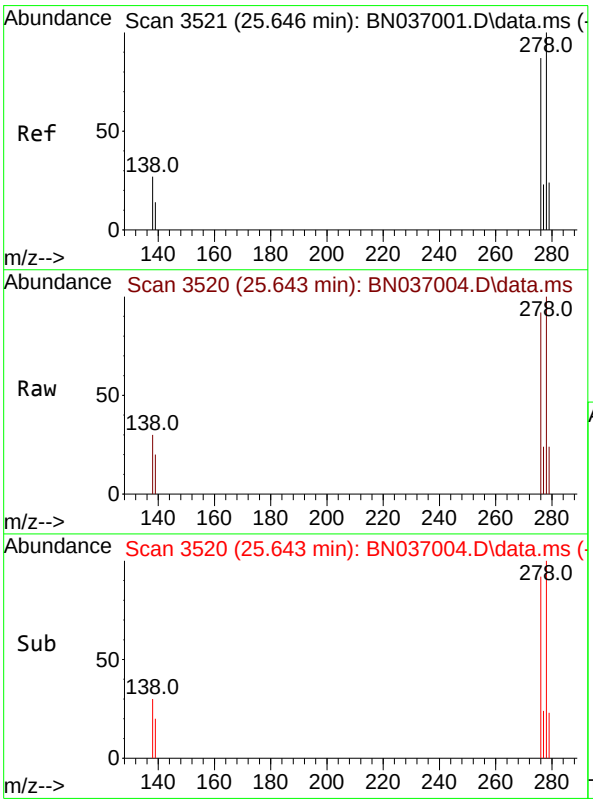
#39
Benzo(a)pyrene
Concen: 3.284 ng
RT: 23.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 54366

Ion	Ratio	Lower	Upper
252	100		
253	22.3	23.8	35.6#
125	14.4	21.8	32.6#

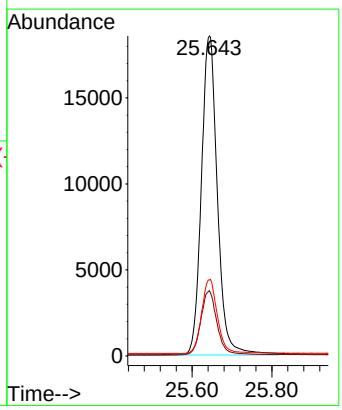


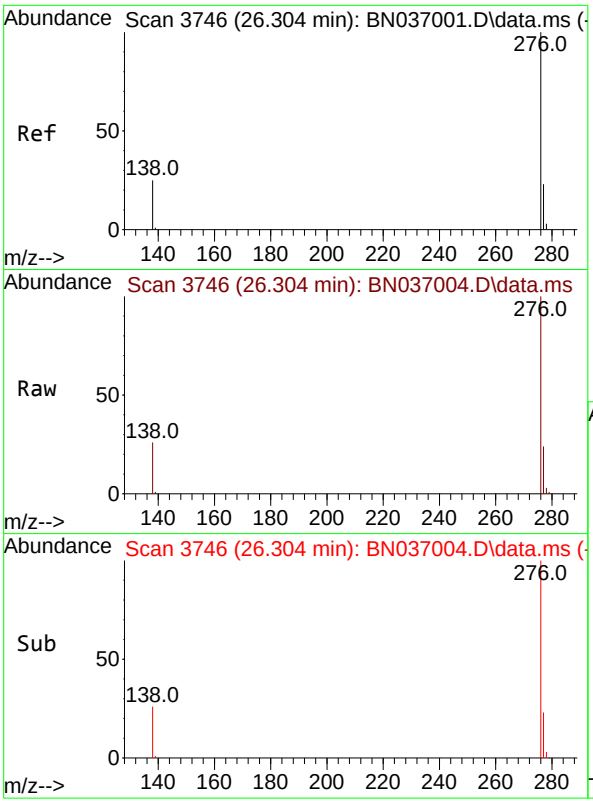


#40
Dibenzo(a,h)anthracene
Concen: 3.460 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:278 Resp: 51783

Ion	Ratio	Lower	Upper
278	100		
139	20.4	17.4	26.0
279	23.7	24.6	37.0#



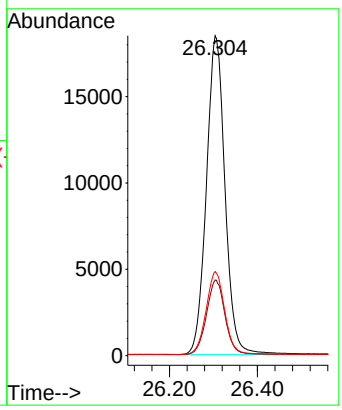


#41
Benzo(g,h,i)perylene
Concen: 3.331 ng
RT: 26.304 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 54177

Ion	Ratio	Lower	Upper
276	100		
277	23.6	20.2	30.4
138	26.3	22.0	33.0



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037005.D
Acq On : 13 May 2025 21:17
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: May 14 11:02:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

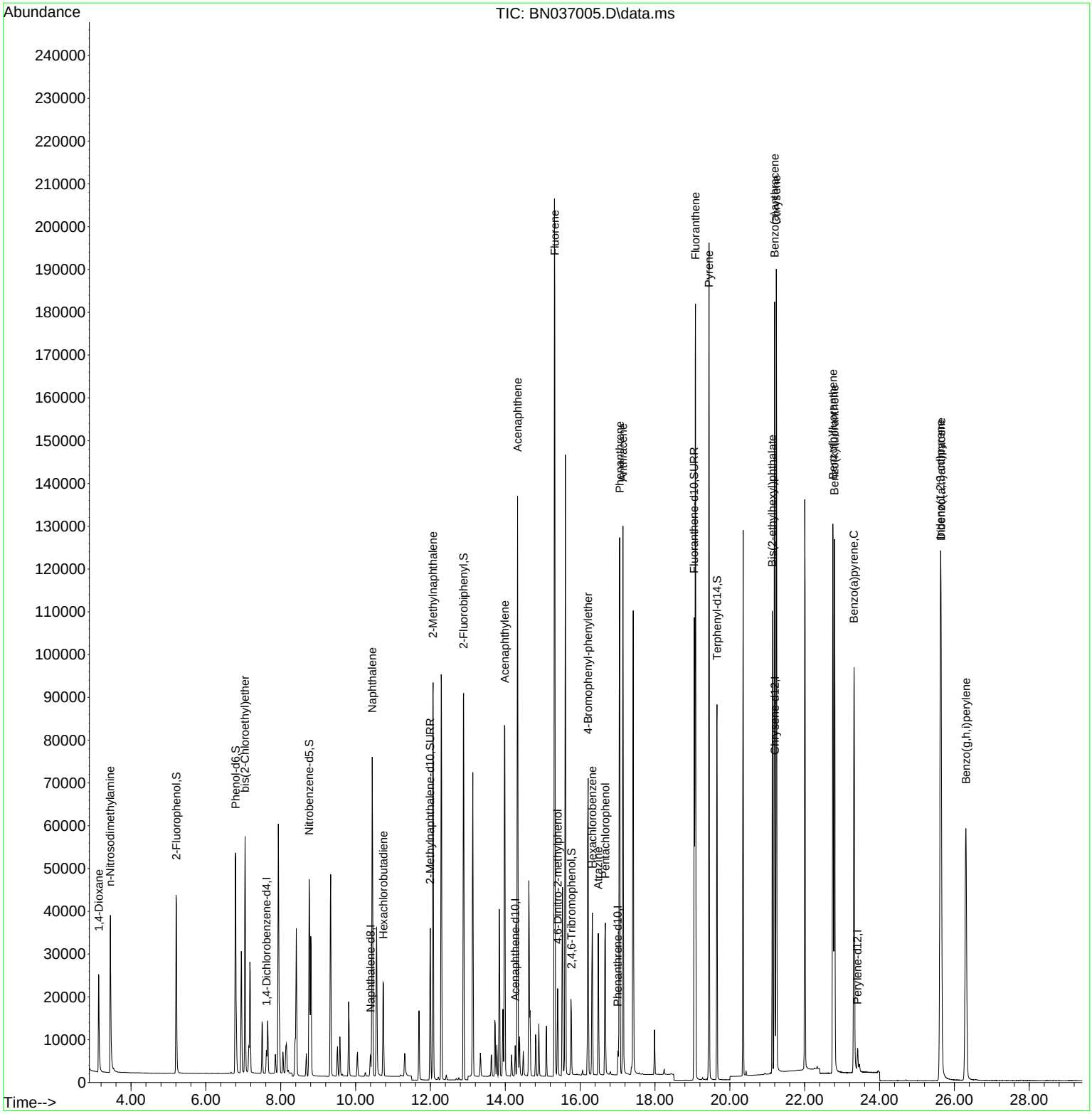
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	2402	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	6211	0.400	ng		0.00
13) Acenaphthene-d10	14.266	164	3660	0.400	ng		0.00
19) Phenanthrene-d10	17.008	188	7377	0.400	ng		0.00
29) Chrysene-d12	21.206	240	7435	0.400	ng		0.00
35) Perylene-d12	23.412	264	6657	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.213	112	29155	4.633	ng		0.00
5) Phenol-d6	6.794	99	38800	4.928	ng		0.00
8) Nitrobenzene-d5	8.760	82	34333	5.077	ng		-0.01
11) 2-Methylnaphthalene-d10	11.995	152	45677	5.225	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	8654	5.383	ng		0.00
15) 2-Fluorobiphenyl	12.888	172	82658	4.932	ng		0.00
27) Fluoranthene-d10	19.049	212	108672	5.372	ng		0.00
31) Terphenyl-d14	19.658	244	78766	4.953	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.140	88	13630	4.624	ng		98
3) n-Nitrosodimethylamine	3.443	42	28520	4.504	ng	#	95
6) bis(2-Chloroethyl)ether	7.047	93	34458	4.755	ng		99
9) Naphthalene	10.447	128	90412	4.926	ng		96
10) Hexachlorobutadiene	10.745	225	18076	4.692	ng	#	100
12) 2-Methylnaphthalene	12.072	142	61370	5.199	ng		98
16) Acenaphthylene	13.988	152	94911	5.328	ng		100
17) Acenaphthene	14.330	154	60171	5.169	ng		97
18) Fluorene	15.325	166	80175	5.250	ng		99
20) 4,6-Dinitro-2-methylph...	15.399	198	11401	5.020	ng	#	77
21) 4-Bromophenyl-phenylether	16.214	248	23877	5.124	ng		93
22) Hexachlorobenzene	16.325	284	24597	4.931	ng		100
23) Atrazine	16.487	200	22281	5.483	ng		91
24) Pentachlorophenol	16.673	266	16300	5.883	ng		97
25) Phenanthrene	17.058	178	125493	5.205	ng		100
26) Anthracene	17.145	178	119884	5.464	ng		100
28) Fluoranthene	19.081	202	156131	5.421	ng		99
30) Pyrene	19.444	202	159039	5.001	ng		100
32) Benzo(a)anthracene	21.197	228	149524	5.341	ng		99
33) Chrysene	21.242	228	146457	4.946	ng		98
34) Bis(2-ethylhexyl)phtha...	21.134	149	93938	5.445	ng		99
36) Indeno(1,2,3-cd)pyrene	25.628	276	139772	5.141	ng		97
37) Benzo(b)fluoranthene	22.754	252	146896	5.323	ng	#	89
38) Benzo(k)fluoranthene	22.798	252	143001	5.244	ng	#	90
39) Benzo(a)pyrene	23.318	252	123679	5.280	ng	#	80
40) Dibenzo(a,h)anthracene	25.643	278	111001	5.241	ng	#	91
41) Benzo(g,h,i)perylene	26.309	276	114459	4.975	ng		98

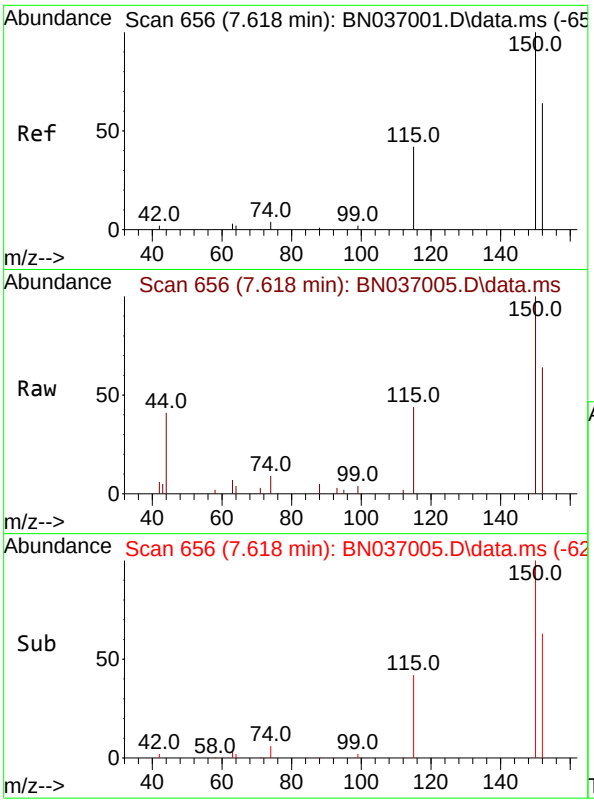
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037005.D
Acq On : 13 May 2025 21:17
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: May 14 11:02:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



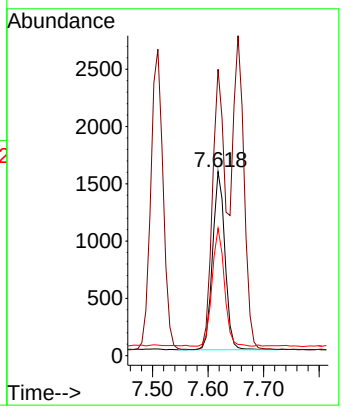


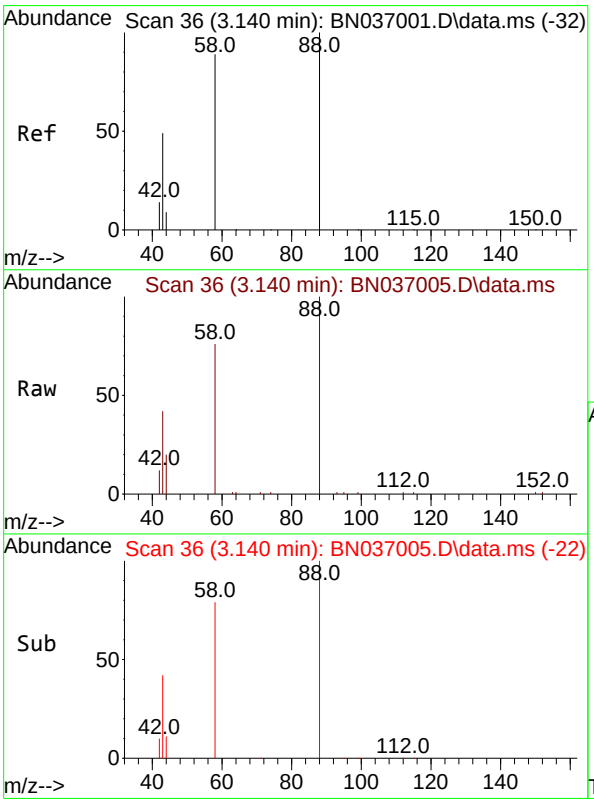
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2402

Ion	Ratio	Lower	Upper
152	100		
150	155.6	123.9	185.9
115	69.1	55.8	83.8

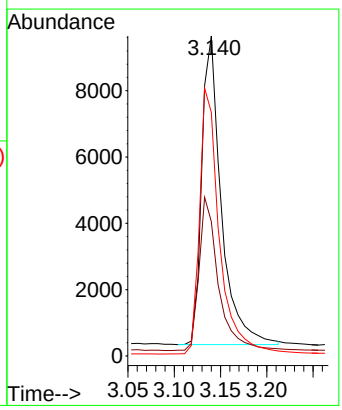


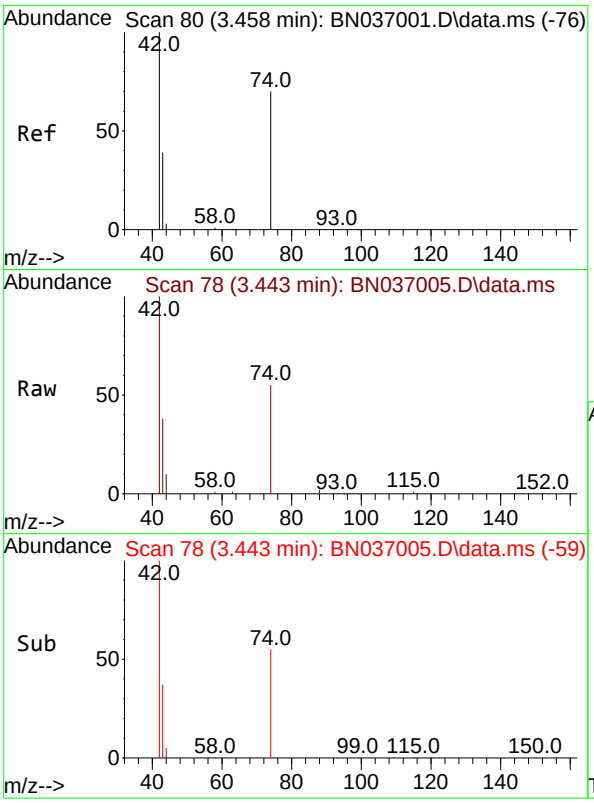


#2
1,4-Dioxane
Concen: 4.624 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion: 88 Resp: 13630

Ion	Ratio	Lower	Upper
88	100		
43	49.2	37.4	56.0
58	87.5	68.8	103.2



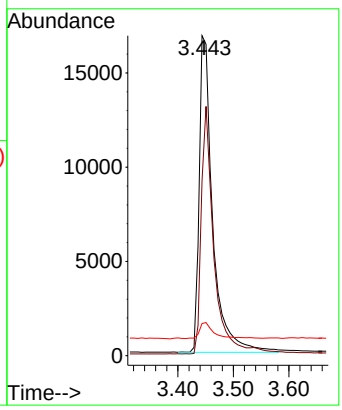


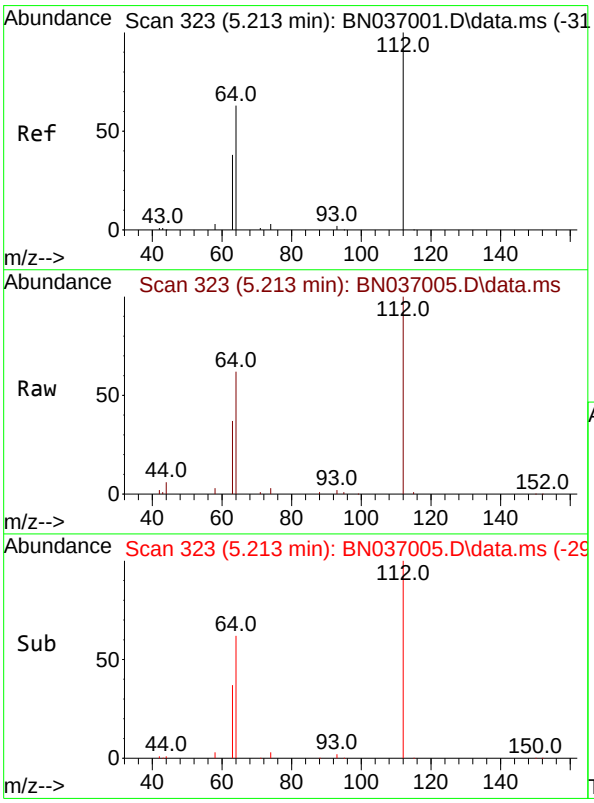
#3
n-Nitrosodimethylamine
Concen: 4.504 ng
RT: 3.443 min Scan# 7
Delta R.T. -0.015 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 28520

Ion	Ratio	Lower	Upper
42	100		
74	73.2	59.8	89.6
44	5.5	11.9	17.9#

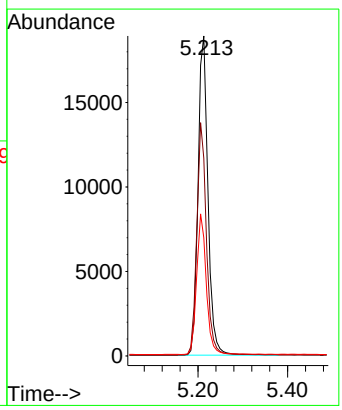


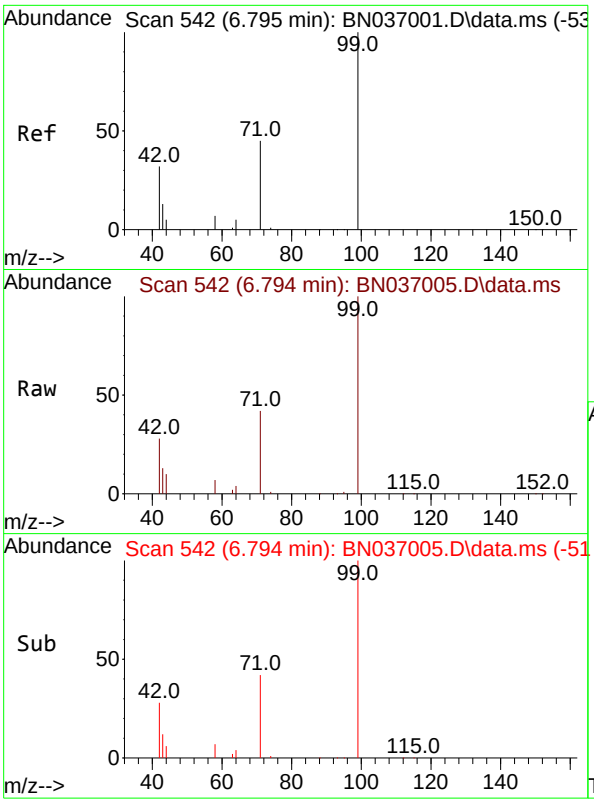


#4
2-Fluorophenol
Concen: 4.633 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:112 Resp: 29155

Ion	Ratio	Lower	Upper
112	100		
64	70.8	55.7	83.5
63	42.9	34.6	51.8



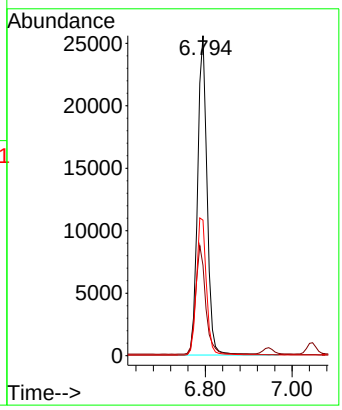


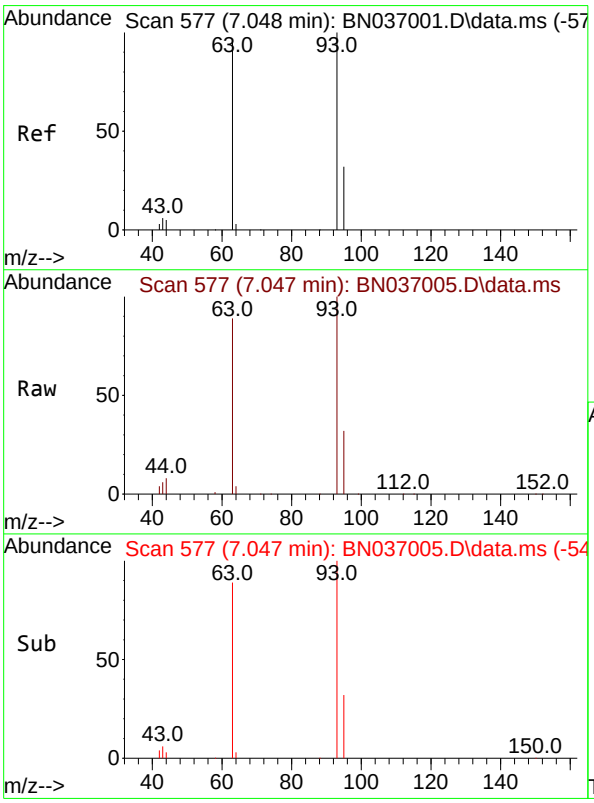
#5
Phenol-d6
Concen: 4.928 ng
RT: 6.794 min Scan# 54
Delta R.T. -0.001 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 38800

Ion	Ratio	Lower	Upper
99	100		
42	35.9	29.3	43.9
71	45.2	35.7	53.5

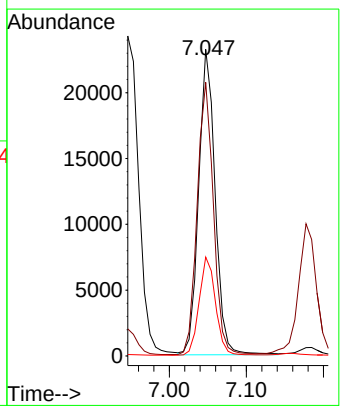


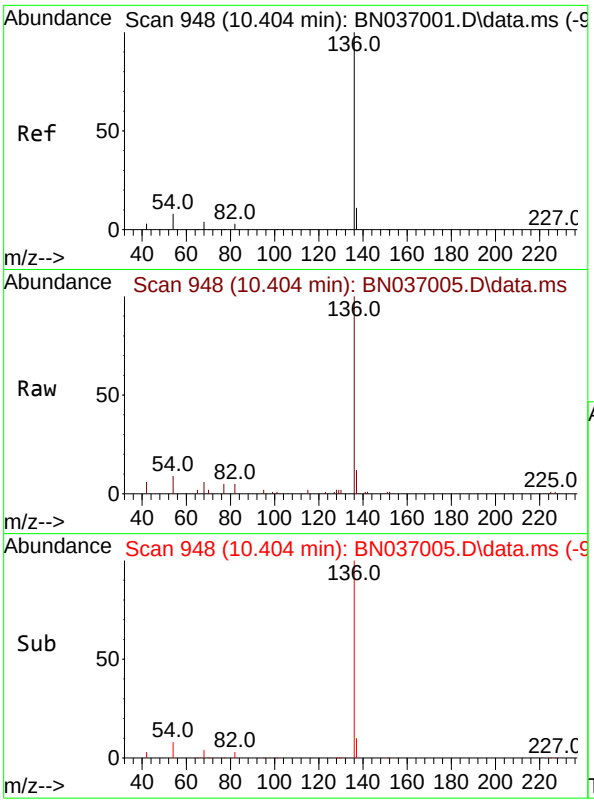


#6
bis(2-Chloroethyl)ether
Concen: 4.755 ng
RT: 7.047 min Scan# 577
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion: 93 Resp: 34458

Ion	Ratio	Lower	Upper
93	100		
63	88.0	70.1	105.1
95	32.1	26.2	39.2



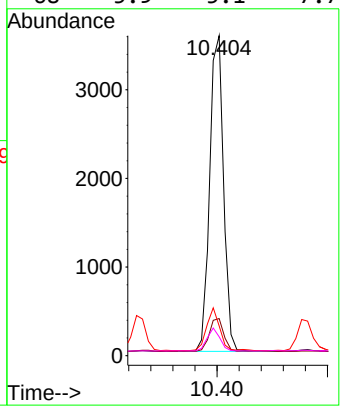


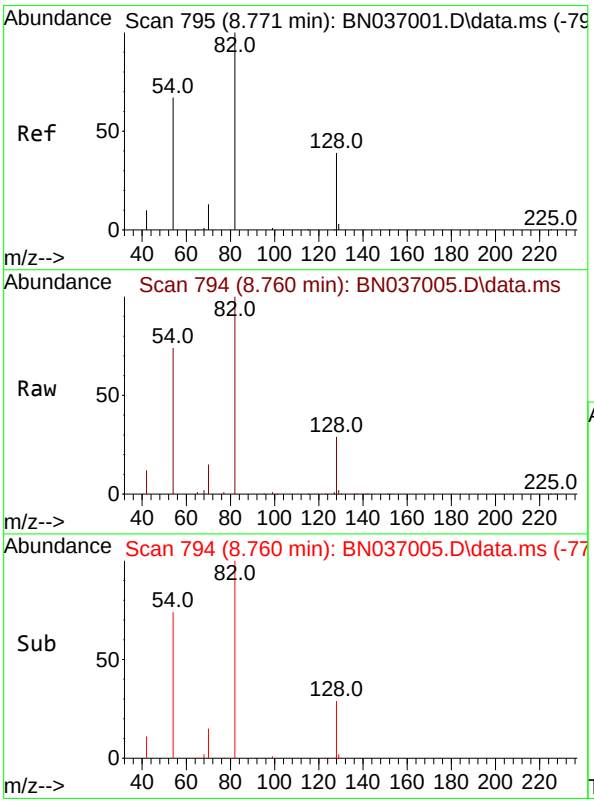
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 6211

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.4	15.6
54	9.3	8.5	12.7
68	5.9	5.1	7.7

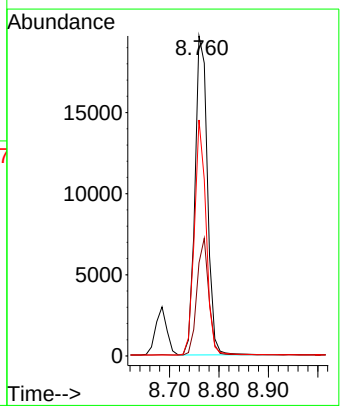


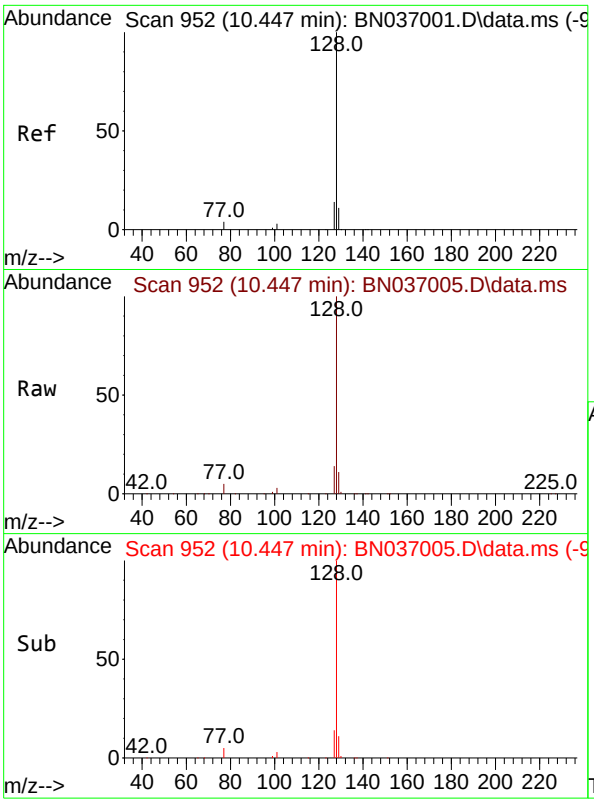


#8
Nitrobenzene-d5
Concen: 5.077 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion: 82 Resp: 34333

Ion	Ratio	Lower	Upper
82	100		
128	29.1	34.0	51.0#
54	73.7	55.0	82.4



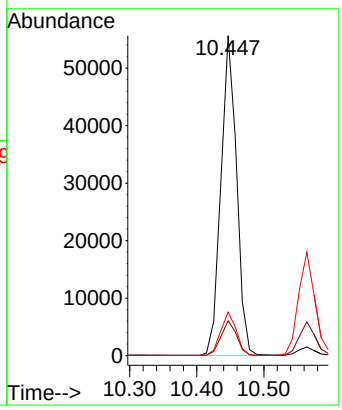


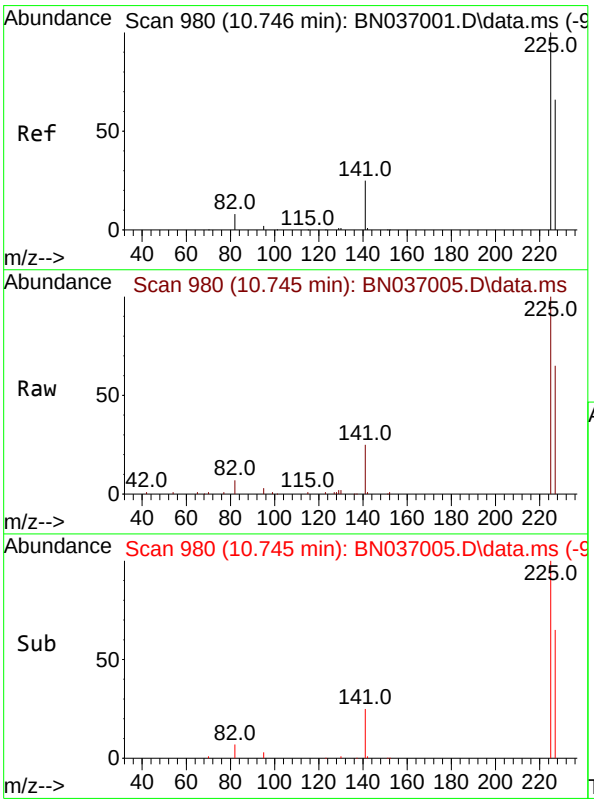
#9
Naphthalene
Concen: 4.926 ng
RT: 10.447 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 90412

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.7	14.5
127	13.6	12.4	18.6

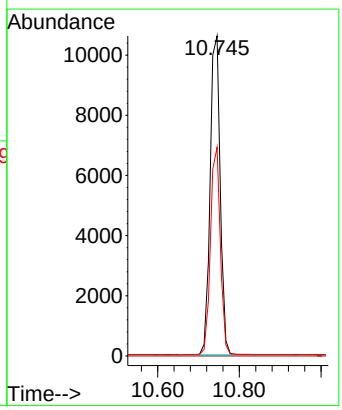


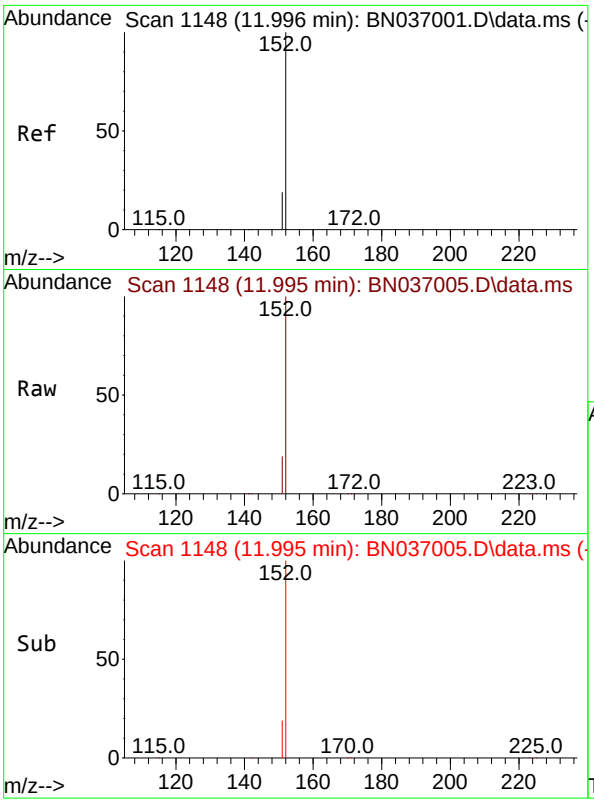


#10
Hexachlorobutadiene
Concen: 4.692 ng
RT: 10.745 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:225 Resp: 18076

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.9	76.3



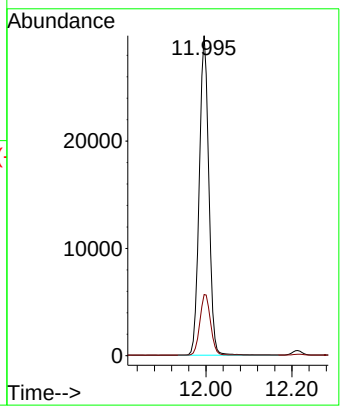


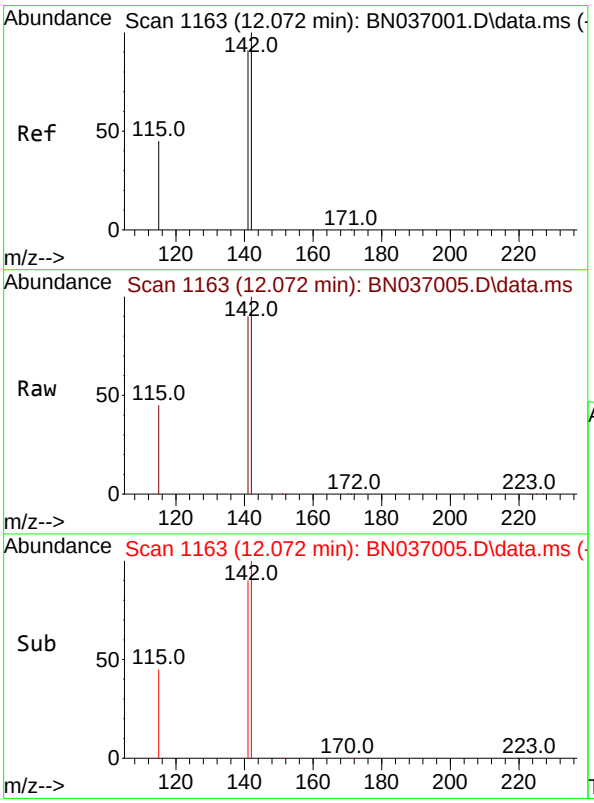
#11
2-Methylnaphthalene-d10
Concen: 5.225 ng
RT: 11.995 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 45677

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.5	26.3

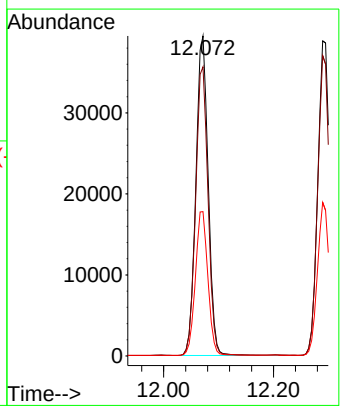


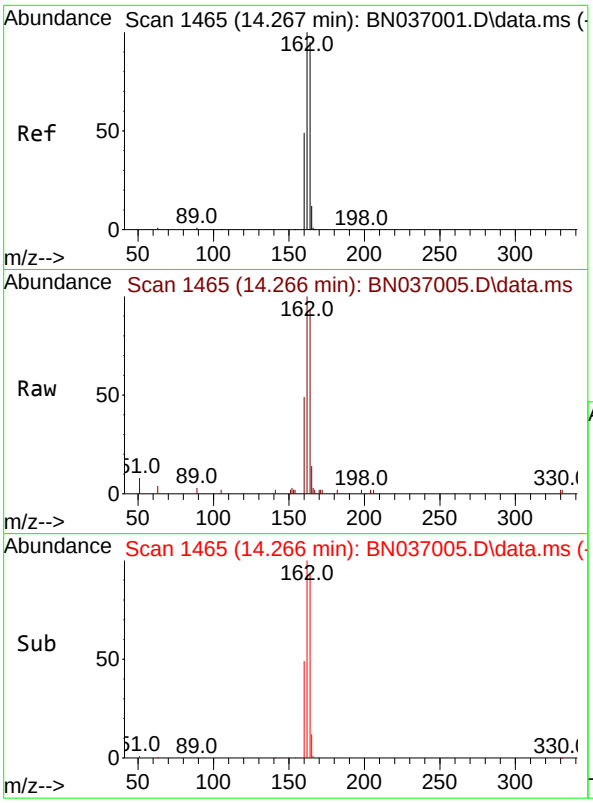


#12
2-Methylnaphthalene
Concen: 5.199 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:142 Resp: 61370

Ion	Ratio	Lower	Upper
142	100		
141	90.3	73.3	109.9
115	45.1	38.4	57.6



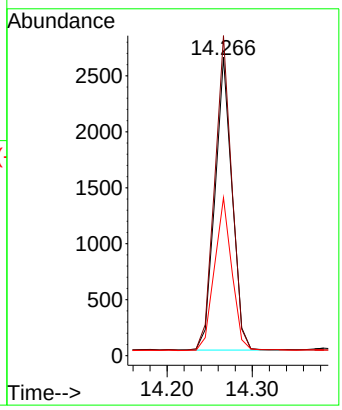


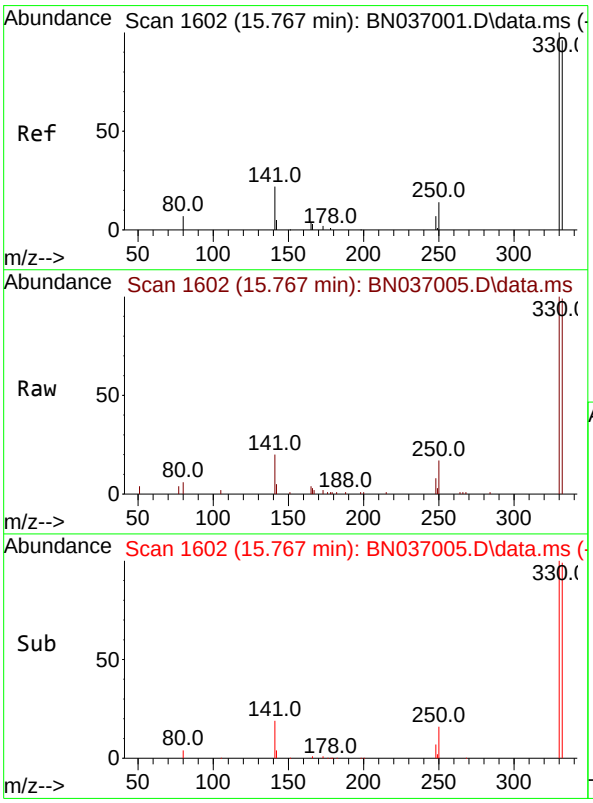
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 3660

Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.4
160	52.9	42.6	63.8

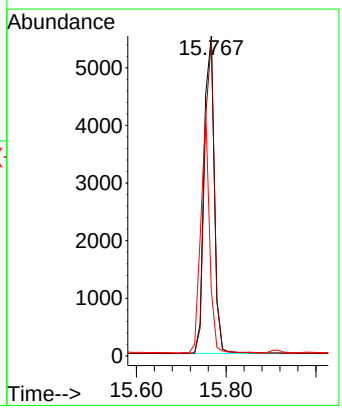


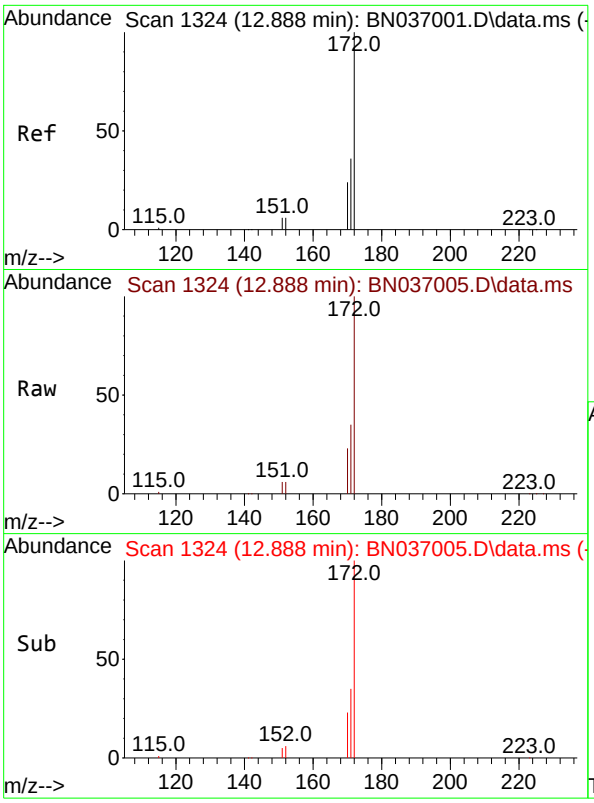


#14
2,4,6-Tribromophenol
Concen: 5.383 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:330 Resp: 8654

Ion	Ratio	Lower	Upper
330	100		
332	95.7	73.8	110.8
141	65.8	43.9	65.9



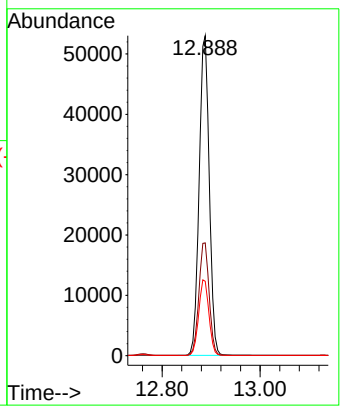


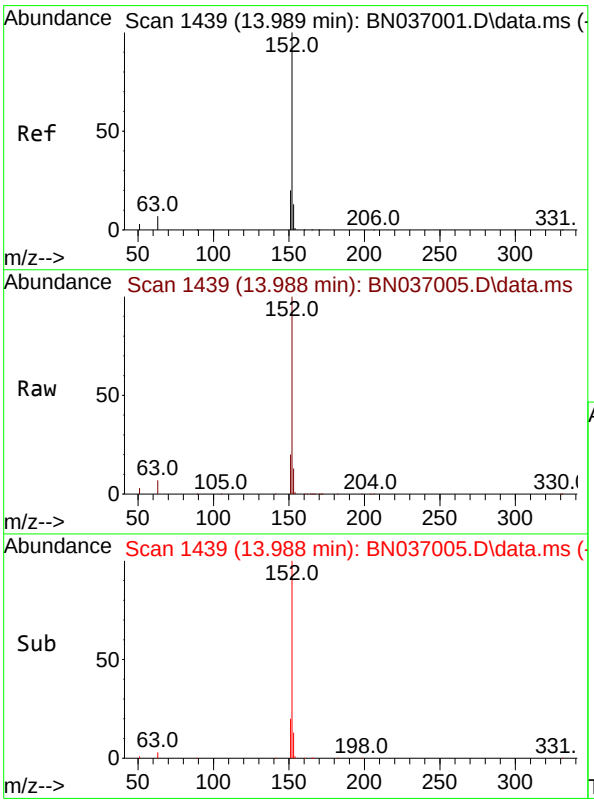
#15
2-Fluorobiphenyl
Concen: 4.932 ng
RT: 12.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 82658

Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.2	43.8
170	23.3	20.5	30.7

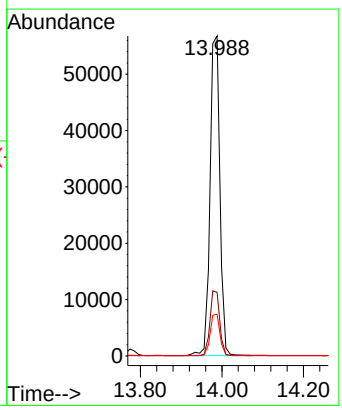


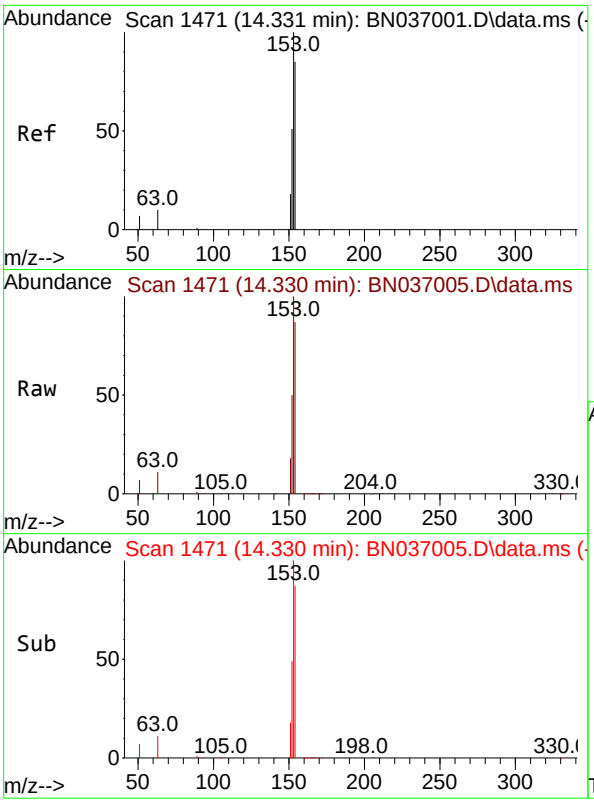


#16
Acenaphthylene
Concen: 5.328 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:152 Resp: 94911

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	12.9	10.5	15.7



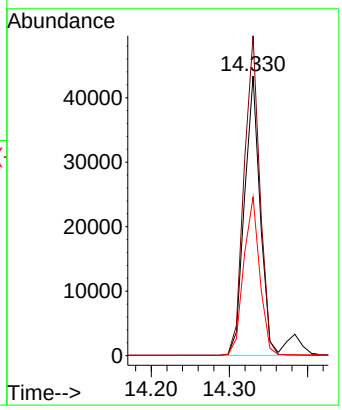


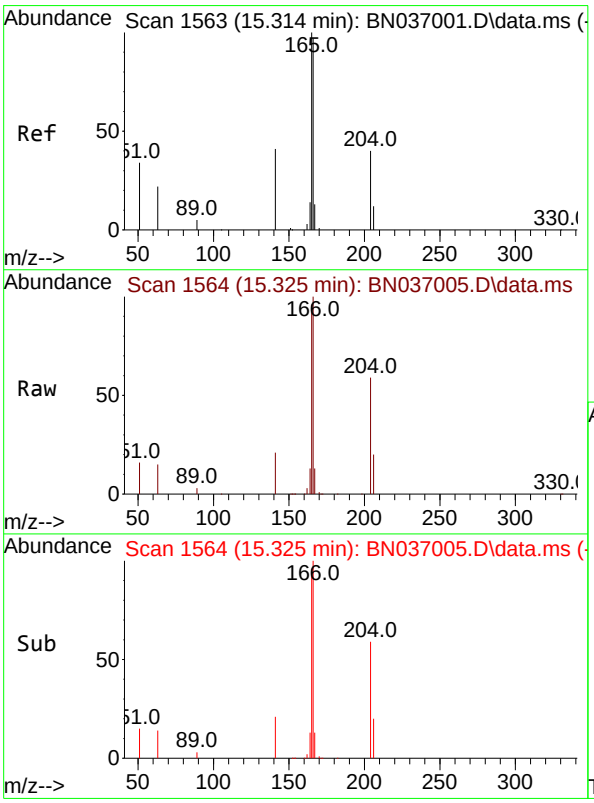
#17
Acenaphthene
Concen: 5.169 ng
RT: 14.330 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 60171

Ion	Ratio	Lower	Upper
154	100		
153	115.6	94.2	141.4
152	58.3	49.4	74.0

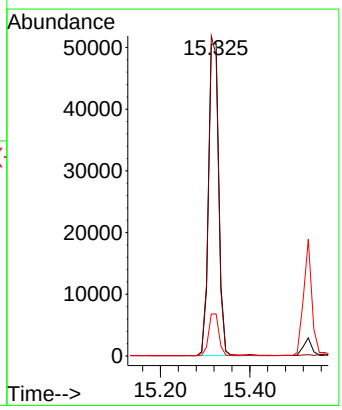


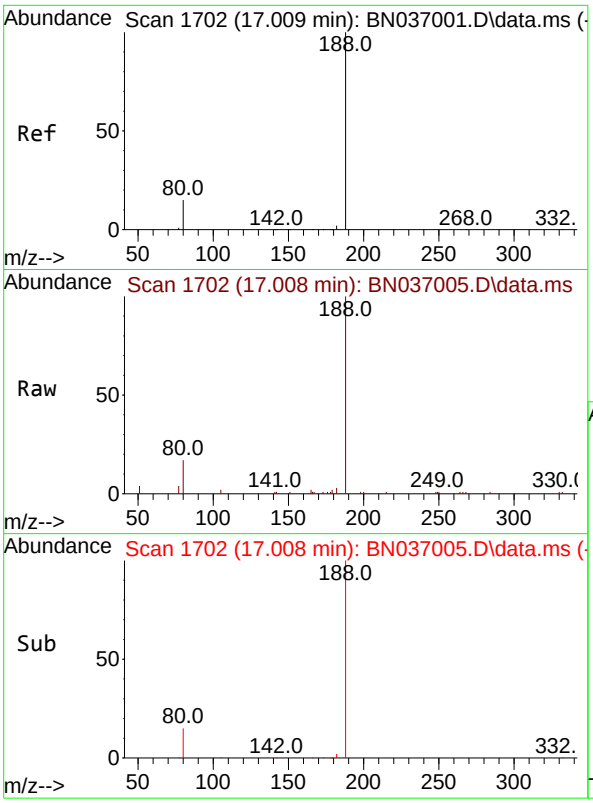


#18
Fluorene
Concen: 5.250 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.010 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:166 Resp: 80175

Ion	Ratio	Lower	Upper
166	100		
165	99.3	80.6	120.8
167	13.3	10.6	16.0



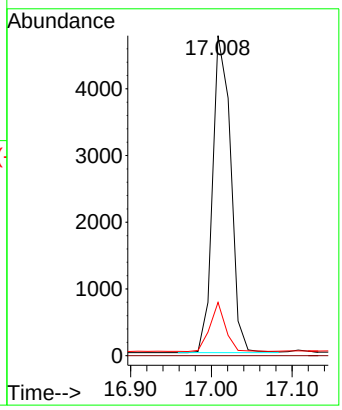


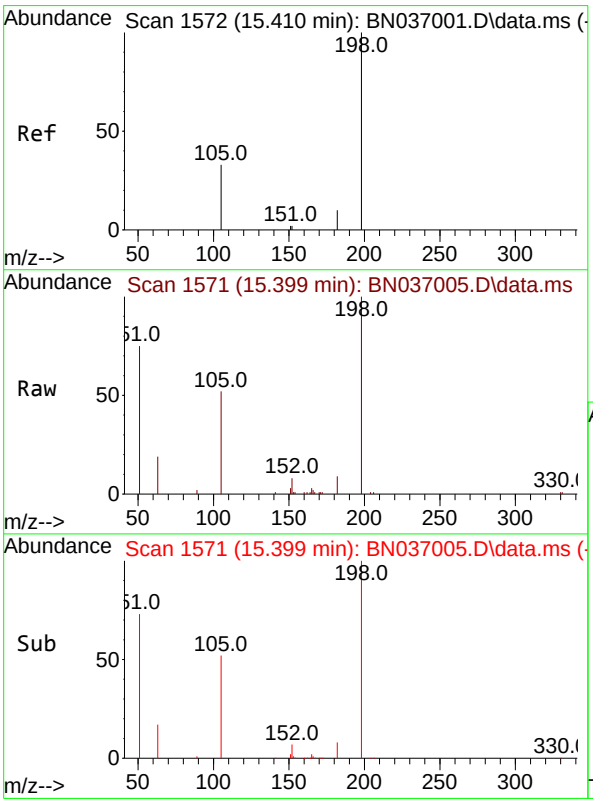
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.008 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 7377

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.7	13.4	20.0

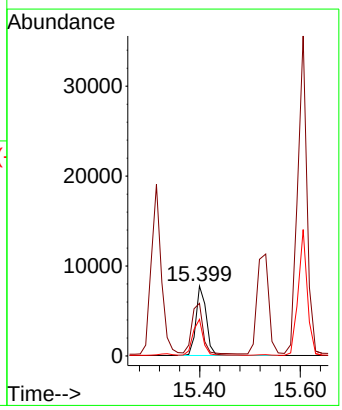


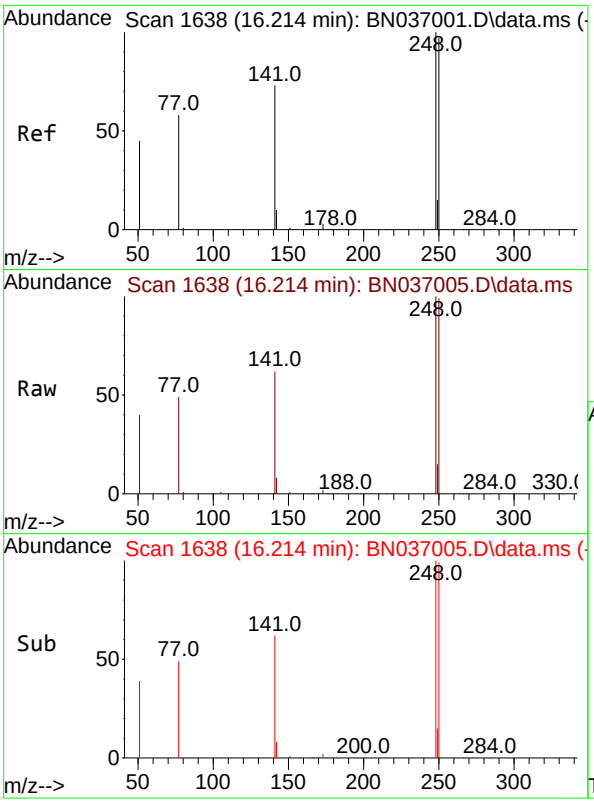


#20
4,6-Dinitro-2-methylphenol
Concen: 5.020 ng
RT: 15.399 min Scan# 1571
Delta R.T. -0.011 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:198 Resp: 11401

Ion	Ratio	Lower	Upper
198	100		
51	75.2	87.8	131.6#
105	52.3	44.2	66.4



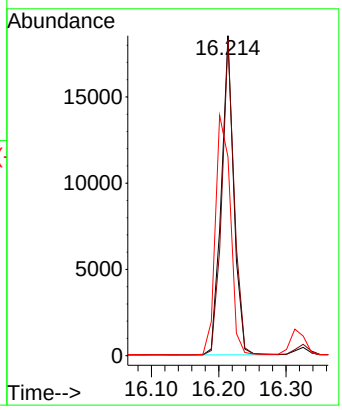


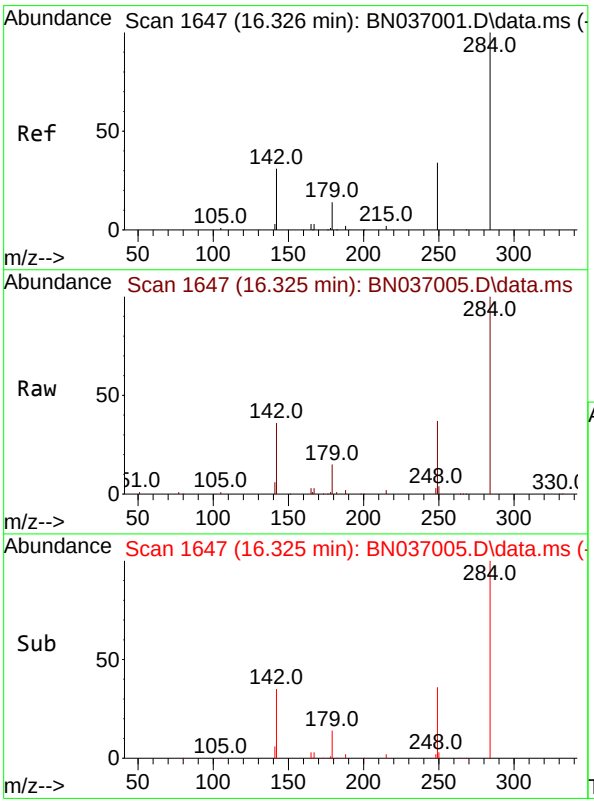
#21
4-Bromophenyl-phenylether
Concen: 5.124 ng
RT: 16.214 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 23877

Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.1	117.1
141	62.1	59.7	89.5

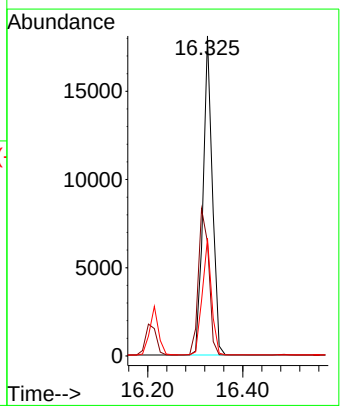


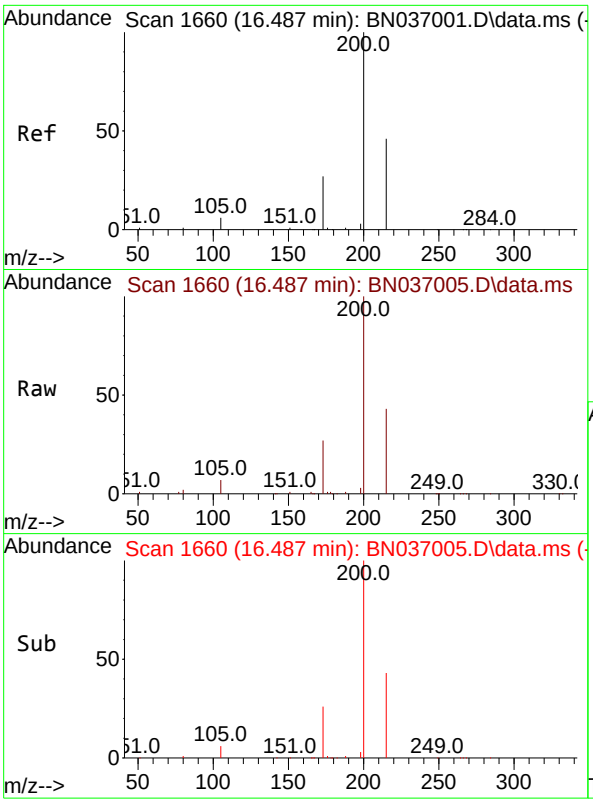


#22
Hexachlorobenzene
Concen: 4.931 ng
RT: 16.325 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:284 Resp: 24597

Ion	Ratio	Lower	Upper
284	100		
142	51.5	41.2	61.8
249	36.6	28.7	43.1



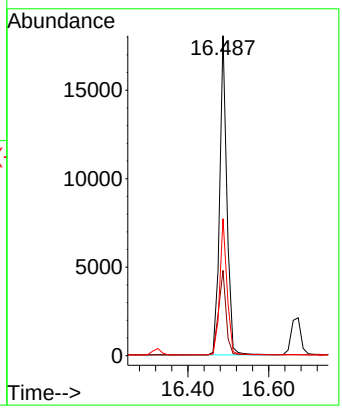


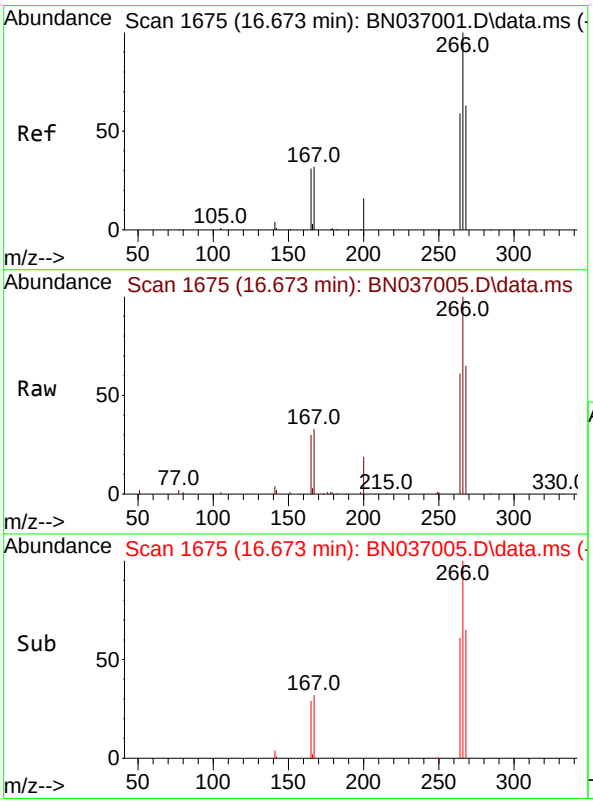
#23
Atrazine
Concen: 5.483 ng
RT: 16.487 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 22281

Ion	Ratio	Lower	Upper
200	100		
173	26.6	25.2	37.8
215	42.8	39.3	58.9

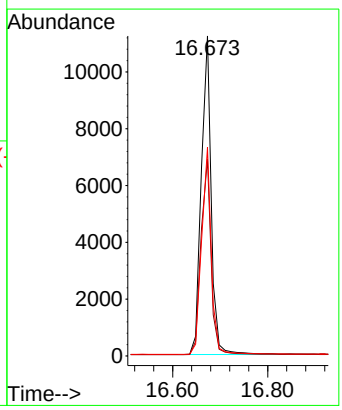


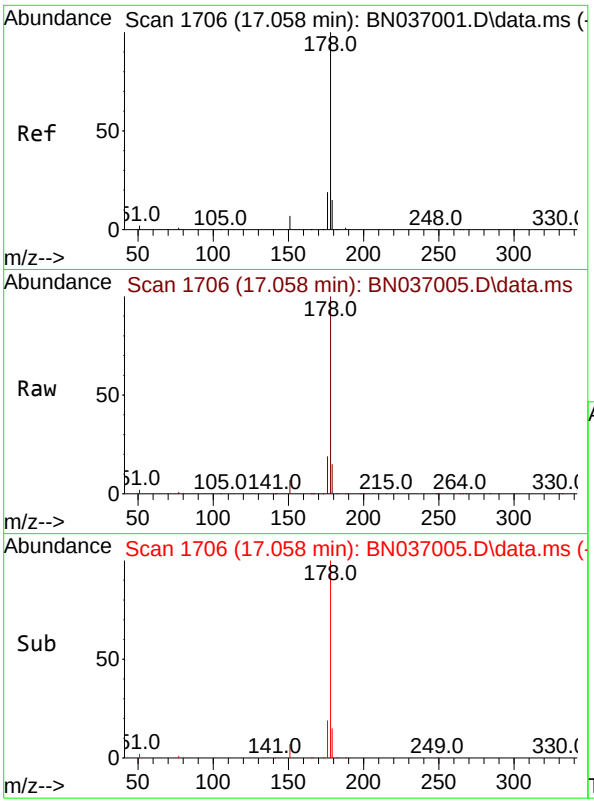


#24
Pentachlorophenol
Concen: 5.883 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:266 Resp: 16300

Ion	Ratio	Lower	Upper
266	100		
264	62.8	47.9	71.9
268	64.0	50.0	75.0



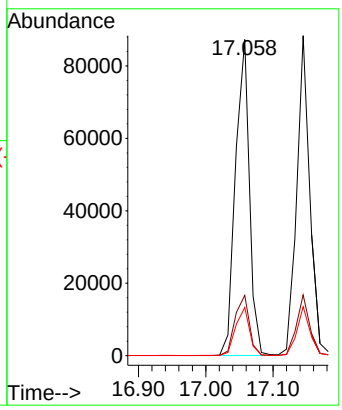


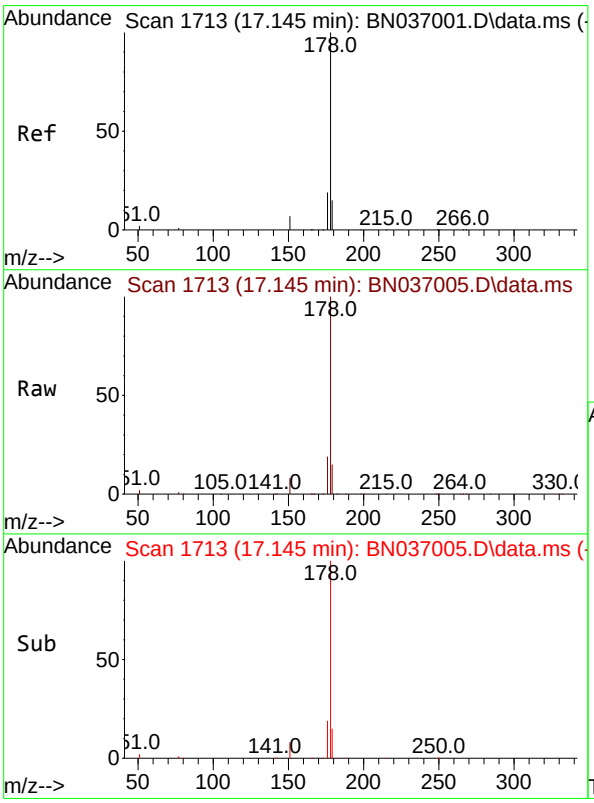
#25
Phenanthrene
Concen: 5.205 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 125493

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.2	12.2	18.2

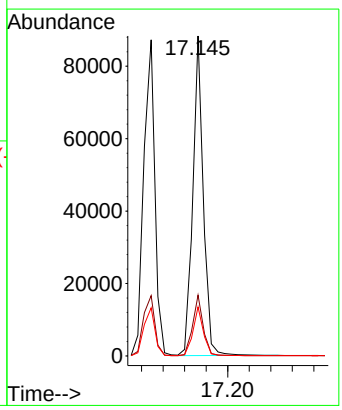


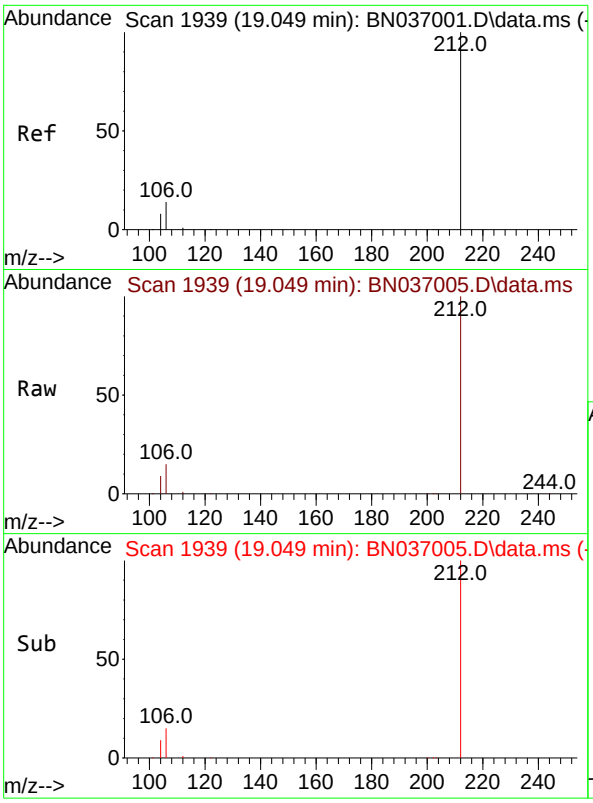


#26
Anthracene
Concen: 5.464 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:178 Resp: 119884

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.2	12.3	18.5



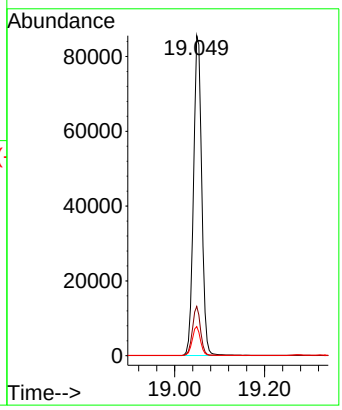


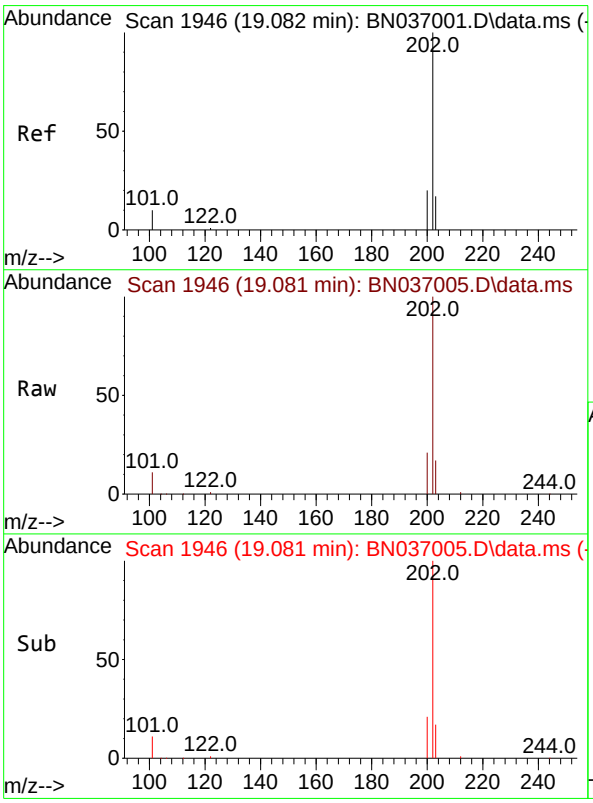
#27
Fluoranthene-d10
Concen: 5.372 ng
RT: 19.049 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 108672

Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.3	16.9
104	8.9	6.7	10.1

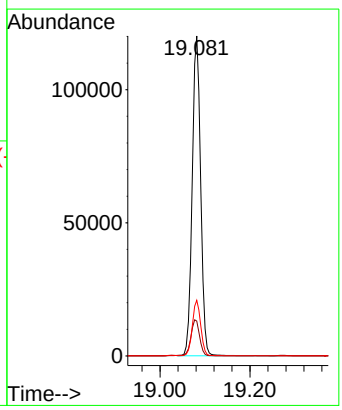


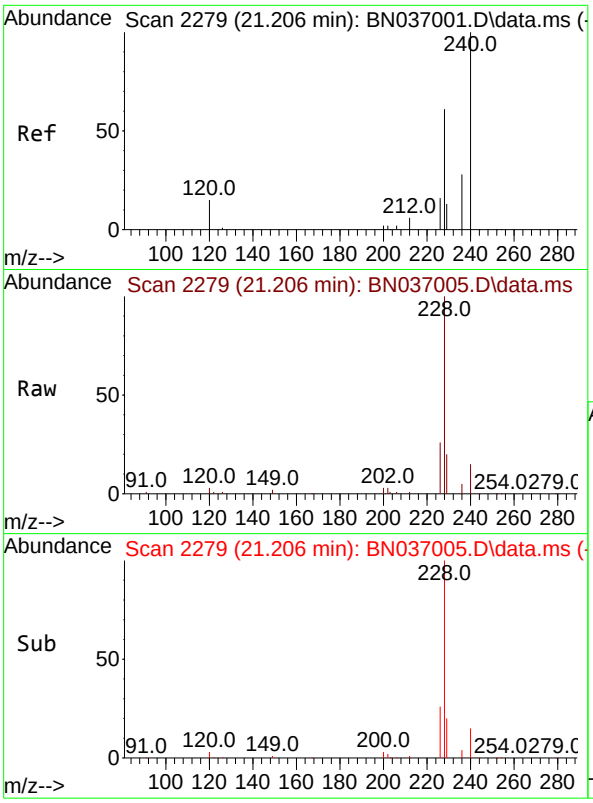


#28
Fluoranthene
Concen: 5.421 ng
RT: 19.081 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:202 Resp: 156131

Ion	Ratio	Lower	Upper
202	100		
101	11.7	8.9	13.3
203	17.1	13.8	20.8



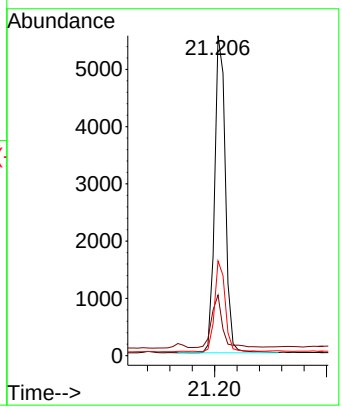


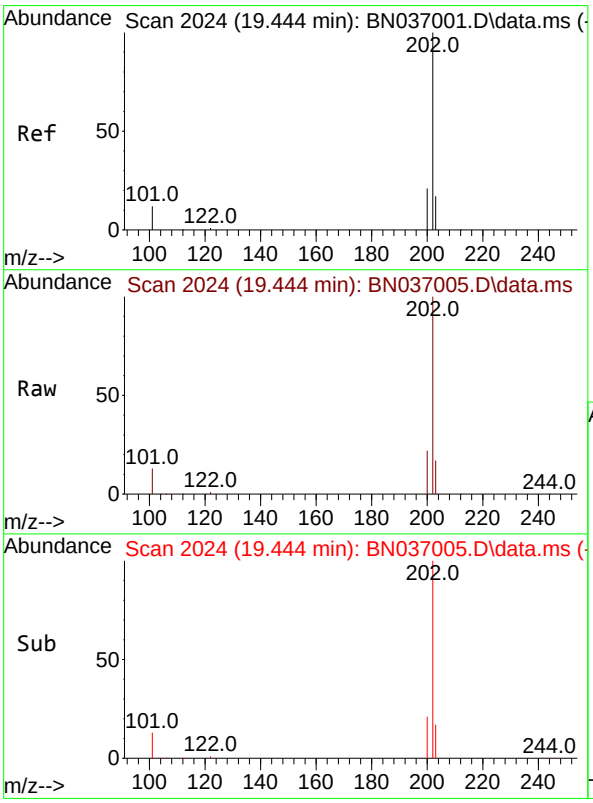
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 7435

Ion	Ratio	Lower	Upper
240	100		
120	19.0	15.1	22.7
236	29.6	24.0	36.0

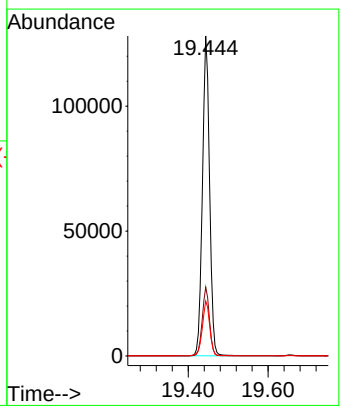


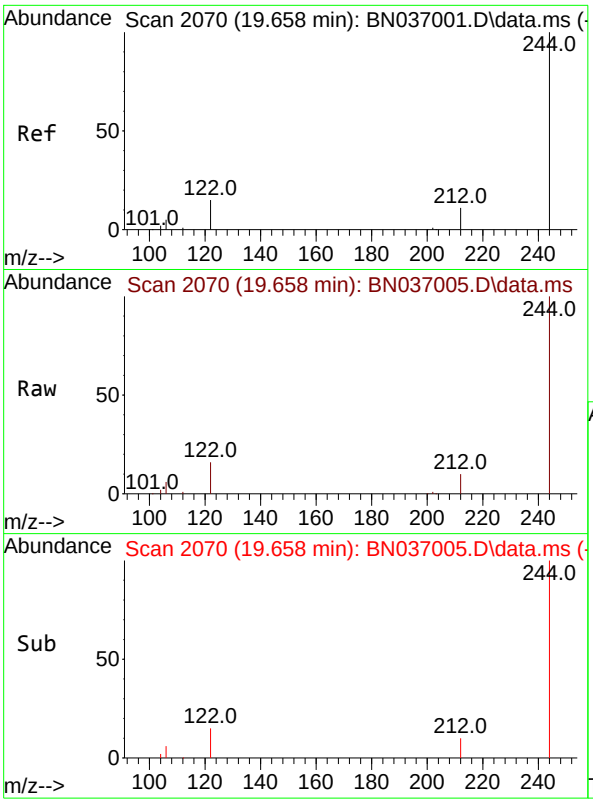


#30
Pyrene
Concen: 5.001 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:202 Resp: 159039

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.7	14.2	21.4



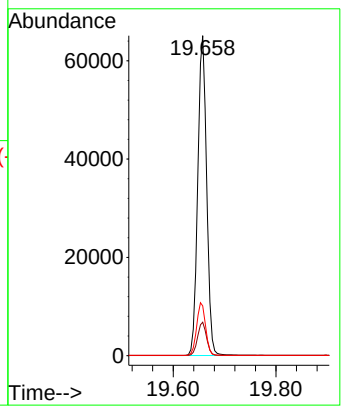


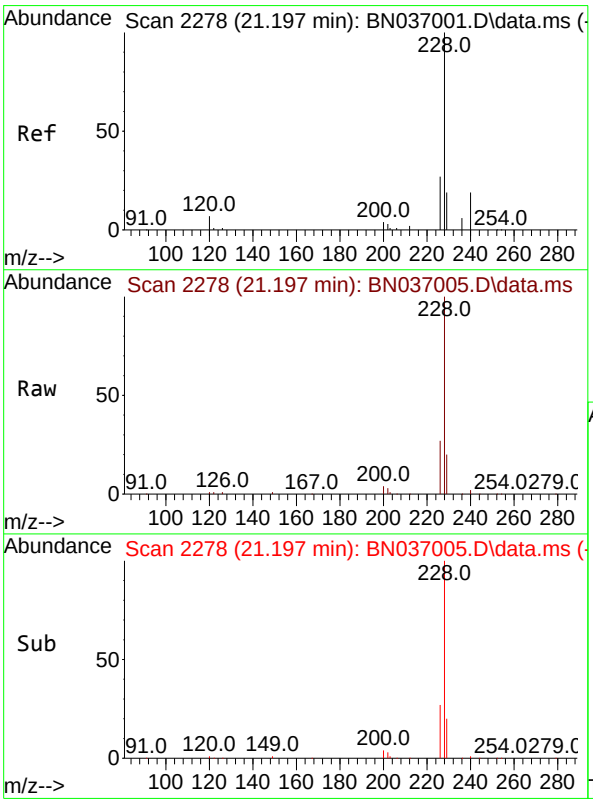
#31
Terphenyl-d14
Concen: 4.953 ng
RT: 19.658 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 78766

Ion	Ratio	Lower	Upper
244	100		
212	10.4	9.7	14.5
122	15.6	13.4	20.0

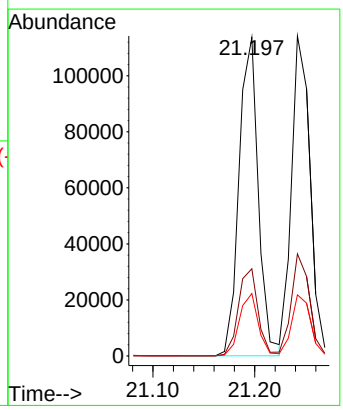


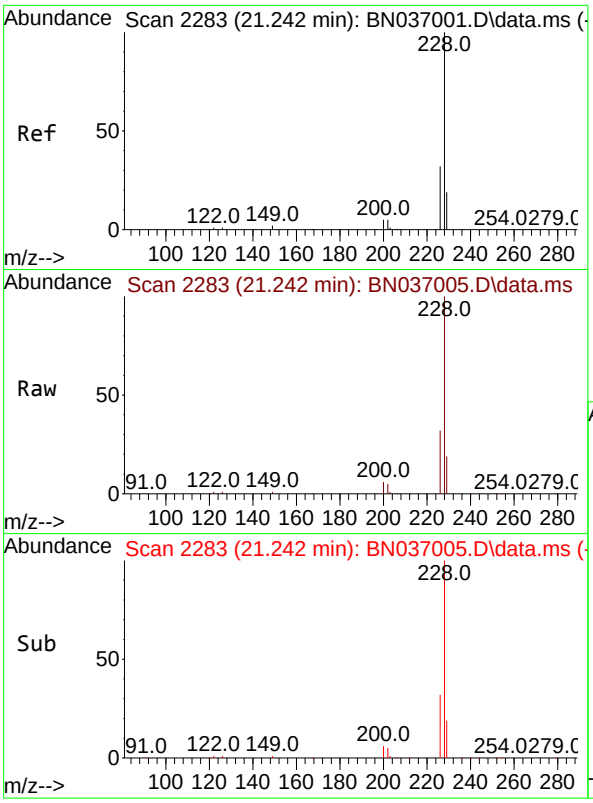


#32
Benzo(a)anthracene
Concen: 5.341 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:228 Resp: 149524

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.2	33.4
229	19.6	16.0	24.0



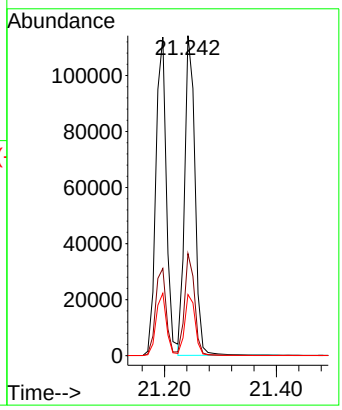


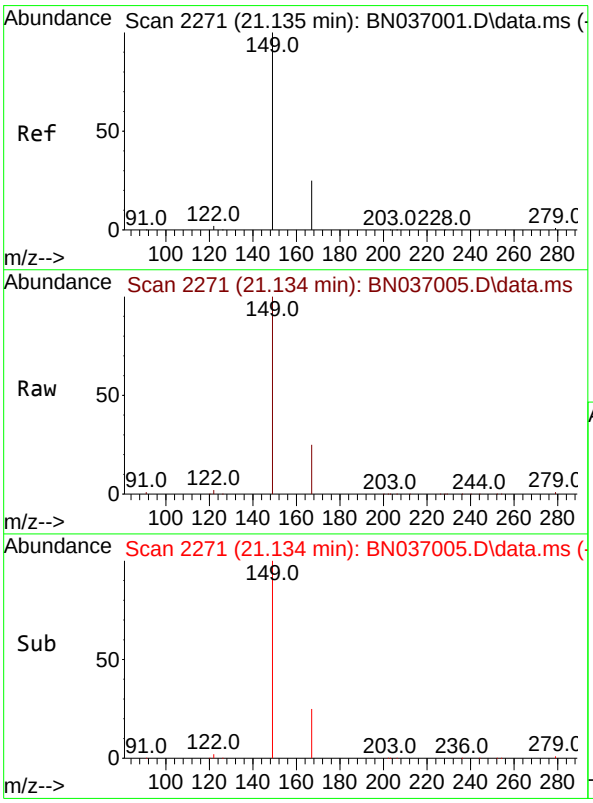
#33
Chrysene
Concen: 4.946 ng
RT: 21.242 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 146457

Ion	Ratio	Lower	Upper
228	100		
226	31.9	26.3	39.5
229	19.1	16.2	24.2

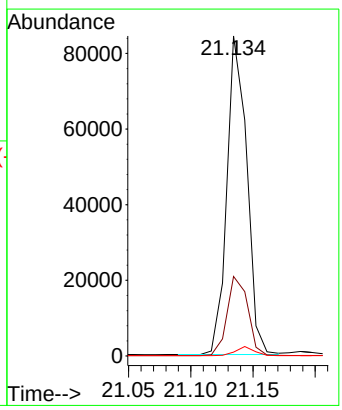


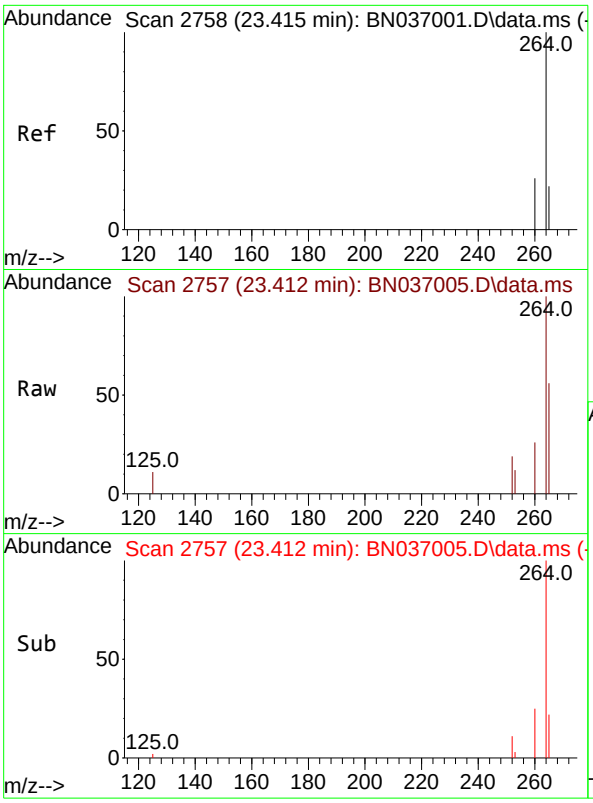


#34
Bis(2-ethylhexyl)phthalate
Concen: 5.445 ng
RT: 21.134 min Scan# 2271
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:149 Resp: 93938

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.6	30.8
279	2.6	2.6	3.8



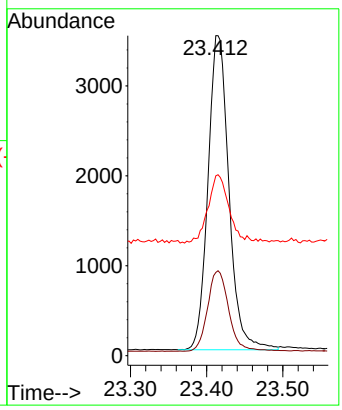


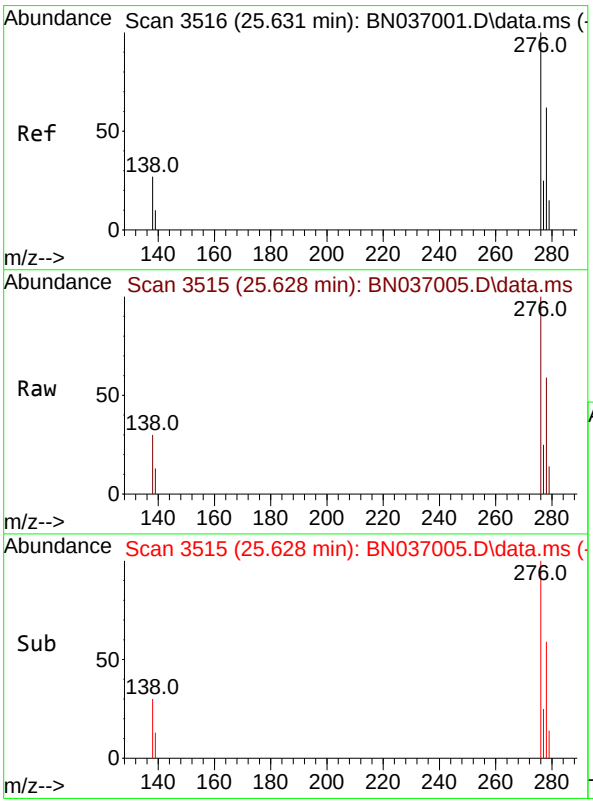
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.412 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 6657

Ion	Ratio	Lower	Upper
264	100		
260	26.0	21.9	32.9
265	56.2	51.6	77.4

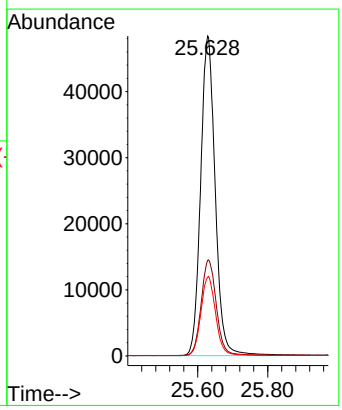


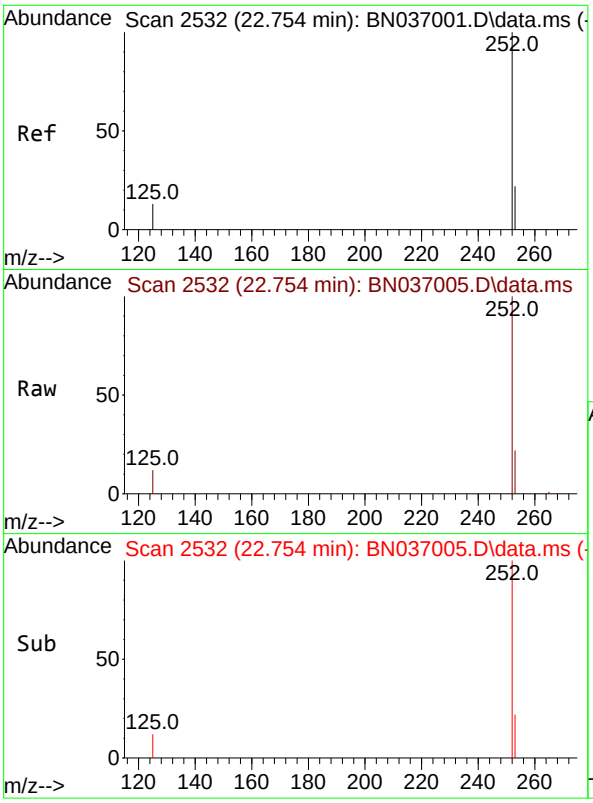


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.141 ng
RT: 25.628 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:276 Resp: 139772

Ion	Ratio	Lower	Upper
276	100		
138	31.4	22.7	34.1
277	25.1	20.0	30.0



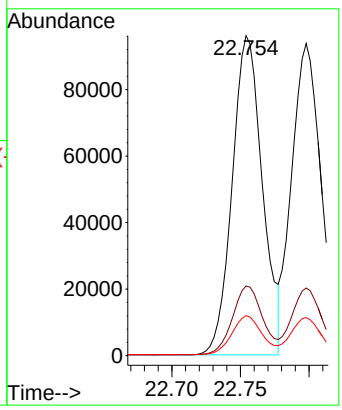


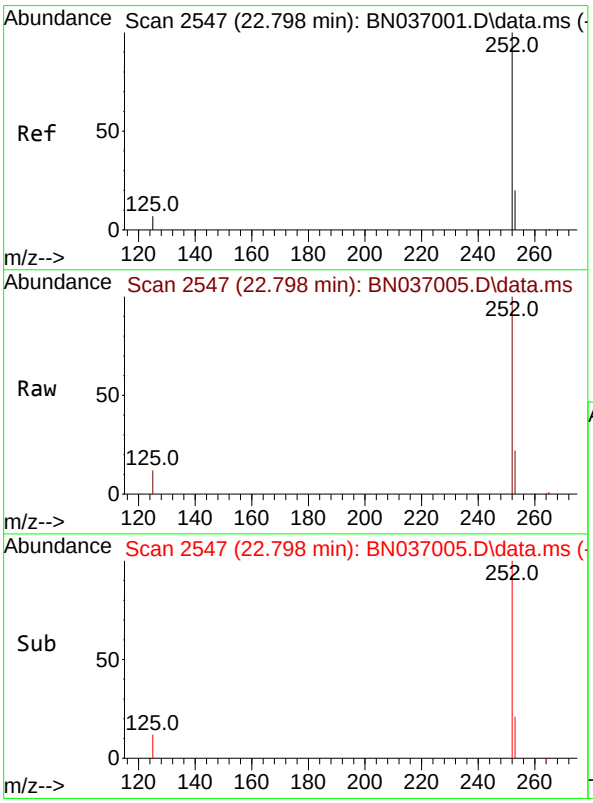
#37
Benzo(b)fluoranthene
Concen: 5.323 ng
RT: 22.754 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 146896

Ion	Ratio	Lower	Upper
252	100		
253	21.8	21.8	32.6
125	12.5	14.6	21.8#

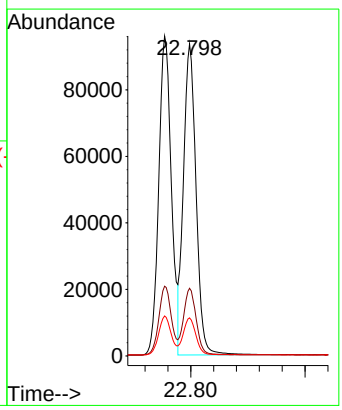


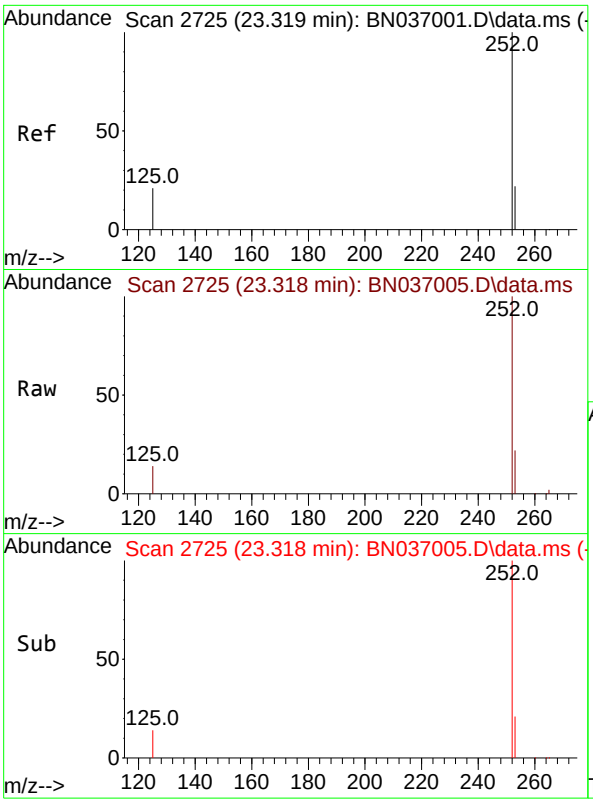


#38
Benzo(k)fluoranthene
Concen: 5.244 ng
RT: 22.798 min Scan# 2547
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:252 Resp: 143001

Ion	Ratio	Lower	Upper
252	100		
253	21.7	21.4	32.2
125	12.2	13.0	19.4#



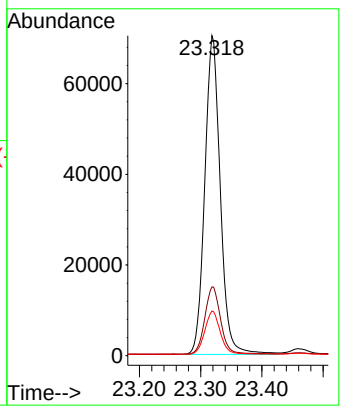


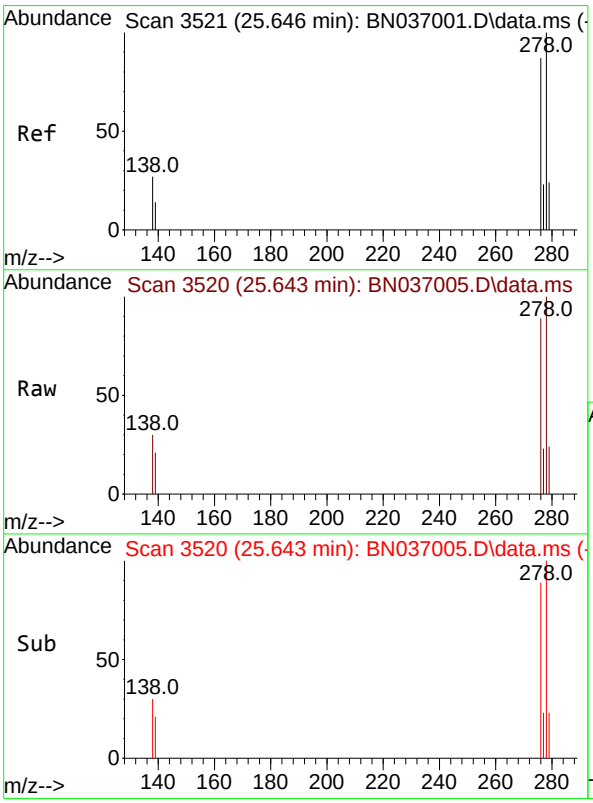
#39
Benzo(a)pyrene
Concen: 5.280 ng
RT: 23.318 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 123679

Ion	Ratio	Lower	Upper
252	100		
253	21.5	23.8	35.6#
125	13.9	21.8	32.6#

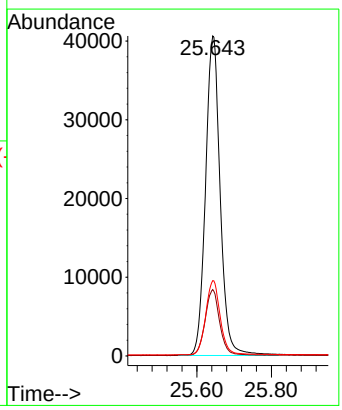


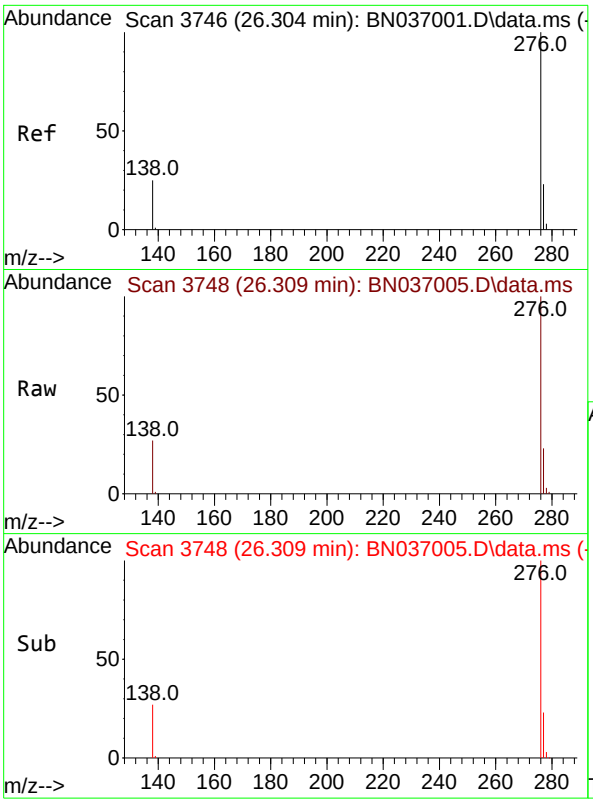


#40
Dibenzo(a,h)anthracene
Concen: 5.241 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:278 Resp: 111001

Ion	Ratio	Lower	Upper
278	100		
139	20.8	17.4	26.0
279	23.6	24.6	37.0#



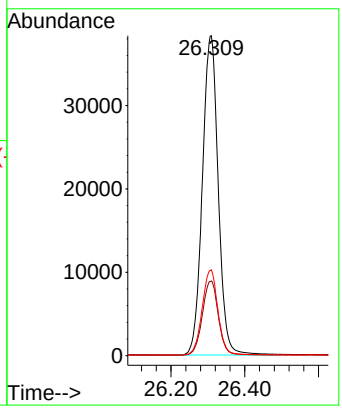


#41
Benzo(g,h,i)perylene
Concen: 4.975 ng
RT: 26.309 min Scan# 3
Delta R.T. 0.005 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 114459

Ion	Ratio	Lower	Upper
276	100		
277	23.4	20.2	30.4
138	26.9	22.0	33.0



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037006.D
Acq On : 13 May 2025 22:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Quant Time: May 14 11:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

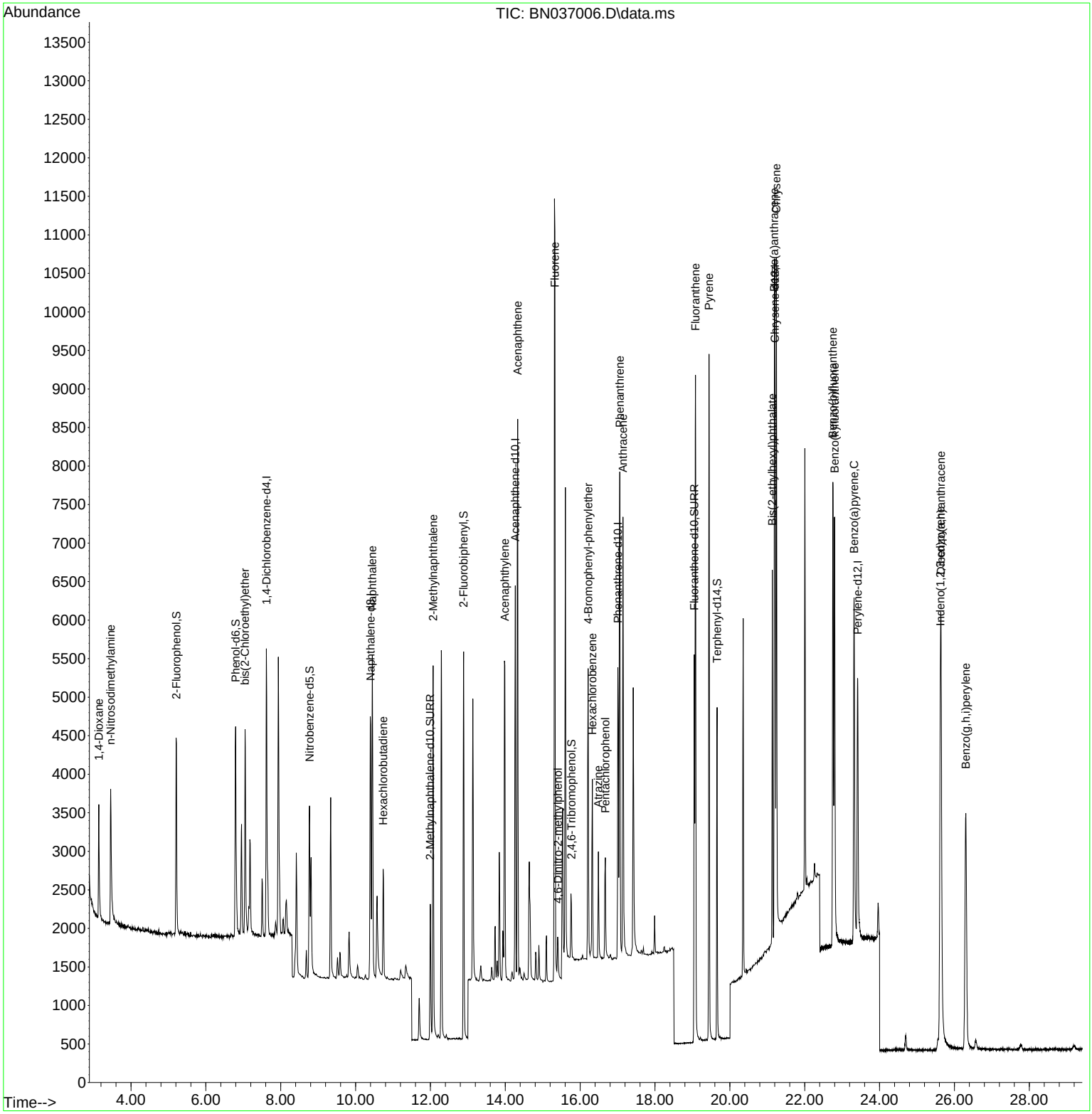
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	1738	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	4666	0.400	ng		0.00
13) Acenaphthene-d10	14.267	164	2720	0.400	ng		0.00
19) Phenanthrene-d10	17.009	188	5359	0.400	ng		0.00
29) Chrysene-d12	21.206	240	4597	0.400	ng		0.00
35) Perylene-d12	23.415	264	4432	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.213	112	1928	0.423	ng		0.00
5) Phenol-d6	6.795	99	2325	0.408	ng		0.00
8) Nitrobenzene-d5	8.771	82	1928	0.379	ng		0.00
11) 2-Methylnaphthalene-d10	11.996	152	2642	0.402	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	474	0.397	ng		0.00
15) 2-Fluorobiphenyl	12.888	172	5054	0.406	ng		0.00
27) Fluoranthene-d10	19.049	212	5648	0.384	ng		0.00
31) Terphenyl-d14	19.658	244	4080	0.415	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.140	88	868	0.407	ng		95
3) n-Nitrosodimethylamine	3.458	42	1788	0.390	ng	#	92
6) bis(2-Chloroethyl)ether	7.048	93	2010	0.383	ng		100
9) Naphthalene	10.447	128	5367	0.389	ng		99
10) Hexachlorobutadiene	10.735	225	1150	0.397	ng	#	99
12) 2-Methylnaphthalene	12.072	142	3513	0.396	ng		98
16) Acenaphthylene	13.989	152	5019	0.379	ng		100
17) Acenaphthene	14.331	154	3352	0.387	ng		100
18) Fluorene	15.325	166	4398	0.388	ng		100
20) 4,6-Dinitro-2-methylph...	15.411	198	410	0.396	ng		88
21) 4-Bromophenyl-phenylether	16.214	248	1326	0.392	ng		98
22) Hexachlorobenzene	16.326	284	1488	0.411	ng		98
23) Atrazine	16.487	200	1120	0.379	ng		98
24) Pentachlorophenol	16.673	266	672	0.336	ng		93
25) Phenanthrene	17.058	178	6852	0.391	ng		99
26) Anthracene	17.145	178	6126	0.384	ng		99
28) Fluoranthene	19.082	202	7940	0.380	ng		99
30) Pyrene	19.444	202	8093	0.412	ng		100
32) Benzo(a)anthracene	21.189	228	6824	0.394	ng		98
33) Chrysene	21.242	228	7298	0.399	ng		98
34) Bis(2-ethylhexyl)phtha...	21.135	149	4120	0.387	ng		99
36) Indeno(1,2,3-cd)pyrene	25.623	276	7358	0.407	ng		98
37) Benzo(b)fluoranthene	22.752	252	7184	0.391	ng		99
38) Benzo(k)fluoranthene	22.798	252	7438	0.410	ng		99
39) Benzo(a)pyrene	23.319	252	6167	0.395	ng		98
40) Dibenzo(a,h)anthracene	25.640	278	5621	0.399	ng		98
41) Benzo(g,h,i)perylene	26.304	276	6268	0.409	ng		99

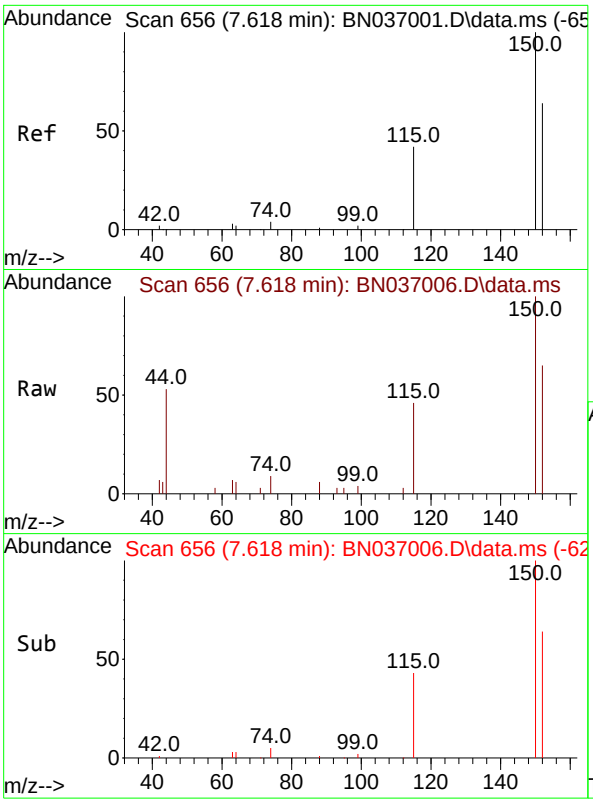
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037006.D
Acq On : 13 May 2025 22:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Quant Time: May 14 11:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



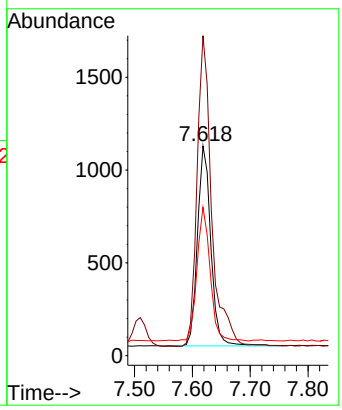


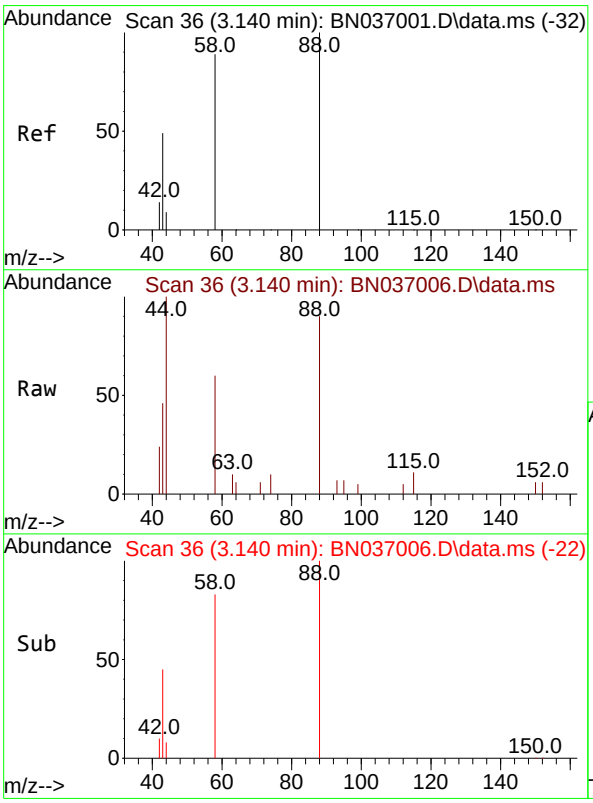
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:152 Resp: 1738

Ion	Ratio	Lower	Upper
152	100		
150	152.7	123.9	185.9
115	70.8	55.8	83.8

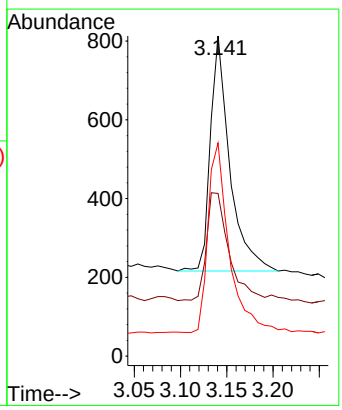


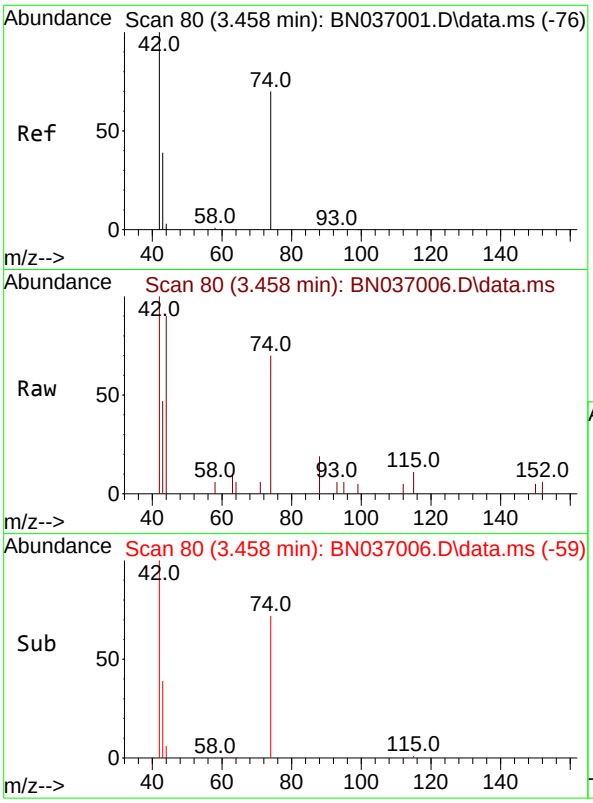


#2
1,4-Dioxane
Concen: 0.407 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion: 88 Resp: 868

Ion	Ratio	Lower	Upper
88	100		
43	53.6	37.4	56.0
58	87.7	68.8	103.2



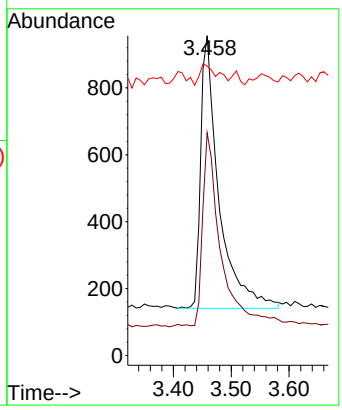


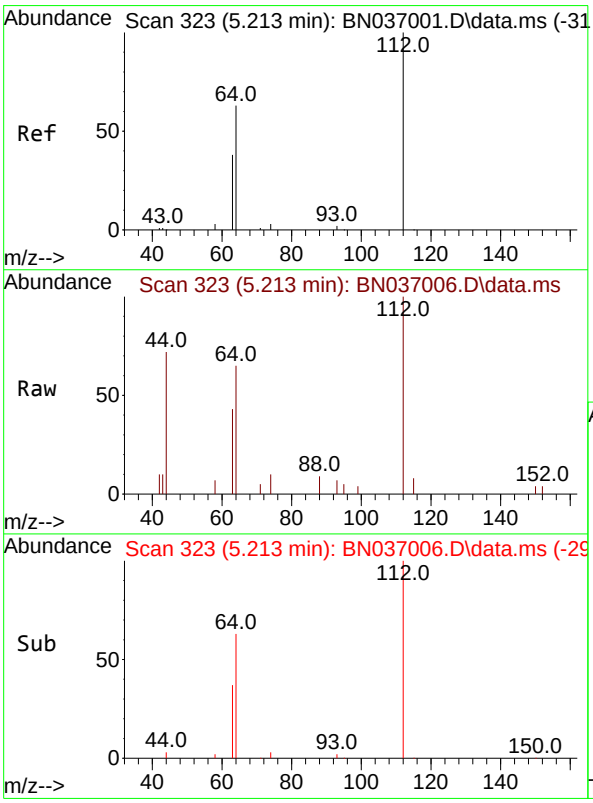
#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.458 min Scan# 8
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion: 42 Resp: 1788

Ion	Ratio	Lower	Upper
42	100		
74	69.1	59.8	89.6
44	7.4	11.9	17.9#

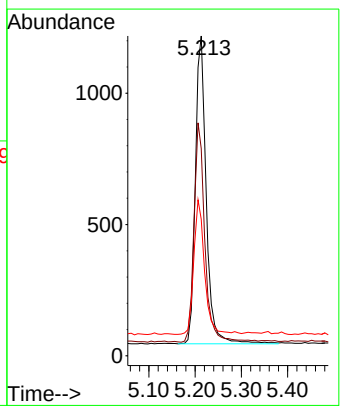


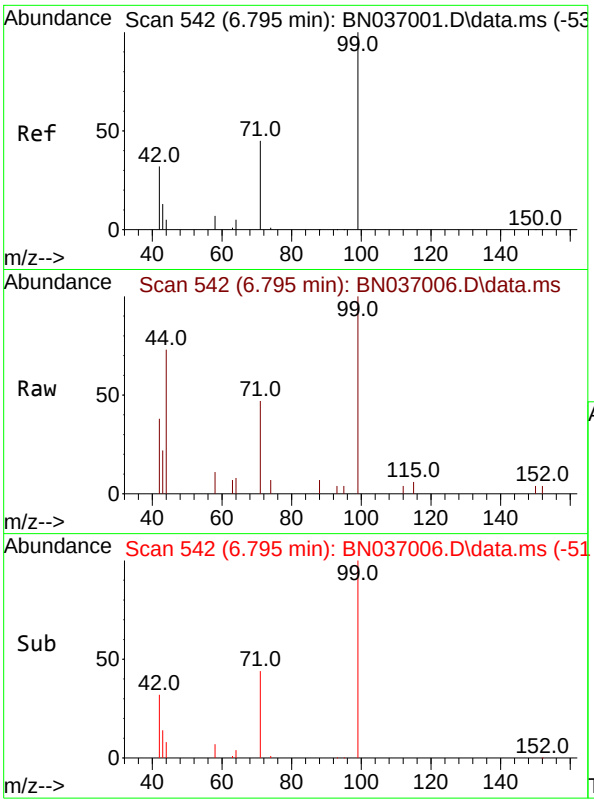


#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:112 Resp: 1928

Ion	Ratio	Lower	Upper
112	100		
64	71.3	55.7	83.5
63	43.4	34.6	51.8



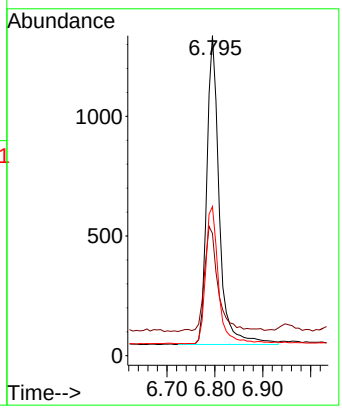


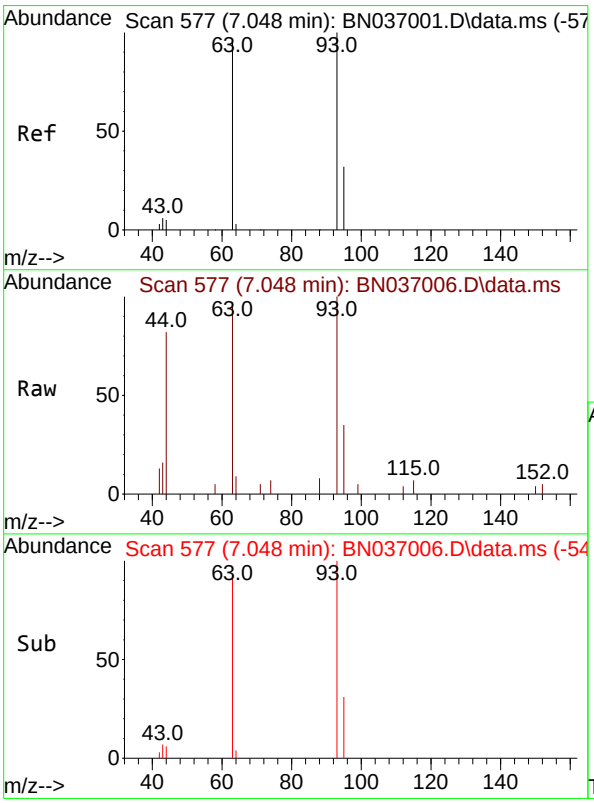
#5
Phenol-d6
Concen: 0.408 ng
RT: 6.795 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion: 99 Resp: 2325

Ion	Ratio	Lower	Upper
99	100		
42	38.2	29.3	43.9
71	45.8	35.7	53.5

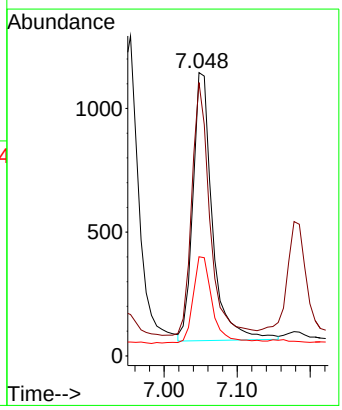


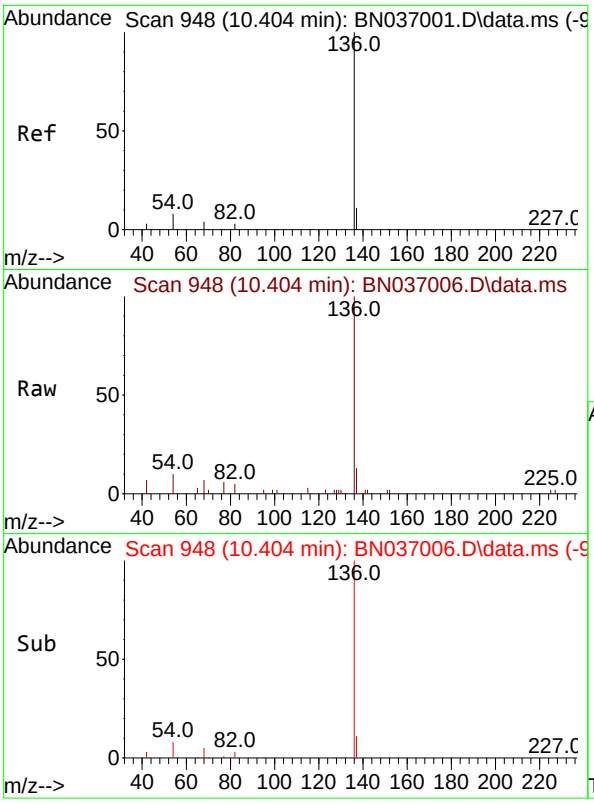


#6
bis(2-Chloroethyl)ether
Concen: 0.383 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion: 93 Resp: 2010

Ion	Ratio	Lower	Upper
93	100		
63	87.3	70.1	105.1
95	32.9	26.2	39.2



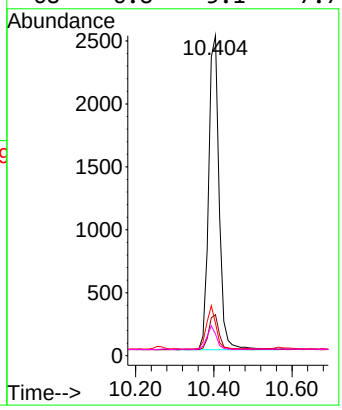


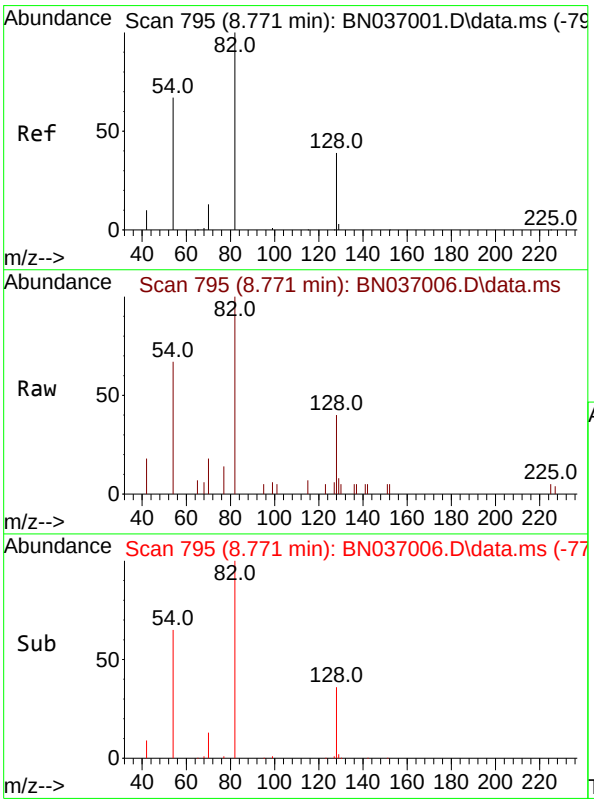
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:136 Resp: 4666

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	10.1	8.5	12.7
68	6.8	5.1	7.7

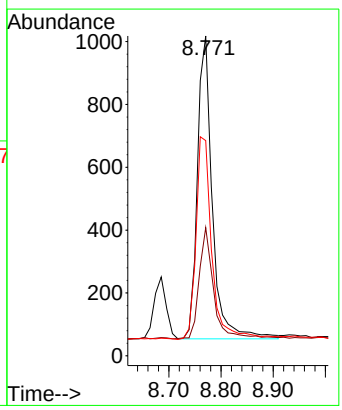


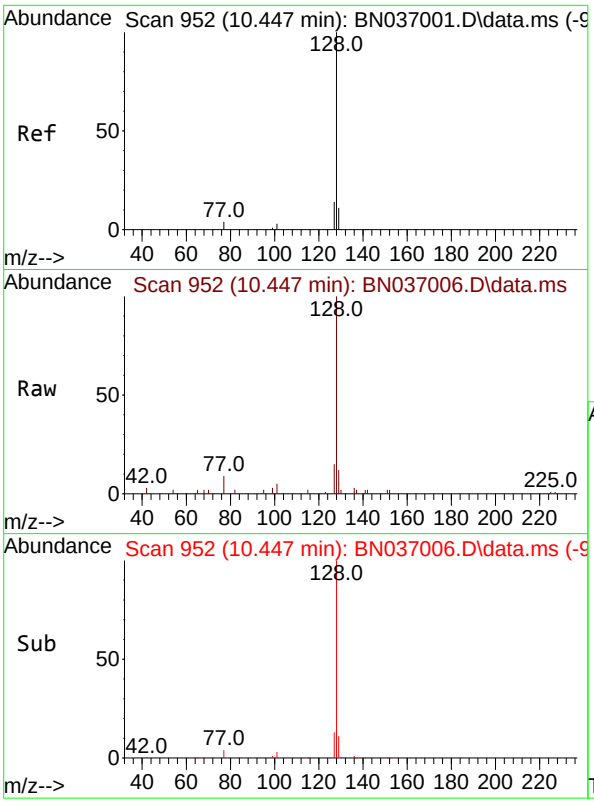


#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion: 82 Resp: 1928

Ion	Ratio	Lower	Upper
82	100		
128	40.1	34.0	51.0
54	67.3	55.0	82.4



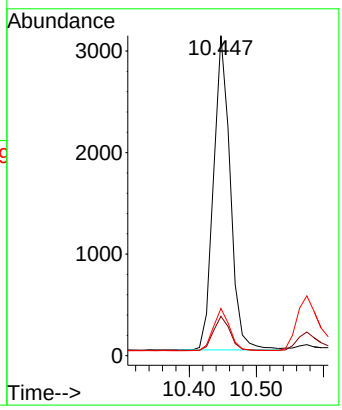


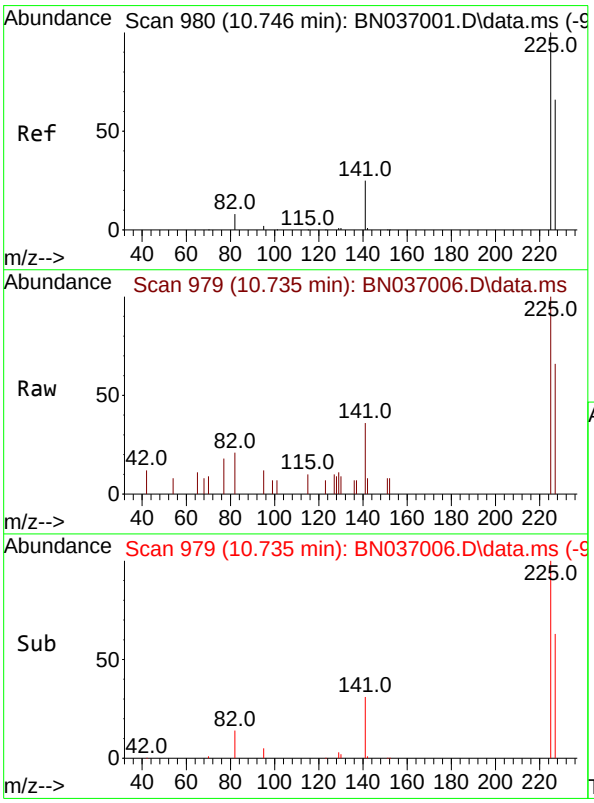
#9
Naphthalene
Concen: 0.389 ng
RT: 10.447 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:128 Resp: 5367

Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.7	14.5
127	14.8	12.4	18.6

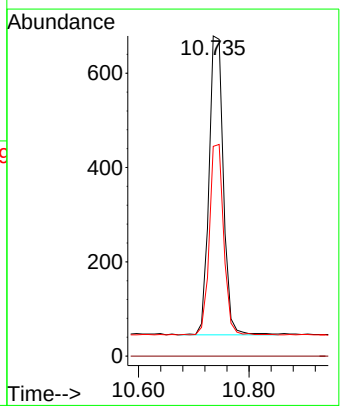


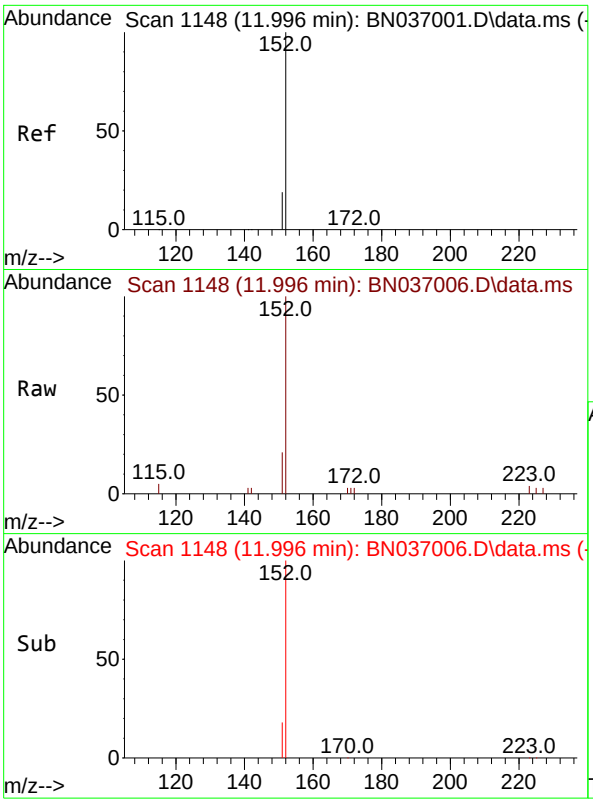


#10
Hexachlorobutadiene
Concen: 0.397 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:225 Resp: 1150

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	50.9	76.3



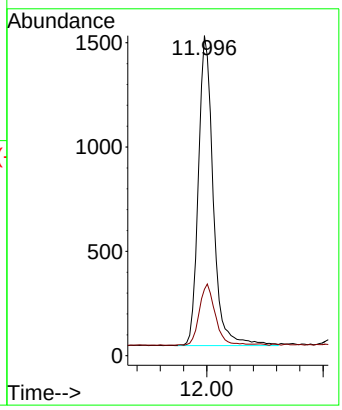


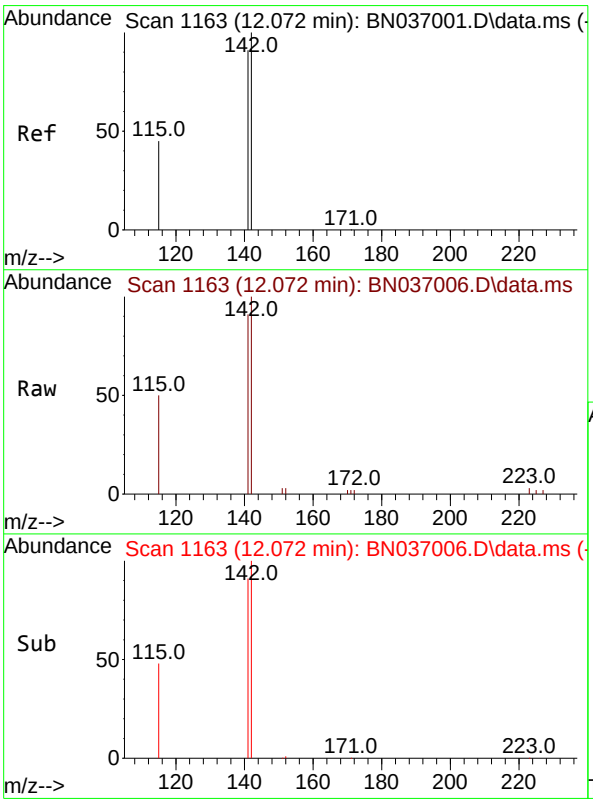
#11
2-Methylnaphthalene-d10
Concen: 0.402 ng
RT: 11.996 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:152 Resp: 2642

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.5	26.3

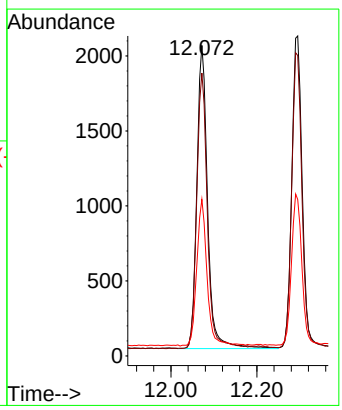


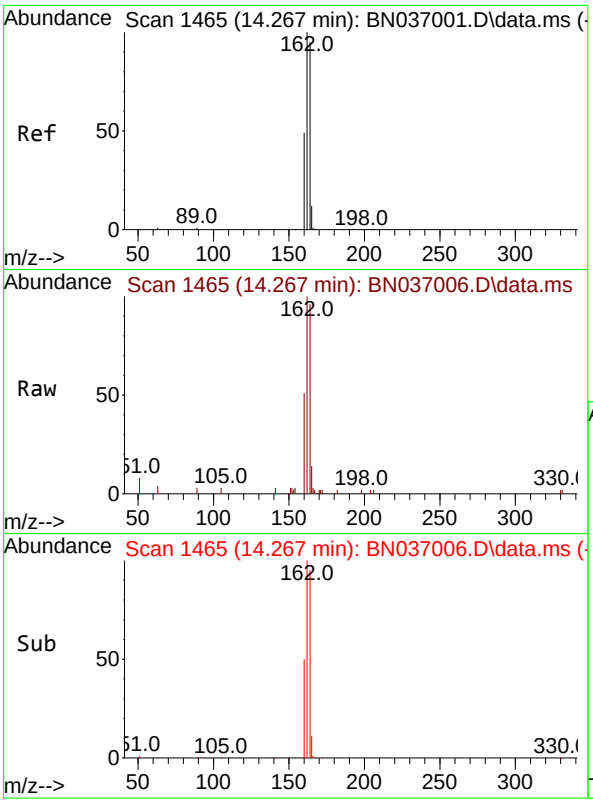


#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:142 Resp: 3513

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.3	109.9
115	50.4	38.4	57.6



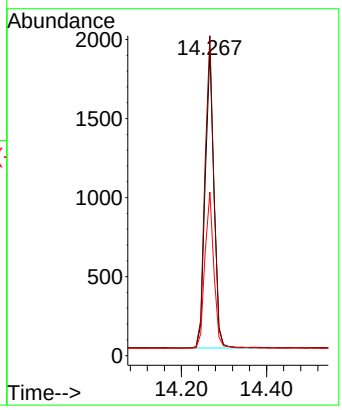


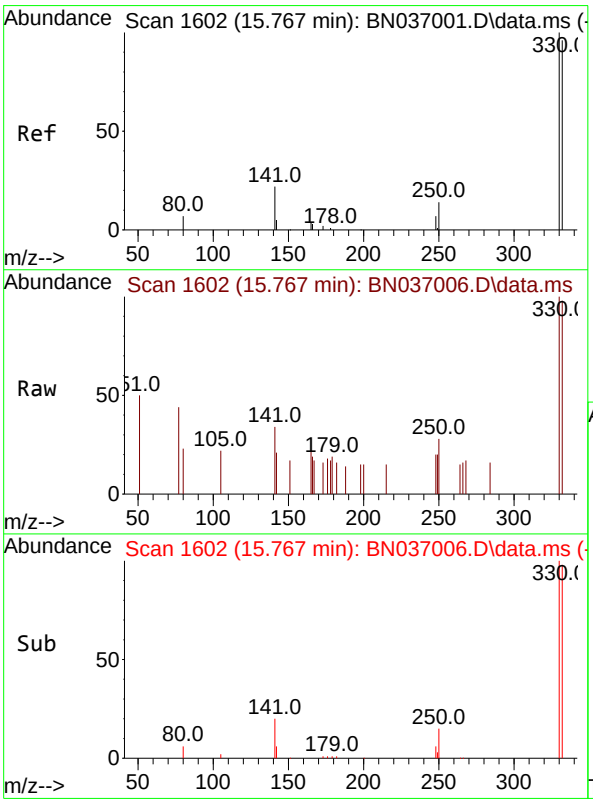
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:164 Resp: 2720

Ion	Ratio	Lower	Upper
164	100		
162	104.7	84.2	126.4
160	53.5	42.6	63.8

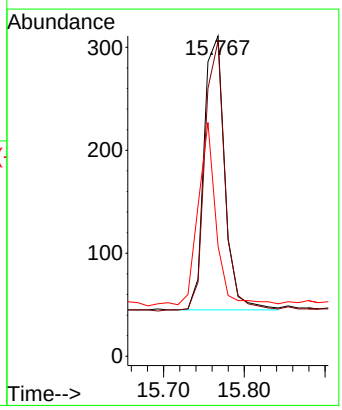


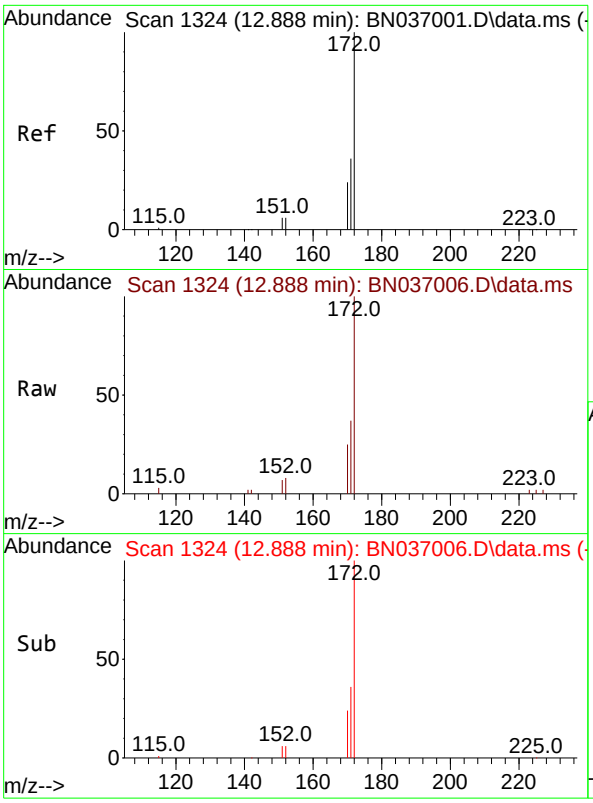


#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:330 Resp: 474

Ion	Ratio	Lower	Upper
330	100		
332	96.0	73.8	110.8
141	59.7	43.9	65.9



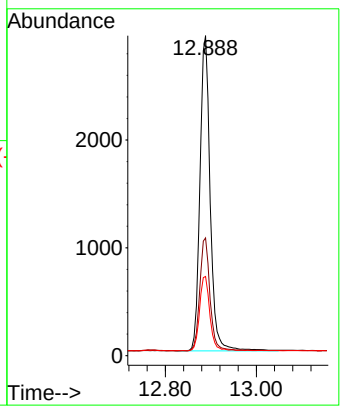


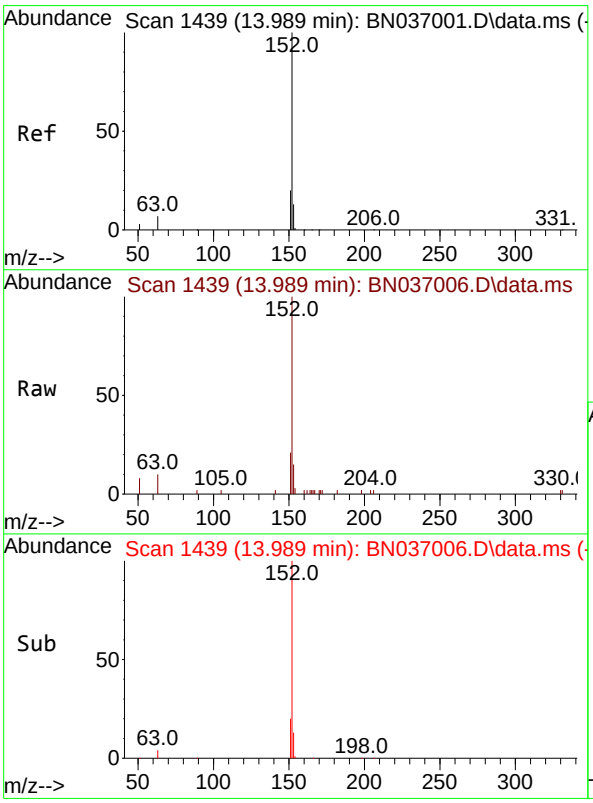
#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:172 Resp: 5054

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.2	43.8
170	24.8	20.5	30.7

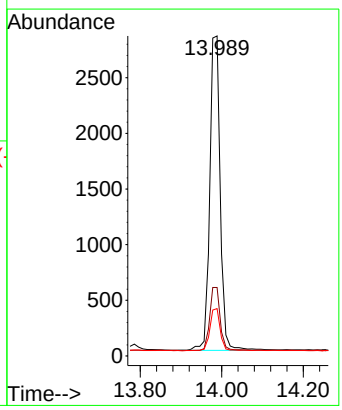


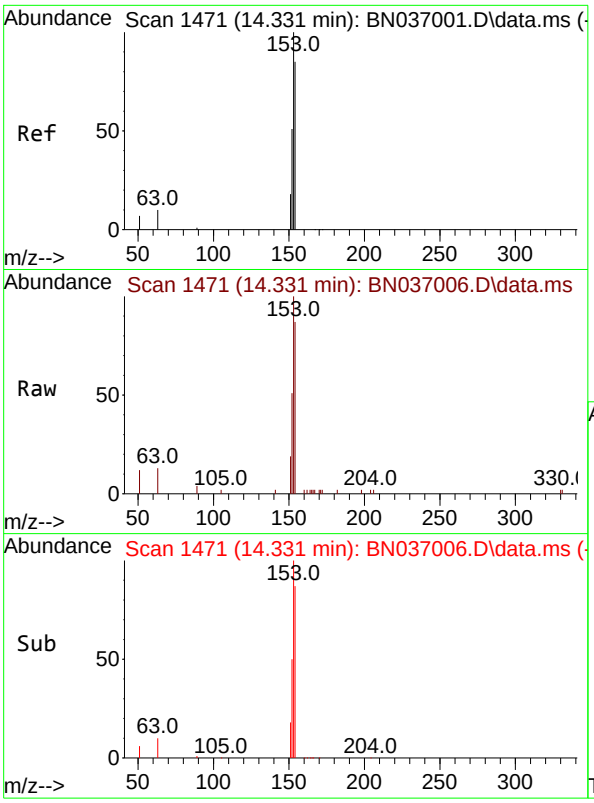


#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:152 Resp: 5019

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.4	10.5	15.7



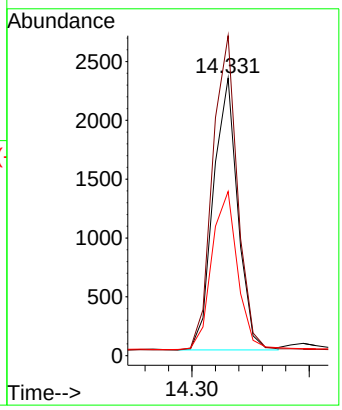


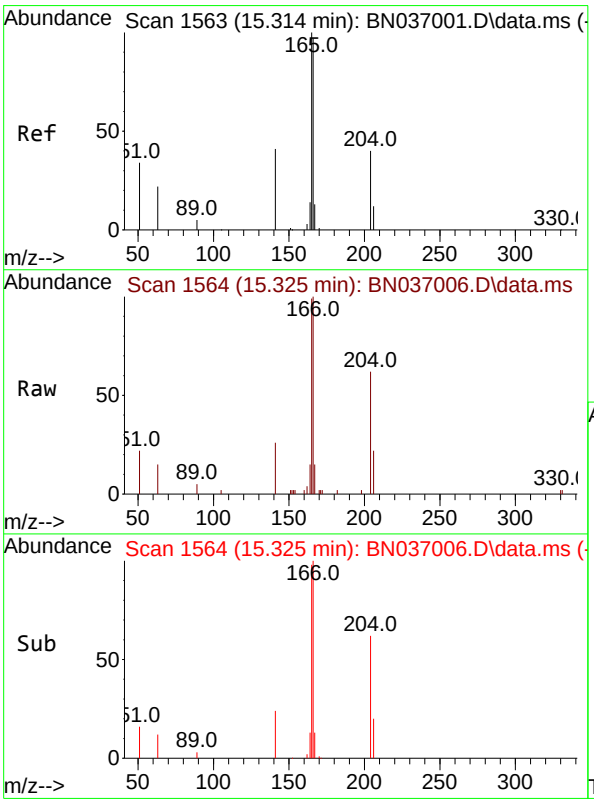
#17
Acenaphthene
Concen: 0.387 ng
RT: 14.331 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:154 Resp: 3352

Ion	Ratio	Lower	Upper
154	100		
153	118.0	94.2	141.4
152	61.8	49.4	74.0

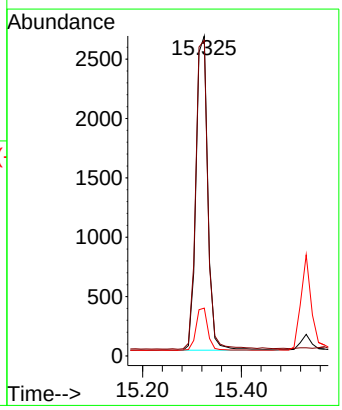


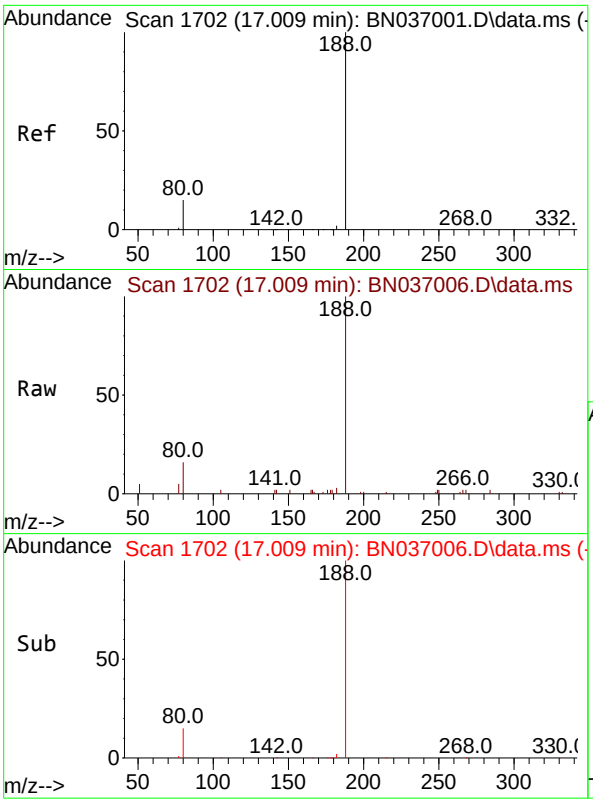


#18
Fluorene
Concen: 0.388 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:166 Resp: 4398

Ion	Ratio	Lower	Upper
166	100		
165	100.3	80.6	120.8
167	13.7	10.6	16.0



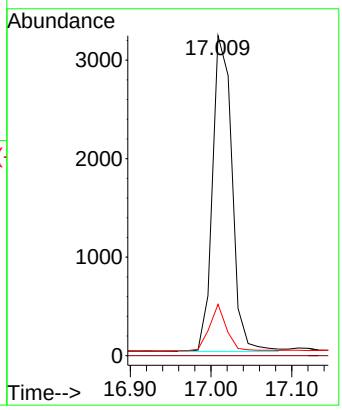


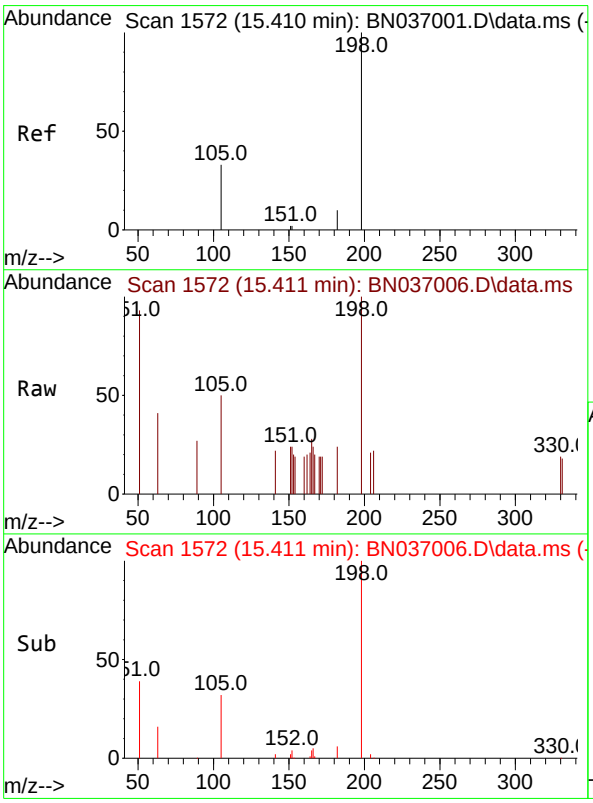
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:188 Resp: 5359

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.1	13.4	20.0

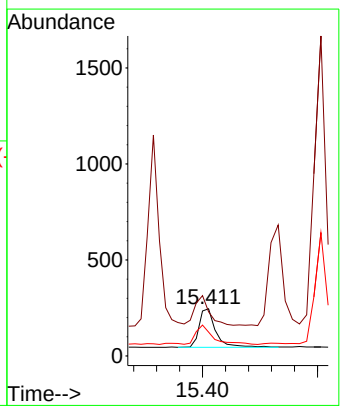


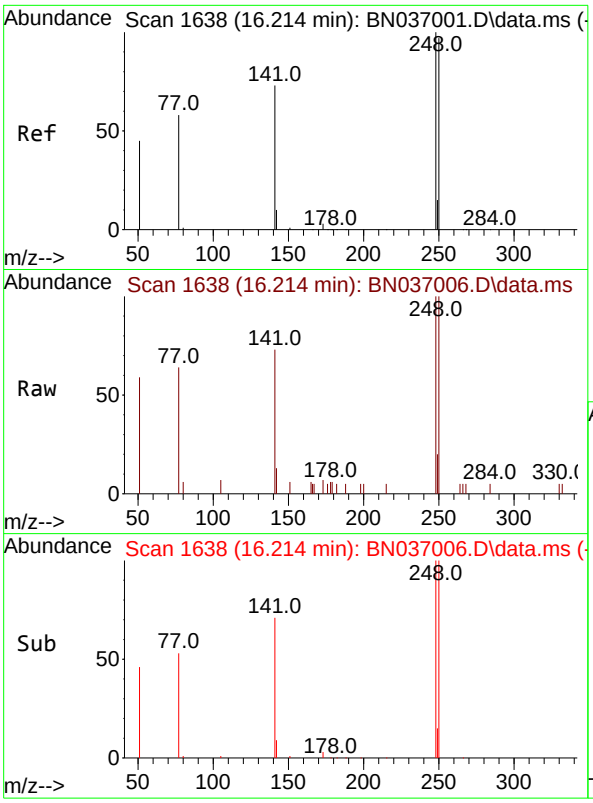


#20
4,6-Dinitro-2-methylphenol
Concen: 0.396 ng
RT: 15.411 min Scan# 1572
Delta R.T. 0.001 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:198 Resp: 410

Ion	Ratio	Lower	Upper
198	100		
51	93.5	87.8	131.6
105	50.4	44.2	66.4



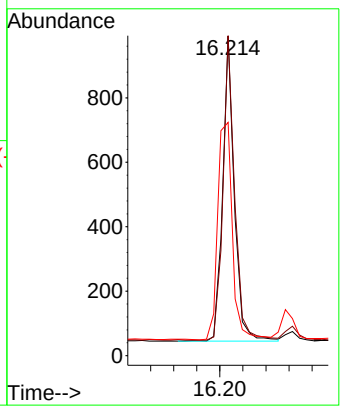


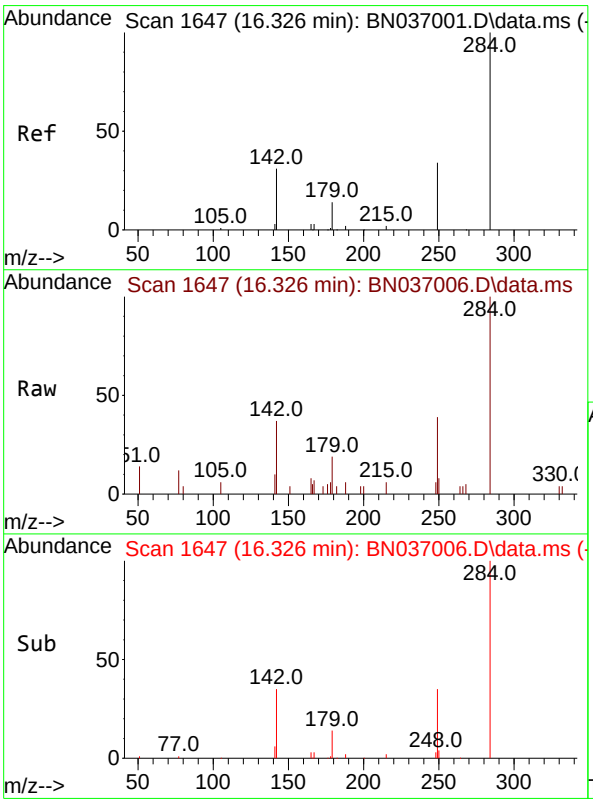
#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.214 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:248 Resp: 1326

Ion	Ratio	Lower	Upper
248	100		
250	100.1	78.1	117.1
141	73.0	59.7	89.5

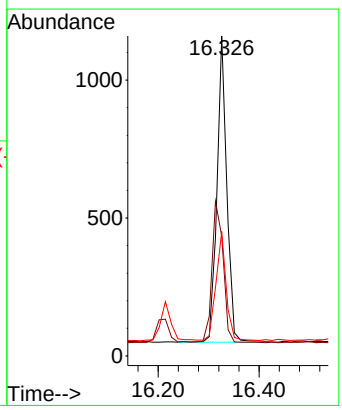


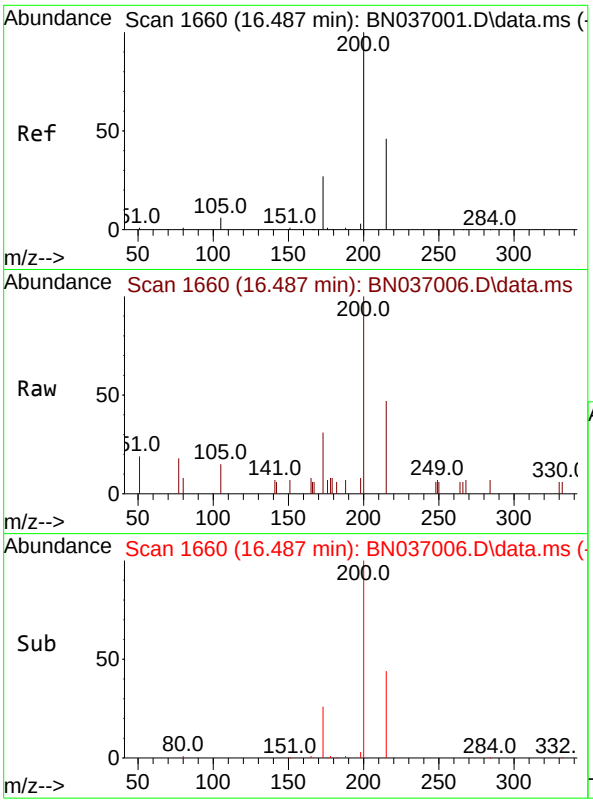


#22
Hexachlorobenzene
Concen: 0.411 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:284 Resp: 1488

Ion	Ratio	Lower	Upper
284	100		
142	53.0	41.2	61.8
249	37.0	28.7	43.1



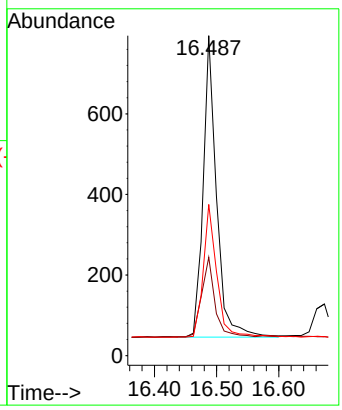


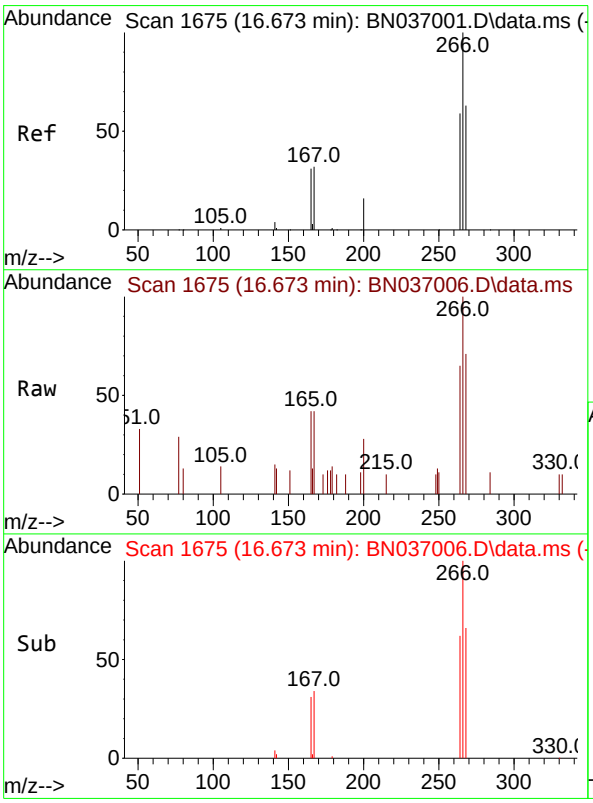
#23
Atrazine
Concen: 0.379 ng
RT: 16.487 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:200 Resp: 1120

Ion	Ratio	Lower	Upper
200	100		
173	30.7	25.2	37.8
215	47.2	39.3	58.9

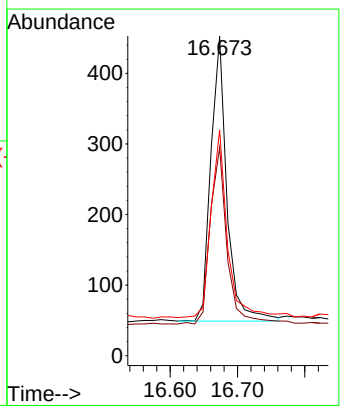


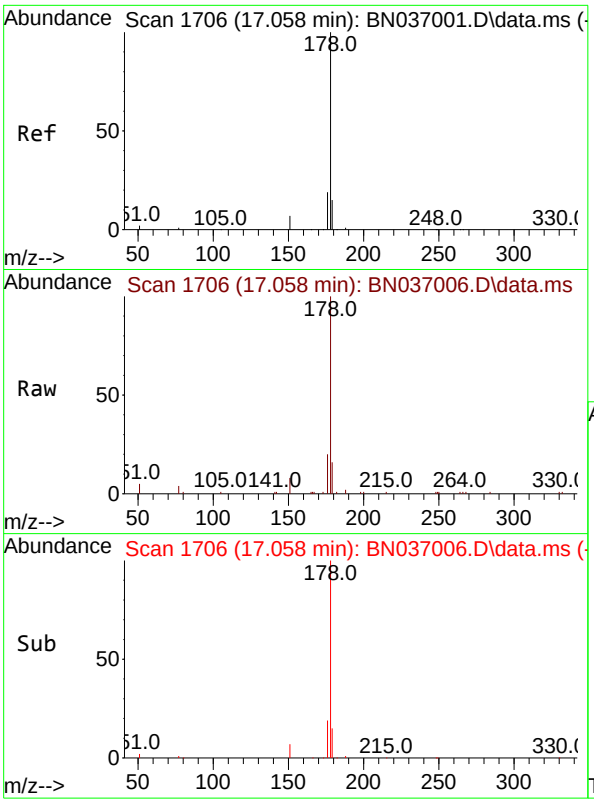


#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:266 Resp: 672

Ion	Ratio	Lower	Upper
266	100		
264	64.9	47.9	71.9
268	67.7	50.0	75.0



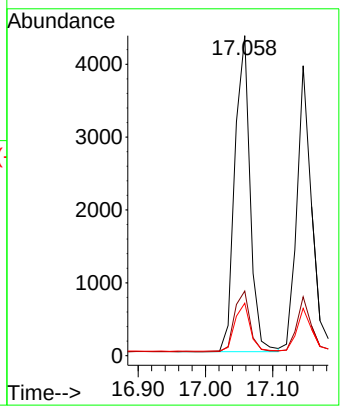


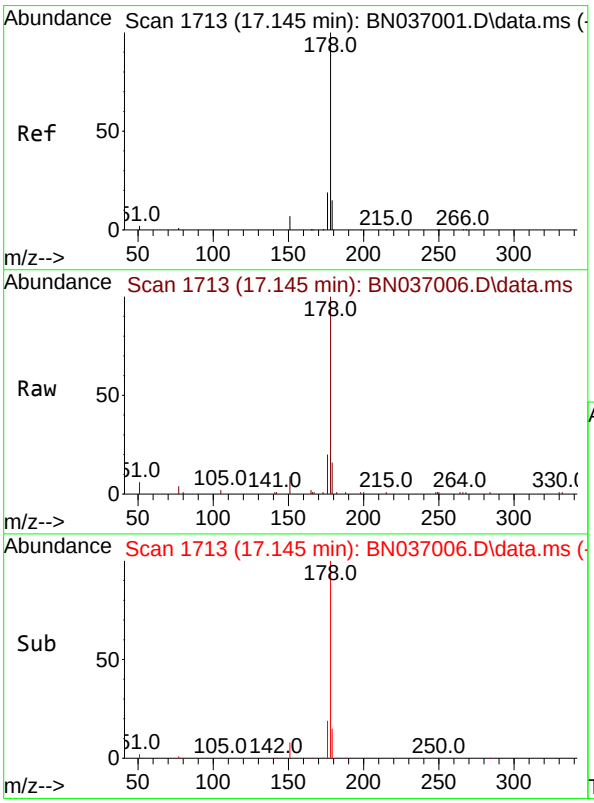
#25
Phenanthrene
Concen: 0.391 ng
RT: 17.058 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:178 Resp: 6852

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.6	12.2	18.2

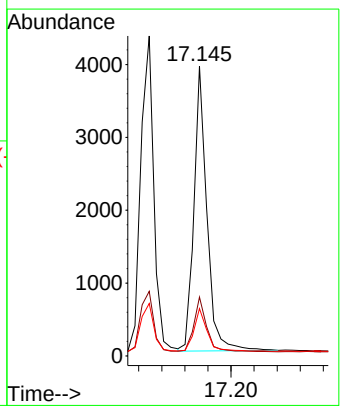


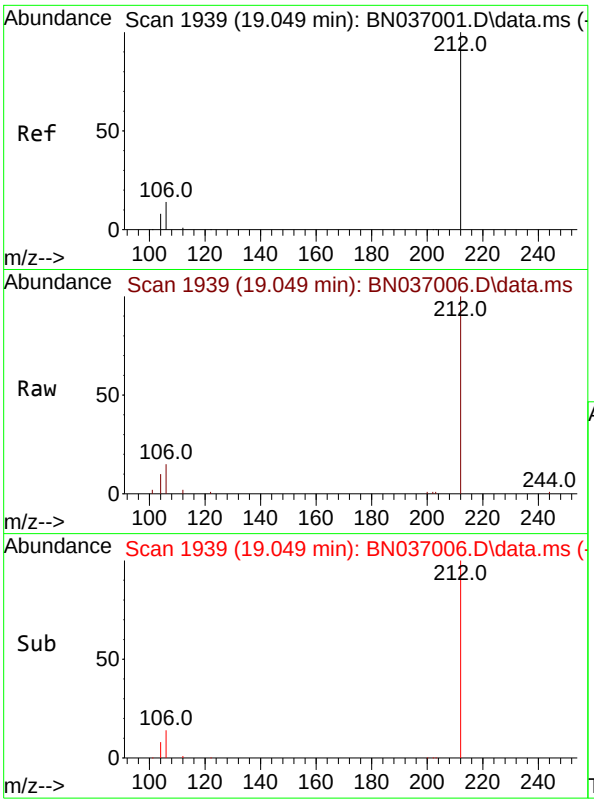


#26
Anthracene
Concen: 0.384 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:178 Resp: 6126

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.1	12.3	18.5



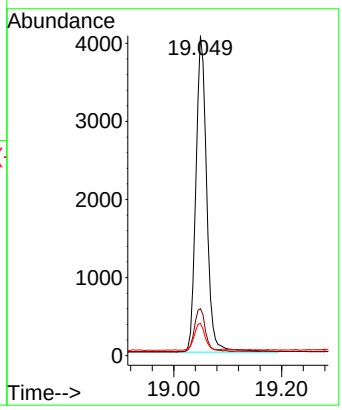


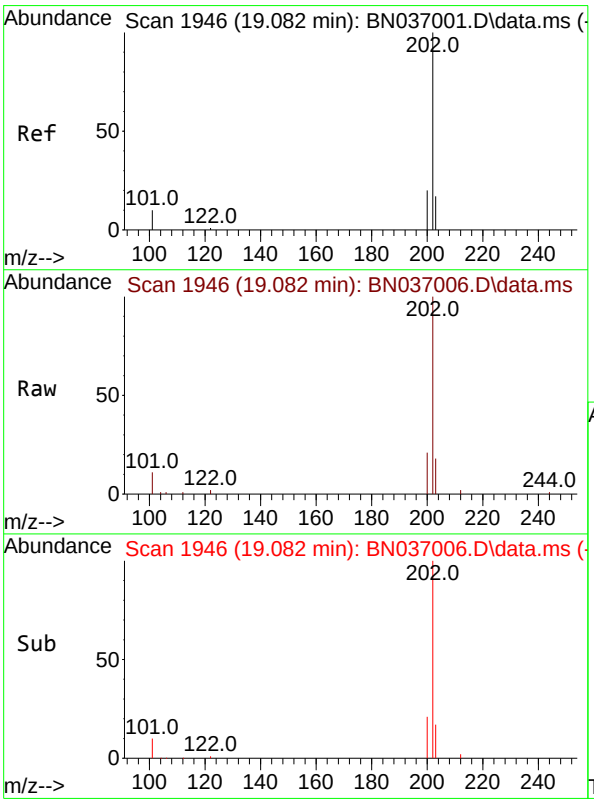
#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:212 Resp: 5648

Ion	Ratio	Lower	Upper
212	100		
106	13.9	11.3	16.9
104	8.5	6.7	10.1

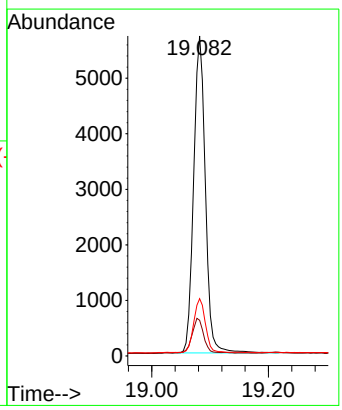


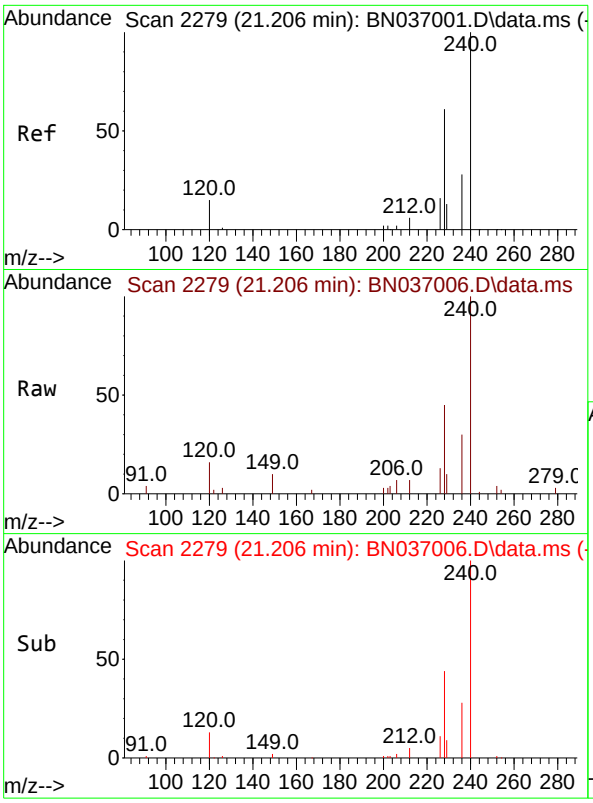


#28
Fluoranthene
Concen: 0.380 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:202 Resp: 7940

Ion	Ratio	Lower	Upper
202	100		
101	11.1	8.9	13.3
203	16.9	13.8	20.8



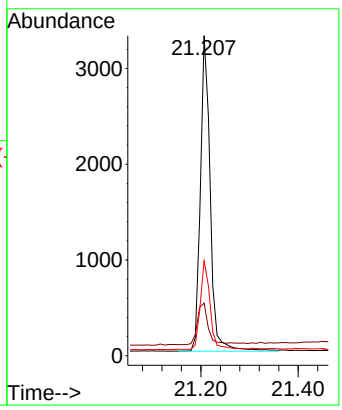


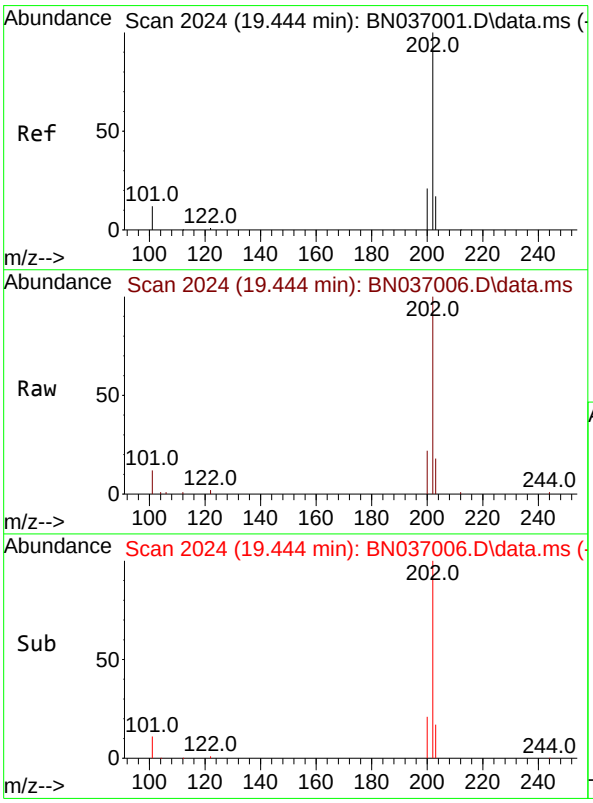
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:240 Resp: 4597

Ion	Ratio	Lower	Upper
240	100		
120	16.4	15.1	22.7
236	29.6	24.0	36.0

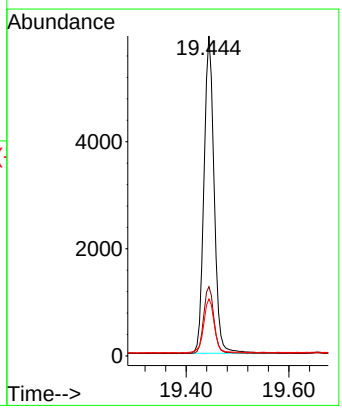


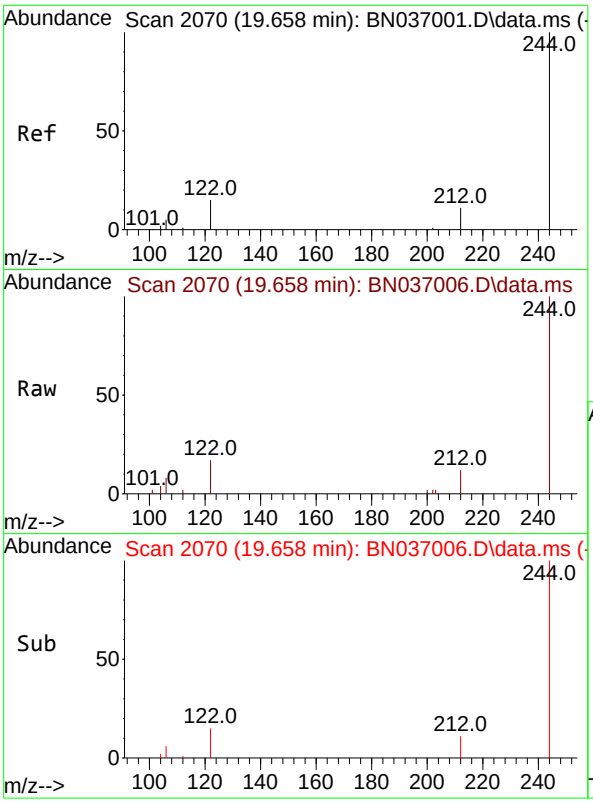


#30
Pyrene
Concen: 0.412 ng
RT: 19.444 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:202 Resp: 8093

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.7	14.2	21.4



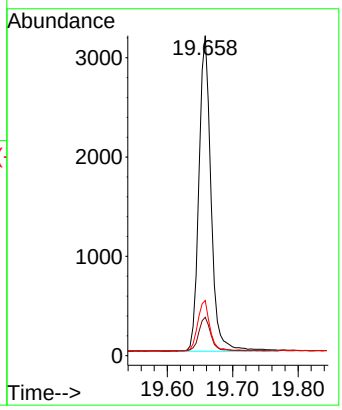


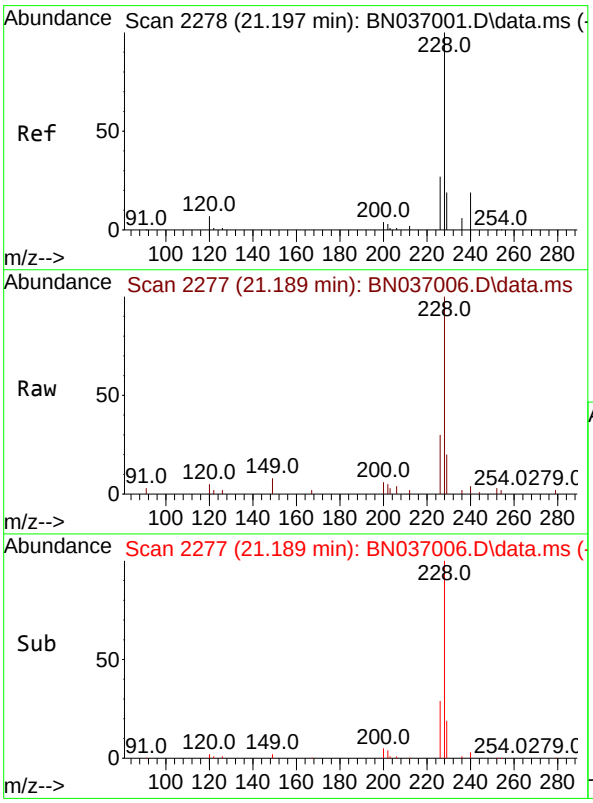
#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.658 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:244 Resp: 4080

Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.7	14.5
122	17.2	13.4	20.0

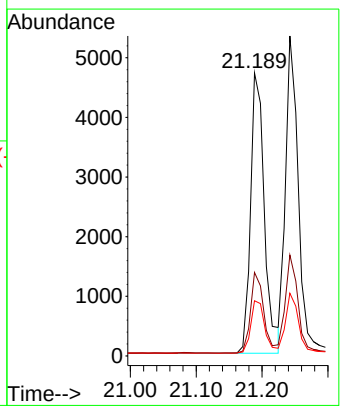


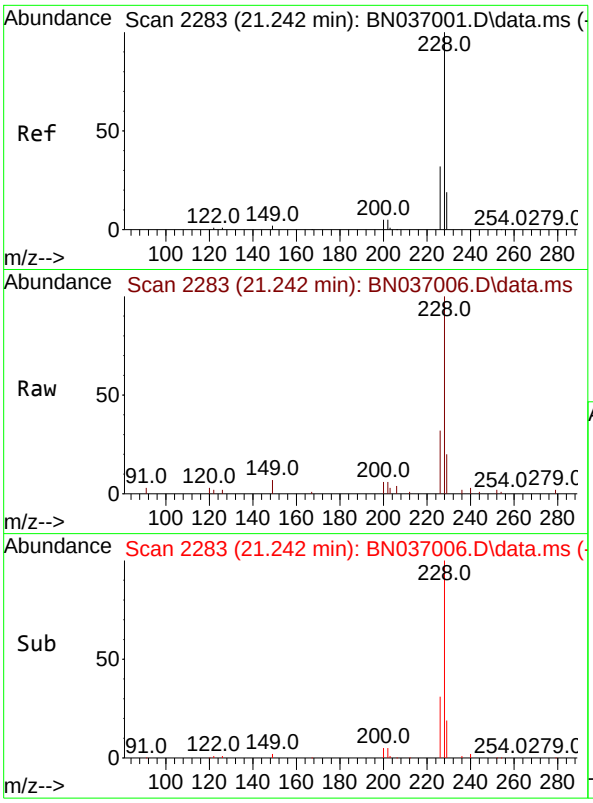


#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.009 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:228 Resp: 6824

Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.2	33.4
229	19.5	16.0	24.0



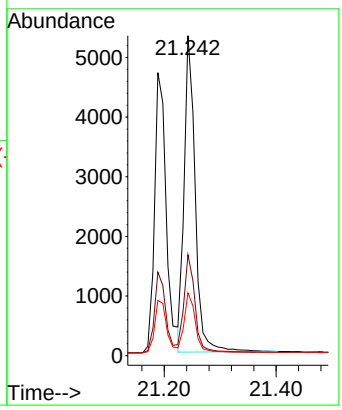


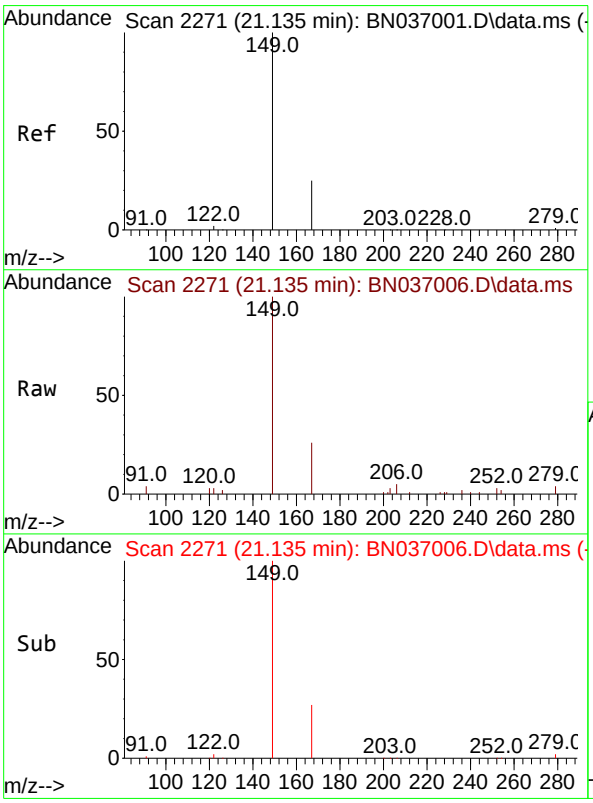
#33
Chrysene
Concen: 0.399 ng
RT: 21.242 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:228 Resp: 7298

Ion	Ratio	Lower	Upper
228	100		
226	31.6	26.3	39.5
229	19.6	16.2	24.2

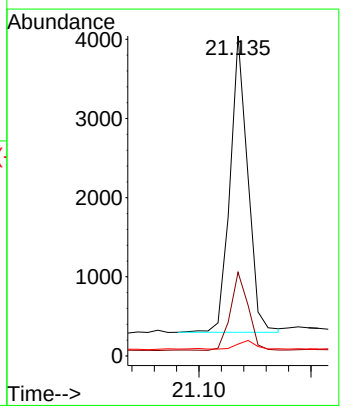


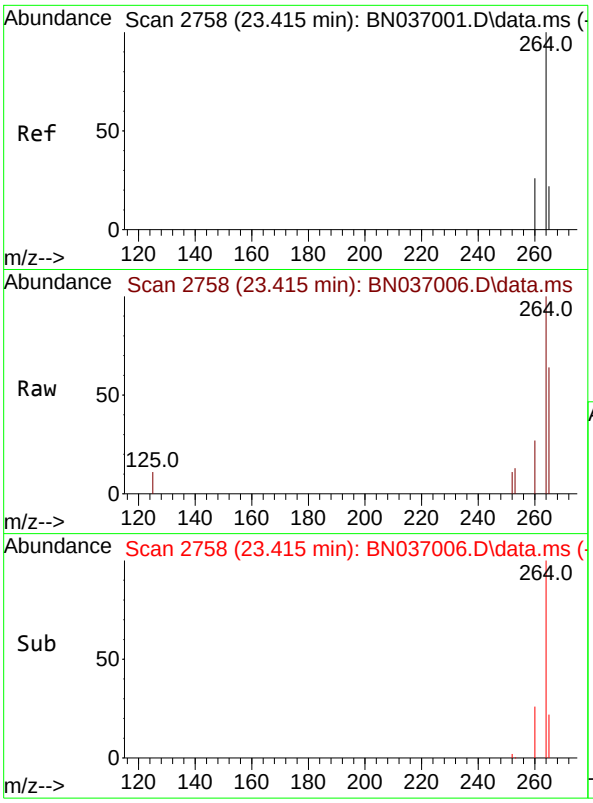


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.387 ng
RT: 21.135 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:149 Resp: 4120

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.6	30.8
279	2.9	2.6	3.8



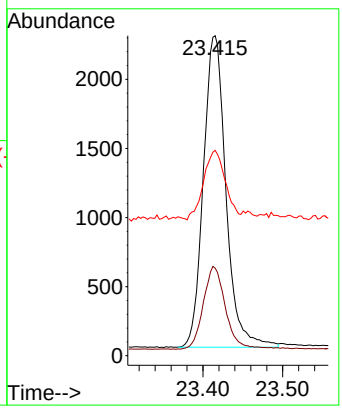


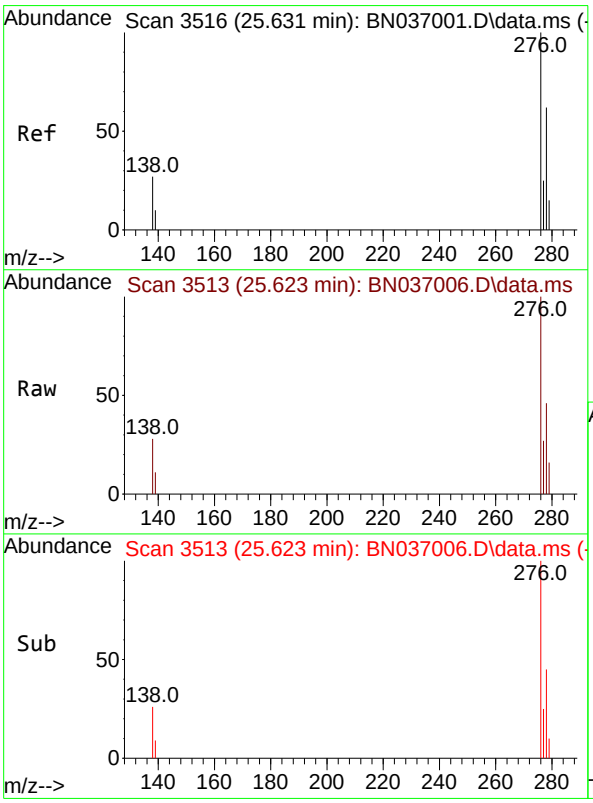
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:264 Resp: 4432

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.9	32.9
265	64.2	51.6	77.4

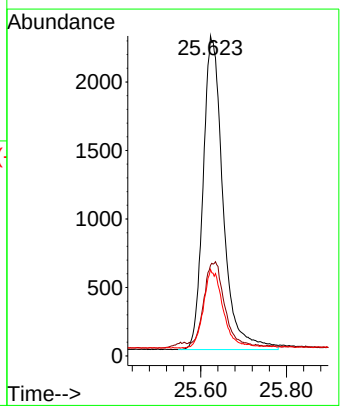


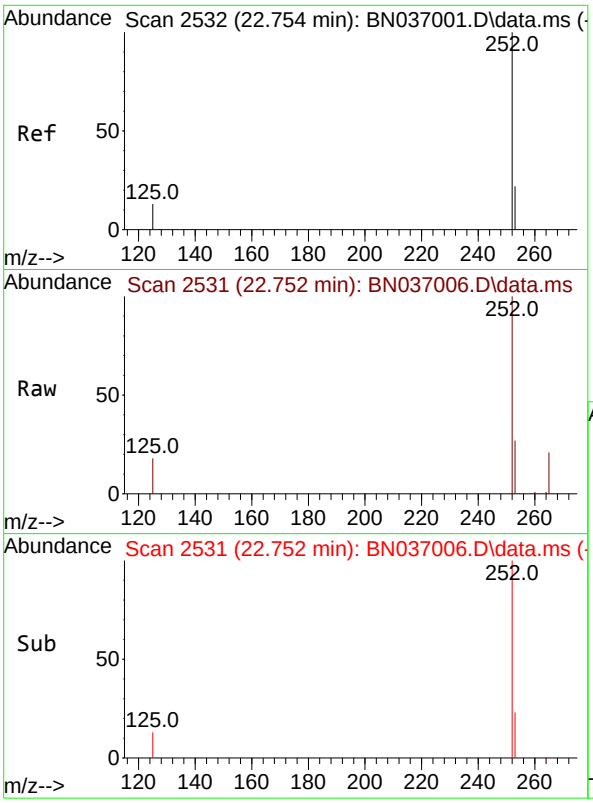


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 25.623 min Scan# 3513
Delta R.T. -0.009 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:276 Resp: 7358

Ion	Ratio	Lower	Upper
276	100		
138	26.6	22.7	34.1
277	24.6	20.0	30.0



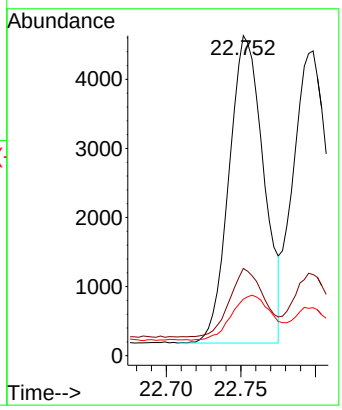


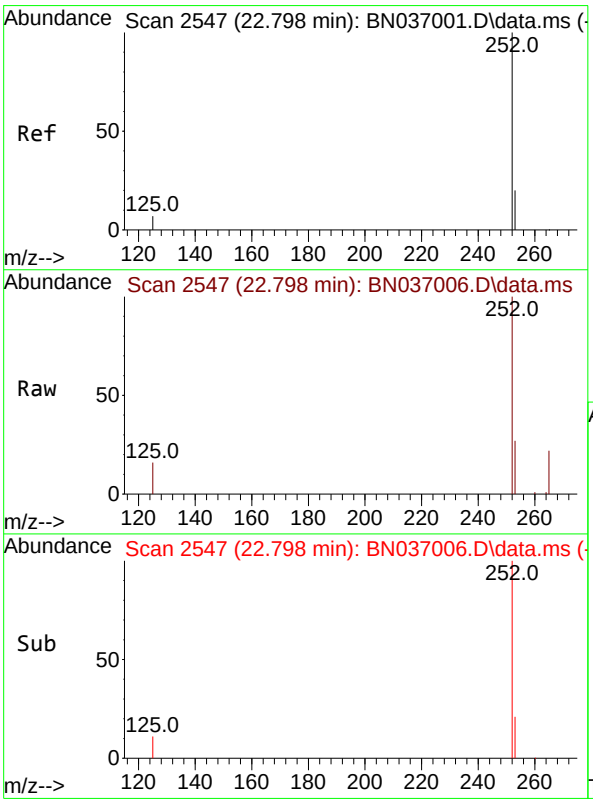
#37
Benzo(b)fluoranthene
Concen: 0.391 ng
RT: 22.752 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:252 Resp: 7184

Ion	Ratio	Lower	Upper
252	100		
253	27.3	21.8	32.6
125	17.7	14.6	21.8

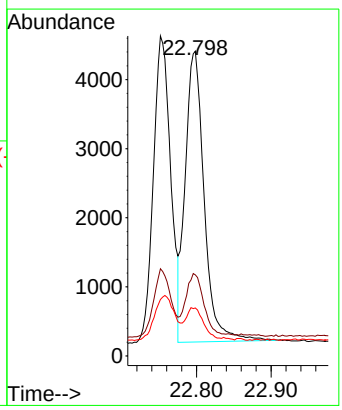


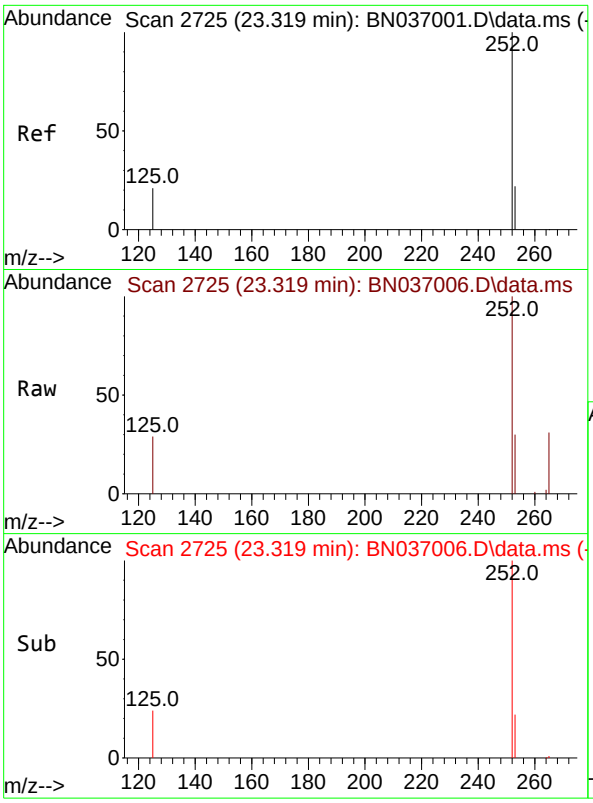


#38
Benzo(k)fluoranthene
Concen: 0.410 ng
RT: 22.798 min Scan# 2547
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:252 Resp: 7438

Ion	Ratio	Lower	Upper
252	100		
253	26.6	21.4	32.2
125	15.7	13.0	19.4



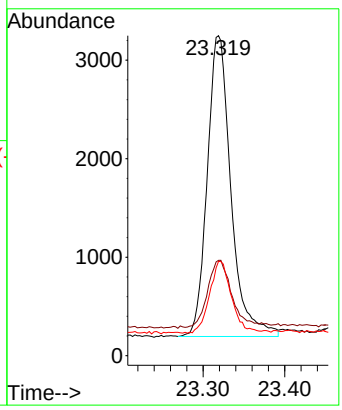


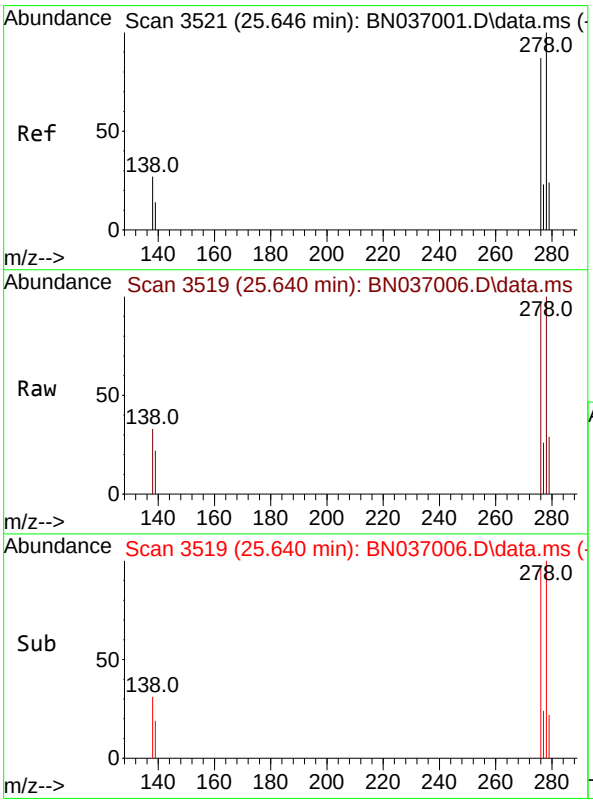
#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 23.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:252 Resp: 6167

Ion	Ratio	Lower	Upper
252	100		
253	29.8	23.8	35.6
125	29.5	21.8	32.6

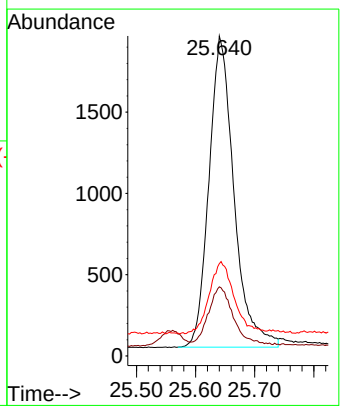


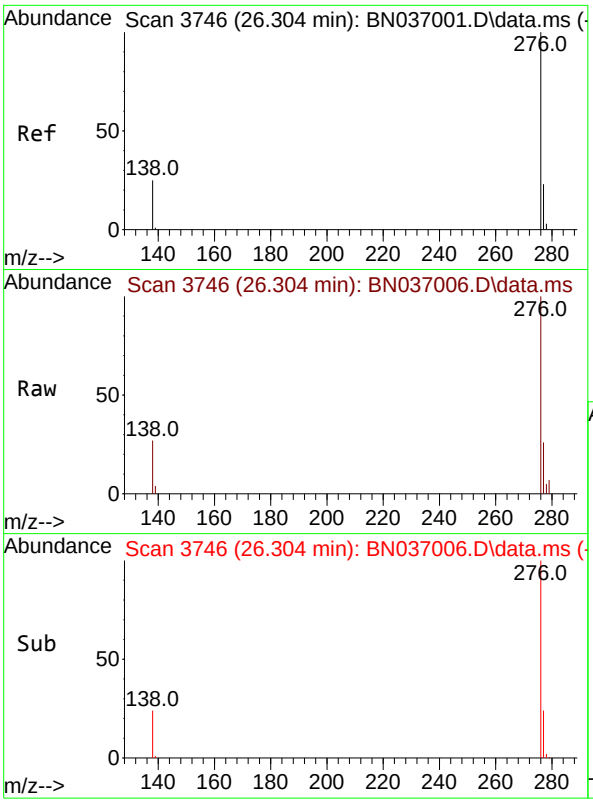


#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:278 Resp: 5621

Ion	Ratio	Lower	Upper
278	100		
139	21.6	17.4	26.0
279	28.8	24.6	37.0



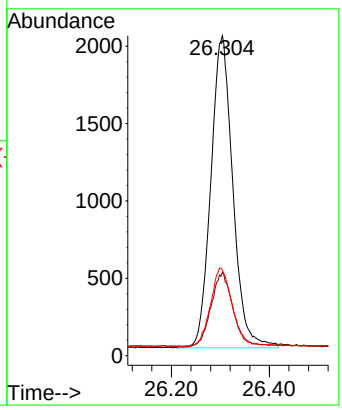


#41
Benzo(g,h,i)perylene
Concen: 0.409 ng
RT: 26.304 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Tgt Ion:276 Resp: 6268

Ion	Ratio	Lower	Upper
276	100		
277	26.1	20.2	30.4
138	26.7	22.0	33.0



Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037006.D
Acq On : 13 May 2025 22:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Quant Time: May 14 11:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	100	0.00
2		1,4-Dioxane	0.491	0.499	-1.6	98	0.00
3		n-Nitrosodimethylamine	1.054	1.029	2.4	105	0.00
4	S	2-Fluorophenol	1.048	1.109	-5.8	98	0.00
5	S	Phenol-d6	1.311	1.338	-2.1	97	0.00
6		bis(2-Chloroethyl)ether	1.207	1.157	4.1	101	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8	S	Nitrobenzene-d5	0.436	0.413	5.3	105	0.00
9		Naphthalene	1.182	1.150	2.7	102	0.00
10		Hexachlorobutadiene	0.248	0.246	0.8	103	-0.01
11	SURR	2-Methylnaphthalene-d10	0.563	0.566	-0.5	104	0.00
12		2-Methylnaphthalene	0.760	0.753	0.9	104	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
14	S	2,4,6-Tribromophenol	0.176	0.174	1.1	104	0.00
15	S	2-Fluorobiphenyl	1.832	1.858	-1.4	104	0.00
16		Acenaphthylene	1.947	1.845	5.2	103	0.00
17		Acenaphthene	1.272	1.232	3.1	105	0.00
18		Fluorene	1.669	1.617	3.1	105	0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
20		4,6-Dinitro-2-methylphenol	0.090	0.077	14.4	112	0.00
21		4-Bromophenyl-phenylether	0.253	0.247	2.4	106	0.00
22		Hexachlorobenzene	0.270	0.278	-3.0	106	0.00
23		Atrazine	0.220	0.209	5.0	106	0.00
24		Pentachlorophenol	0.149	0.125	16.1	95	0.00
25		Phenanthrene	1.307	1.279	2.1	106	0.00
26		Anthracene	1.190	1.143	3.9	105	0.00
27	SURR	Fluoranthene-d10	1.097	1.054	3.9	105	0.00
28		Fluoranthene	1.562	1.482	5.1	106	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30		Pyrene	1.711	1.760	-2.9	105	0.00
31	S	Terphenyl-d14	0.856	0.888	-3.7	105	0.00
32		Benzo(a)anthracene	1.506	1.484	1.5	103	0.00
33		Chrysene	1.593	1.588	0.3	101	0.00
34		Bis(2-ethylhexyl)phthalate	0.927	0.896	3.3	102	0.00
35	I	Perylene-d12	1.000	1.000	0.0	98	0.00
36		Indeno(1,2,3-cd)pyrene	1.634	1.660	-1.6	99	0.00
37		Benzo(b)fluoranthene	1.659	1.621	2.3	99	0.00
38		Benzo(k)fluoranthene	1.639	1.678	-2.4	100	0.00
39	C	Benzo(a)pyrene	1.407	1.391	1.1	99	0.00
40		Dibenzo(a,h)anthracene	1.272	1.268	0.3	98	0.00
41		Benzo(g,h,i)perylene	1.383	1.414	-2.2	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037006.D
Acq On : 13 May 2025 22:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Quant Time: May 14 11:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	100	0.00
2		1,4-Dioxane	0.400	0.407	-1.7	98	0.00
3		n-Nitrosodimethylamine	0.400	0.390	2.5	105	0.00
4	S	2-Fluorophenol	0.400	0.423	-5.7	98	0.00
5	S	Phenol-d6	0.400	0.408	-2.0	97	0.00
6		bis(2-Chloroethyl)ether	0.400	0.383	4.3	101	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8	S	Nitrobenzene-d5	0.400	0.379	5.3	105	0.00
9		Naphthalene	0.400	0.389	2.8	102	0.00
10		Hexachlorobutadiene	0.400	0.397	0.8	103	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.402	-0.5	104	0.00
12		2-Methylnaphthalene	0.400	0.396	1.0	104	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	106	0.00
14	S	2,4,6-Tribromophenol	0.400	0.397	0.8	104	0.00
15	S	2-Fluorobiphenyl	0.400	0.406	-1.5	104	0.00
16		Acenaphthylene	0.400	0.379	5.3	103	0.00
17		Acenaphthene	0.400	0.387	3.3	105	0.00
18		Fluorene	0.400	0.388	3.0	105	0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	107	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.396	1.0	112	0.00
21		4-Bromophenyl-phenylether	0.400	0.392	2.0	106	0.00
22		Hexachlorobenzene	0.400	0.411	-2.7	106	0.00
23		Atrazine	0.400	0.379	5.3	106	0.00
24		Pentachlorophenol	0.400	0.336	16.0	95	0.00
25		Phenanthrene	0.400	0.391	2.3	106	0.00
26		Anthracene	0.400	0.384	4.0	105	0.00
27	SURR	Fluoranthene-d10	0.400	0.384	4.0	105	0.00
28		Fluoranthene	0.400	0.380	5.0	106	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30		Pyrene	0.400	0.412	-3.0	105	0.00
31	S	Terphenyl-d14	0.400	0.415	-3.7	105	0.00
32		Benzo(a)anthracene	0.400	0.394	1.5	103	0.00
33		Chrysene	0.400	0.399	0.3	101	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.387	3.3	102	0.00
35	I	Perylene-d12	0.400	0.400	0.0	98	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.407	-1.7	99	0.00
37		Benzo(b)fluoranthene	0.400	0.391	2.3	99	0.00
38		Benzo(k)fluoranthene	0.400	0.410	-2.5	100	0.00
39	C	Benzo(a)pyrene	0.400	0.395	1.3	99	0.00
40		Dibenzo(a,h)anthracene	0.400	0.399	0.3	98	0.00
41		Benzo(g,h,i)perylene	0.400	0.409	-2.2	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: BNA_N Calibration Date/Time: 05/28/2025 17:11

Lab File ID: BN037112.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.552		-2.0	20.0
Fluoranthene-d10	1.097	0.986		-10.1	20.0
2-Fluorophenol	1.048	0.938		-10.5	20.0
Phenol-d6	1.311	1.123		-14.3	20.0
Nitrobenzene-d5	0.436	0.426		-2.3	20.0
2-Fluorobiphenyl	1.832	1.889		3.1	20.0
2,4,6-Tribromophenol	0.176	0.145		-17.6	20.0
Terphenyl-d14	0.856	0.888		3.7	20.0
1,4-Dioxane	0.491	0.489		-0.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037112.D
Acq On : 28 May 2025 17:11
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: May 28 17:56:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

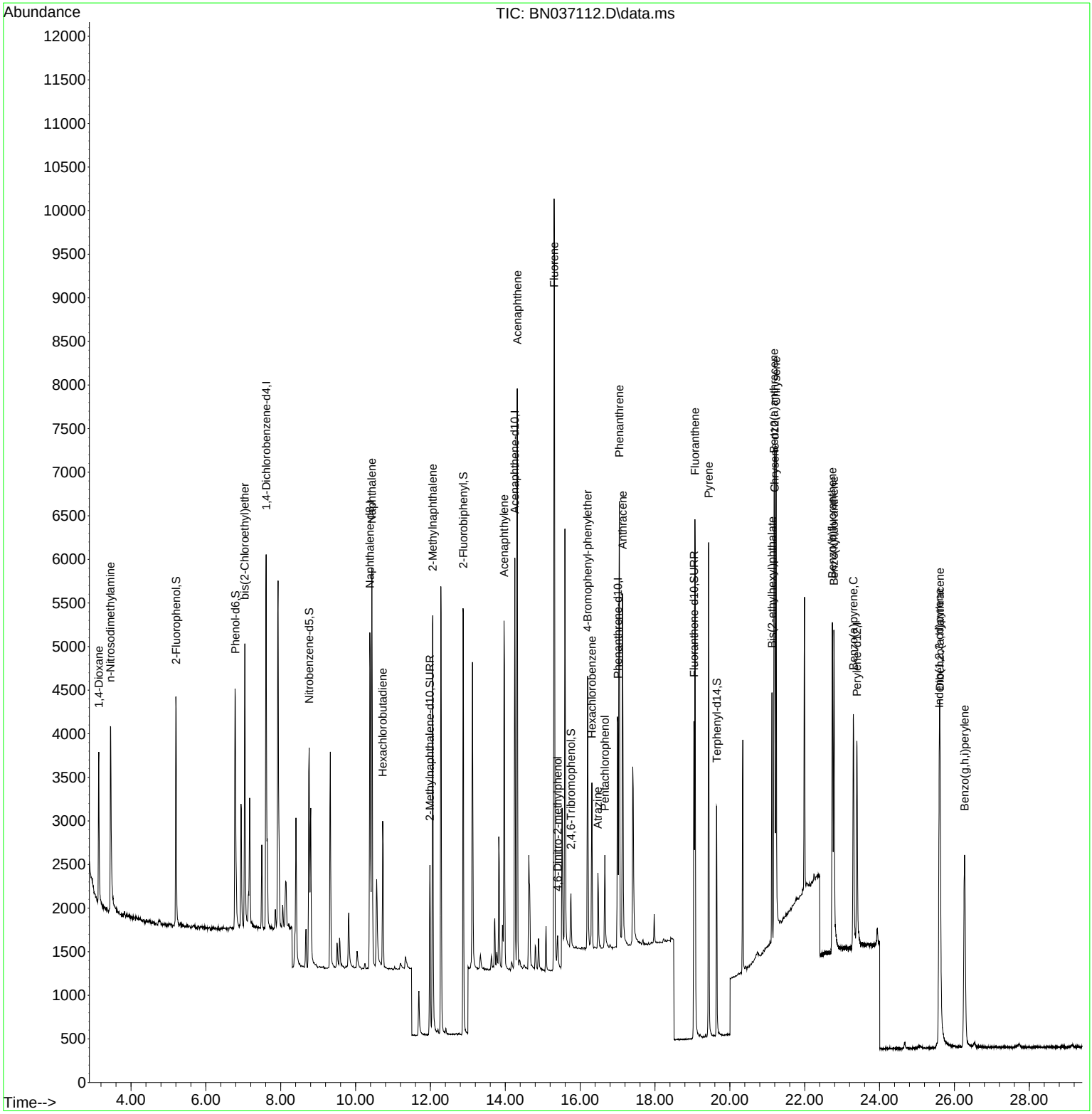
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2022	0.400	ng	0.00
7) Naphthalene-d8	10.383	136	5050	0.400	ng	#-0.02
13) Acenaphthene-d10	14.256	164	2480	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4231	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3037	0.400	ng	# 0.00
35) Perylene-d12	23.395	264	3091	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1896	0.358	ng	0.00
5) Phenol-d6	6.788	99	2270	0.342	ng	0.00
8) Nitrobenzene-d5	8.760	82	2149	0.391	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	2789	0.392	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	359	0.330	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	4684	0.412	ng	-0.01
27) Fluoranthene-d10	19.040	212	4172	0.360	ng	0.00
31) Terphenyl-d14	19.649	244	2697	0.415	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	989	0.399	ng	96
3) n-Nitrosodimethylamine	3.451	42	2132	0.400	ng	# 89
6) bis(2-Chloroethyl)ether	7.040	93	2224	0.365	ng	98
9) Naphthalene	10.436	128	5722	0.383	ng	99
10) Hexachlorobutadiene	10.725	225	1302	0.416	ng	# 99
12) 2-Methylnaphthalene	12.062	142	3464	0.361	ng	98
16) Acenaphthylene	13.967	152	4556	0.377	ng	99
17) Acenaphthene	14.320	154	2978	0.378	ng	98
18) Fluorene	15.304	166	3731	0.361	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	325	0.398	ng	91
21) 4-Bromophenyl-phenylether	16.202	248	1086	0.406	ng	96
22) Hexachlorobenzene	16.313	284	1215	0.425	ng	98
23) Atrazine	16.475	200	821	0.352	ng	95
24) Pentachlorophenol	16.661	266	552	0.350	ng	97
25) Phenanthrene	17.046	178	5218	0.377	ng	99
26) Anthracene	17.133	178	4596	0.365	ng	99
28) Fluoranthene	19.068	202	5380	0.326	ng	100
30) Pyrene	19.435	202	5421	0.417	ng	99
32) Benzo(a)anthracene	21.180	228	4179	0.365	ng	98
33) Chrysene	21.233	228	4833	0.400	ng	99
34) Bis(2-ethylhexyl)phtha...	21.126	149	2513	0.357	ng	99
36) Indeno(1,2,3-cd)pyrene	25.593	276	5085	0.403	ng	97
37) Benzo(b)fluoranthene	22.740	252	4587	0.358	ng	97
38) Benzo(k)fluoranthene	22.781	252	4707	0.372	ng	96
39) Benzo(a)pyrene	23.301	252	3993	0.367	ng	98
40) Dibenzo(a,h)anthracene	25.614	278	3956	0.402	ng	98
41) Benzo(g,h,i)perylene	26.272	276	4539	0.425	ng	99

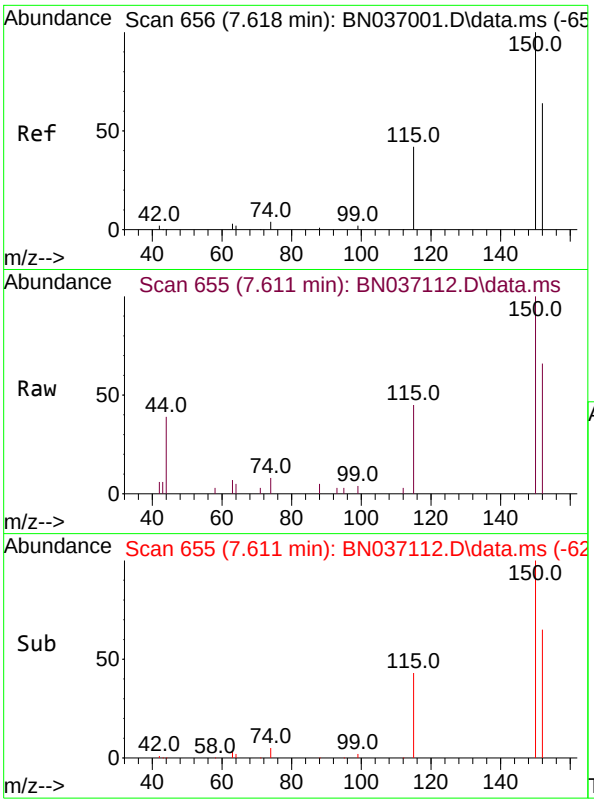
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037112.D
Acq On : 28 May 2025 17:11
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: May 28 17:56:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



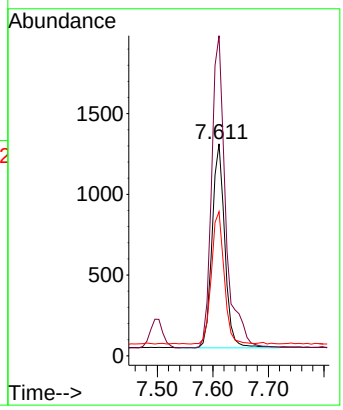


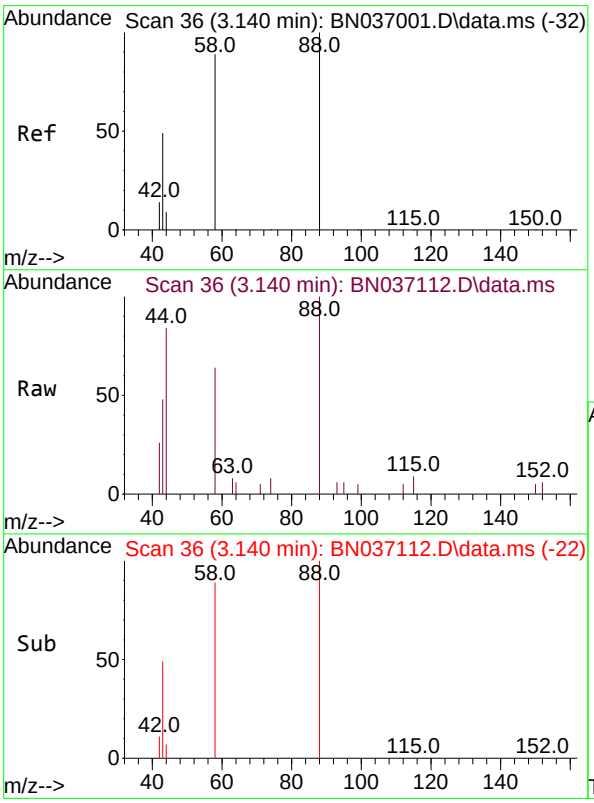
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2022

Ion	Ratio	Lower	Upper
152	100		
150	151.0	123.9	185.9
115	68.0	55.8	83.8

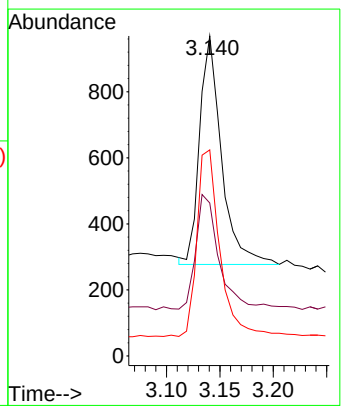


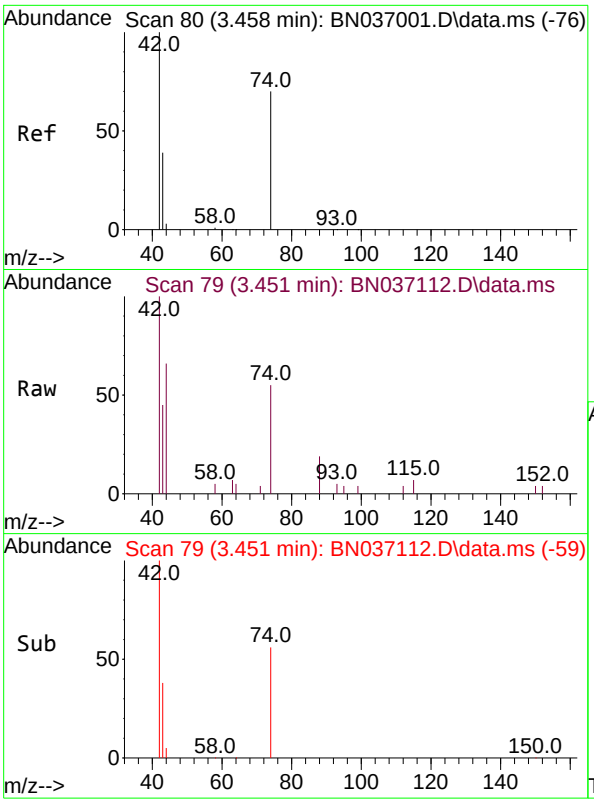


#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion: 88 Resp: 989

Ion	Ratio	Lower	Upper
88	100		
43	52.6	37.4	56.0
58	85.1	68.8	103.2



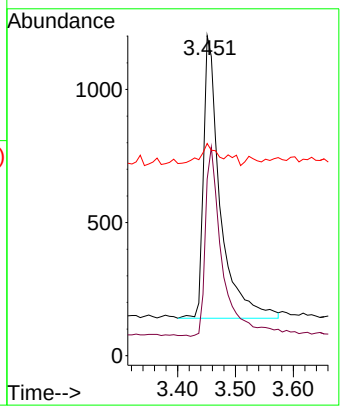


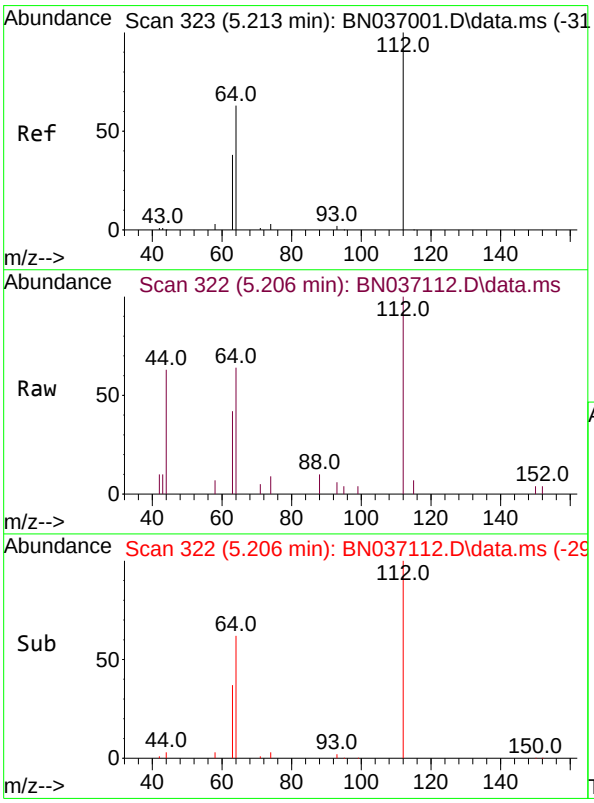
#3
n-Nitrosodimethylamine
Concen: 0.400 ng
RT: 3.451 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2132

Ion	Ratio	Lower	Upper
42	100		
74	67.1	59.8	89.6
44	6.0	11.9	17.9#

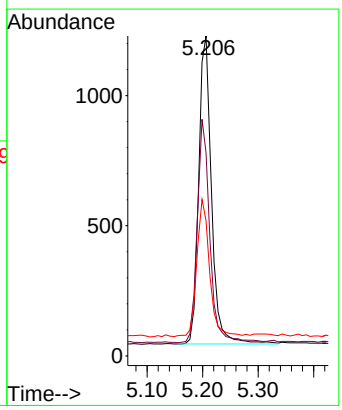


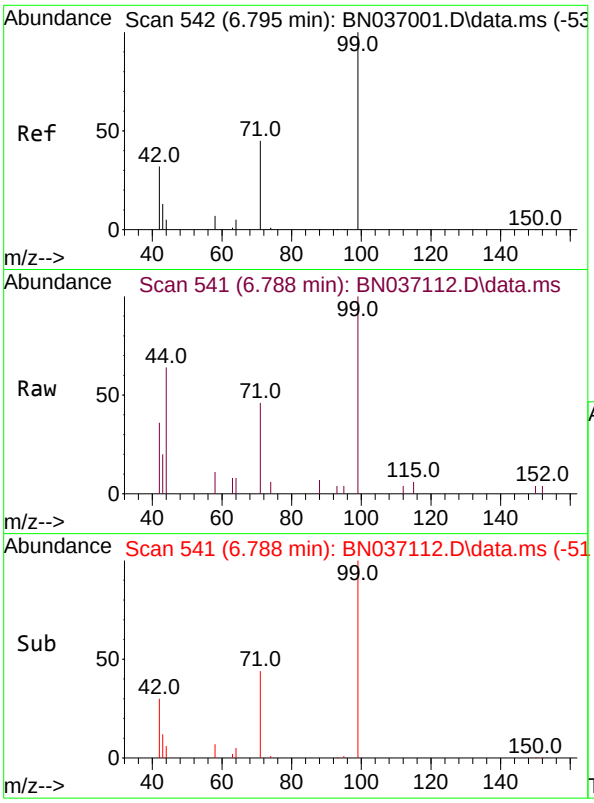


#4
2-Fluorophenol
Concen: 0.358 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:112 Resp: 1896

Ion	Ratio	Lower	Upper
112	100		
64	71.1	55.7	83.5
63	44.6	34.6	51.8



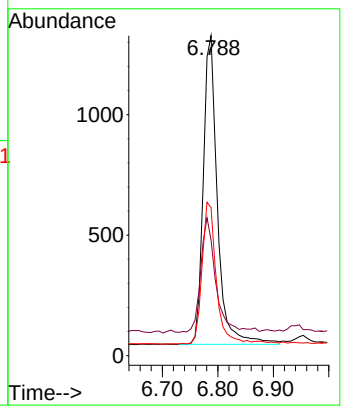


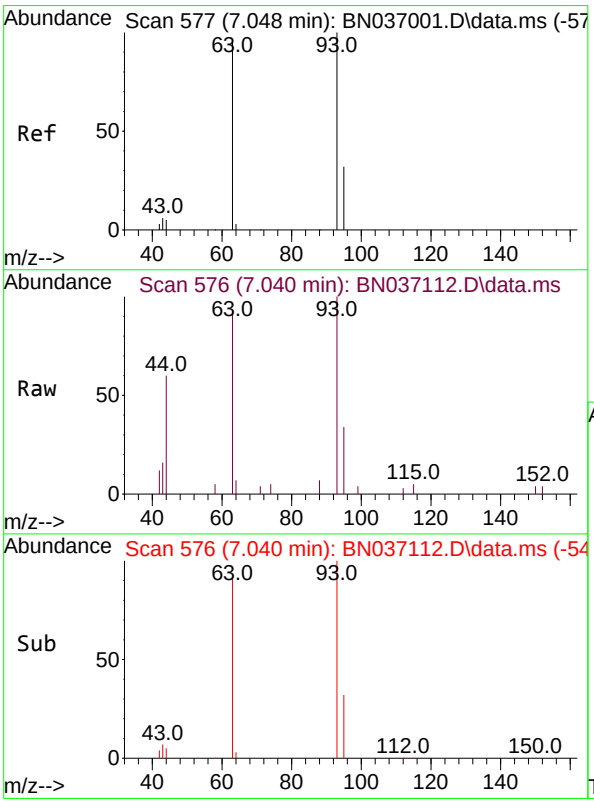
#5
Phenol-d6
Concen: 0.342 ng
RT: 6.788 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2270

Ion	Ratio	Lower	Upper
99	100		
42	39.6	29.3	43.9
71	47.3	35.7	53.5

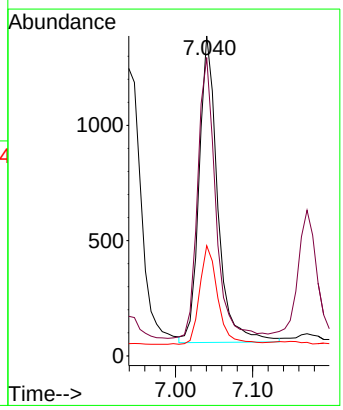


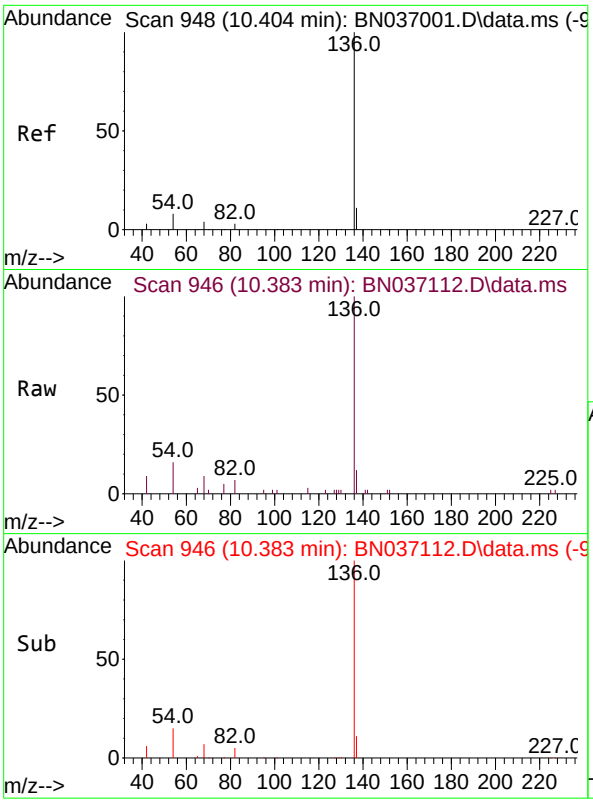


#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion: 93 Resp: 2224

Ion	Ratio	Lower	Upper
93	100		
63	89.8	70.1	105.1
95	31.4	26.2	39.2



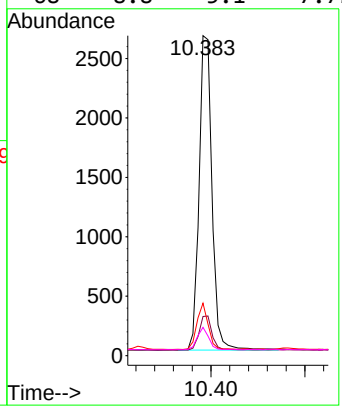


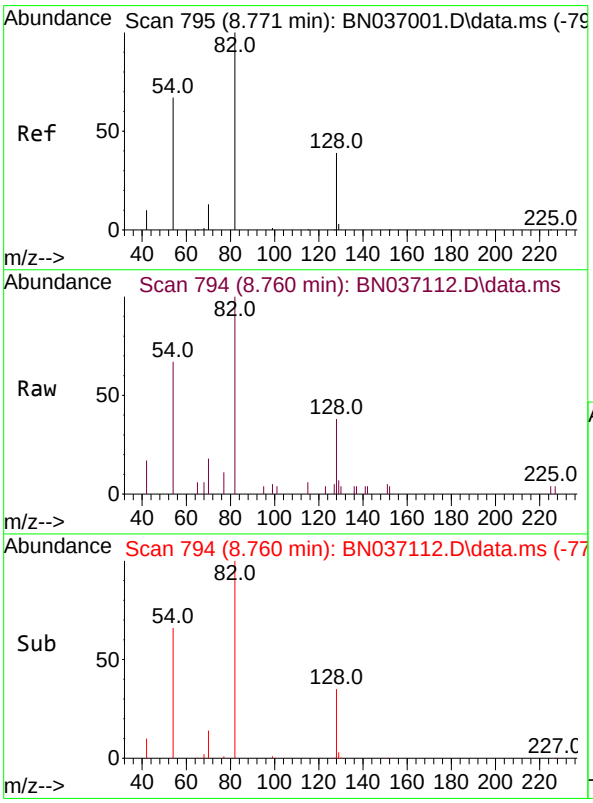
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5050

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.4	15.6
54	16.4	8.5	12.7#
68	8.8	5.1	7.7#

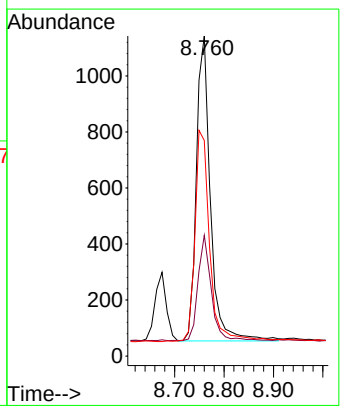


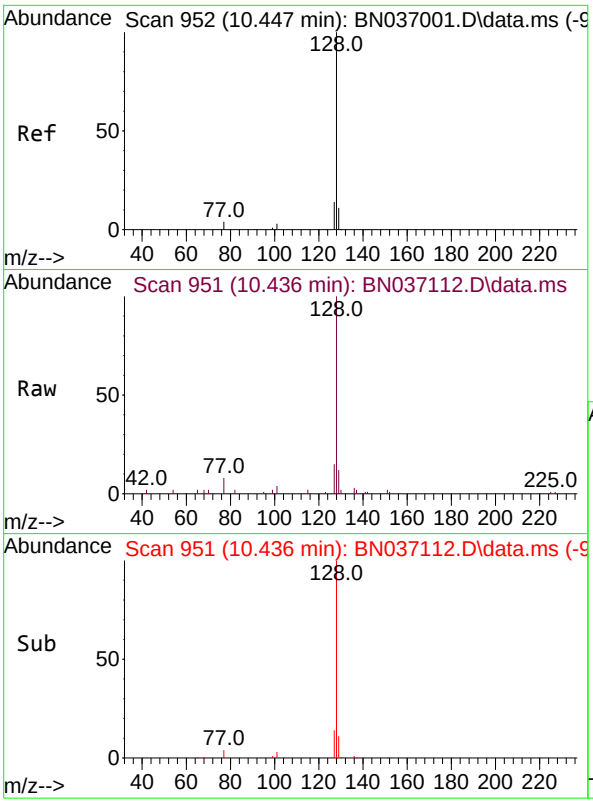


#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion: 82 Resp: 2149

Ion	Ratio	Lower	Upper
82	100		
128	37.7	34.0	51.0
54	67.4	55.0	82.4



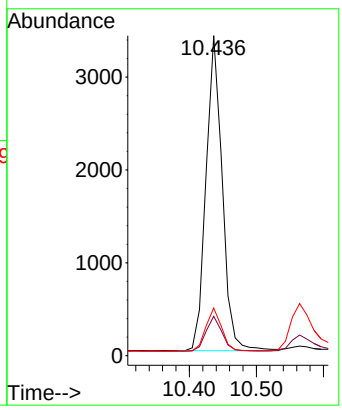


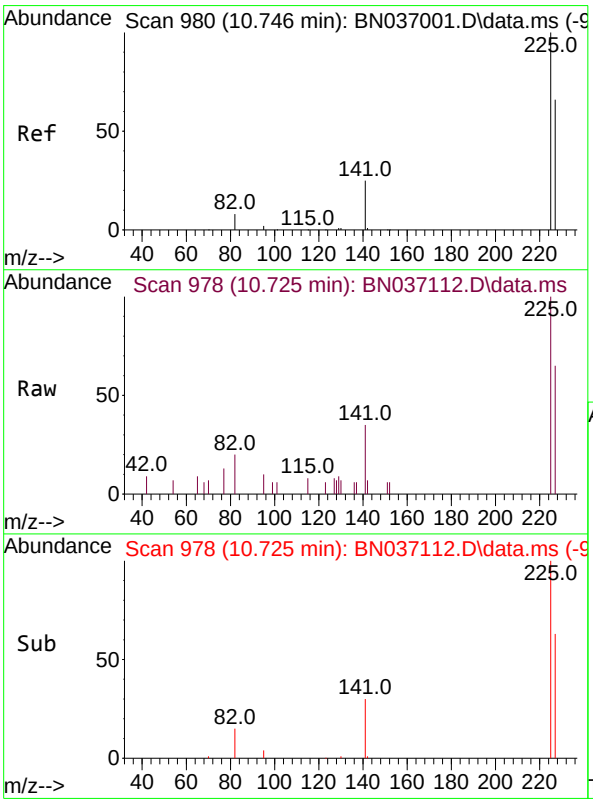
#9
Naphthalene
Concen: 0.383 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 5722

Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.7	14.5
127	14.9	12.4	18.6

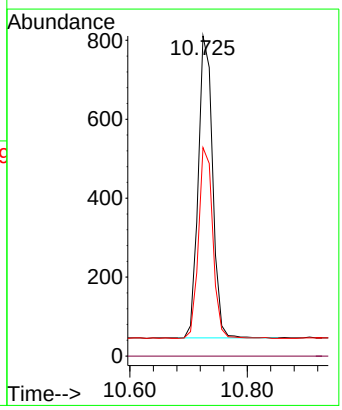


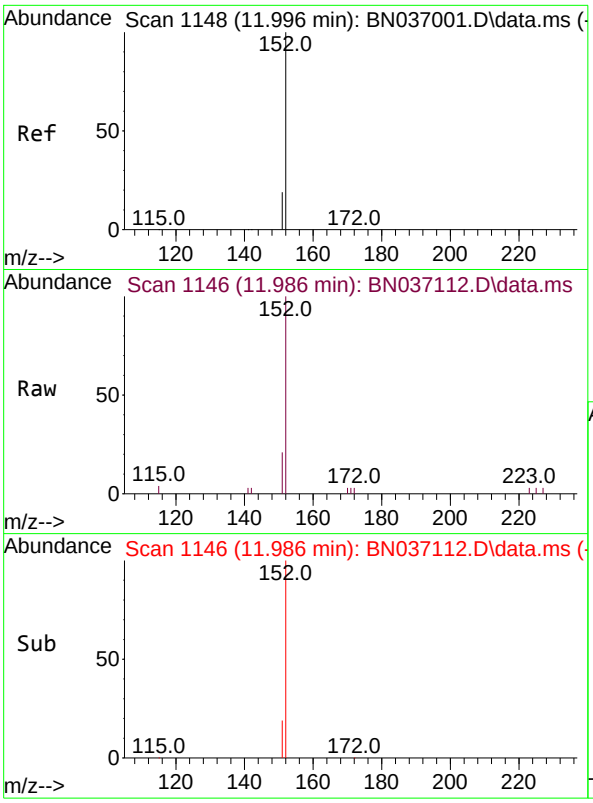


#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.725 min Scan# 978
Delta R.T. -0.021 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:225 Resp: 1302

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.8	50.9	76.3



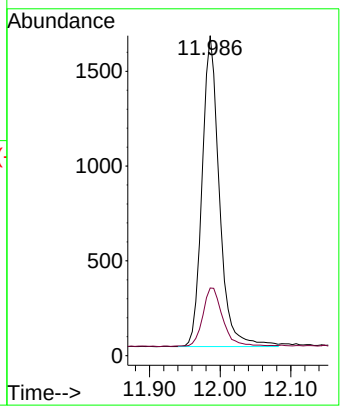


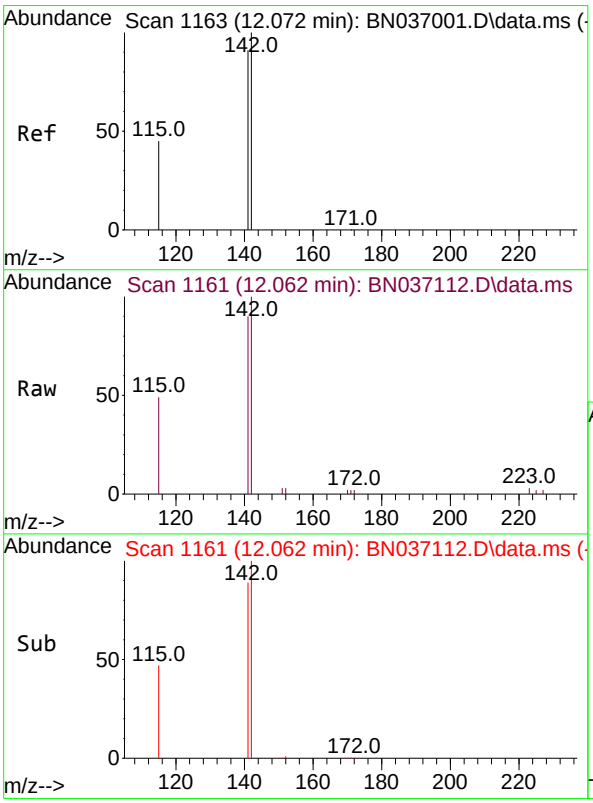
#11
2-Methylnaphthalene-d10
Concen: 0.392 ng
RT: 11.986 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2789

Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.5	26.3

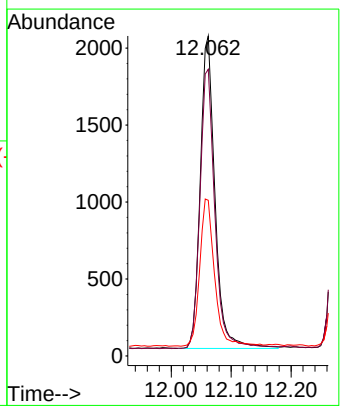


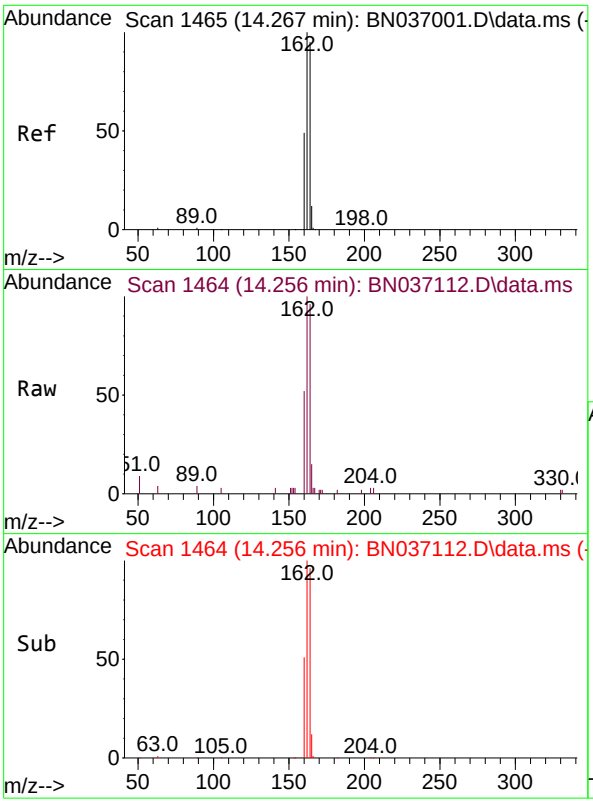


#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:142 Resp: 3464

Ion	Ratio	Lower	Upper
142	100		
141	89.6	73.3	109.9
115	48.7	38.4	57.6



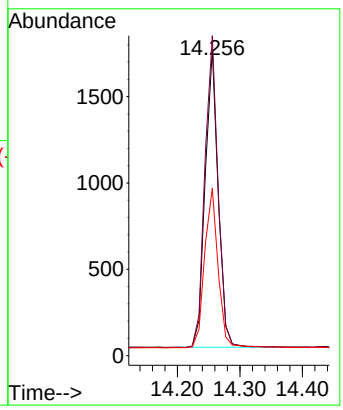


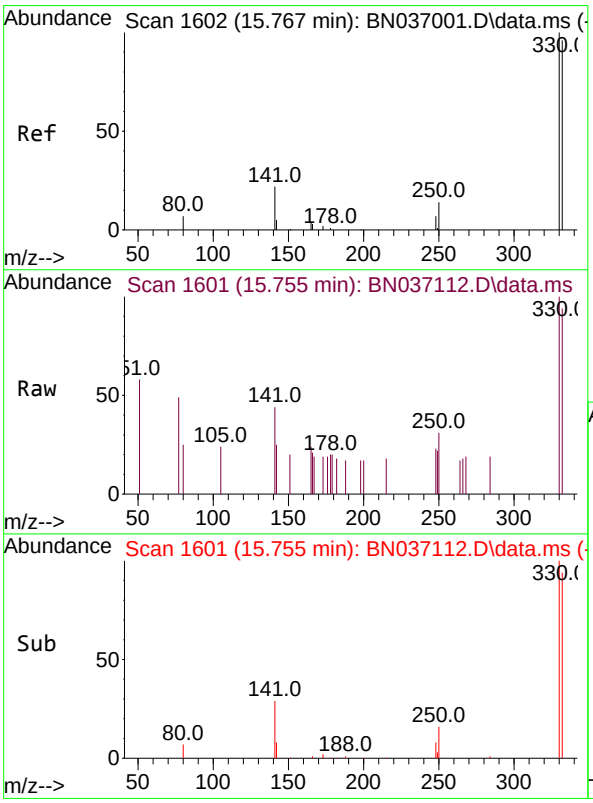
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 2480

Ion	Ratio	Lower	Upper
164	100		
162	104.5	84.2	126.4
160	54.7	42.6	63.8

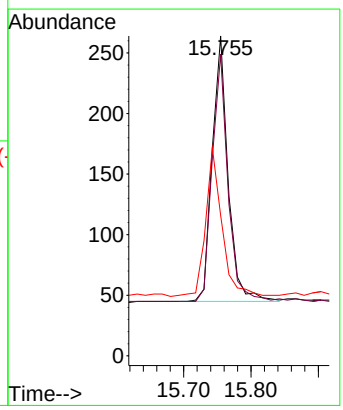


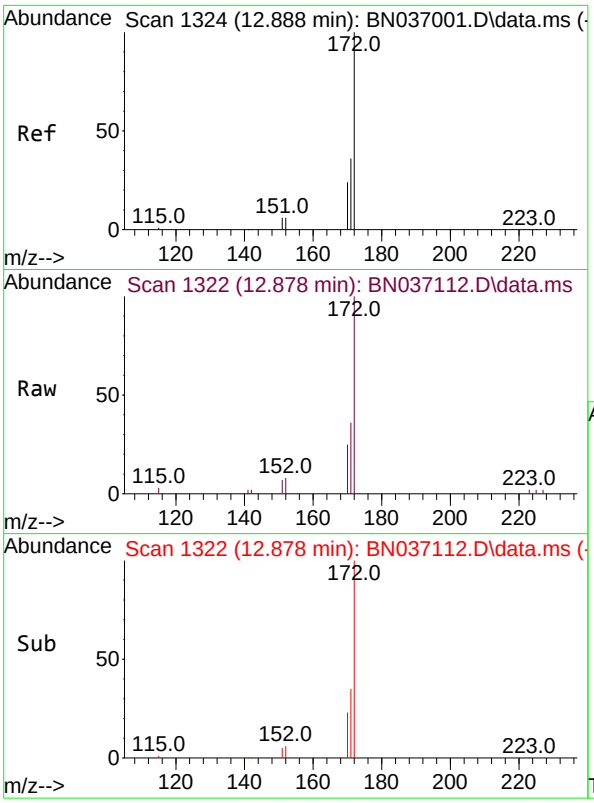


#14
2,4,6-Tribromophenol
Concen: 0.330 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:330 Resp: 359

Ion	Ratio	Lower	Upper
330	100		
332	93.6	73.8	110.8
141	57.7	43.9	65.9



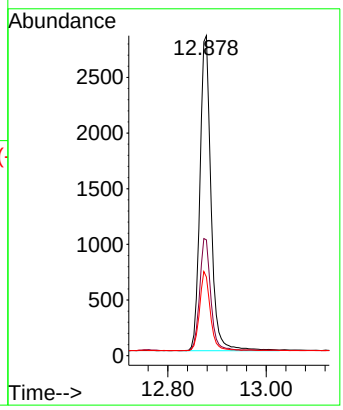


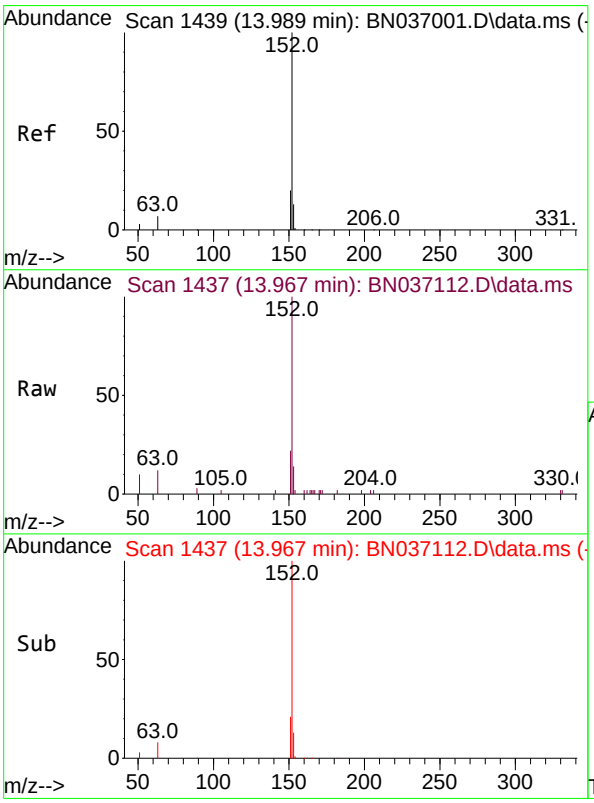
#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 12.878 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 4684

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.2	43.8
170	24.6	20.5	30.7

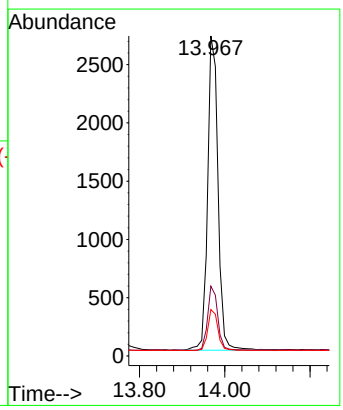


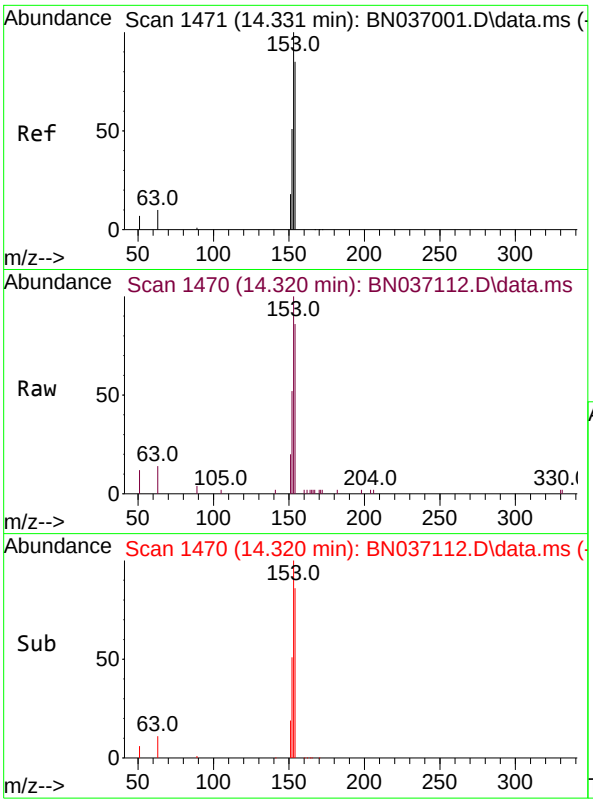


#16
Acenaphthylene
Concen: 0.377 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:152 Resp: 4556

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	12.9	10.5	15.7



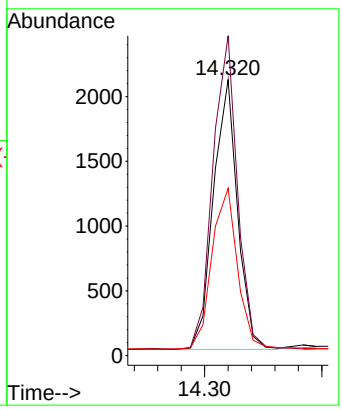


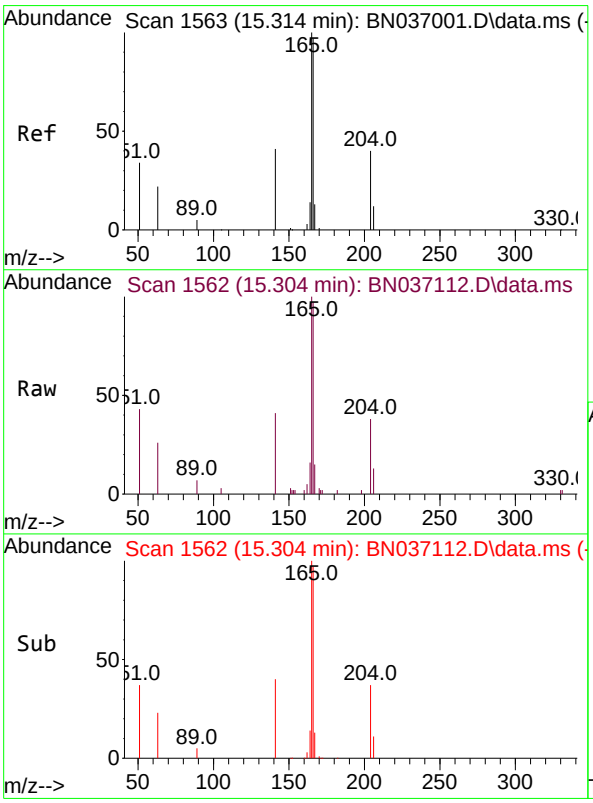
#17
Acenaphthene
Concen: 0.378 ng
RT: 14.320 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 2978

Ion	Ratio	Lower	Upper
154	100		
153	119.3	94.2	141.4
152	63.7	49.4	74.0

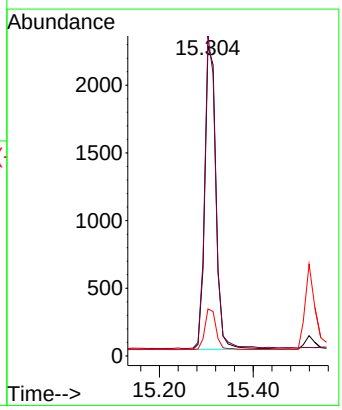


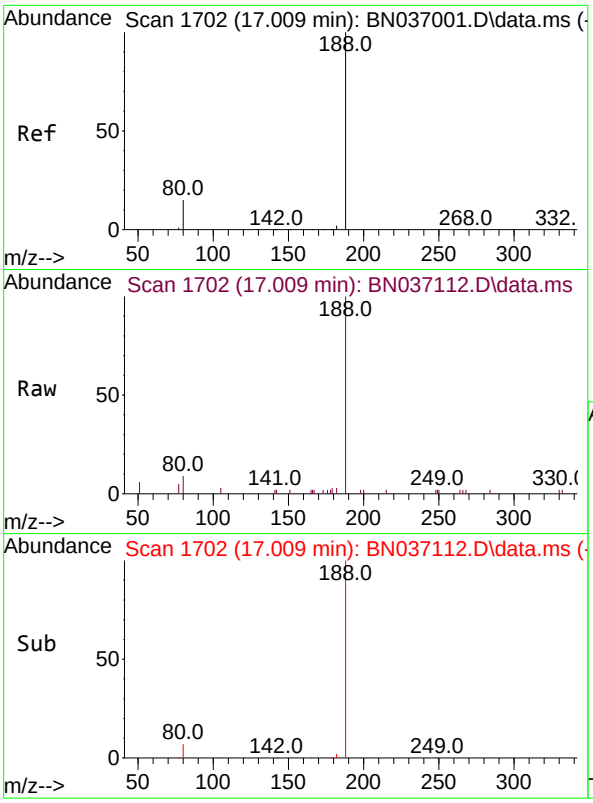


#18
Fluorene
Concen: 0.361 ng
RT: 15.304 min Scan# 1562
Delta R.T. -0.011 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:166 Resp: 3731

Ion	Ratio	Lower	Upper
166	100		
165	100.5	80.6	120.8
167	13.5	10.6	16.0



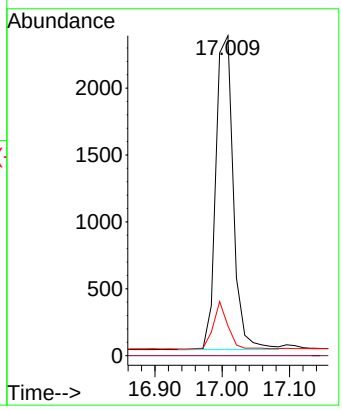


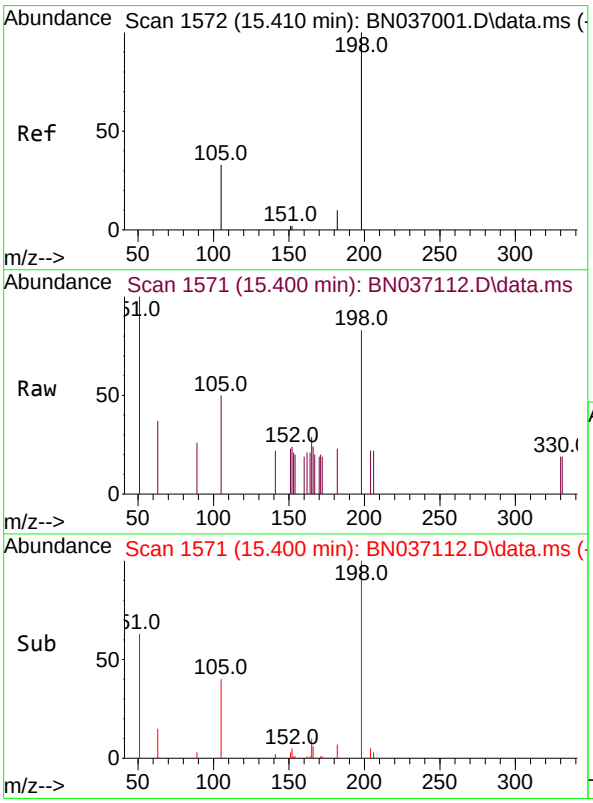
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 4231

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	13.4	20.0#

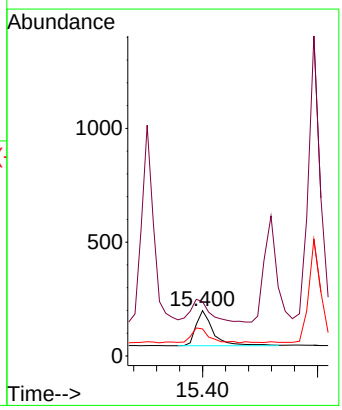


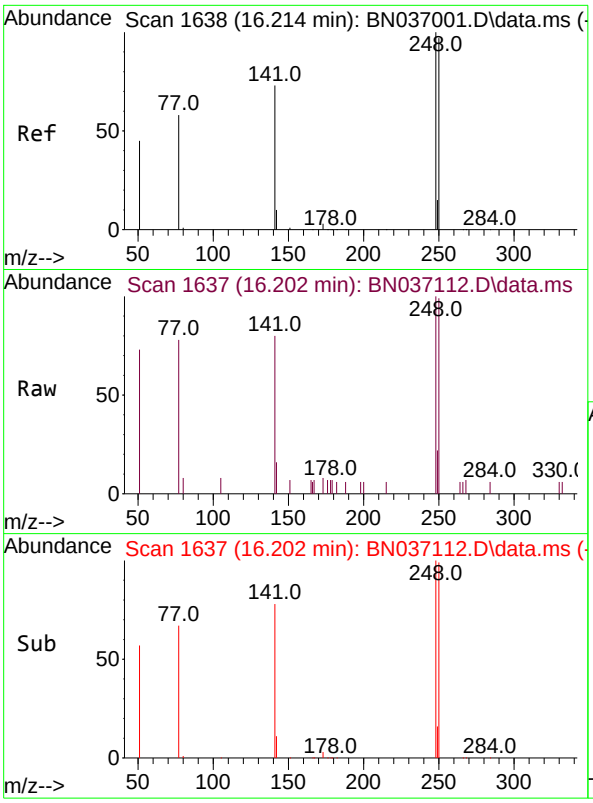


#20
4,6-Dinitro-2-methylphenol
Concen: 0.398 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:198 Resp: 325

Ion	Ratio	Lower	Upper
198	100		
51	120.1	87.8	131.6
105	59.8	44.2	66.4



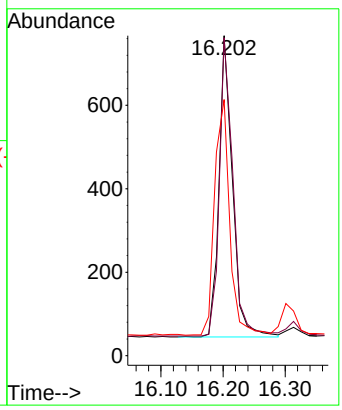


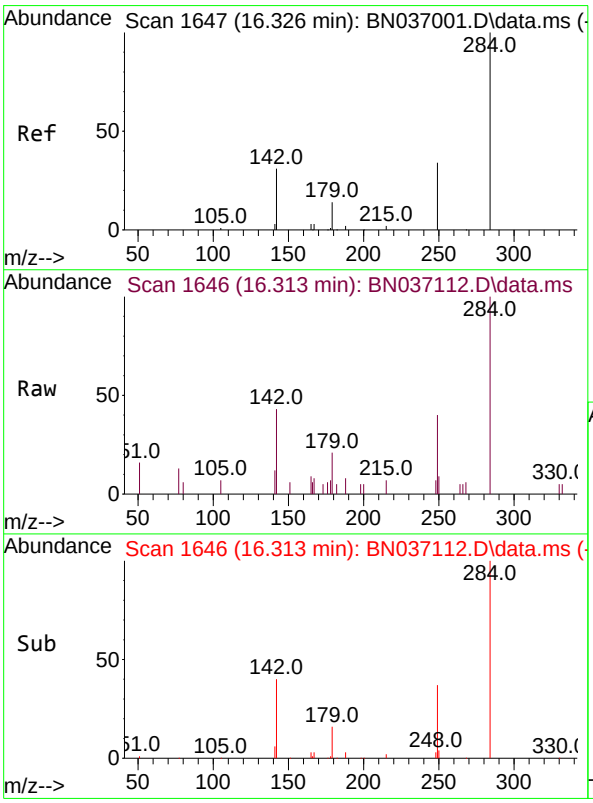
#21
4-Bromophenyl-phenylether
Concen: 0.406 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 1086

Ion	Ratio	Lower	Upper
248	100		
250	99.3	78.1	117.1
141	80.1	59.7	89.5

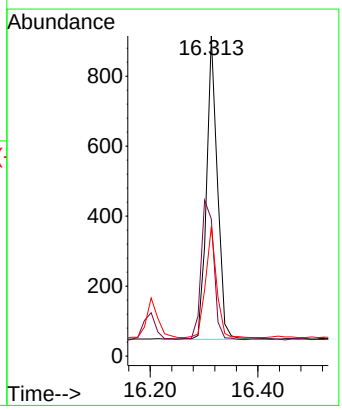


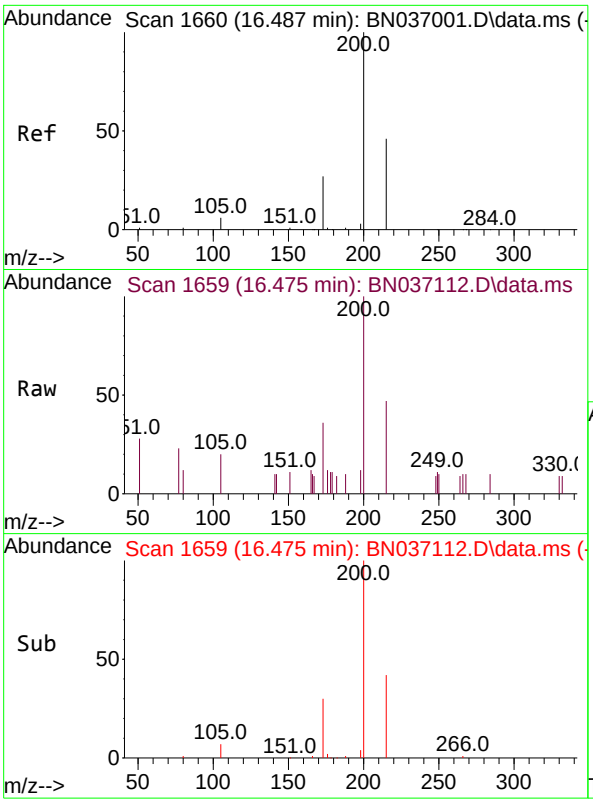


#22
Hexachlorobenzene
Concen: 0.425 ng
RT: 16.313 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:284 Resp: 1215

Ion	Ratio	Lower	Upper
284	100		
142	53.8	41.2	61.8
249	36.6	28.7	43.1



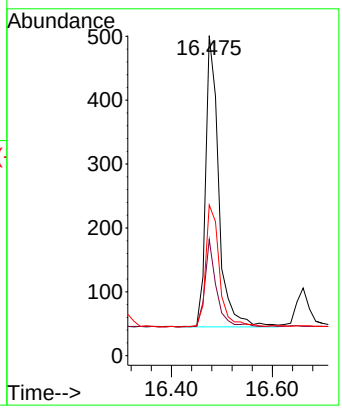


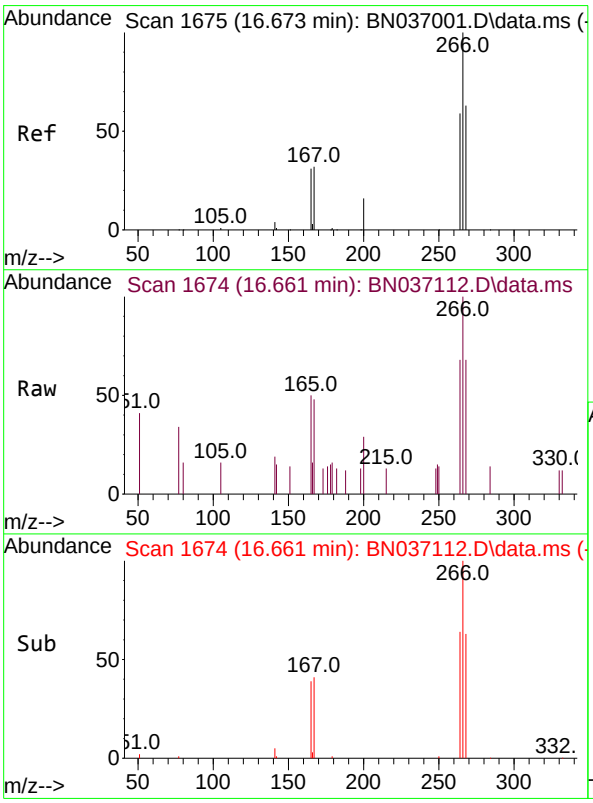
#23
Atrazine
Concen: 0.352 ng
RT: 16.475 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 821

Ion	Ratio	Lower	Upper
200	100		
173	36.3	25.2	37.8
215	47.1	39.3	58.9

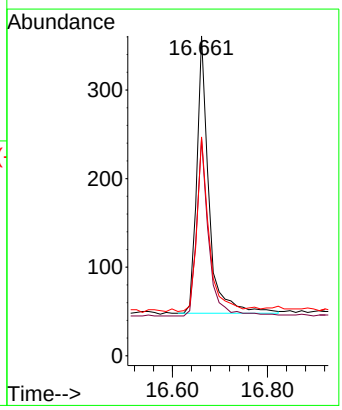


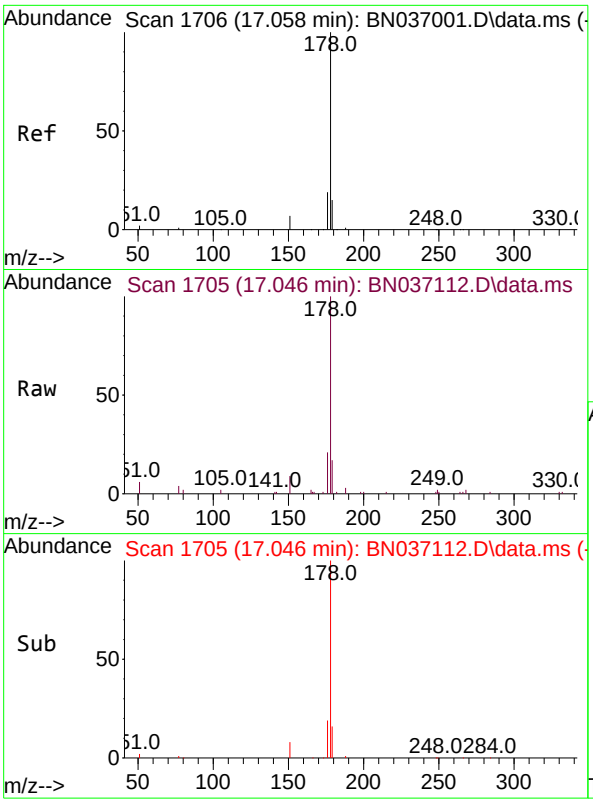


#24
Pentachlorophenol
Concen: 0.350 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:266 Resp: 552

Ion	Ratio	Lower	Upper
266	100		
264	63.8	47.9	71.9
268	63.6	50.0	75.0



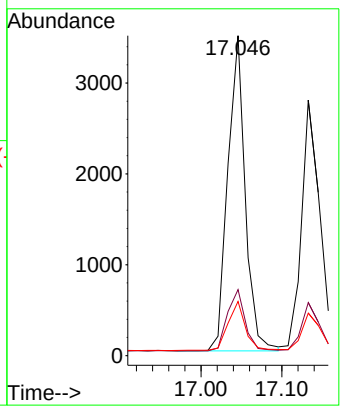


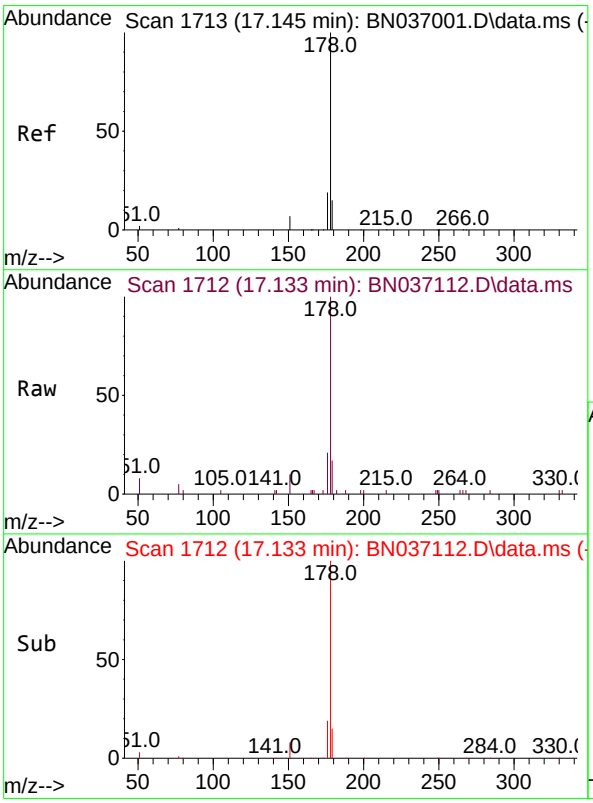
#25
Phenanthrene
Concen: 0.377 ng
RT: 17.046 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 5218

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.7	23.5
179	15.7	12.2	18.2

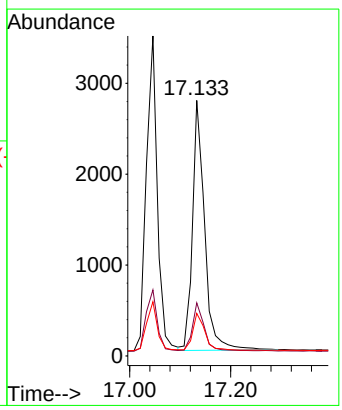


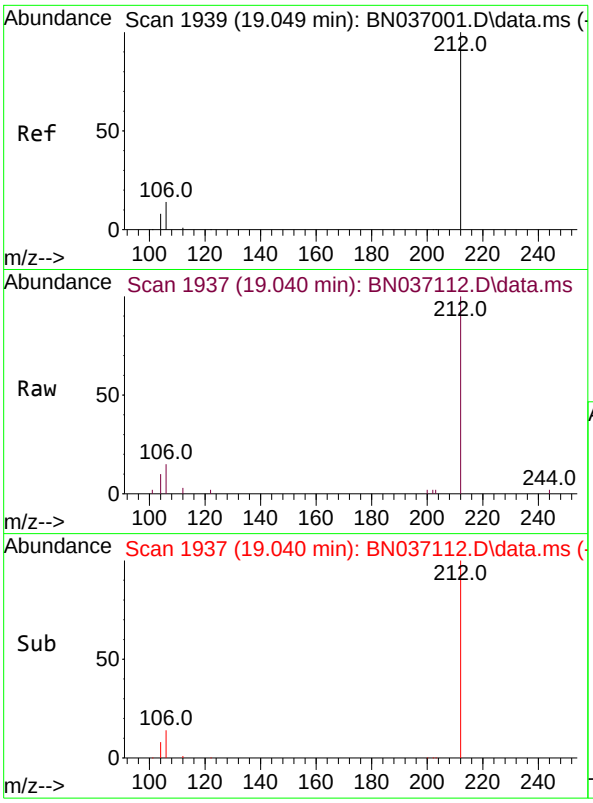


#26
Anthracene
Concen: 0.365 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:178 Resp: 4596

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.3	18.5



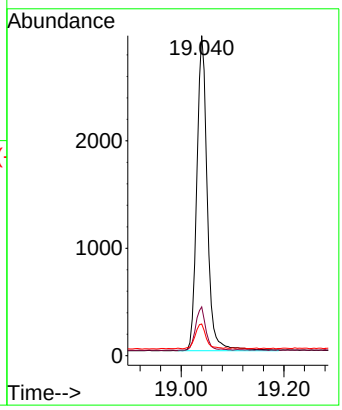


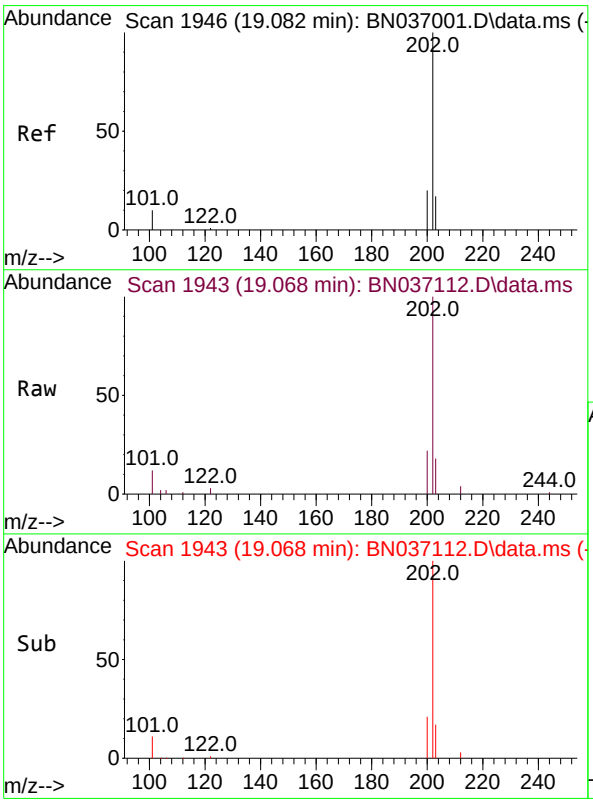
#27
Fluoranthene-d10
Concen: 0.360 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 4172

Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.3	16.9
104	8.1	6.7	10.1

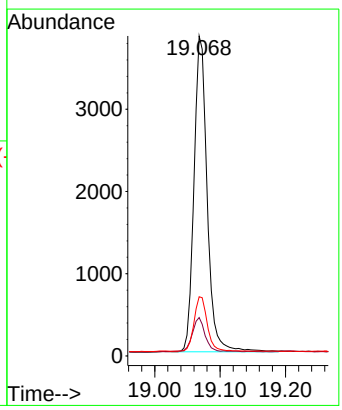


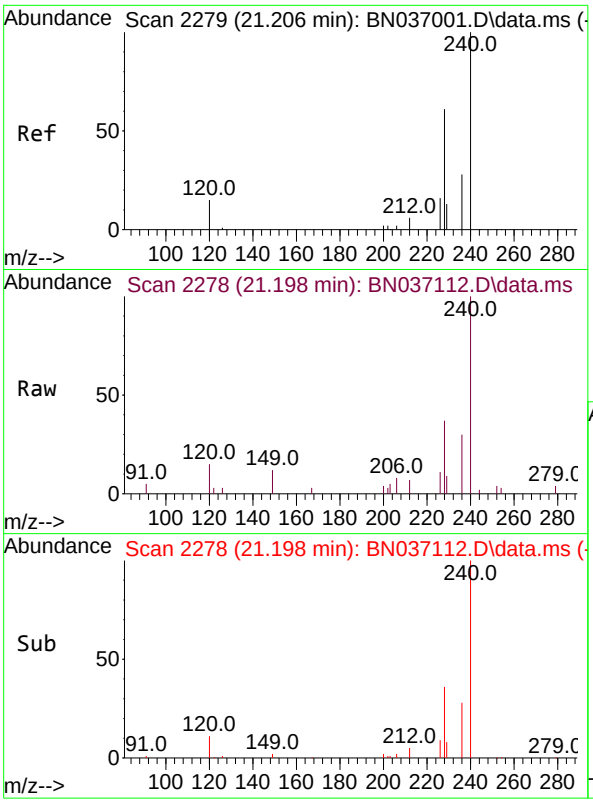


#28
Fluoranthene
Concen: 0.326 ng
RT: 19.068 min Scan# 1943
Delta R.T. -0.014 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:202 Resp: 5380

Ion	Ratio	Lower	Upper
202	100		
101	11.0	8.9	13.3
203	17.1	13.8	20.8



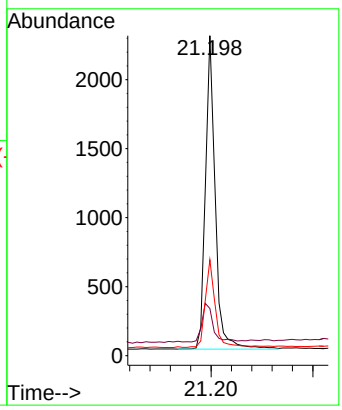


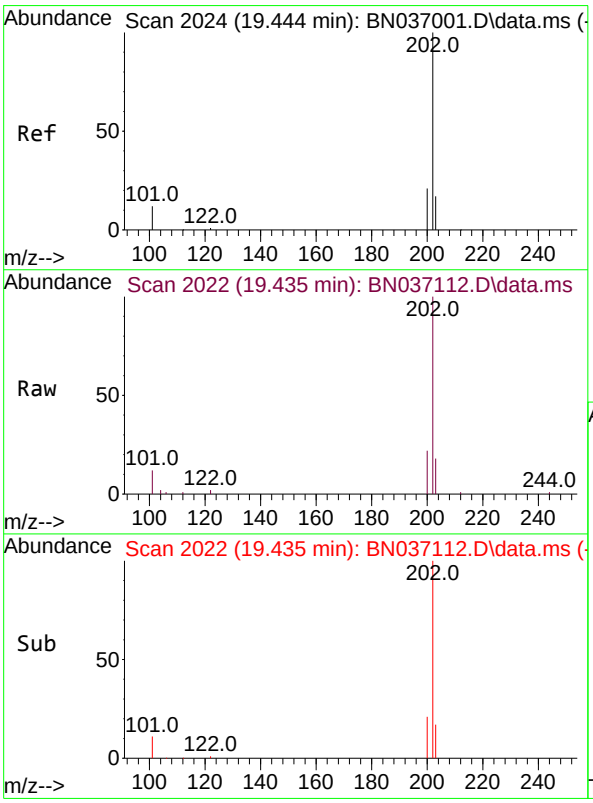
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 3037

Ion	Ratio	Lower	Upper
240	100		
120	14.7	15.1	22.7#
236	30.0	24.0	36.0

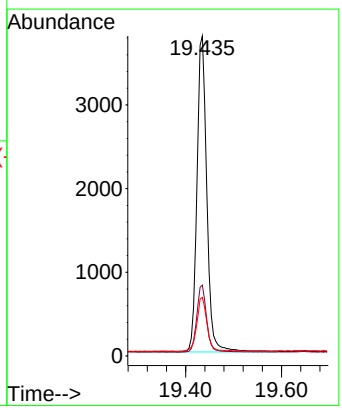


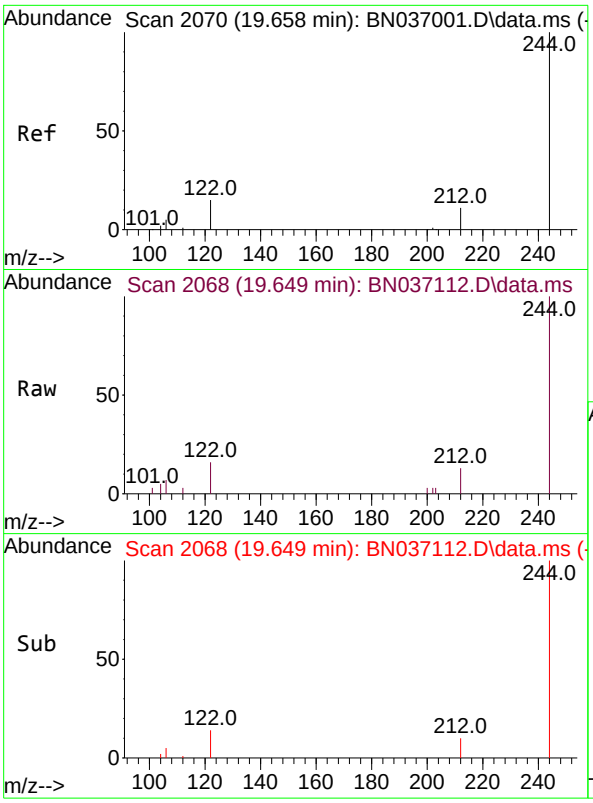


#30
Pyrene
Concen: 0.417 ng
RT: 19.435 min Scan# 2022
Delta R.T. -0.009 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:202 Resp: 5421

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.4	14.2	21.4



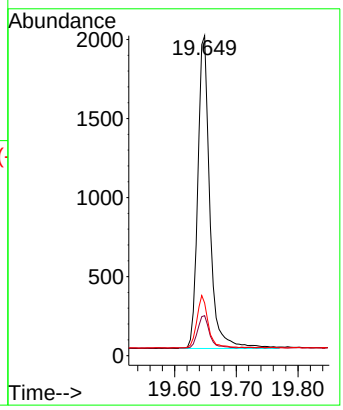


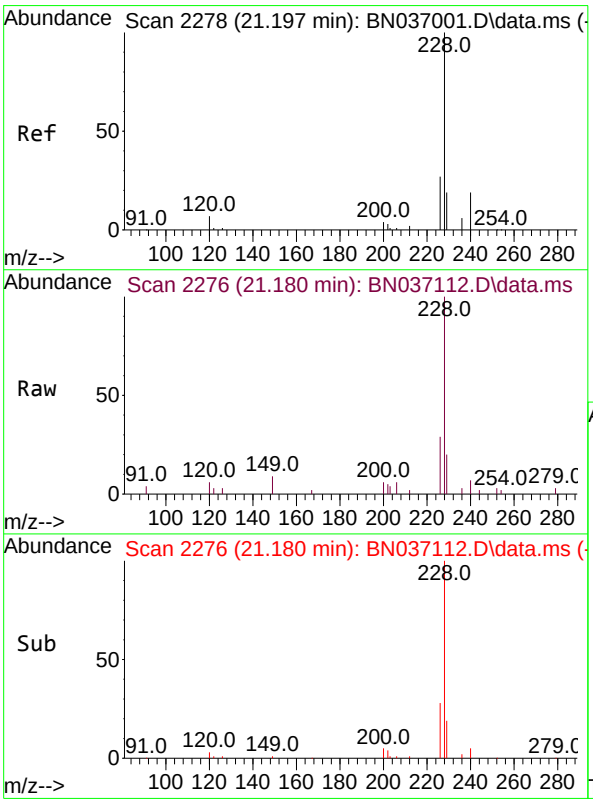
#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.649 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 2697

Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.7	14.5
122	16.5	13.4	20.0

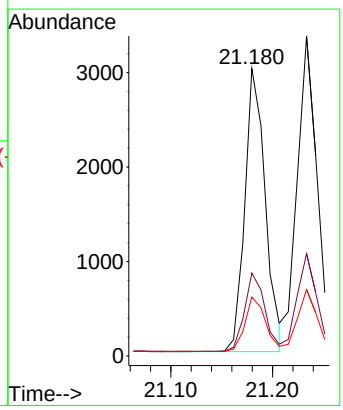


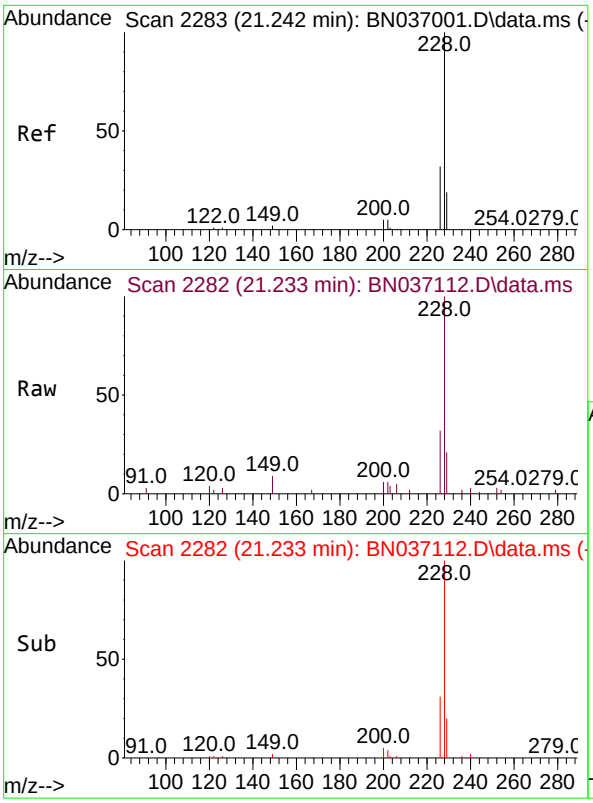


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.018 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:228 Resp: 4179

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.4
229	20.5	16.0	24.0



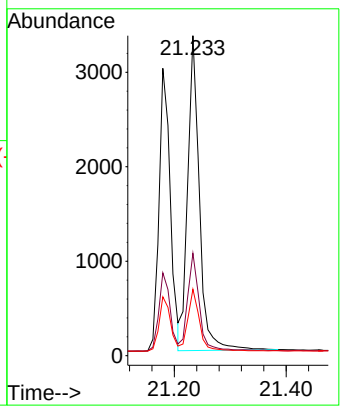


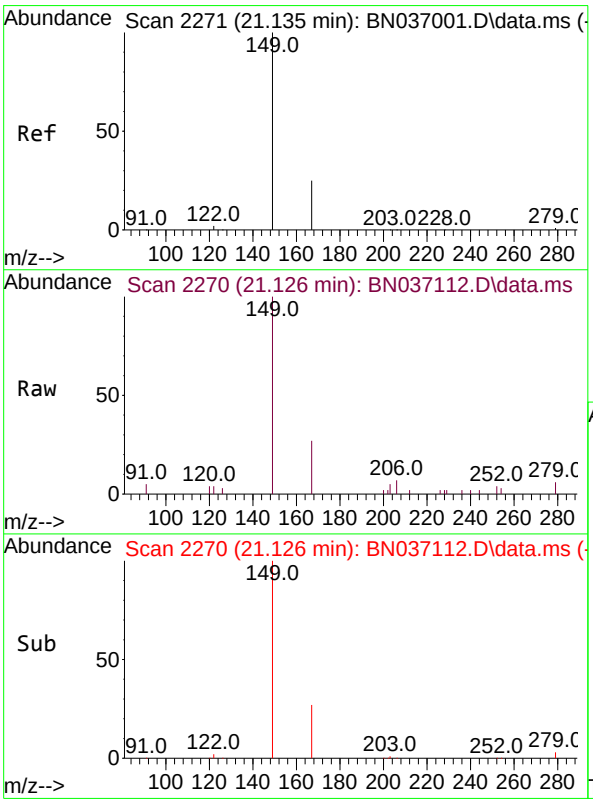
#33
Chrysene
Concen: 0.400 ng
RT: 21.233 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 4833

Ion	Ratio	Lower	Upper
228	100		
226	32.0	26.3	39.5
229	20.7	16.2	24.2

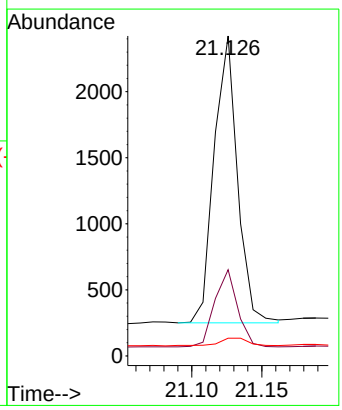


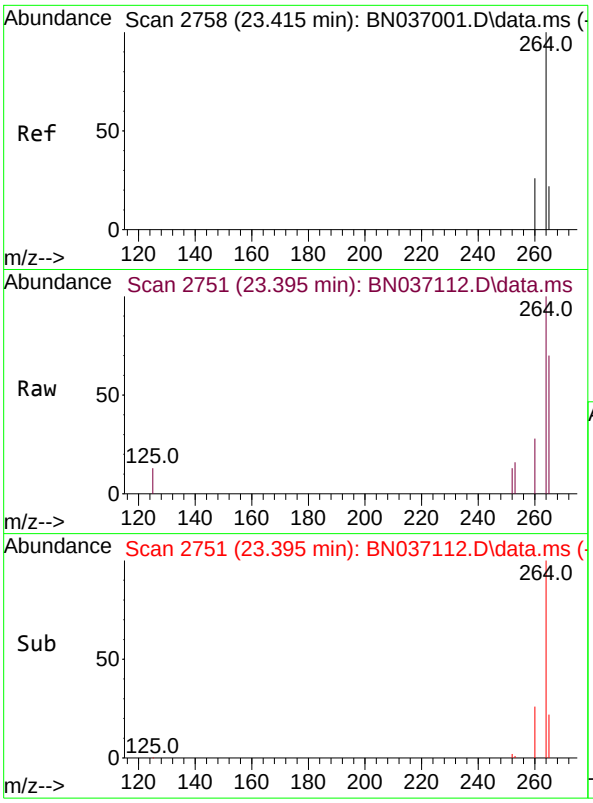


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.357 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:149 Resp: 2513

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.6	30.8
279	3.5	2.6	3.8



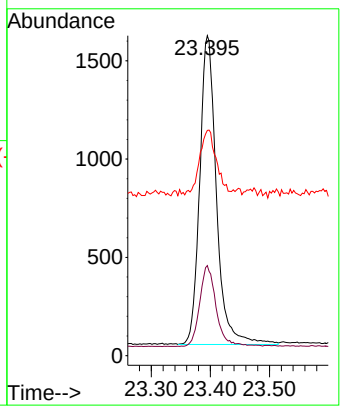


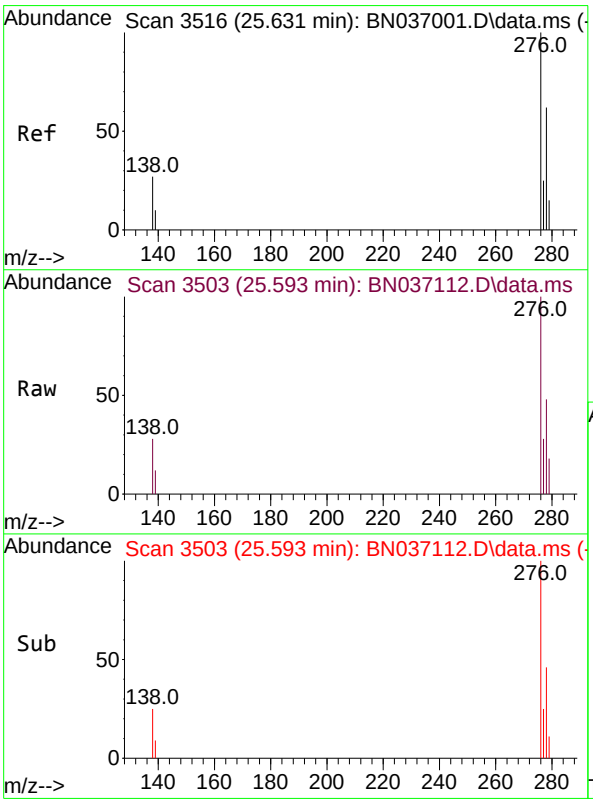
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.395 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 3091

Ion	Ratio	Lower	Upper
264	100		
260	28.1	21.9	32.9
265	70.4	51.6	77.4

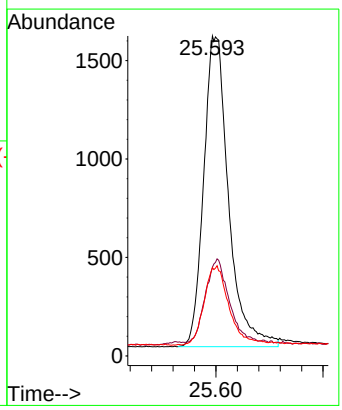


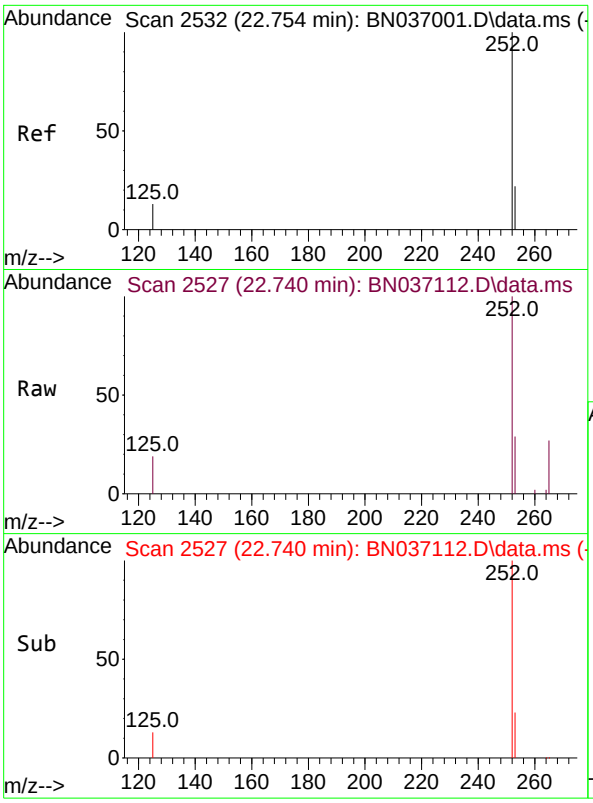


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.403 ng
RT: 25.593 min Scan# 3503
Delta R.T. -0.038 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:276 Resp: 5085

Ion	Ratio	Lower	Upper
276	100		
138	25.9	22.7	34.1
277	25.3	20.0	30.0



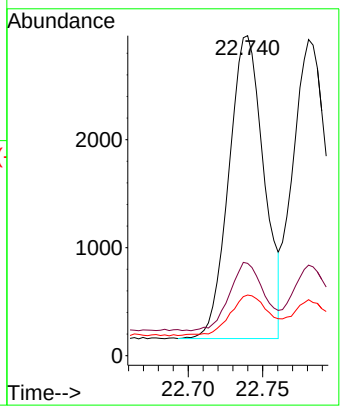


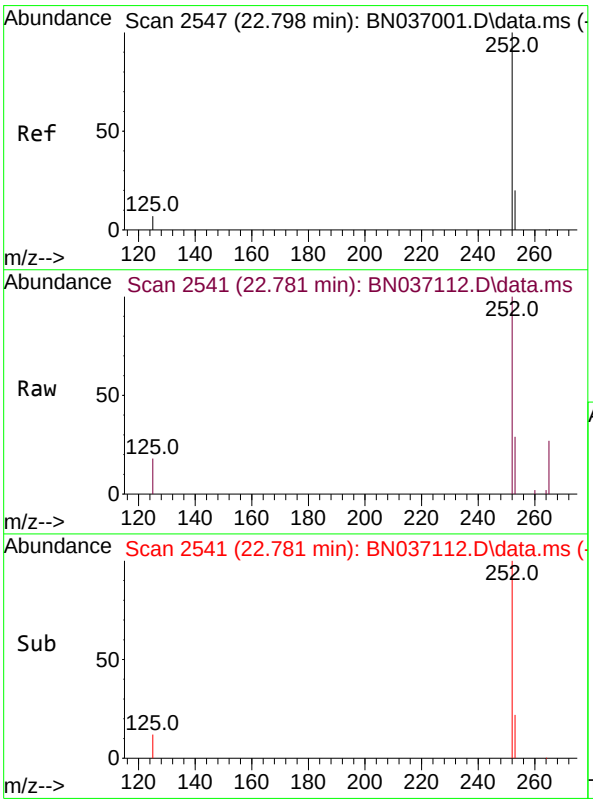
#37
Benzo(b)fluoranthene
Concen: 0.358 ng
RT: 22.740 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 4587

Ion	Ratio	Lower	Upper
252	100		
253	28.9	21.8	32.6
125	18.9	14.6	21.8

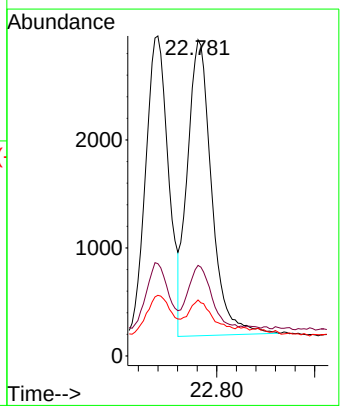


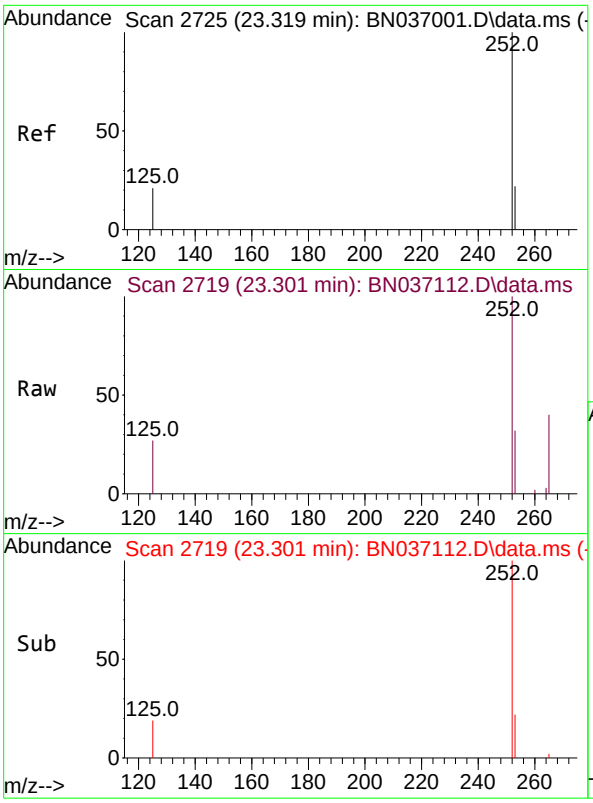


#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.781 min Scan# 2541
Delta R.T. -0.018 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:252 Resp: 4707

Ion	Ratio	Lower	Upper
252	100		
253	28.6	21.4	32.2
125	17.7	13.0	19.4



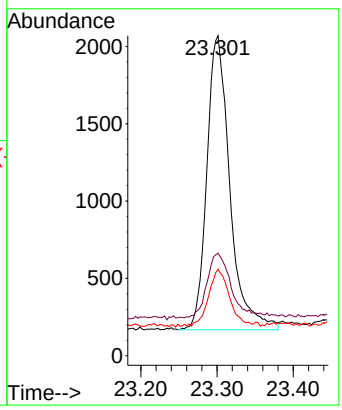


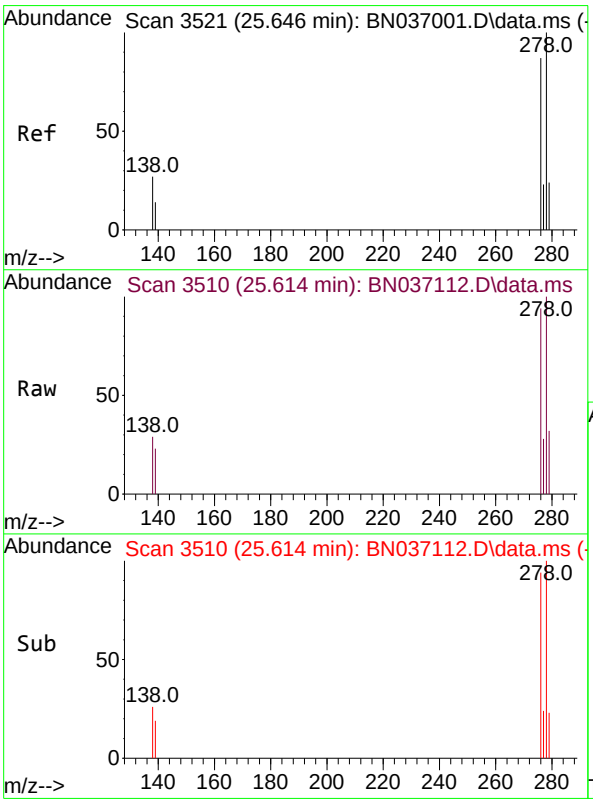
#39
Benzo(a)pyrene
Concen: 0.367 ng
RT: 23.301 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 3993

Ion	Ratio	Lower	Upper
252	100		
253	32.0	23.8	35.6
125	27.0	21.8	32.6

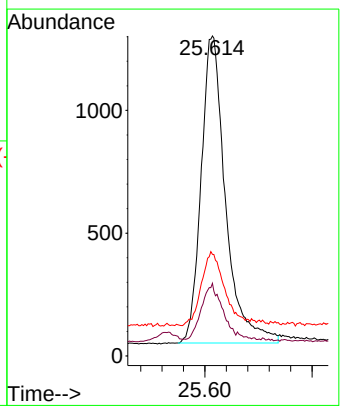


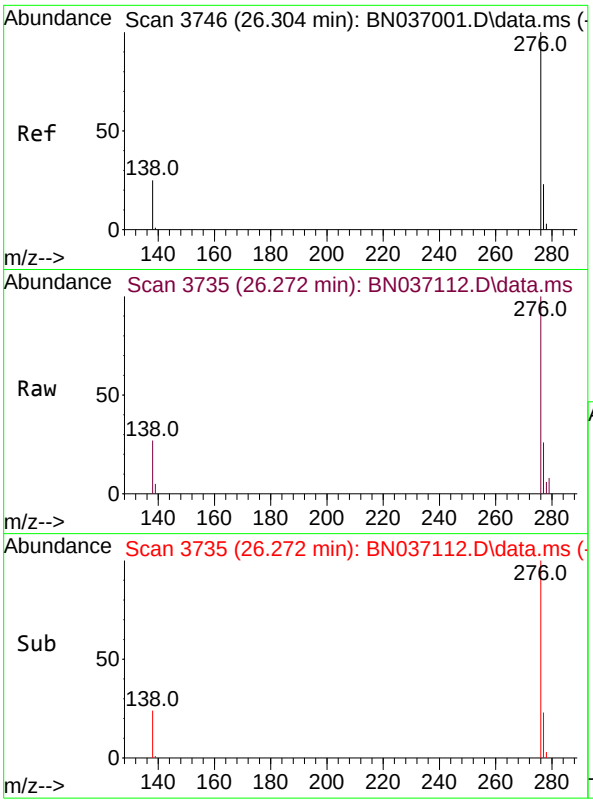


#40
Dibenzo(a,h)anthracene
Concen: 0.402 ng
RT: 25.614 min Scan# 3510
Delta R.T. -0.032 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Tgt Ion:278 Resp: 3956

Ion	Ratio	Lower	Upper
278	100		
139	22.7	17.4	26.0
279	31.8	24.6	37.0



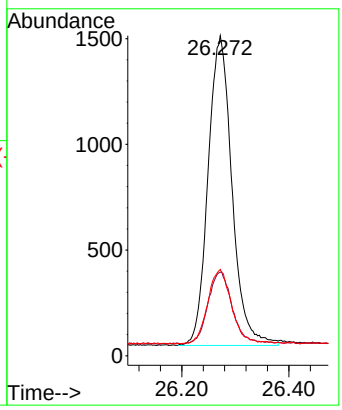


#41
Benzo(g,h,i)perylene
Concen: 0.425 ng
RT: 26.272 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037112.D
Acq: 28 May 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 4539

Ion	Ratio	Lower	Upper
276	100		
277	26.1	20.2	30.4
138	26.9	22.0	33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037112.D
Acq On : 28 May 2025 17:11
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 28 17:56:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	117	0.00
2		1,4-Dioxane	0.491	0.489	0.4	111	0.00
3		n-Nitrosodimethylamine	1.054	1.054	0.0	125	0.00
4	S	2-Fluorophenol	1.048	0.938	10.5	96	0.00
5	S	Phenol-d6	1.311	1.123	14.3	95	0.00
6		bis(2-Chloroethyl)ether	1.207	1.100	8.9	111	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	110	-0.02
8	S	Nitrobenzene-d5	0.436	0.426	2.3	118	-0.01
9		Naphthalene	1.182	1.133	4.1	109	-0.01
10		Hexachlorobutadiene	0.248	0.258	-4.0	116	-0.02
11	SURR	2-Methylnaphthalene-d10	0.563	0.552	2.0	110	-0.01
12		2-Methylnaphthalene	0.760	0.686	9.7	102	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	97	-0.01
14	S	2,4,6-Tribromophenol	0.176	0.145	17.6	79	-0.01
15	S	2-Fluorobiphenyl	1.832	1.889	-3.1	96	-0.01
16		Acenaphthylene	1.947	1.837	5.6	94	-0.02
17		Acenaphthene	1.272	1.201	5.6	94	-0.01
18		Fluorene	1.669	1.504	9.9	89	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00
20		4,6-Dinitro-2-methylphenol	0.090	0.077	14.4	89	-0.01
21		4-Bromophenyl-phenylether	0.253	0.257	-1.6	87	-0.01
22		Hexachlorobenzene	0.270	0.287	-6.3	86	-0.01
23		Atrazine	0.220	0.194	11.8	78	-0.01
24		Pentachlorophenol	0.149	0.130	12.8	78	-0.01
25		Phenanthrene	1.307	1.233	5.7	81	-0.01
26		Anthracene	1.190	1.086	8.7	79	-0.01
27	SURR	Fluoranthene-d10	1.097	0.986	10.1	77	0.00
28		Fluoranthene	1.562	1.272	18.6	72	-0.01
29	I	Chrysene-d12	1.000	1.000	0.0	68	0.00
30		Pyrene	1.711	1.785	-4.3	70	0.00
31	S	Terphenyl-d14	0.856	0.888	-3.7	69	0.00
32		Benzo(a)anthracene	1.506	1.376	8.6	63	-0.02
33		Chrysene	1.593	1.591	0.1	67	0.00
34		Bis(2-ethylhexyl)phthalate	0.927	0.827	10.8	62	0.00
35	I	Perylene-d12	1.000	1.000	0.0	68	-0.02
36		Indeno(1,2,3-cd)pyrene	1.634	1.645	-0.7	68	-0.04
37		Benzo(b)fluoranthene	1.659	1.484	10.5	63	-0.01
38		Benzo(k)fluoranthene	1.639	1.523	7.1	63	-0.02
39	C	Benzo(a)pyrene	1.407	1.292	8.2	64	-0.02
40		Dibenzo(a,h)anthracene	1.272	1.280	-0.6	69	-0.03
41		Benzo(g,h,i)perylene	1.383	1.468	-6.1	71	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037112.D
Acq On : 28 May 2025 17:11
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 28 17:56:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	117	0.00
2		1,4-Dioxane	0.400	0.399	0.3	111	0.00
3		n-Nitrosodimethylamine	0.400	0.400	0.0	125	0.00
4	S	2-Fluorophenol	0.400	0.358	10.5	96	0.00
5	S	Phenol-d6	0.400	0.342	14.5	95	0.00
6		bis(2-Chloroethyl)ether	0.400	0.365	8.8	111	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	110	-0.02
8	S	Nitrobenzene-d5	0.400	0.391	2.3	118	-0.01
9		Naphthalene	0.400	0.383	4.3	109	-0.01
10		Hexachlorobutadiene	0.400	0.416	-4.0	116	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.392	2.0	110	-0.01
12		2-Methylnaphthalene	0.400	0.361	9.8	102	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	97	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.330	17.5	79	-0.01
15	S	2-Fluorobiphenyl	0.400	0.412	-3.0	96	-0.01
16		Acenaphthylene	0.400	0.377	5.8	94	-0.02
17		Acenaphthene	0.400	0.378	5.5	94	-0.01
18		Fluorene	0.400	0.361	9.8	89	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	85	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.398	0.5	89	-0.01
21		4-Bromophenyl-phenylether	0.400	0.406	-1.5	87	-0.01
22		Hexachlorobenzene	0.400	0.425	-6.2	86	-0.01
23		Atrazine	0.400	0.352	12.0	78	-0.01
24		Pentachlorophenol	0.400	0.350	12.5	78	-0.01
25		Phenanthrene	0.400	0.377	5.8	81	-0.01
26		Anthracene	0.400	0.365	8.8	79	-0.01
27	SURR	Fluoranthene-d10	0.400	0.360	10.0	77	0.00
28		Fluoranthene	0.400	0.326	18.5	72	-0.01
29	I	Chrysene-d12	0.400	0.400	0.0	68	0.00
30		Pyrene	0.400	0.417	-4.2	70	0.00
31	S	Terphenyl-d14	0.400	0.415	-3.7	69	0.00
32		Benzo(a)anthracene	0.400	0.365	8.8	63	-0.02
33		Chrysene	0.400	0.400	0.0	67	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.357	10.8	62	0.00
35	I	Perylene-d12	0.400	0.400	0.0	68	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.403	-0.8	68	-0.04
37		Benzo(b)fluoranthene	0.400	0.358	10.5	63	-0.01
38		Benzo(k)fluoranthene	0.400	0.372	7.0	63	-0.02
39	C	Benzo(a)pyrene	0.400	0.367	8.3	64	-0.02
40		Dibenzo(a,h)anthracene	0.400	0.402	-0.5	69	-0.03
41		Benzo(g,h,i)perylene	0.400	0.425	-6.2	71	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: BNA_N Calibration Date/Time: 05/29/2025 01:35

Lab File ID: BN037126.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.577		2.5	50.0
Fluoranthene-d10	1.097	1.019		-7.1	50.0
2-Fluorophenol	1.048	0.946		-9.7	50.0
Phenol-d6	1.311	1.170		-10.8	50.0
Nitrobenzene-d5	0.436	0.407		-6.7	50.0
2-Fluorobiphenyl	1.832	1.641		-10.4	50.0
2,4,6-Tribromophenol	0.176	0.153		-13.1	50.0
Terphenyl-d14	0.856	1.004		17.3	50.0
1,4-Dioxane	0.491	0.459		-6.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037126.D
Acq On : 29 May 2025 01:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: May 29 03:44:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

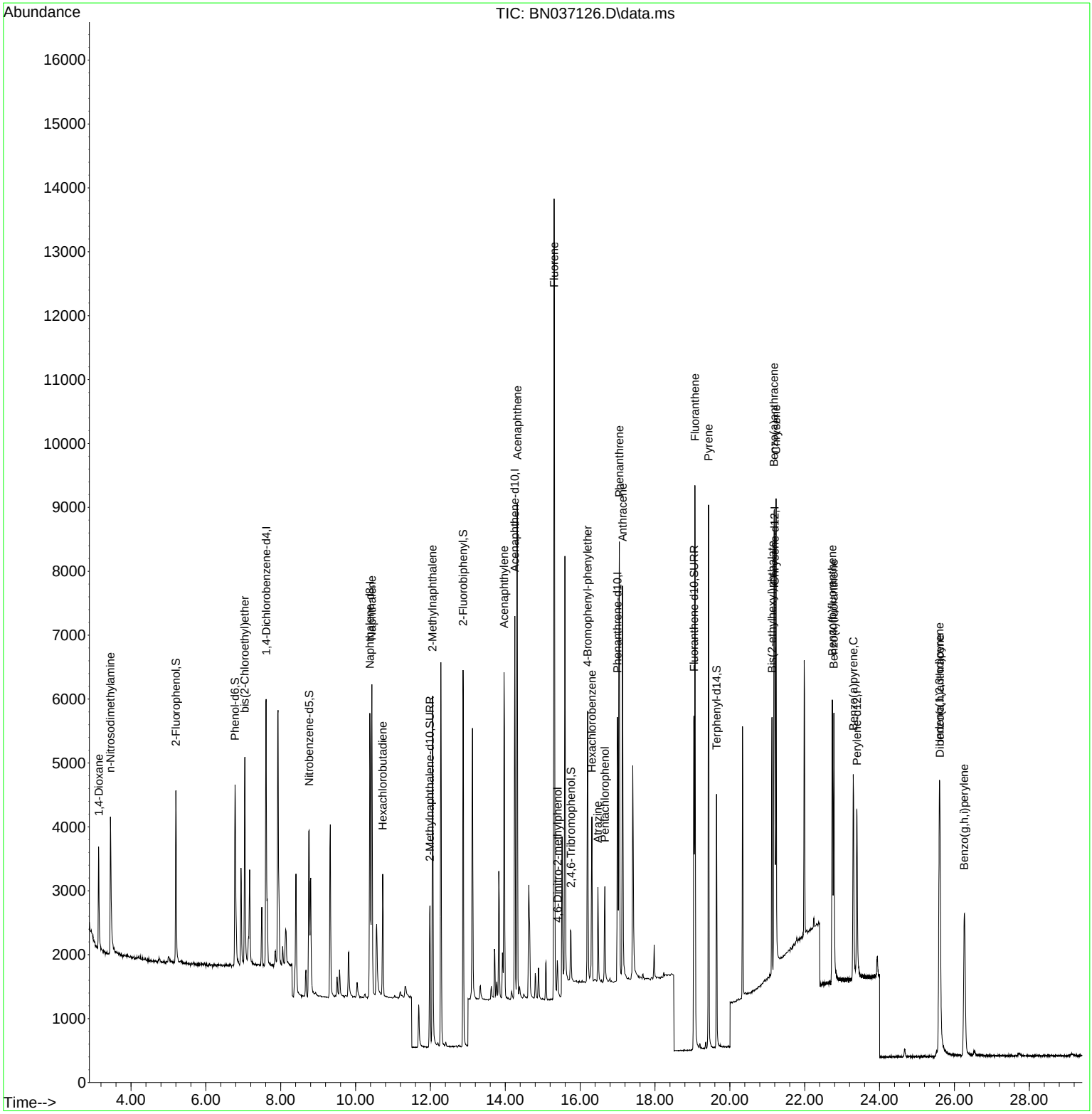
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2032	0.400	ng	0.00
7) Naphthalene-d8	10.383	136	5568	0.400	ng	#-0.02
13) Acenaphthene-d10	14.256	164	3201	0.400	ng	-0.01
19) Phenanthrene-d10	16.996	188	5866	0.400	ng	-0.01
29) Chrysene-d12	21.198	240	3944	0.400	ng	# 0.00
35) Perylene-d12	23.395	264	3424	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	1923	0.361	ng	-0.01
5) Phenol-d6	6.781	99	2378	0.357	ng	-0.01
8) Nitrobenzene-d5	8.760	82	2265	0.374	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	3215	0.410	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	491	0.349	ng	-0.01
15) 2-Fluorobiphenyl	12.873	172	5253	0.358	ng	-0.02
27) Fluoranthene-d10	19.040	212	5978	0.372	ng	0.00
31) Terphenyl-d14	19.644	244	3958	0.469	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.141	88	933	0.374	ng	# 94
3) n-Nitrosodimethylamine	3.451	42	2159	0.403	ng	# 88
6) bis(2-Chloroethyl)ether	7.041	93	2314	0.377	ng	97
9) Naphthalene	10.436	128	6206	0.377	ng	99
10) Hexachlorobutadiene	10.725	225	1409	0.408	ng	# 100
12) 2-Methylnaphthalene	12.057	142	3960	0.374	ng	98
16) Acenaphthylene	13.967	152	5690	0.365	ng	99
17) Acenaphthene	14.320	154	3760	0.369	ng	100
18) Fluorene	15.304	166	4908	0.367	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	466	0.410	ng	# 83
21) 4-Bromophenyl-phenylether	16.202	248	1474	0.398	ng	99
22) Hexachlorobenzene	16.314	284	1676	0.423	ng	97
23) Atrazine	16.475	200	1212	0.375	ng	97
24) Pentachlorophenol	16.661	266	748	0.342	ng	95
25) Phenanthrene	17.046	178	7265	0.379	ng	99
26) Anthracene	17.133	178	6349	0.364	ng	100
28) Fluoranthene	19.068	202	7765	0.339	ng	98
30) Pyrene	19.430	202	7766	0.460	ng	100
32) Benzo(a)anthracene	21.180	228	5419	0.365	ng	98
33) Chrysene	21.233	228	6182	0.394	ng	99
34) Bis(2-ethylhexyl)phtha...	21.126	149	3666	0.401	ng	99
36) Indeno(1,2,3-cd)pyrene	25.599	276	5322	0.381	ng	97
37) Benzo(b)fluoranthene	22.737	252	5275	0.371	ng	98
38) Benzo(k)fluoranthene	22.778	252	5528	0.394	ng	98
39) Benzo(a)pyrene	23.298	252	4455	0.370	ng	96
40) Dibenzo(a,h)anthracene	25.611	278	4085	0.375	ng	99
41) Benzo(g,h,i)perylene	26.263	276	4756	0.402	ng	99

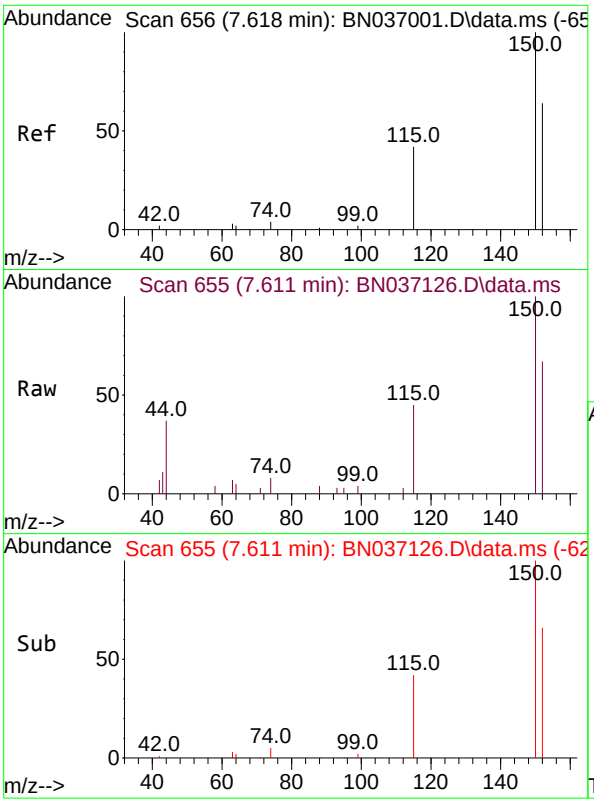
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037126.D
Acq On : 29 May 2025 01:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: May 29 03:44:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



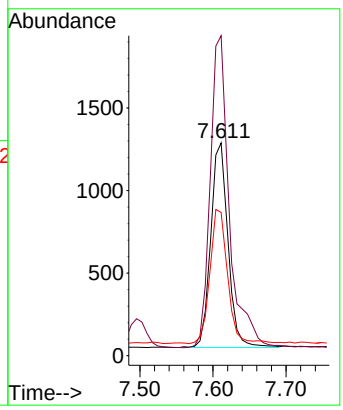


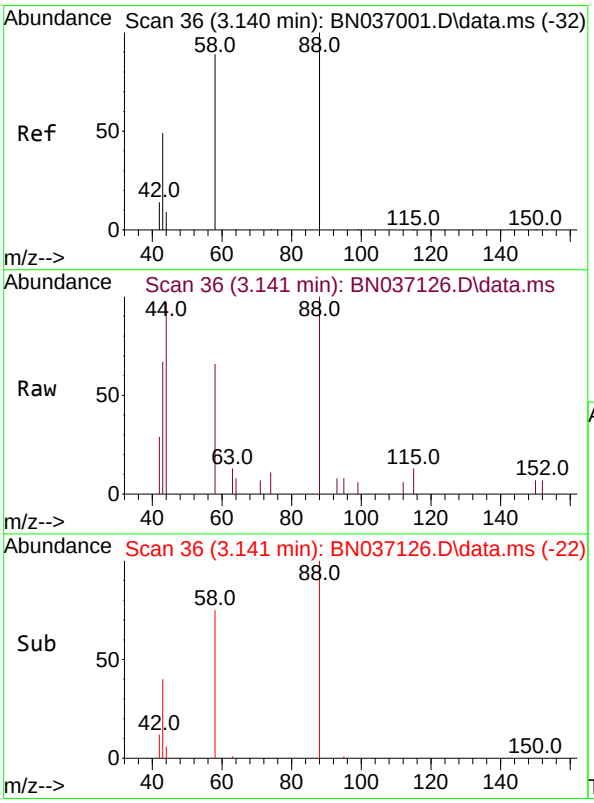
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2032

Ion	Ratio	Lower	Upper
152	100		
150	150.3	123.9	185.9
115	67.3	55.8	83.8

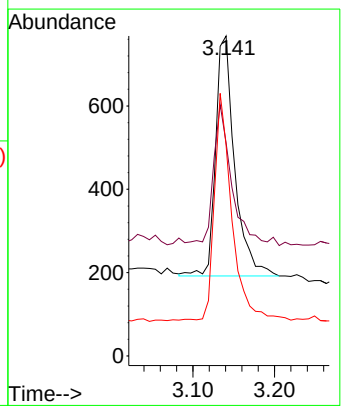


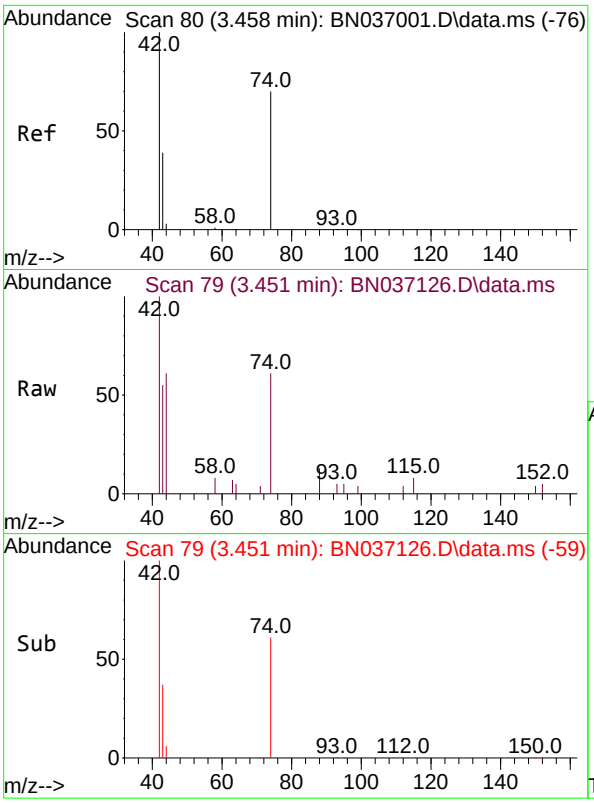


#2
1,4-Dioxane
Concen: 0.374 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion: 88 Resp: 933

Ion	Ratio	Lower	Upper
88	100		
43	56.7	37.4	56.0#
58	86.5	68.8	103.2



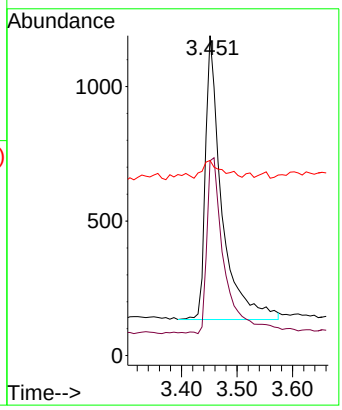


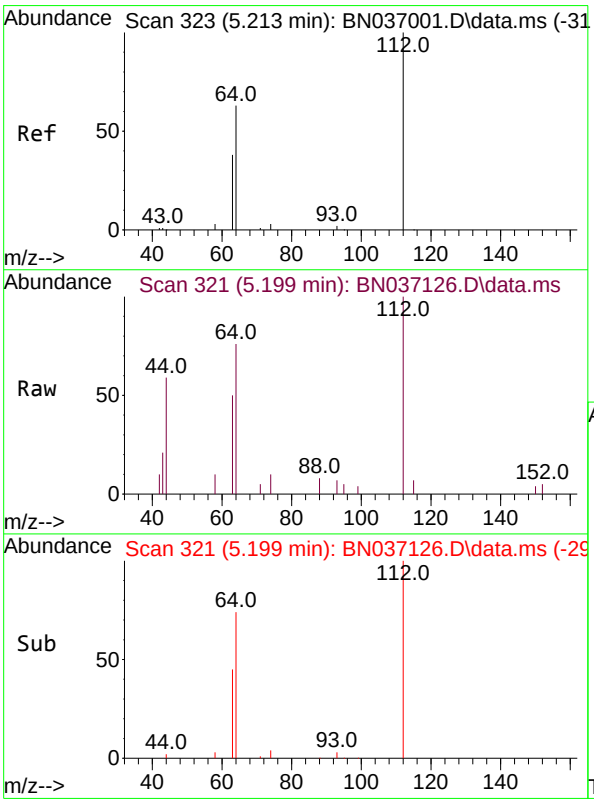
#3
n-Nitrosodimethylamine
Concen: 0.403 ng
RT: 3.451 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 2159

Ion	Ratio	Lower	Upper
42	100		
74	65.6	59.8	89.6
44	7.2	11.9	17.9#

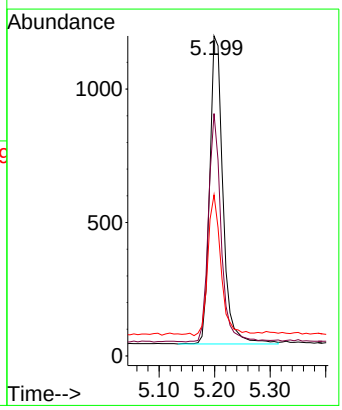


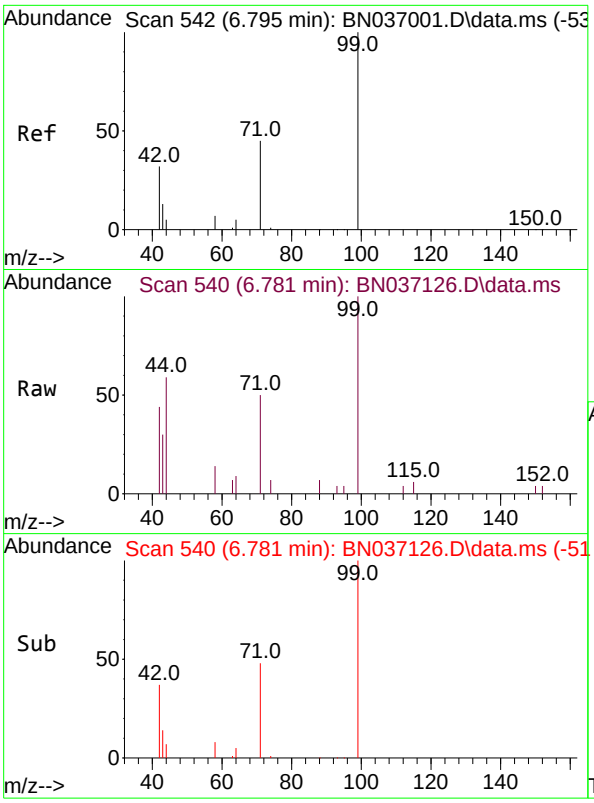


#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.199 min Scan# 321
Delta R.T. -0.014 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:112 Resp: 1923

Ion	Ratio	Lower	Upper
112	100		
64	70.7	55.7	83.5
63	45.4	34.6	51.8



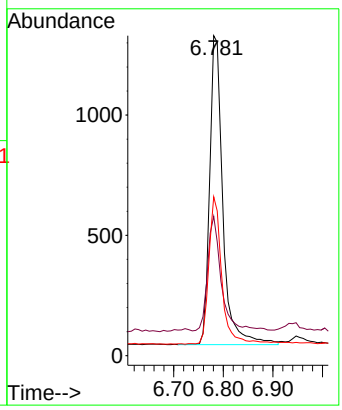


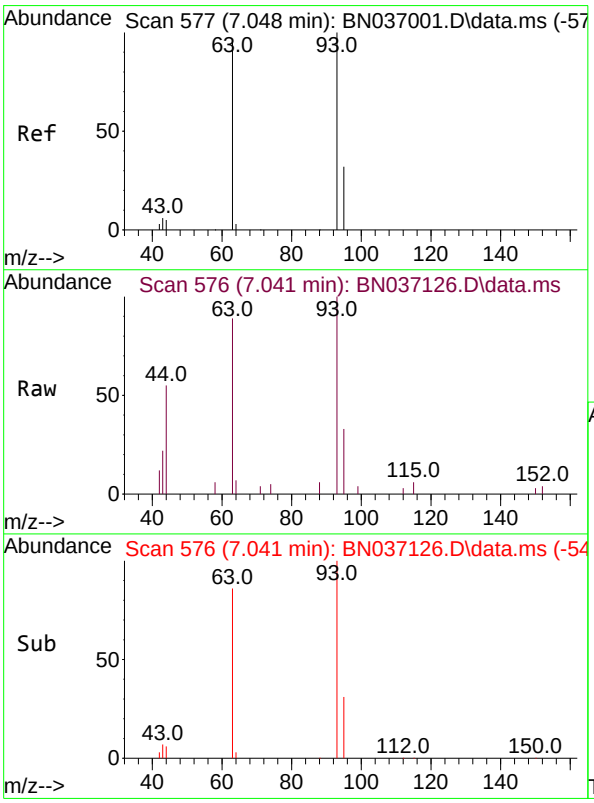
#5
Phenol-d6
Concen: 0.357 ng
RT: 6.781 min Scan# 54
Delta R.T. -0.014 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 2378

Ion	Ratio	Lower	Upper
99	100		
42	38.4	29.3	43.9
71	48.1	35.7	53.5

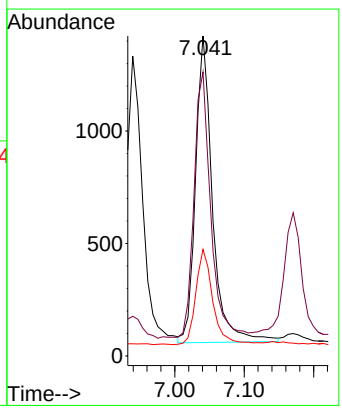


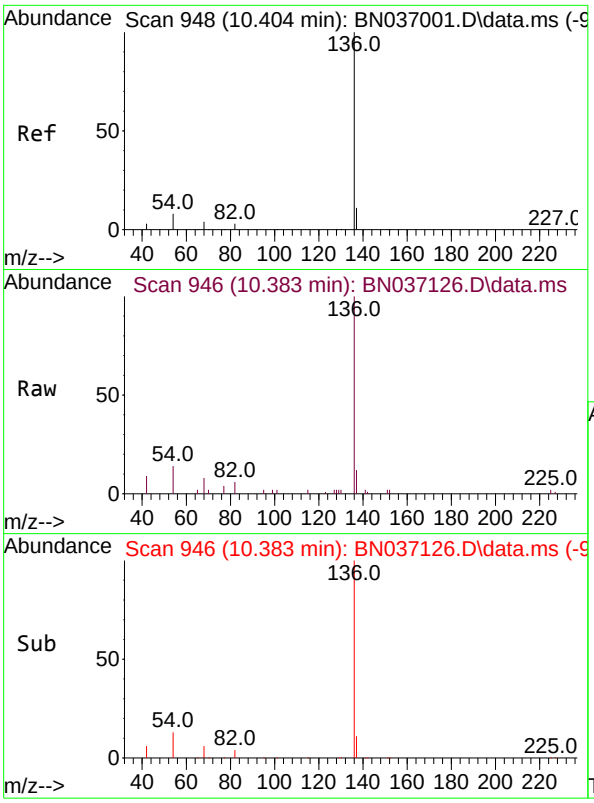


#6
bis(2-Chloroethyl)ether
Concen: 0.377 ng
RT: 7.041 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion: 93 Resp: 2314

Ion	Ratio	Lower	Upper
93	100		
63	85.0	70.1	105.1
95	31.4	26.2	39.2



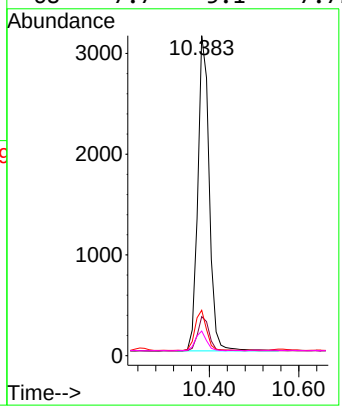


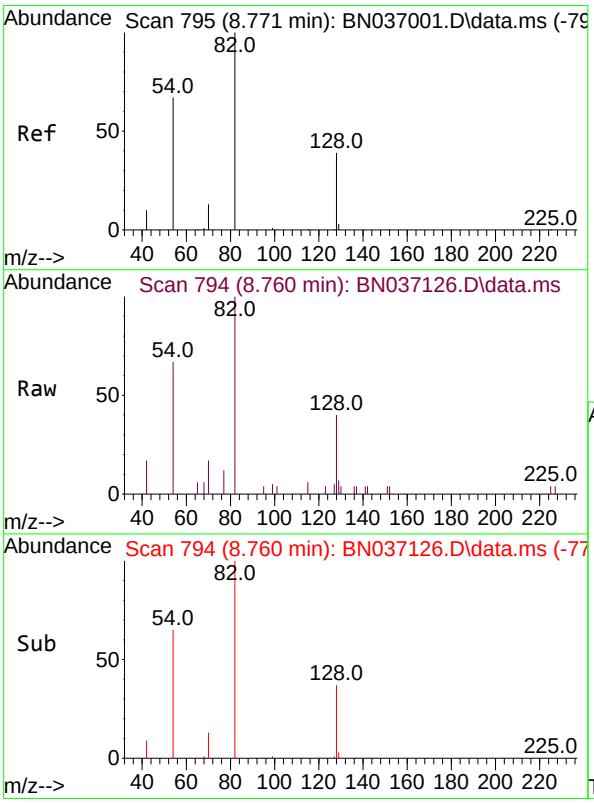
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 5568

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.4	15.6
54	14.2	8.5	12.7#
68	7.7	5.1	7.7#

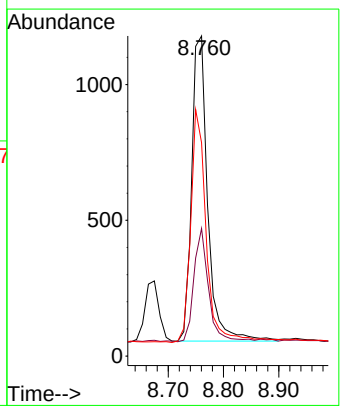


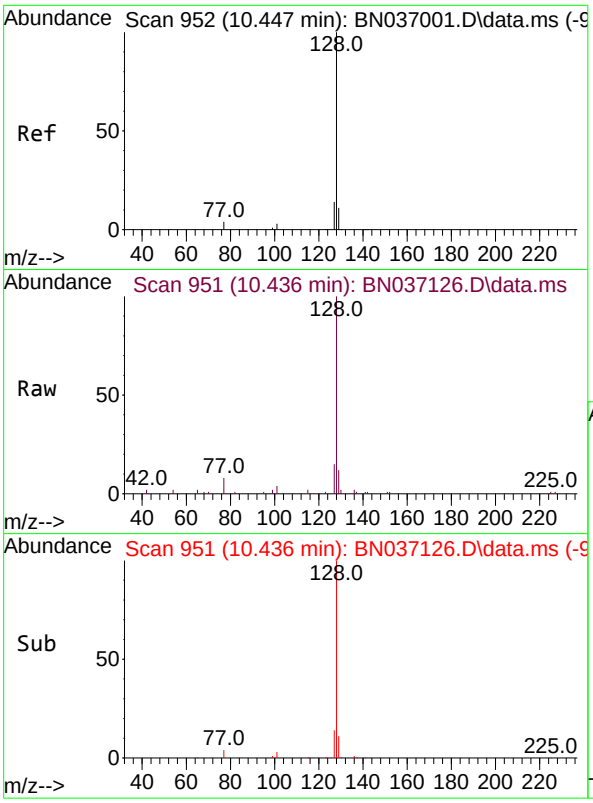


#8
Nitrobenzene-d5
Concen: 0.374 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion: 82 Resp: 2265

Ion	Ratio	Lower	Upper
82	100		
128	39.9	34.0	51.0
54	66.7	55.0	82.4



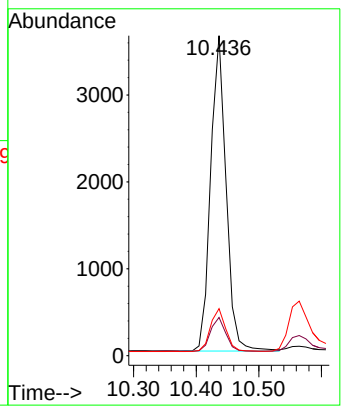


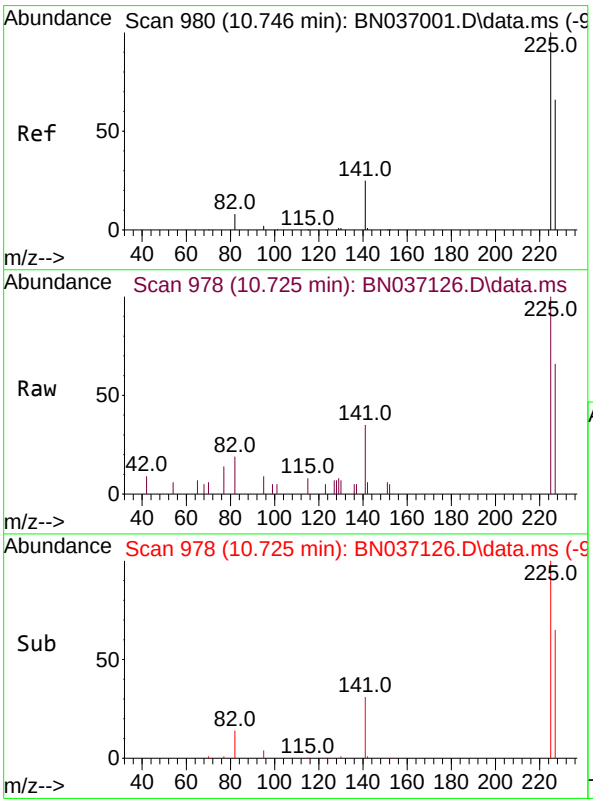
#9
Naphthalene
Concen: 0.377 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 6206

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.7	14.5
127	14.7	12.4	18.6

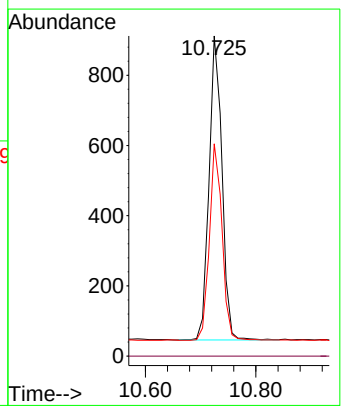


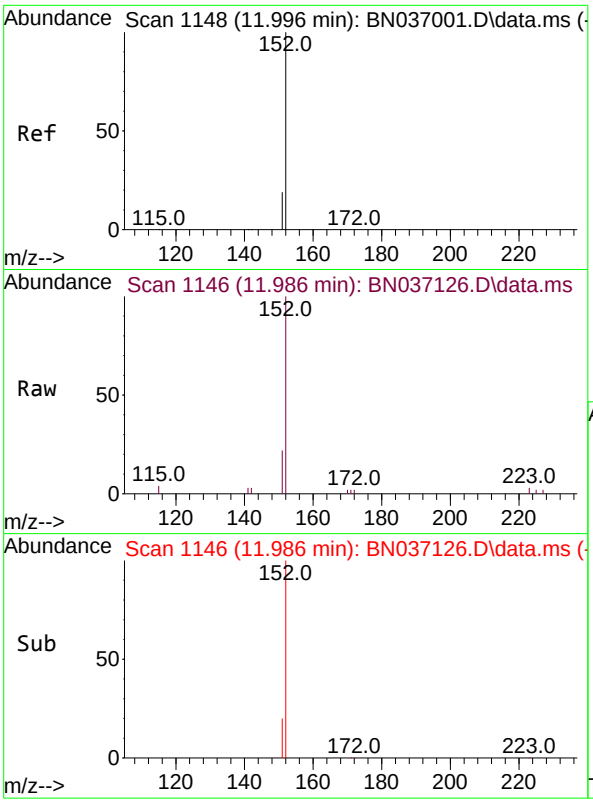


#10
Hexachlorobutadiene
Concen: 0.408 ng
RT: 10.725 min Scan# 978
Delta R.T. -0.021 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:225 Resp: 1409

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.9	76.3



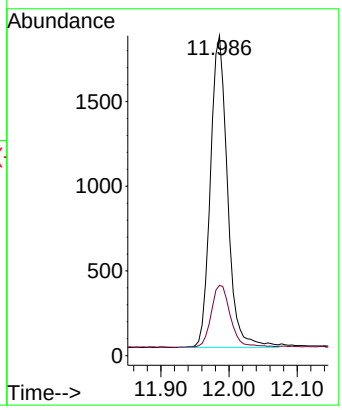


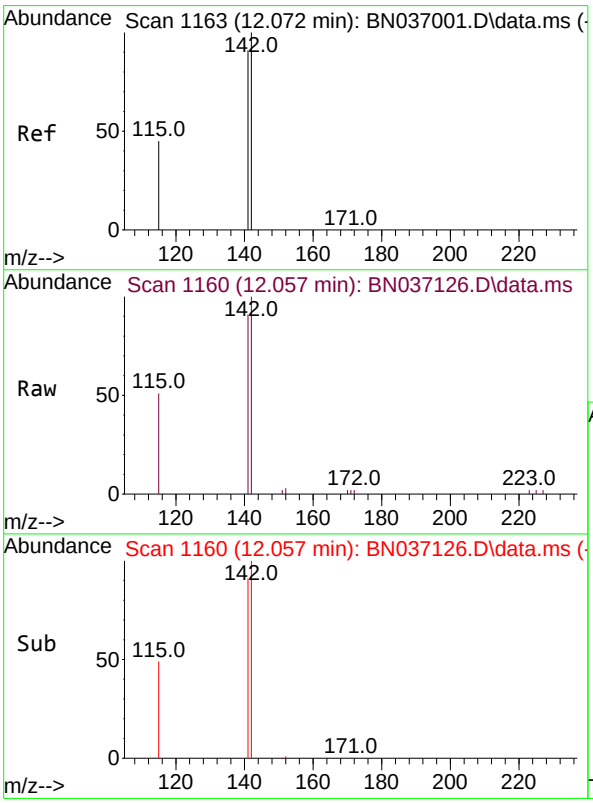
#11
2-Methylnaphthalene-d10
Concen: 0.410 ng
RT: 11.986 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3215

Ion	Ratio	Lower	Upper
152	100		
151	22.5	17.5	26.3

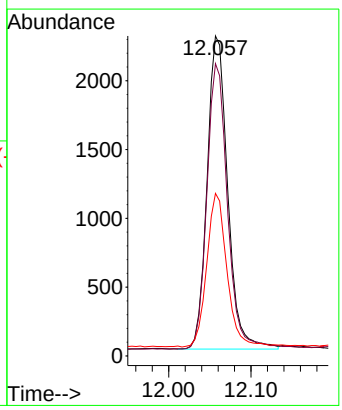


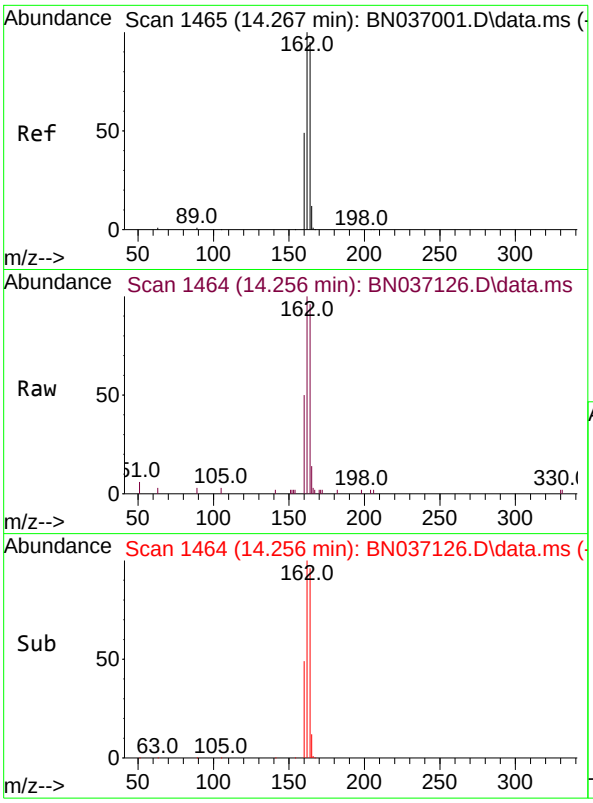


#12
2-Methylnaphthalene
Concen: 0.374 ng
RT: 12.057 min Scan# 1160
Delta R.T. -0.015 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:142 Resp: 3960

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.3	109.9
115	50.8	38.4	57.6



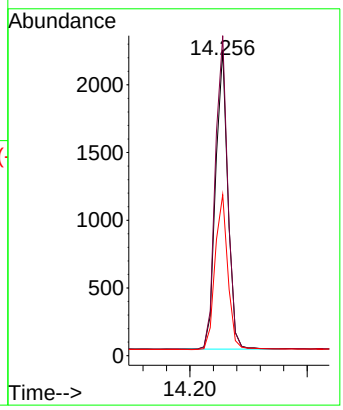


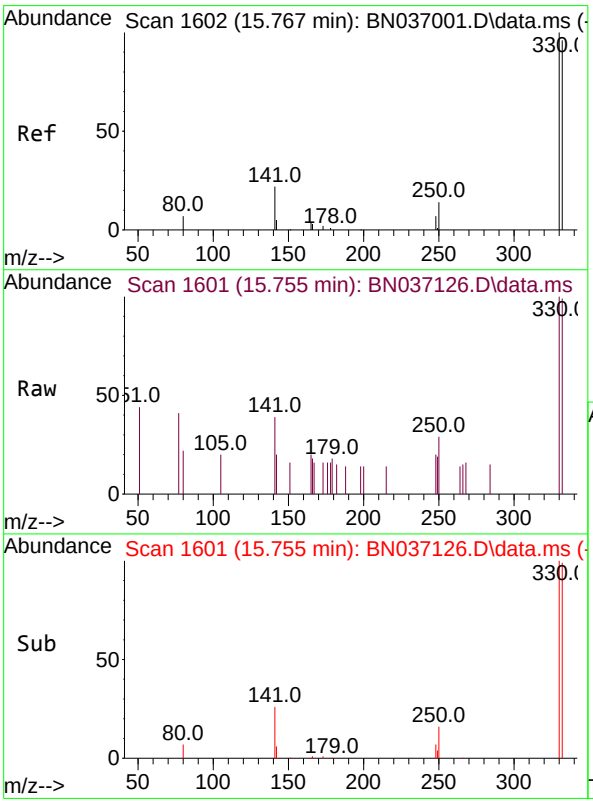
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3201

Ion	Ratio	Lower	Upper
164	100		
162	104.6	84.2	126.4
160	52.6	42.6	63.8

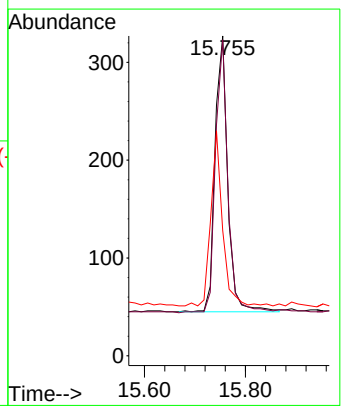


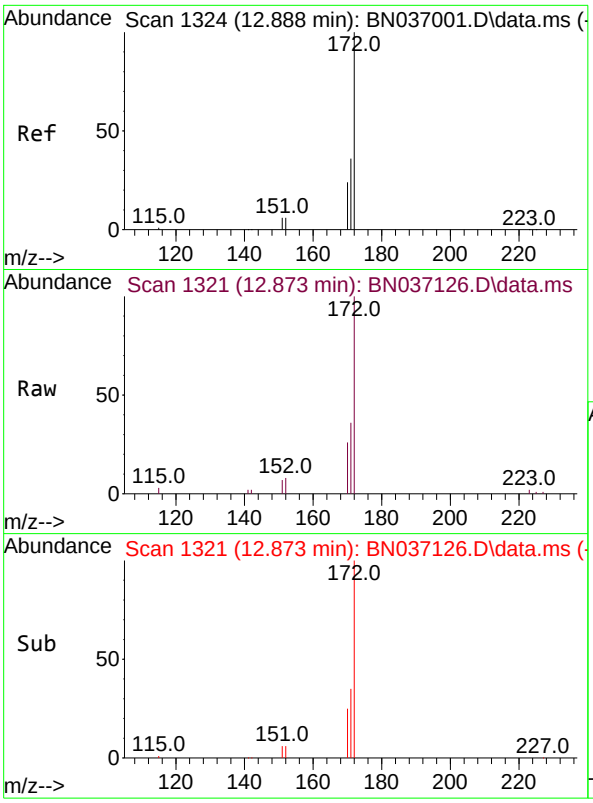


#14
2,4,6-Tribromophenol
Concen: 0.349 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:330 Resp: 491

Ion	Ratio	Lower	Upper
330	100		
332	97.1	73.8	110.8
141	58.5	43.9	65.9



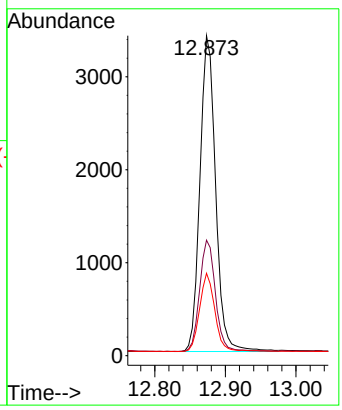


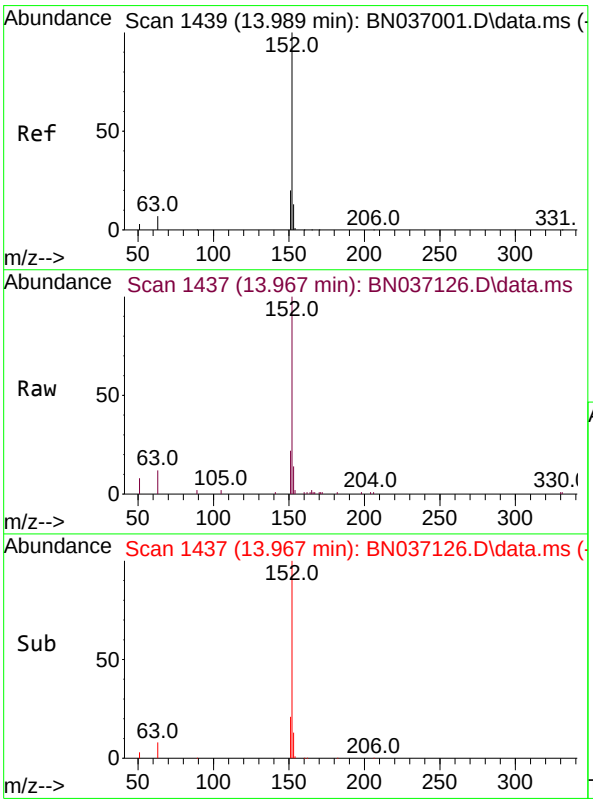
#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.873 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5253

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.2	43.8
170	25.8	20.5	30.7

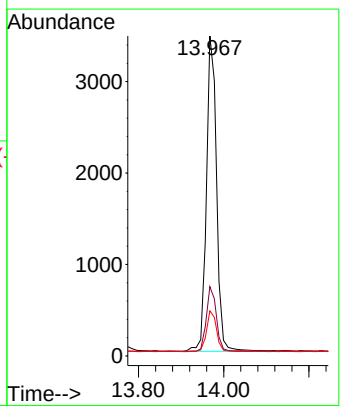


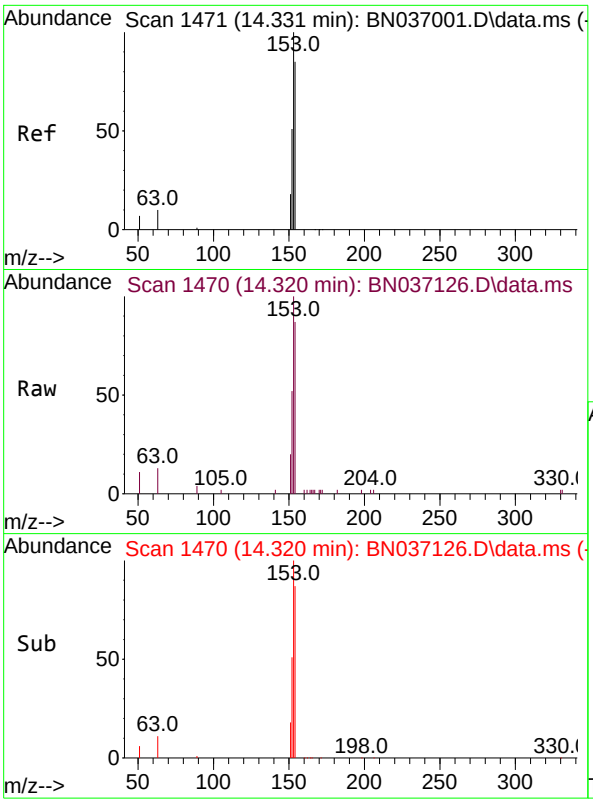


#16
Acenaphthylene
Concen: 0.365 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:152 Resp: 5690

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.1	24.1
153	12.8	10.5	15.7



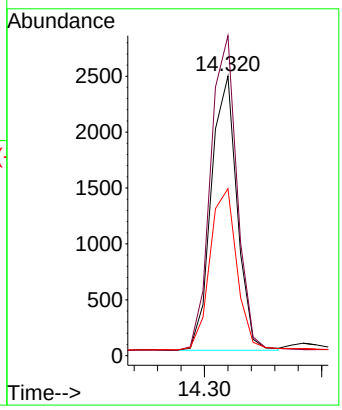


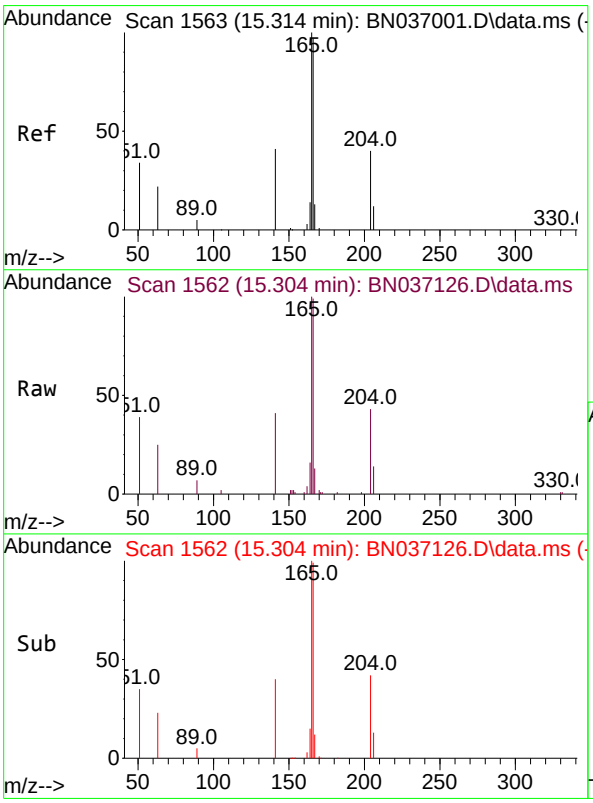
#17
Acenaphthene
Concen: 0.369 ng
RT: 14.320 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3760

Ion	Ratio	Lower	Upper
154	100		
153	117.6	94.2	141.4
152	62.2	49.4	74.0

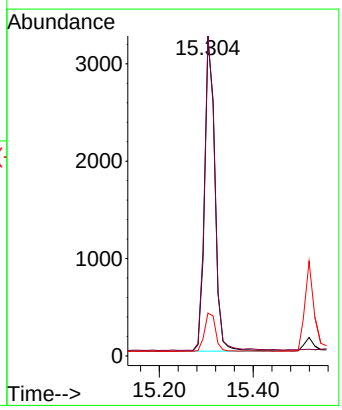


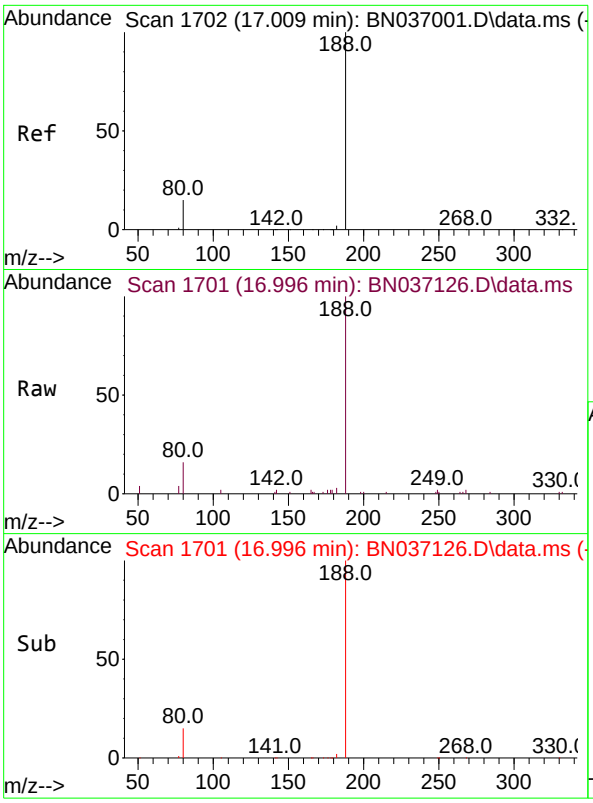


#18
Fluorene
Concen: 0.367 ng
RT: 15.304 min Scan# 1562
Delta R.T. -0.011 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:166 Resp: 4908

Ion	Ratio	Lower	Upper
166	100		
165	100.7	80.6	120.8
167	13.2	10.6	16.0



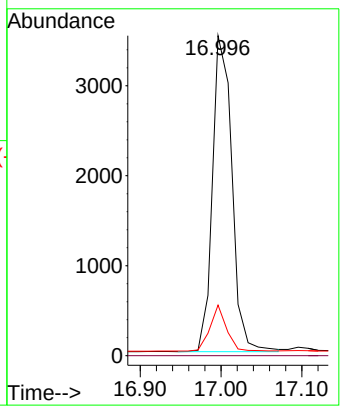


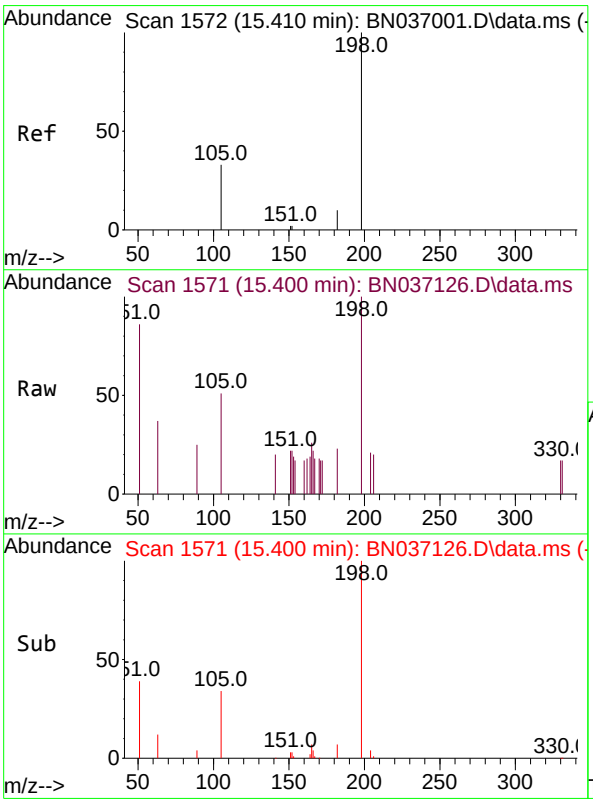
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.996 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 5866

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.8	13.4	20.0

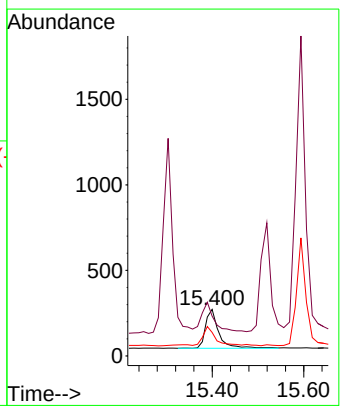


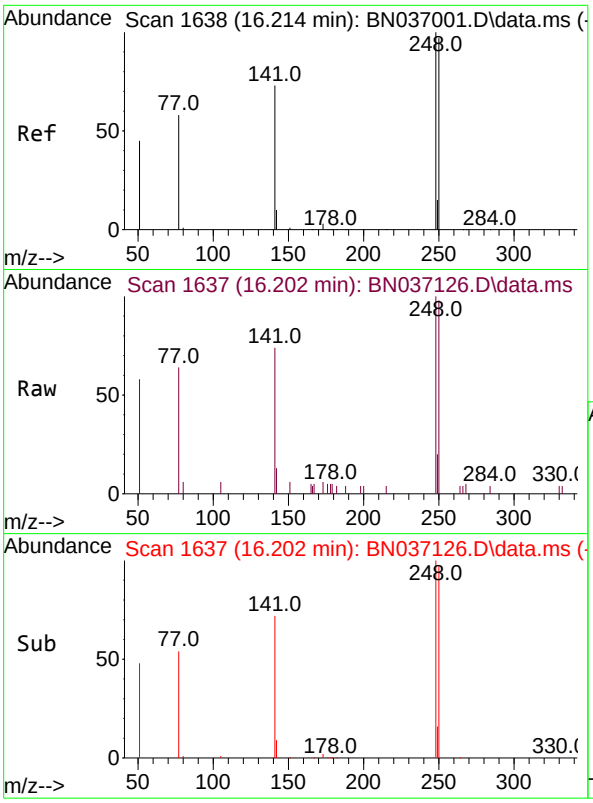


#20
4,6-Dinitro-2-methylphenol
Concen: 0.410 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:198 Resp: 466

Ion	Ratio	Lower	Upper
198	100		
51	85.7	87.8	131.6#
105	50.7	44.2	66.4



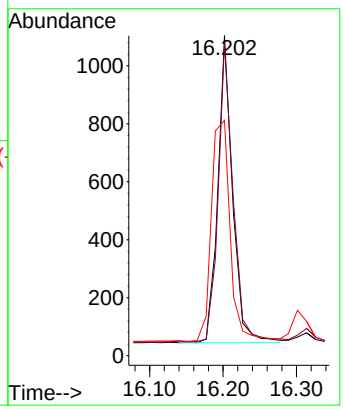


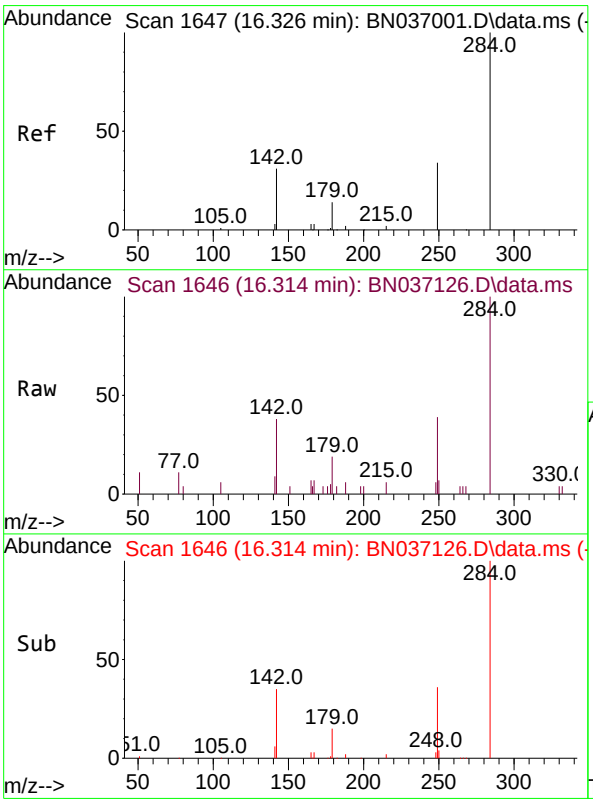
#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1474

Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.1	117.1
141	73.6	59.7	89.5

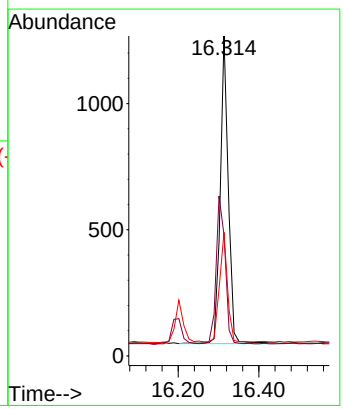


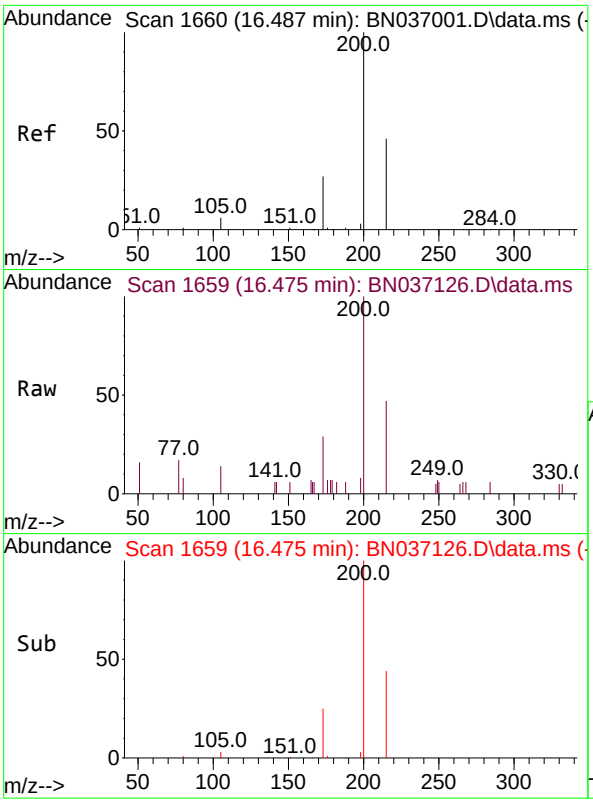


#22
Hexachlorobenzene
Concen: 0.423 ng
RT: 16.314 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:284 Resp: 1676

Ion	Ratio	Lower	Upper
284	100		
142	54.1	41.2	61.8
249	35.3	28.7	43.1



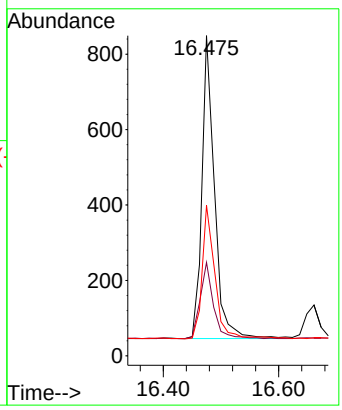


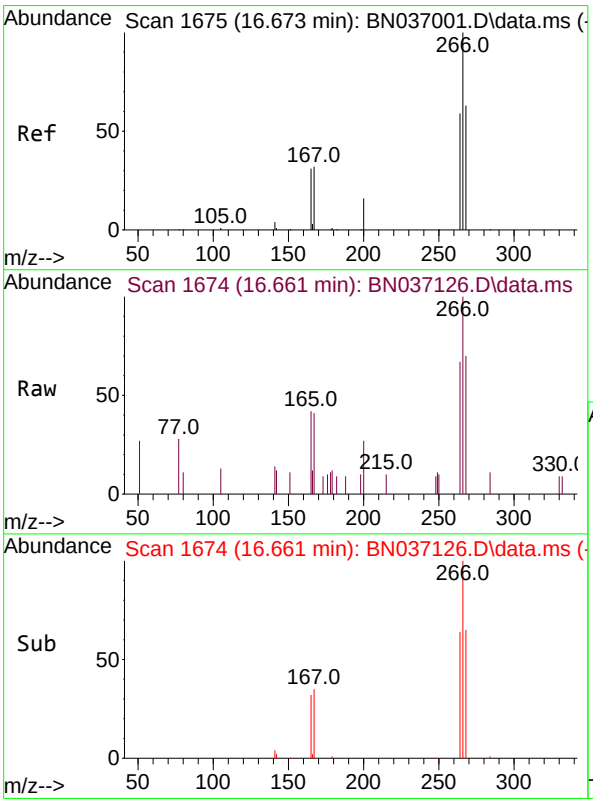
#23
Atrazine
Concen: 0.375 ng
RT: 16.475 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1212

Ion	Ratio	Lower	Upper
200	100		
173	29.2	25.2	37.8
215	47.0	39.3	58.9

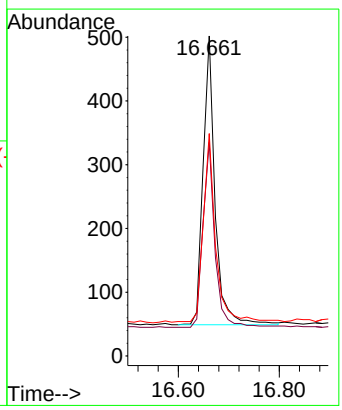


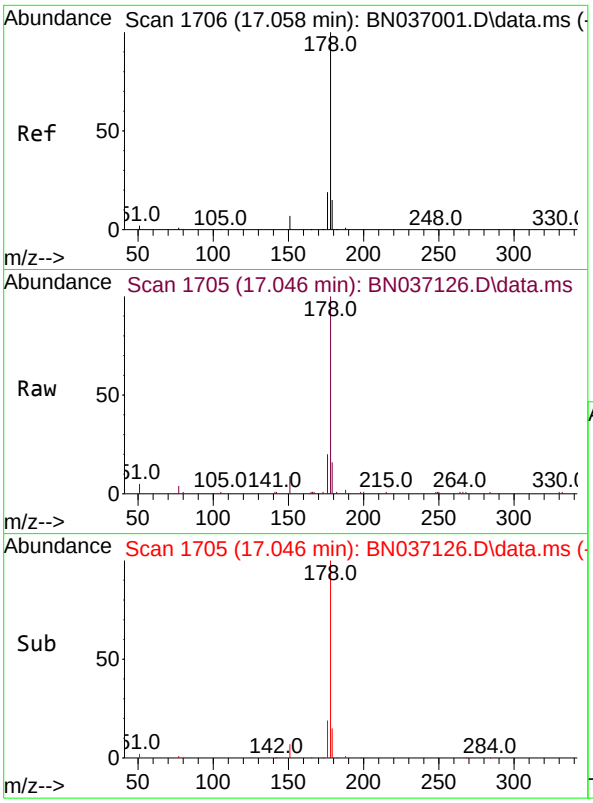


#24
Pentachlorophenol
Concen: 0.342 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:266 Resp: 748

Ion	Ratio	Lower	Upper
266	100		
264	63.5	47.9	71.9
268	66.0	50.0	75.0



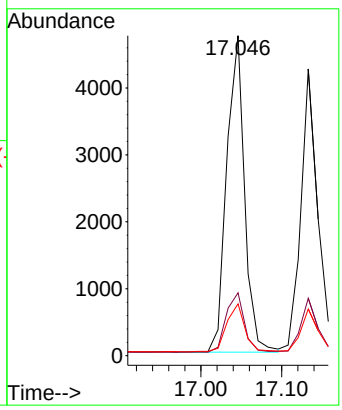


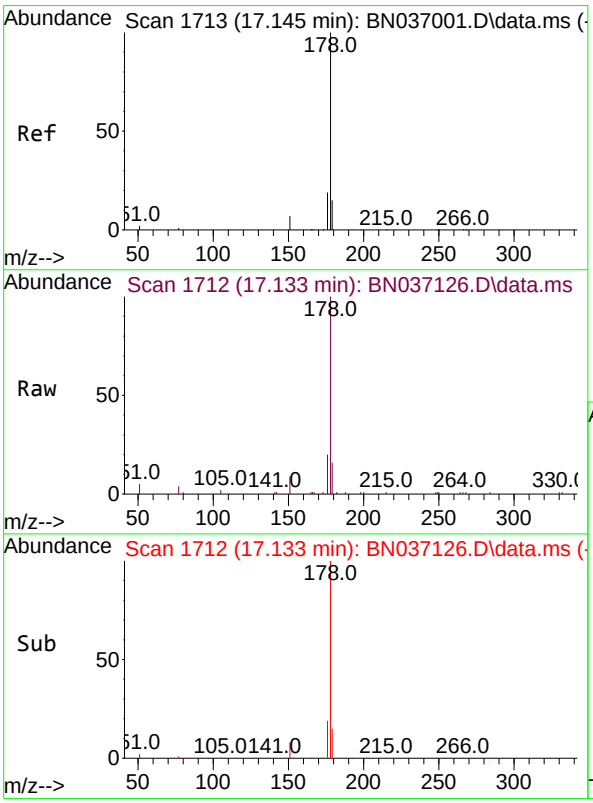
#25
Phenanthrene
Concen: 0.379 ng
RT: 17.046 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 7265

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.5	12.2	18.2

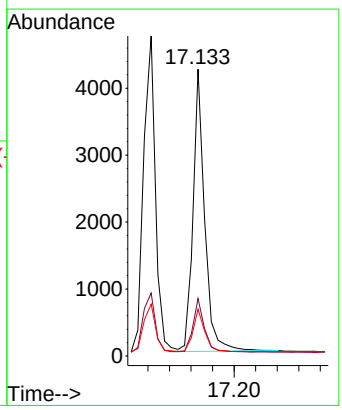


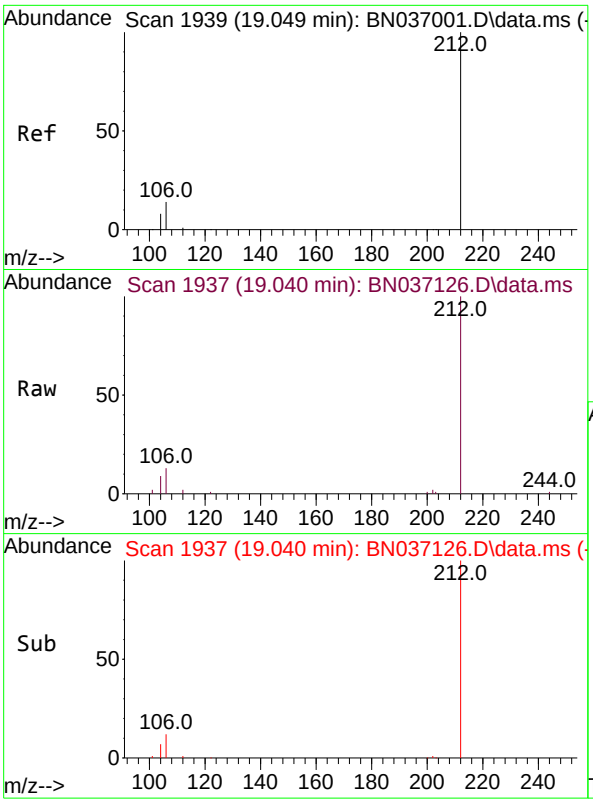


#26
Anthracene
Concen: 0.364 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:178 Resp: 6349

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.3	12.3	18.5



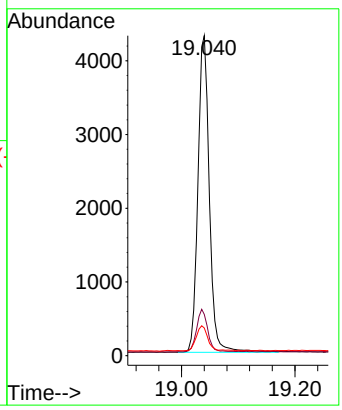


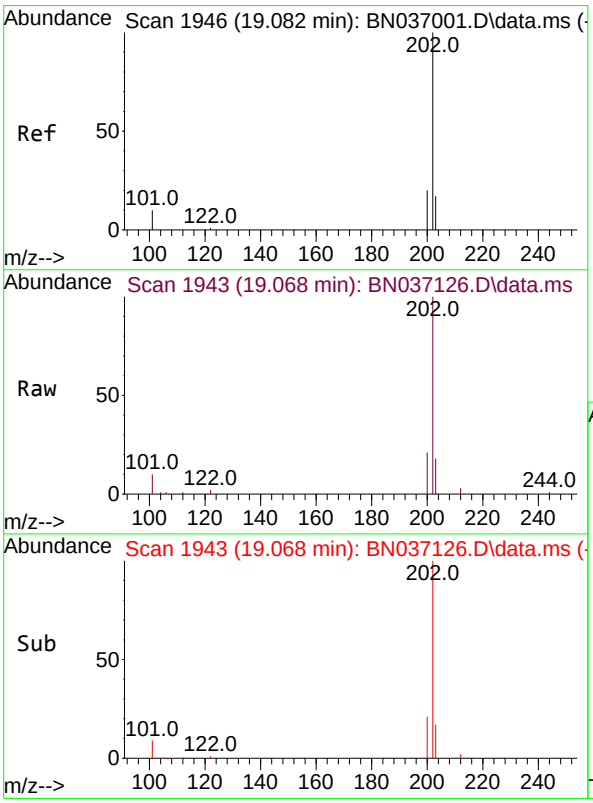
#27
Fluoranthene-d10
Concen: 0.372 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 5978

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.3	16.9
104	7.7	6.7	10.1

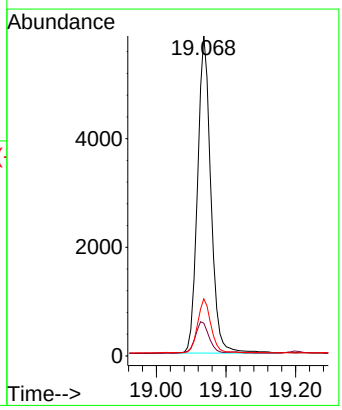


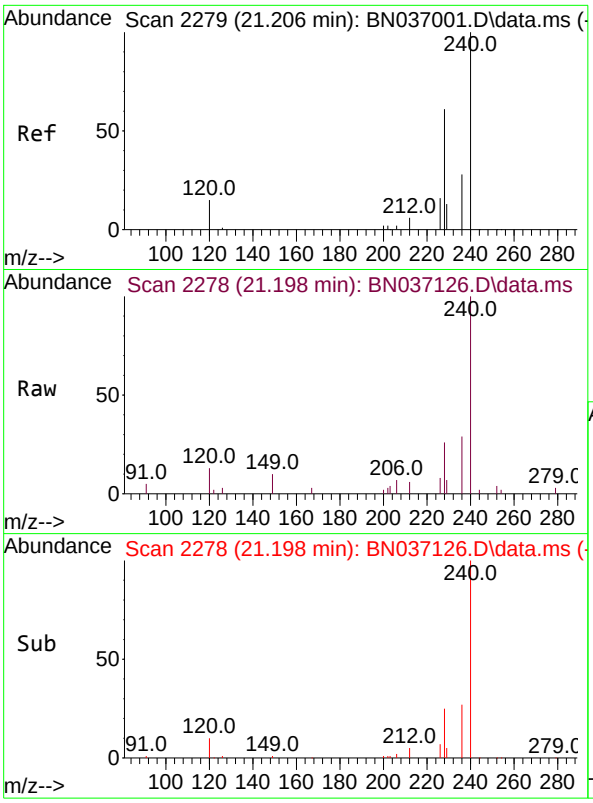


#28
Fluoranthene
Concen: 0.339 ng
RT: 19.068 min Scan# 1943
Delta R.T. -0.014 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:202 Resp: 7765

Ion	Ratio	Lower	Upper
202	100		
101	10.2	8.9	13.3
203	16.9	13.8	20.8



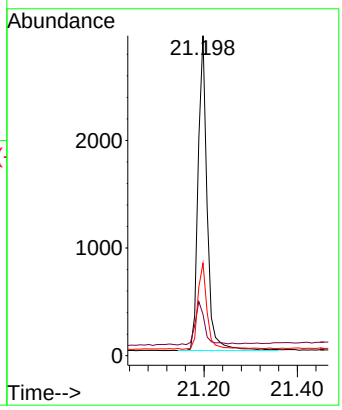


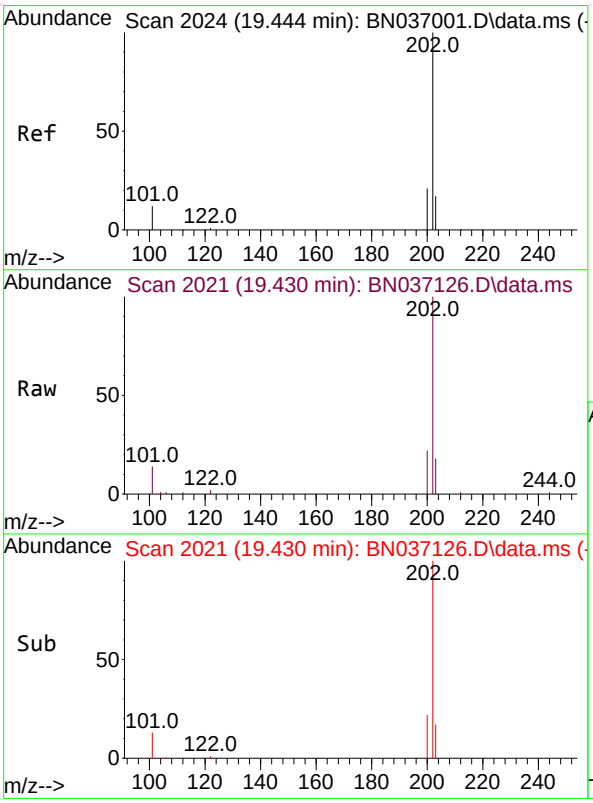
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 3944

Ion	Ratio	Lower	Upper
240	100		
120	12.9	15.1	22.7#
236	28.9	24.0	36.0

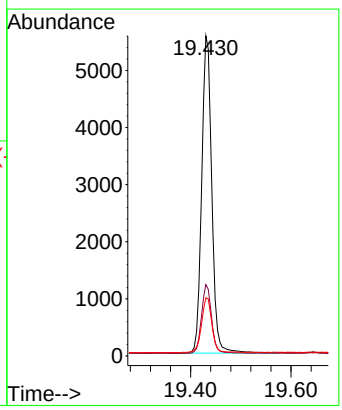


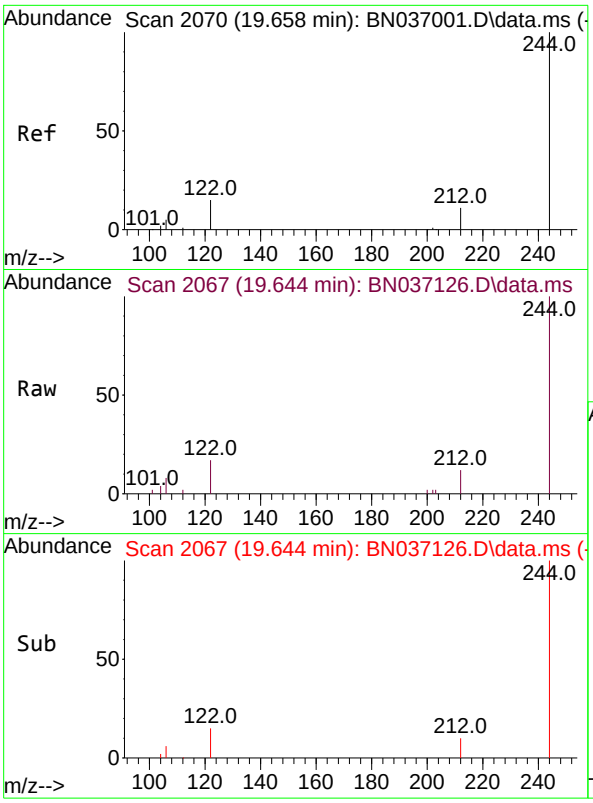


#30
Pyrene
Concen: 0.460 ng
RT: 19.430 min Scan# 2021
Delta R.T. -0.014 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:202 Resp: 7766

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.9	14.2	21.4



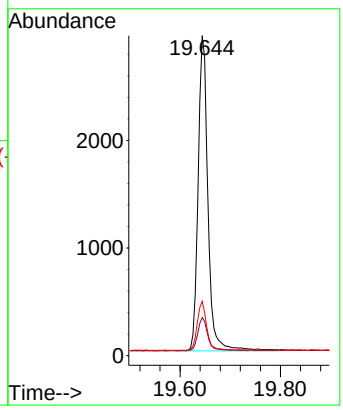


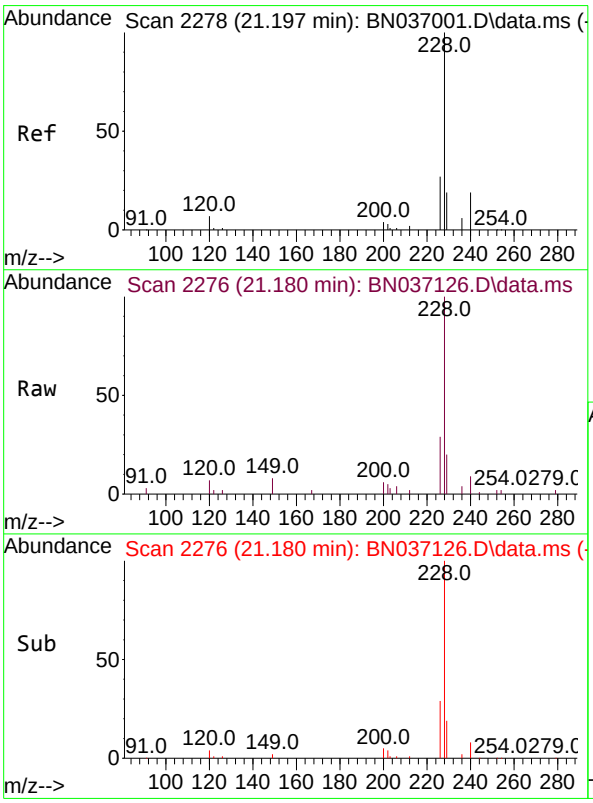
#31
Terphenyl-d14
Concen: 0.469 ng
RT: 19.644 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 3958

Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.7	14.5
122	17.0	13.4	20.0

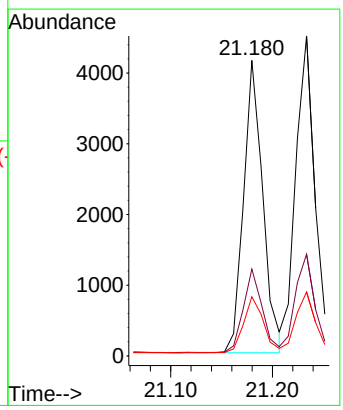


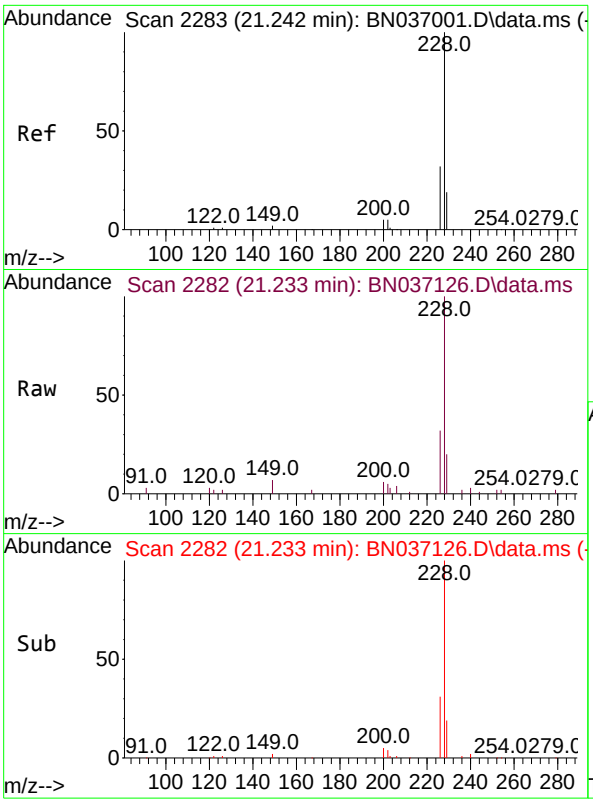


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.018 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:228 Resp: 5419

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	20.0	16.0	24.0



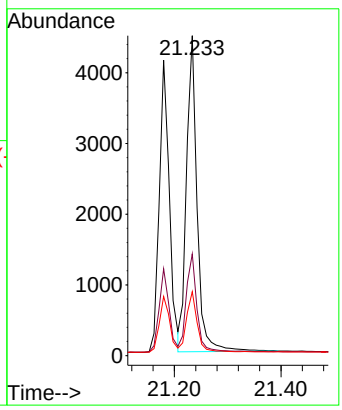


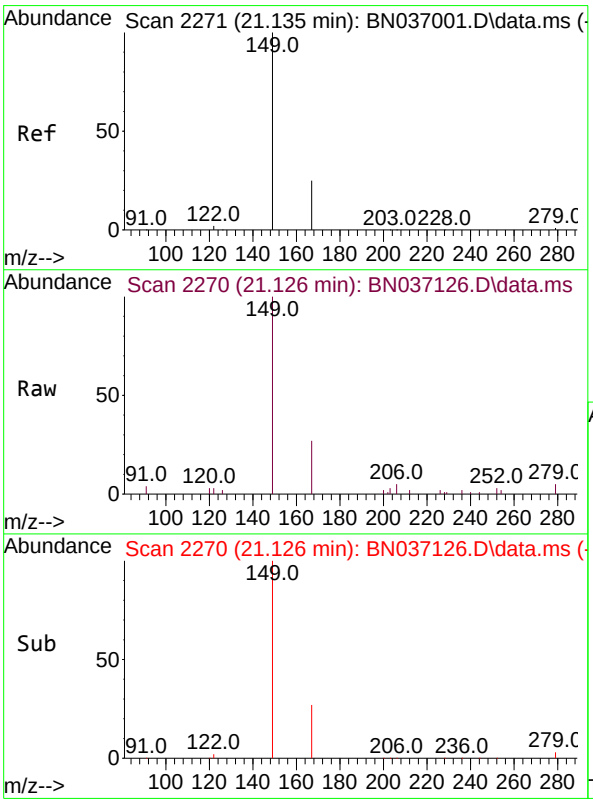
#33
Chrysene
Concen: 0.394 ng
RT: 21.233 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 6182

Ion	Ratio	Lower	Upper
228	100		
226	31.8	26.3	39.5
229	20.0	16.2	24.2

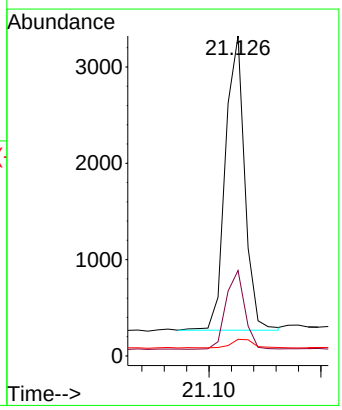


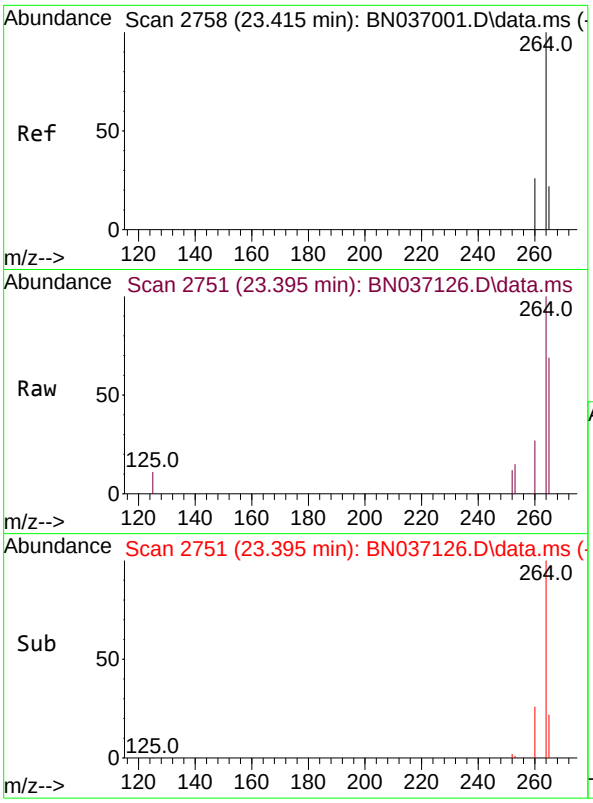


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.401 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:149 Resp: 3666

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.6	30.8
279	3.5	2.6	3.8



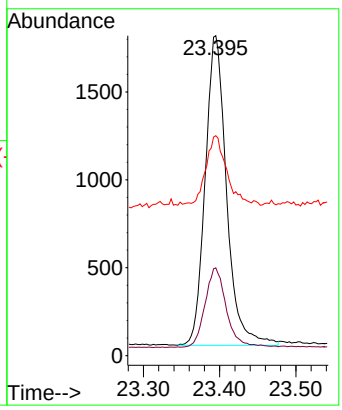


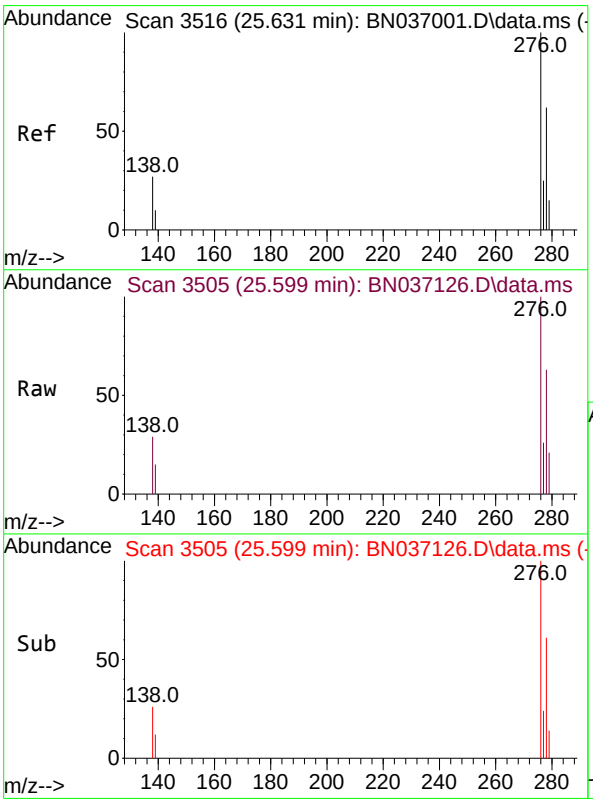
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.395 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 3424

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.9	32.9
265	68.7	51.6	77.4

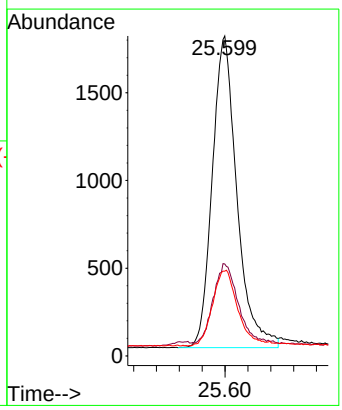


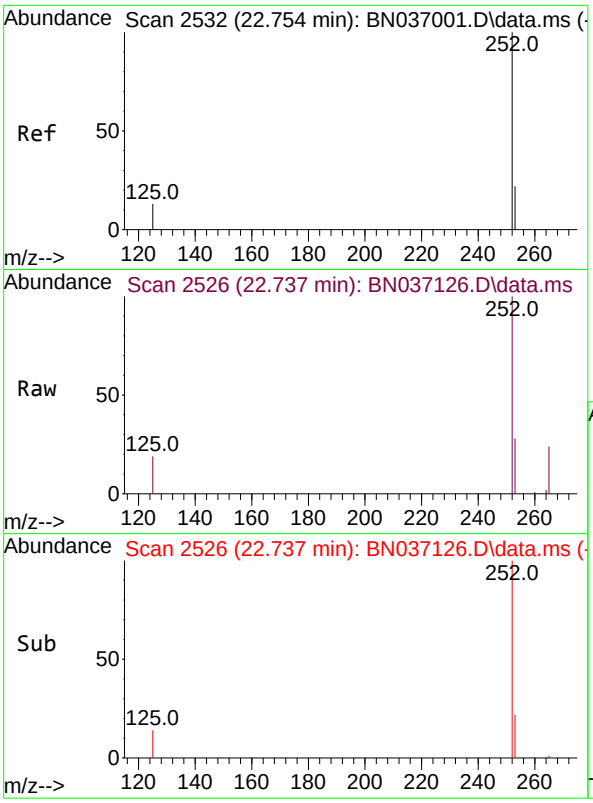


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.599 min Scan# 3505
Delta R.T. -0.032 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:276 Resp: 5322

Ion	Ratio	Lower	Upper
276	100		
138	25.7	22.7	34.1
277	24.8	20.0	30.0



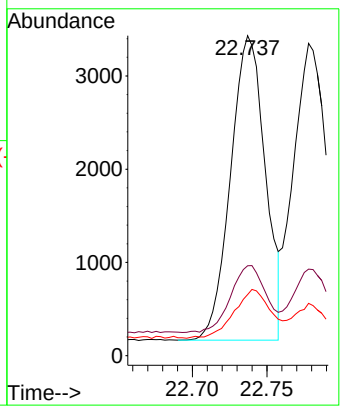


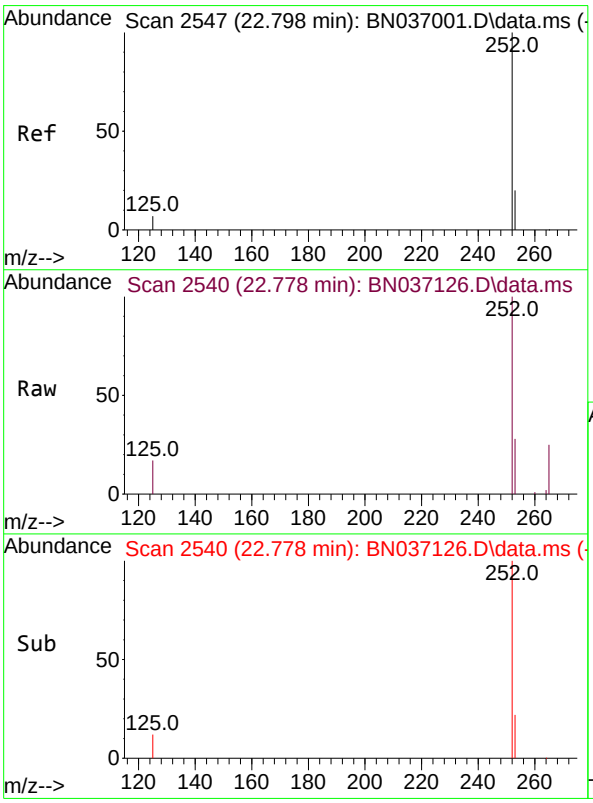
#37
Benzo(b)fluoranthene
Concen: 0.371 ng
RT: 22.737 min Scan# 2
Delta R.T. -0.017 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 5275

Ion	Ratio	Lower	Upper
252	100		
253	28.1	21.8	32.6
125	19.1	14.6	21.8

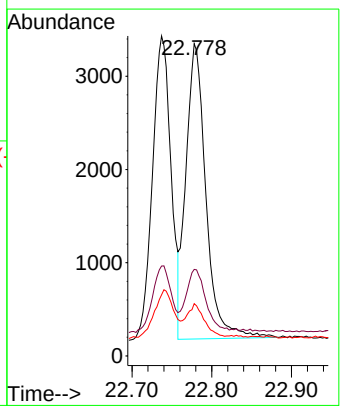


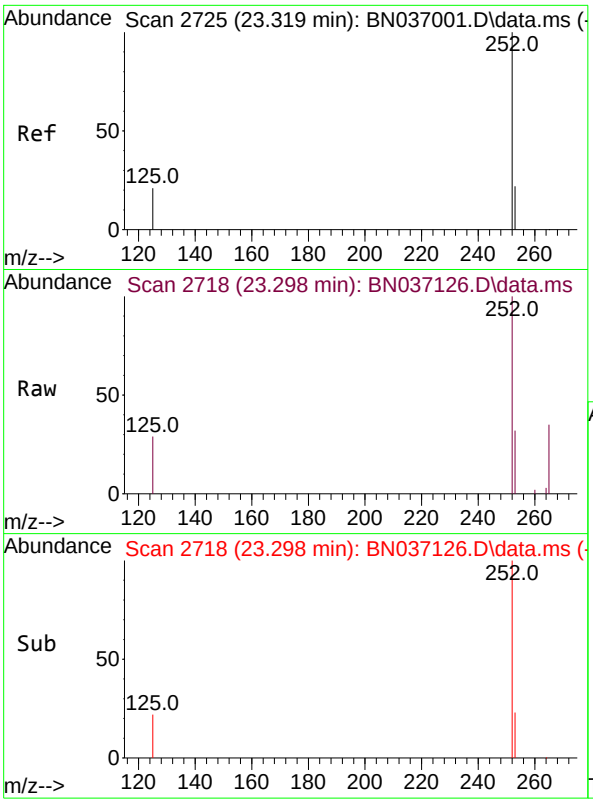


#38
Benzo(k)fluoranthene
Concen: 0.394 ng
RT: 22.778 min Scan# 2540
Delta R.T. -0.020 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:252 Resp: 5528

Ion	Ratio	Lower	Upper
252	100		
253	27.7	21.4	32.2
125	16.8	13.0	19.4



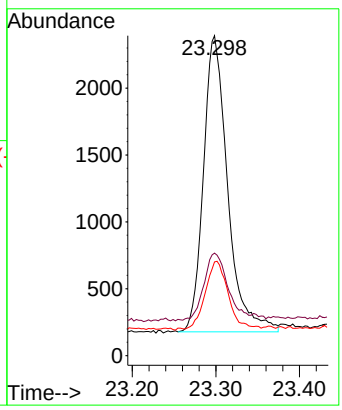


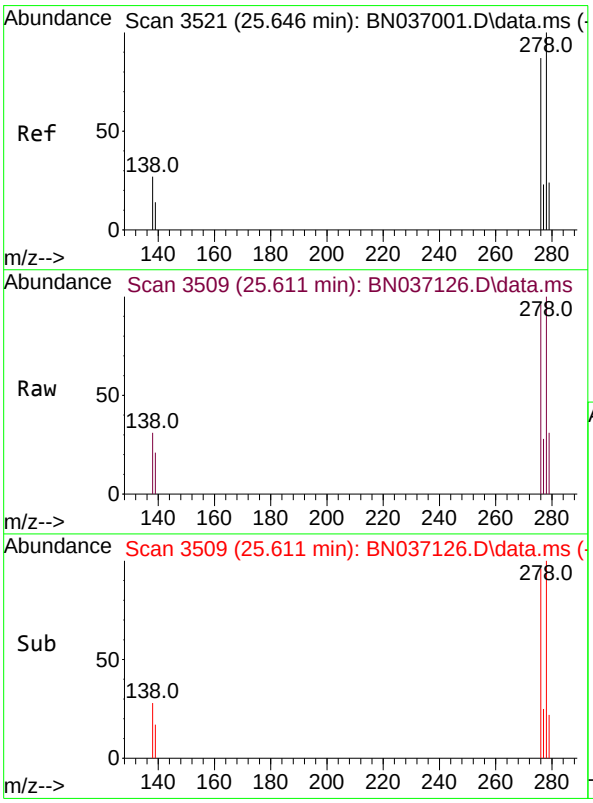
#39
Benzo(a)pyrene
Concen: 0.370 ng
RT: 23.298 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 4455

Ion	Ratio	Lower	Upper
252	100		
253	32.1	23.8	35.6
125	29.3	21.8	32.6

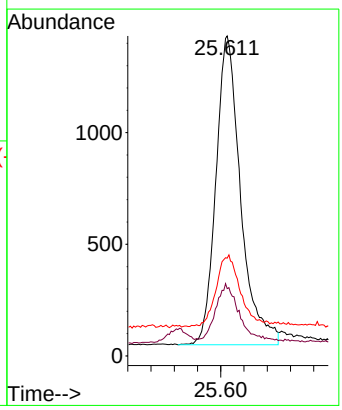


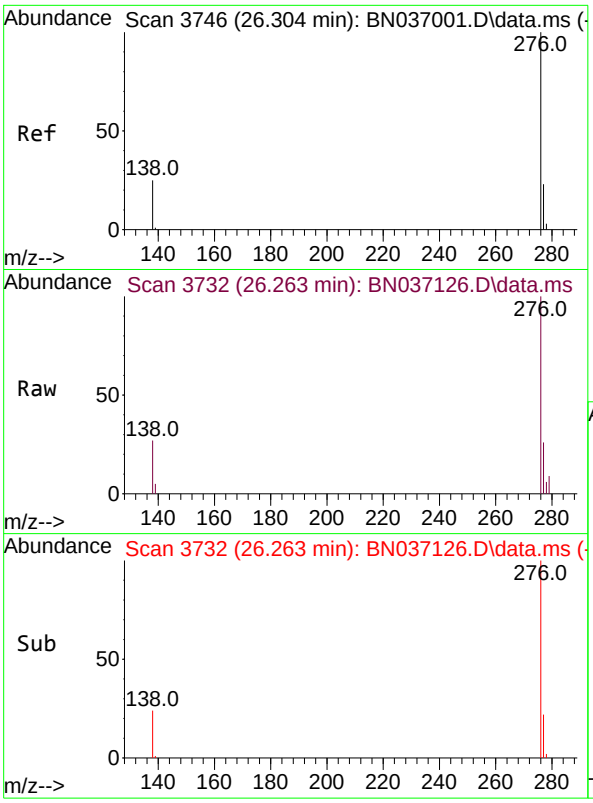


#40
Dibenzo(a,h)anthracene
Concen: 0.375 ng
RT: 25.611 min Scan# 3509
Delta R.T. -0.035 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Tgt Ion:278 Resp: 4085

Ion	Ratio	Lower	Upper
278	100		
139	21.1	17.4	26.0
279	30.6	24.6	37.0



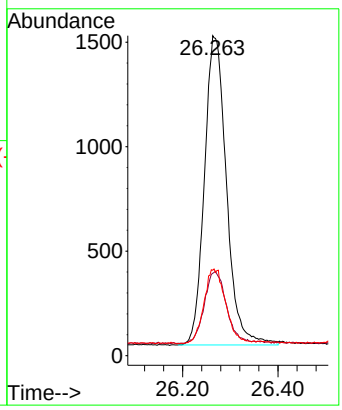


#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 26.263 min Scan# 3
Delta R.T. -0.041 min
Lab File: BN037126.D
Acq: 29 May 2025 01:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 4756

Ion	Ratio	Lower	Upper
276	100		
277	25.7	20.2	30.4
138	26.7	22.0	33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037126.D
Acq On : 29 May 2025 01:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 29 03:44:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	117	0.00
2		1,4-Dioxane	0.491	0.459	6.5	105	0.00
3		n-Nitrosodimethylamine	1.054	1.063	-0.9	127	0.00
4	S	2-Fluorophenol	1.048	0.946	9.7	98	-0.01
5	S	Phenol-d6	1.311	1.170	10.8	99	-0.01
6		bis(2-Chloroethyl)ether	1.207	1.139	5.6	116	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	121	-0.02
8	S	Nitrobenzene-d5	0.436	0.407	6.7	124	-0.01
9		Naphthalene	1.182	1.115	5.7	118	-0.01
10		Hexachlorobutadiene	0.248	0.253	-2.0	126	-0.02
11	SURR	2-Methylnaphthalene-d10	0.563	0.577	-2.5	127	0.00
12		2-Methylnaphthalene	0.760	0.711	6.4	117	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	125	-0.01
14	S	2,4,6-Tribromophenol	0.176	0.153	13.1	108	-0.01
15	S	2-Fluorobiphenyl	1.832	1.641	10.4	108	-0.02
16		Acenaphthylene	1.947	1.778	8.7	117	-0.02
17		Acenaphthene	1.272	1.175	7.6	118	-0.01
18		Fluorene	1.669	1.533	8.1	117	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	117	-0.01
20		4,6-Dinitro-2-methylphenol	0.090	0.079	12.2	127	-0.01
21		4-Bromophenyl-phenylether	0.253	0.251	0.8	118	-0.01
22		Hexachlorobenzene	0.270	0.286	-5.9	119	-0.01
23		Atrazine	0.220	0.207	5.9	115	-0.01
24		Pentachlorophenol	0.149	0.128	14.1	106	-0.01
25		Phenanthrene	1.307	1.238	5.3	112	-0.01
26		Anthracene	1.190	1.082	9.1	109	-0.01
27	SURR	Fluoranthene-d10	1.097	1.019	7.1	111	0.00
28		Fluoranthene	1.562	1.324	15.2	103	-0.01
29	I	Chrysene-d12	1.000	1.000	0.0	88	0.00
30		Pyrene	1.711	1.969	-15.1	101	-0.01
31	S	Terphenyl-d14	0.856	1.004	-17.3	102	-0.01
32		Benzo(a)anthracene	1.506	1.374	8.8	82	-0.02
33		Chrysene	1.593	1.567	1.6	86	0.00
34		Bis(2-ethylhexyl)phthalate	0.927	0.930	-0.3	91	0.00
35	I	Perylene-d12	1.000	1.000	0.0	76	-0.02
36		Indeno(1,2,3-cd)pyrene	1.634	1.554	4.9	72	-0.03
37		Benzo(b)fluoranthene	1.659	1.541	7.1	73	-0.02
38		Benzo(k)fluoranthene	1.639	1.614	1.5	74	-0.02
39	C	Benzo(a)pyrene	1.407	1.301	7.5	71	-0.02
40		Dibenzo(a,h)anthracene	1.272	1.193	6.2	71	-0.03
41		Benzo(g,h,i)perylene	1.383	1.389	-0.4	74	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037126.D
Acq On : 29 May 2025 01:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 29 03:44:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	117	0.00
2		1,4-Dioxane	0.400	0.374	6.5	105	0.00
3		n-Nitrosodimethylamine	0.400	0.403	-0.8	127	0.00
4	S	2-Fluorophenol	0.400	0.361	9.8	98	-0.01
5	S	Phenol-d6	0.400	0.357	10.8	99	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.377	5.8	116	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	121	-0.02
8	S	Nitrobenzene-d5	0.400	0.374	6.5	124	-0.01
9		Naphthalene	0.400	0.377	5.8	118	-0.01
10		Hexachlorobutadiene	0.400	0.408	-2.0	126	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.410	-2.5	127	0.00
12		2-Methylnaphthalene	0.400	0.374	6.5	117	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	125	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.349	12.8	108	-0.01
15	S	2-Fluorobiphenyl	0.400	0.358	10.5	108	-0.02
16		Acenaphthylene	0.400	0.365	8.8	117	-0.02
17		Acenaphthene	0.400	0.369	7.8	118	-0.01
18		Fluorene	0.400	0.367	8.3	117	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	117	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.410	-2.5	127	-0.01
21		4-Bromophenyl-phenylether	0.400	0.398	0.5	118	-0.01
22		Hexachlorobenzene	0.400	0.423	-5.7	119	-0.01
23		Atrazine	0.400	0.375	6.3	115	-0.01
24		Pentachlorophenol	0.400	0.342	14.5	106	-0.01
25		Phenanthrene	0.400	0.379	5.3	112	-0.01
26		Anthracene	0.400	0.364	9.0	109	-0.01
27	SURR	Fluoranthene-d10	0.400	0.372	7.0	111	0.00
28		Fluoranthene	0.400	0.339	15.3	103	-0.01
29	I	Chrysene-d12	0.400	0.400	0.0	88	0.00
30		Pyrene	0.400	0.460	-15.0	101	-0.01
31	S	Terphenyl-d14	0.400	0.469	-17.2	102	-0.01
32		Benzo(a)anthracene	0.400	0.365	8.8	82	-0.02
33		Chrysene	0.400	0.394	1.5	86	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.401	-0.3	91	0.00
35	I	Perylene-d12	0.400	0.400	0.0	76	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.381	4.8	72	-0.03
37		Benzo(b)fluoranthene	0.400	0.371	7.3	73	-0.02
38		Benzo(k)fluoranthene	0.400	0.394	1.5	74	-0.02
39	C	Benzo(a)pyrene	0.400	0.370	7.5	71	-0.02
40		Dibenzo(a,h)anthracene	0.400	0.375	6.3	71	-0.03
41		Benzo(g,h,i)perylene	0.400	0.402	-0.5	74	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

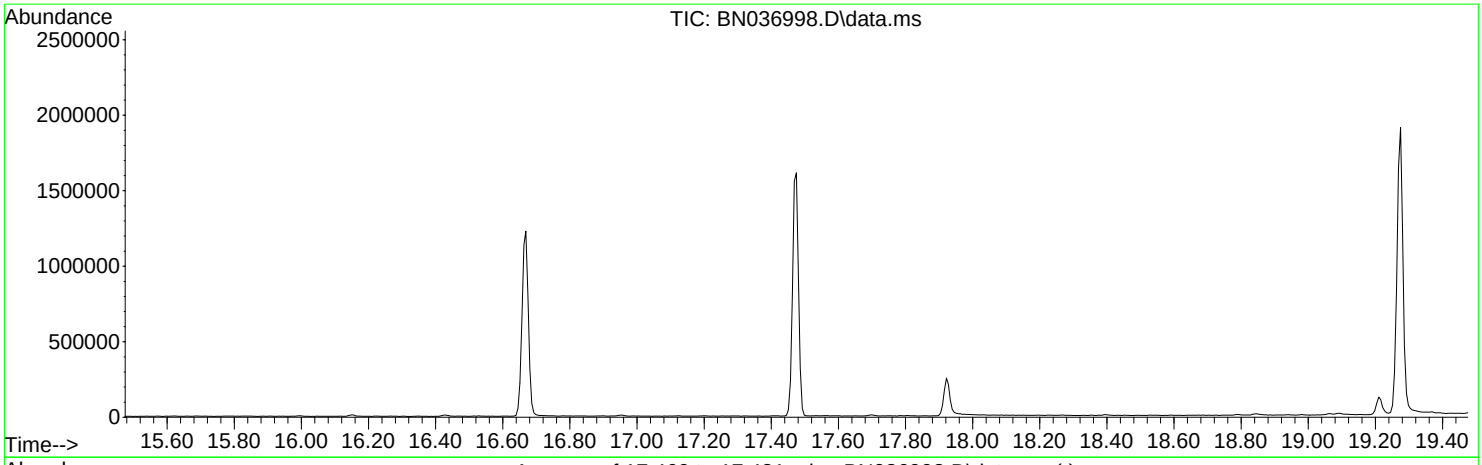
QC SAMPLE DATA

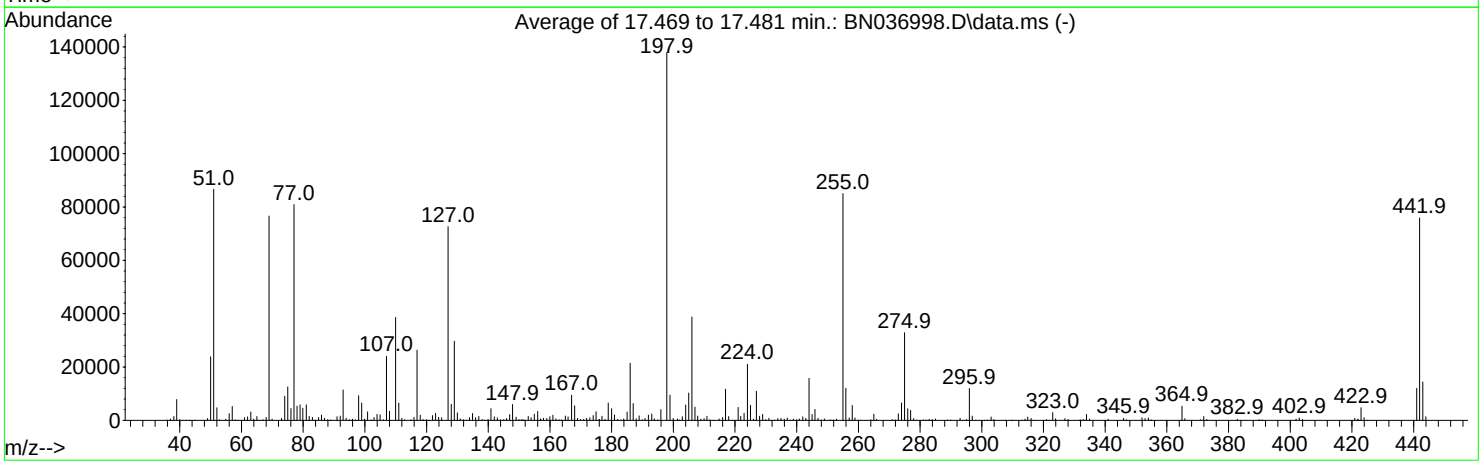
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 00:45:40 2025





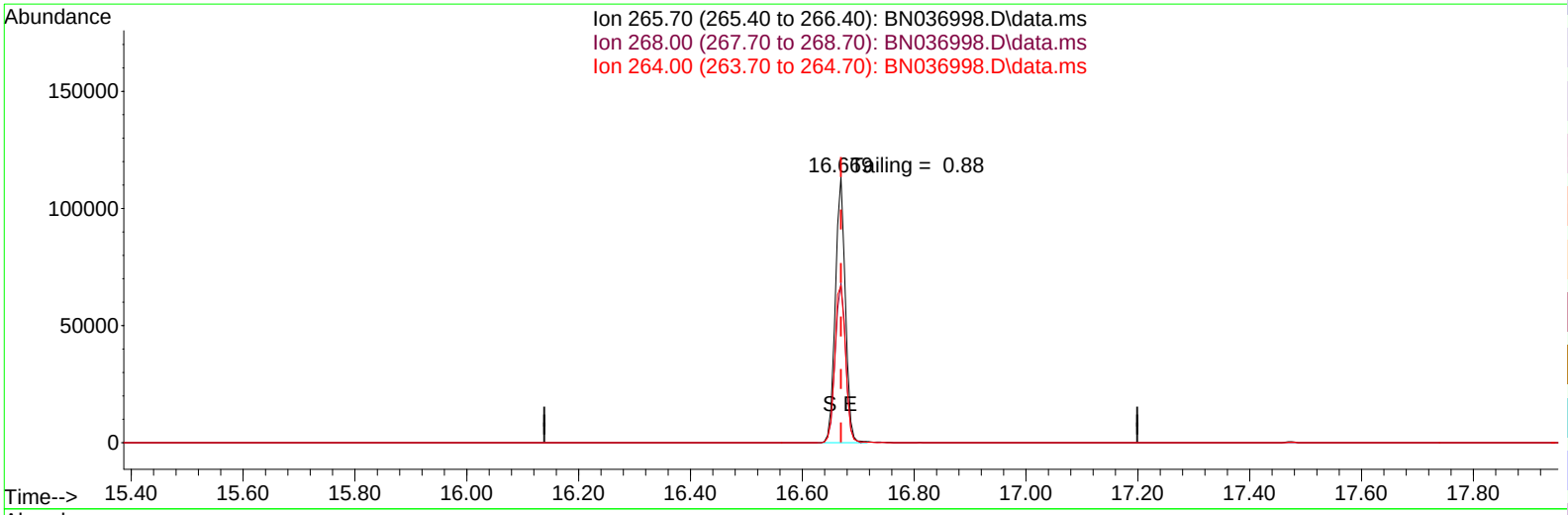
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2472

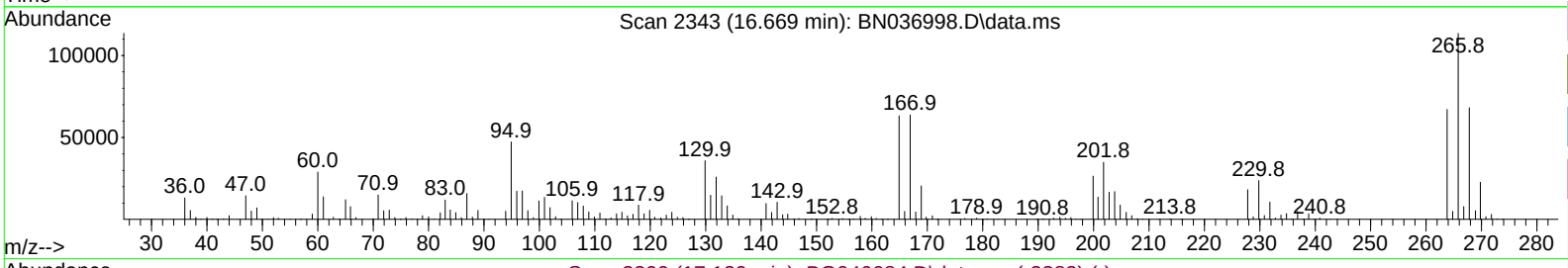
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	62.8	86619	PASS
68	69	0.00	2	1.4	1066	PASS
69	198	0.00	100	55.6	76627	PASS
70	69	0.00	2	0.6	478	PASS
127	198	10	80	52.7	72651	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	137931	PASS
199	198	5	9	6.9	9502	PASS
275	198	10	60	23.8	32893	PASS
365	198	1	100	3.9	5315	PASS
441	198	0.01	100	8.7	12010	PASS
442	442	50	100	100.0	75872	PASS
443	442	15	24	19.0	14396	PASS

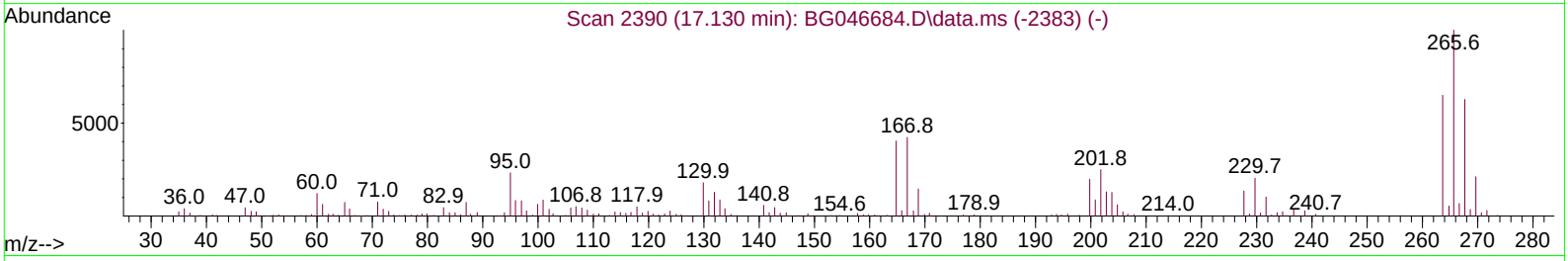
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 14 01:22:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 01:22:17 2025
Response via : Initial Calibration







TIC: BN036998.D\data.ms

(70) Pentachlorophenol (C)

16.669min (0.000) 18563.73 ng

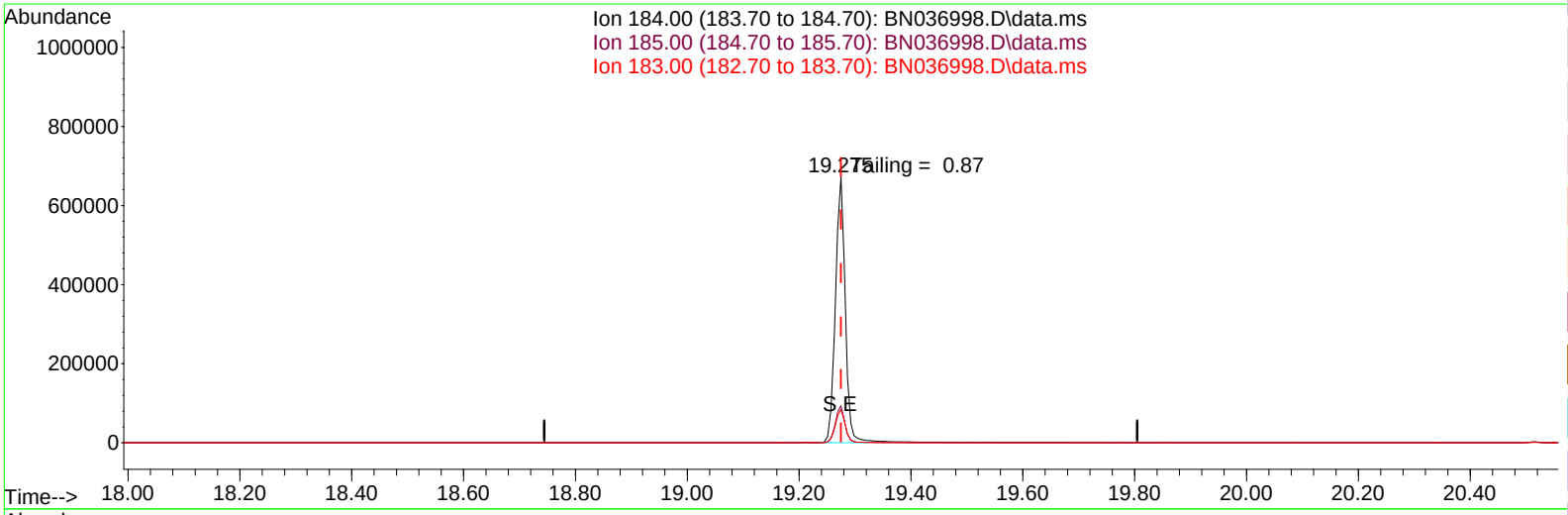
response 141750

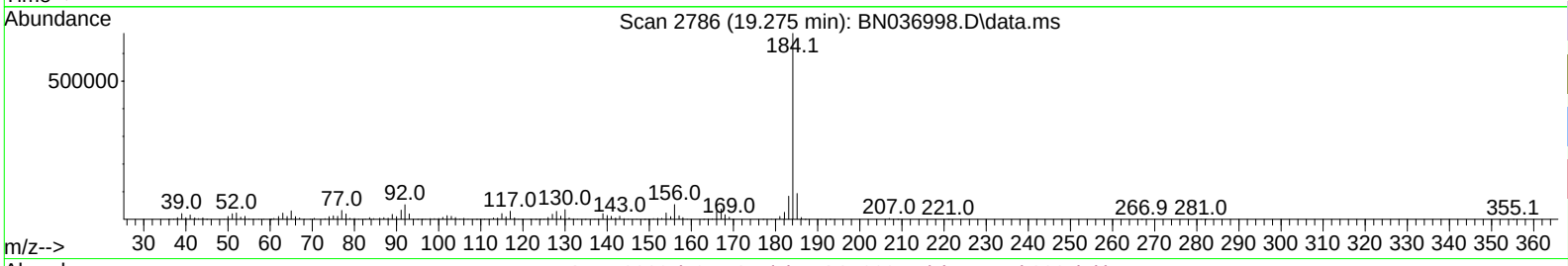
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.06
264.00	61.60	59.13
0.00	0.00	0.00

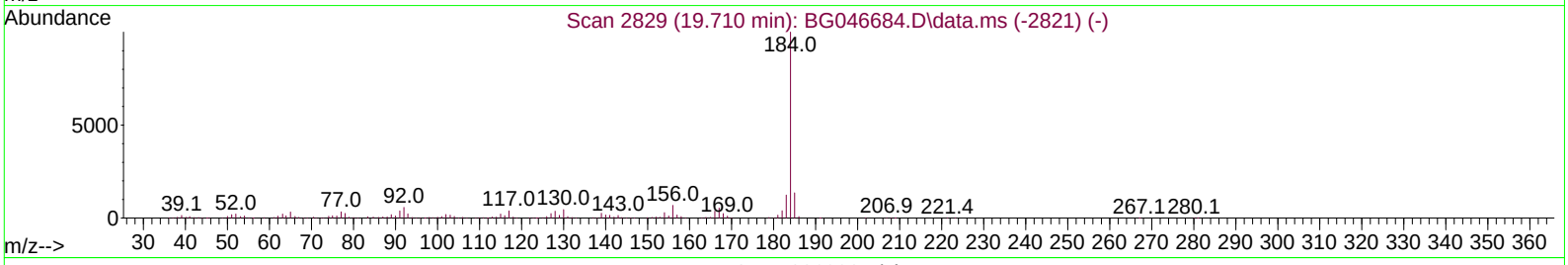
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 14 01:22:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 01:22:17 2025
Response via : Initial Calibration







TIC: BN036998.D\data.ms

(77) Benzidine

19.275min (0.000) 0.00 ng

response 833154

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.89
183.00	13.20	12.48
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

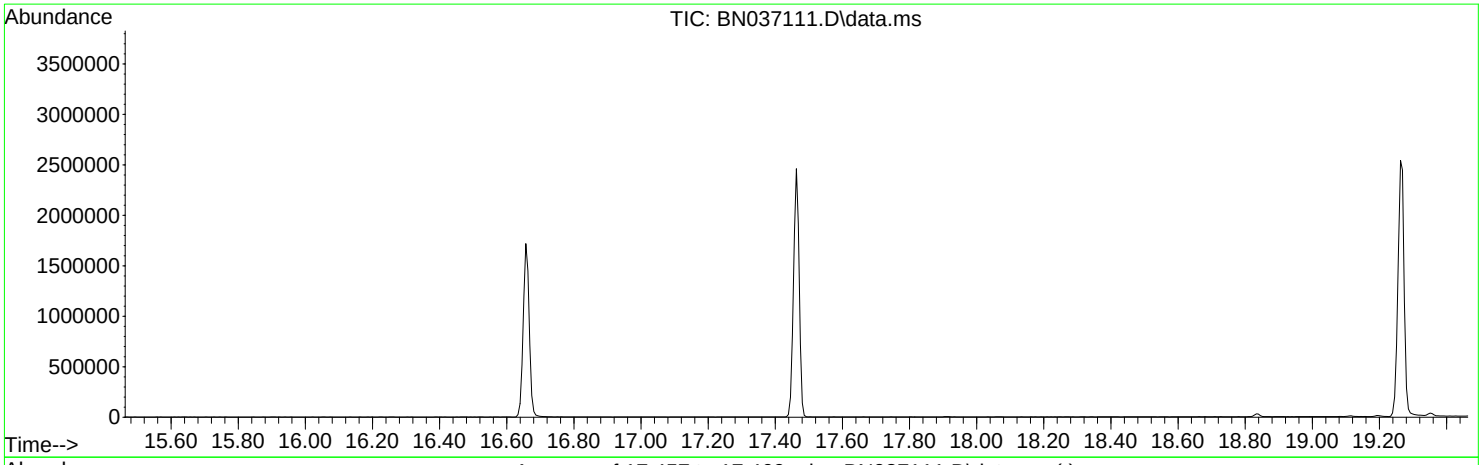
Date	Instrument Name	DFTPP Data File
5/14/2025	BNA_N	BN036998.D
Compound Name	**Response**	**Retention Time**
DDT	424954	20.516
DDD	27353	20.075
DDE	333	19.563
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
27686	452640	6.12

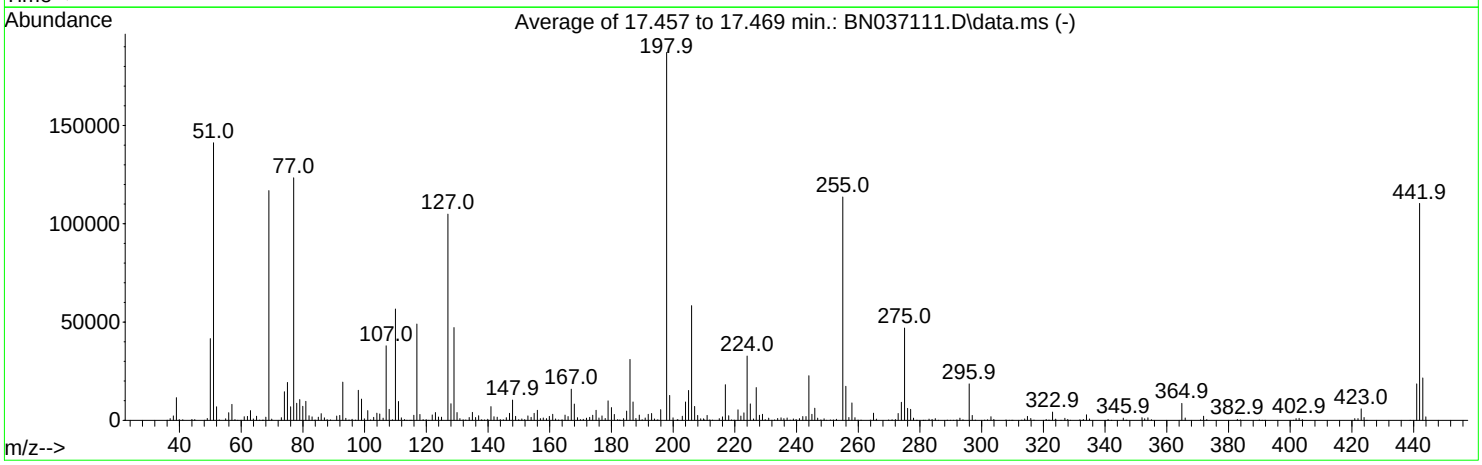
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037111.D
Acq On : 28 May 2025 16:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 11:26:32 2025





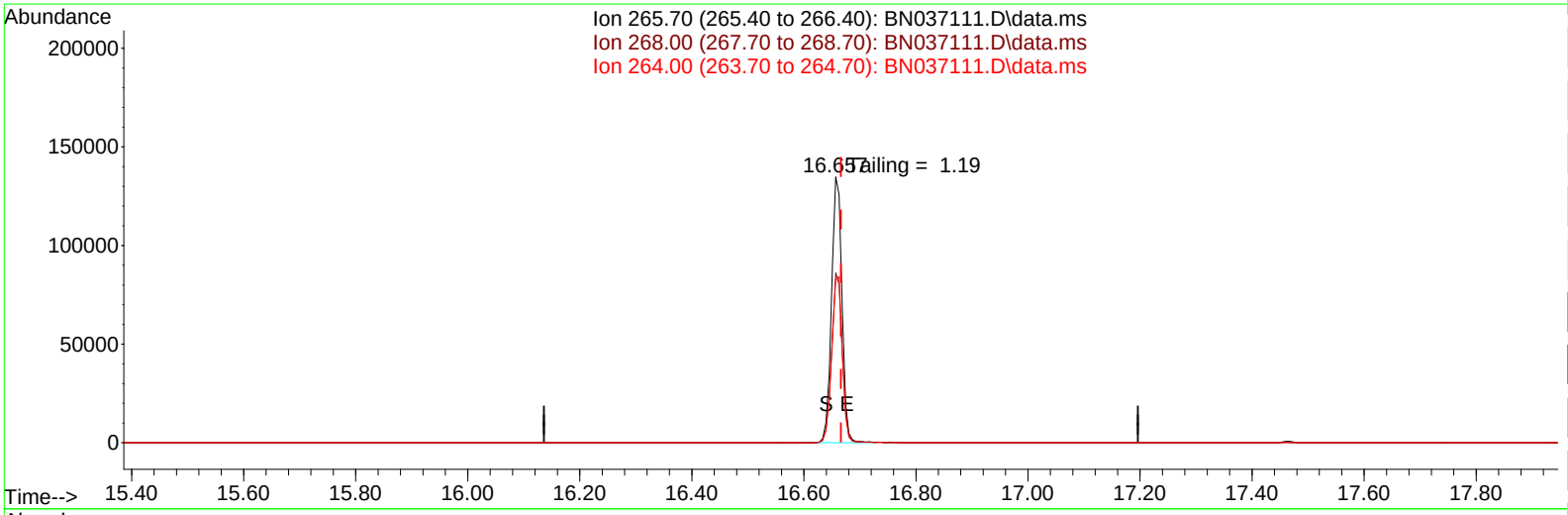
AutoFind: Scans 2477, 2478, 2479; Background Corrected with Scan 2470

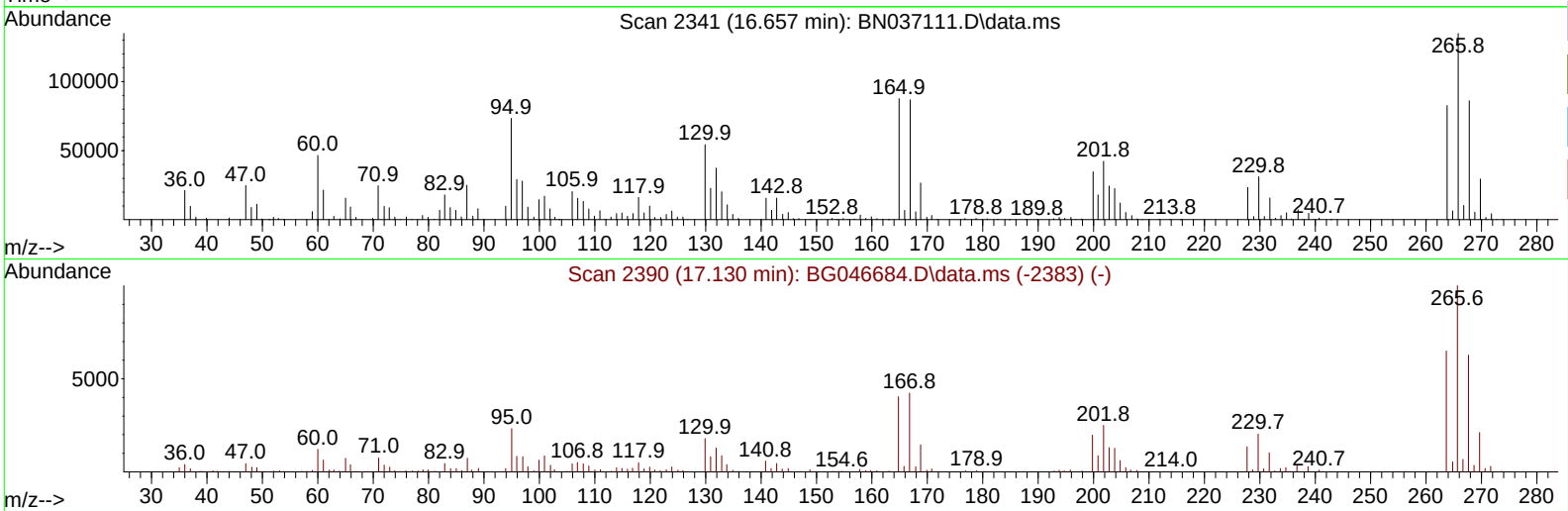
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	75.5	141235	PASS
68	69	0.00	2	1.4	1593	PASS
69	198	0.00	100	62.5	116904	PASS
70	69	0.00	2	0.6	671	PASS
127	198	10	80	56.1	104909	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	187115	PASS
199	198	5	9	6.8	12715	PASS
275	198	10	60	25.1	46952	PASS
365	198	1	100	4.6	8660	PASS
441	198	0.01	100	9.9	18566	PASS
442	442	50	100	100.0	110333	PASS
443	442	15	24	19.5	21552	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037111.D
Acq On : 28 May 2025 16:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 28 17:56:34 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: BN037111.D\data.ms

(70) Pentachlorophenol (C)

16.657min (-0.009) 15873.72 ng

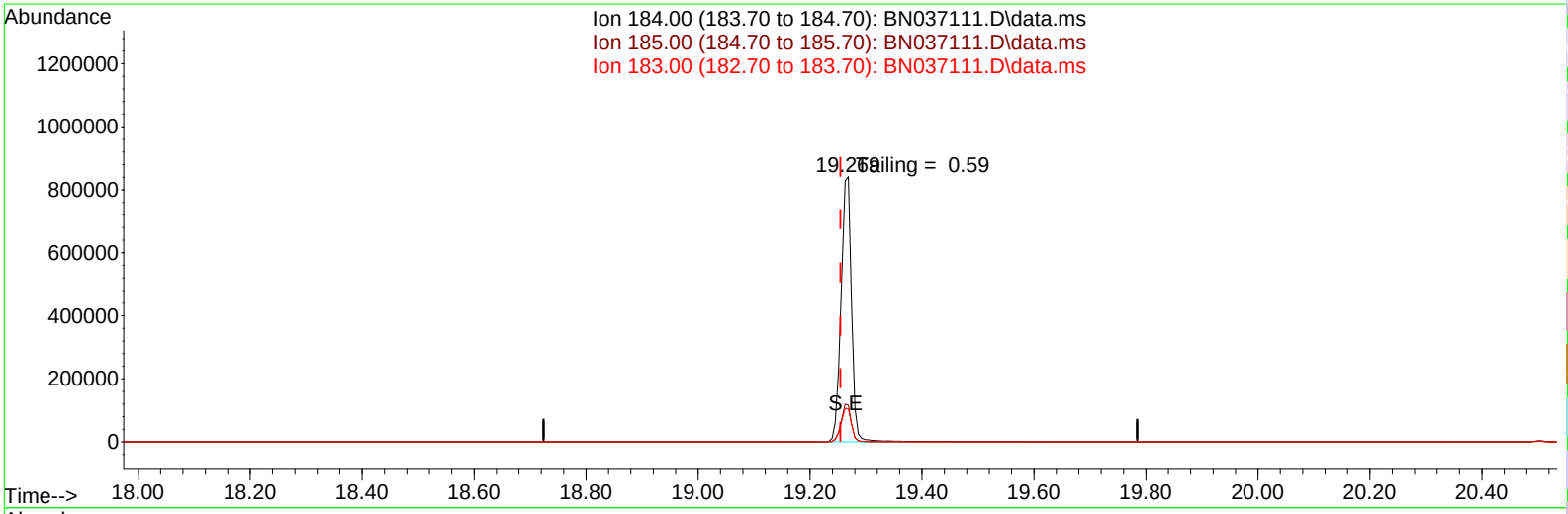
response 175025

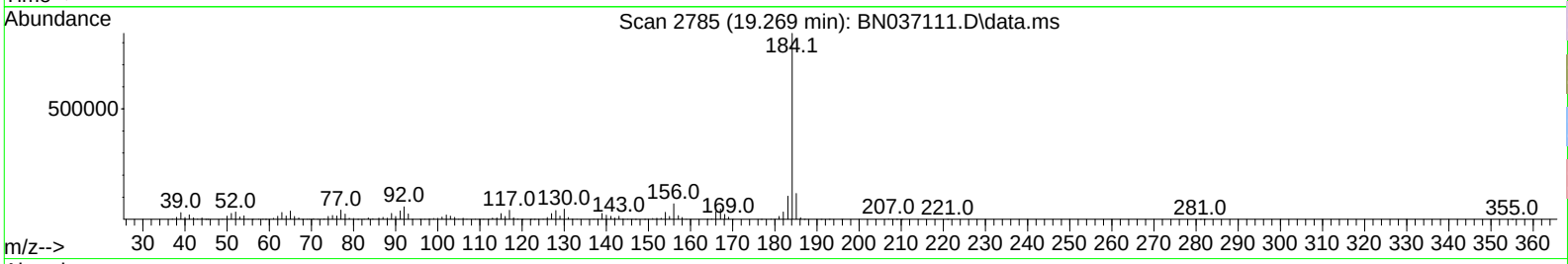
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.84
264.00	61.60	61.31
0.00	0.00	0.00

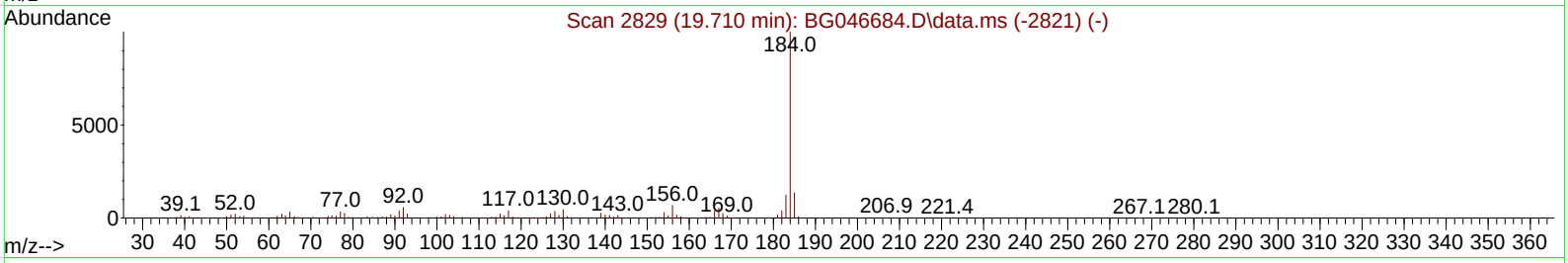
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037111.D
Acq On : 28 May 2025 16:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 28 17:56:34 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: BN037111.D\data.ms

(77) Benzidine

19.269min (+ 0.014) 0.00 ng

response 1102765

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.87
183.00	13.20	12.47
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
5/28/2025	BNA_N	BN037111.D
Compound Name	**Response**	**Retention Time**
DDT	606162	20.504
DDD	10956	20.063
DDE	462	19.557
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
11418	617580	1.85

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168100BL	SDG No.:	Q2082
Lab Sample ID:	PB168100BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037113.D	1	05/21/25 08:41	05/28/25 17:47	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1770	7.611				
1146-65-2	Naphthalene-d8	4400	10.394				
15067-26-2	Acenaphthene-d10	2350	14.256				
1517-22-2	Phenanthrene-d10	4150	17.009				
1719-03-5	Chrysene-d12	2590	21.198				
1520-96-3	Perylene-d12	2360	23.401				

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\BN052825\
Data File : BN037113.D
Acq On : 28 May 2025 17:47
Operator : RC/JU
Sample : PB168100BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Quant Time: May 28 18:13:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

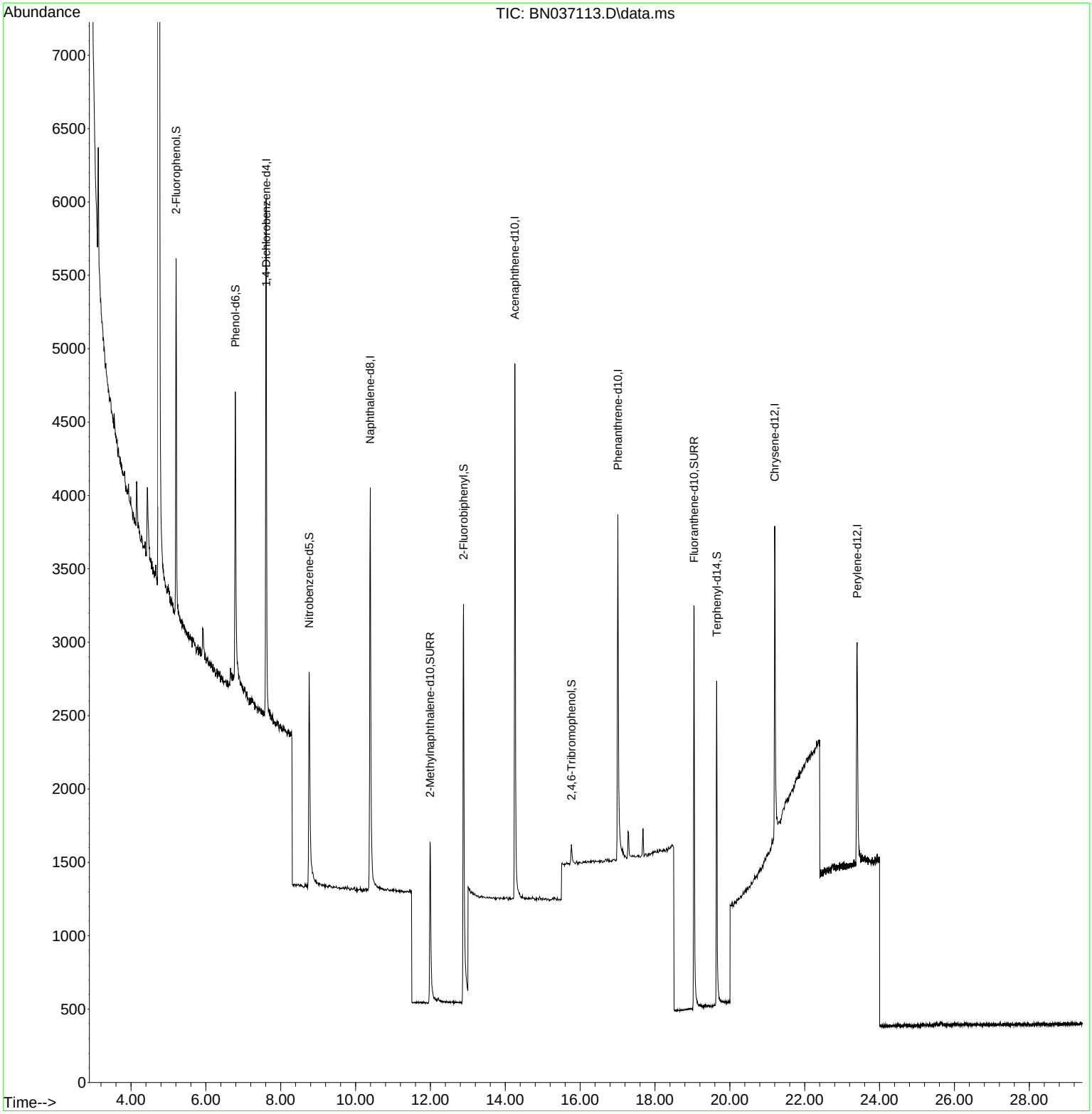
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1765	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4396	0.400	ng	#-0.01
13) Acenaphthene-d10	14.256	164	2346	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4153	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	2590	0.400	ng	0.00
35) Perylene-d12	23.401	264	2358	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1668	0.361	ng	0.00
5) Phenol-d6	6.788	99	1904	0.329	ng	0.00
8) Nitrobenzene-d5	8.760	82	1646	0.344	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	2217	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	104	0.101	ng	0.00
15) 2-Fluorobiphenyl	12.883	172	3806	0.354	ng	0.00
27) Fluoranthene-d10	19.045	212	3791	0.333	ng	0.00
31) Terphenyl-d14	19.649	244	2552	0.461	ng	0.00
Target Compounds						Qvalue

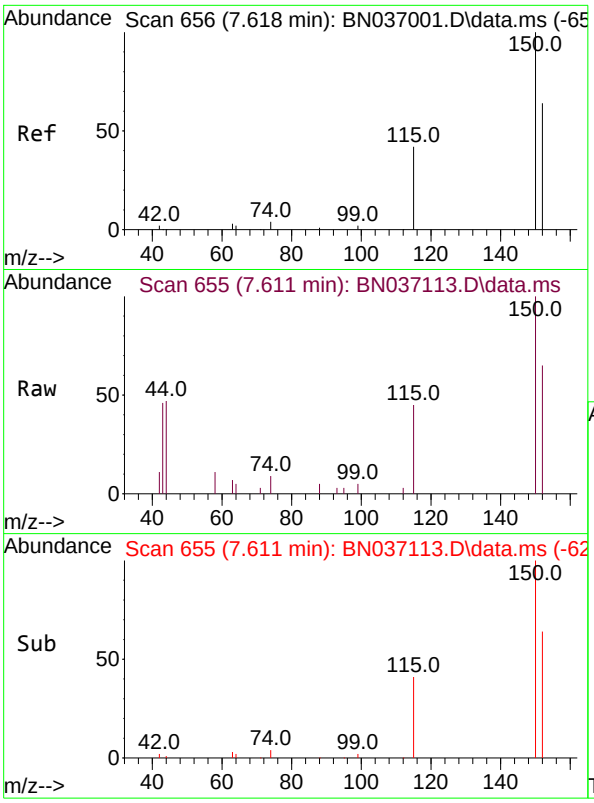
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037113.D
Acq On : 28 May 2025 17:47
Operator : RC/JU
Sample : PB168100BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Quant Time: May 28 18:13:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



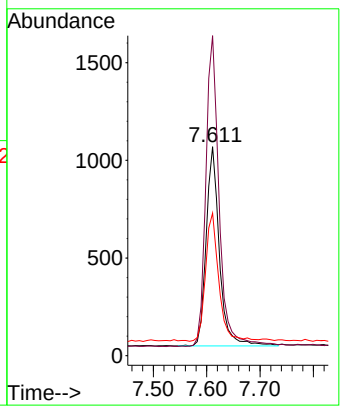


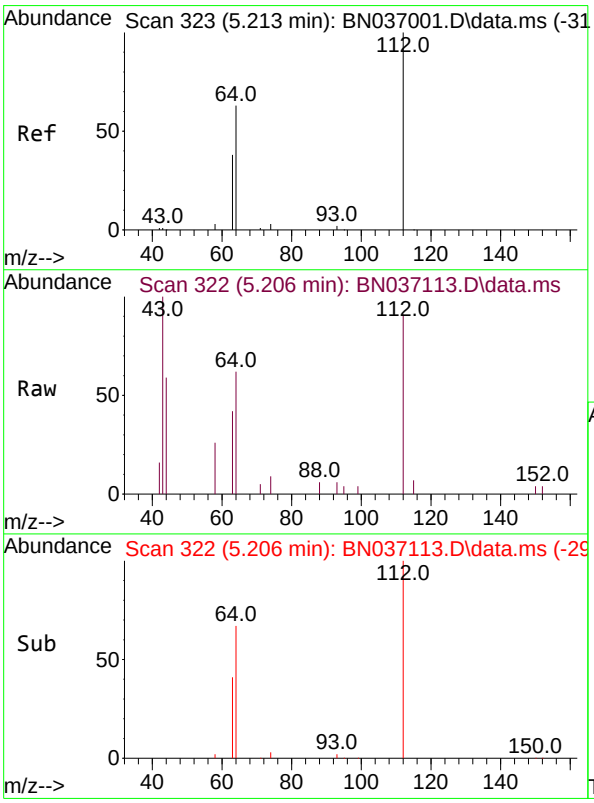
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Tgt Ion:152 Resp: 1765

Ion	Ratio	Lower	Upper
152	100		
150	153.1	123.9	185.9
115	68.2	55.8	83.8

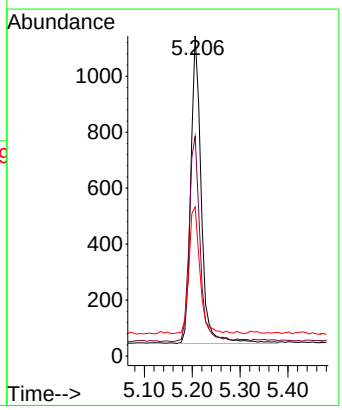


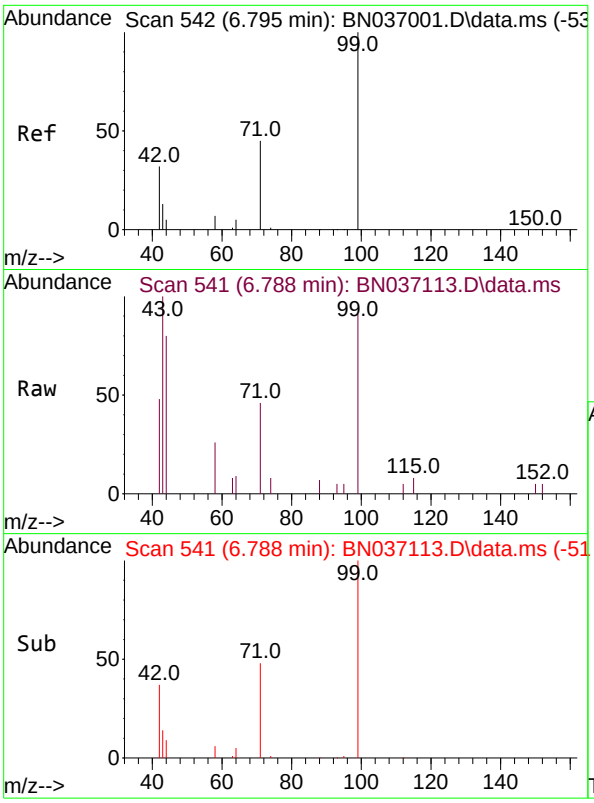


#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Tgt Ion:112 Resp: 1668

Ion	Ratio	Lower	Upper
112	100		
64	68.6	55.7	83.5
63	42.6	34.6	51.8



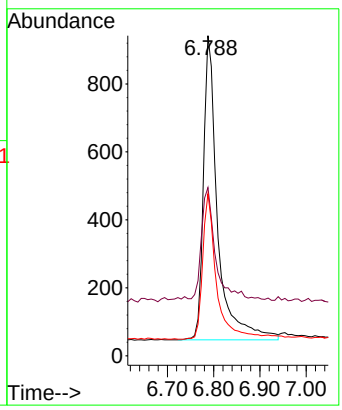


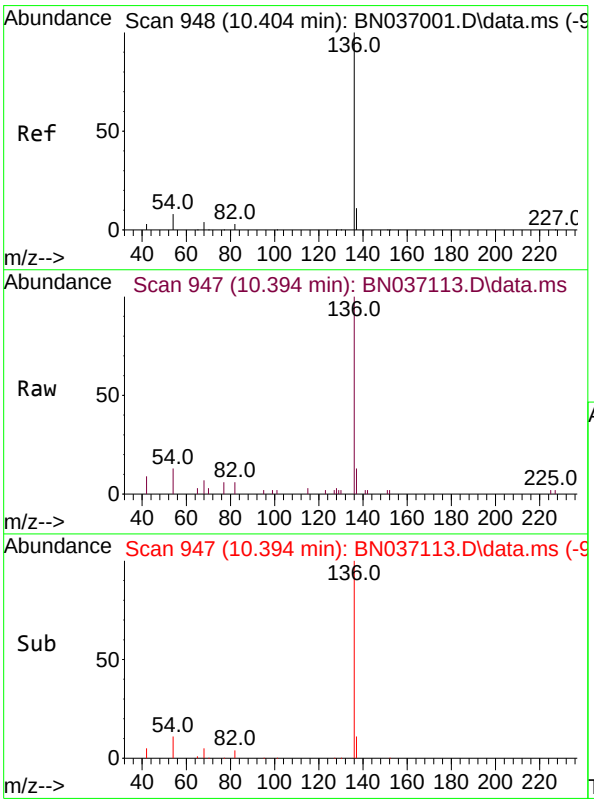
#5
Phenol-d6
Concen: 0.329 ng
RT: 6.788 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Tgt Ion: 99 Resp: 1904

Ion	Ratio	Lower	Upper
99	100		
42	37.3	29.3	43.9
71	46.2	35.7	53.5

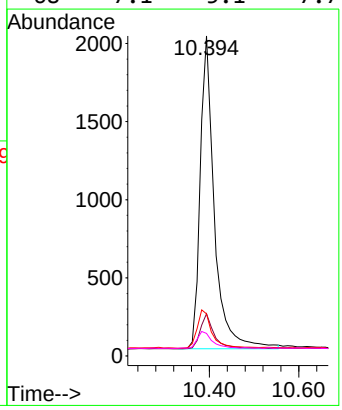


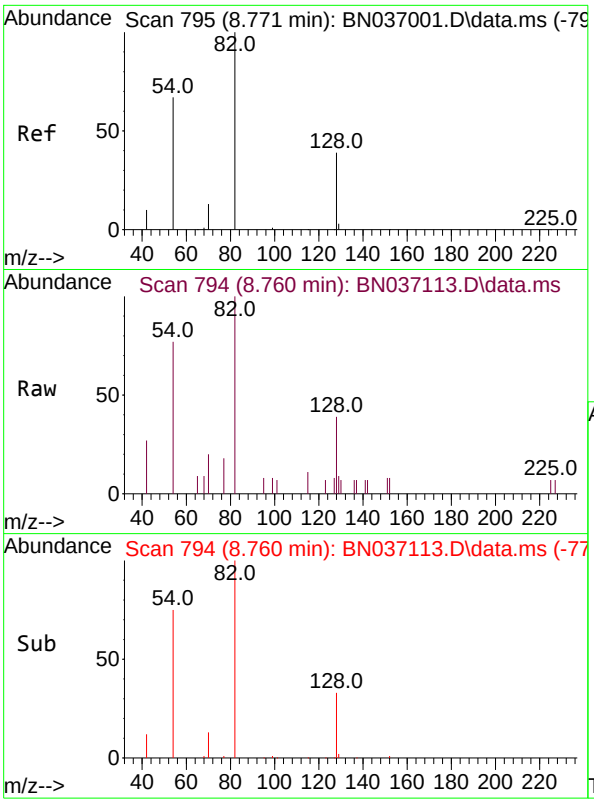


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Tgt Ion:136 Resp: 4396

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.4	15.6
54	13.2	8.5	12.7#
68	7.1	5.1	7.7



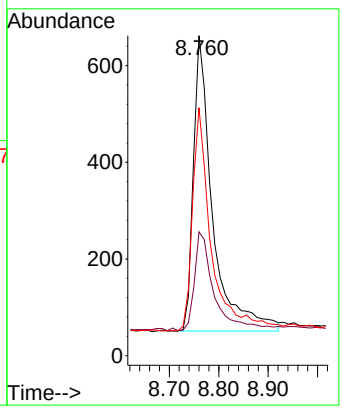


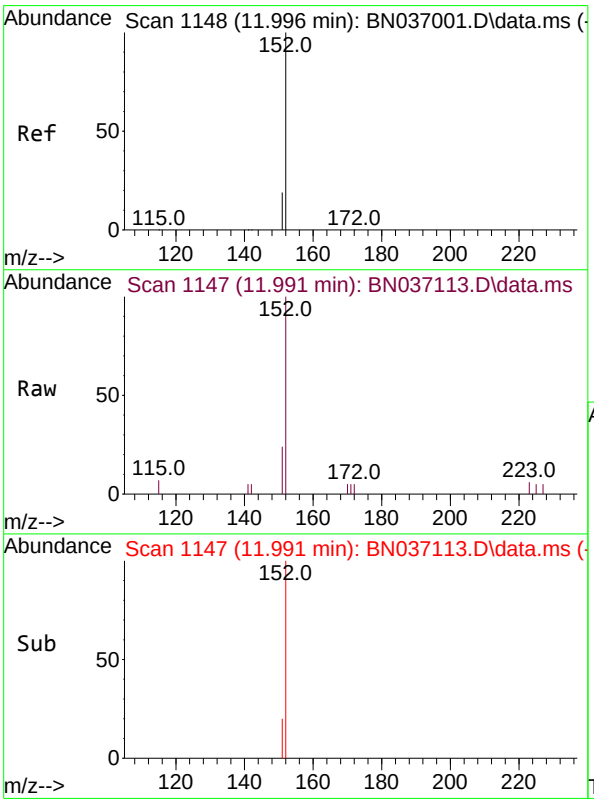
#8
Nitrobenzene-d5
Concen: 0.344 ng
RT: 8.760 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Tgt Ion: 82 Resp: 1646

Ion	Ratio	Lower	Upper
82	100		
128	38.7	34.0	51.0
54	77.5	55.0	82.4

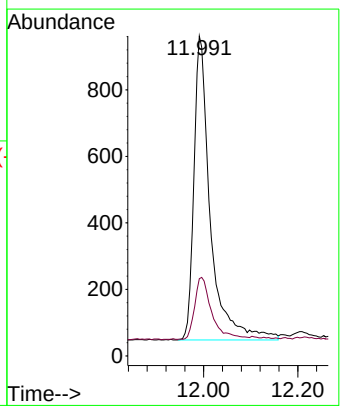


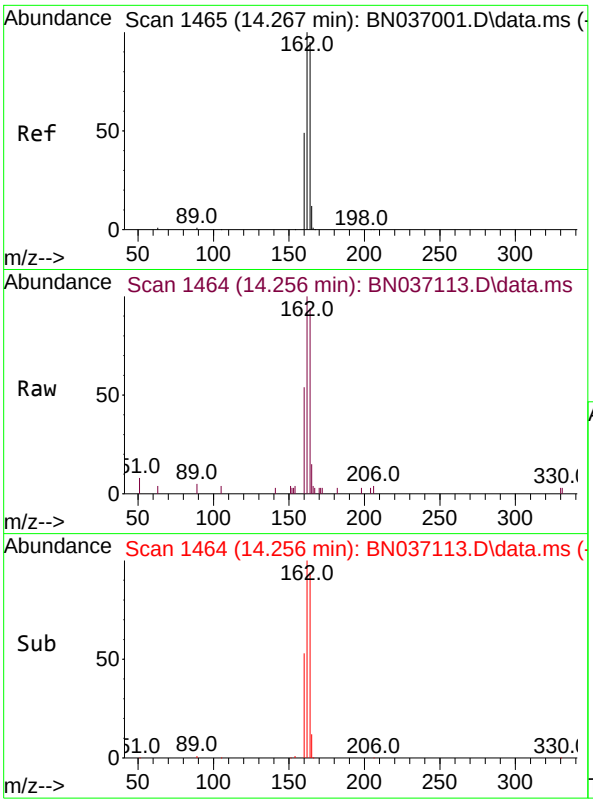


#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Tgt Ion:152 Resp: 2217

Ion	Ratio	Lower	Upper
152	100		
151	21.1	17.5	26.3



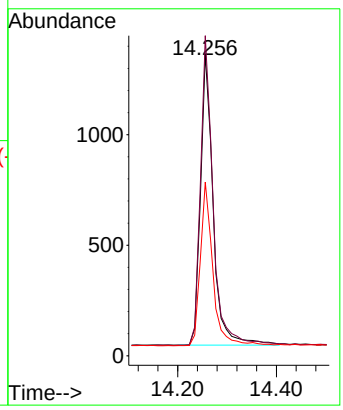


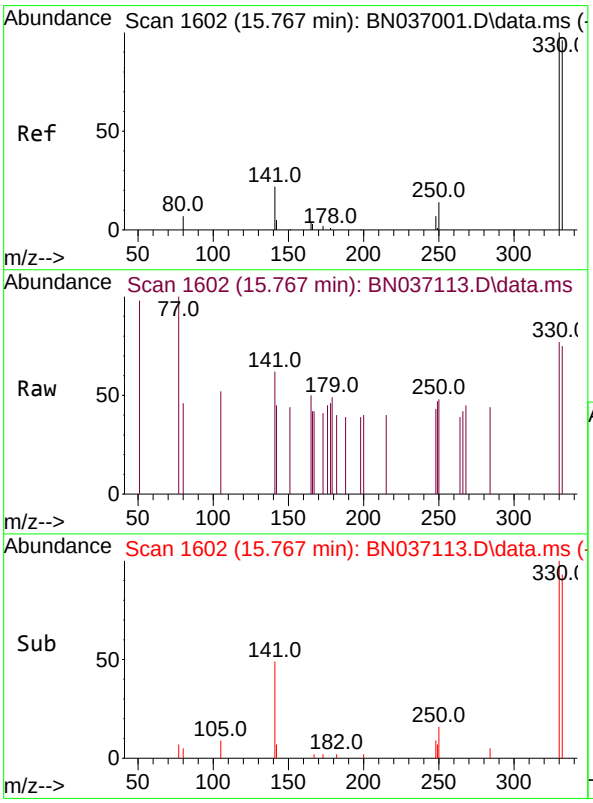
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Tgt Ion:164 Resp: 2346

Ion	Ratio	Lower	Upper
164	100		
162	106.2	84.2	126.4
160	57.6	42.6	63.8

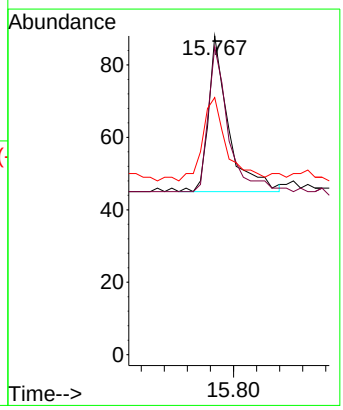


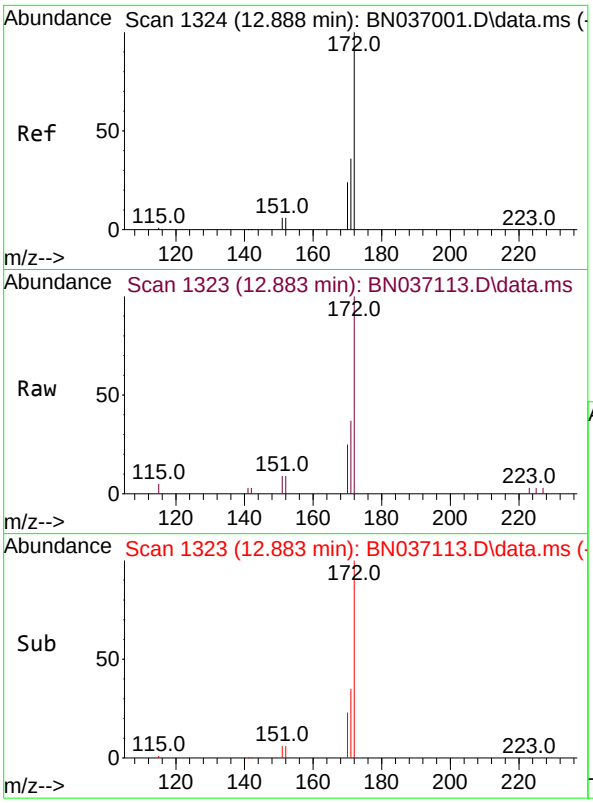


#14
2,4,6-Tribromophenol
Concen: 0.101 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Tgt Ion:330 Resp: 104

Ion	Ratio	Lower	Upper
330	100		
332	93.3	73.8	110.8
141	65.4	43.9	65.9



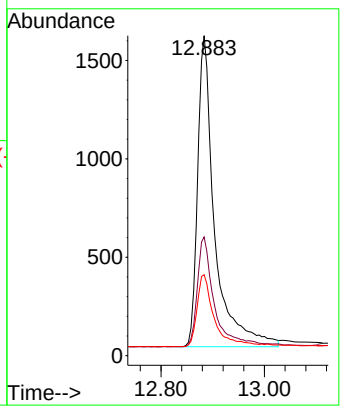


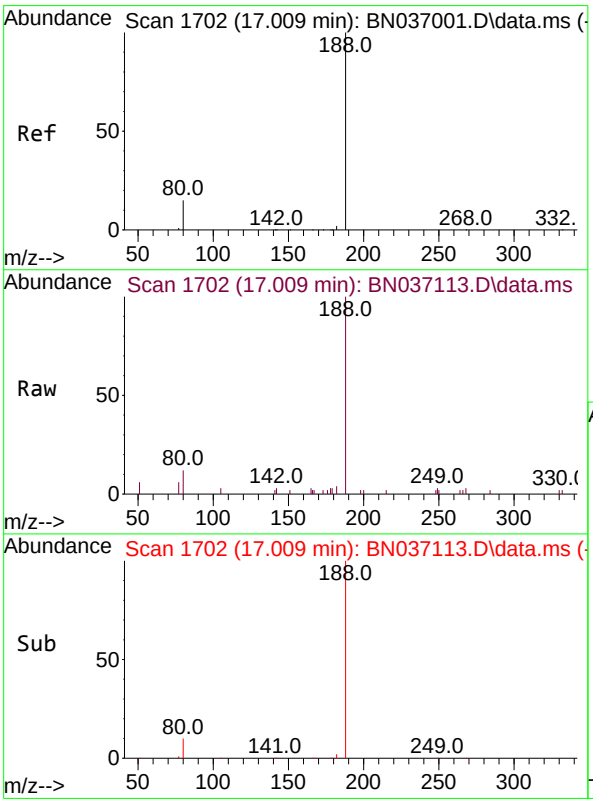
#15
2-Fluorobiphenyl
Concen: 0.354 ng
RT: 12.883 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Tgt Ion:172 Resp: 3806

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.2	43.8
170	25.3	20.5	30.7

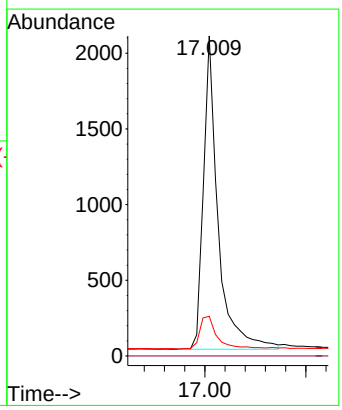


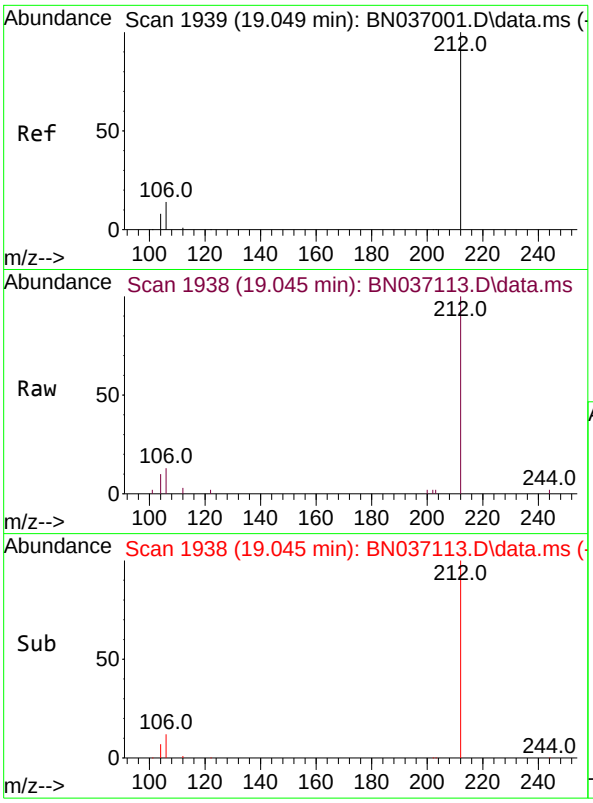


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Tgt Ion:188 Resp: 4153

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.4	13.4	20.0#



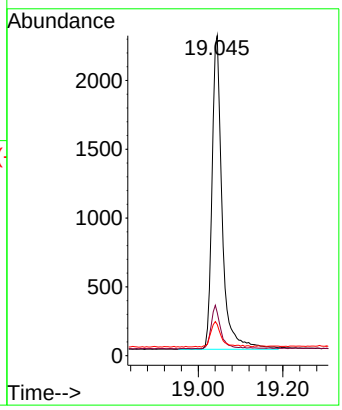


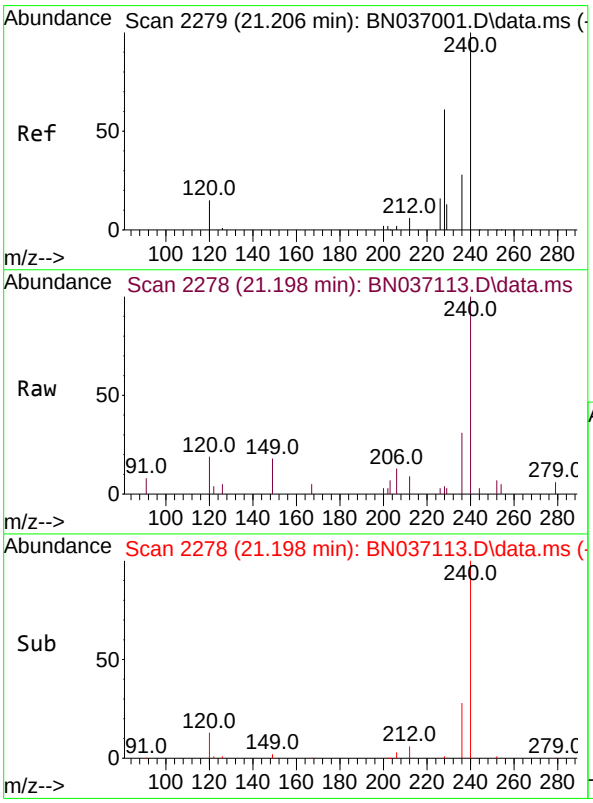
#27
Fluoranthene-d10
Concen: 0.333 ng
RT: 19.045 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Tgt Ion:212 Resp: 3791

Ion	Ratio	Lower	Upper
212	100		
106	13.0	11.3	16.9
104	8.3	6.7	10.1

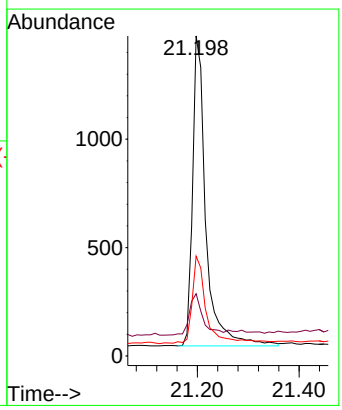


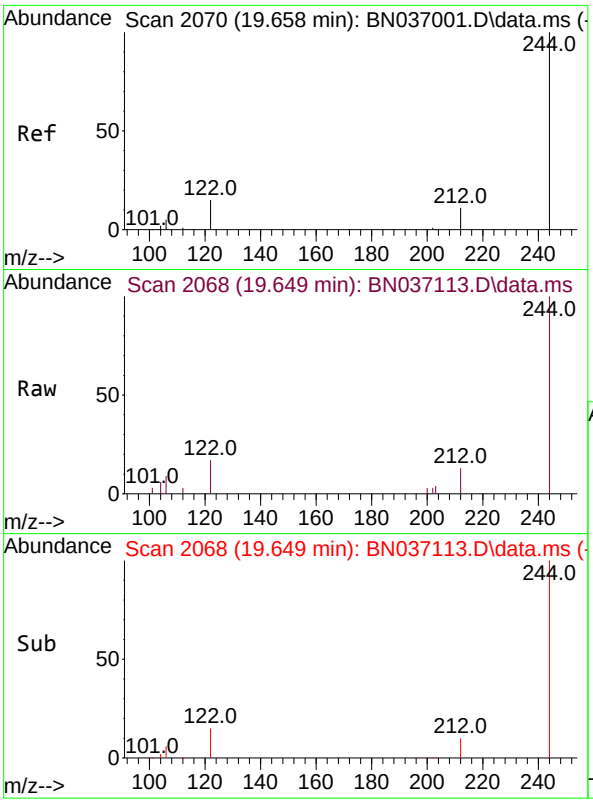


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Tgt Ion:240 Resp: 2590

Ion	Ratio	Lower	Upper
240	100		
120	19.4	15.1	22.7
236	31.2	24.0	36.0



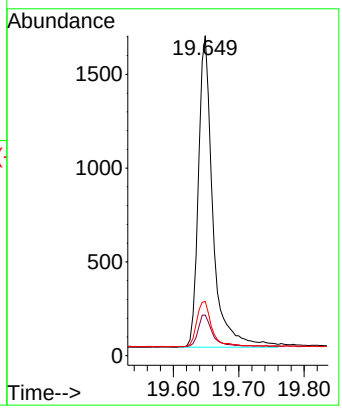


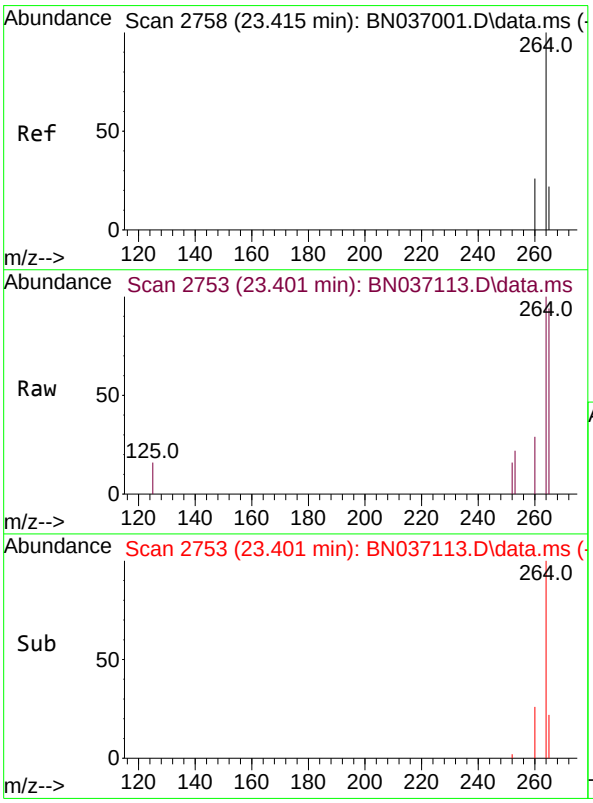
#31
Terphenyl-d14
Concen: 0.461 ng
RT: 19.649 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Instrument :
BNA_N
ClientSampleId :
PB168100BL

Tgt Ion:244 Resp: 2552

Ion	Ratio	Lower	Upper
244	100		
212	12.7	9.7	14.5
122	16.9	13.4	20.0

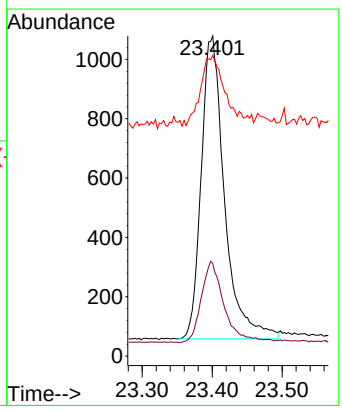




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.401 min Scan# 2753
Delta R.T. -0.015 min
Lab File: BN037113.D
Acq: 28 May 2025 17:47

Tgt Ion:264 Resp: 2358

Ion	Ratio	Lower	Upper
264	100		
260	28.9	21.9	32.9
265	93.9	51.6	77.4#



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168100BS	SDG No.:	Q2082
Lab Sample ID:	PB168100BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037124.D	1	05/21/25 08:41	05/29/25 00:23	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.28		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		69%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		92%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2480	7.611				
1146-65-2	Naphthalene-d8	6250	10.383				
15067-26-2	Acenaphthene-d10	2970	14.256				
1517-22-2	Phenanthrene-d10	4820	17.009				
1719-03-5	Chrysene-d12	3070	21.198				
1520-96-3	Perylene-d12	3110	23.395				

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\BN052825\
Data File : BN037124.D
Acq On : 29 May 2025 00:23
Operator : RC/JU
Sample : PB168100BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 29 01:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2482	0.400	ng	0.00
7) Naphthalene-d8	10.383	136	6249	0.400	ng	#-0.02
13) Acenaphthene-d10	14.256	164	2970	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4819	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3074	0.400	ng	0.00
35) Perylene-d12	23.395	264	3112	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	2242	0.345	ng	0.00
5) Phenol-d6	6.788	99	2593	0.319	ng	0.00
8) Nitrobenzene-d5	8.760	82	2259	0.332	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	3317m	0.377	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	326	0.250	ng	-0.01
15) 2-Fluorobiphenyl	12.873	172	4707	0.346	ng	-0.02
27) Fluoranthene-d10	19.040	212	3641	0.276	ng	0.00
31) Terphenyl-d14	19.649	244	2422	0.368	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.133	88	861	0.283	ng	# 36
3) n-Nitrosodimethylamine	3.444	42	2136	0.326	ng	# 90
6) bis(2-Chloroethyl)ether	7.041	93	2451	0.327	ng	99
9) Naphthalene	10.436	128	6160	0.334	ng	98
10) Hexachlorobutadiene	10.725	225	1373	0.354	ng	# 99
12) 2-Methylnaphthalene	12.062	142	3449	0.290	ng	98
16) Acenaphthylene	13.967	152	5388	0.373	ng	100
17) Acenaphthene	14.320	154	3199	0.339	ng	100
18) Fluorene	15.304	166	3917	0.316	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	334	0.363	ng	91
21) 4-Bromophenyl-phenylether	16.202	248	1107	0.364	ng	96
22) Hexachlorobenzene	16.314	284	1238	0.380	ng	99
23) Atrazine	16.475	200	861	0.324	ng	95
24) Pentachlorophenol	16.661	266	517	0.288	ng	97
25) Phenanthrene	17.046	178	5320	0.338	ng	99
26) Anthracene	17.133	178	4823	0.337	ng	99
28) Fluoranthene	19.068	202	4934	0.262	ng	98
30) Pyrene	19.430	202	4842	0.368	ng	99
32) Benzo(a)anthracene	21.180	228	3881	0.335	ng	98
33) Chrysene	21.233	228	4404	0.360	ng	98
34) Bis(2-ethylhexyl)phtha...	21.126	149	2227	0.313	ng	99
36) Indeno(1,2,3-cd)pyrene	25.599	276	4982	0.392	ng	99
37) Benzo(b)fluoranthene	22.737	252	4085	0.316	ng	95
38) Benzo(k)fluoranthene	22.781	252	4383m	0.344	ng	
39) Benzo(a)pyrene	23.298	252	3942	0.360	ng	93
40) Dibenzo(a,h)anthracene	25.614	278	3842	0.388	ng	97
41) Benzo(g,h,i)perylene	26.272	276	4293	0.399	ng	98

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

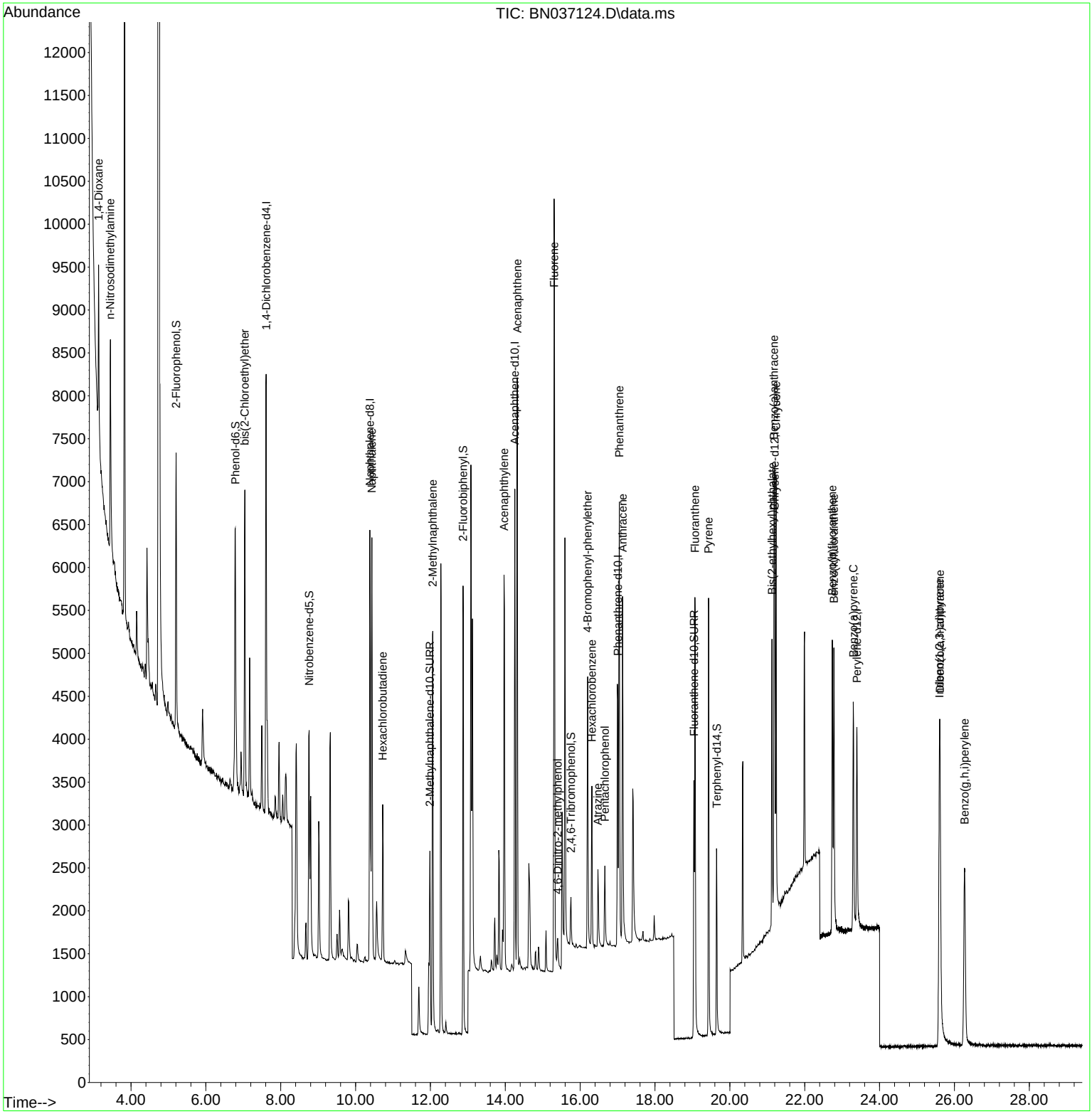
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Data File : BN037124.D
Acq On : 29 May 2025 00:23
Operator : RC/JU
Sample : PB168100BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

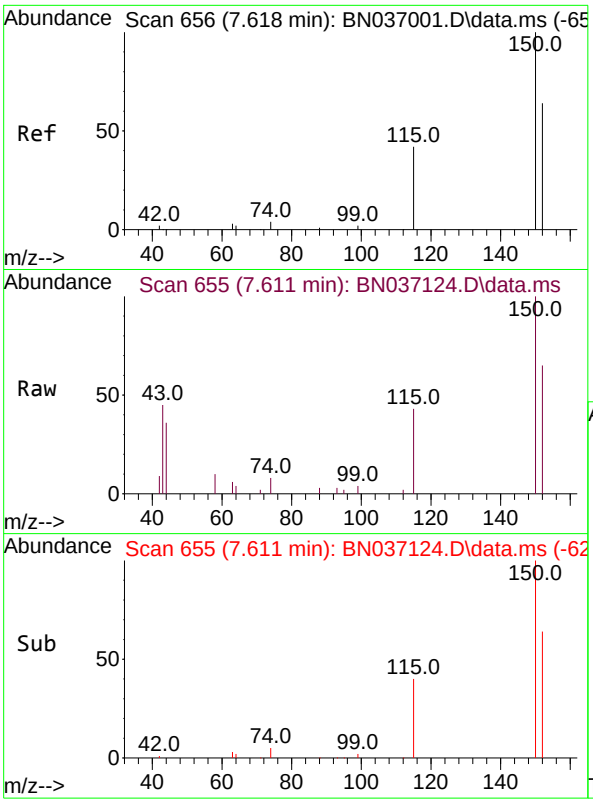
Quant Time: May 29 01:34:24 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations APPROVED

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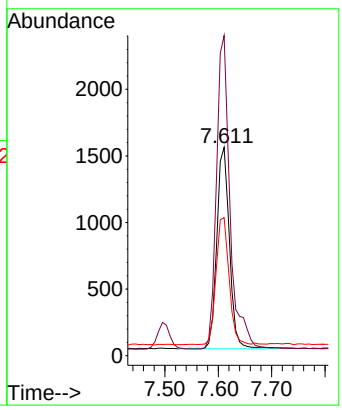




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:152 Resp: 248

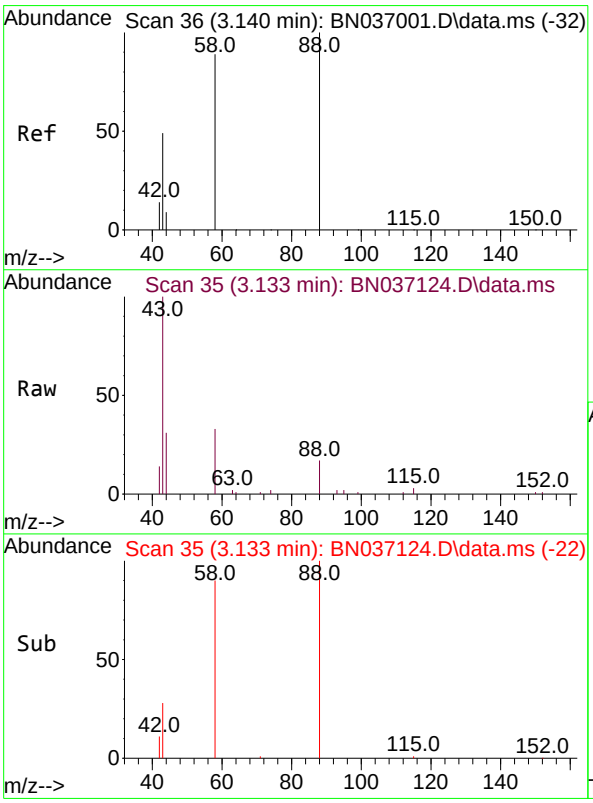
Ion	Ratio	Lower	Upper
152	100		
150	153.6	123.9	185.9
115	66.3	55.8	83.8



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
APPROVED

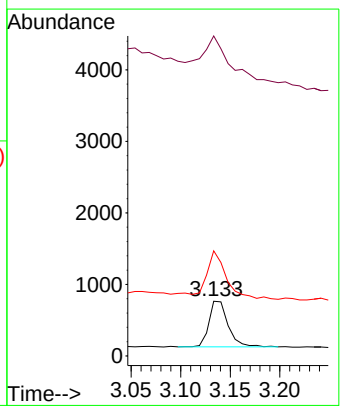
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

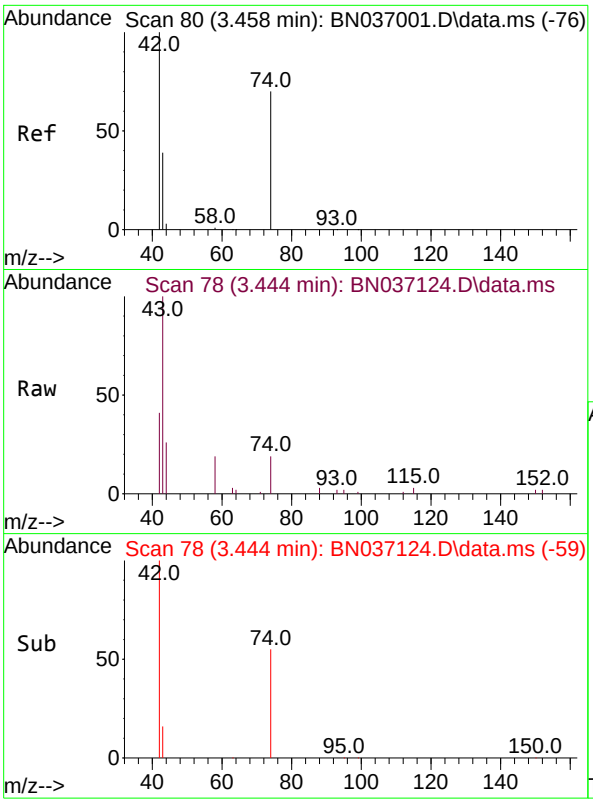


#2
1,4-Dioxane
Concen: 0.283 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion: 88 Resp: 861

Ion	Ratio	Lower	Upper
88	100		
43	139.5	37.4	56.0#
58	107.2	68.8	103.2#

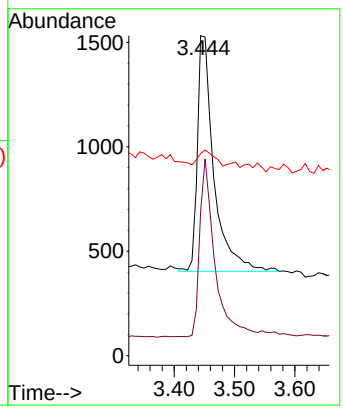




#3
n-Nitrosodimethylamine
Concen: 0.326 ng
RT: 3.444 min Scan# 7
Delta R.T. -0.014 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion: 42 Resp: 213

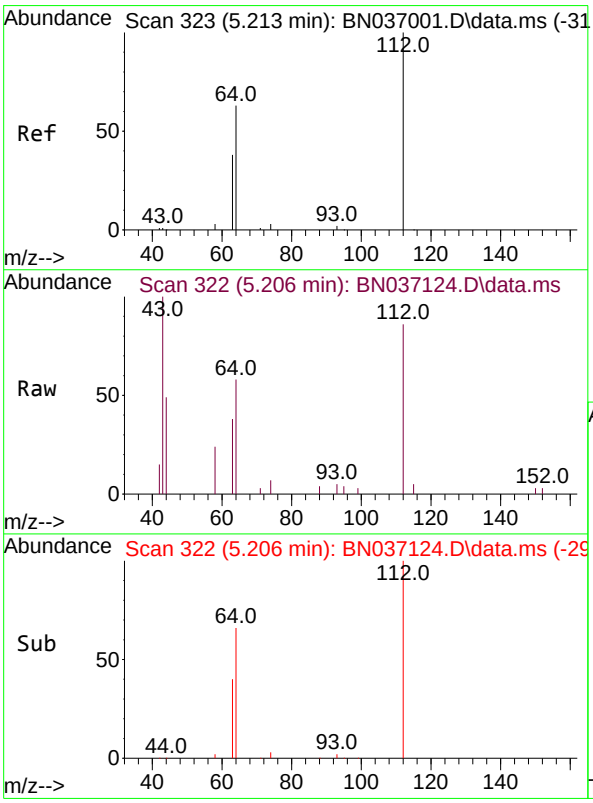
Ion	Ratio	Lower	Upper
42	100		
74	68.2	59.8	89.6
44	5.3	11.9	17.9



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
APPROVED

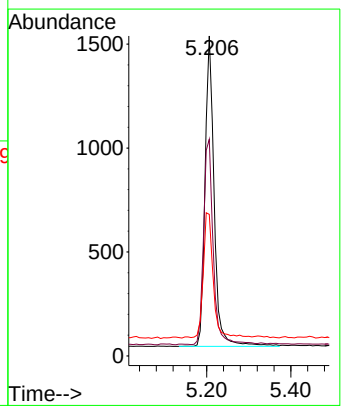
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

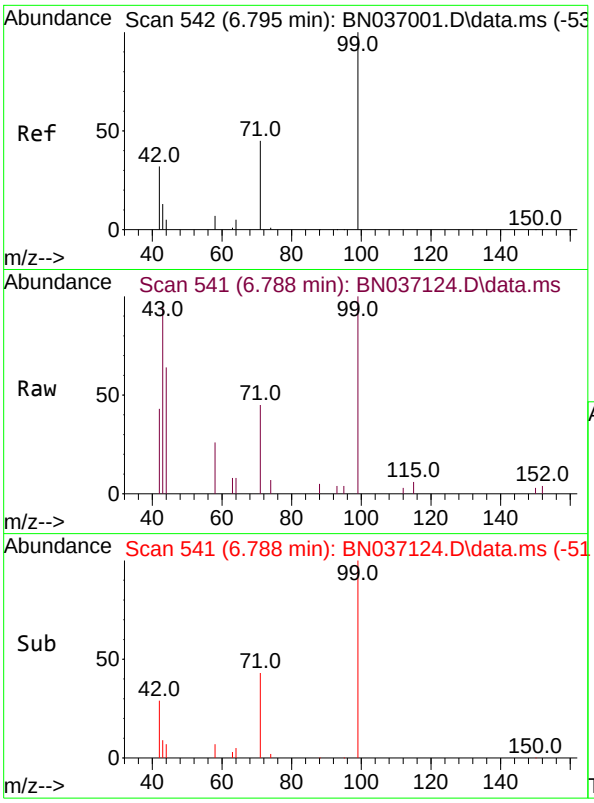


#4
2-Fluorophenol
Concen: 0.345 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:112 Resp: 2242

Ion	Ratio	Lower	Upper
112	100		
64	69.8	55.7	83.5
63	44.5	34.6	51.8

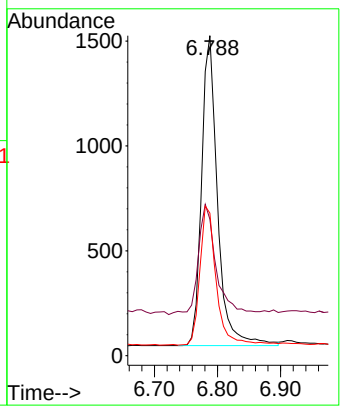




#5
Phenol-d6
Concen: 0.319 ng
RT: 6.788 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion: 99 Resp: 259

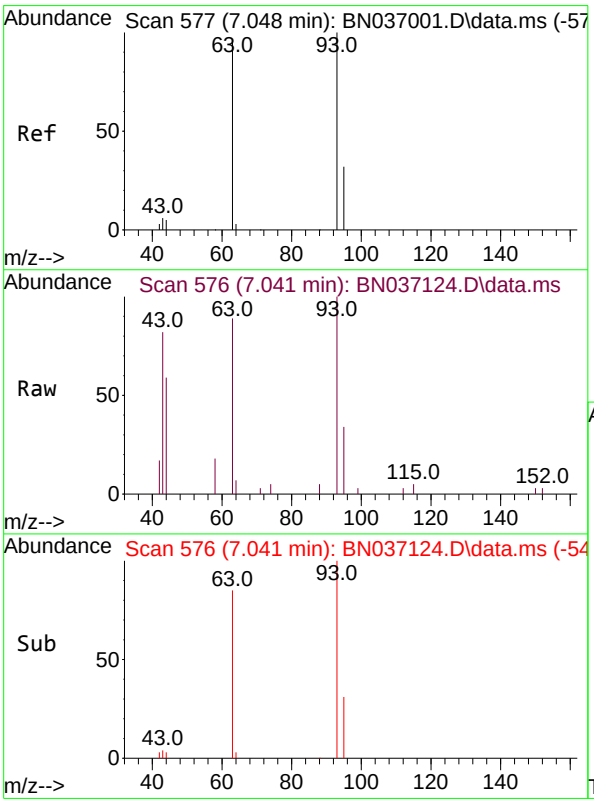
Ion	Ratio	Lower	Upper
99	100		
42	39.8	29.3	43.9
71	46.2	35.7	53.5



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
APPROVED

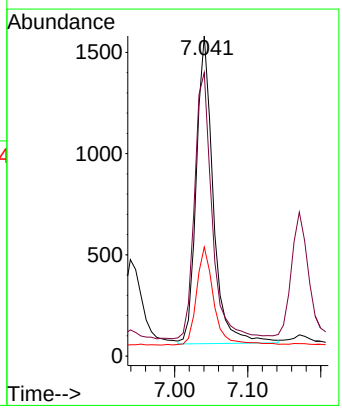
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

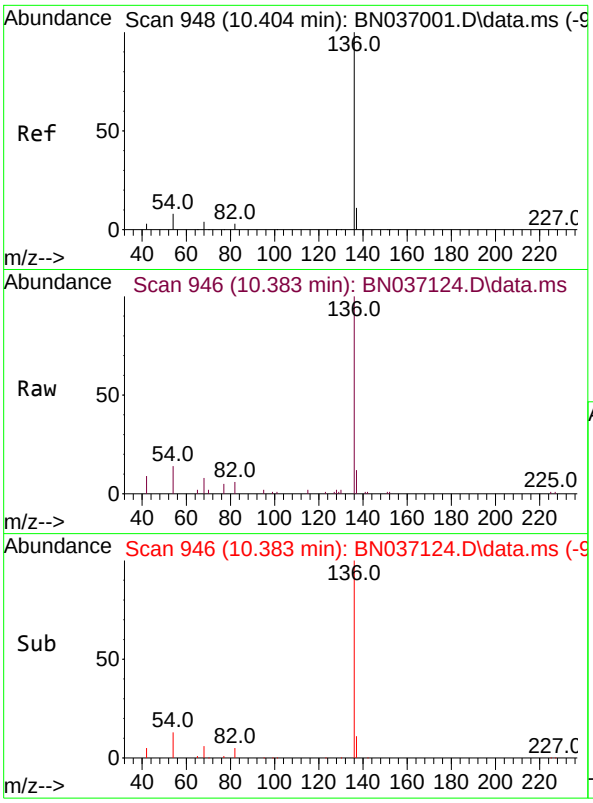


#6
bis(2-Chloroethyl)ether
Concen: 0.327 ng
RT: 7.041 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion: 93 Resp: 2451

Ion	Ratio	Lower	Upper
93	100		
63	88.7	70.1	105.1
95	32.7	26.2	39.2

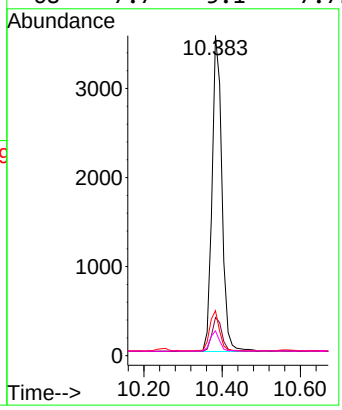




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:136 Resp: 624

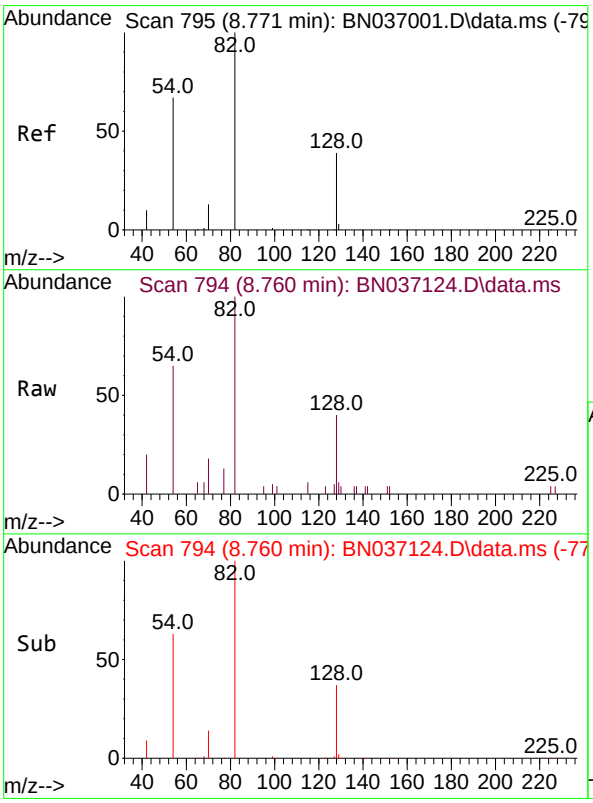
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.4	15.6
54	14.0	8.5	12.7#
68	7.7	5.1	7.7#



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations APPROVED

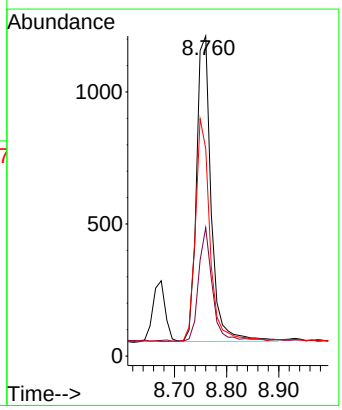
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

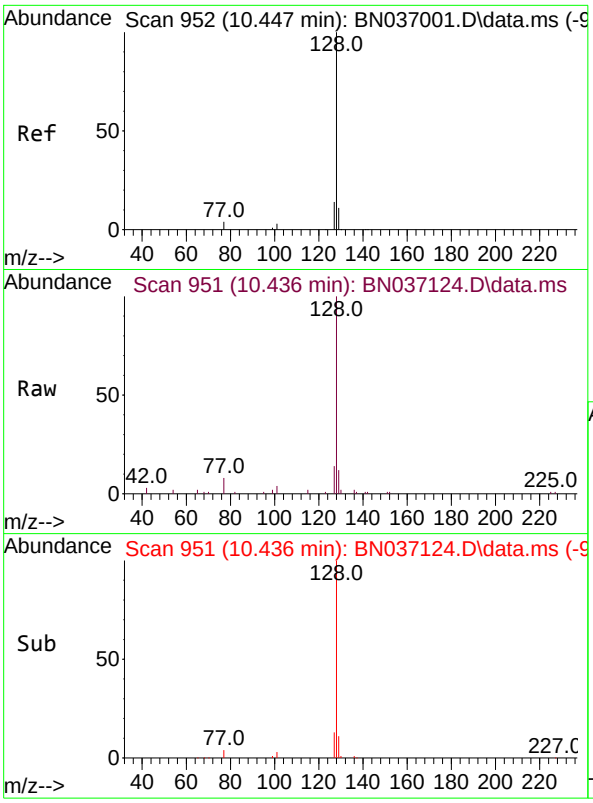


#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion: 82 Resp: 2259

Ion	Ratio	Lower	Upper
82	100		
128	40.1	34.0	51.0
54	64.9	55.0	82.4

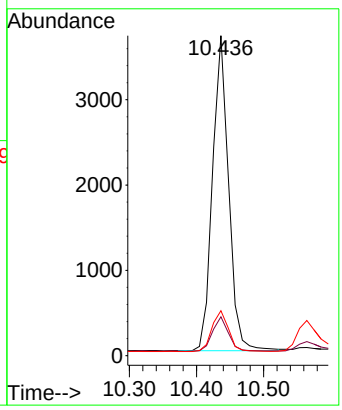




#9
Naphthalene
Concen: 0.334 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:128 Resp: 616

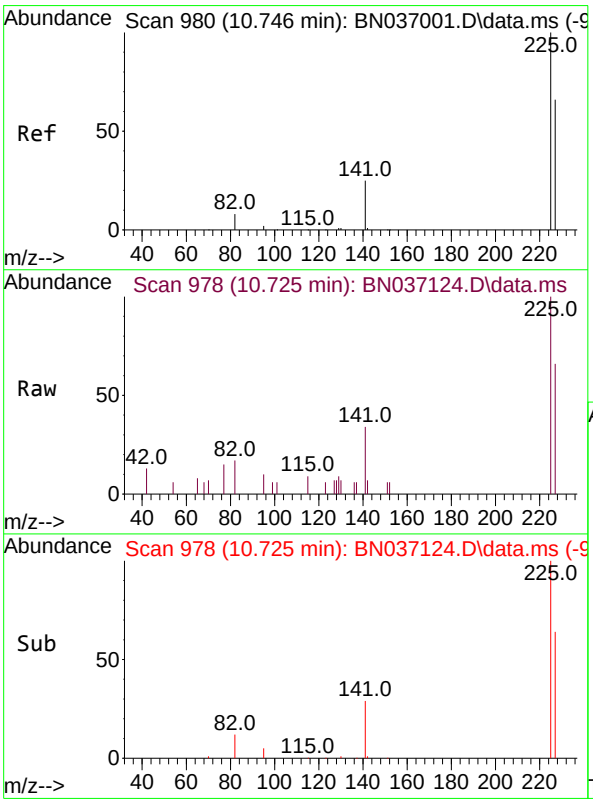
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.7	14.5
127	14.0	12.4	18.6



Instrument :
BNA_N
ClientSampleId :
PB168100BS

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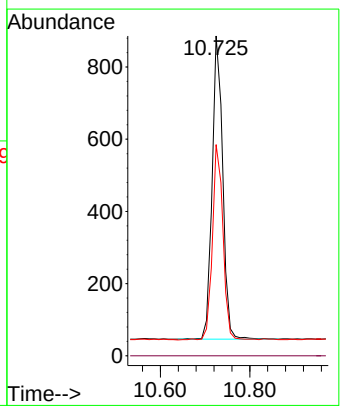
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

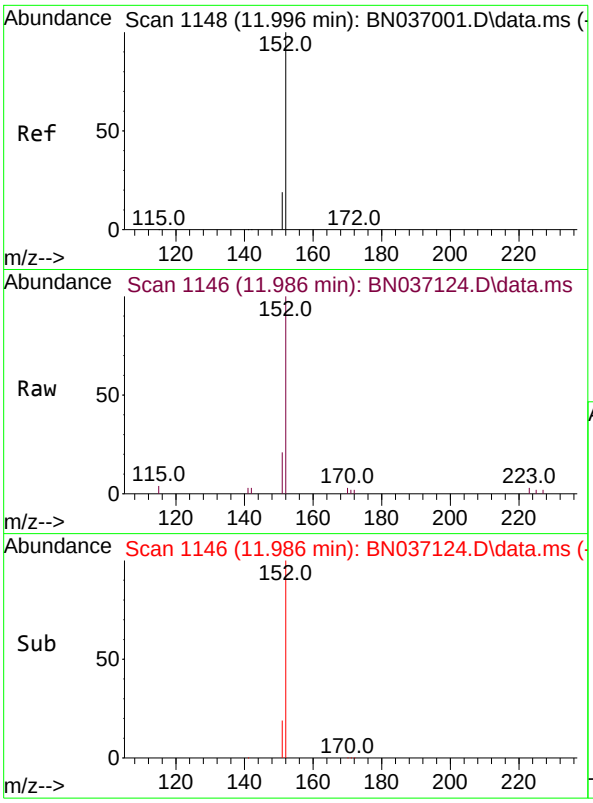


#10
Hexachlorobutadiene
Concen: 0.354 ng
RT: 10.725 min Scan# 978
Delta R.T. -0.021 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:225 Resp: 1373

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	50.9	76.3





#11
2-Methylnaphthalene-d10
Concen: 0.377 ng m
RT: 11.986 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

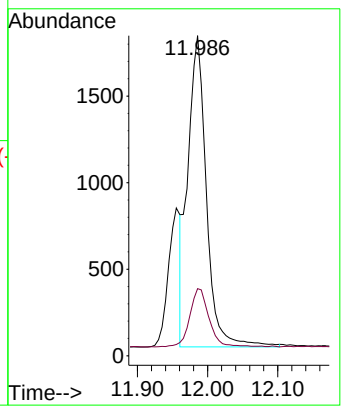
Tgt Ion:152 Resp: 331

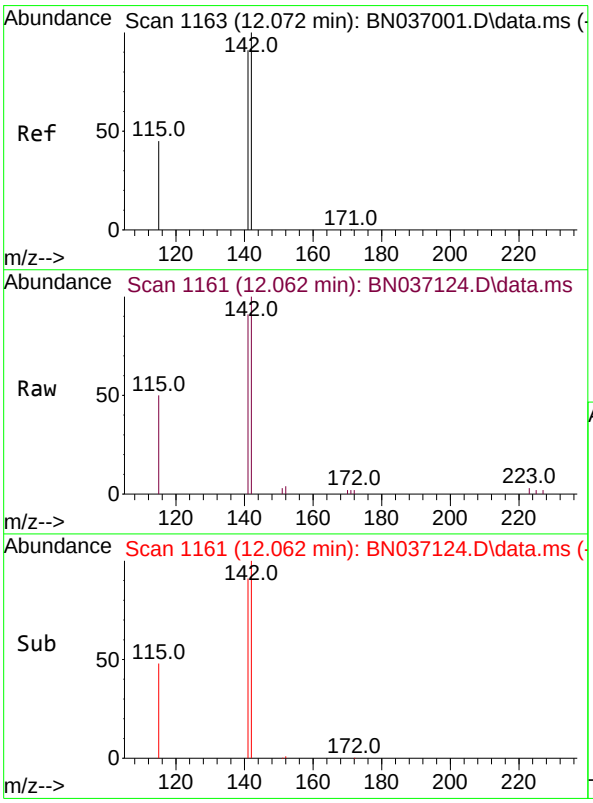
Ion	Ratio	Lower	Upper
152	100		
151	19.8	17.5	26.3

Instrument :
BNA_N
ClientSampleId :
PB168100BS

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Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

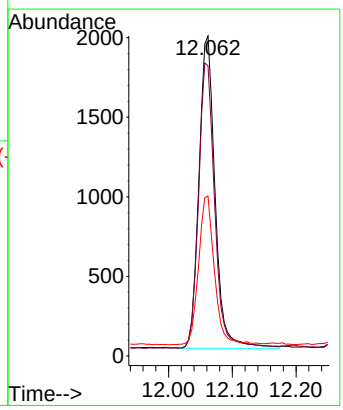


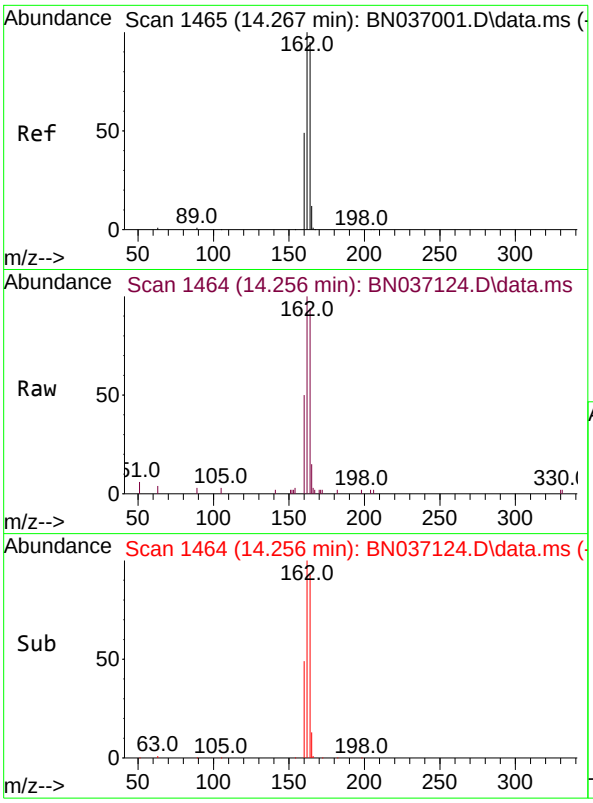


#12
2-Methylnaphthalene
Concen: 0.290 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:142 Resp: 3449

Ion	Ratio	Lower	Upper
142	100		
141	90.7	73.3	109.9
115	50.0	38.4	57.6

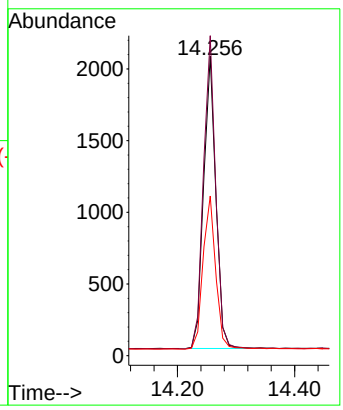




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:164 Resp: 297

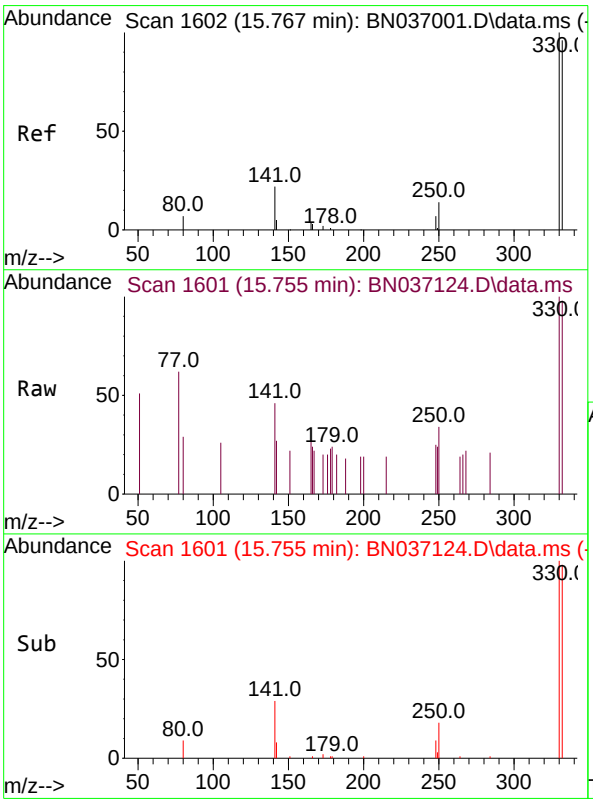
Ion	Ratio	Lower	Upper
164	100		
162	106.8	84.2	126.4
160	53.3	42.6	63.8



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
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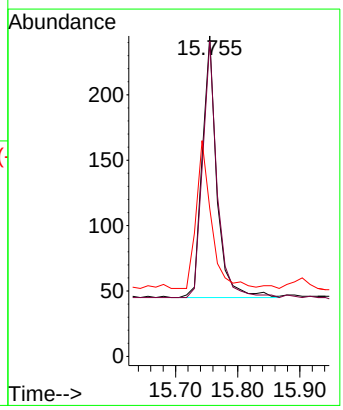
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

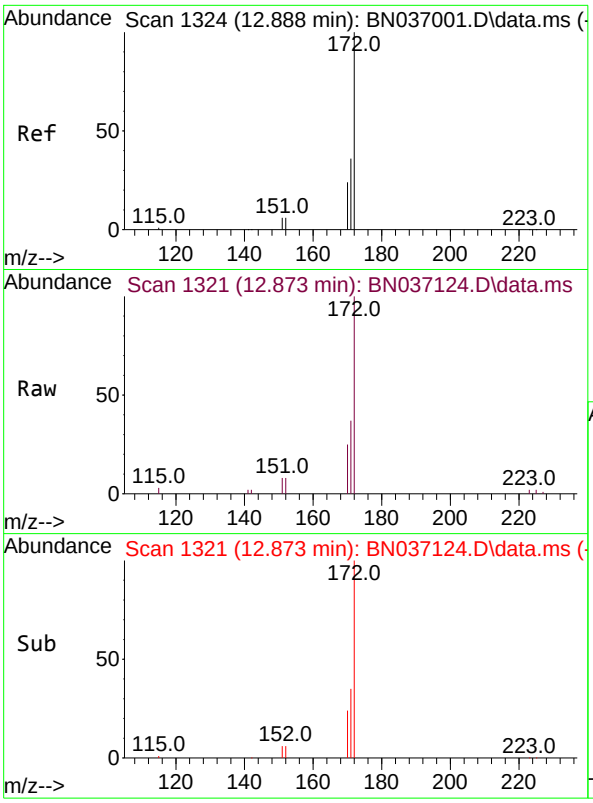


#14
2,4,6-Tribromophenol
Concen: 0.250 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:330 Resp: 326

Ion	Ratio	Lower	Upper
330	100		
332	97.2	73.8	110.8
141	58.3	43.9	65.9

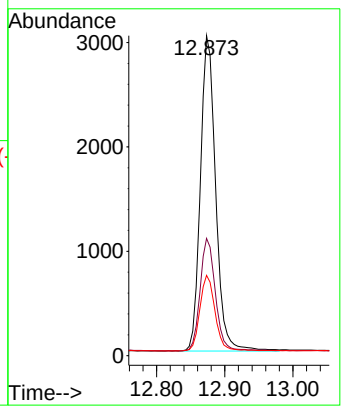




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.873 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:172 Resp: 470

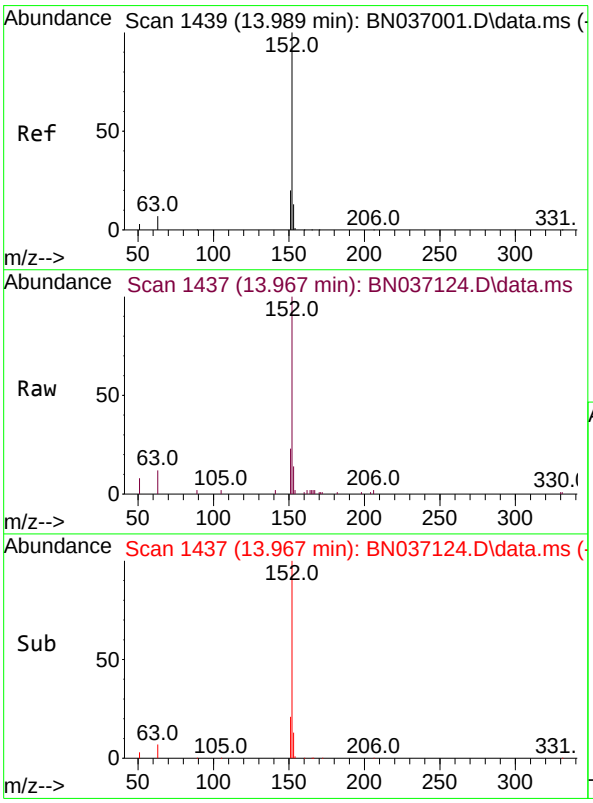
Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.2	43.8
170	25.1	20.5	30.7



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations APPROVED

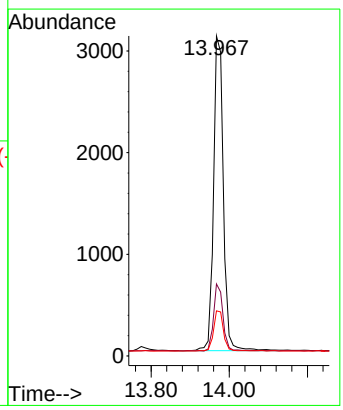
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

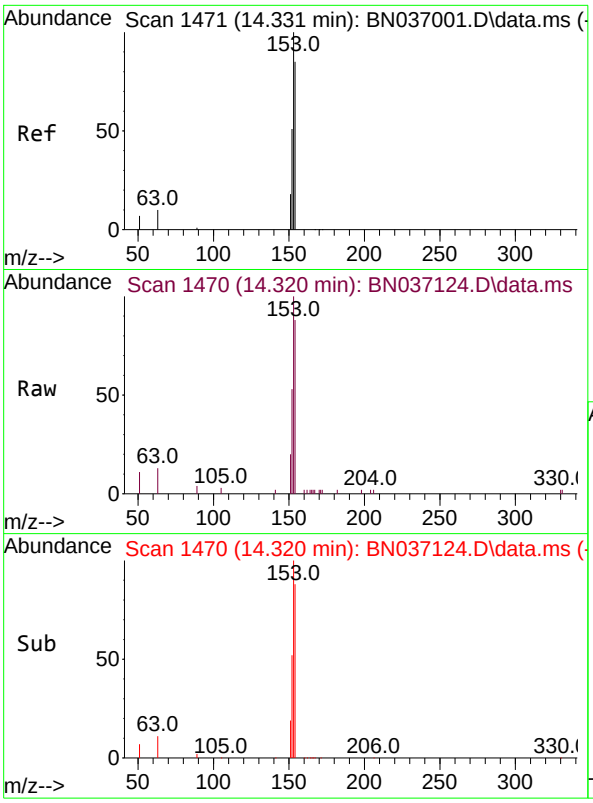


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:152 Resp: 5388

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	12.9	10.5	15.7

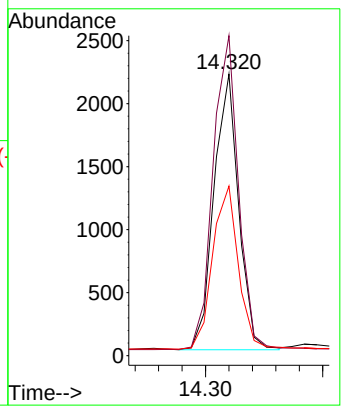




#17
Acenaphthene
Concen: 0.339 ng
RT: 14.320 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:154 Resp: 3199

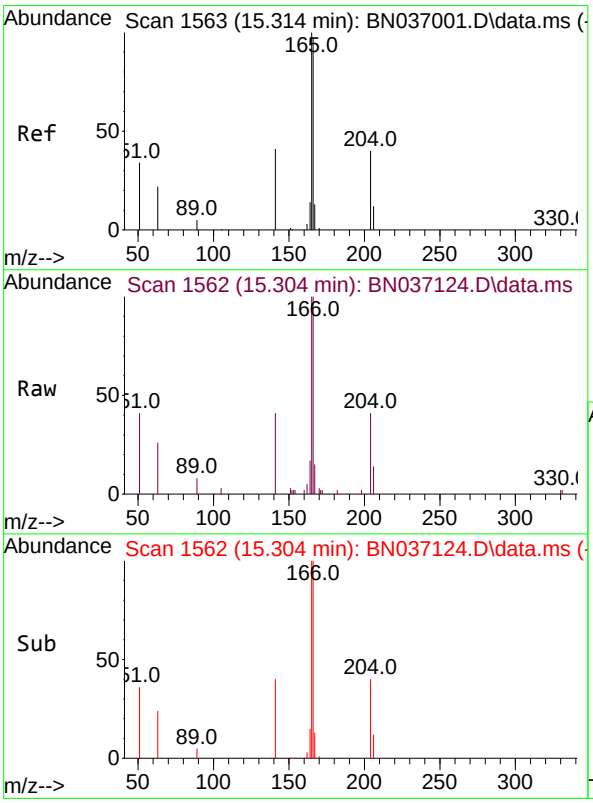
Ion	Ratio	Lower	Upper
154	100		
153	117.4	94.2	141.4
152	61.6	49.4	74.0



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations APPROVED

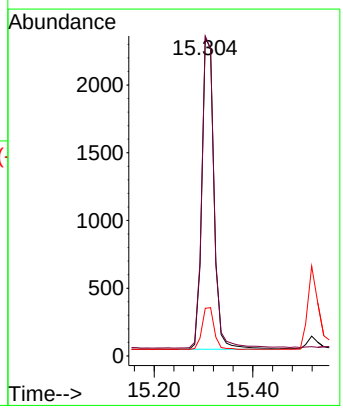
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

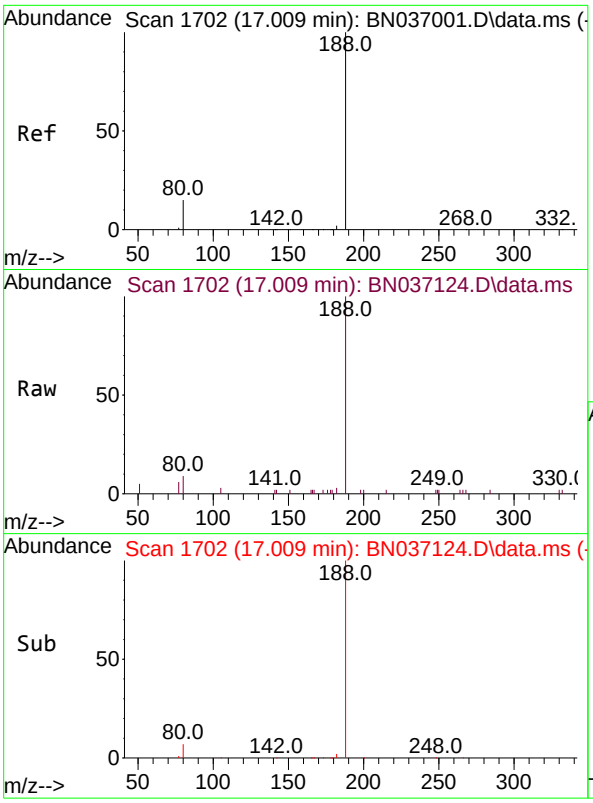


#18
Fluorene
Concen: 0.316 ng
RT: 15.304 min Scan# 1562
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:166 Resp: 3917

Ion	Ratio	Lower	Upper
166	100		
165	100.5	80.6	120.8
167	13.5	10.6	16.0

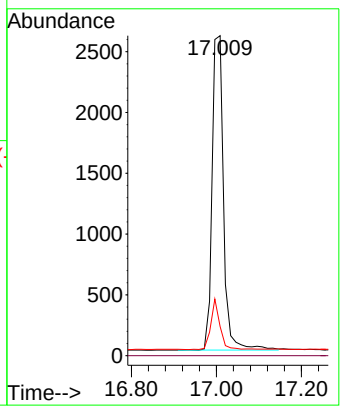




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:188 Resp: 481

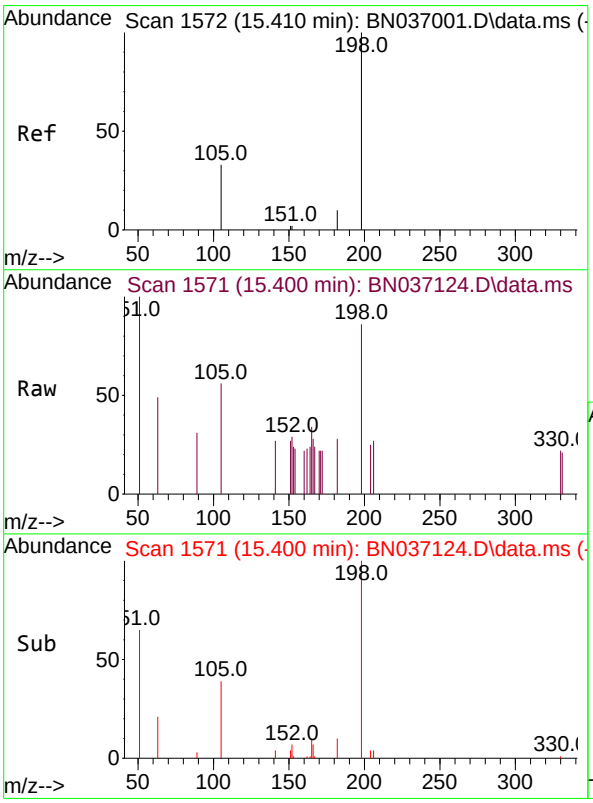
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.1	13.4	20.0#



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
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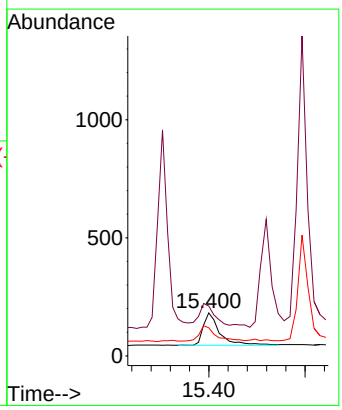
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

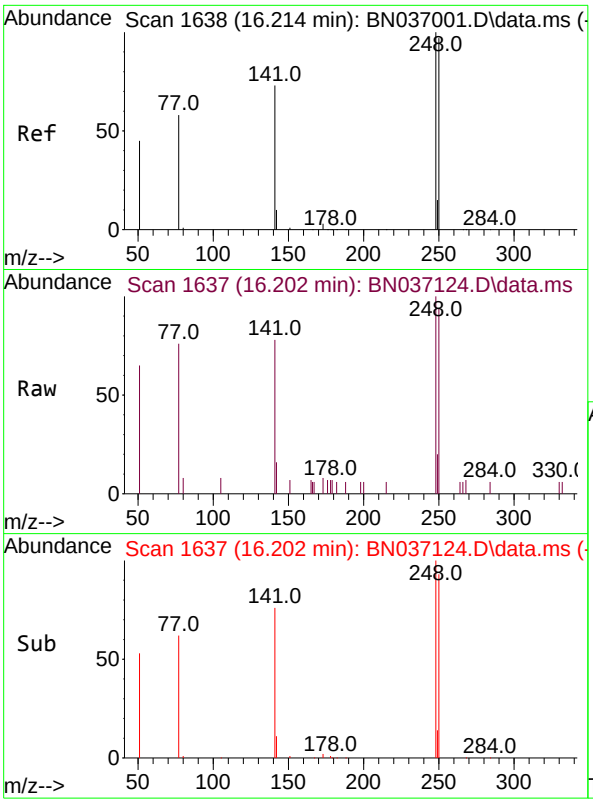


#20
4,6-Dinitro-2-methylphenol
Concen: 0.363 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:198 Resp: 334

Ion	Ratio	Lower	Upper
198	100		
51	115.9	87.8	131.6
105	65.4	44.2	66.4





#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

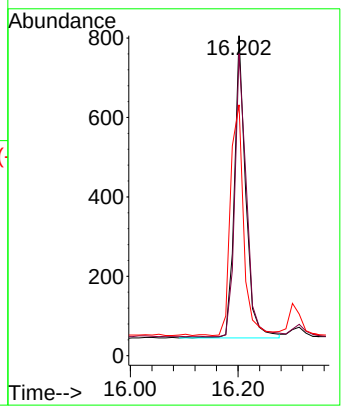
Tgt Ion:248 Resp: 110

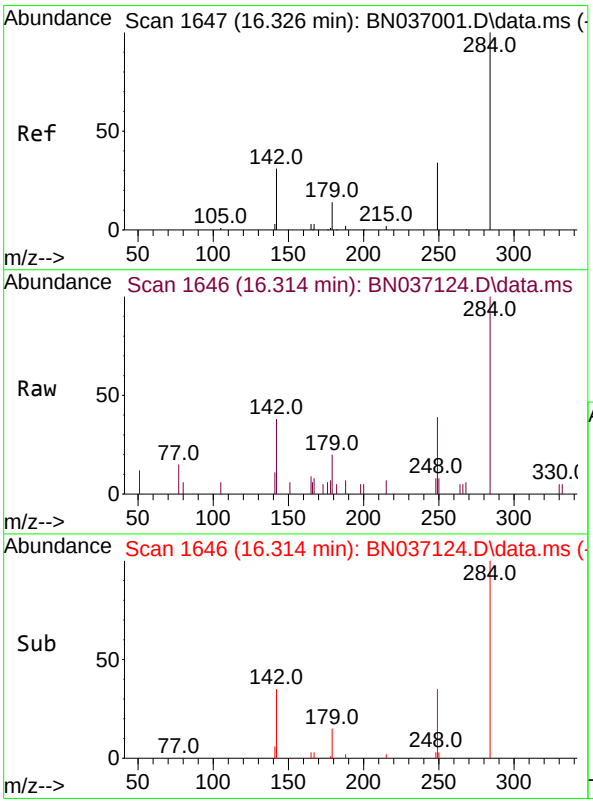
Ion	Ratio	Lower	Upper
248	100		
250	94.4	78.1	117.1
141	78.4	59.7	89.5

Instrument :
BNA_N
ClientSampleId :
PB168100BS

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Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

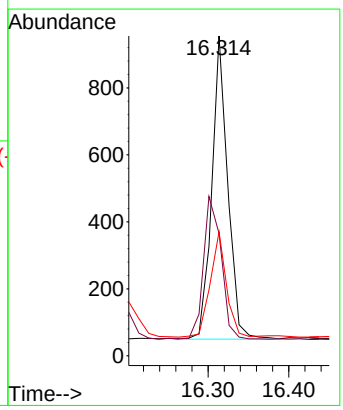


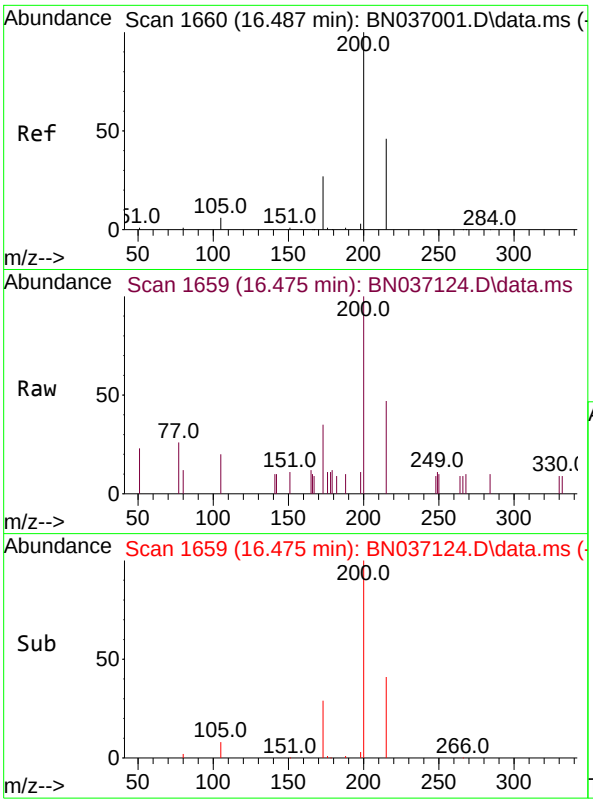


#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.314 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:284 Resp: 1238

Ion	Ratio	Lower	Upper
284	100		
142	52.4	41.2	61.8
249	35.2	28.7	43.1

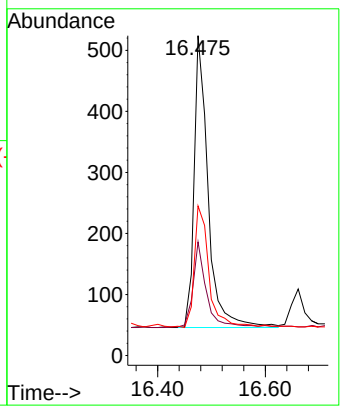




#23
Atrazine
Concen: 0.324 ng
RT: 16.475 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:200 Resp: 86

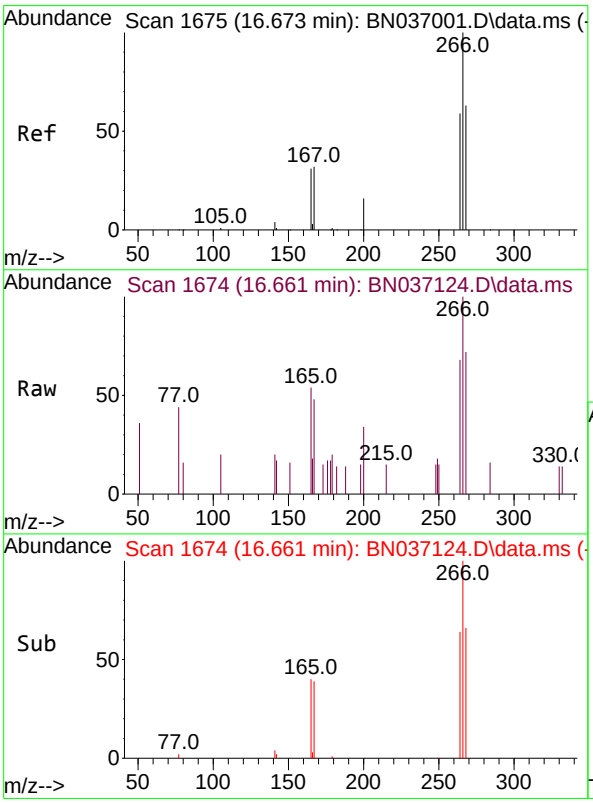
Ion	Ratio	Lower	Upper
200	100		
173	35.5	25.2	37.8
215	46.8	39.3	58.9



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
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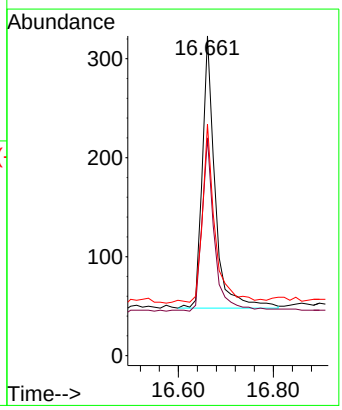
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

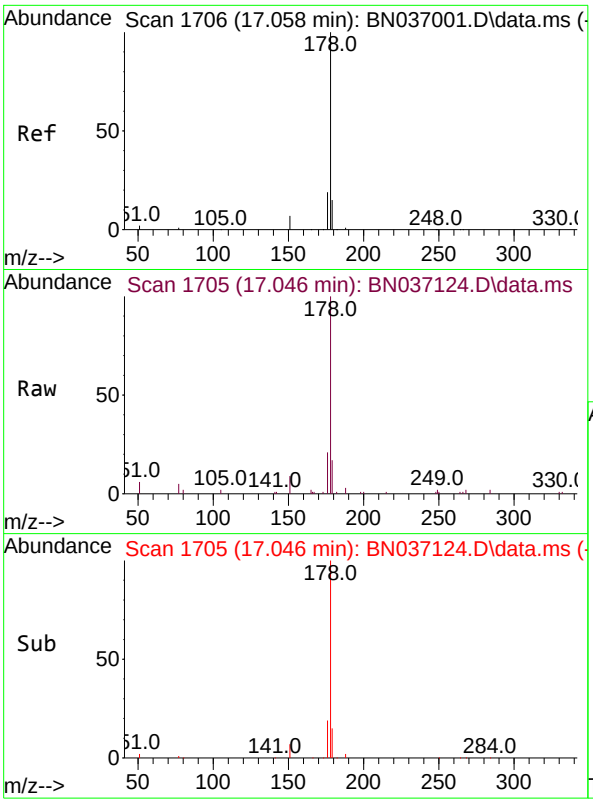


#24
Pentachlorophenol
Concen: 0.288 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:266 Resp: 517

Ion	Ratio	Lower	Upper
266	100		
264	61.7	47.9	71.9
268	65.4	50.0	75.0

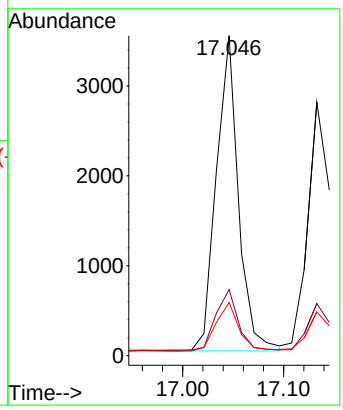




#25
Phenanthrene
Concen: 0.338 ng
RT: 17.046 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:178 Resp: 532

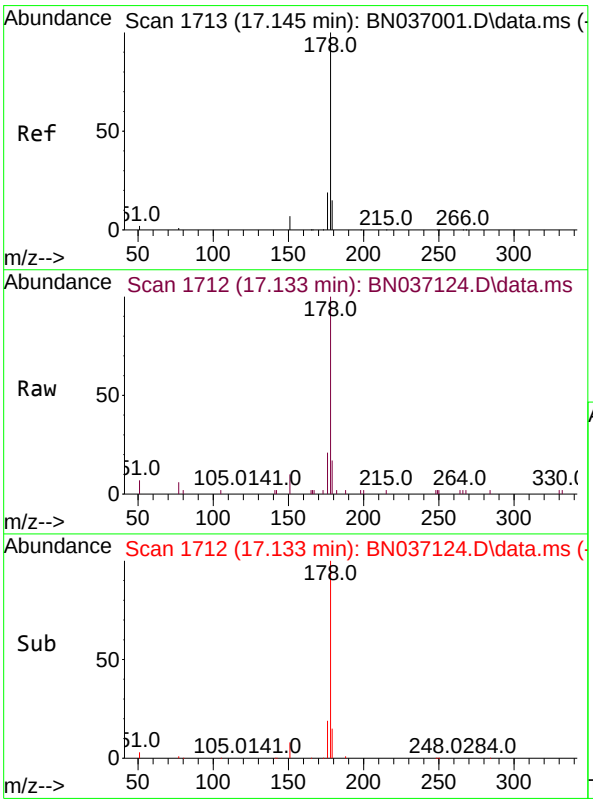
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.7	23.5
179	15.4	12.2	18.2



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
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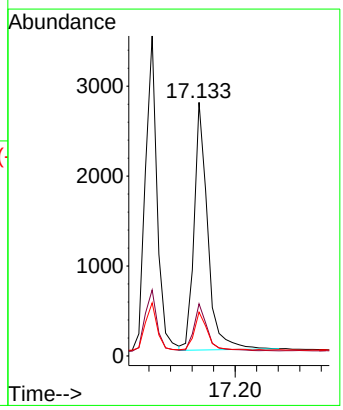
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

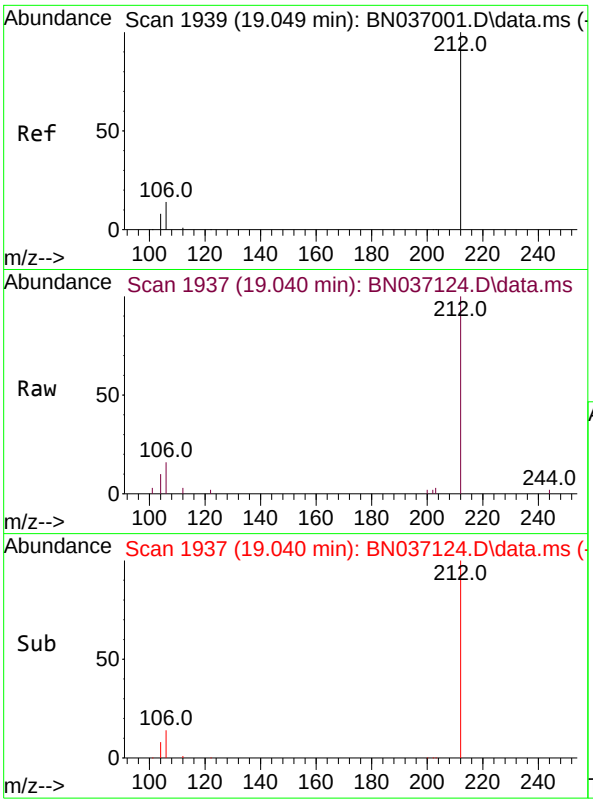


#26
Anthracene
Concen: 0.337 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:178 Resp: 4823

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.0	12.3	18.5

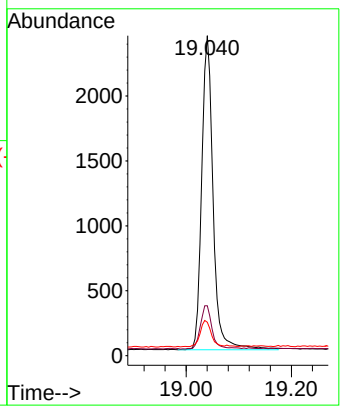




#27
Fluoranthene-d10
Concen: 0.276 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:212 Resp: 364

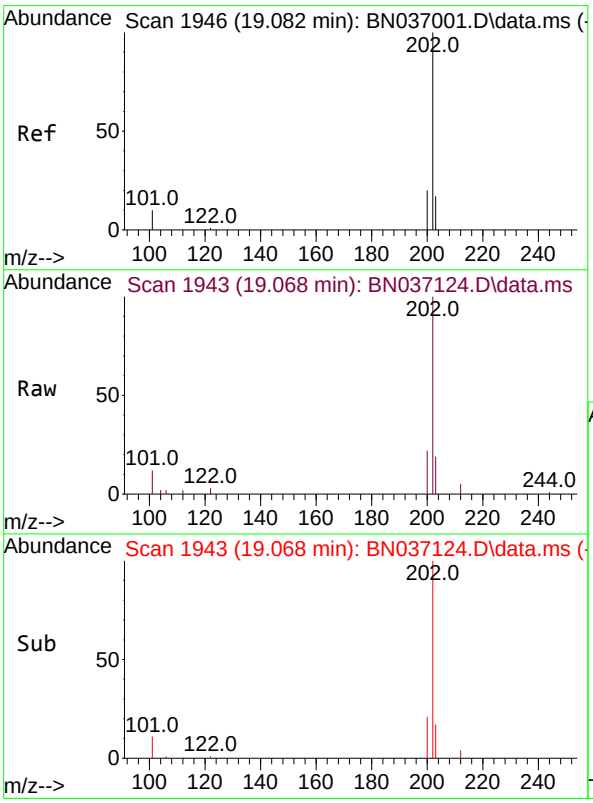
Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.3	16.9
104	8.2	6.7	10.1



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations APPROVED

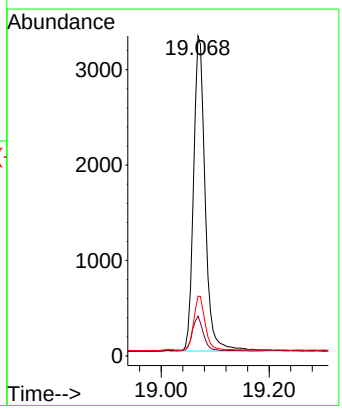
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

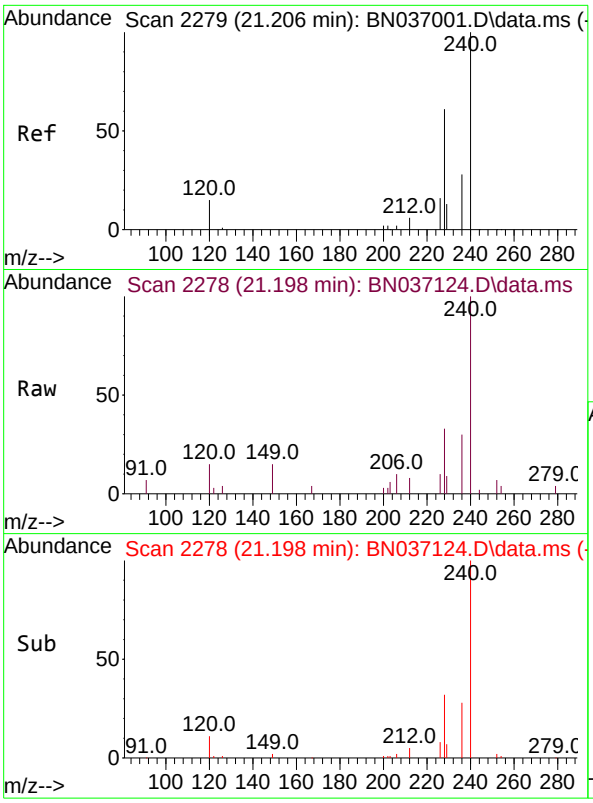


#28
Fluoranthene
Concen: 0.262 ng
RT: 19.068 min Scan# 1943
Delta R.T. -0.014 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:202 Resp: 4934

Ion	Ratio	Lower	Upper
202	100		
101	10.3	8.9	13.3
203	16.8	13.8	20.8

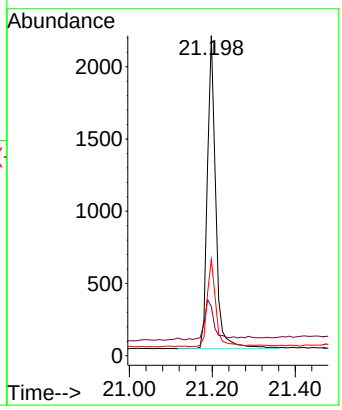




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:240 Resp: 307

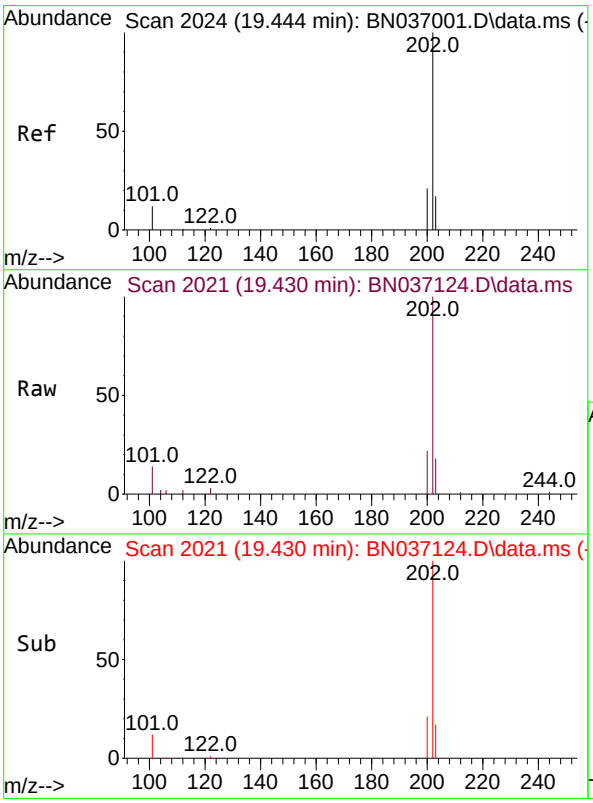
Ion	Ratio	Lower	Upper
240	100		
120	15.3	15.1	22.7
236	30.1	24.0	36.0



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations APPROVED

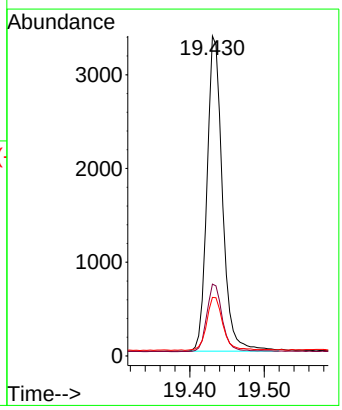
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

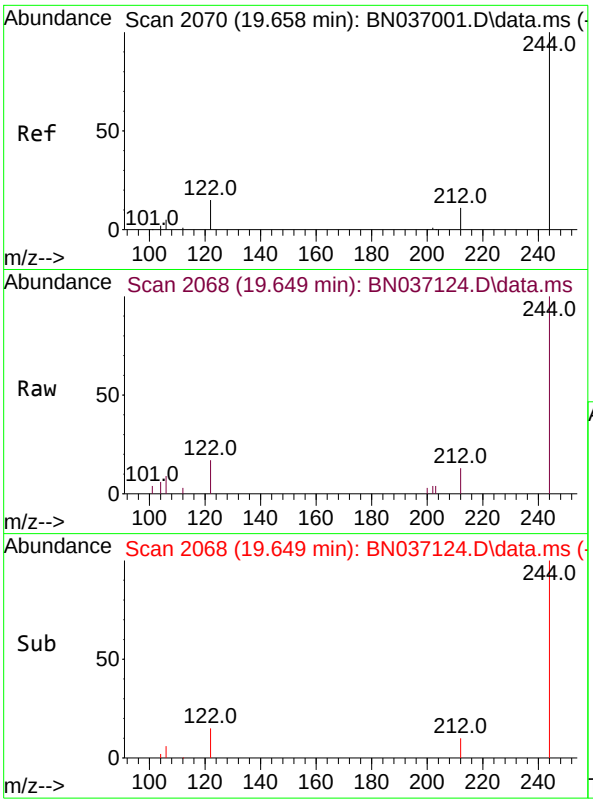


#30
Pyrene
Concen: 0.368 ng
RT: 19.430 min Scan# 2021
Delta R.T. -0.014 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:202 Resp: 4842

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.1	25.7
203	17.9	14.2	21.4

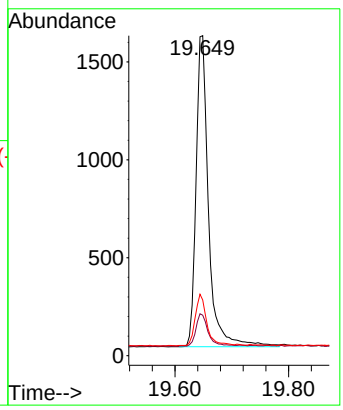




#31
Terphenyl-d14
Concen: 0.368 ng
RT: 19.649 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:244 Resp: 242

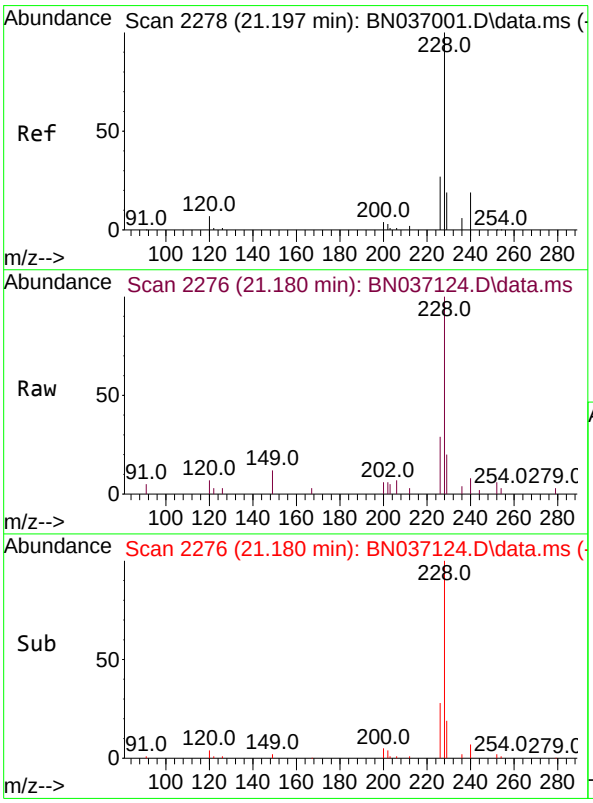
Ion	Ratio	Lower	Upper
244	100		
212	12.7	9.7	14.5
122	17.4	13.4	20.0



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
APPROVED

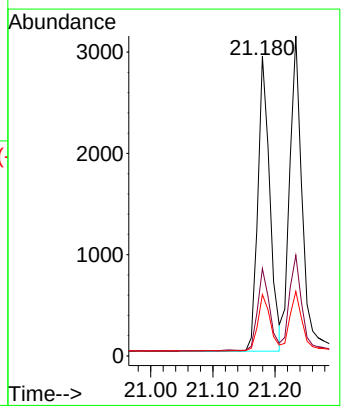
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

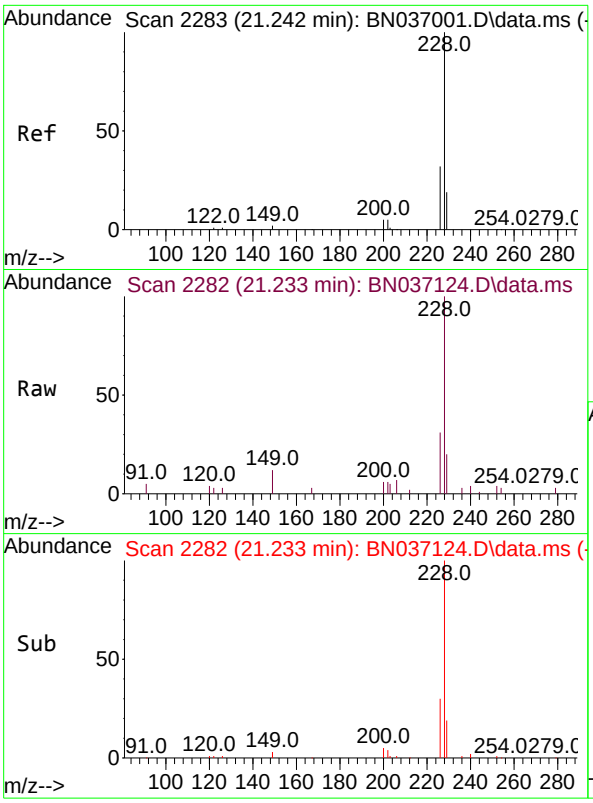


#32
Benzo(a)anthracene
Concen: 0.335 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.018 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:228 Resp: 3881

Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.2	33.4
229	20.5	16.0	24.0

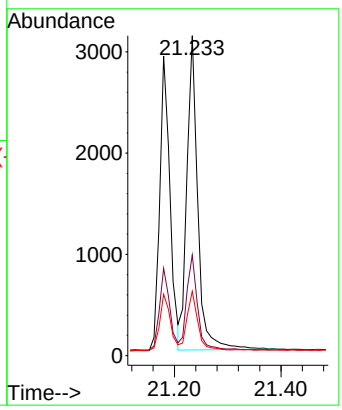




#33
Chrysene
Concen: 0.360 ng
RT: 21.233 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:228 Resp: 440

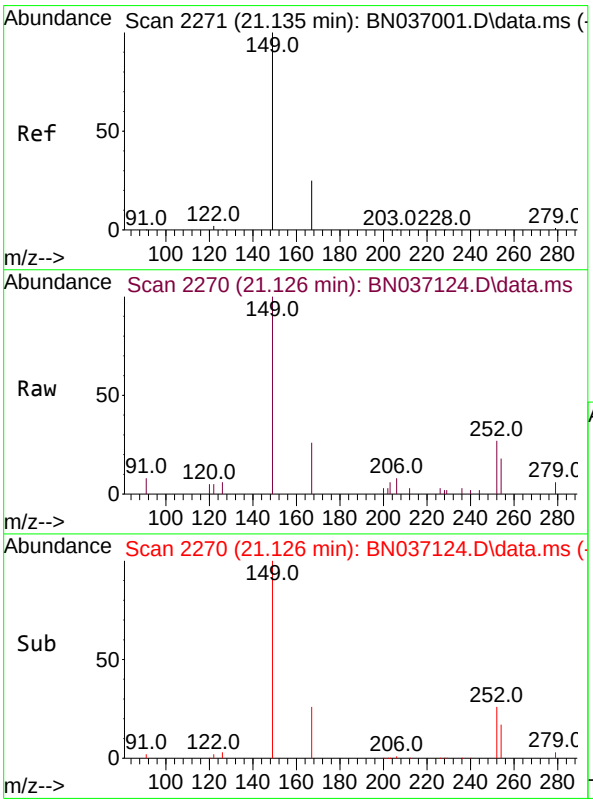
Ion	Ratio	Lower	Upper
228	100		
226	31.4	26.3	39.5
229	20.2	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
APPROVED

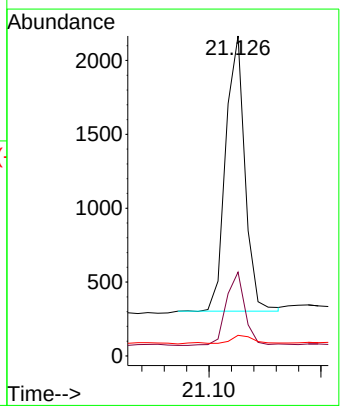
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

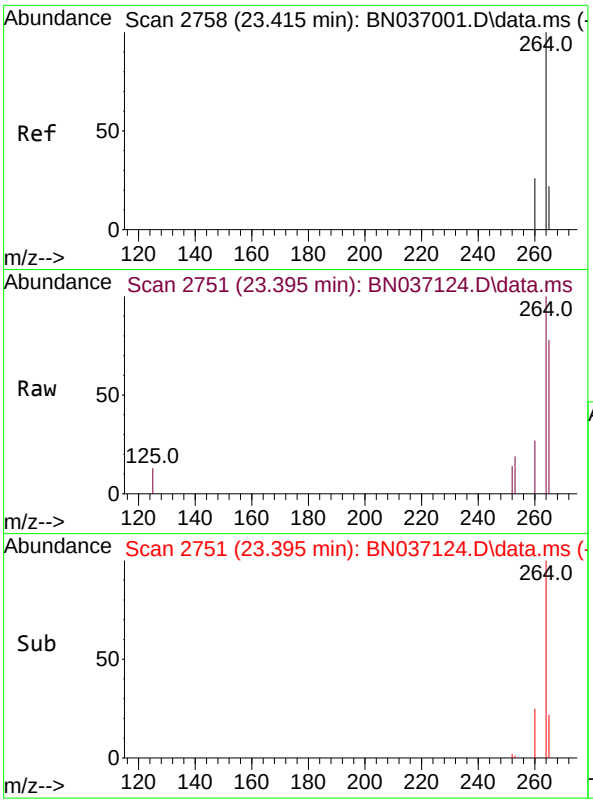


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.313 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:149 Resp: 2227

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.6	30.8
279	3.2	2.6	3.8

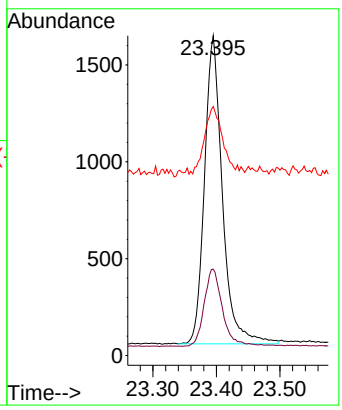




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.395 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:264 Resp: 311

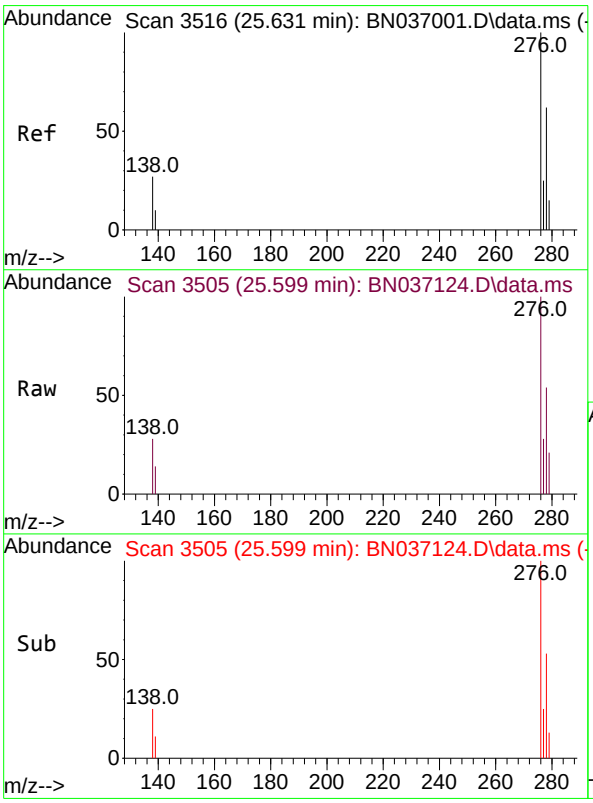
Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.9	32.9
265	77.8	51.6	77.4



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
APPROVED

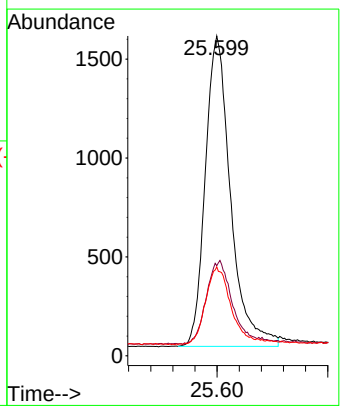
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

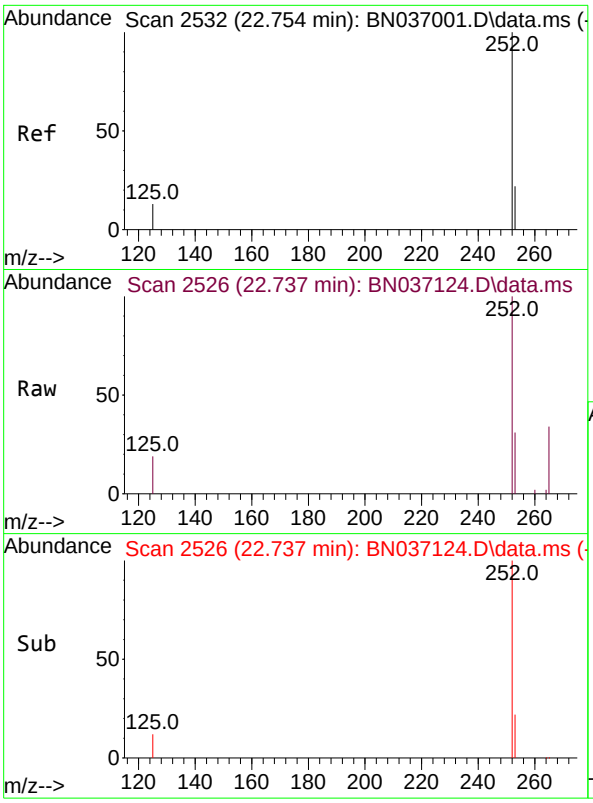


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.392 ng
RT: 25.599 min Scan# 3505
Delta R.T. -0.032 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:276 Resp: 4982

Ion	Ratio	Lower	Upper
276	100		
138	27.6	22.7	34.1
277	24.4	20.0	30.0

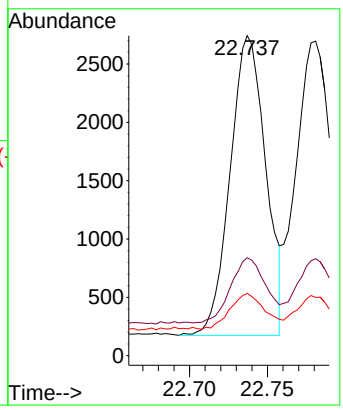




#37
Benzo(b)fluoranthene
Concen: 0.316 ng
RT: 22.737 min Scan# 2
Delta R.T. -0.017 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:252 Resp: 408

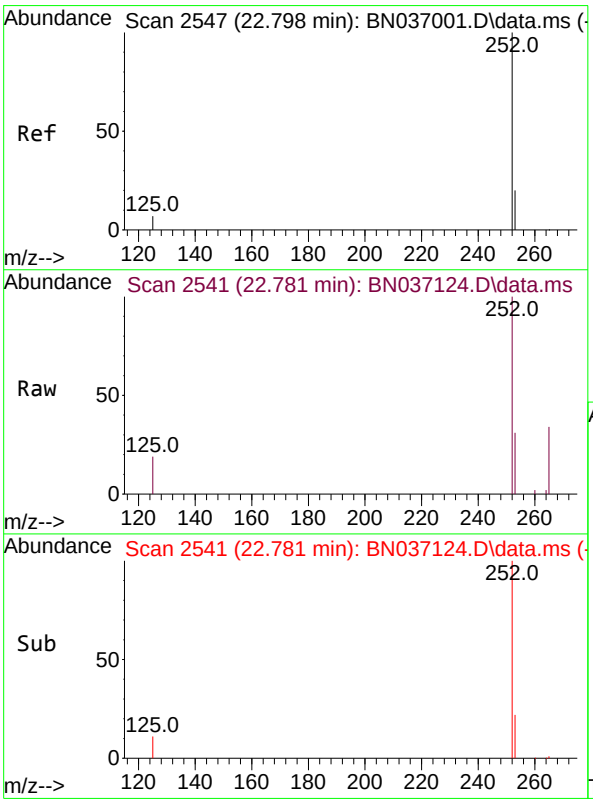
Ion	Ratio	Lower	Upper
252	100		
253	30.6	21.8	32.6
125	19.5	14.6	21.8



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations APPROVED

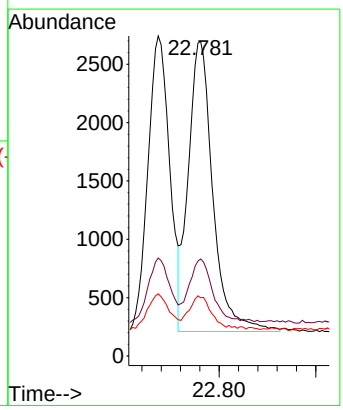
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

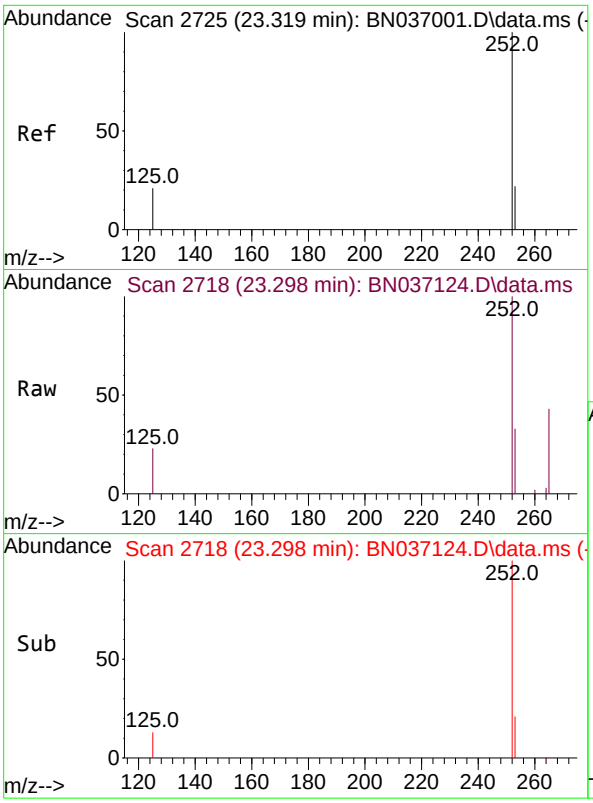


#38
Benzo(k)fluoranthene
Concen: 0.344 ng m
RT: 22.781 min Scan# 2541
Delta R.T. -0.017 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:252 Resp: 4383

Ion	Ratio	Lower	Upper
252	100		
253	30.8	21.4	32.2
125	18.5	13.0	19.4

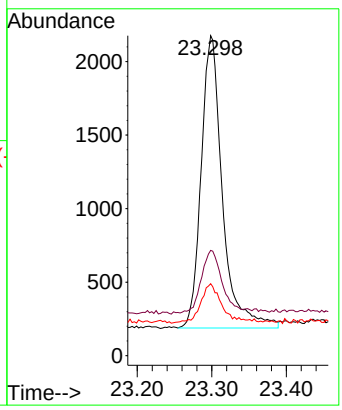




#39
Benzo(a)pyrene
Concen: 0.360 ng
RT: 23.298 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:252 Resp: 394

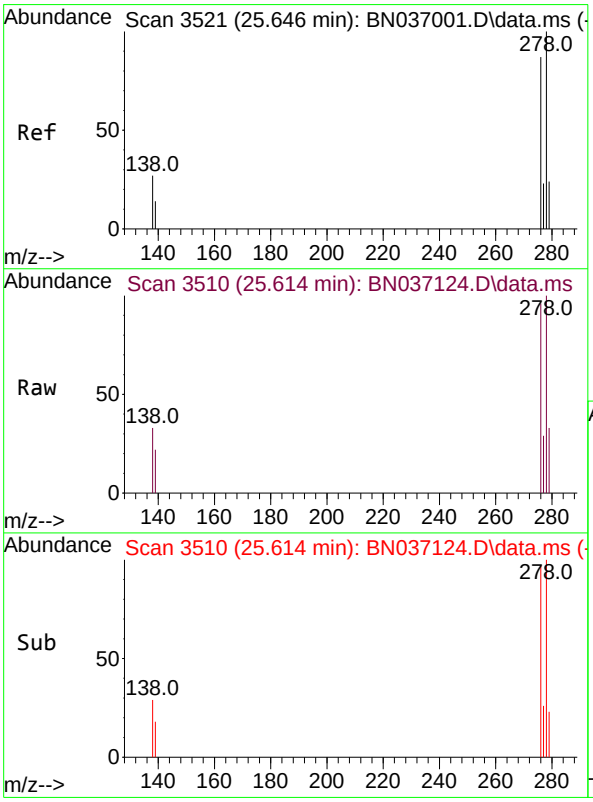
Ion	Ratio	Lower	Upper
252	100		
253	32.9	23.8	35.6
125	22.5	21.8	32.6



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
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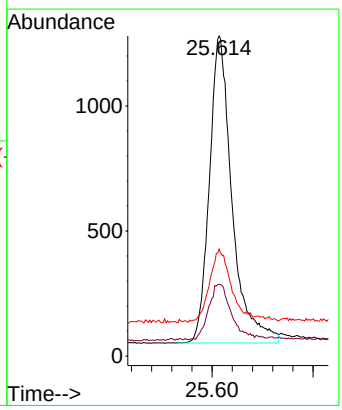
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

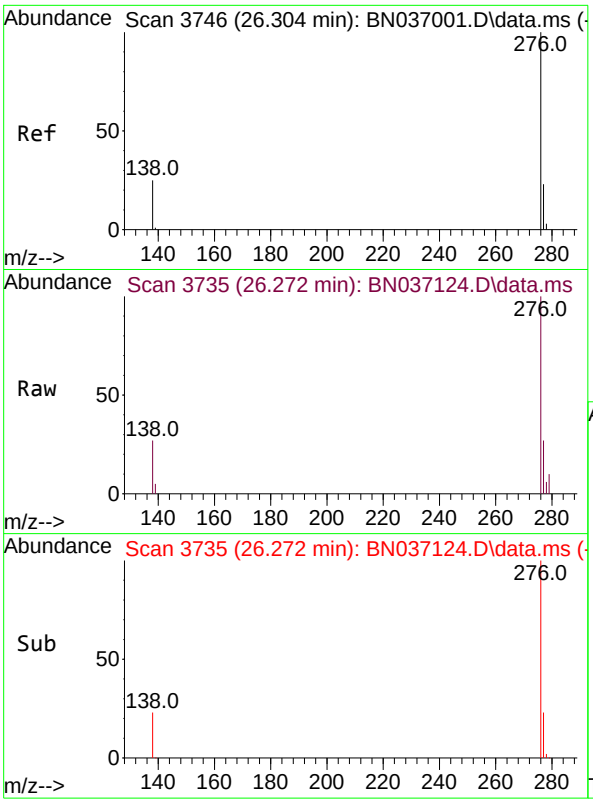


#40
Dibenzo(a,h)anthracene
Concen: 0.388 ng
RT: 25.614 min Scan# 3510
Delta R.T. -0.032 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:278 Resp: 3842

Ion	Ratio	Lower	Upper
278	100		
139	22.4	17.4	26.0
279	33.4	24.6	37.0

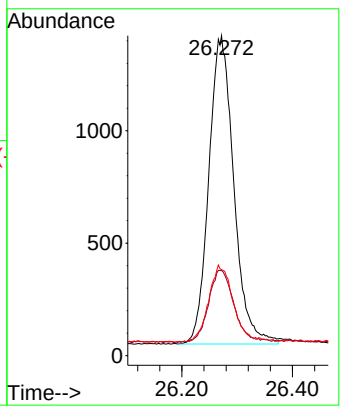




#41
Benzo(g,h,i)perylene
Concen: 0.399 ng
RT: 26.272 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:276 Resp: 429

Ion	Ratio	Lower	Upper
276	100		
277	26.6	20.2	30.4
138	26.8	22.0	33.0



Instrument :
BNA_N
ClientSampleId :
PB168100BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168100BSD	SDG No.:	Q2082
Lab Sample ID:	PB168100BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037125.D	1	05/21/25 08:41	05/29/25 00:59	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.29		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		73%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2250	7.611				
1146-65-2	Naphthalene-d8	5560	10.383				
15067-26-2	Acenaphthene-d10	2590	14.256				
1517-22-2	Phenanthrene-d10	4050	17.009				
1719-03-5	Chrysene-d12	2690	21.197				
1520-96-3	Perylene-d12	2820	23.392				

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\BN052825\
Data File : BN037125.D
Acq On : 29 May 2025 00:59
Operator : RC/JU
Sample : PB168100BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 29 01:34:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2246	0.400	ng	0.00
7) Naphthalene-d8	10.383	136	5562	0.400	ng	#-0.02
13) Acenaphthene-d10	14.256	164	2593	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4050	0.400	ng	# 0.00
29) Chrysene-d12	21.197	240	2689	0.400	ng	# 0.00
35) Perylene-d12	23.392	264	2817	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	2079	0.353	ng	0.00
5) Phenol-d6	6.788	99	2359	0.320	ng	0.00
8) Nitrobenzene-d5	8.760	82	2096	0.346	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	2821m	0.360	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	282	0.248	ng	-0.01
15) 2-Fluorobiphenyl	12.873	172	4652	0.392	ng	-0.02
27) Fluoranthene-d10	19.040	212	3234	0.291	ng	0.00
31) Terphenyl-d14	19.644	244	2197	0.382	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	793	0.288	ng	# 35
3) n-Nitrosodimethylamine	3.451	42	2060	0.348	ng	# 92
6) bis(2-Chloroethyl)ether	7.040	93	2273	0.335	ng	98
9) Naphthalene	10.436	128	5672	0.345	ng	98
10) Hexachlorobutadiene	10.725	225	1281	0.371	ng	# 99
12) 2-Methylnaphthalene	12.062	142	3173	0.300	ng	98
16) Acenaphthylene	13.967	152	4902	0.388	ng	99
17) Acenaphthene	14.320	154	2903	0.352	ng	99
18) Fluorene	15.314	166	3562	0.329	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	295	0.379	ng	94
21) 4-Bromophenyl-phenylether	16.202	248	1007	0.394	ng	94
22) Hexachlorobenzene	16.313	284	1097	0.401	ng	98
23) Atrazine	16.475	200	770	0.345	ng	94
24) Pentachlorophenol	16.661	266	431	0.286	ng	# 85
25) Phenanthrene	17.046	178	4747	0.359	ng	99
26) Anthracene	17.133	178	4404	0.366	ng	100
28) Fluoranthene	19.068	202	4429	0.280	ng	100
30) Pyrene	19.430	202	4405	0.383	ng	100
32) Benzo(a)anthracene	21.180	228	3556	0.351	ng	98
33) Chrysene	21.233	228	4044	0.378	ng	98
34) Bis(2-ethylhexyl)phtha...	21.126	149	2055	0.330	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.593	276	4915	0.427	ng	97
37) Benzo(b)fluoranthene	22.734	252	3833	0.328	ng	96
38) Benzo(k)fluoranthene	22.778	252	4110	0.356	ng	95
39) Benzo(a)pyrene	23.298	252	3660	0.369	ng	# 91
40) Dibenzo(a,h)anthracene	25.608	278	3782	0.422	ng	95
41) Benzo(g,h,i)perylene	26.272	276	4218	0.433	ng	98

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

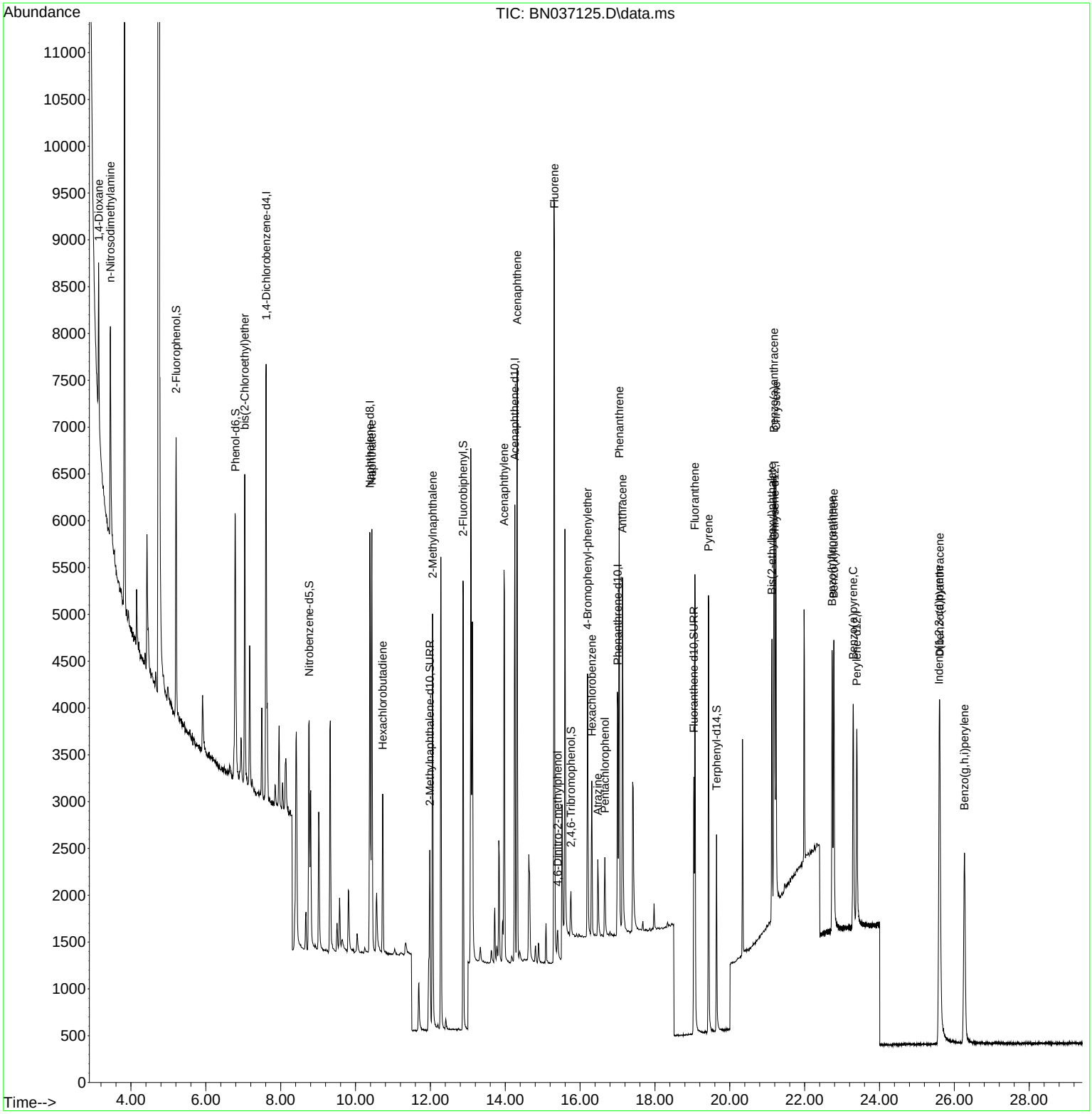
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037125.D
Acq On : 29 May 2025 00:59
Operator : RC/JU
Sample : PB168100BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

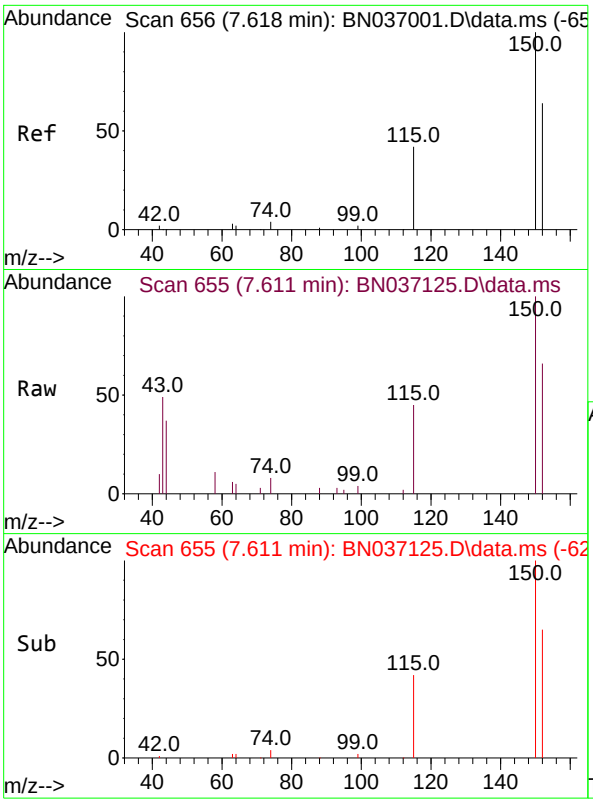
Quant Time: May 29 01:34:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

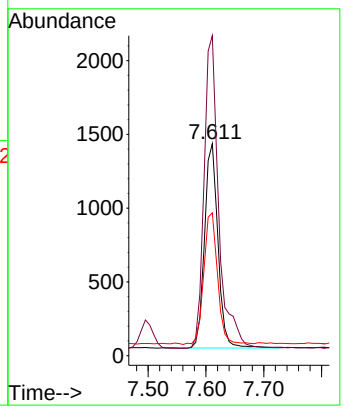




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:152 Resp: 224

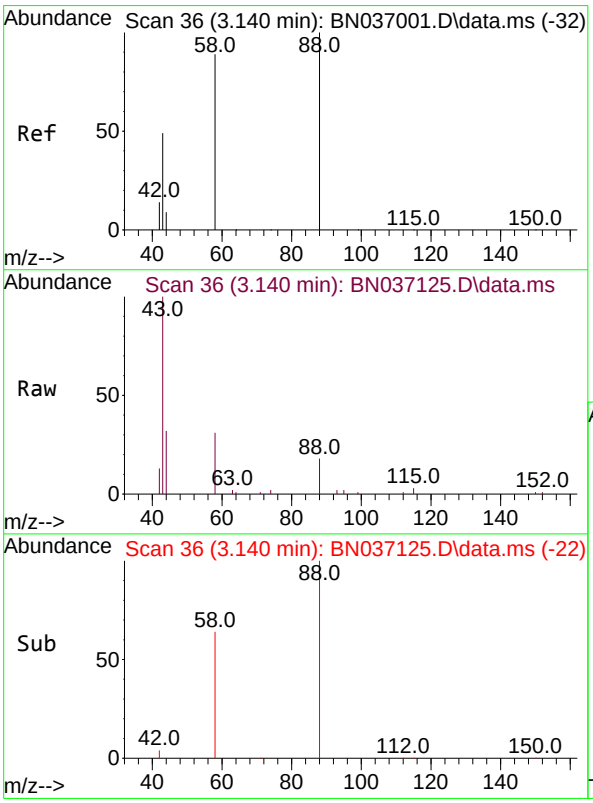
Ion	Ratio	Lower	Upper
152	100		
150	150.9	123.9	185.9
115	67.4	55.8	83.8



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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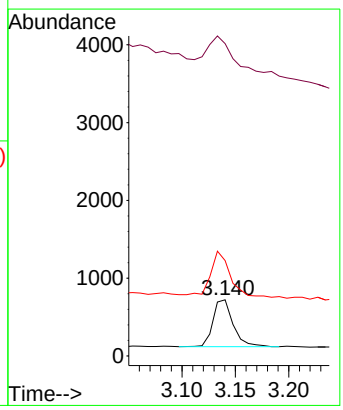
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

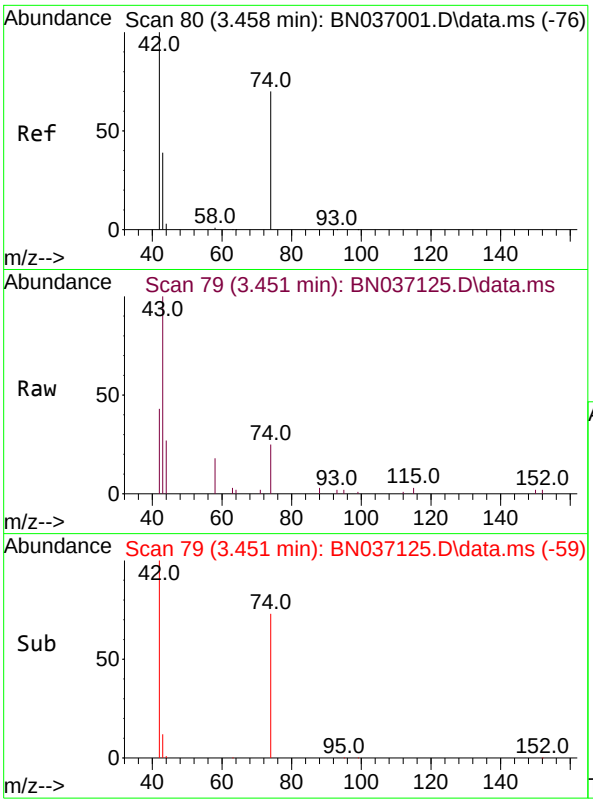


#2
1,4-Dioxane
Concen: 0.288 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion: 88 Resp: 793

Ion	Ratio	Lower	Upper
88	100		
43	145.6	37.4	56.0#
58	103.7	68.8	103.2#





#3
n-Nitrosodimethylamine
Concen: 0.348 ng
RT: 3.451 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

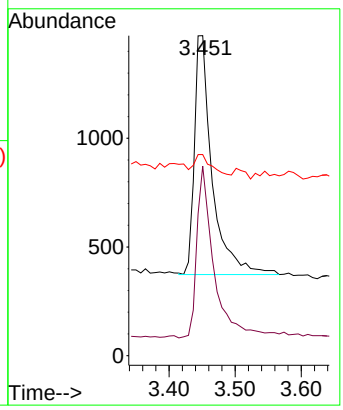
Tgt Ion: 42 Resp: 206

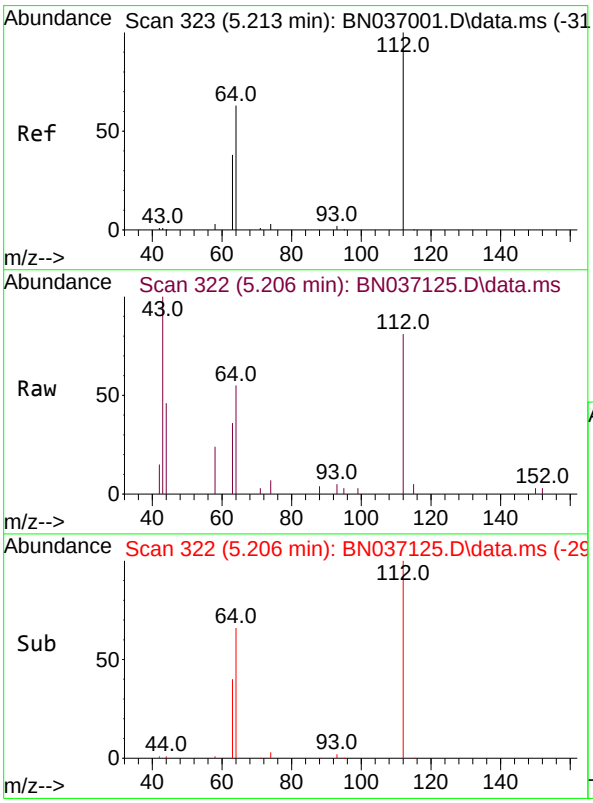
Ion	Ratio	Lower	Upper
42	100		
74	69.8	59.8	89.6
44	7.6	11.9	17.9

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

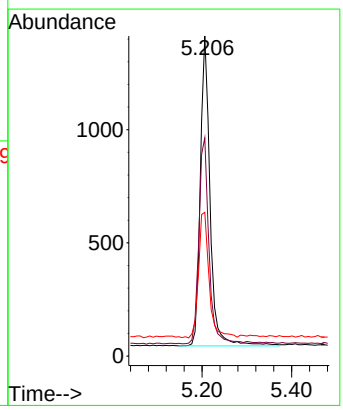


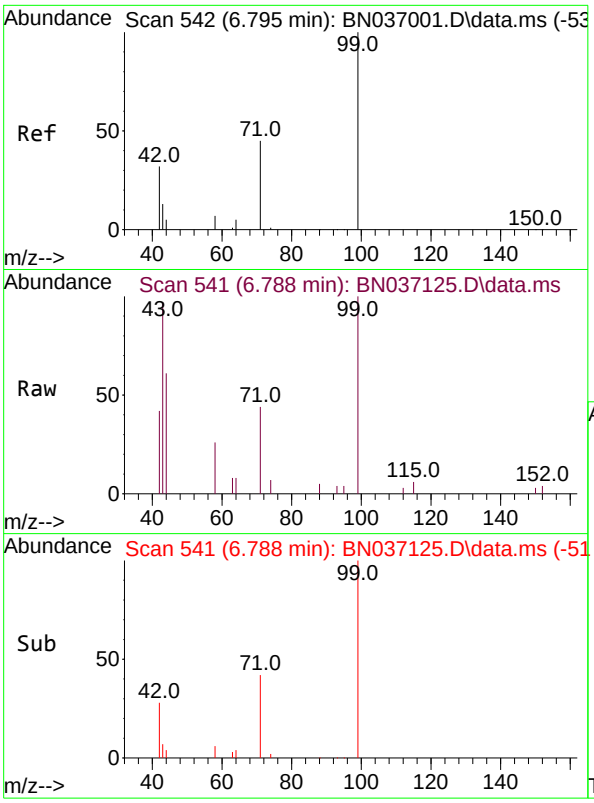


#4
2-Fluorophenol
Concen: 0.353 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:112 Resp: 2079

Ion	Ratio	Lower	Upper
112	100		
64	68.4	55.7	83.5
63	43.2	34.6	51.8

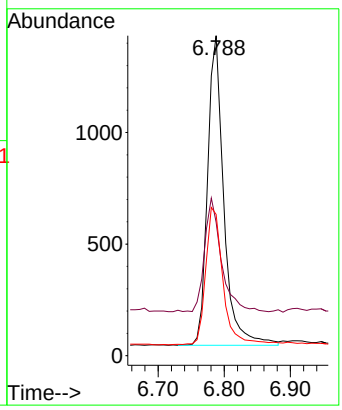




#5
Phenol-d6
Concen: 0.320 ng
RT: 6.788 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion: 99 Resp: 235

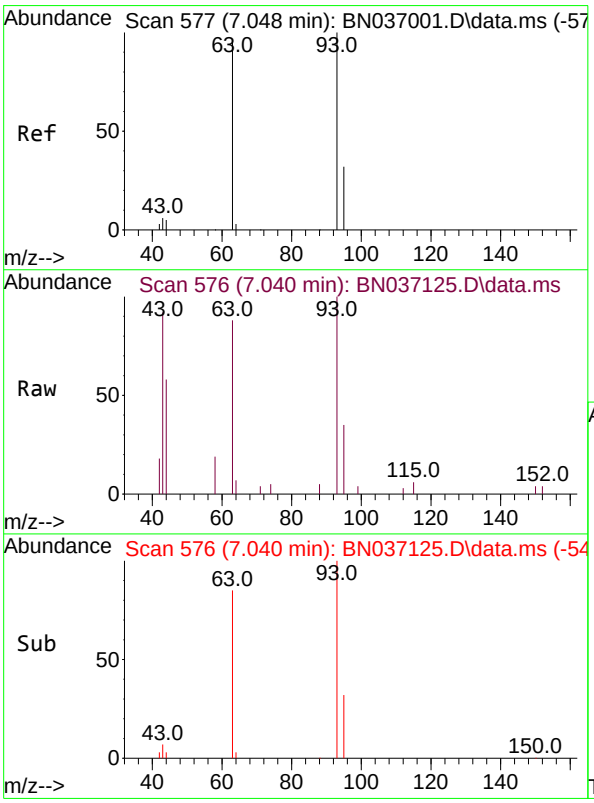
Ion	Ratio	Lower	Upper
99	100		
42	37.9	29.3	43.9
71	47.5	35.7	53.5



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
APPROVED

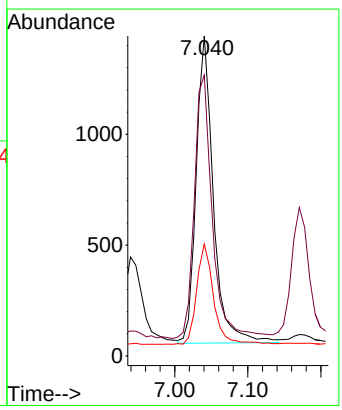
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

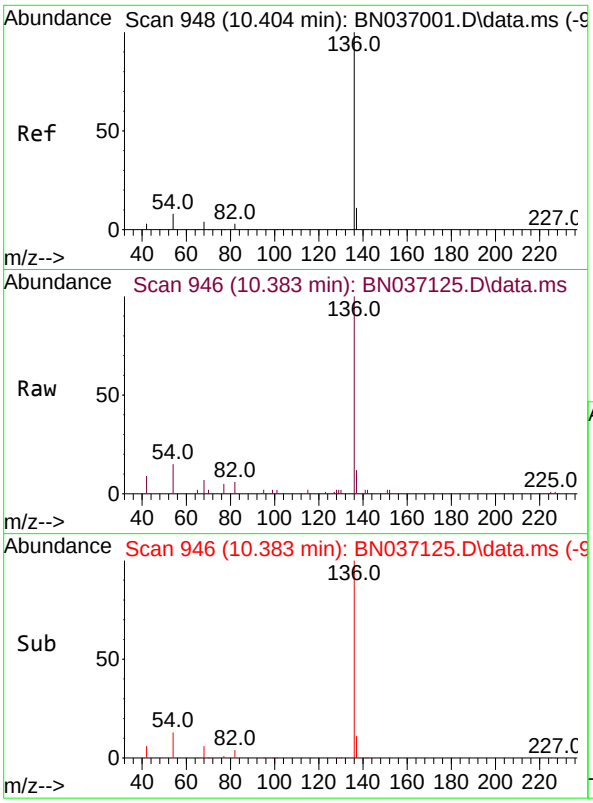


#6
bis(2-Chloroethyl)ether
Concen: 0.335 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion: 93 Resp: 2273

Ion	Ratio	Lower	Upper
93	100		
63	89.7	70.1	105.1
95	31.9	26.2	39.2

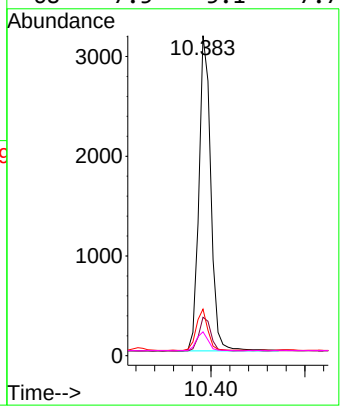




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:136 Resp: 556

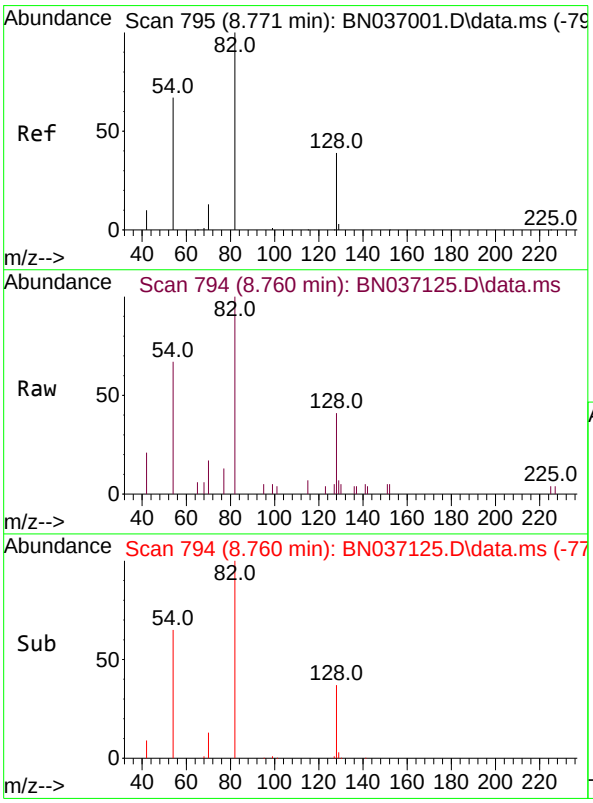
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.4	15.6
54	14.6	8.5	12.7
68	7.5	5.1	7.7



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations APPROVED

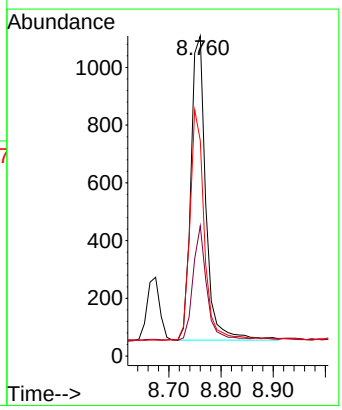
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

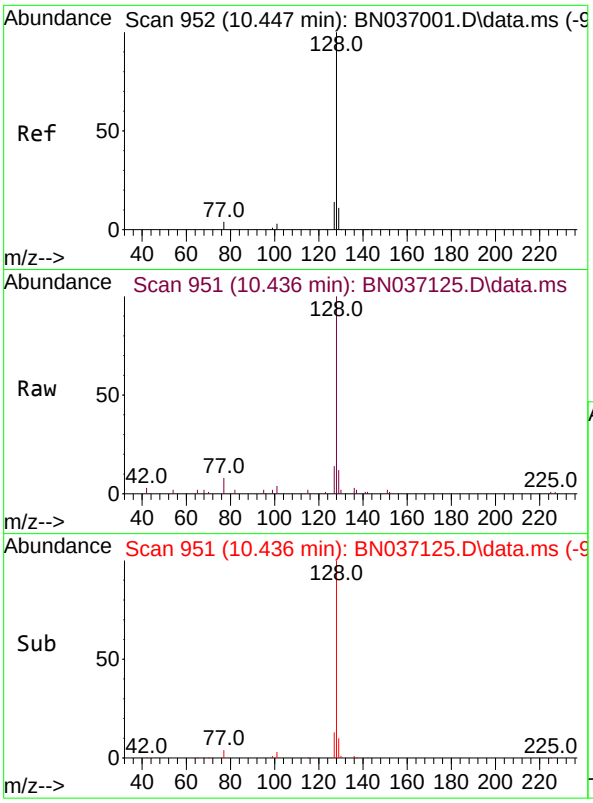


#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion: 82 Resp: 2096

Ion	Ratio	Lower	Upper
82	100		
128	40.7	34.0	51.0
54	67.4	55.0	82.4

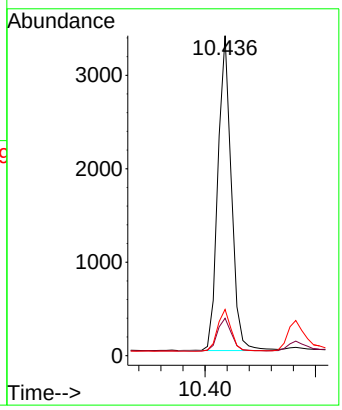




#9
Naphthalene
Concen: 0.345 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:128 Resp: 567

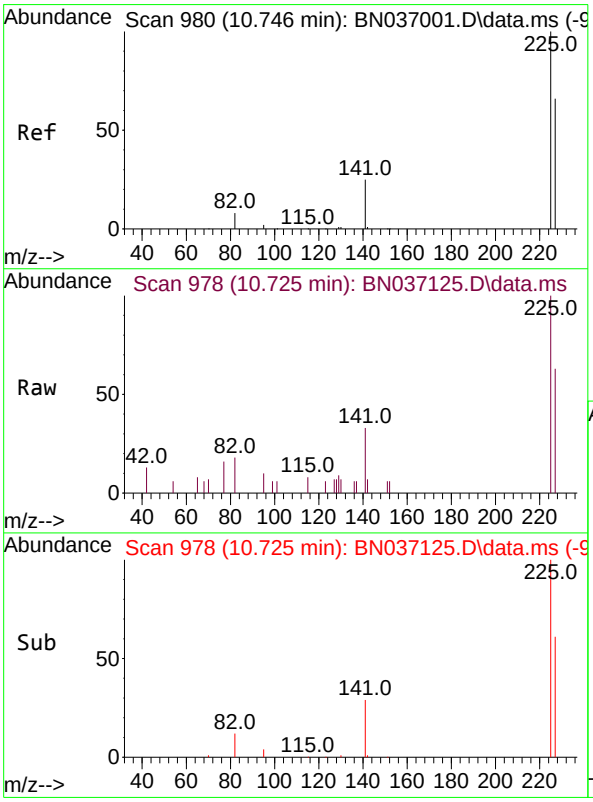
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.7	14.5
127	14.4	12.4	18.6



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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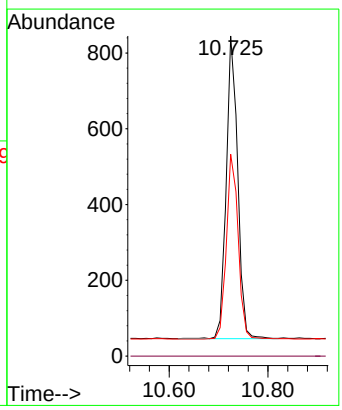
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

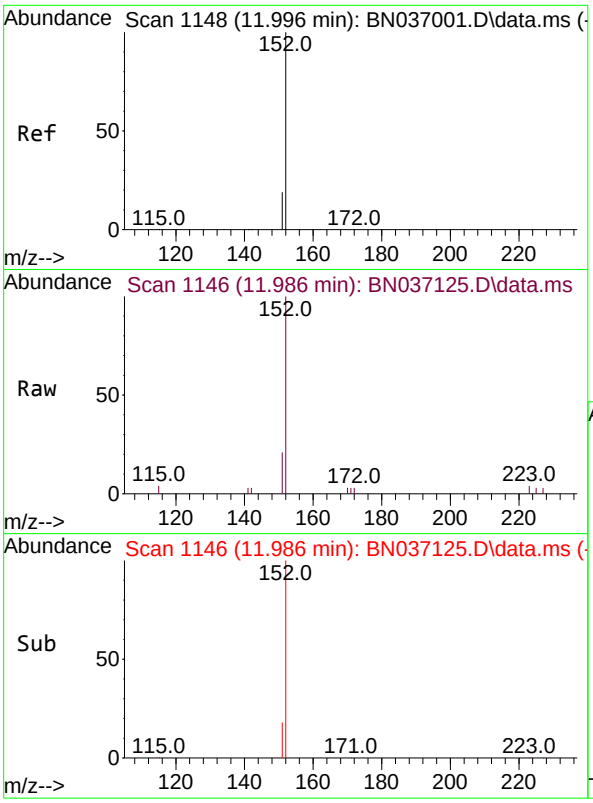


#10
Hexachlorobutadiene
Concen: 0.371 ng
RT: 10.725 min Scan# 978
Delta R.T. -0.021 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:225 Resp: 1281

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.0	50.9	76.3





#11
2-Methylnaphthalene-d10
Concen: 0.360 ng m
RT: 11.986 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

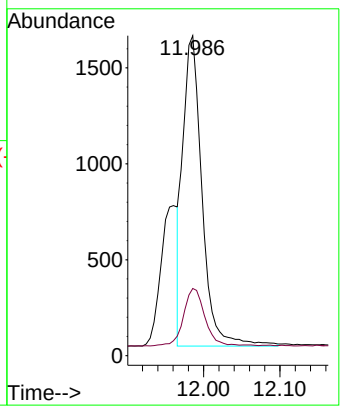
Tgt Ion:152 Resp: 282

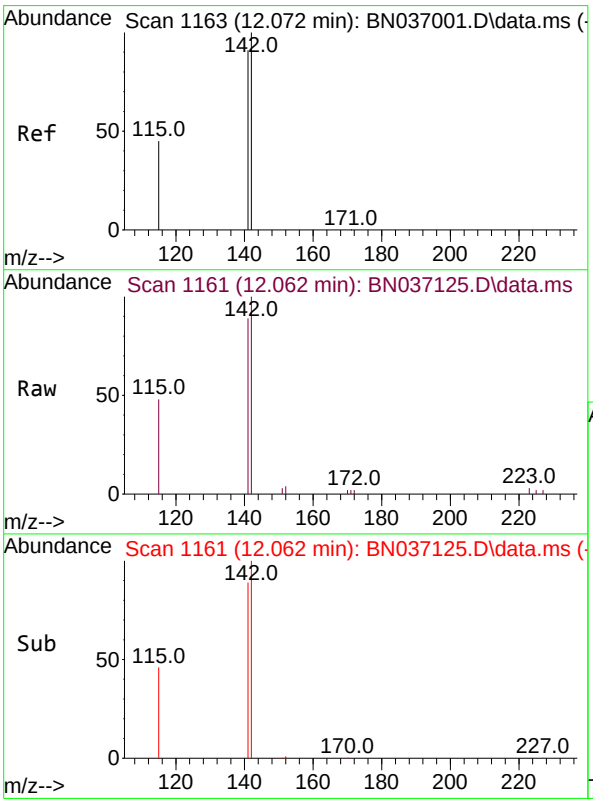
Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.5	26.3

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

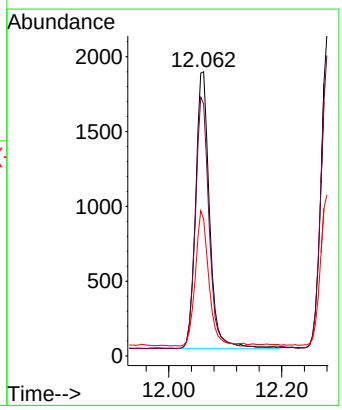


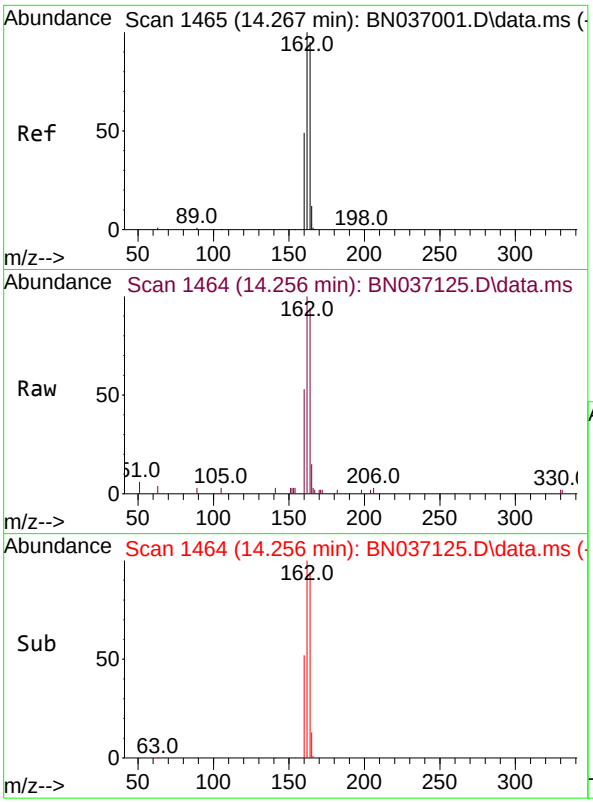


#12
2-Methylnaphthalene
Concen: 0.300 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:142 Resp: 3173

Ion	Ratio	Lower	Upper
142	100		
141	88.7	73.3	109.9
115	48.2	38.4	57.6

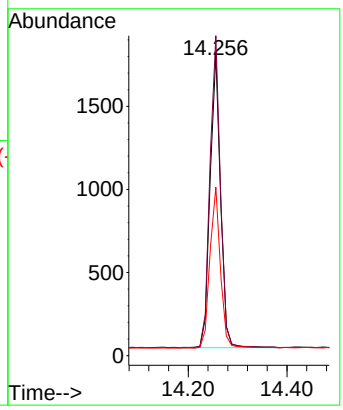




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:164 Resp: 259

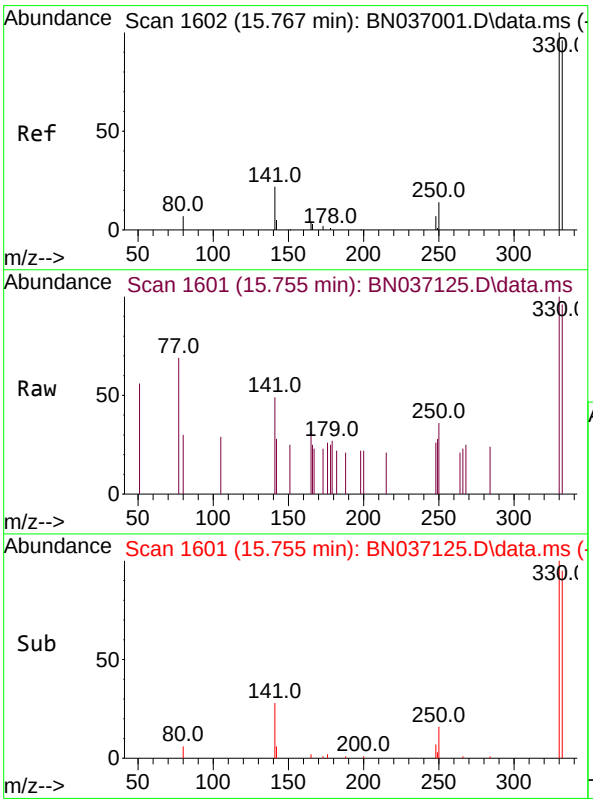
Ion	Ratio	Lower	Upper
164	100		
162	106.3	84.2	126.4
160	55.9	42.6	63.8



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations APPROVED

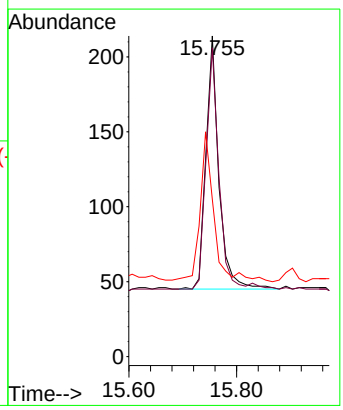
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

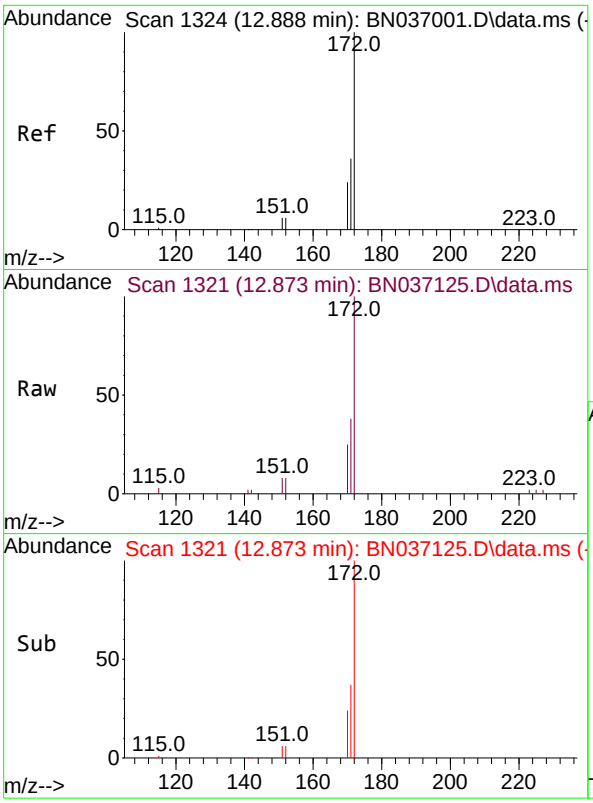


#14
2,4,6-Tribromophenol
Concen: 0.248 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:330 Resp: 282

Ion	Ratio	Lower	Upper
330	100		
332	92.9	73.8	110.8
141	63.1	43.9	65.9

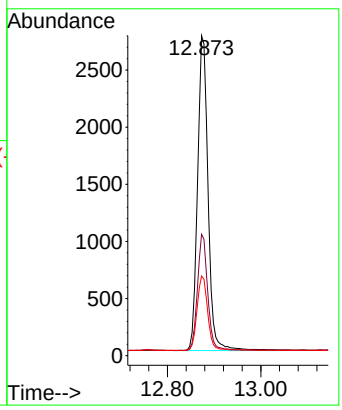




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.873 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:172 Resp: 465

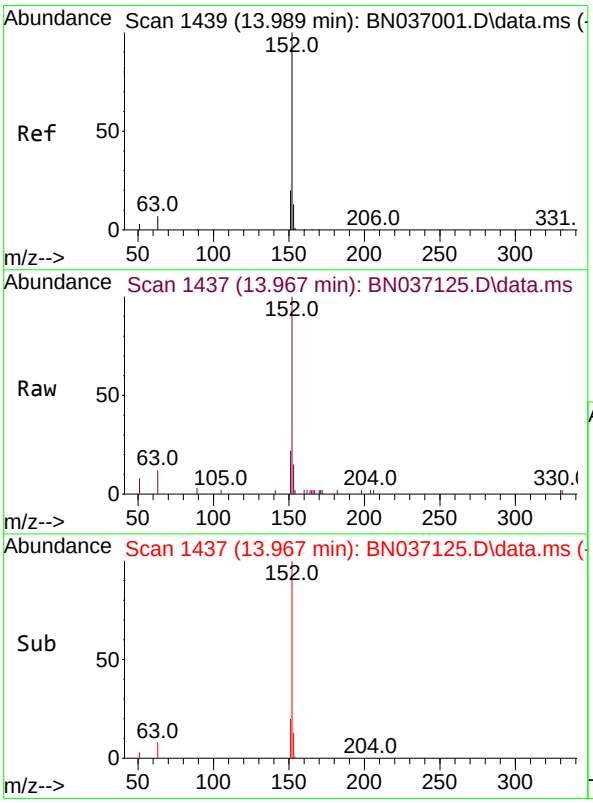
Ion	Ratio	Lower	Upper
172	100		
171	38.0	29.2	43.8
170	24.9	20.5	30.7



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations APPROVED

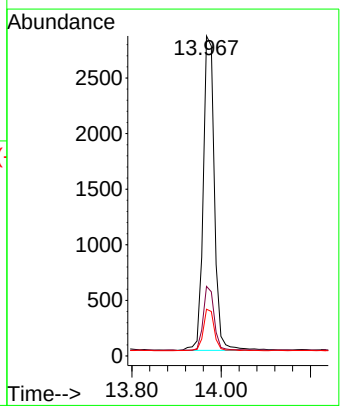
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

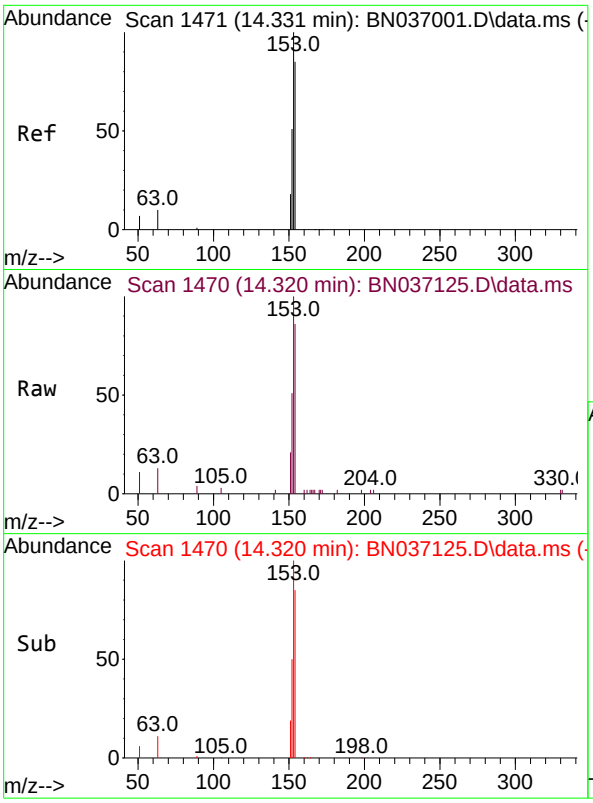


#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:152 Resp: 4902

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.1	24.1
153	13.1	10.5	15.7

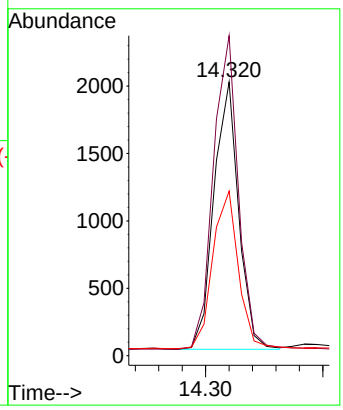




#17
Acenaphthene
Concen: 0.352 ng
RT: 14.320 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:154 Resp: 290

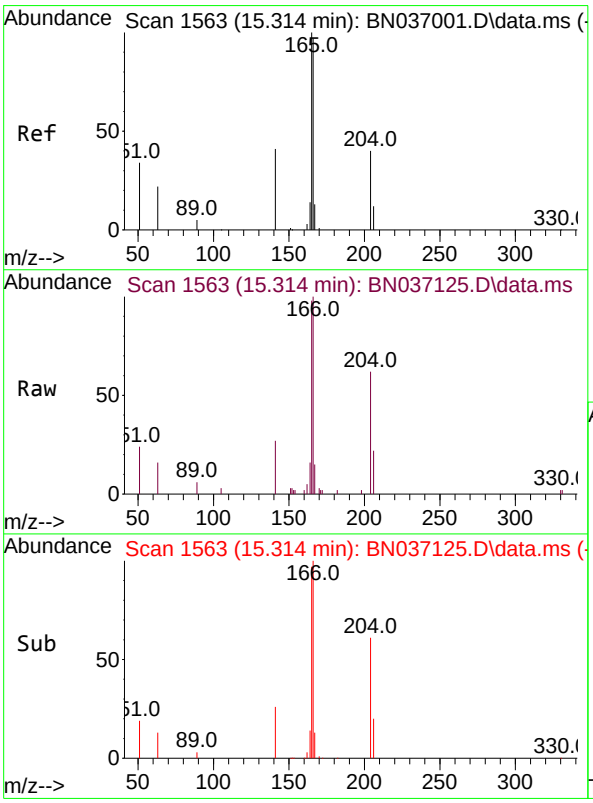
Ion	Ratio	Lower	Upper
154	100		
153	118.7	94.2	141.4
152	62.5	49.4	74.0



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
APPROVED

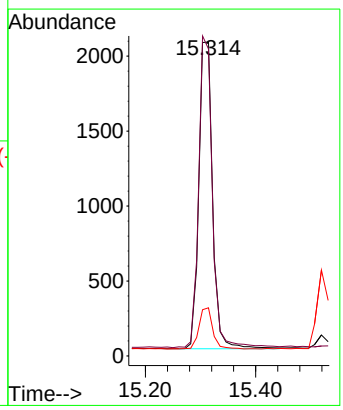
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

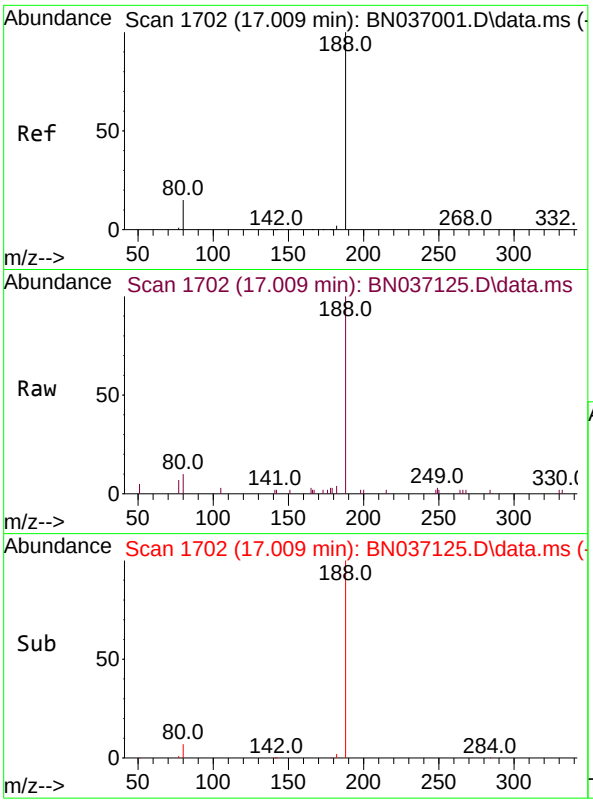


#18
Fluorene
Concen: 0.329 ng
RT: 15.314 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:166 Resp: 3562

Ion	Ratio	Lower	Upper
166	100		
165	100.4	80.6	120.8
167	13.3	10.6	16.0

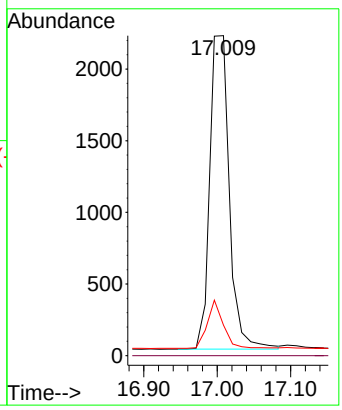




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:188 Resp: 405

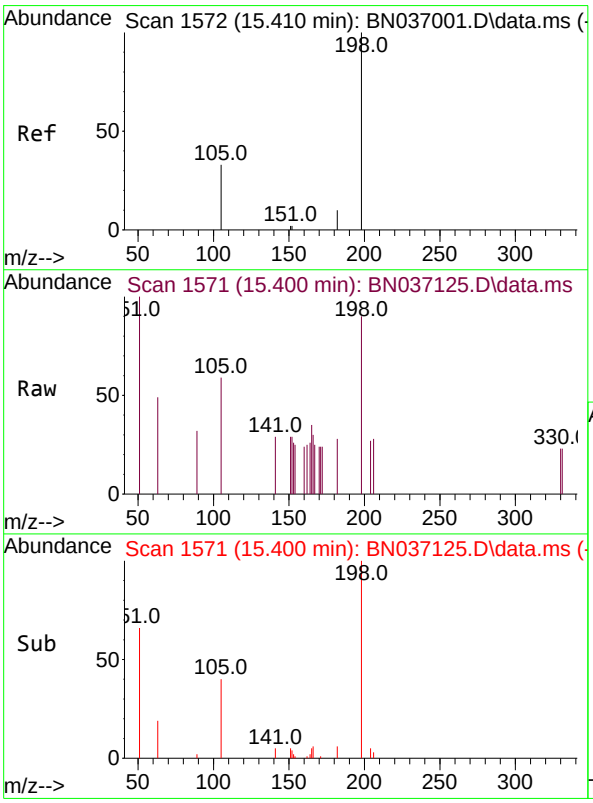
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	13.4	20.0#



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations APPROVED

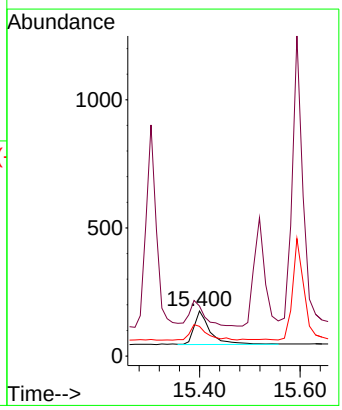
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

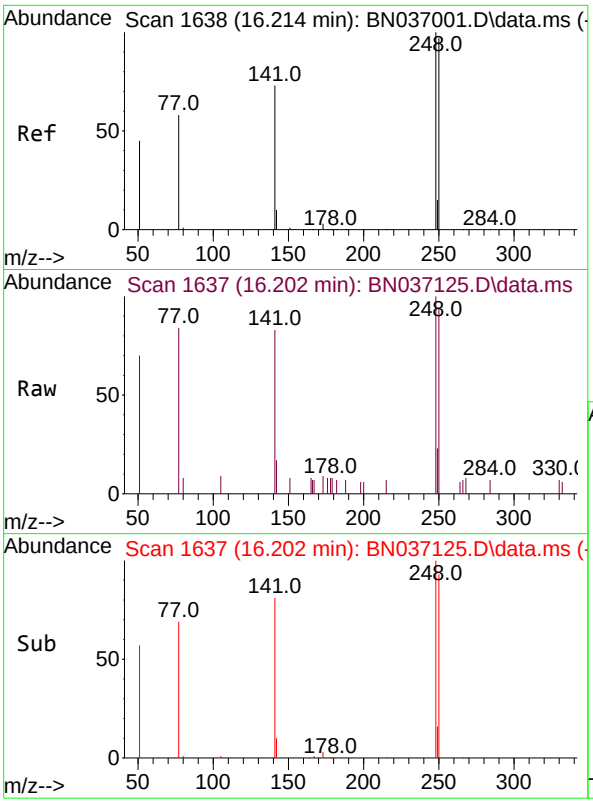


#20
4,6-Dinitro-2-methylphenol
Concen: 0.379 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:198 Resp: 295

Ion	Ratio	Lower	Upper
198	100		
51	110.8	87.8	131.6
105	65.9	44.2	66.4





#21
4-Bromophenyl-phenylether
Concen: 0.394 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

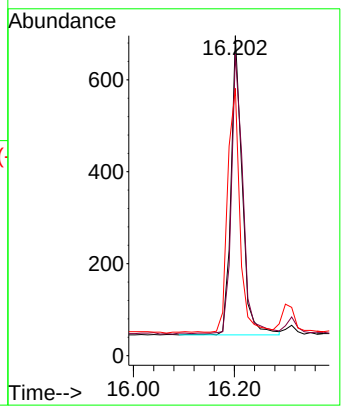
Tgt Ion:248 Resp: 100

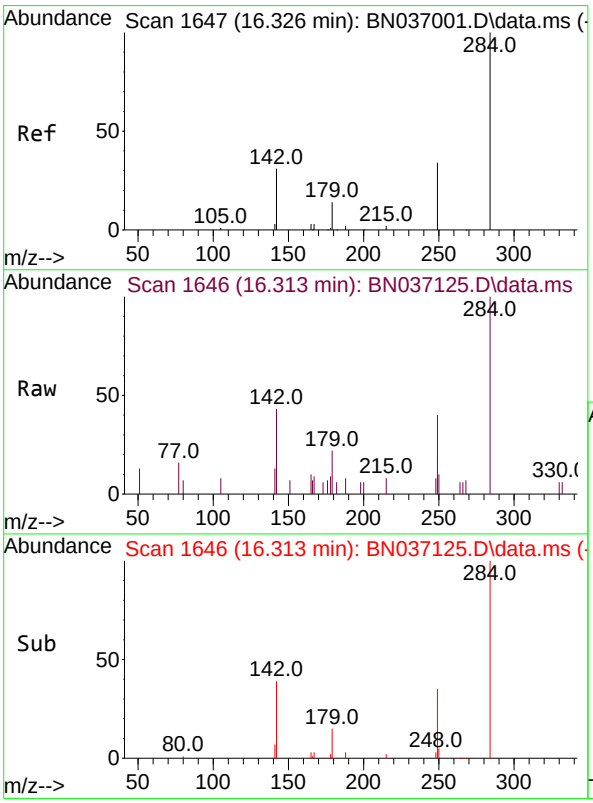
Ion	Ratio	Lower	Upper
248	100		
250	94.3	78.1	117.1
141	83.5	59.7	89.5

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

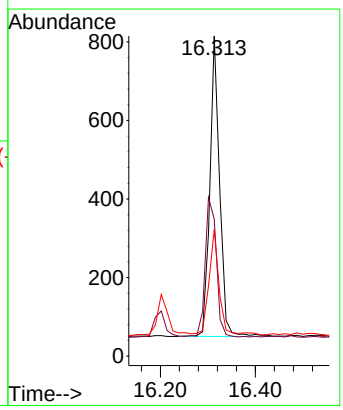


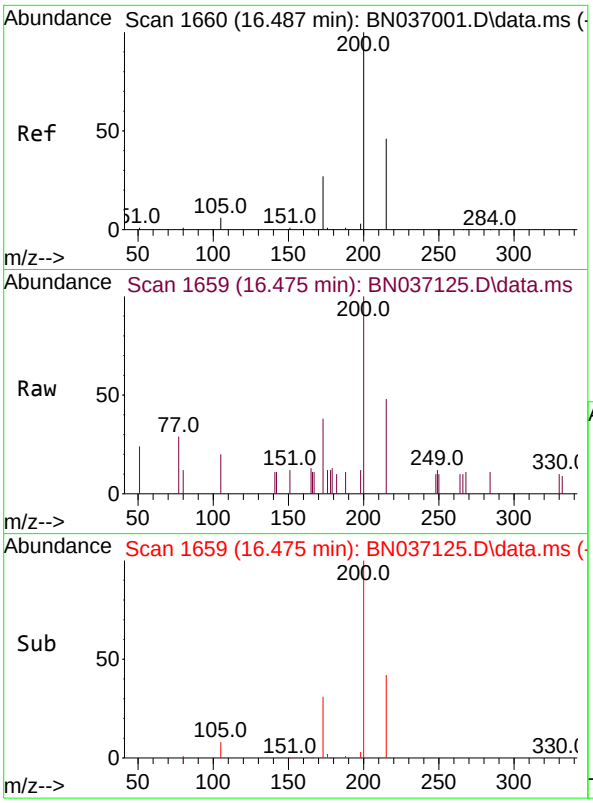


#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.313 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:284 Resp: 1097

Ion	Ratio	Lower	Upper
284	100		
142	52.8	41.2	61.8
249	36.6	28.7	43.1

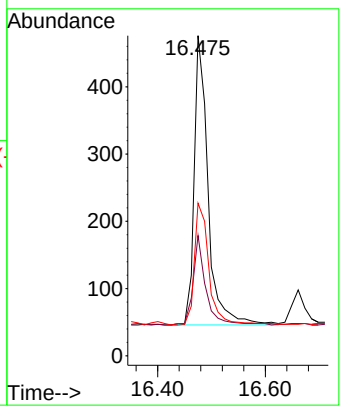




#23
Atrazine
Concen: 0.345 ng
RT: 16.475 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:200 Resp: 77(

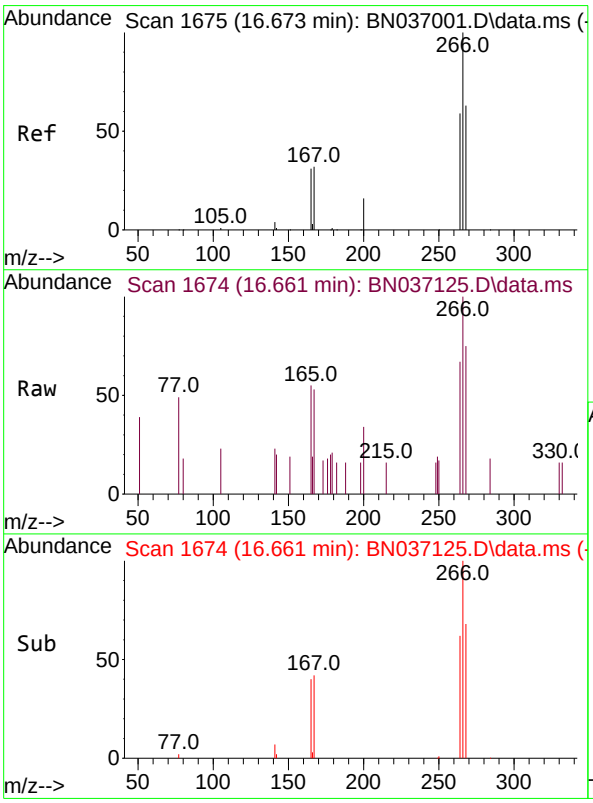
Ion	Ratio	Lower	Upper
200	100		
173	37.6	25.2	37.8
215	47.7	39.3	58.9



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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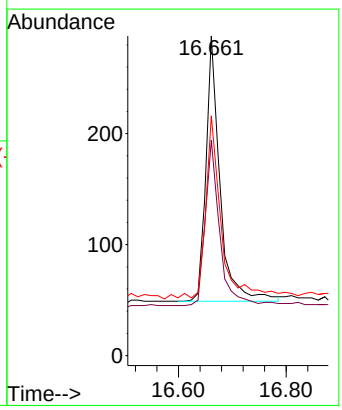
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

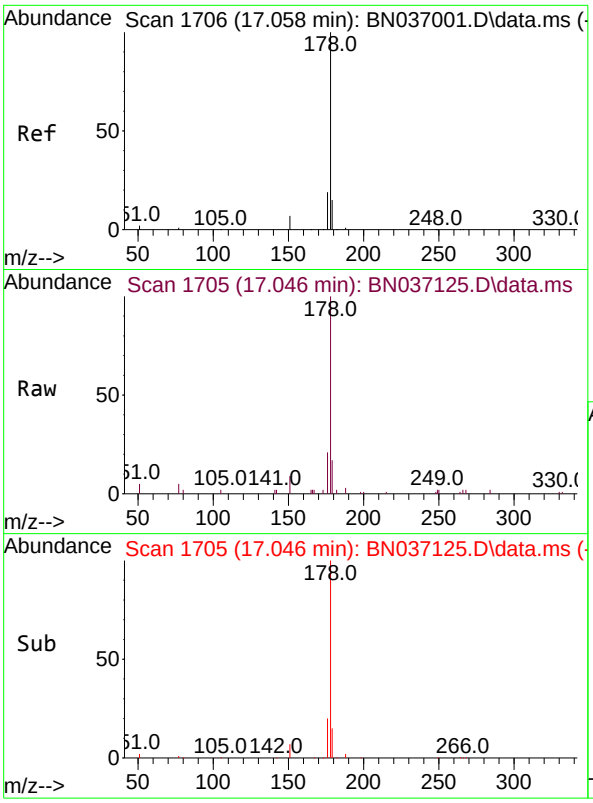


#24
Pentachlorophenol
Concen: 0.286 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:266 Resp: 431

Ion	Ratio	Lower	Upper
266	100		
264	64.7	47.9	71.9
268	80.0	50.0	75.0#

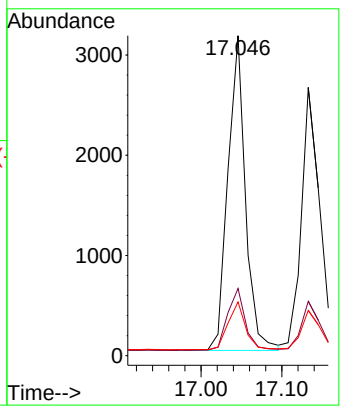




#25
Phenanthrene
Concen: 0.359 ng
RT: 17.046 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:178 Resp: 474

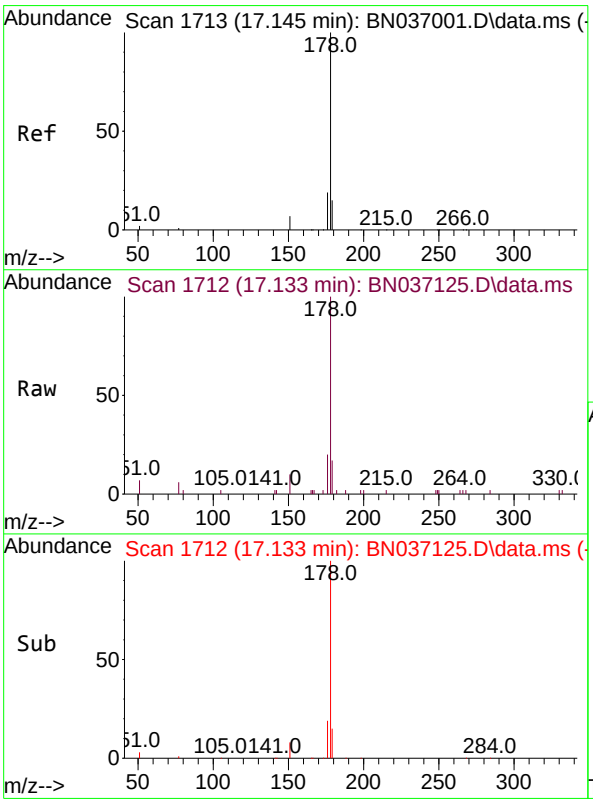
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.7	23.5
179	15.3	12.2	18.2



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
APPROVED

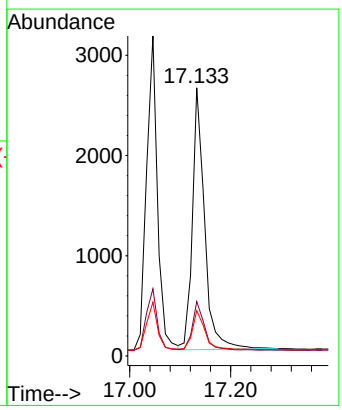
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

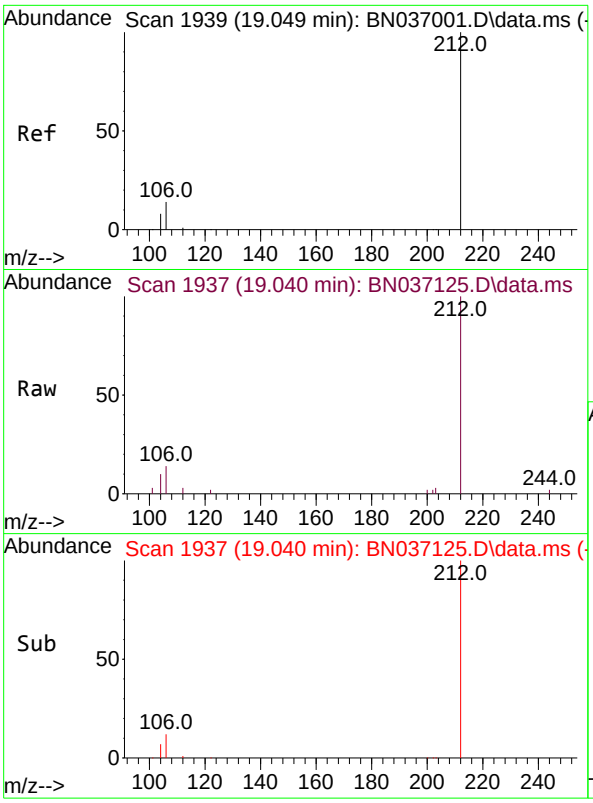


#26
Anthracene
Concen: 0.366 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:178 Resp: 4404

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.4	12.3	18.5

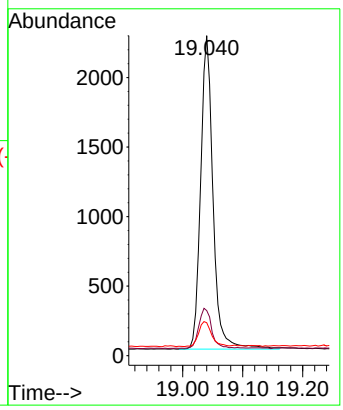




#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:212 Resp: 323

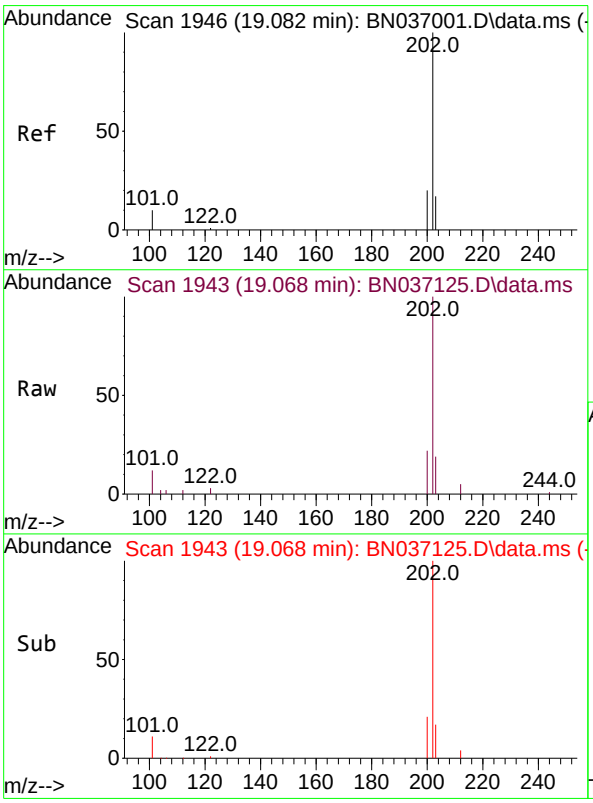
Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.3	16.9
104	8.3	6.7	10.1



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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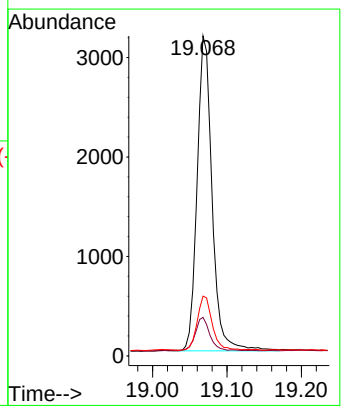
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

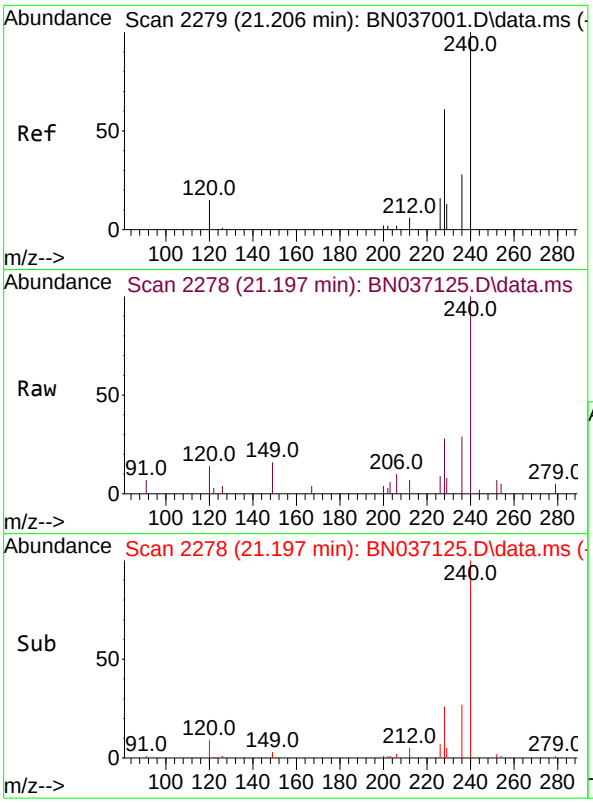


#28
Fluoranthene
Concen: 0.280 ng
RT: 19.068 min Scan# 1943
Delta R.T. -0.014 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:202 Resp: 4429

Ion	Ratio	Lower	Upper
202	100		
101	10.8	8.9	13.3
203	17.2	13.8	20.8

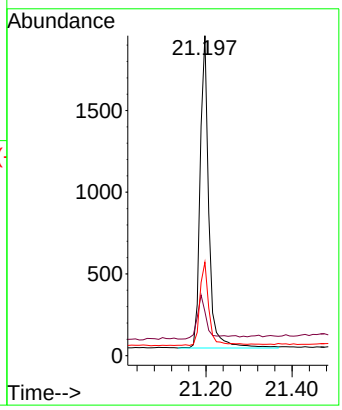




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.197 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:240 Resp: 268

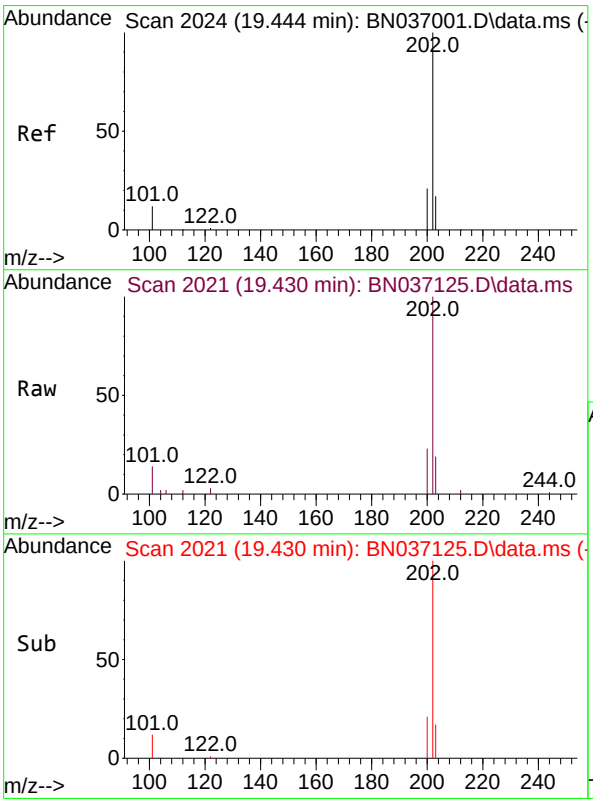
Ion	Ratio	Lower	Upper
240	100		
120	13.7	15.1	22.7#
236	29.2	24.0	36.0



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
APPROVED

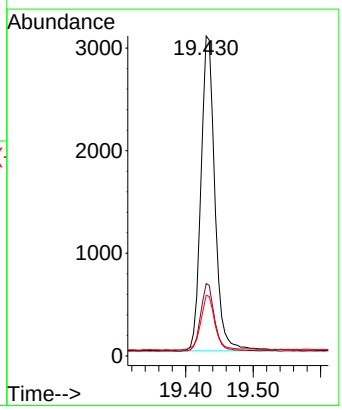
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

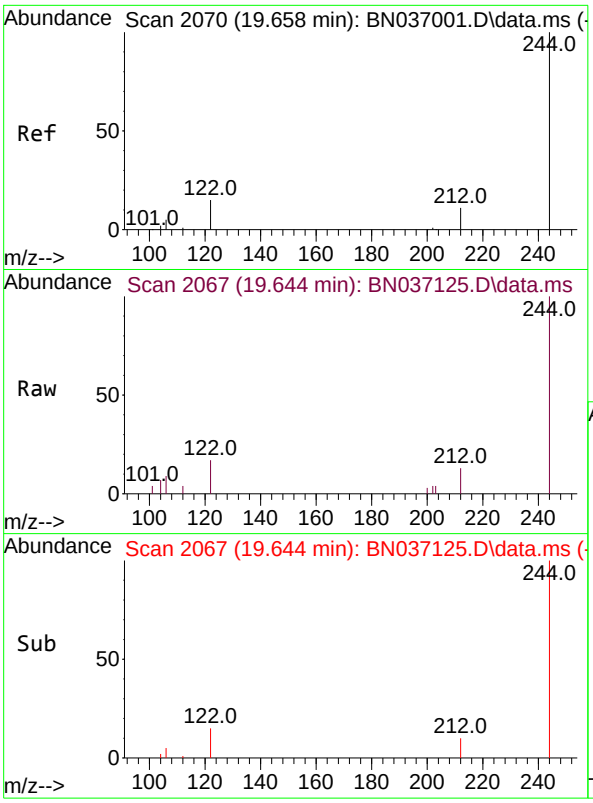


#30
Pyrene
Concen: 0.383 ng
RT: 19.430 min Scan# 2021
Delta R.T. -0.014 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:202 Resp: 4405

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.5	14.2	21.4

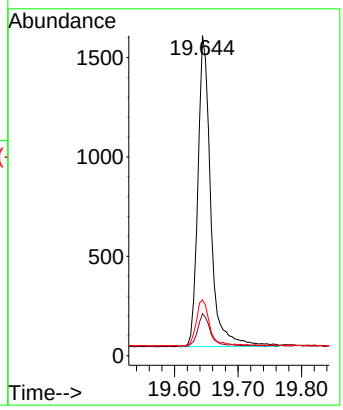




#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.644 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:244 Resp: 219

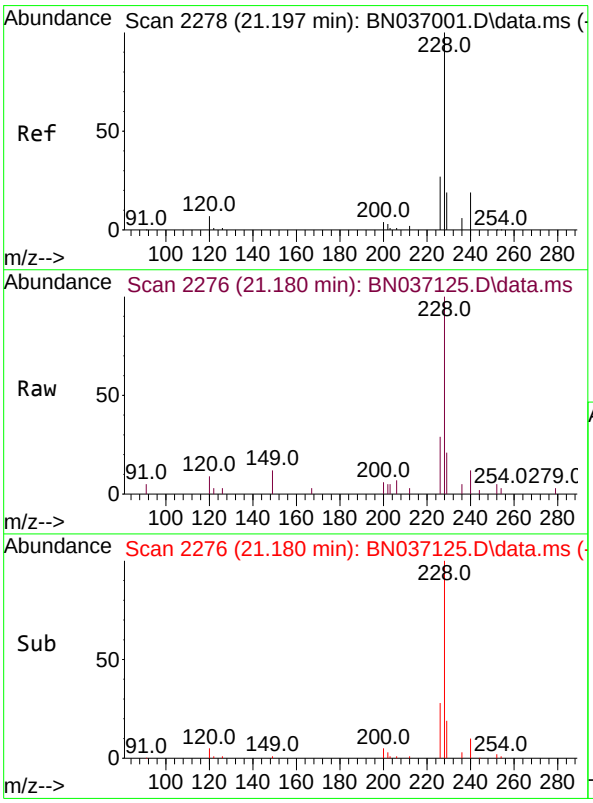
Ion	Ratio	Lower	Upper
244	100		
212	13.1	9.7	14.5
122	17.5	13.4	20.0



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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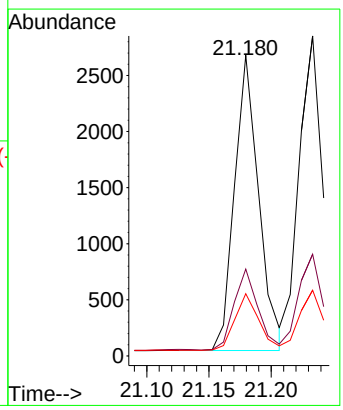
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

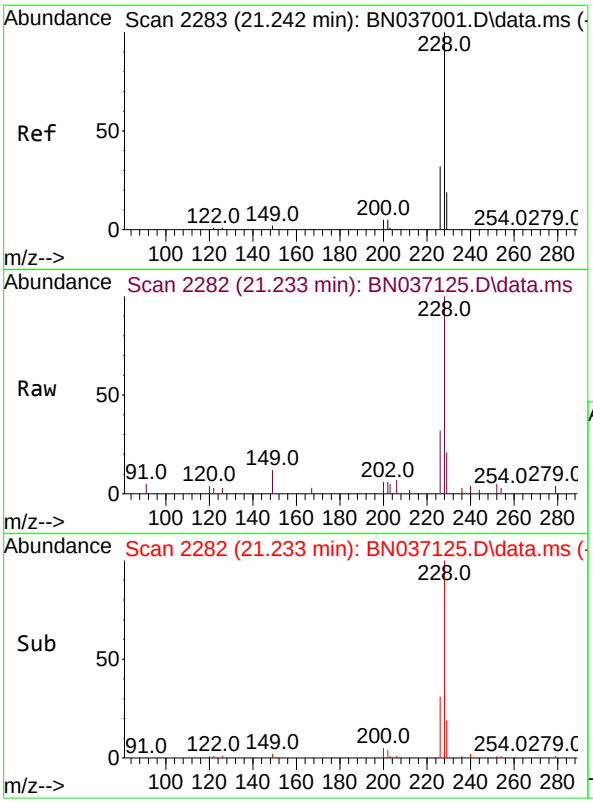


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.018 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:228 Resp: 3556

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.2	33.4
229	20.7	16.0	24.0

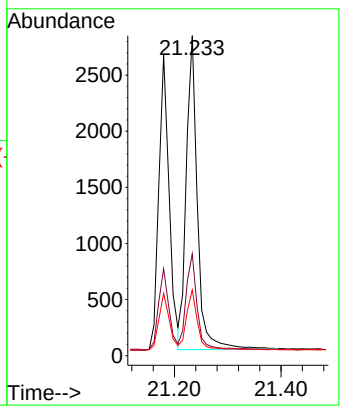




#33
Chrysene
Concen: 0.378 ng
RT: 21.233 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:228 Resp: 404

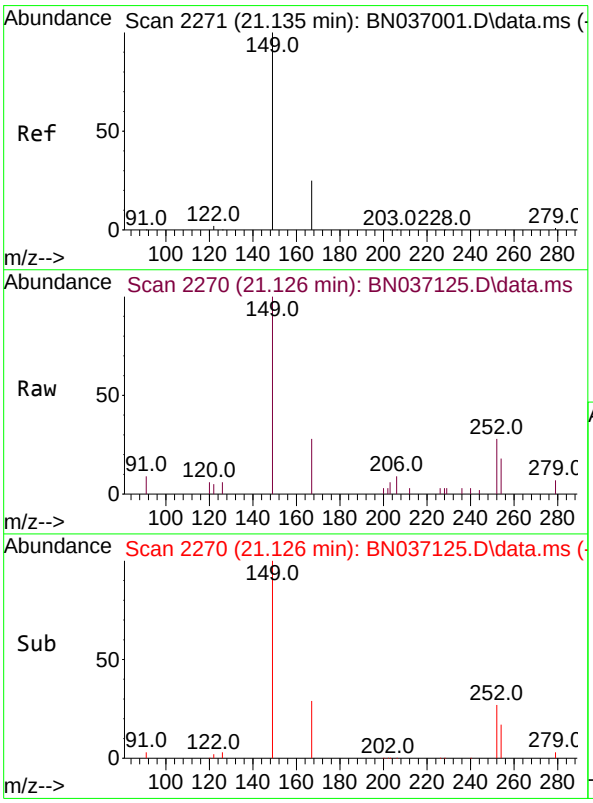
Ion	Ratio	Lower	Upper
228	100		
226	31.8	26.3	39.5
229	20.5	16.2	24.2



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
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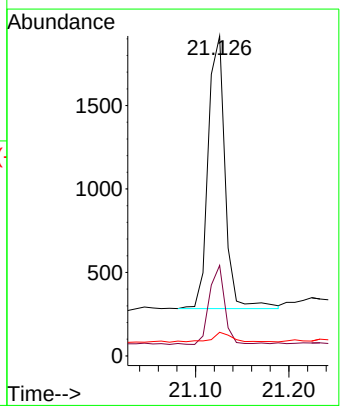
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

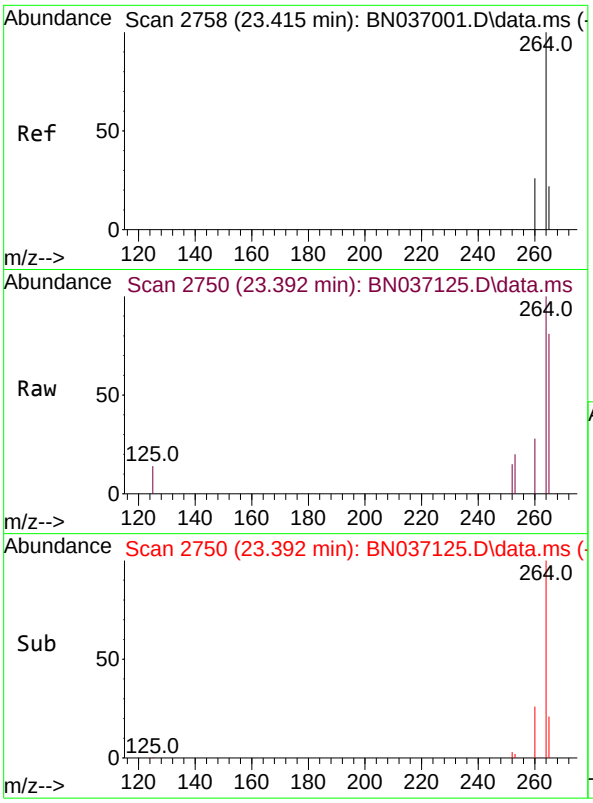


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.330 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:149 Resp: 2055

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.6	30.8
279	4.6	2.6	3.8#

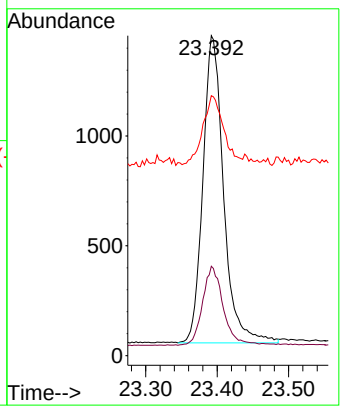




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.392 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:264 Resp: 281

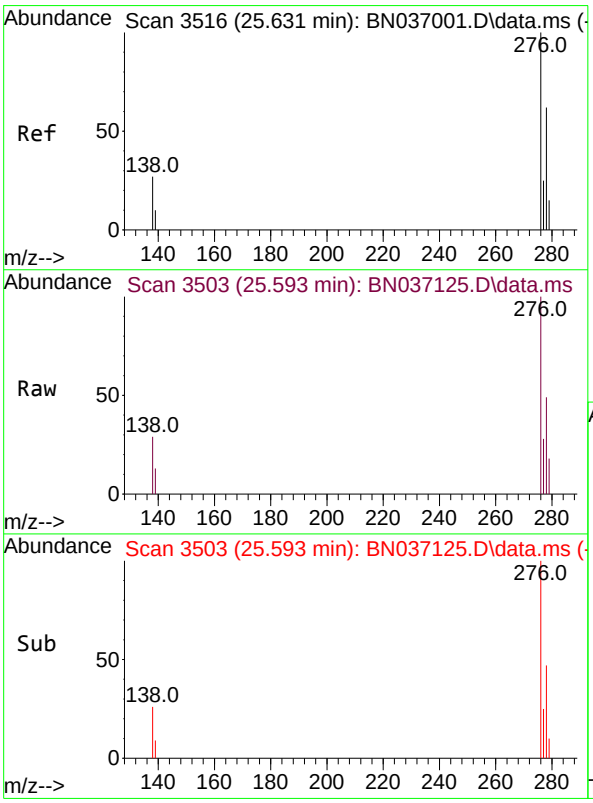
Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.9	32.9
265	81.3	51.6	77.4



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
APPROVED

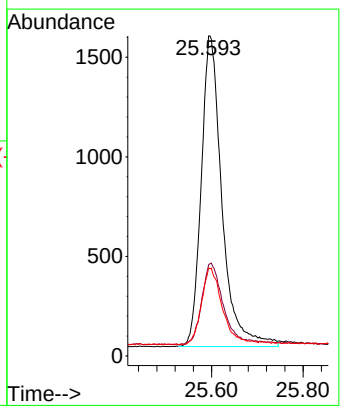
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

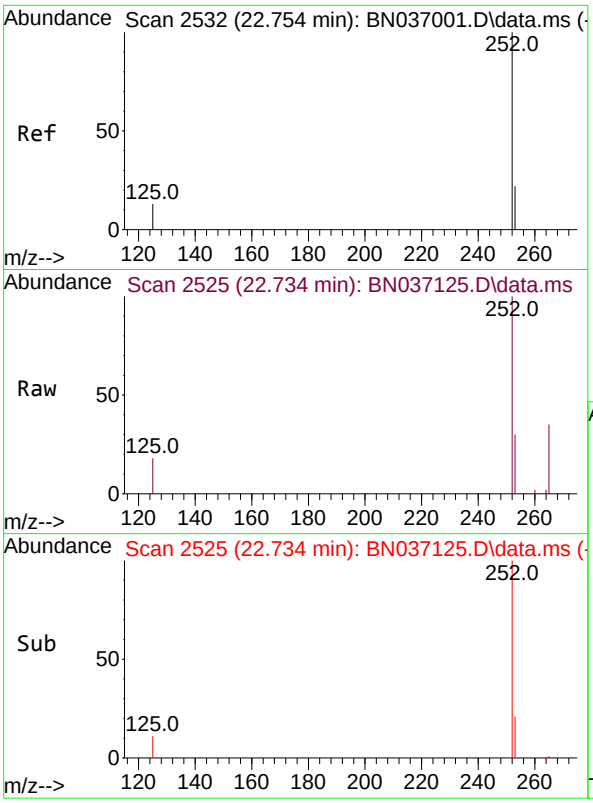


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.593 min Scan# 3503
Delta R.T. -0.038 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:276 Resp: 4915

Ion	Ratio	Lower	Upper
276	100		
138	26.3	22.7	34.1
277	24.3	20.0	30.0

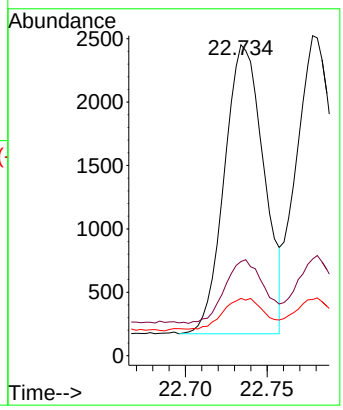




#37
Benzo(b)fluoranthene
Concen: 0.328 ng
RT: 22.734 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:252 Resp: 383

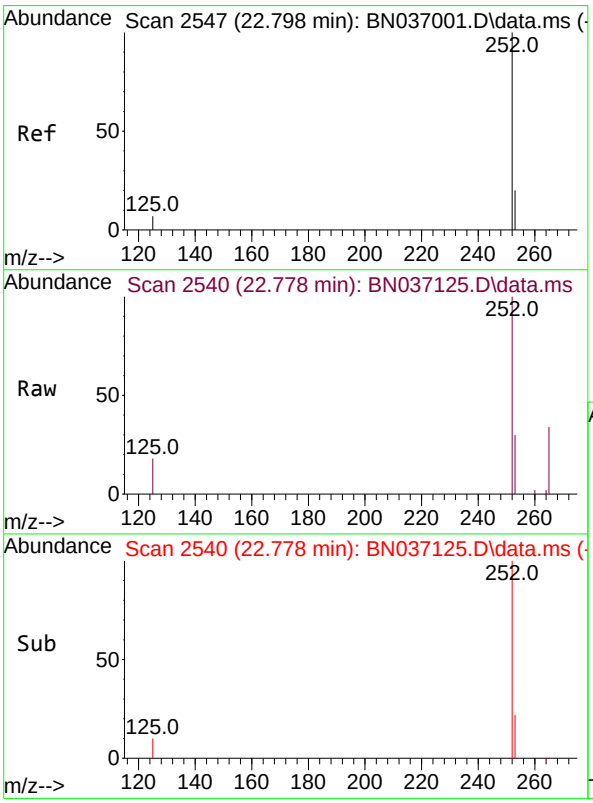
Ion	Ratio	Lower	Upper
252	100		
253	30.3	21.8	32.6
125	18.4	14.6	21.8



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
APPROVED

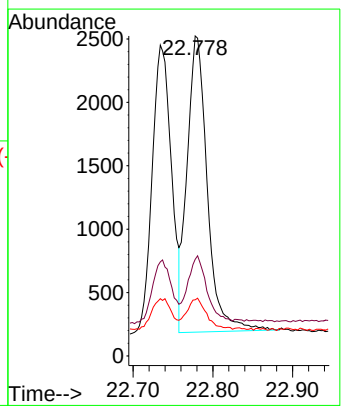
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

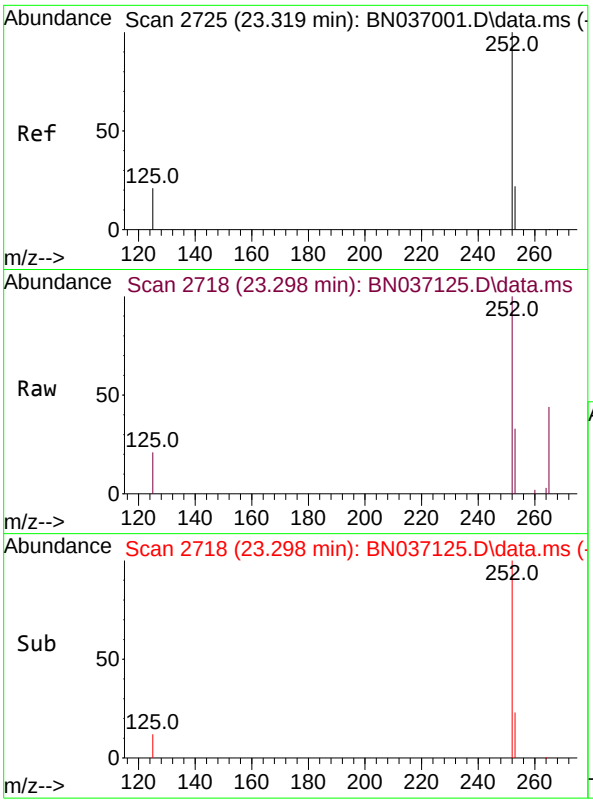


#38
Benzo(k)fluoranthene
Concen: 0.356 ng
RT: 22.778 min Scan# 2540
Delta R.T. -0.020 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:252 Resp: 4110

Ion	Ratio	Lower	Upper
252	100		
253	30.2	21.4	32.2
125	17.6	13.0	19.4

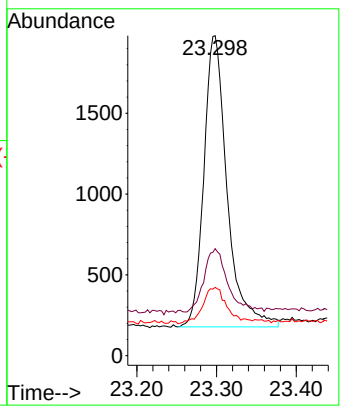




#39
Benzo(a)pyrene
Concen: 0.369 ng
RT: 23.298 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:252 Resp: 366

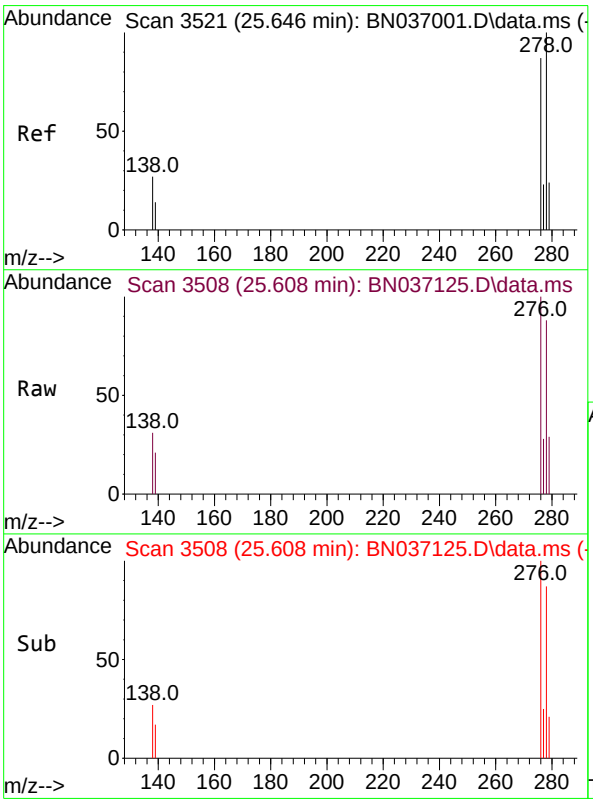
Ion	Ratio	Lower	Upper
252	100		
253	33.5	23.8	35.6
125	21.4	21.8	32.6



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
APPROVED

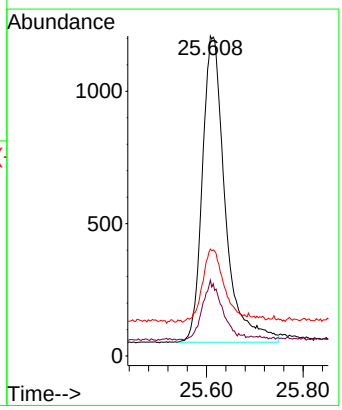
Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

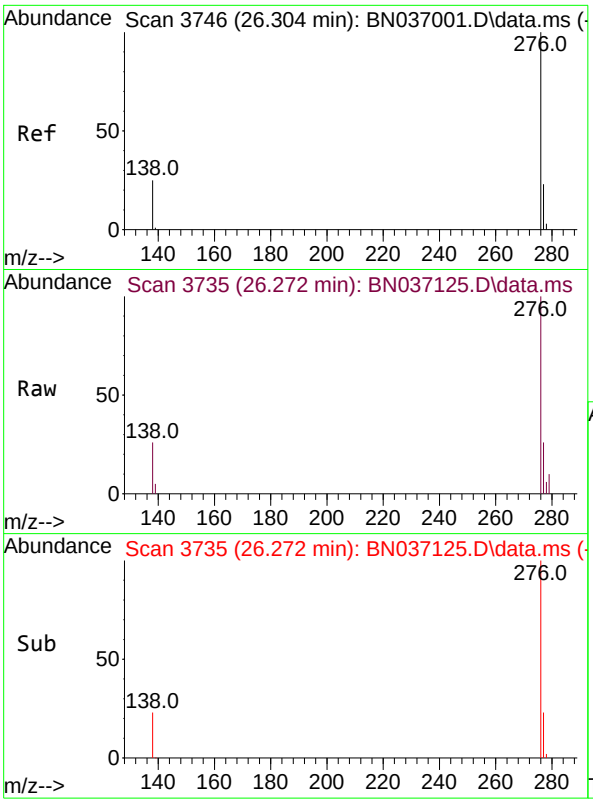


#40
Dibenzo(a,h)anthracene
Concen: 0.422 ng
RT: 25.608 min Scan# 3508
Delta R.T. -0.038 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:278 Resp: 3782

Ion	Ratio	Lower	Upper
278	100		
139	23.7	17.4	26.0
279	33.4	24.6	37.0

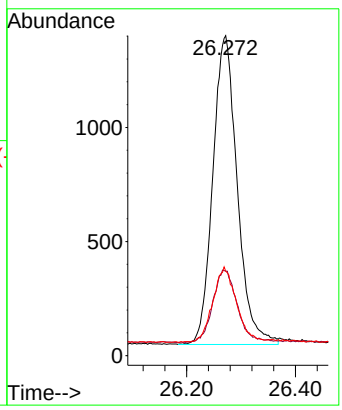




#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 26.272 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:276 Resp: 421

Ion	Ratio	Lower	Upper
276	100		
277	26.4	20.2	30.4
138	26.4	22.0	33.0



Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/29/2025
Supervised By :Jagrut Upadhyay 05/29/2025

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

Manual Integration Report

Sequence:	bn051425	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN037000.D	Benzo(b)fluoranthene	Rahul	5/15/2025 9:23:24 AM	Jagrut	5/15/2025 3:49:25 PM	Peak Integrated by Software
SSTDCCC0.4	BN037009.D	1,4-Dioxane	Rahul	5/15/2025 9:23:28 AM	Jagrut	5/15/2025 3:49:28 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN052825	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2082-04	BN037115.D	Phenanthrene	Rahul	5/29/2025 1:10:13 PM	Jagrut	5/29/2025 1:23:21 PM	Peak Integrated by Software
PB168100BS	BN037124.D	2-Methylnaphthalene-d10	Rahul	5/29/2025 1:10:16 PM	Jagrut	5/29/2025 1:23:23 PM	Peak Integrated by Software
PB168100BS	BN037124.D	Benzo(k)fluoranthene	Rahul	5/29/2025 1:10:16 PM	Jagrut	5/29/2025 1:23:23 PM	Peak Integrated by Software
PB168100BSD	BN037125.D	2-Methylnaphthalene-d10	Rahul	5/29/2025 1:10:18 PM	Jagrut	5/29/2025 1:23:26 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM		
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM		
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn051425

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	BN036998.D	13 May 2025 17:02	RC/JU	Ok
2	SSTDICC0.1	BN036999.D	13 May 2025 17:41	RC/JU	Ok
3	SSTDICC0.2	BN037000.D	13 May 2025 18:17	RC/JU	Ok,M
4	SSTDICCC0.4	BN037001.D	13 May 2025 18:53	RC/JU	Ok
5	SSTDICC0.8	BN037002.D	13 May 2025 19:29	RC/JU	Ok
6	SSTDICC1.6	BN037003.D	13 May 2025 20:05	RC/JU	Ok
7	SSTDICC3.2	BN037004.D	13 May 2025 20:41	RC/JU	Ok
8	SSTDICC5.0	BN037005.D	13 May 2025 21:17	RC/JU	Ok
9	SSTDICV0.4	BN037006.D	13 May 2025 22:29	RC/JU	Ok
10	PB167888BL	BN037007.D	13 May 2025 23:42	RC/JU	Not Ok
11	DFTPP	BN037008.D	14 May 2025 09:37	RC/JU	Ok
12	SSTDCCC0.4	BN037009.D	14 May 2025 10:31	RC/JU	Ok,M
13	PB167952BL	BN037010.D	14 May 2025 11:20	RC/JU	Ok
14	Q2000-01	BN037011.D	14 May 2025 12:03	RC/JU	Dilution
15	Q2000-01DL	BN037012.D	14 May 2025 13:29	RC/JU	Ok
16	Q1872-13	BN037013.D	14 May 2025 14:46	RC/JU	Dilution
17	Q1872-13DL	BN037014.D	14 May 2025 15:48	RC/JU	Ok,M
18	Q1985-01	BN037015.D	14 May 2025 16:48	RC/JU	Ok
19	Q2012-01	BN037016.D	14 May 2025 17:24	RC/JU	Dilution
20	Q2012-02	BN037017.D	14 May 2025 18:00	RC/JU	Ok
21	Q2012-03	BN037018.D	14 May 2025 18:36	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM		
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM		
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn051425

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	Q2013-02	BN037019.D	14 May 2025 19:12	RC/JU	Ok
23	Q2013-03	BN037020.D	14 May 2025 19:48	RC/JU	Ok
24	PB167952BS	BN037021.D	14 May 2025 20:24	RC/JU	Ok,M
25	PB167952BSD	BN037022.D	14 May 2025 21:00	RC/JU	Ok,M
26	SSTDCCC0.4	BN037023.D	14 May 2025 21:36	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN052825

Review By	Rahul	Review On	5/29/2025 1:10:50 PM		
Supervise By	Jagrut	Supervise On	5/29/2025 1:23:51 PM		
SubDirectory	BN052825	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn051425

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	BN037101.D	28 May 2025 10:02	RC/JU	Ok
2	SSTDCCC0.4	BN037102.D	28 May 2025 10:41	RC/JU	Ok
3	PB168155BL	BN037103.D	28 May 2025 11:17	RC/JU	Ok
4	Q2119-02	BN037104.D	28 May 2025 11:53	RC/JU	Ok
5	Q2119-03	BN037105.D	28 May 2025 12:29	RC/JU	Ok
6	Q2120-01	BN037106.D	28 May 2025 13:05	RC/JU	Ok
7	Q2120-02	BN037107.D	28 May 2025 13:41	RC/JU	Ok
8	PB168155BS	BN037108.D	28 May 2025 14:17	RC/JU	Ok,M
9	PB168155BSD	BN037109.D	28 May 2025 14:53	RC/JU	Ok,M
10	SSTDCCC0.4	BN037110.D	28 May 2025 15:54	RC/JU	Ok
11	DFTPP	BN037111.D	28 May 2025 16:31	RC/JU	Ok
12	SSTDCCC0.4	BN037112.D	28 May 2025 17:11	RC/JU	Ok
13	PB168100BL	BN037113.D	28 May 2025 17:47	RC/JU	Ok
14	Q2082-02	BN037114.D	28 May 2025 18:23	RC/JU	Ok
15	Q2082-04	BN037115.D	28 May 2025 18:59	RC/JU	Ok,M
16	Q2082-06	BN037116.D	28 May 2025 19:35	RC/JU	Ok
17	Q2082-08	BN037117.D	28 May 2025 20:11	RC/JU	Ok
18	Q2082-12	BN037118.D	28 May 2025 20:47	RC/JU	Ok
19	Q2118-02	BN037119.D	28 May 2025 21:23	RC/JU	Ok
20	Q2118-05	BN037120.D	28 May 2025 21:59	RC/JU	Ok
21	Q2118-07	BN037121.D	28 May 2025 22:35	RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN052825

Review By	Rahul	Review On	5/29/2025 1:10:50 PM		
Supervise By	Jagrut	Supervise On	5/29/2025 1:23:51 PM		
SubDirectory	BN052825	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn051425

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	Q2118-09	BN037122.D	28 May 2025 23:11	RC/JU	ReRun
23	Q2119-01	BN037123.D	28 May 2025 23:47	RC/JU	Ok
24	PB168100BS	BN037124.D	29 May 2025 00:23	RC/JU	Ok,M
25	PB168100BSD	BN037125.D	29 May 2025 00:59	RC/JU	Ok,M
26	SSTDCCC0.4	BN037126.D	29 May 2025 01:35	RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM	
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM	
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn051425

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	BN036998.D	13 May 2025 17:02		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036999.D	13 May 2025 17:41	Compound #02,04,05,20 removed from 0.1ppm	RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037000.D	13 May 2025 18:17		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN037001.D	13 May 2025 18:53	Compound #20 kept on QR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037002.D	13 May 2025 19:29		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037003.D	13 May 2025 20:05		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037004.D	13 May 2025 20:41		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037005.D	13 May 2025 21:17		RC/JU	Ok
9	SSTDICV0.4	ICVBN051424	BN037006.D	13 May 2025 22:29		RC/JU	Ok
10	PB167888BL	PB167888BL	BN037007.D	13 May 2025 23:42	Analyzed for contamination check	RC/JU	Not Ok
11	DFTPP	DFTPP	BN037008.D	14 May 2025 09:37		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4	BN037009.D	14 May 2025 10:31		RC/JU	Ok,M
13	PB167952BL	PB167952BL	BN037010.D	14 May 2025 11:20		RC/JU	Ok
14	Q2000-01	38072-062223	BN037011.D	14 May 2025 12:03	PT Sample, Need 50X Dilution	RC/JU	Dilution
15	Q2000-01DL	38072-062223DL	BN037012.D	14 May 2025 13:29		RC/JU	Ok
16	Q1872-13	HW0425-PT-PAH-SOIL	BN037013.D	14 May 2025 14:46	PT Sample, Need 10X Dilution	RC/JU	Dilution
17	Q1872-13DL	HW0425-PT-PAH-SOIL	BN037014.D	14 May 2025 15:48		RC/JU	Ok,M

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM	
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM	
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn051425

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	Q1985-01	RW8-BW-20250507	BN037015.D	14 May 2025 16:48		RC/JU	Ok
19	Q2012-01	RW5-SP100-20250509	BN037016.D	14 May 2025 17:24	Need 2X Dilution	RC/JU	Dilution
20	Q2012-02	RW5-SP201-20250509	BN037017.D	14 May 2025 18:00		RC/JU	Ok
21	Q2012-03	RW5-SP303-20250509	BN037018.D	14 May 2025 18:36		RC/JU	Ok,M
22	Q2013-02	BP-TT192D2-GW-2025	BN037019.D	14 May 2025 19:12		RC/JU	Ok
23	Q2013-03	BP-TT192D1-GW-2025	BN037020.D	14 May 2025 19:48		RC/JU	Ok
24	PB167952BS	PB167952BS	BN037021.D	14 May 2025 20:24		RC/JU	Ok,M
25	PB167952BSD	PB167952BSD	BN037022.D	14 May 2025 21:00		RC/JU	Ok,M
26	SSTDCCC0.4	SSTDCCC0.4EC	BN037023.D	14 May 2025 21:36		RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN052825

Review By	Rahul	Review On	5/29/2025 1:10:50 PM	
Supervise By	Jagrut	Supervise On	5/29/2025 1:23:51 PM	
SubDirectory	BN052825	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn051425

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	BN037101.D	28 May 2025 10:02		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037102.D	28 May 2025 10:41		RC/JU	Ok
3	PB168155BL	PB168155BL	BN037103.D	28 May 2025 11:17		RC/JU	Ok
4	Q2119-02	RW5-SP201-20250522	BN037104.D	28 May 2025 11:53		RC/JU	Ok
5	Q2119-03	RW5-SP303-20250522	BN037105.D	28 May 2025 12:29		RC/JU	Ok
6	Q2120-01	VPB182-HYD-2025052	BN037106.D	28 May 2025 13:05		RC/JU	Ok
7	Q2120-02	BP-VPB-182-EB-20250	BN037107.D	28 May 2025 13:41		RC/JU	Ok
8	PB168155BS	PB168155BS	BN037108.D	28 May 2025 14:17		RC/JU	Ok,M
9	PB168155BSD	PB168155BSD	BN037109.D	28 May 2025 14:53		RC/JU	Ok,M
10	SSTDCCC0.4	SSTDCCC0.4EC	BN037110.D	28 May 2025 15:54		RC/JU	Ok
11	DFTPP	DFTPP	BN037111.D	28 May 2025 16:31		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4	BN037112.D	28 May 2025 17:11		RC/JU	Ok
13	PB168100BL	PB168100BL	BN037113.D	28 May 2025 17:47		RC/JU	Ok
14	Q2082-02	BP-VPB-182-GW-260-2	BN037114.D	28 May 2025 18:23		RC/JU	Ok
15	Q2082-04	BP-VPB-182-GW-300-3	BN037115.D	28 May 2025 18:59		RC/JU	Ok,M
16	Q2082-06	BP-VPB-182-GW-340-3	BN037116.D	28 May 2025 19:35		RC/JU	Ok
17	Q2082-08	BP-VPB-182-GW-390-3	BN037117.D	28 May 2025 20:11		RC/JU	Ok
18	Q2082-12	VPB182-HYD-2025051	BN037118.D	28 May 2025 20:47		RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN052825

Review By	Rahul	Review On	5/29/2025 1:10:50 PM	
Supervise By	Jagrut	Supervise On	5/29/2025 1:23:51 PM	
SubDirectory	BN052825	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn051425

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	

19	Q2118-02	BP-VPB-182-GW-420-4	BN037119.D	28 May 2025 21:23		RC/JU	Ok
20	Q2118-05	BP-VPB-182-GW-460-4	BN037120.D	28 May 2025 21:59		RC/JU	Ok
21	Q2118-07	BP-VPB-182-GW-500-5	BN037121.D	28 May 2025 22:35		RC/JU	Ok
22	Q2118-09	BP-VPB-182-GW-540-5	BN037122.D	28 May 2025 23:11	Internal Standard Fail	RC/JU	ReRun
23	Q2119-01	RW5-SP100-20250522	BN037123.D	28 May 2025 23:47		RC/JU	Ok
24	PB168100BS	PB168100BS	BN037124.D	29 May 2025 00:23		RC/JU	Ok,M
25	PB168100BSD	PB168100BSD	BN037125.D	29 May 2025 00:59		RC/JU	Ok,M
26	SSTDCCC0.4	SSTDCCC0.4EC	BN037126.D	29 May 2025 01:35		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168100

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/21/2025
Matrix :	Water			**Extraction Start Time :**	08:41
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	05/21/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	13:40
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	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	E3930
Baked Na2SO4	N/A	EP2614
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, Q2082-02 Limited volume received.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/21/25	RS (E34-165)	RC/SVOC
12:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168100

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 05/21/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168100BL	SBLK100	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			SEP-10
PB168100BS	SLCS100	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			11
PB168100BSD	SLCSD100	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			12
Q2073-01	GDW1	SVOC-SIMGroup1	980	6	RUPESH	ritesh	1	D		13
Q2073-02	GDW2	SVOC-SIMGroup1	960	6	RUPESH	ritesh	1	D		14
Q2082-02	BP-VPB-182-GW-260-262	SVOC-SIMGroup1	520	6	RUPESH	ritesh	1	C		15
Q2082-04	BP-VPB-182-GW-300-302	SVOC-SIMGroup1	990	6	RUPESH	ritesh	1	C		16
Q2082-06	BP-VPB-182-GW-340-342	SVOC-SIMGroup1	850	6	RUPESH	ritesh	1	C		SEP-1
Q2082-08	BP-VPB-182-GW-390-392	SVOC-SIMGroup1	890	6	RUPESH	ritesh	1	C		2
Q2082-12	VPB182-HYD-20250516	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	C		3

RS
5/21

* **Extracts relinquished on the same date as received.**

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2082 **WorkList ID :** 189665 **Department :** Extraction **Date :** 05-21-2025 08:35:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2073-01	GDW1	Water	SVOC-SIMGroup1	Cool 4 deg C	GENV01	L41	05/16/2025	8270-Modified
Q2073-02	GDW2	Water	SVOC-SIMGroup1	Cool 4 deg C	GENV01	L41	05/16/2025	8270-Modified
Q2082-02	BP-VPB-182-GW-260-262	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/15/2025	8270-Modified
Q2082-04	BP-VPB-182-GW-300-302	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/15/2025	8270-Modified
Q2082-06	BP-VPB-182-GW-340-342	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/16/2025	8270-Modified
Q2082-08	BP-VPB-182-GW-390-392	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/19/2025	8270-Modified
Q2082-12	VPB182-HYD-20250516	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/16/2025	8270-Modified

Date/Time 5/21/25 8:36
Raw Sample Received by: RJ (EXT lab)
Raw Sample Relinquished by: CR SM

Date/Time 5/21/25 9:20
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RJ (EXT lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q2082

Test : SVOC-SIMGroup1

Prepbatch ID : PB168100,

Sequence ID/Qc Batch ID: BN052825,

Standard ID :
EP2609,EP2610,EP2614,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,E3930,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	EP2614	05/19/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/19/2025

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	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	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)	25A0262002	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

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

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

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

E3930

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

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities - Sodium (Na)	<= 500.0 ppb	<5.0 ppb
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities - Tin (Sn)	<= 5.0 ppb	1.1 ppb
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	<1.0 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

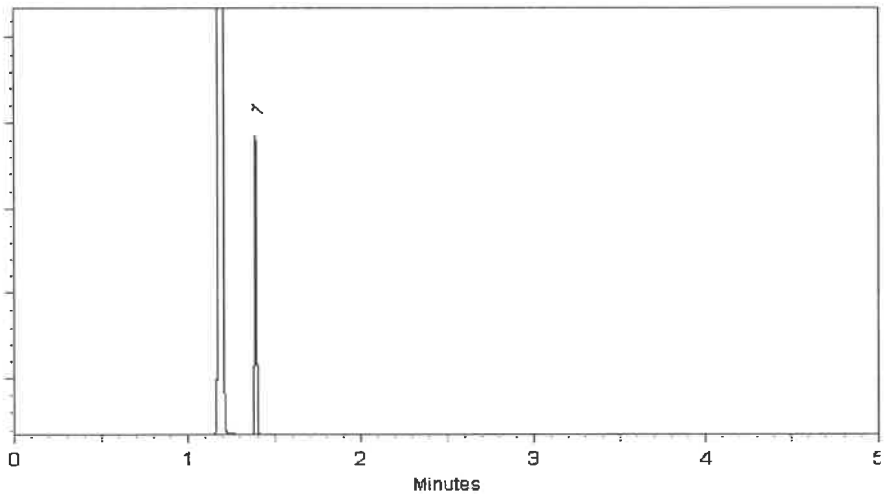
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

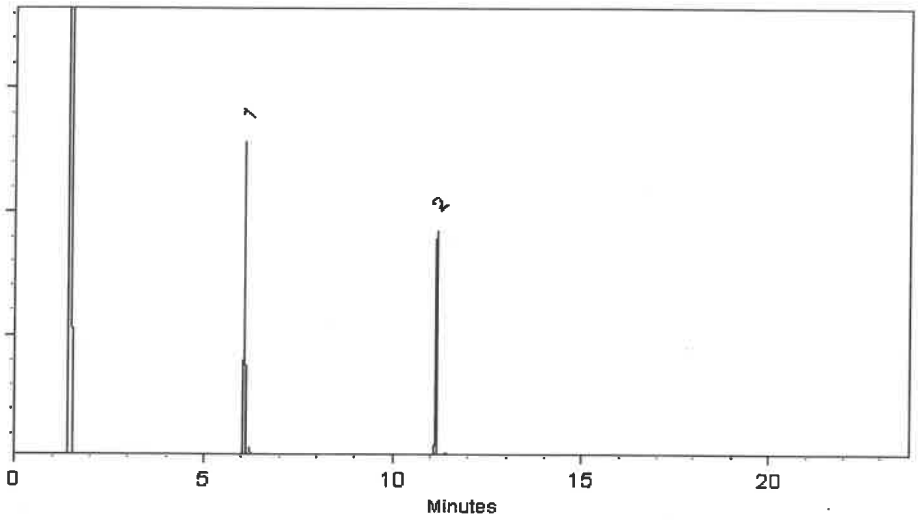
Inj. Temp:
250°C

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.

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:_____

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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Catalog No. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

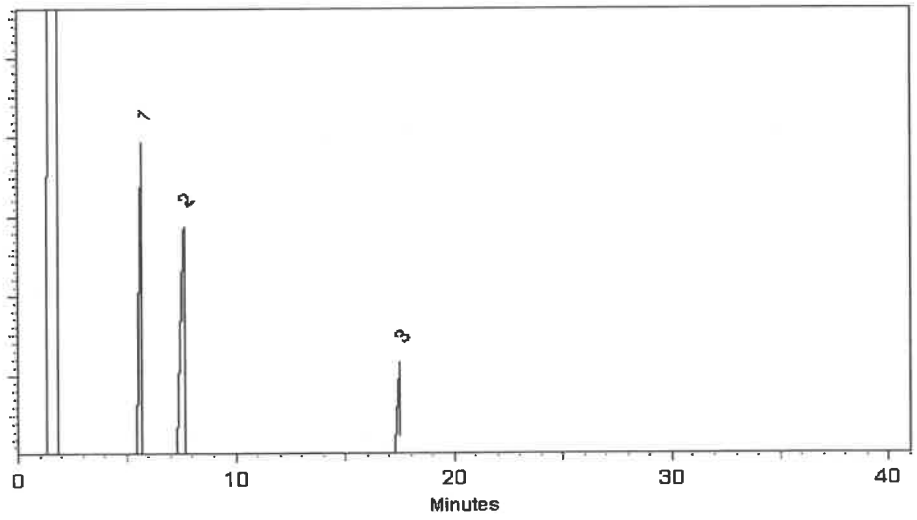
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

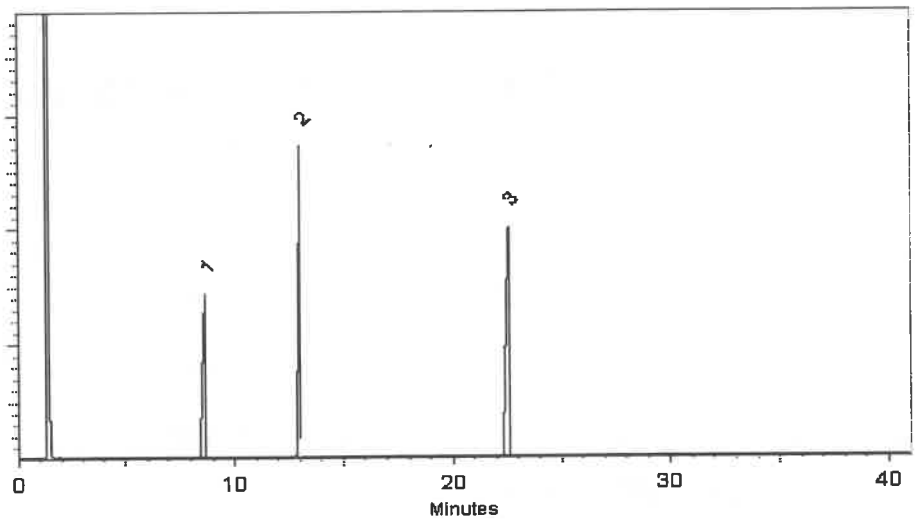
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

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Certificate of Analysis

gravimetric

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Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

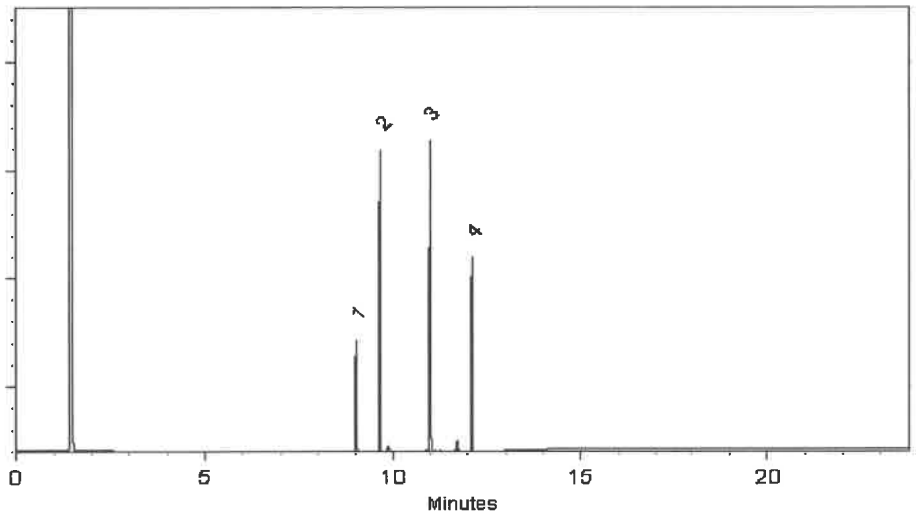
Inj. Temp:
250°C

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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12280 → S12284 RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q2082/83

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-182
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD 2 & 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

1	2	3	4	5	6	7	8	9
VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)	1,4 Dioxane (522 PREC)						

PRESERVATIVES

1	2	3	4	5	6	7	8	9
A		F						

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9	COMMENTS
1.	BP-VPB-182-TB-20250515	QA		X	5/15/25	8:00	2	2									Trip Blank
2.	BP-VPB-182-GW-260-262	AQ		X	5/15/25	10:27	3	2	1								
3.	BP-VPB-182-GW-280-282	AQ		X	5/15/25	12:36	3	2									
4.	BP-VPB-182-GW-300-302	AQ		X	5/15/25	14:25	3	2	1								
5.	BP-VPB-182-GW-320-322	AQ		X	5/16/25	10:11	3	2									
6.	BP-VPB-182-GW-340-342	AQ		X	5/16/25	12:00	3	2	1								
7.	BP-VPB-182-GW-360-362	AQ		X	5/16/26	14:10	3	2									
8.	BP-VPB-182-GW-390-392	AQ		X	5/19/25	12:15	3	2	1								
9.	BP-VPB-182-GW-400-402	QA		X	5/19/25	14:15	6	6									8260 B MS/MSD
10.	VPB182-HYD-20250516	QA		X	5/16/25	14:30	5	2	1	2							Hydrant Sample

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME		
RELINQUISHED BY SAMPLER 1.	5/19/25 1530	RECEIVED BY 1.	1610 5-19-25
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.	
RELINQUISHED BY 3.	DATE/TIME 5-19-25 1830	RECEIVED FOR LAB BY 3.	

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 2.2 C
q Ice in
MeOH extraction requires an additional 4oz. Jar for percent solid
Cooler?:
Comments: 48hr TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list
10-DAY TAT - For 1,4 Dioxane (8270 SIM)

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2082 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 5/19/2025 4:13:00 PM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 5/19/2025 ~~12:00:00~~ AM
Purchase Order : 18:30

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q2082-01	~~BP-TB-20250515~~ BP-VPB-182-TB-20250515	Water	05/15/2025	08:00	VOCMS Group1		8260-Low	~~10~~ Bus. Days	2 day tat	
Q2082-02	BP-VPB-182-GW-260-262	Water	05/15/2025	10:27	VOCMS Group1		8260-Low	10 Bus. Days		
Q2082-03	BP-VPB-182-GW-280-282	Water	05/15/2025	12:36	VOCMS Group1		8260-Low	~~1~~0 Bus. Days		
Q2082-04	BP-VPB-182-GW-300-302	Water	05/15/2025	14:25	VOCMS Group1		8260-Low	~~10~~ Bus. Days		
Q2082-05	BP-VPB-182-GW-320-322	Water	05/16/2025	10:11	VOCMS Group1		8260-Low	~~10~~ Bus. Days		
Q2082-07	BP-VPB-182-GW-360-362	Water	05/16/2025	14:10	VOCMS Group1		8260-Low	~~10~~ Bus. Days		
Q2082-08	BP-VPB-182-GW-390-392	Water	05/19/2025	12:15	VOCMS Group1		8260-Low	~~10~~ Bus. Days		
Q2082-09	BP-VPB-182-GW-400-402	Water	05/19/2025	14:15						

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	2 day tat	
Q2082-10	Q2082-09MS	Water	05/19/2025	14:15						
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2082-11	Q2082-09MSD	Water	05/19/2025	14:15						
					VOCMS Group1		8260-Low	~~10~~ Bus. Days		
Q2082-12	VPB182-HYD-20250516	Water	05/16/2025	14:30						
					VOCMS Group1		8260-Low	10 Bus. Days		

Relinguished By :
Date / Time : 5/20/25 1147

Received By : Sam
Date / Time : 05/20/25 11:47

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037000.D
Acq On : 13 May 2025 18:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: May 14 11:00:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.618	152	2140	0.400	ng		0.00
7) Naphthalene-d8	10.404	136	5637	0.400	ng		0.00
13) Acenaphthene-d10	14.266	164	3174	0.400	ng		0.00
19) Phenanthrene-d10	17.009	188	6255	0.400	ng		0.00
29) Chrysene-d12	21.206	240	5420	0.400	ng		0.00
35) Perylene-d12	23.415	264	5487	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.213	112	1178	0.210	ng		0.00
5) Phenol-d6	6.795	99	1395	0.199	ng		0.00
8) Nitrobenzene-d5	8.771	82	1080	0.176	ng		0.00
11) 2-Methylnaphthalene-d10	11.996	152	1543	0.194	ng		0.00
14) 2,4,6-Tribromophenol	15.767	330	267	0.192	ng		0.00
15) 2-Fluorobiphenyl	12.888	172	2858	0.197	ng		0.00
27) Fluoranthene-d10	19.049	212	3232	0.188	ng		0.00
31) Terphenyl-d14	19.658	244	2287	0.197	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.140	88	546	0.208	ng		97
3) n-Nitrosodimethylamine	3.458	42	1042	0.185	ng	#	95
6) bis(2-Chloroethyl)ether	7.048	93	1244	0.193	ng		99
9) Naphthalene	10.447	128	3213	0.193	ng		99
10) Hexachlorobutadiene	10.746	225	698	0.200	ng	#	99
12) 2-Methylnaphthalene	12.072	142	2041	0.191	ng		99
16) Acenaphthylene	13.978	152	2917	0.189	ng		99
17) Acenaphthene	14.331	154	1950	0.193	ng		99
18) Fluorene	15.325	166	2509	0.189	ng		99
20) 4,6-Dinitro-2-methylph...	15.410	198	187	0.167	ng	#	48
21) 4-Bromophenyl-phenylether	16.214	248	770	0.195	ng		99
22) Hexachlorobenzene	16.326	284	840	0.199	ng		98
23) Atrazine	16.487	200	647	0.188	ng		98
24) Pentachlorophenol	16.673	266	419	0.178	ng		98
25) Phenanthrene	17.058	178	3977	0.195	ng		100
26) Anthracene	17.145	178	3452	0.186	ng		99
28) Fluoranthene	19.082	202	4499	0.184	ng		99
30) Pyrene	19.444	202	4629	0.200	ng		100
32) Benzo(a)anthracene	21.197	228	3882	0.190	ng		98
33) Chrysene	21.251	228	4226	0.196	ng		98
34) Bis(2-ethylhexyl)phtha...	21.135	149	2490	0.198	ng		99
36) Indeno(1,2,3-cd)pyrene	25.628	276	4426	0.198	ng		99
37) Benzo(b)fluoranthene	22.798	252	4219	0.185	ng		93
38) Benzo(k)fluoranthene	22.798	252	4219	0.188	ng	#	91
39) Benzo(a)pyrene	23.322	252	3685	0.191	ng	#	88
40) Dibenzo(a,h)anthracene	25.646	278	3380	0.194	ng		94
41) Benzo(g,h,i)perylene	26.301	276	3861	0.204	ng		96

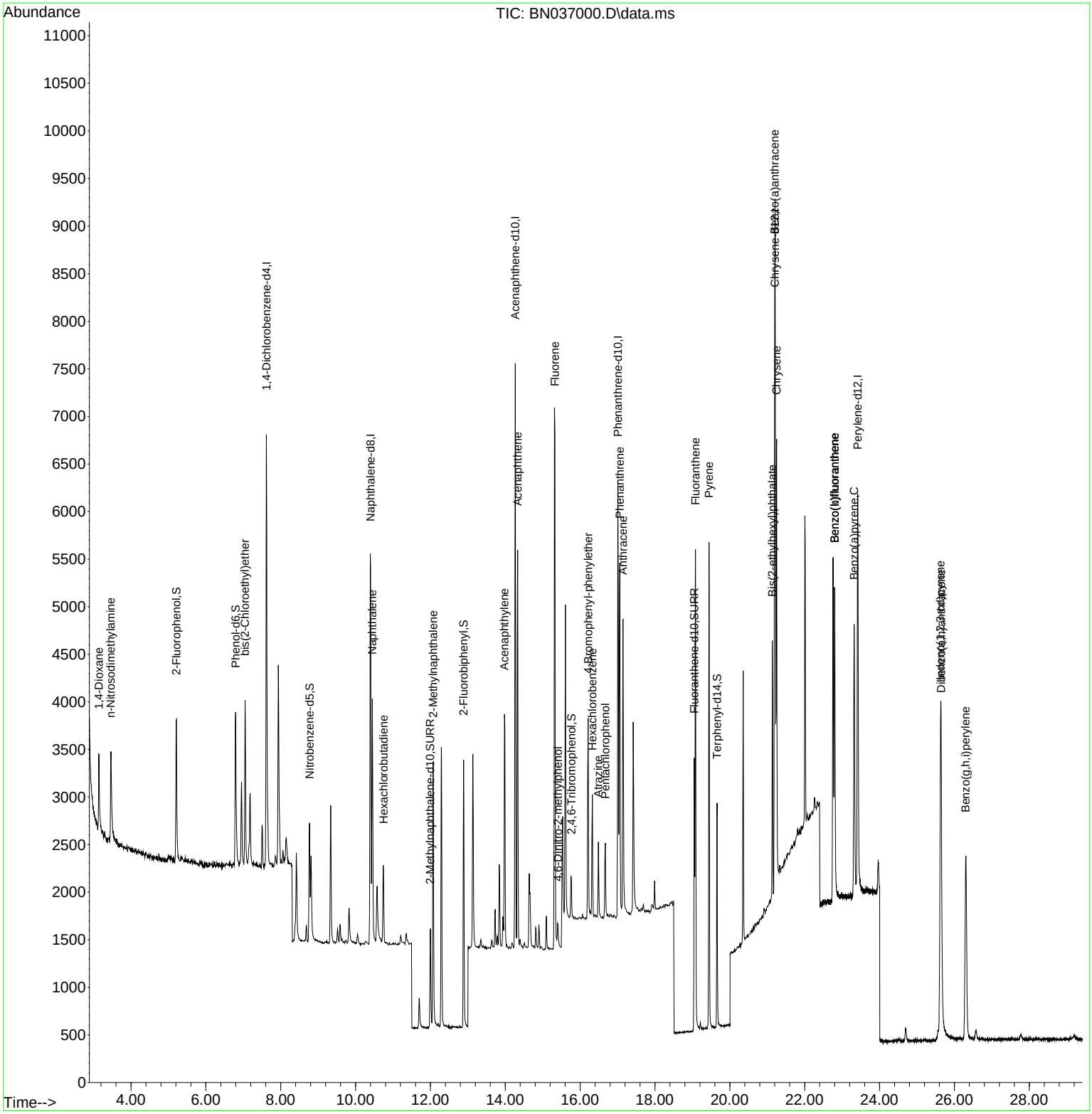
(#) = qualifier out of range (m) = manual integration (+) = signals summed

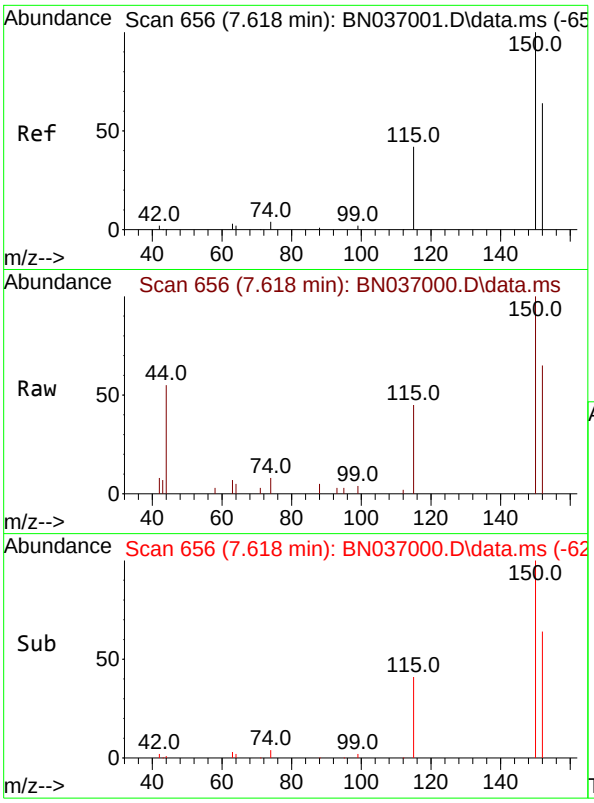
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037000.D
Acq On : 13 May 2025 18:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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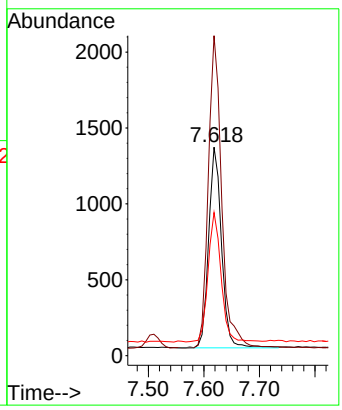


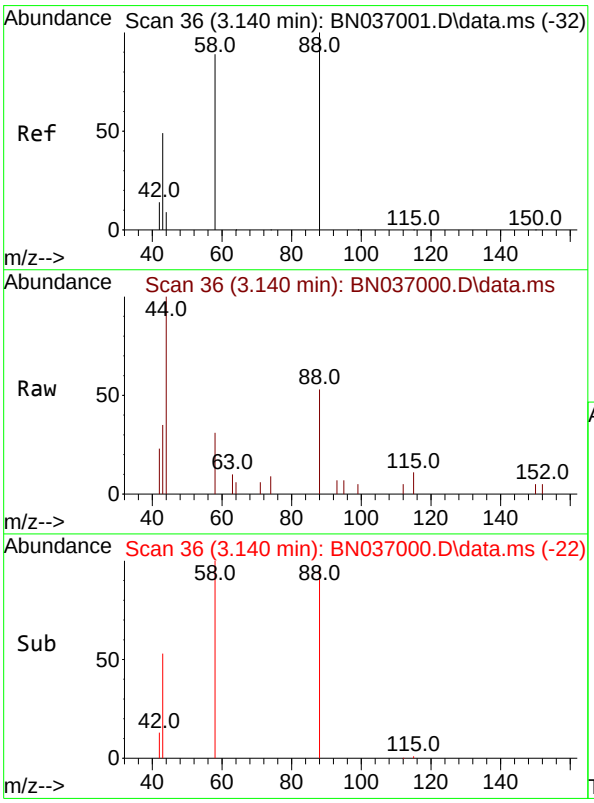
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2140

Ion	Ratio	Lower	Upper
152	100		
150	153.5	123.9	185.9
115	68.7	55.8	83.8

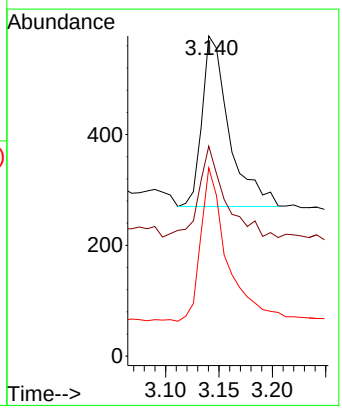


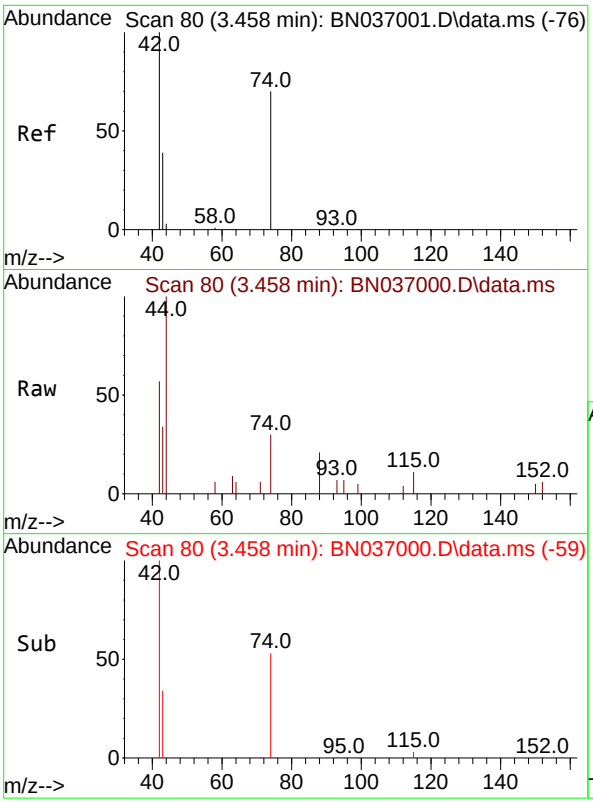


#2
1,4-Dioxane
Concen: 0.208 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 88 Resp: 546

Ion	Ratio	Lower	Upper
88	100		
43	52.4	37.4	56.0
58	85.7	68.8	103.2



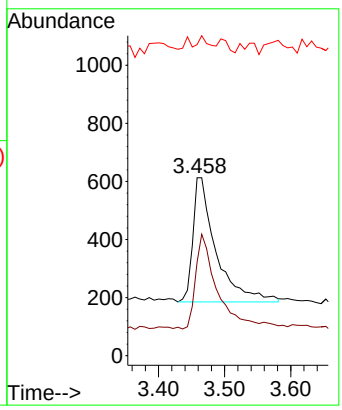


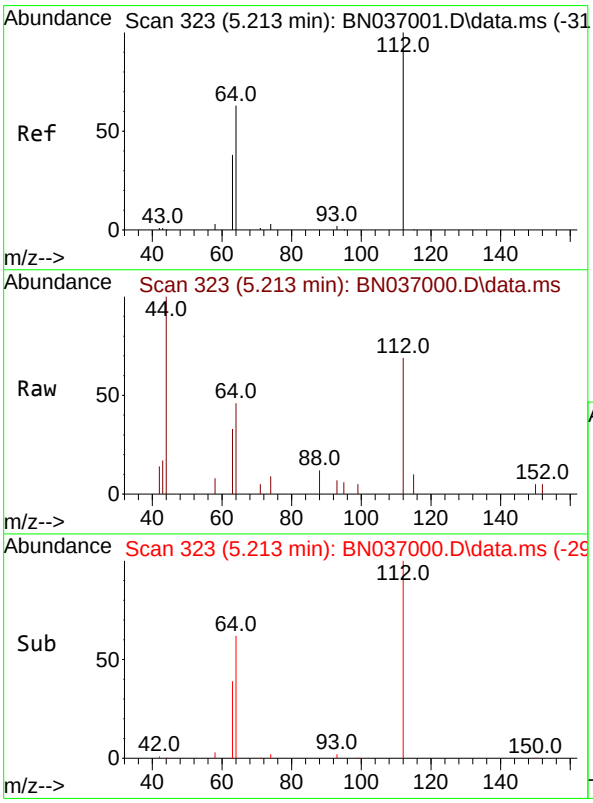
#3
n-Nitrosodimethylamine
Concen: 0.185 ng
RT: 3.458 min Scan# 8
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1042

Ion	Ratio	Lower	Upper
42	100		
74	72.6	59.8	89.6
44	7.5	11.9	17.9#

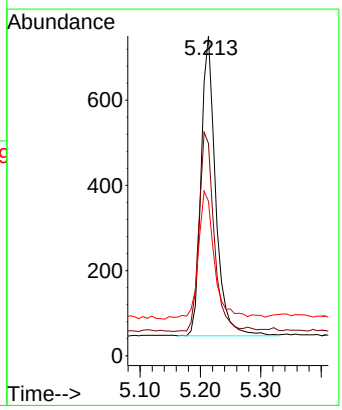


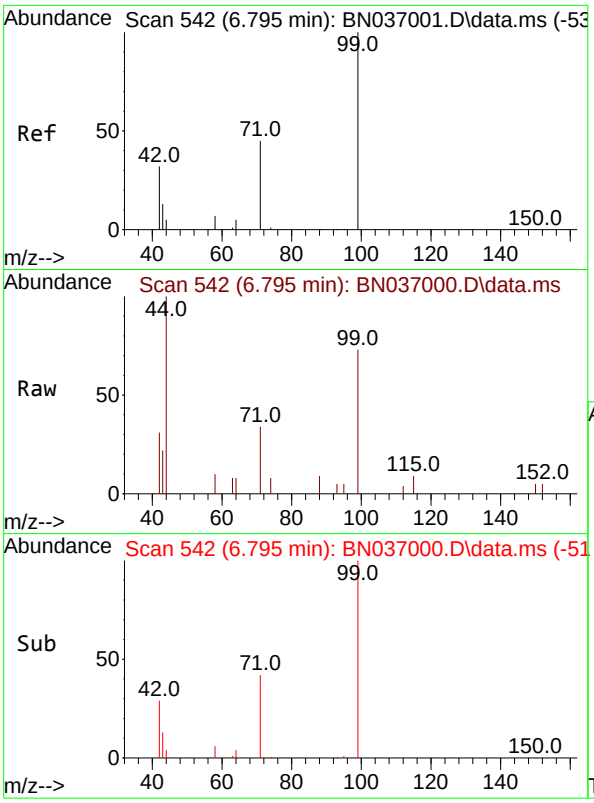


#4
2-Fluorophenol
Concen: 0.210 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:112 Resp: 1178

Ion	Ratio	Lower	Upper
112	100		
64	68.7	55.7	83.5
63	47.2	34.6	51.8



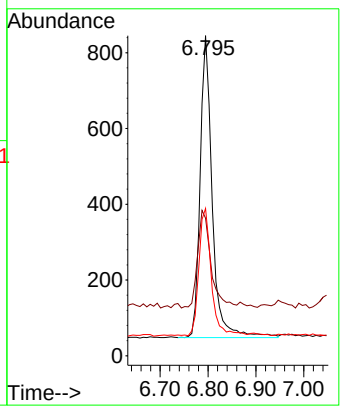


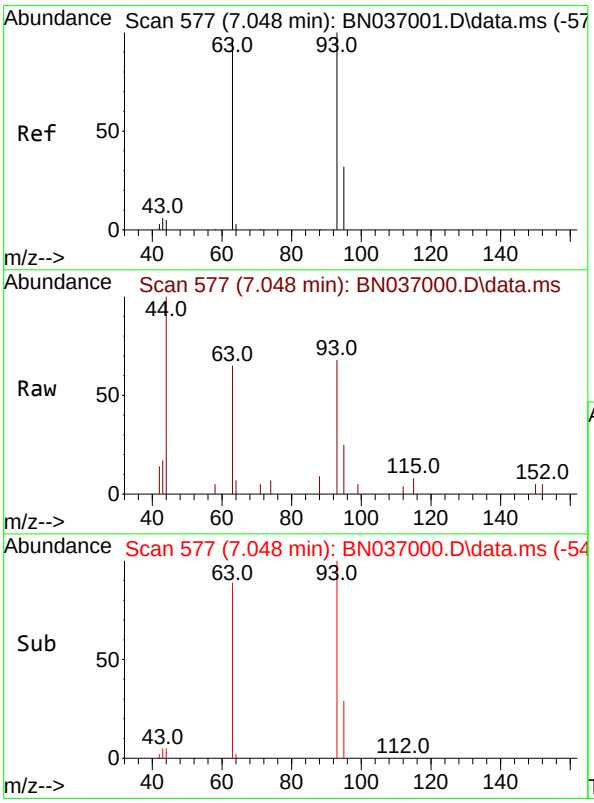
#5
Phenol-d6
Concen: 0.199 ng
RT: 6.795 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1395

Ion	Ratio	Lower	Upper
99	100		
42	34.2	29.3	43.9
71	42.7	35.7	53.5

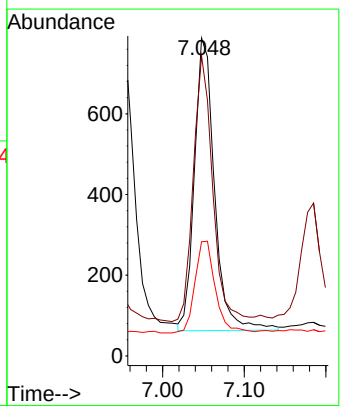


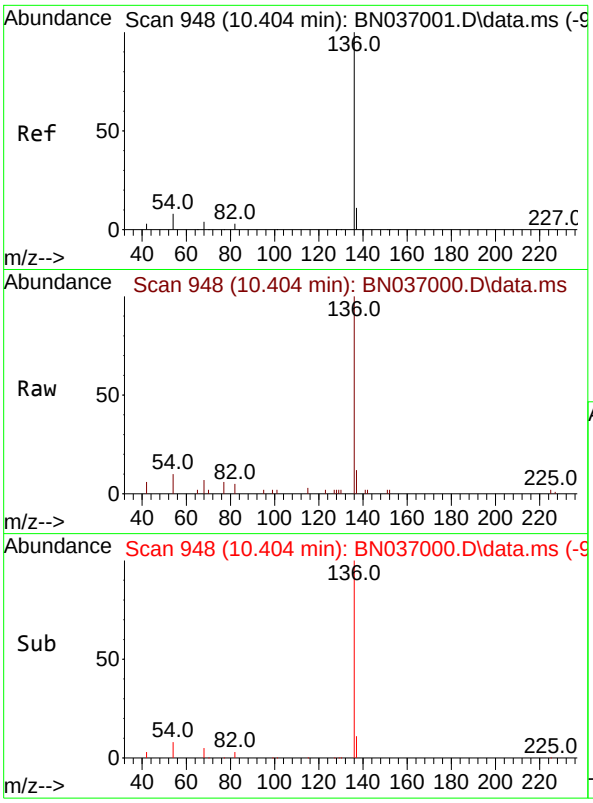


#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.048 min Scan# 577
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 93 Resp: 1244

Ion	Ratio	Lower	Upper
93	100		
63	86.9	70.1	105.1
95	31.8	26.2	39.2



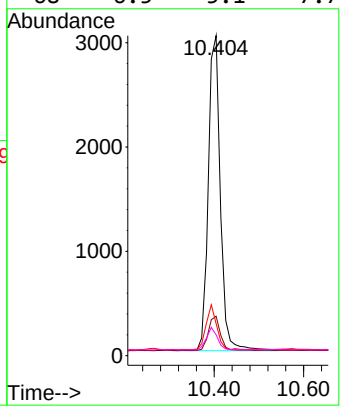


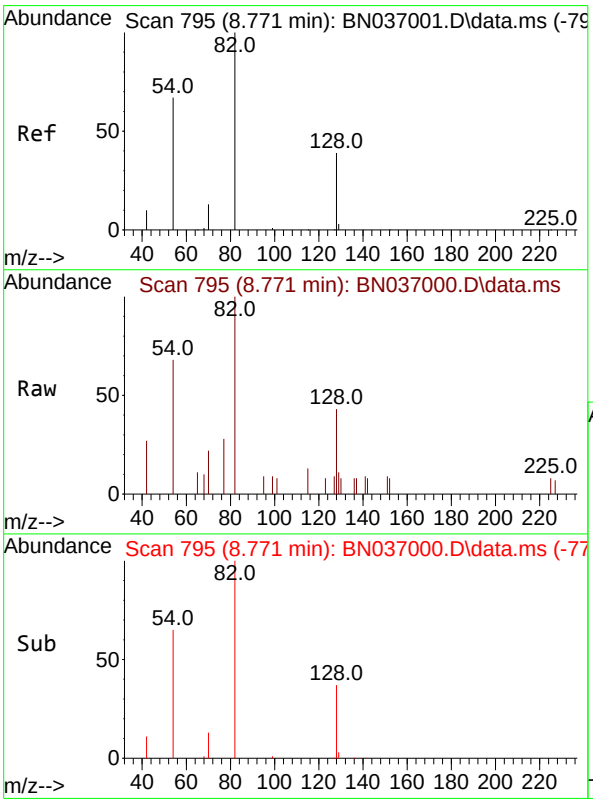
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5637

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.4	15.6
54	10.0	8.5	12.7
68	6.5	5.1	7.7

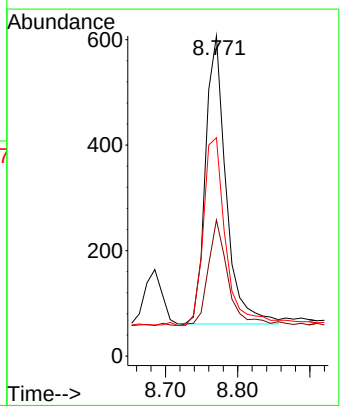


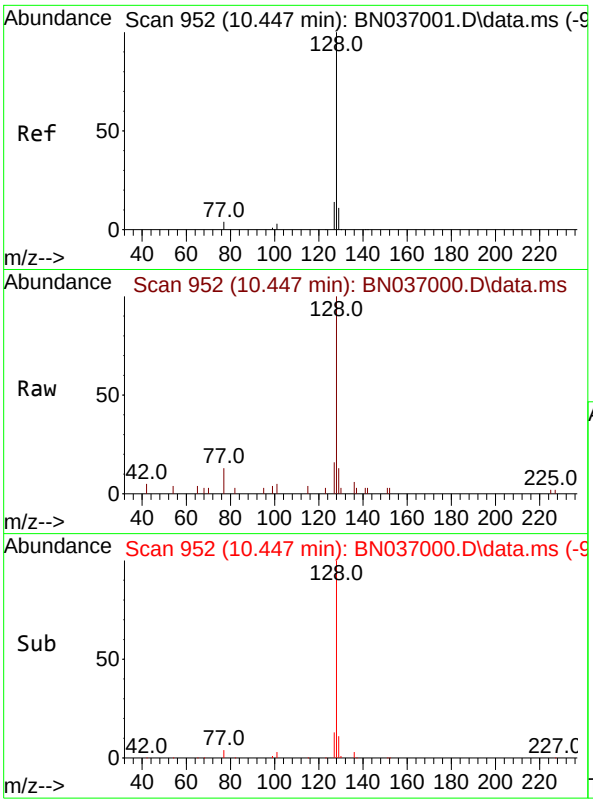


#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 82 Resp: 1080

Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	68.2	55.0	82.4



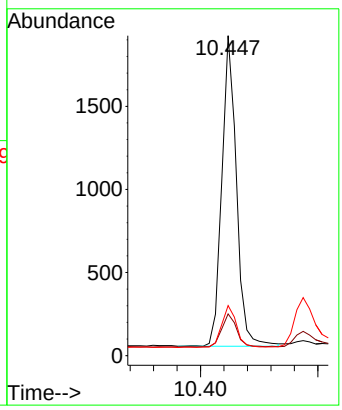


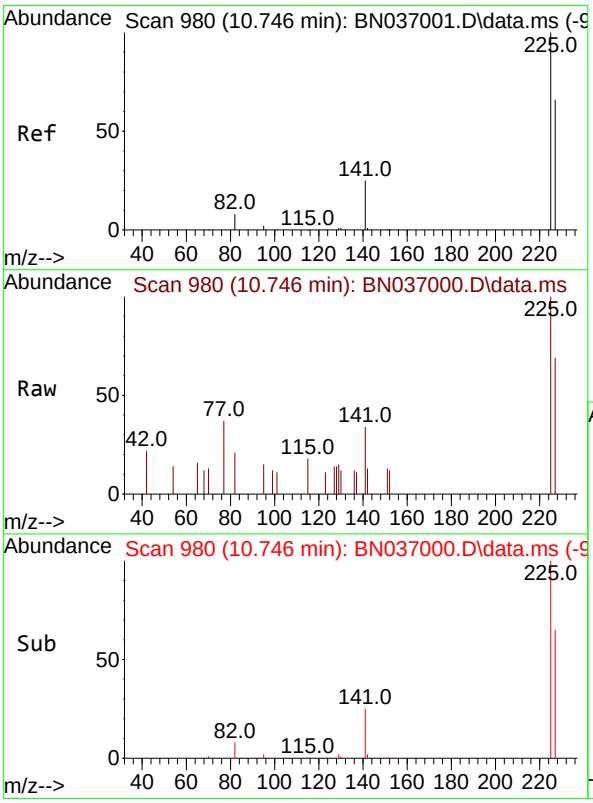
#9
Naphthalene
Concen: 0.193 ng
RT: 10.447 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 3213

Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.7	14.5
127	15.6	12.4	18.6

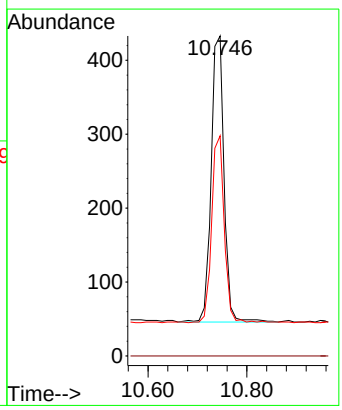


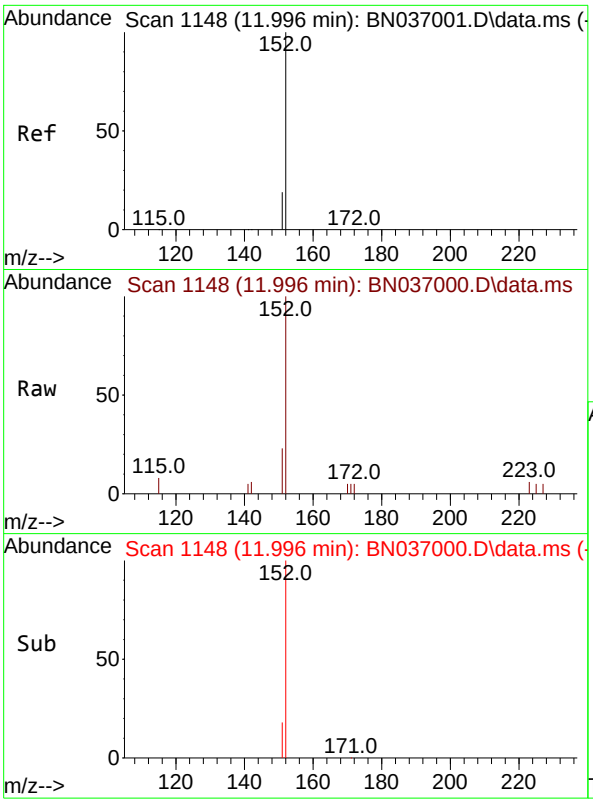


#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:225 Resp: 698

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	50.9	76.3



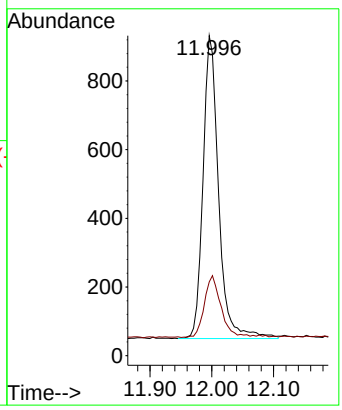


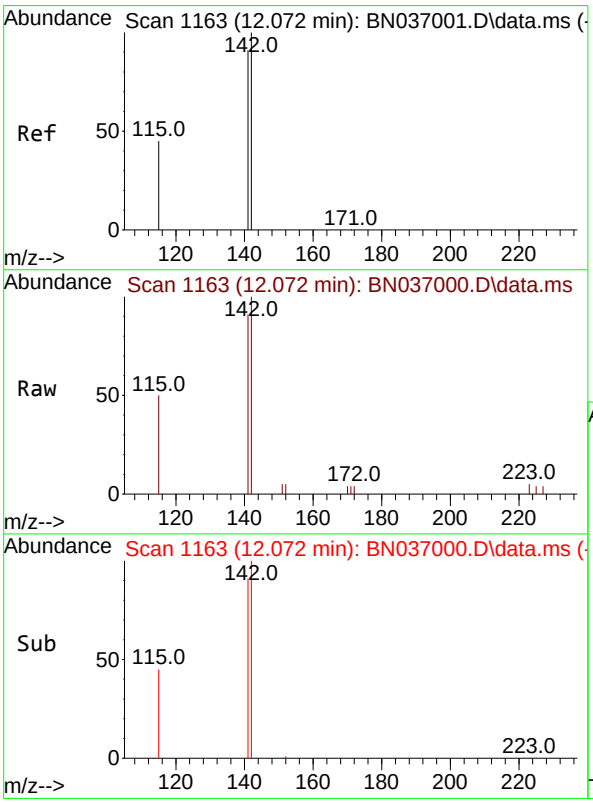
#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 11.996 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1543

Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.5	26.3

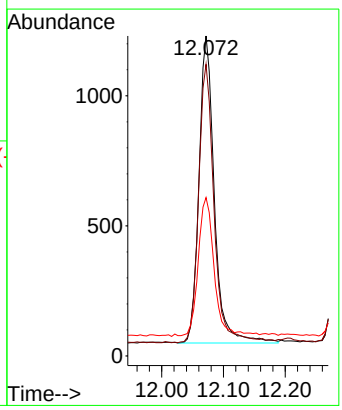


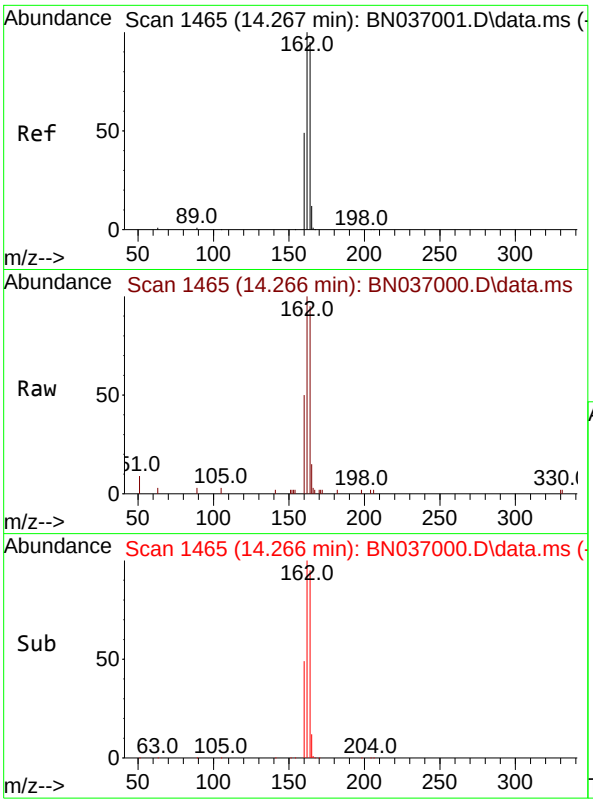


#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:142 Resp: 2041

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.3	109.9
115	49.5	38.4	57.6



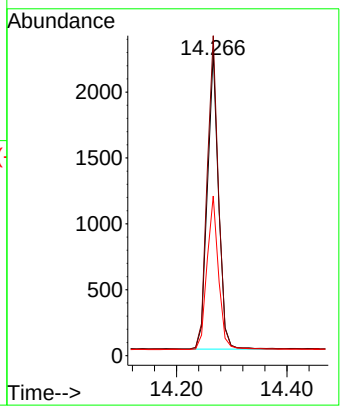


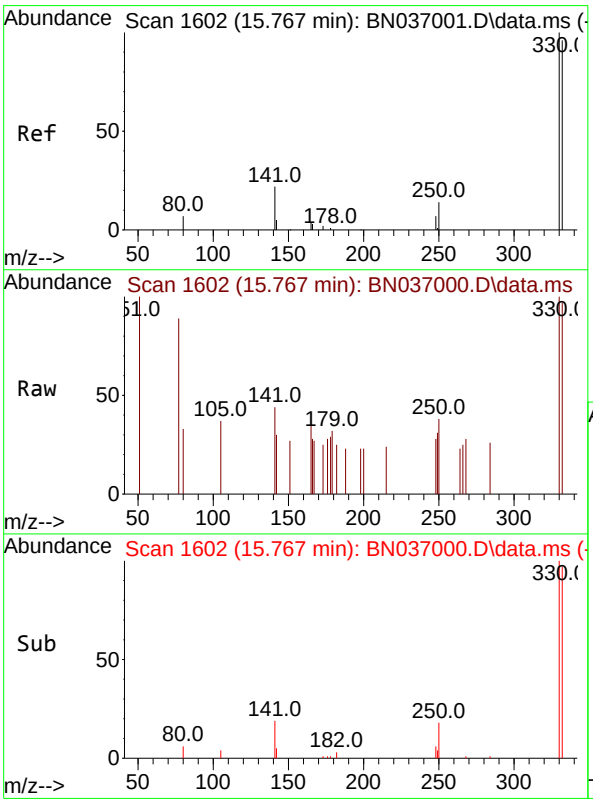
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3174

Ion	Ratio	Lower	Upper
164	100		
162	105.4	84.2	126.4
160	52.6	42.6	63.8

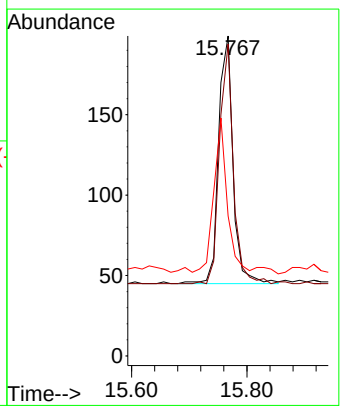


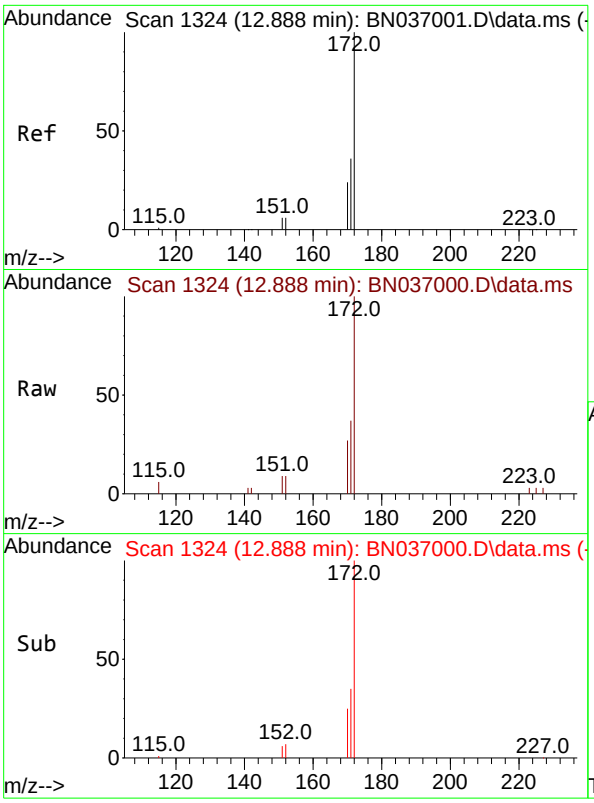


#14
2,4,6-Tribromophenol
Concen: 0.192 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:330 Resp: 267

Ion	Ratio	Lower	Upper
330	100		
332	93.3	73.8	110.8
141	58.1	43.9	65.9



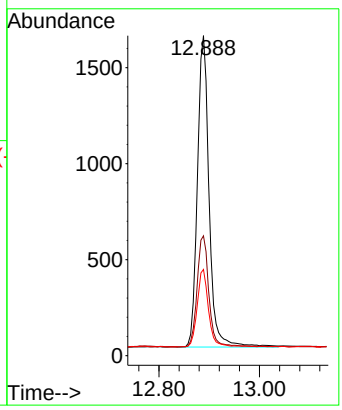


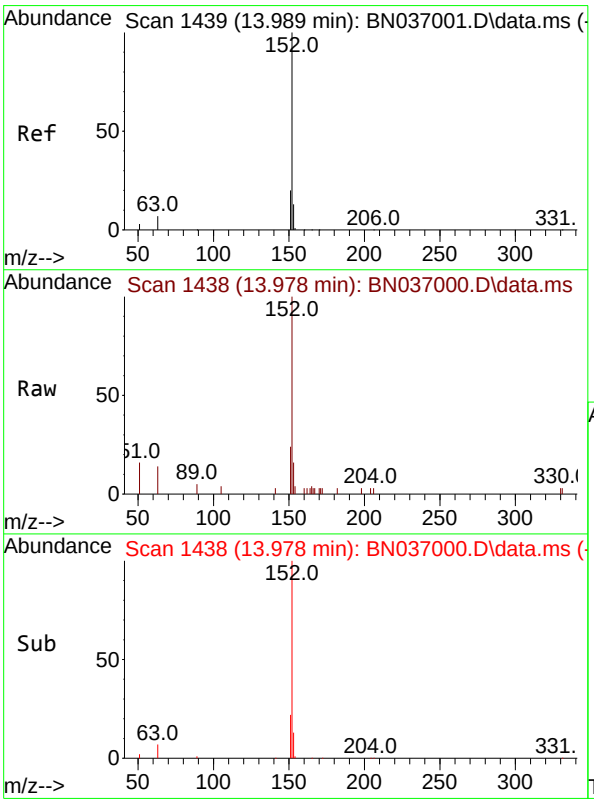
#15
2-Fluorobiphenyl
Concen: 0.197 ng
RT: 12.888 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2858

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.2	43.8
170	26.9	20.5	30.7

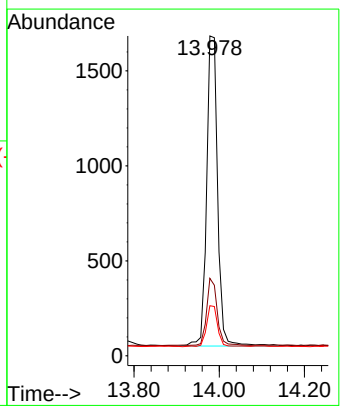


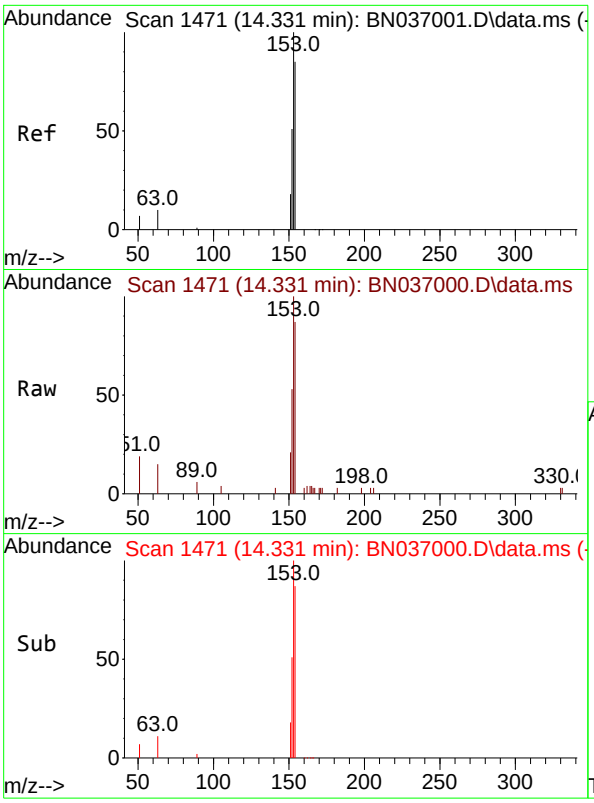


#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:152 Resp: 2917

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.1	24.1
153	13.7	10.5	15.7



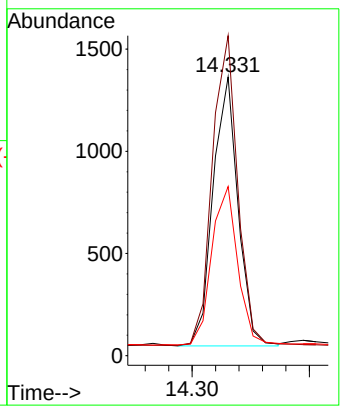


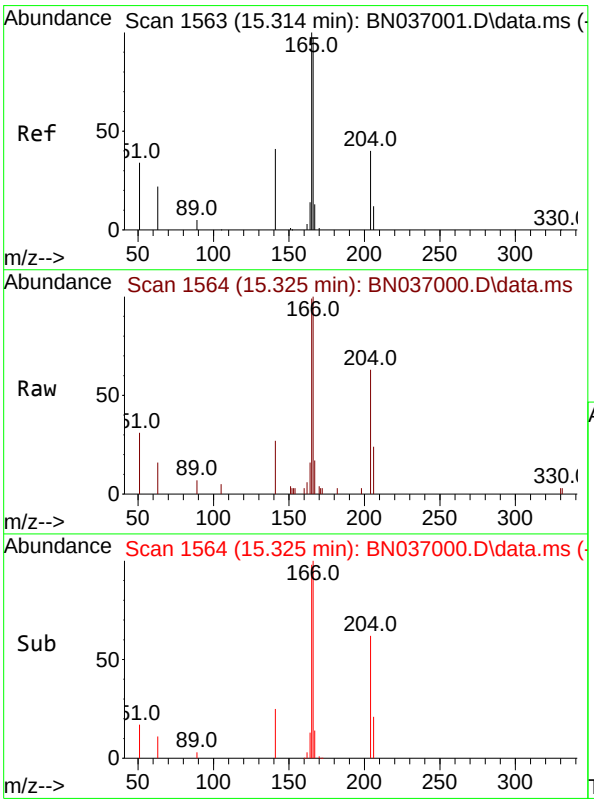
#17
Acenaphthene
Concen: 0.193 ng
RT: 14.331 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 1950

Ion	Ratio	Lower	Upper
154	100		
153	117.0	94.2	141.4
152	62.3	49.4	74.0

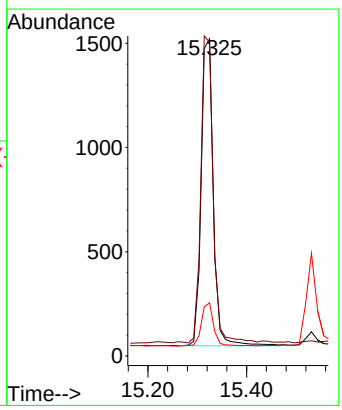


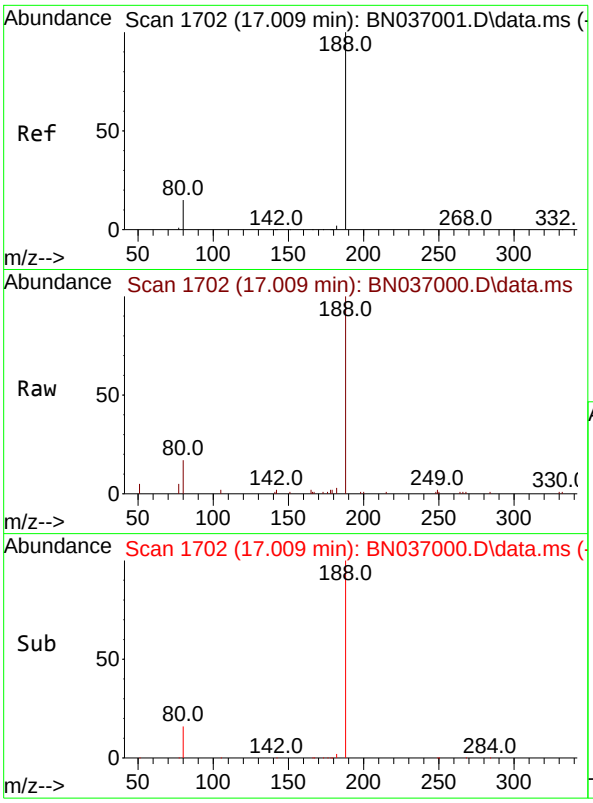


#18
Fluorene
Concen: 0.189 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:166 Resp: 2509

Ion	Ratio	Lower	Upper
166	100		
165	99.9	80.6	120.8
167	14.1	10.6	16.0



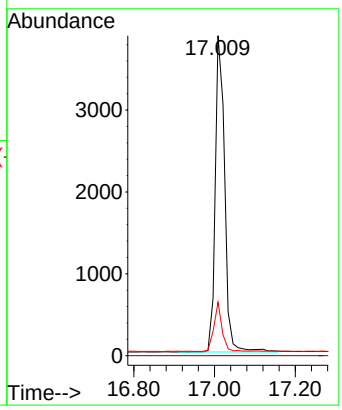


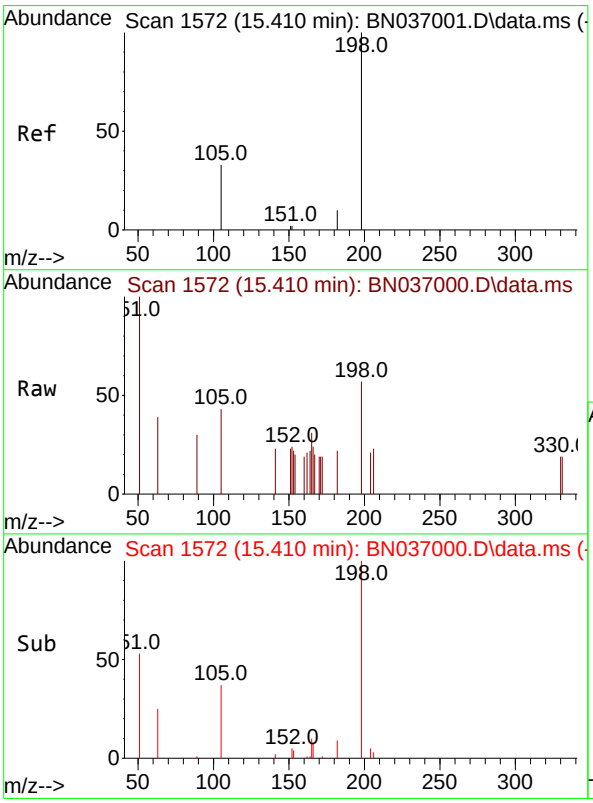
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 6255

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.7	13.4	20.0

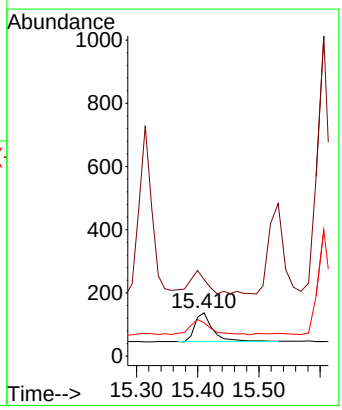


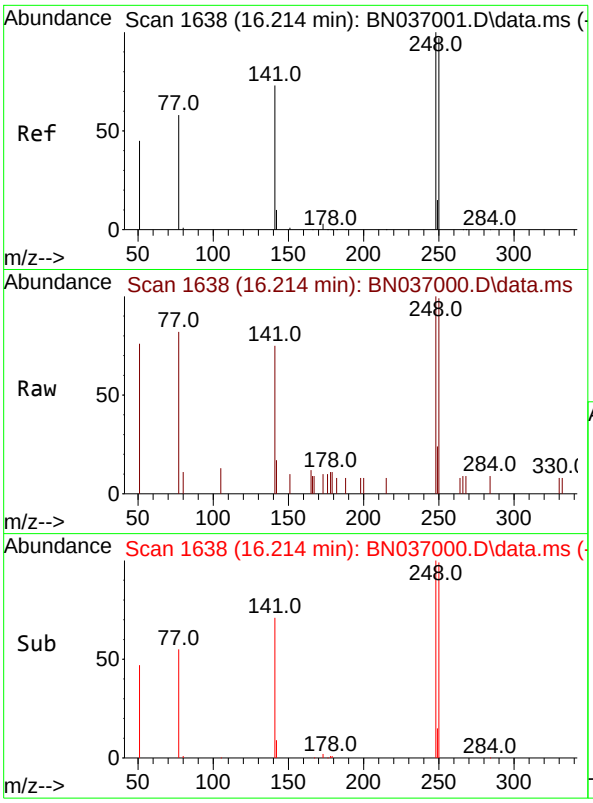


#20
4,6-Dinitro-2-methylphenol
Concen: 0.167 ng
RT: 15.410 min Scan# 1572
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:198 Resp: 187

Ion	Ratio	Lower	Upper
198	100		
51	176.6	87.8	131.6#
105	76.6	44.2	66.4#



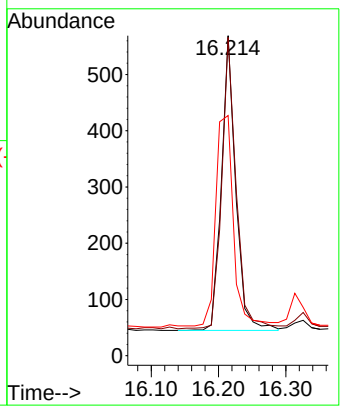


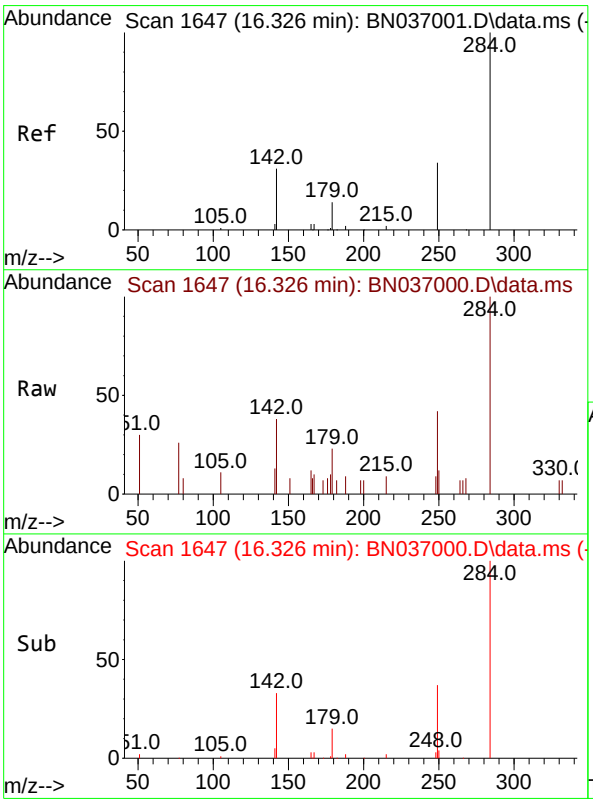
#21
4-Bromophenyl-phenylether
Concen: 0.195 ng
RT: 16.214 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 770

Ion	Ratio	Lower	Upper
248	100		
250	99.5	78.1	117.1
141	75.0	59.7	89.5

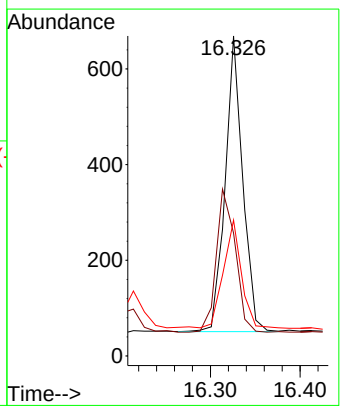


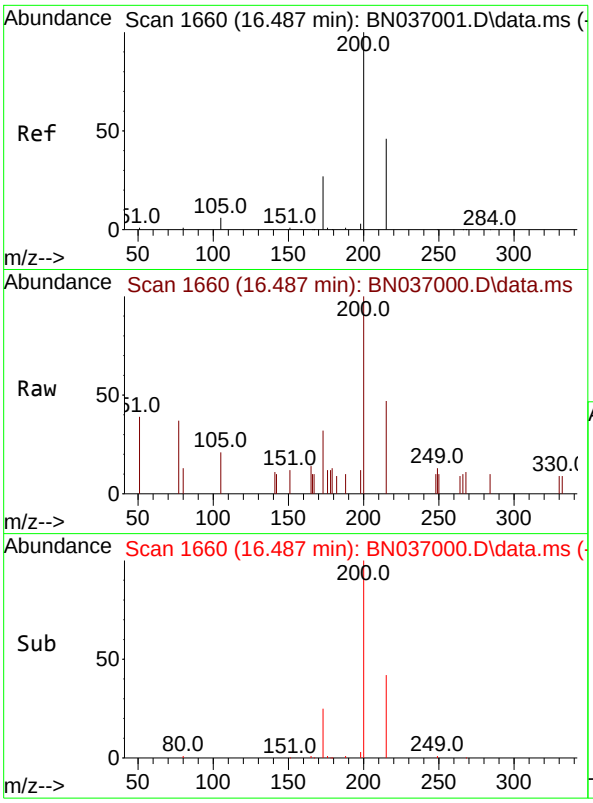


#22
Hexachlorobenzene
Concen: 0.199 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:284 Resp: 840

Ion	Ratio	Lower	Upper
284	100		
142	52.3	41.2	61.8
249	37.9	28.7	43.1



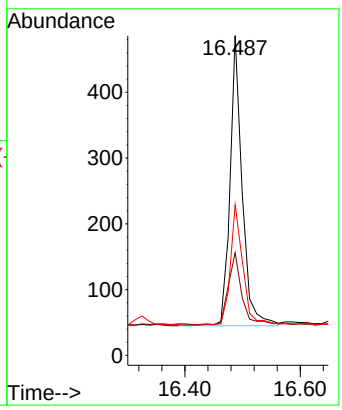


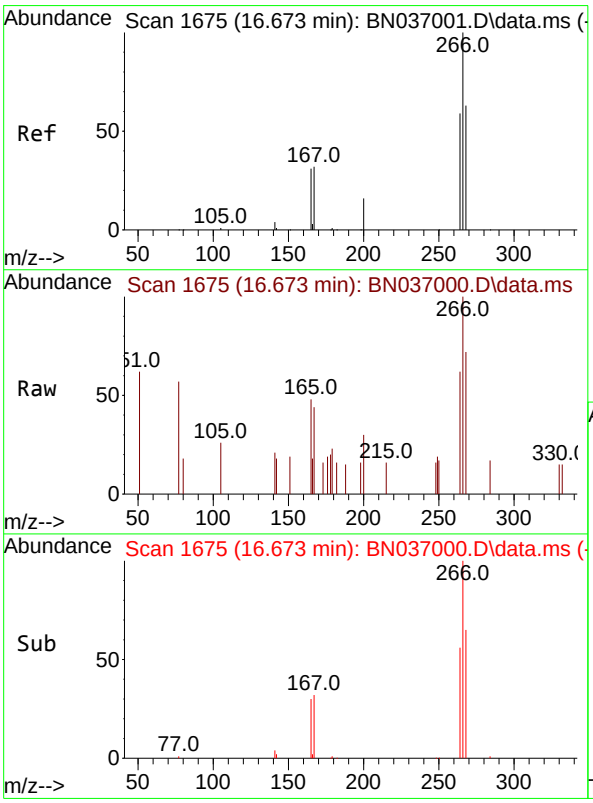
#23
Atrazine
Concen: 0.188 ng
RT: 16.487 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 647

Ion	Ratio	Lower	Upper
200	100		
173	32.1	25.2	37.8
215	47.1	39.3	58.9

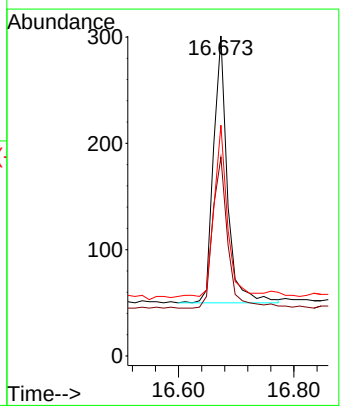


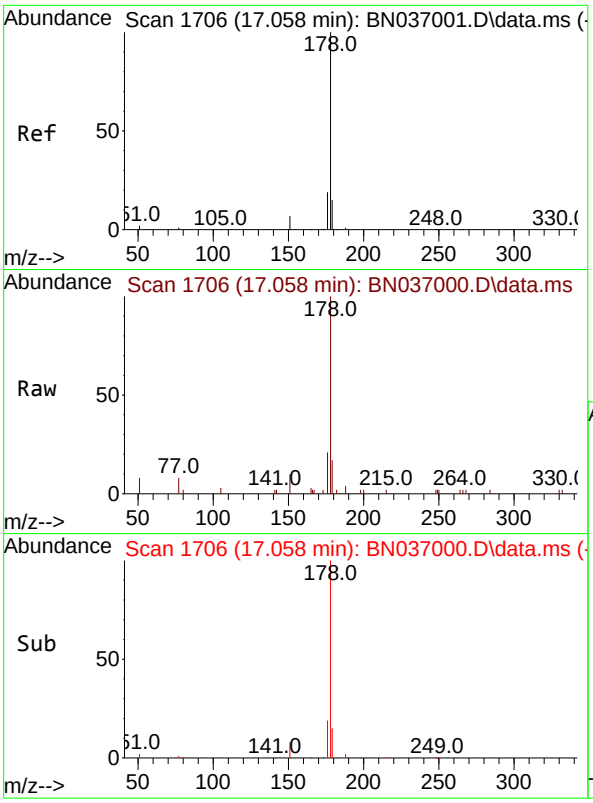


#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:266 Resp: 419

Ion	Ratio	Lower	Upper
266	100		
264	62.8	47.9	71.9
268	62.8	50.0	75.0



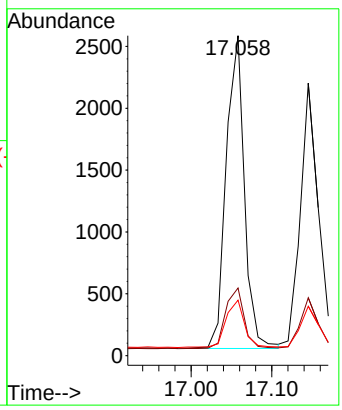


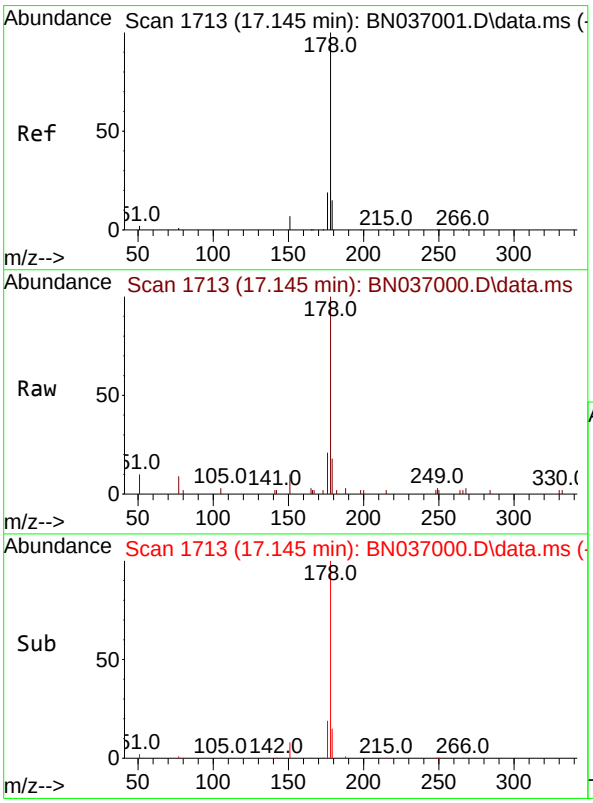
#25
Phenanthrene
Concen: 0.195 ng
RT: 17.058 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 3977

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.6	12.2	18.2

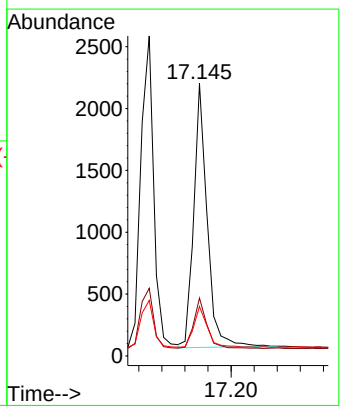


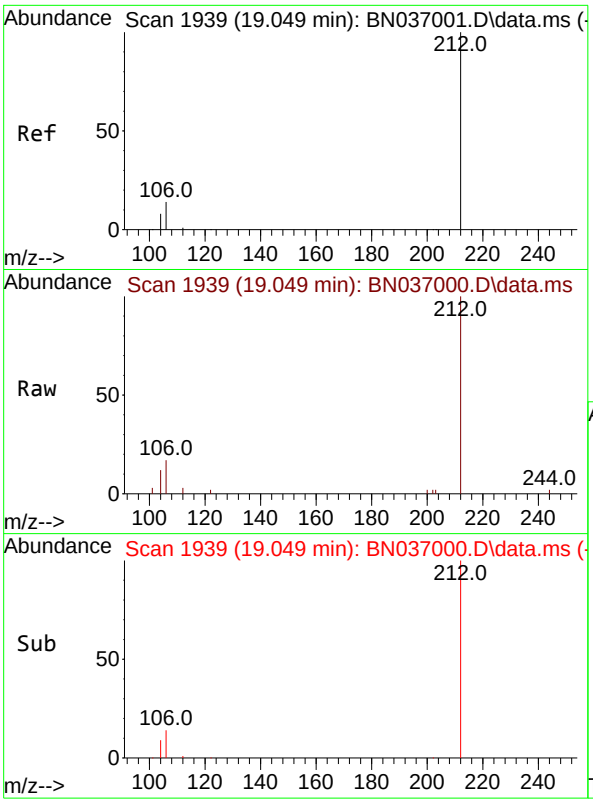


#26
Anthracene
Concen: 0.186 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:178 Resp: 3452

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.9	12.3	18.5



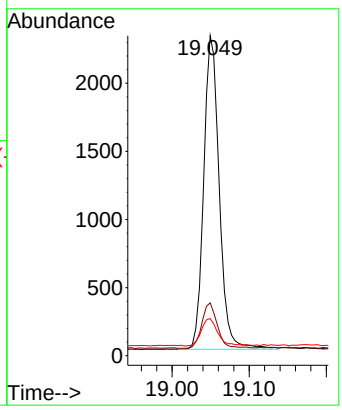


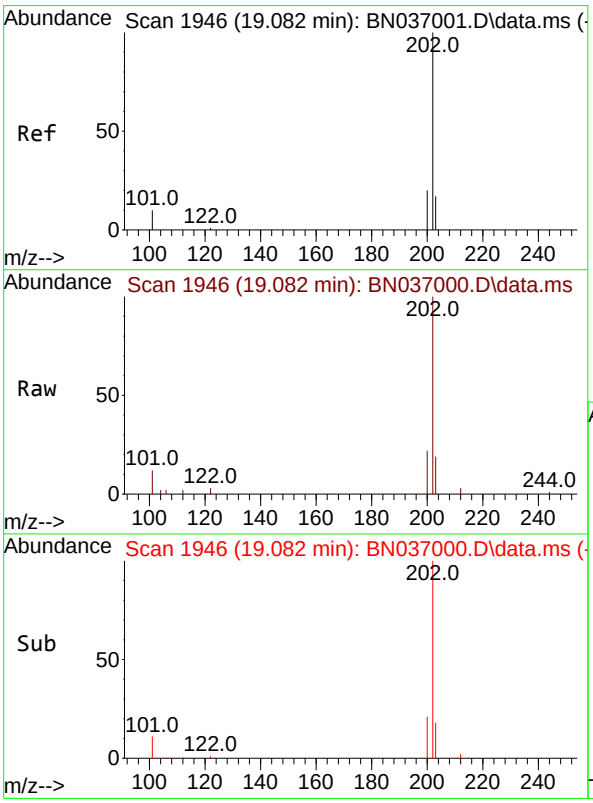
#27
Fluoranthene-d10
Concen: 0.188 ng
RT: 19.049 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 3232

Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.3	16.9
104	9.5	6.7	10.1

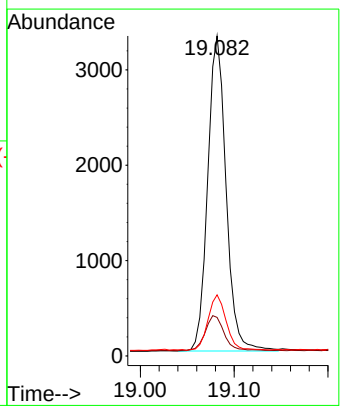


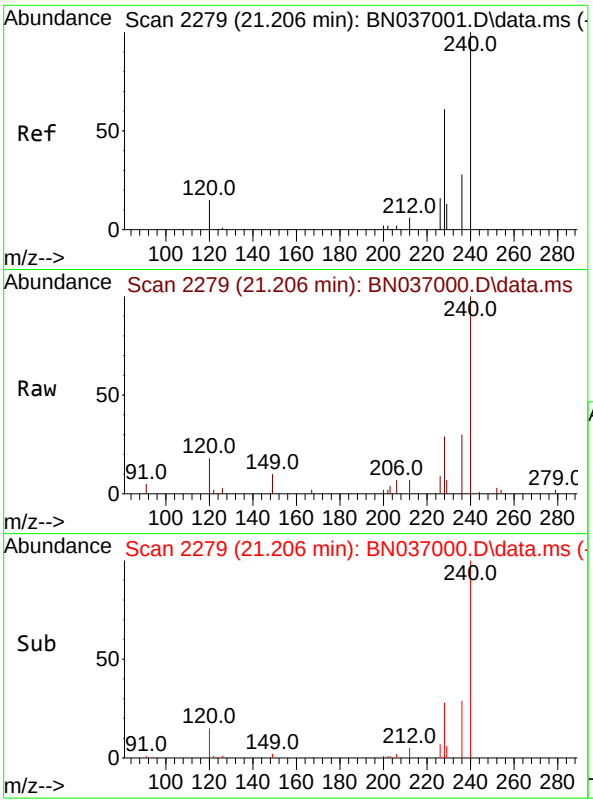


#28
Fluoranthene
Concen: 0.184 ng
RT: 19.082 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:202 Resp: 4499

Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.9	13.3
203	17.6	13.8	20.8



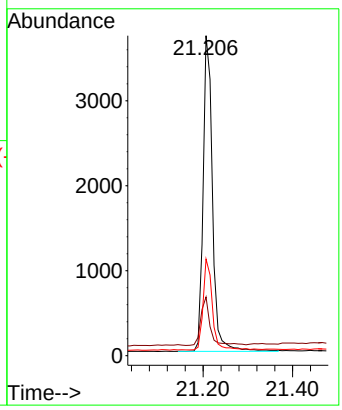


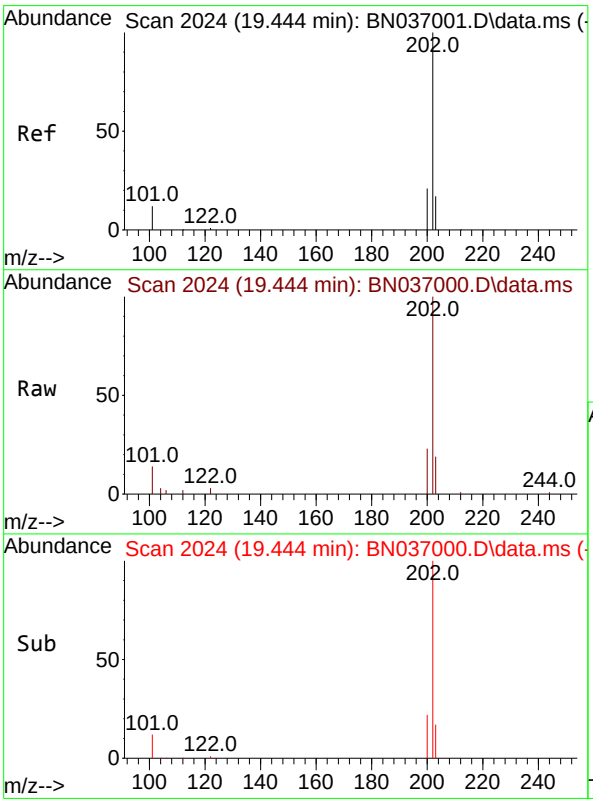
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 5420

Ion	Ratio	Lower	Upper
240	100		
120	18.3	15.1	22.7
236	30.2	24.0	36.0

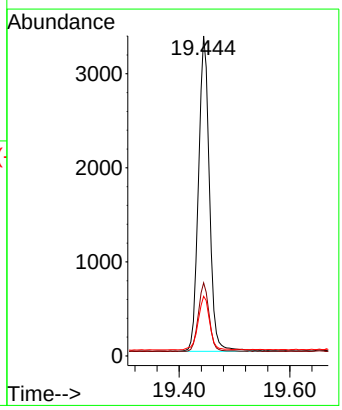


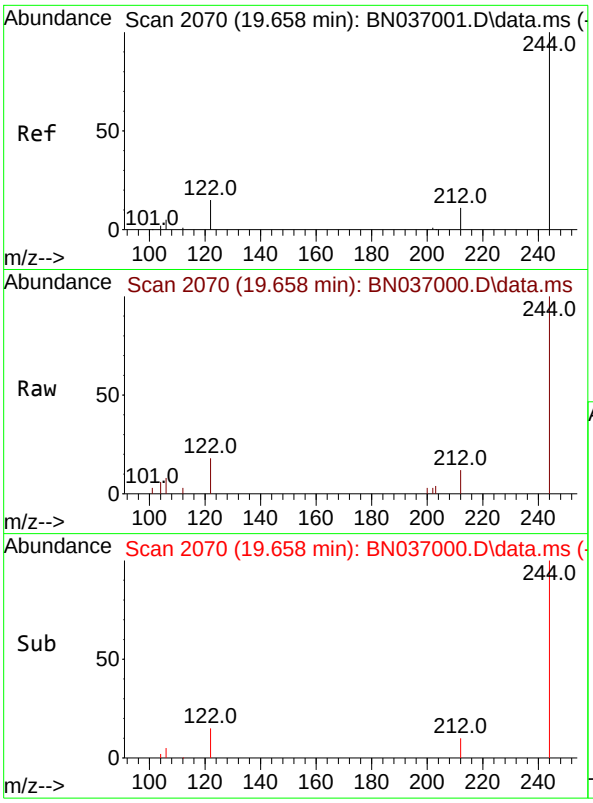


#30
Pyrene
Concen: 0.200 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:202 Resp: 4629

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.7	14.2	21.4



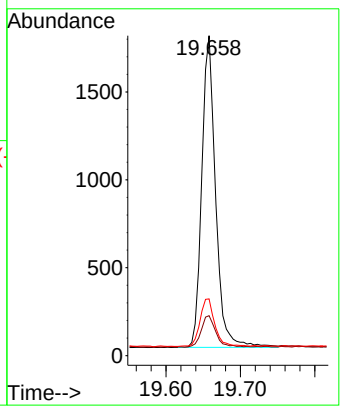


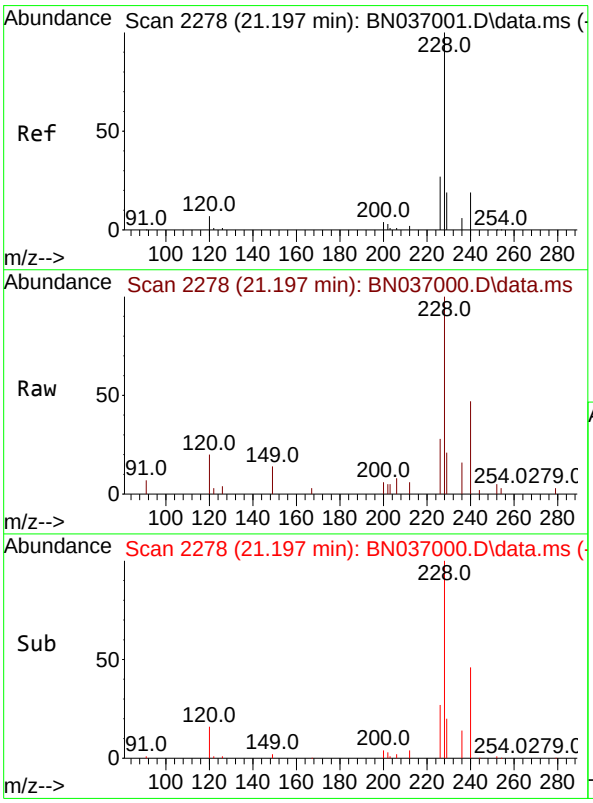
#31
Terphenyl-d14
Concen: 0.197 ng
RT: 19.658 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 2287

Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.7	14.5
122	17.7	13.4	20.0

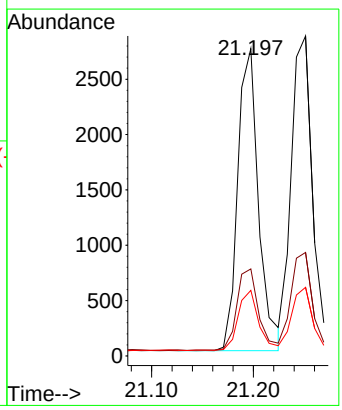


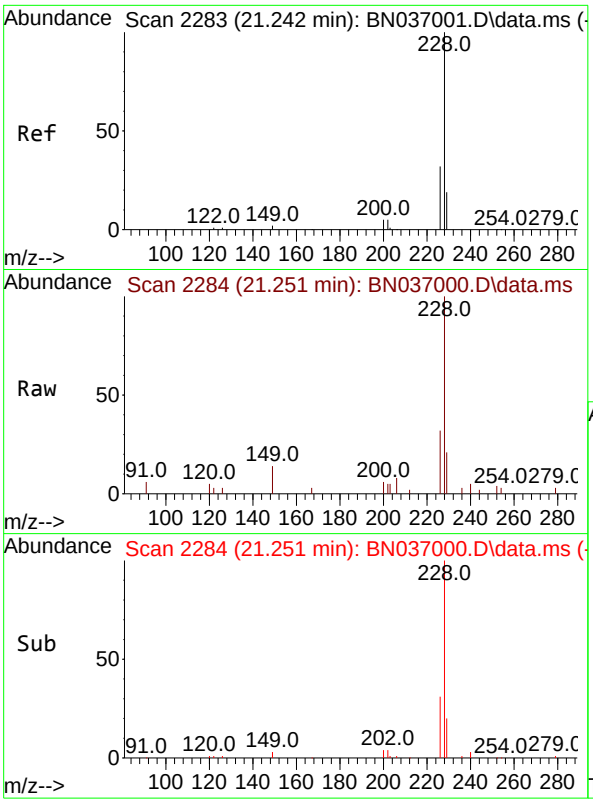


#32
Benzo(a)anthracene
Concen: 0.190 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:228 Resp: 3882

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.2	33.4
229	21.4	16.0	24.0



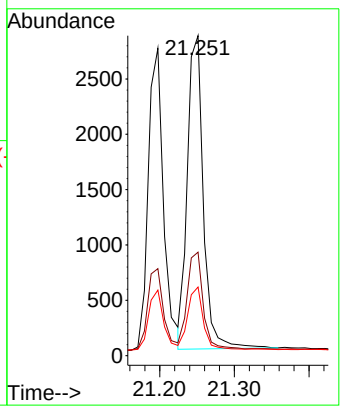


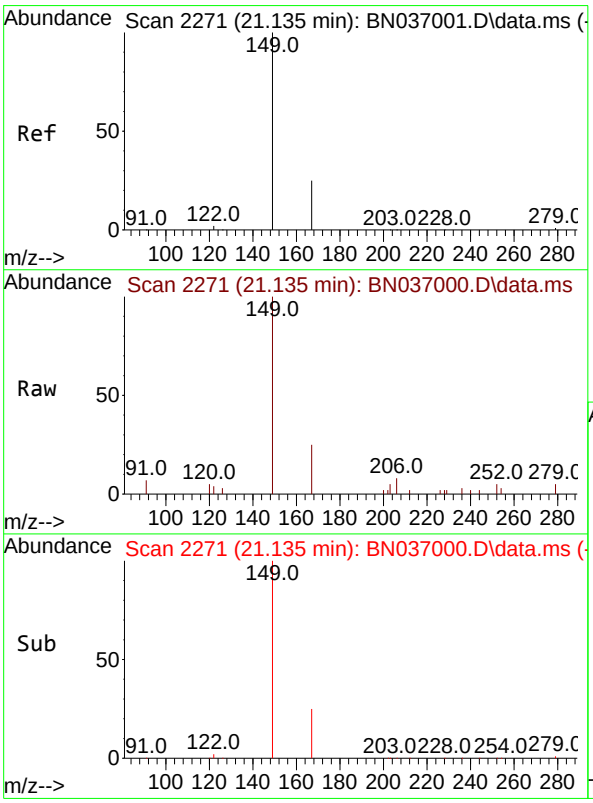
#33
Chrysene
Concen: 0.196 ng
RT: 21.251 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 4226

Ion	Ratio	Lower	Upper
228	100		
226	32.3	26.3	39.5
229	21.4	16.2	24.2

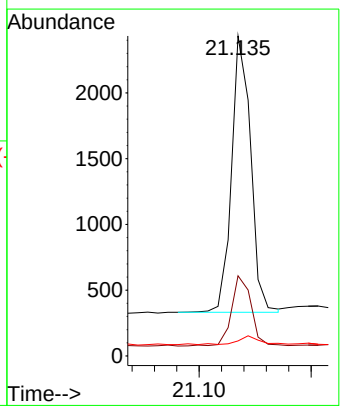


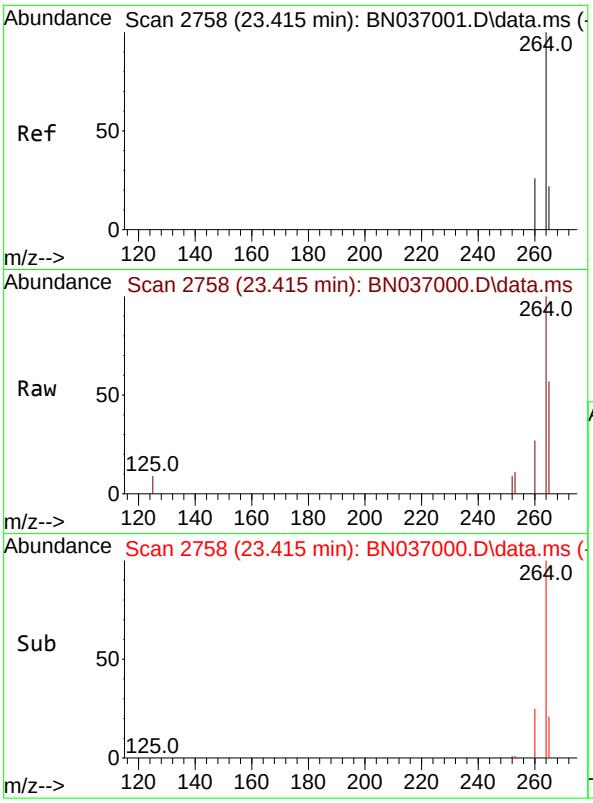


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.198 ng
RT: 21.135 min Scan# 2271
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:149 Resp: 2490

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.6	30.8
279	3.8	2.6	3.8



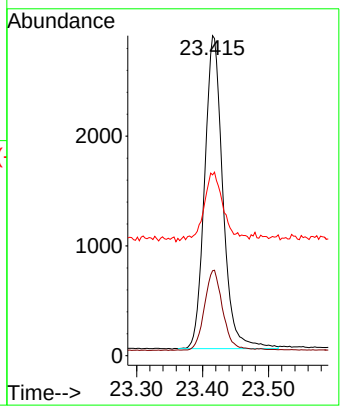


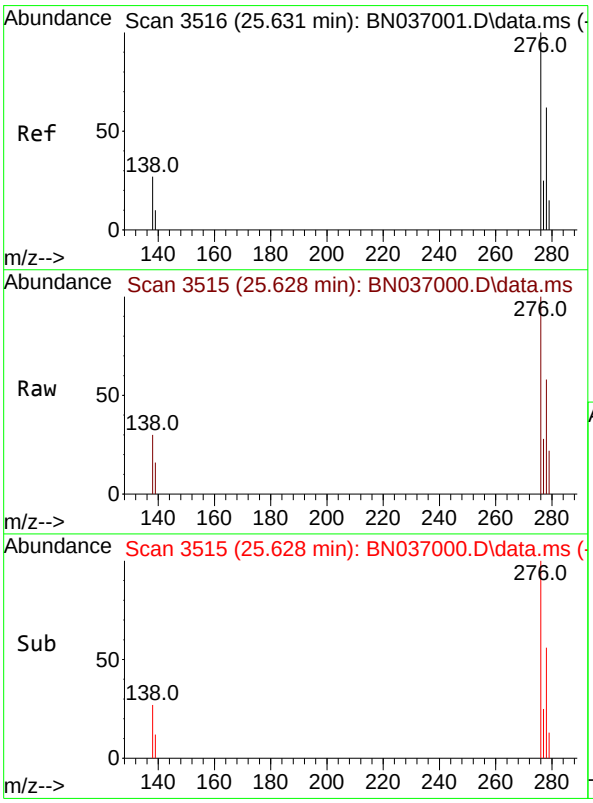
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 5487

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.9	32.9
265	56.5	51.6	77.4

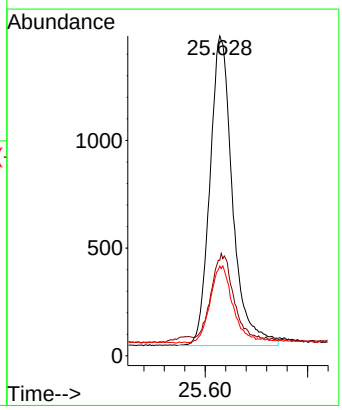


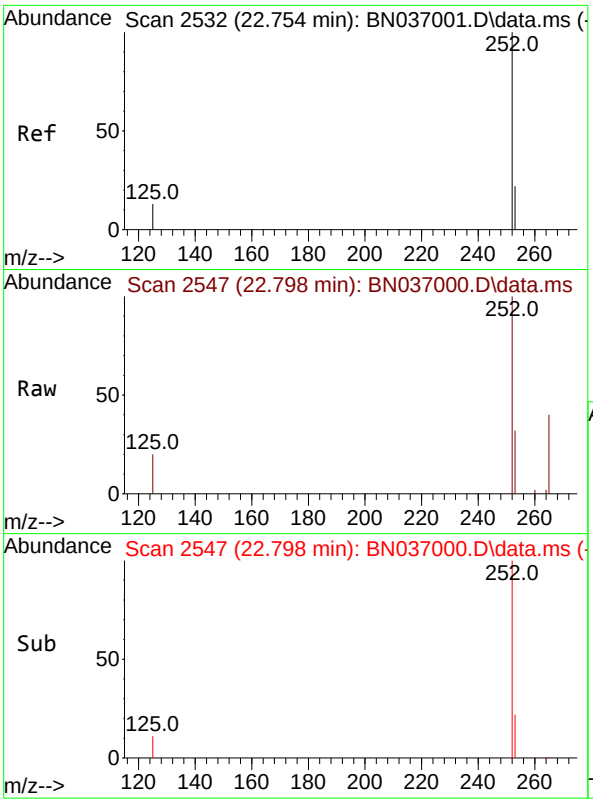


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.198 ng
RT: 25.628 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:276 Resp: 4426

Ion	Ratio	Lower	Upper
276	100		
138	27.9	22.7	34.1
277	24.6	20.0	30.0



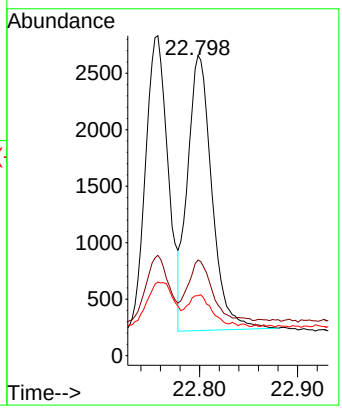


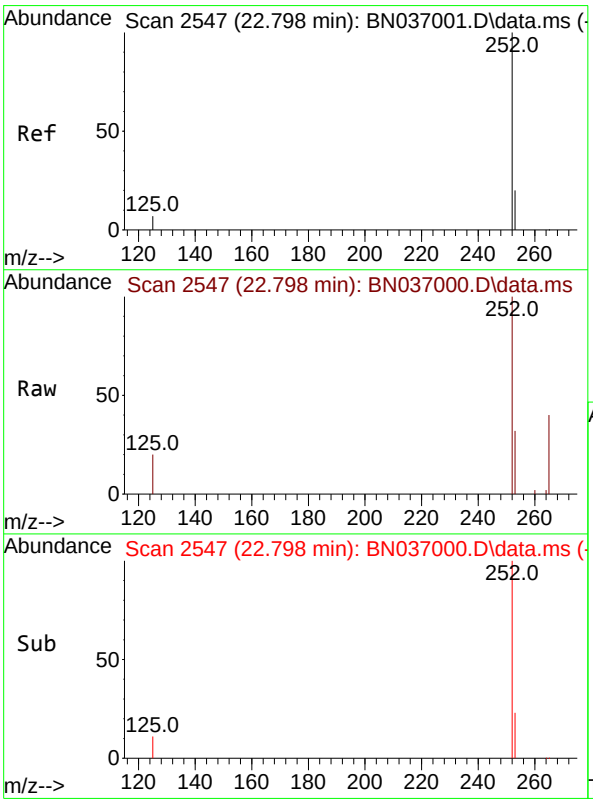
#37
Benzo(b)fluoranthene
Concen: 0.185 ng
RT: 22.798 min Scan# 2
Delta R.T. 0.044 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 4219

Ion	Ratio	Lower	Upper
252	100		
253	31.9	21.8	32.6
125	20.0	14.6	21.8

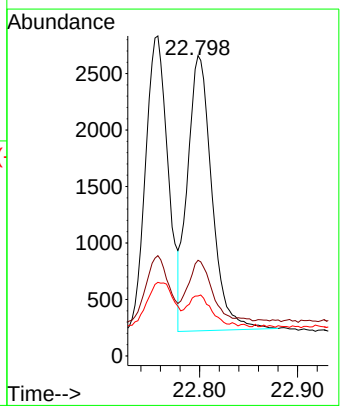


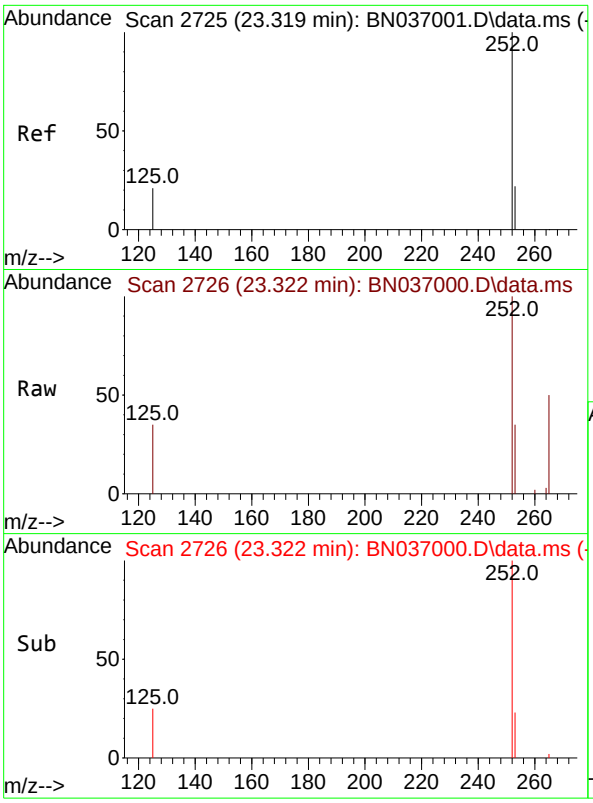


#38
Benzo(k)fluoranthene
Concen: 0.188 ng
RT: 22.798 min Scan# 2547
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:252 Resp: 4219

Ion	Ratio	Lower	Upper
252	100		
253	31.9	21.4	32.2
125	20.0	13.0	19.4#



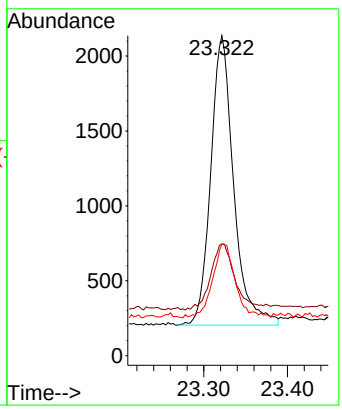


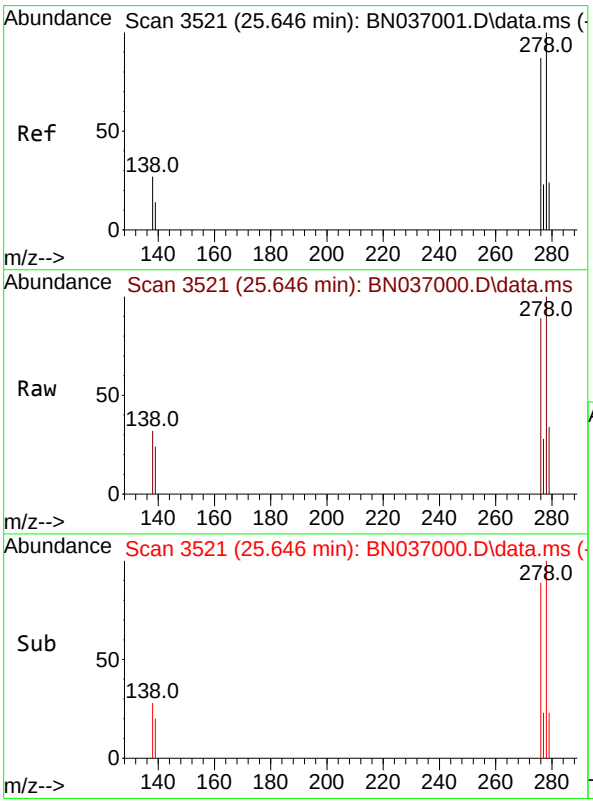
#39
Benzo(a)pyrene
Concen: 0.191 ng
RT: 23.322 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 3685

Ion	Ratio	Lower	Upper
252	100		
253	34.9	23.8	35.6
125	35.0	21.8	32.6#

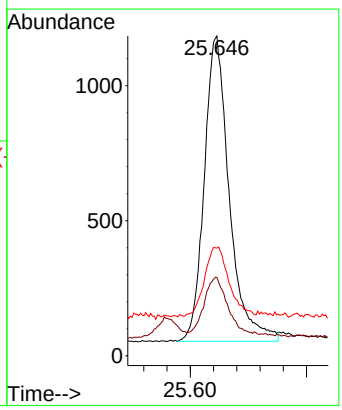


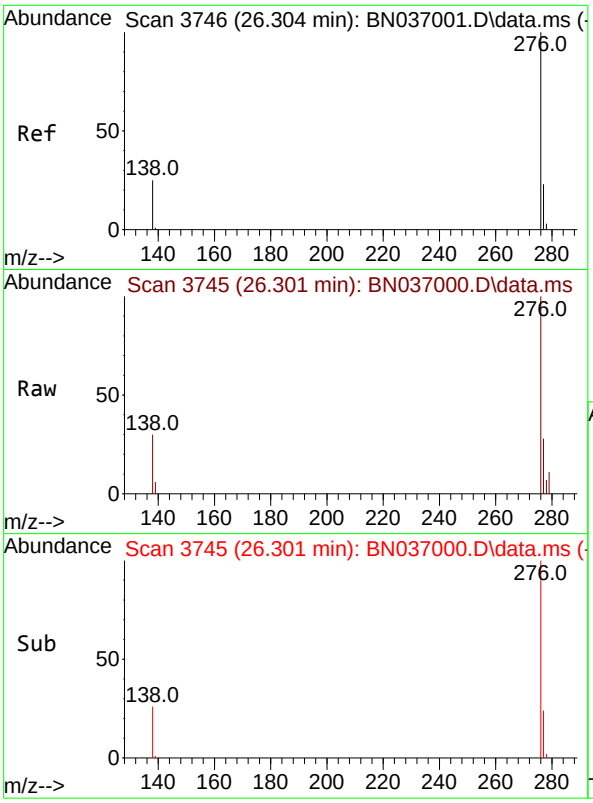


#40
Dibenzo(a,h)anthracene
Concen: 0.194 ng
RT: 25.646 min Scan# 3521
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:278 Resp: 3380

Ion	Ratio	Lower	Upper
278	100		
139	24.5	17.4	26.0
279	33.7	24.6	37.0



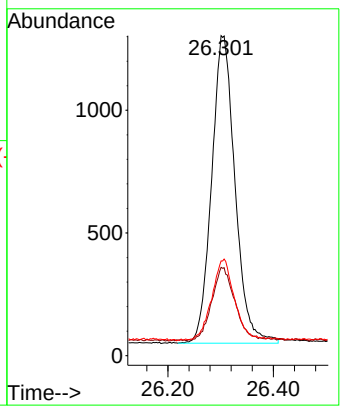


#41
Benzo(g,h,i)perylene
Concen: 0.204 ng
RT: 26.301 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 3861

Ion	Ratio	Lower	Upper
276	100		
277	27.6	20.2	30.4
138	29.6	22.0	33.0



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037115.D
Acq On : 28 May 2025 18:59
Operator : RC/JU
Sample : Q2082-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Quant Time: May 29 01:32:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1749	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4761	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2641	0.400	ng	-0.01
19) Phenanthrene-d10	16.996	188	5103	0.400	ng	-0.01
29) Chrysene-d12	21.198	240	3511	0.400	ng	# 0.00
35) Perylene-d12	23.398	264	2983	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	554	0.121	ng	0.00
5) Phenol-d6	6.788	99	415	0.072	ng	0.00
8) Nitrobenzene-d5	8.760	82	1335	0.258	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	1713	0.256	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	416	0.359	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	3978	0.329	ng	0.00
27) Fluoranthene-d10	19.040	212	4536	0.324	ng	0.00
31) Terphenyl-d14	19.644	244	3979	0.530	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.133	88	478	0.223	ng	# 62
9) Naphthalene	10.436	128	367	0.026	ng	# 65
20) 4,6-Dinitro-2-methylph...	15.357	198	3	0.027	ng	# 1
30) Pyrene	19.435	202	371	0.025	ng	# 59
34) Bis(2-ethylhexyl)phtha...	21.126	149	393	0.048	ng	# 91

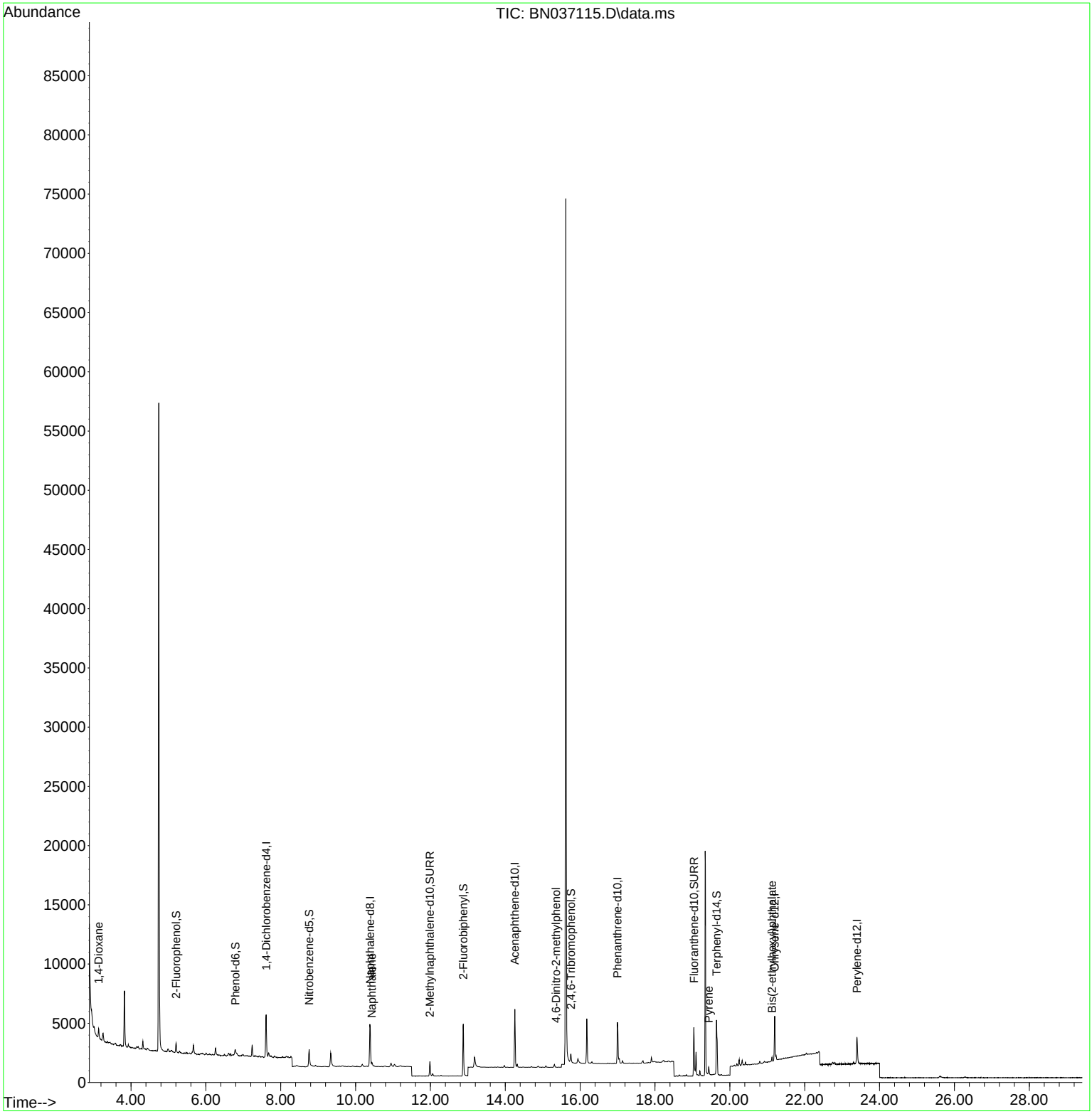
(#) = qualifier out of range (m) = manual integration (+) = signals summed

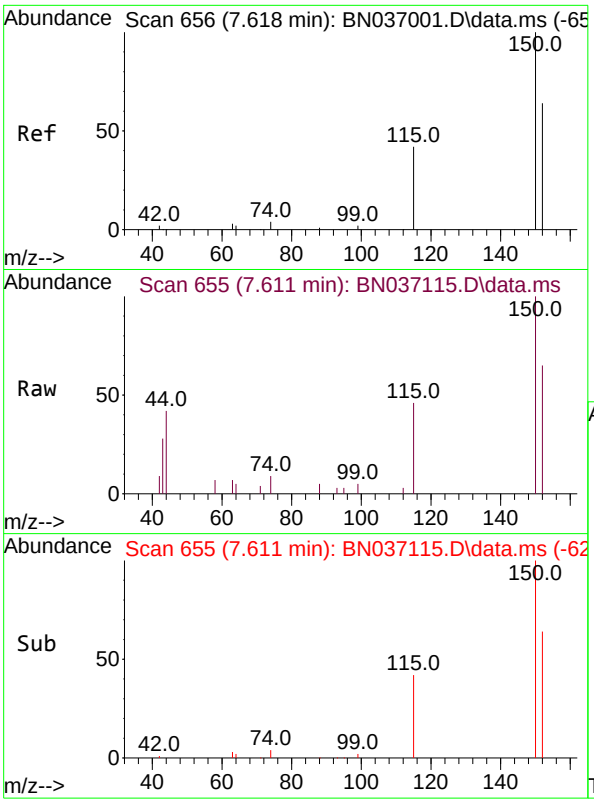
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037115.D
Acq On : 28 May 2025 18:59
Operator : RC/JU
Sample : Q2082-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Quant Time: May 29 01:32:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



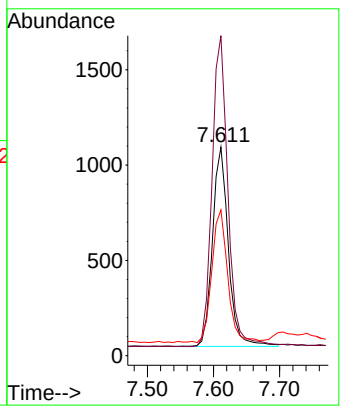


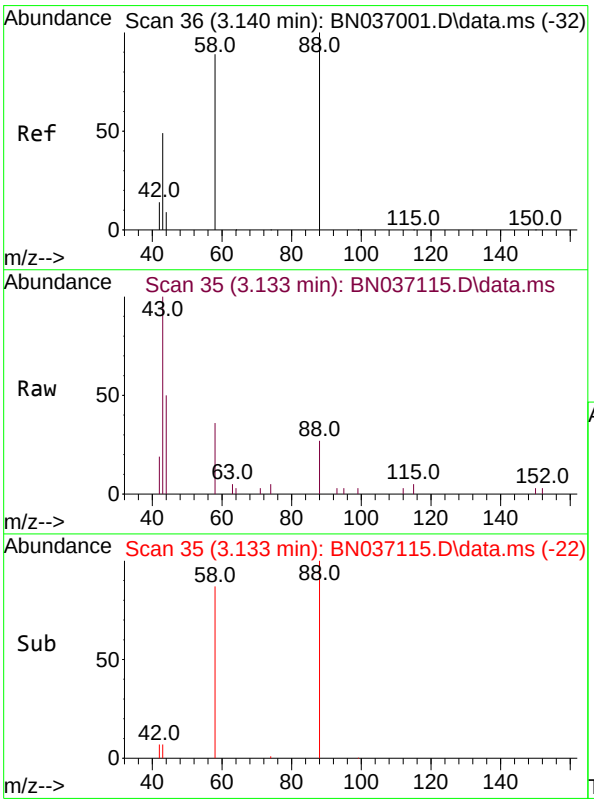
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:152 Resp: 1749

Ion	Ratio	Lower	Upper
152	100		
150	153.5	123.9	185.9
115	69.9	55.8	83.8

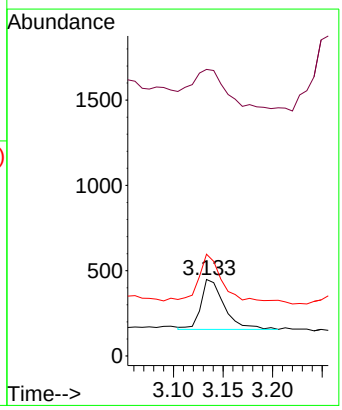


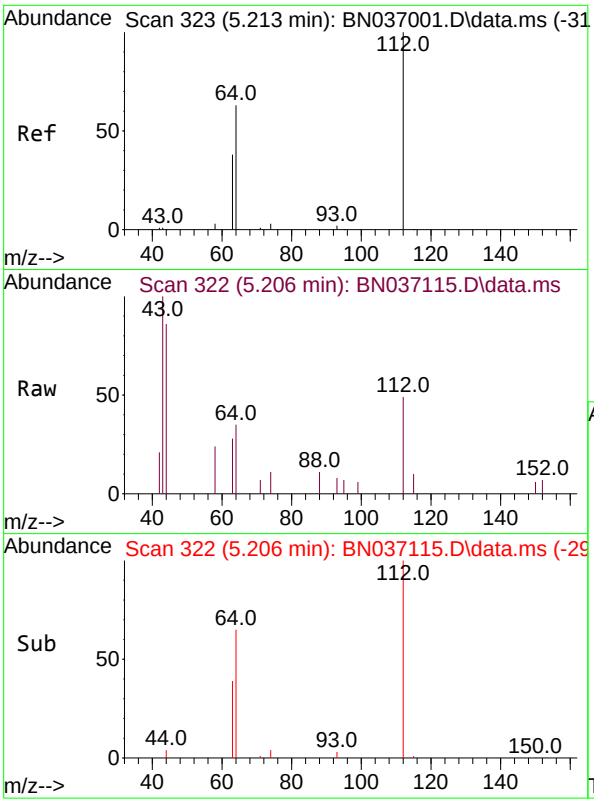


#2
1,4-Dioxane
Concen: 0.223 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion: 88 Resp: 478

Ion	Ratio	Lower	Upper
88	100		
43	114.9	37.4	56.0#
58	88.5	68.8	103.2



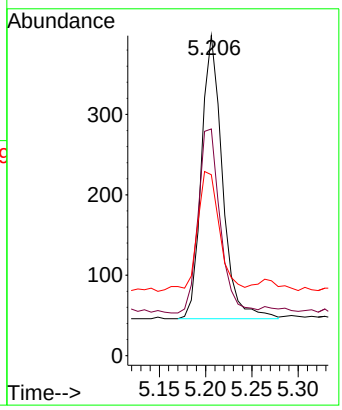


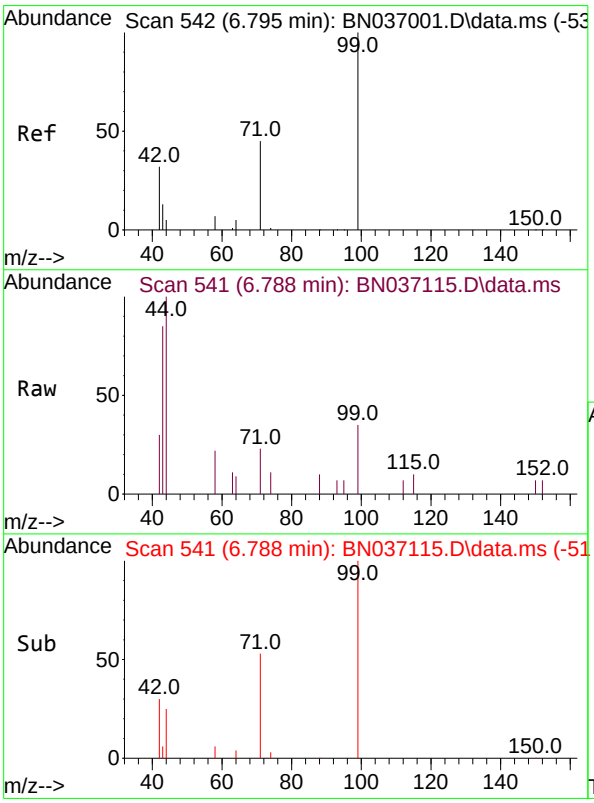
#4
2-Fluorophenol
Concen: 0.121 ng
RT: 5.206 min Scan# 3
Delta R.T. -0.007 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:112 Resp: 554

Ion	Ratio	Lower	Upper
112	100		
64	68.4	55.7	83.5
63	46.4	34.6	51.8

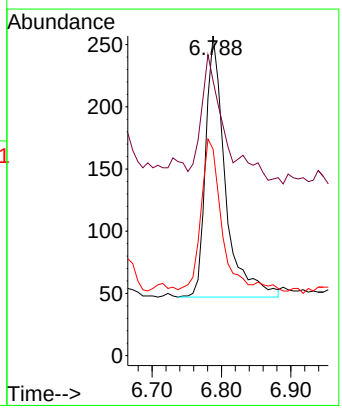


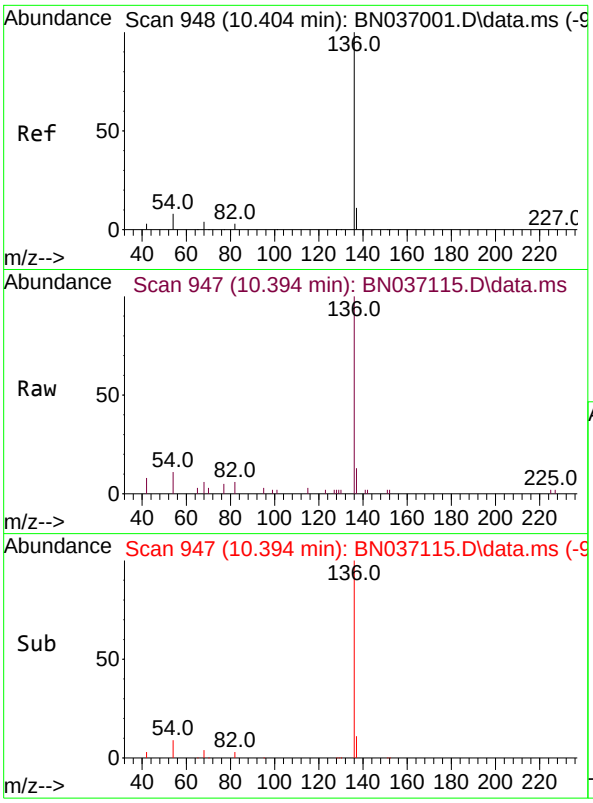


#5
Phenol-d6
Concen: 0.072 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion: 99 Resp: 415

Ion	Ratio	Lower	Upper
99	100		
42	40.2	29.3	43.9
71	57.6	35.7	53.5#



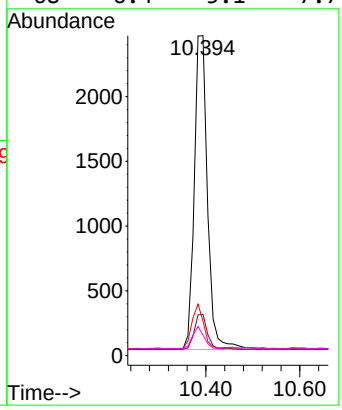


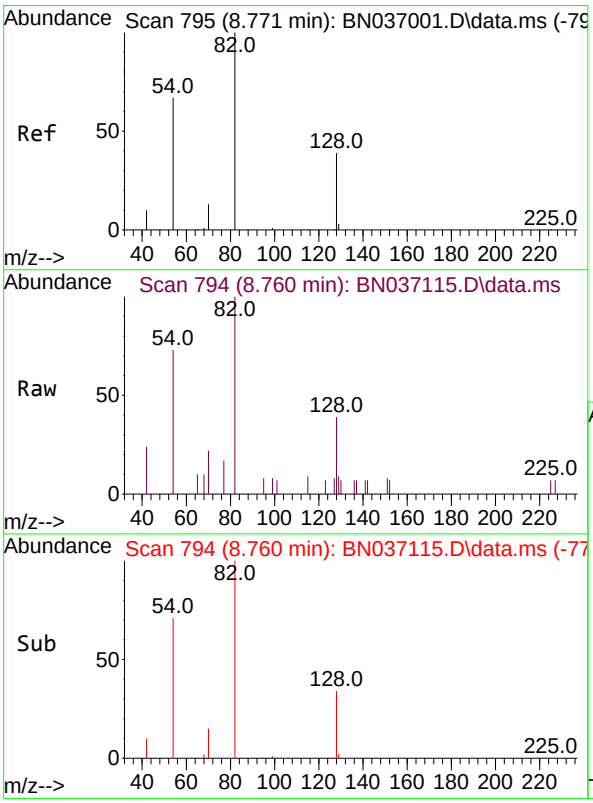
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:136 Resp: 4761

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	10.8	8.5	12.7
68	6.4	5.1	7.7

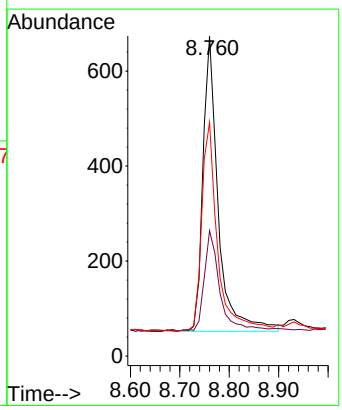


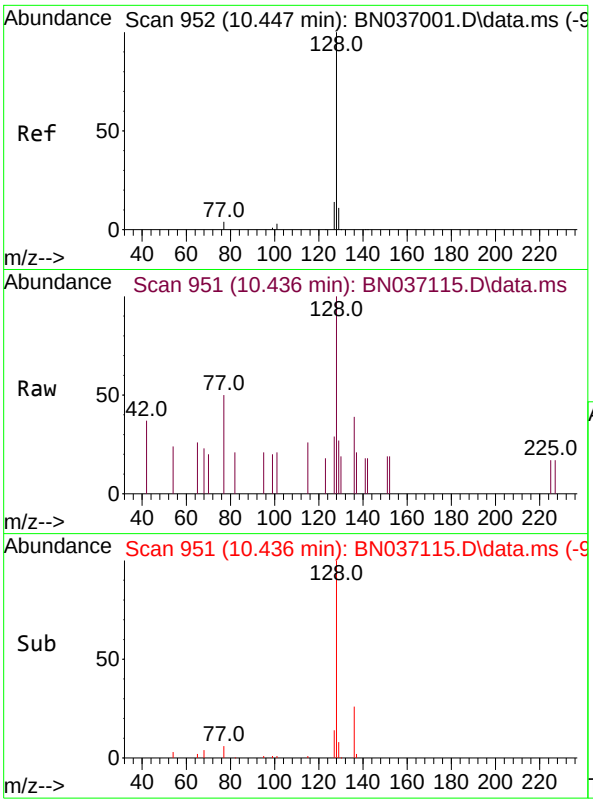


#8
Nitrobenzene-d5
Concen: 0.258 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion: 82 Resp: 1335

Ion	Ratio	Lower	Upper
82	100		
128	39.2	34.0	51.0
54	73.0	55.0	82.4



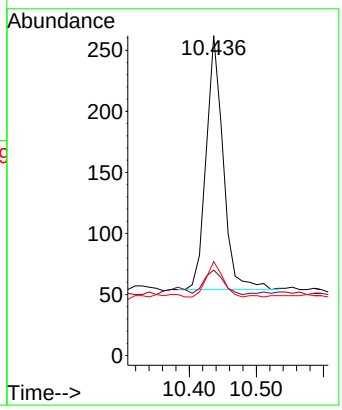


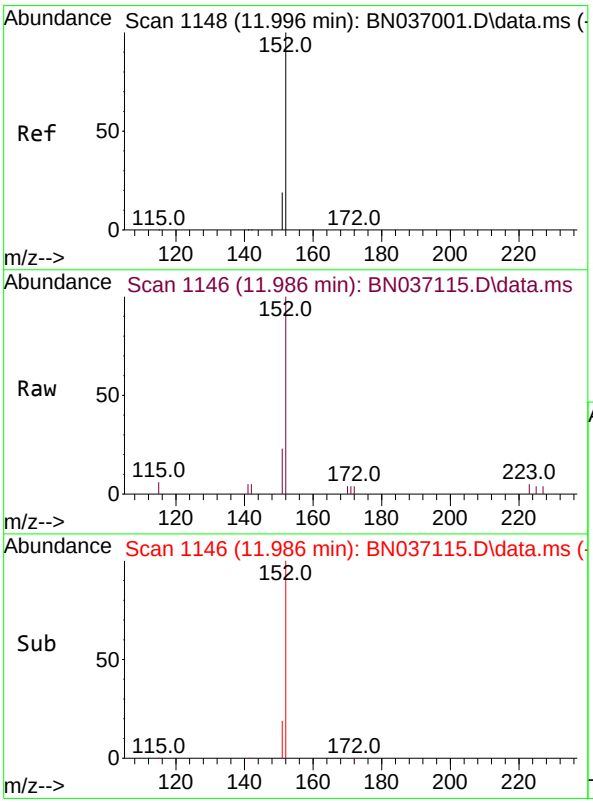
#9
Naphthalene
Concen: 0.026 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:128 Resp: 367

Ion	Ratio	Lower	Upper
128	100		
129	26.7	9.7	14.5#
127	29.4	12.4	18.6#

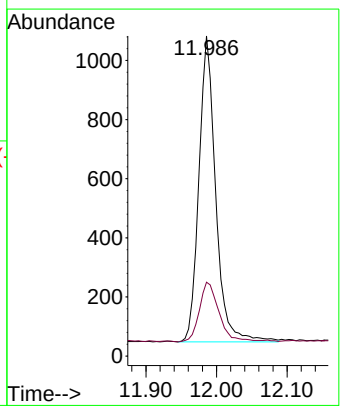


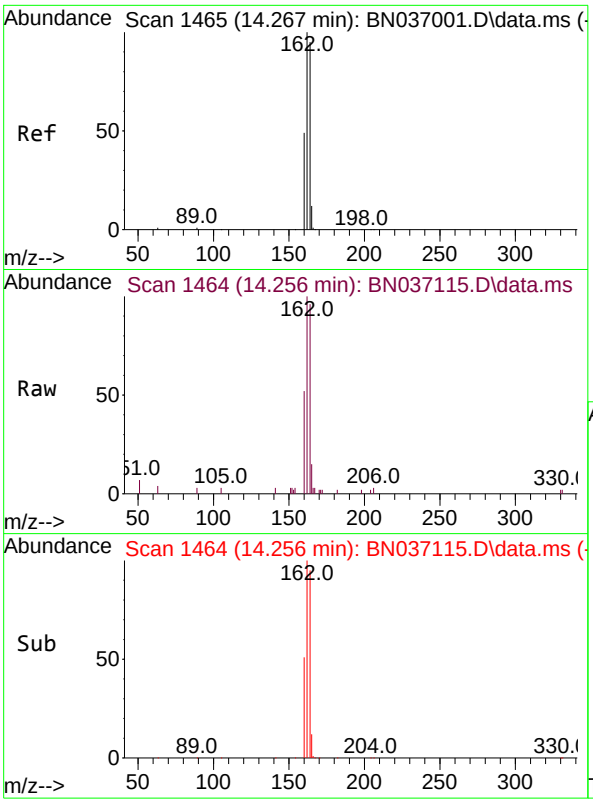


#11
2-Methylnaphthalene-d10
Concen: 0.256 ng
RT: 11.986 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:152 Resp: 1713

Ion	Ratio	Lower	Upper
152	100		
151	22.8	17.5	26.3



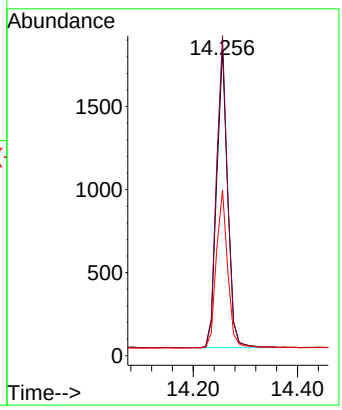


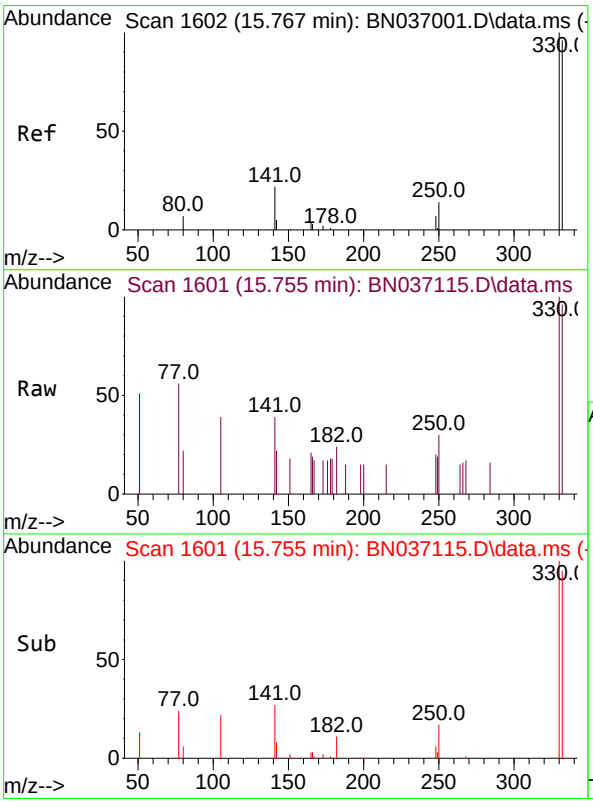
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:164 Resp: 2641

Ion	Ratio	Lower	Upper
164	100		
162	104.2	84.2	126.4
160	54.0	42.6	63.8

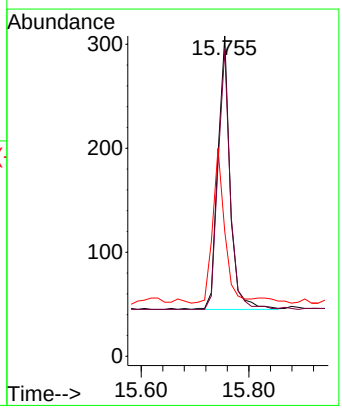


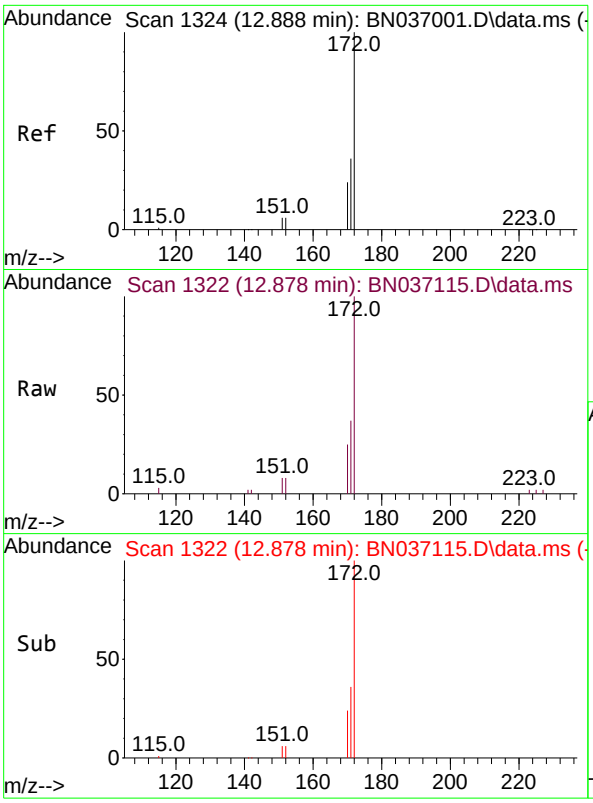


#14
2,4,6-Tribromophenol
Concen: 0.359 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:330 Resp: 416

Ion	Ratio	Lower	Upper
330	100		
332	94.5	73.8	110.8
141	56.3	43.9	65.9



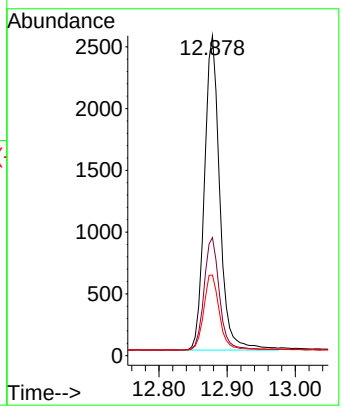


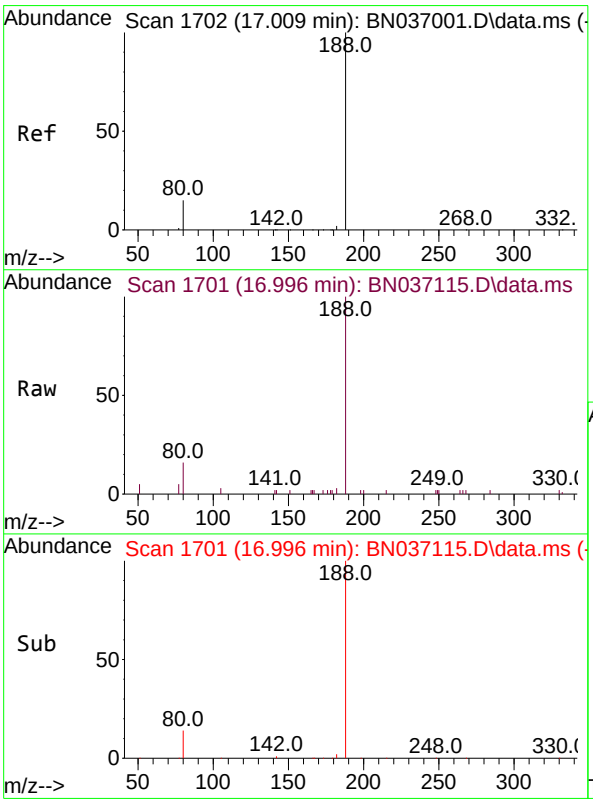
#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.878 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:172 Resp: 3978

Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.2	43.8
170	25.2	20.5	30.7

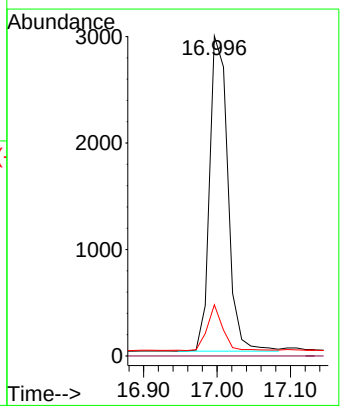


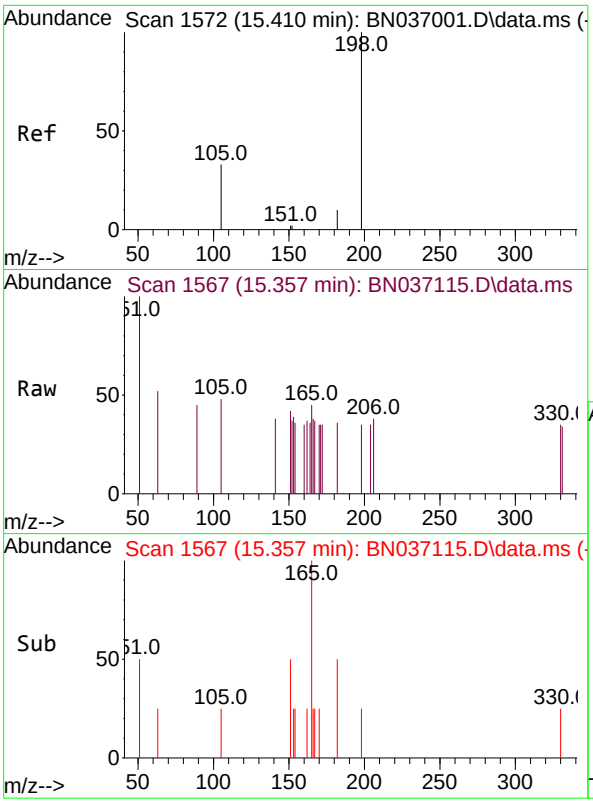


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.996 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:188 Resp: 5103

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.0	13.4	20.0



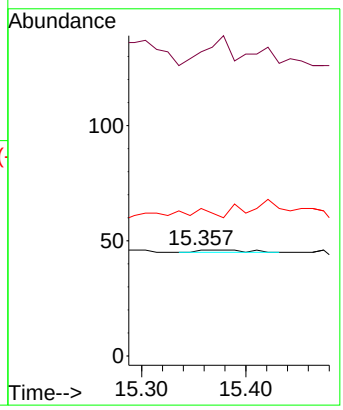


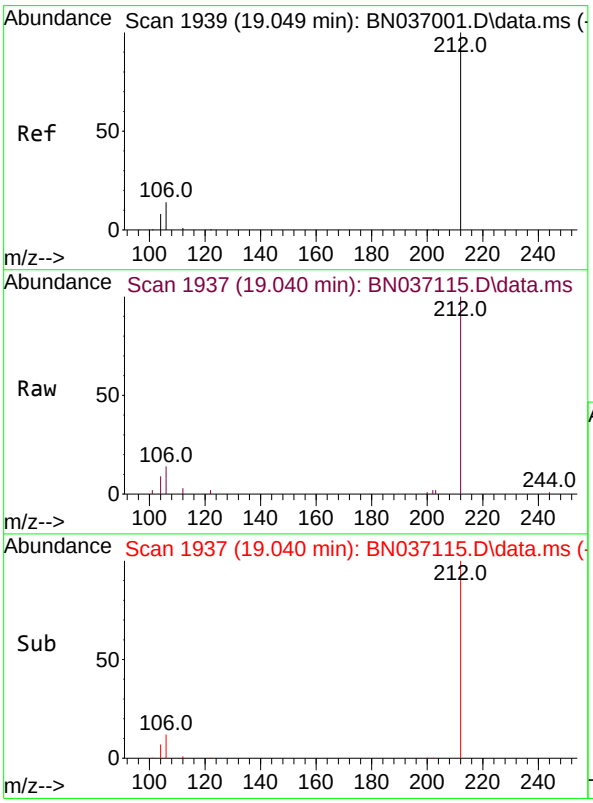
#20
4,6-Dinitro-2-methylphenol
Concen: 0.027 ng
RT: 15.357 min Scan# 1
Delta R.T. -0.053 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:198 Resp: 3

Ion	Ratio	Lower	Upper
198	100		
51	287.0	87.8	131.6#
105	139.1	44.2	66.4#

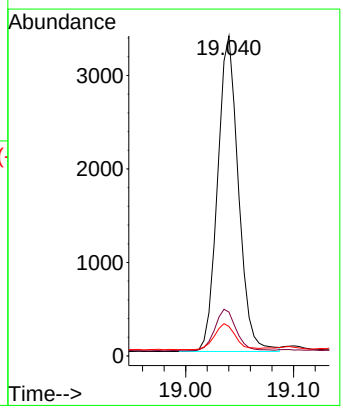


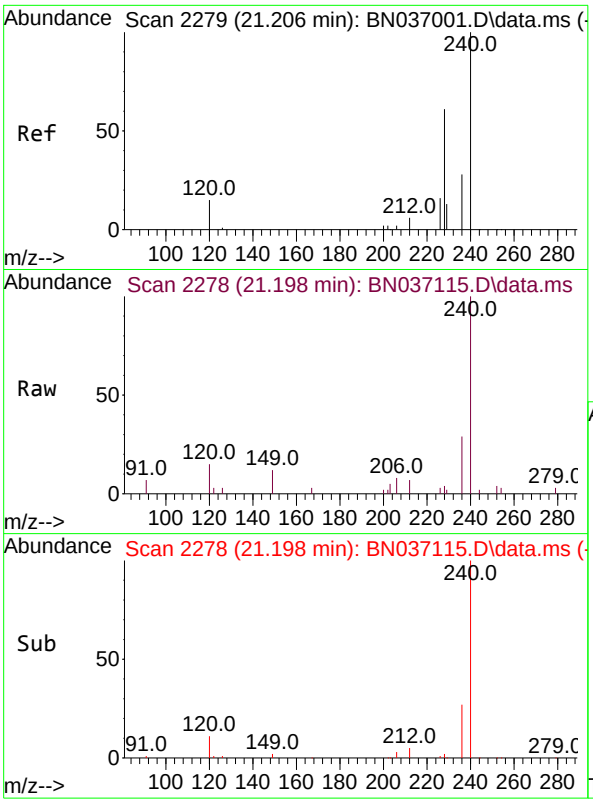


#27
Fluoranthene-d10
Concen: 0.324 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.009 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:212 Resp: 4536

Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.3	16.9
104	8.2	6.7	10.1



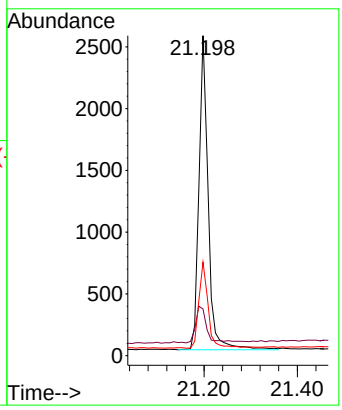


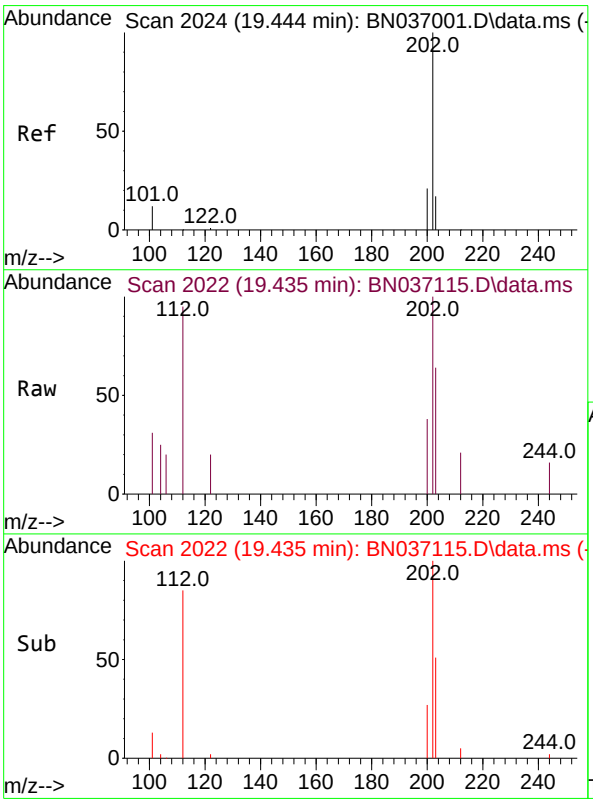
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:240 Resp: 3511

Ion	Ratio	Lower	Upper
240	100		
120	14.6	15.1	22.7#
236	29.2	24.0	36.0

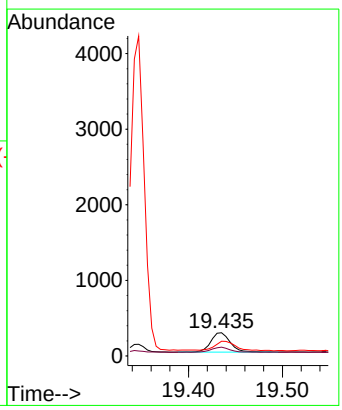


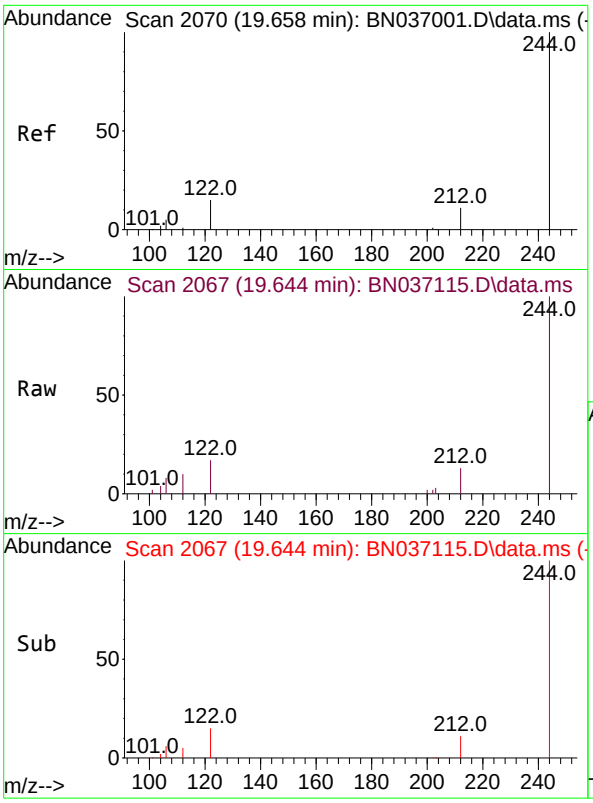


#30
Pyrene
Concen: 0.025 ng
RT: 19.435 min Scan# 2022
Delta R.T. -0.009 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:202 Resp: 371

Ion	Ratio	Lower	Upper
202	100		
200	24.8	17.1	25.7
203	53.9	14.2	21.4#



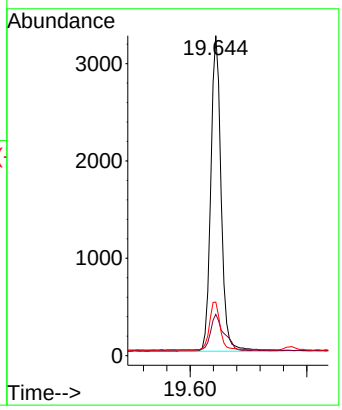


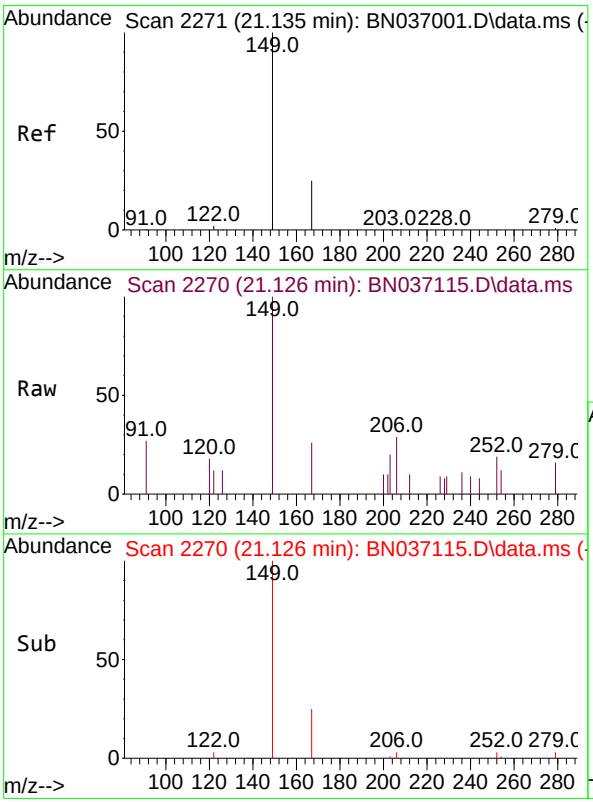
#31
Terphenyl-d14
Concen: 0.530 ng
RT: 19.644 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:244 Resp: 3979

Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.7	14.5
122	16.7	13.4	20.0

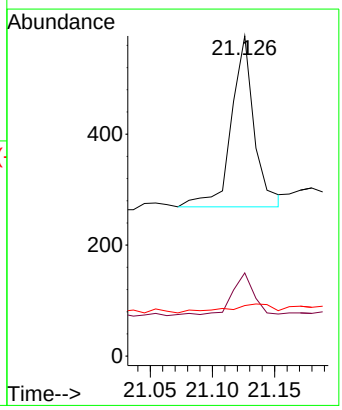


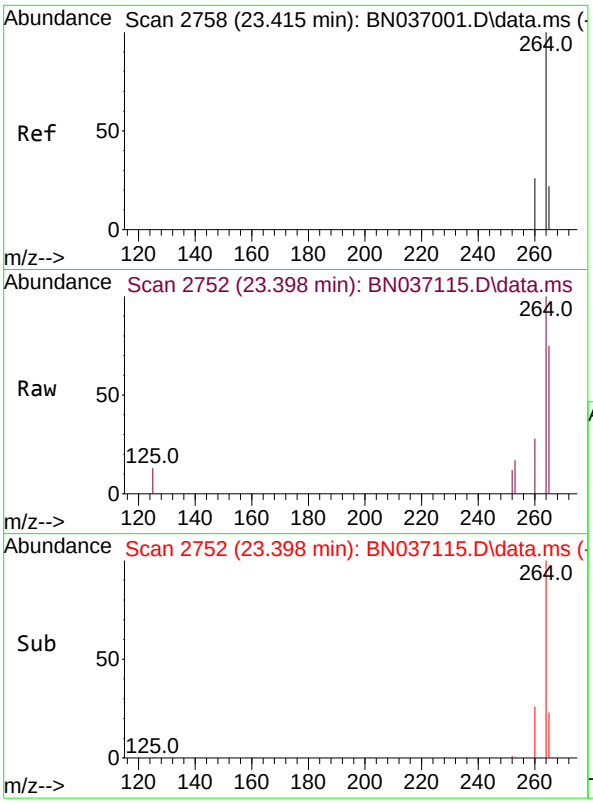


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.048 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Tgt Ion:149 Resp: 393

Ion	Ratio	Lower	Upper
149	100		
167	22.1	20.6	30.8
279	10.4	2.6	3.8#



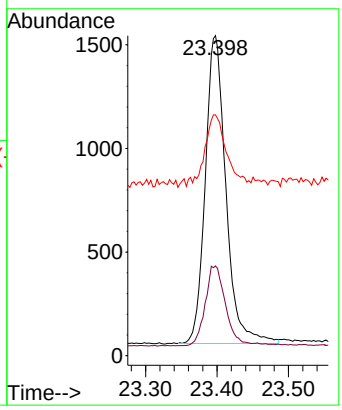


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.398 min Scan# 2
Delta R.T. -0.017 min
Lab File: BN037115.D
Acq: 28 May 2025 18:59

Instrument :
BNA_N
ClientSampleId :
BP-VPB-182-GW-300-302

Tgt Ion:264 Resp: 2983

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.9	32.9
265	75.3	51.6	77.4



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037124.D
Acq On : 29 May 2025 00:23
Operator : RC/JU
Sample : PB168100BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Quant Time: May 29 01:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

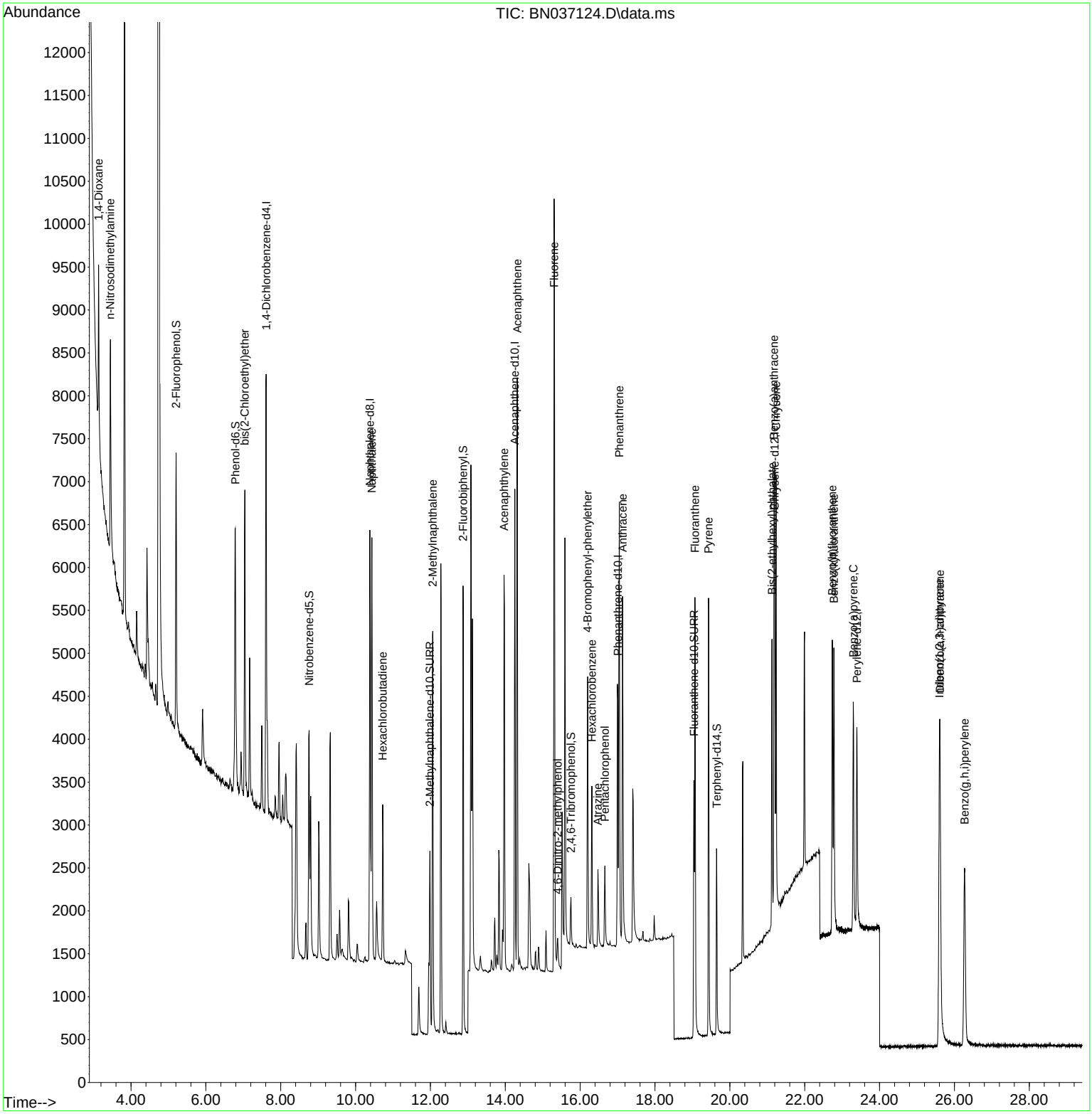
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2482	0.400	ng	0.00
7) Naphthalene-d8	10.383	136	6249	0.400	ng	#-0.02
13) Acenaphthene-d10	14.256	164	2970	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4819	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3074	0.400	ng	0.00
35) Perylene-d12	23.395	264	3112	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	2242	0.345	ng	0.00
5) Phenol-d6	6.788	99	2593	0.319	ng	0.00
8) Nitrobenzene-d5	8.760	82	2259	0.332	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	4331	0.492	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	326	0.250	ng	-0.01
15) 2-Fluorobiphenyl	12.873	172	4707	0.346	ng	-0.02
27) Fluoranthene-d10	19.040	212	3641	0.276	ng	0.00
31) Terphenyl-d14	19.649	244	2422	0.368	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.133	88	861	0.283	ng	# 36
3) n-Nitrosodimethylamine	3.444	42	2136	0.326	ng	# 90
6) bis(2-Chloroethyl)ether	7.041	93	2451	0.327	ng	99
9) Naphthalene	10.436	128	6160	0.334	ng	98
10) Hexachlorobutadiene	10.725	225	1373	0.354	ng	# 99
12) 2-Methylnaphthalene	12.062	142	3449	0.290	ng	98
16) Acenaphthylene	13.967	152	5388	0.373	ng	100
17) Acenaphthene	14.320	154	3199	0.339	ng	100
18) Fluorene	15.304	166	3917	0.316	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	334	0.363	ng	91
21) 4-Bromophenyl-phenylether	16.202	248	1107	0.364	ng	96
22) Hexachlorobenzene	16.314	284	1238	0.380	ng	99
23) Atrazine	16.475	200	861	0.324	ng	95
24) Pentachlorophenol	16.661	266	517	0.288	ng	97
25) Phenanthrene	17.046	178	5320	0.338	ng	99
26) Anthracene	17.133	178	4823	0.337	ng	99
28) Fluoranthene	19.068	202	4934	0.262	ng	98
30) Pyrene	19.430	202	4842	0.368	ng	99
32) Benzo(a)anthracene	21.180	228	3881	0.335	ng	98
33) Chrysene	21.233	228	4404	0.360	ng	98
34) Bis(2-ethylhexyl)phtha...	21.126	149	2227	0.313	ng	99
36) Indeno(1,2,3-cd)pyrene	25.599	276	4982	0.392	ng	99
37) Benzo(b)fluoranthene	22.737	252	4085	0.316	ng	95
38) Benzo(k)fluoranthene	22.781	252	4243	0.333	ng	93
39) Benzo(a)pyrene	23.298	252	3942	0.360	ng	93
40) Dibenzo(a,h)anthracene	25.614	278	3842	0.388	ng	97
41) Benzo(g,h,i)perylene	26.272	276	4293	0.399	ng	98

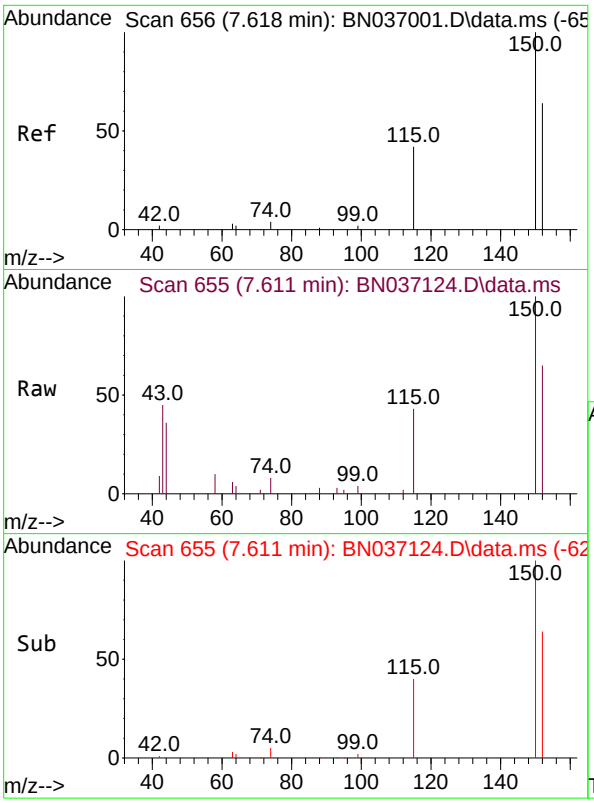
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037124.D
Acq On : 29 May 2025 00:23
Operator : RC/JU
Sample : PB168100BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Quant Time: May 29 01:34:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



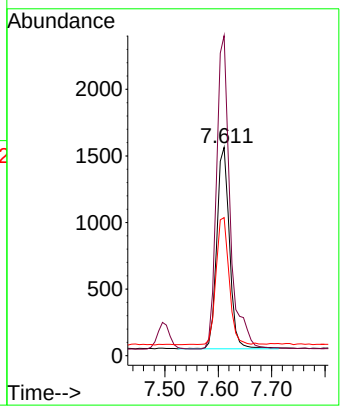


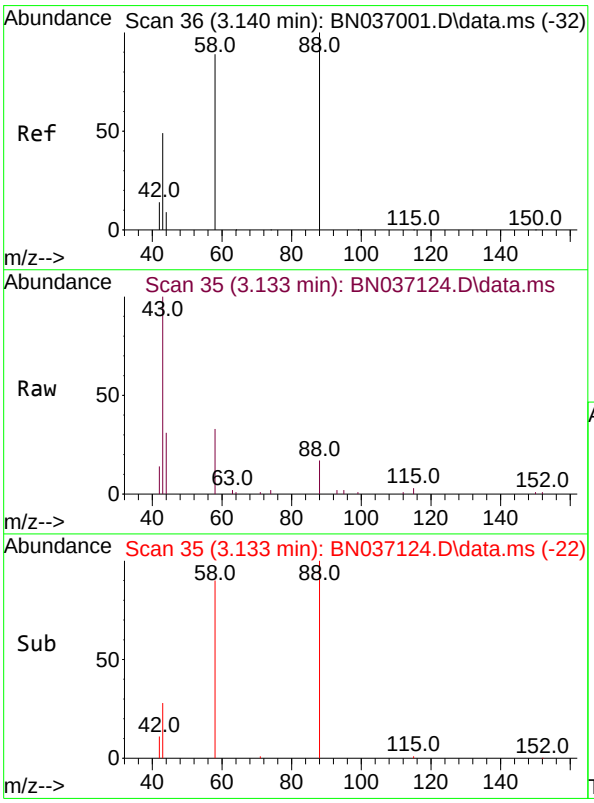
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:152 Resp: 2482

Ion	Ratio	Lower	Upper
152	100		
150	153.6	123.9	185.9
115	66.3	55.8	83.8

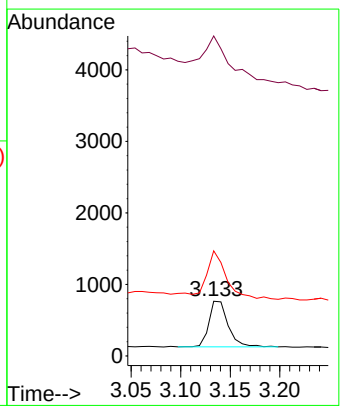


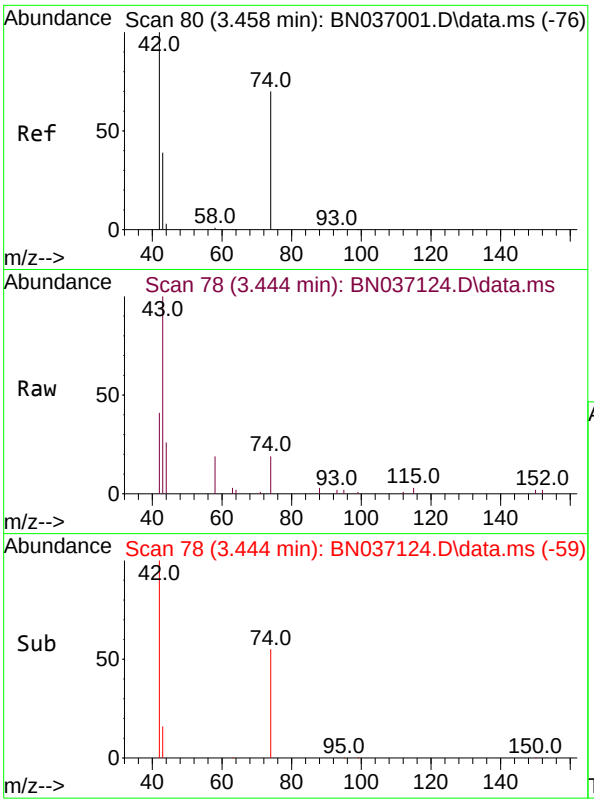


#2
1,4-Dioxane
Concen: 0.283 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion: 88 Resp: 861

Ion	Ratio	Lower	Upper
88	100		
43	139.5	37.4	56.0#
58	107.2	68.8	103.2#



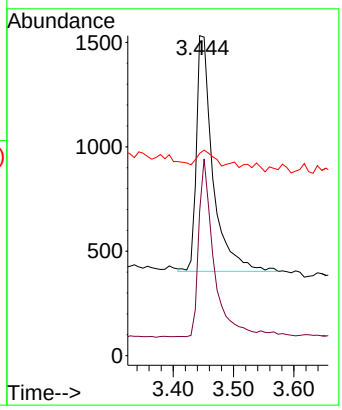


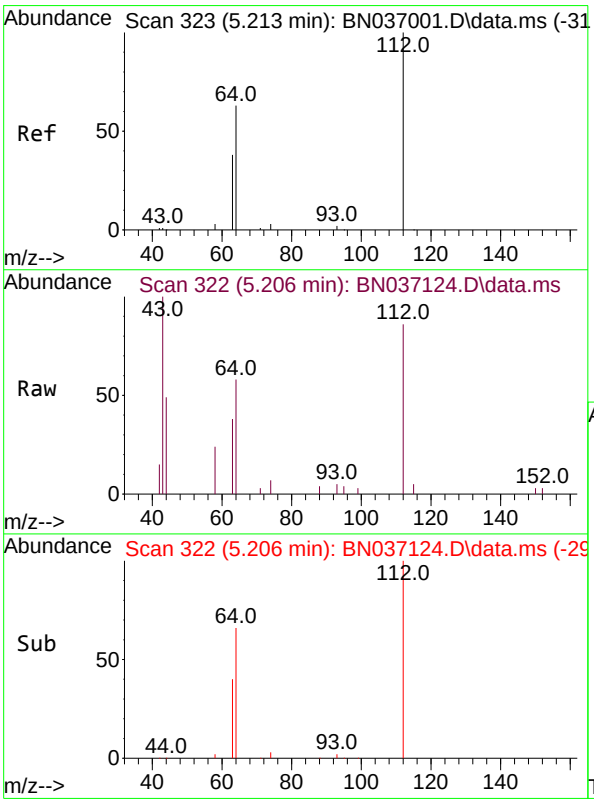
#3
n-Nitrosodimethylamine
Concen: 0.326 ng
RT: 3.444 min Scan# 7
Delta R.T. -0.014 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion: 42 Resp: 2136

Ion	Ratio	Lower	Upper
42	100		
74	68.2	59.8	89.6
44	5.3	11.9	17.9#

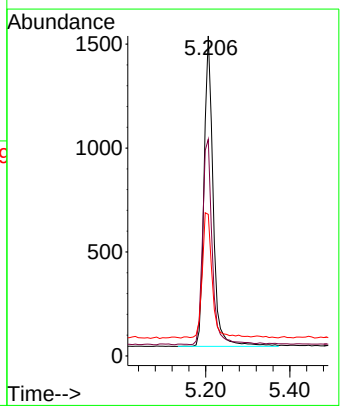


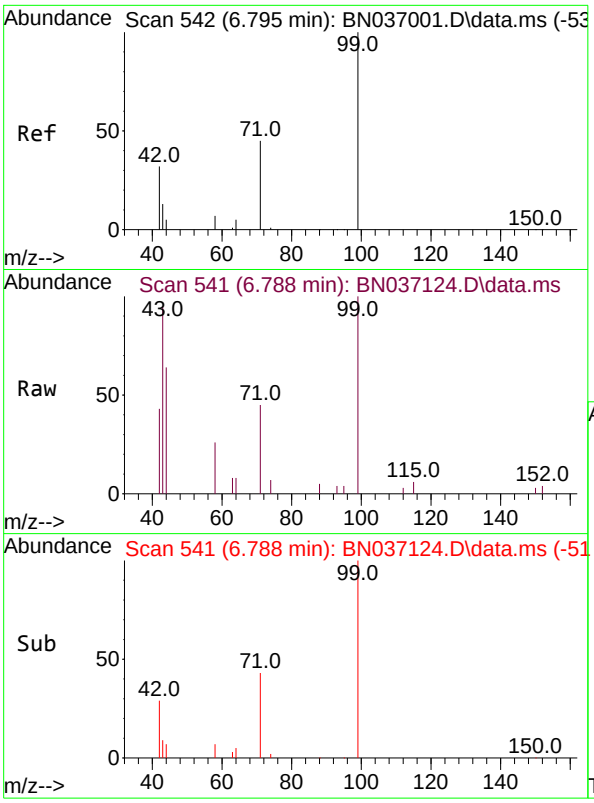


#4
2-Fluorophenol
Concen: 0.345 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:112 Resp: 2242

Ion	Ratio	Lower	Upper
112	100		
64	69.8	55.7	83.5
63	44.5	34.6	51.8



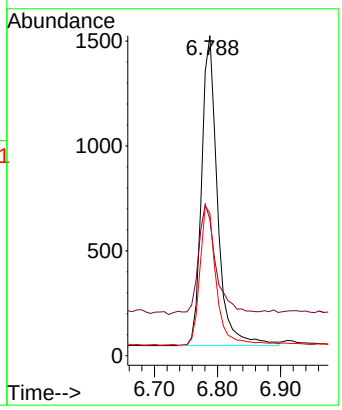


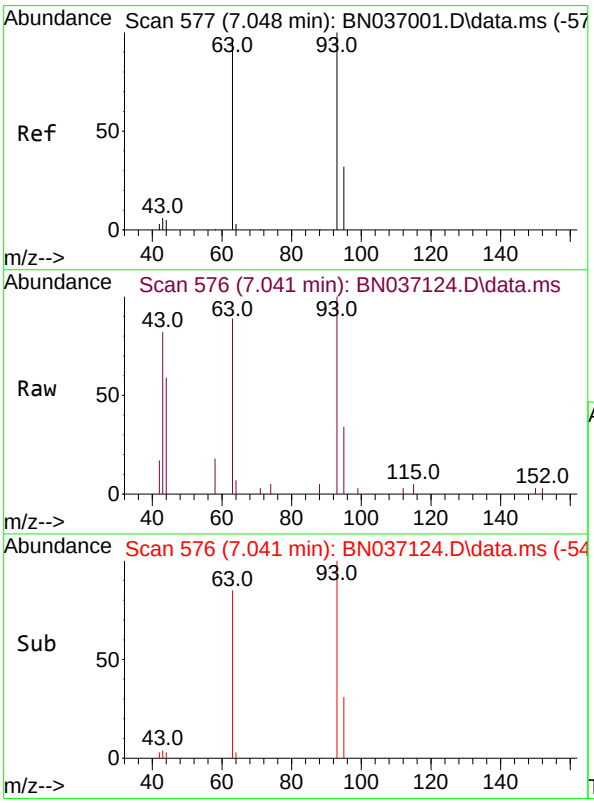
#5
Phenol-d6
Concen: 0.319 ng
RT: 6.788 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion: 99 Resp: 2593

Ion	Ratio	Lower	Upper
99	100		
42	39.8	29.3	43.9
71	46.2	35.7	53.5

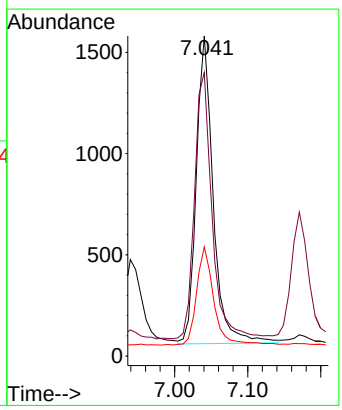


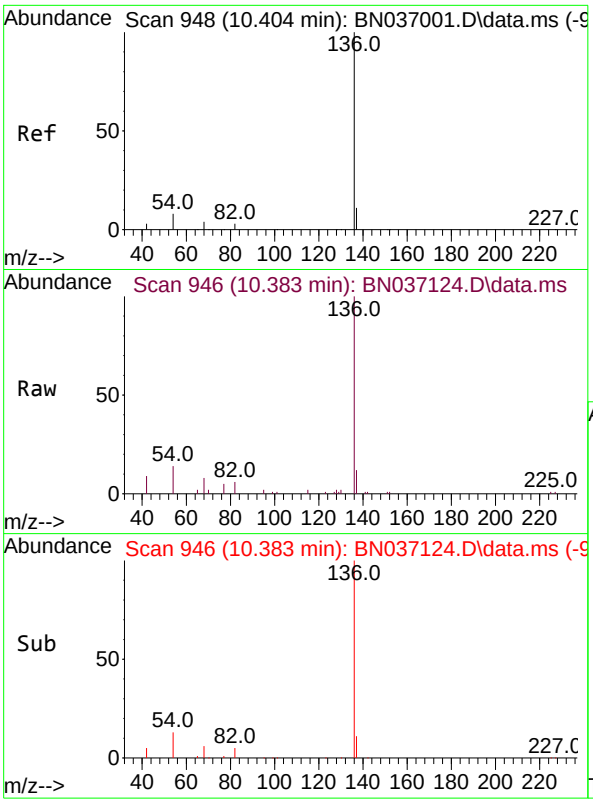


#6
bis(2-Chloroethyl)ether
Concen: 0.327 ng
RT: 7.041 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion: 93 Resp: 2451

Ion	Ratio	Lower	Upper
93	100		
63	88.7	70.1	105.1
95	32.7	26.2	39.2



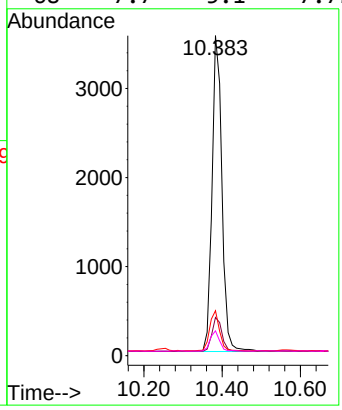


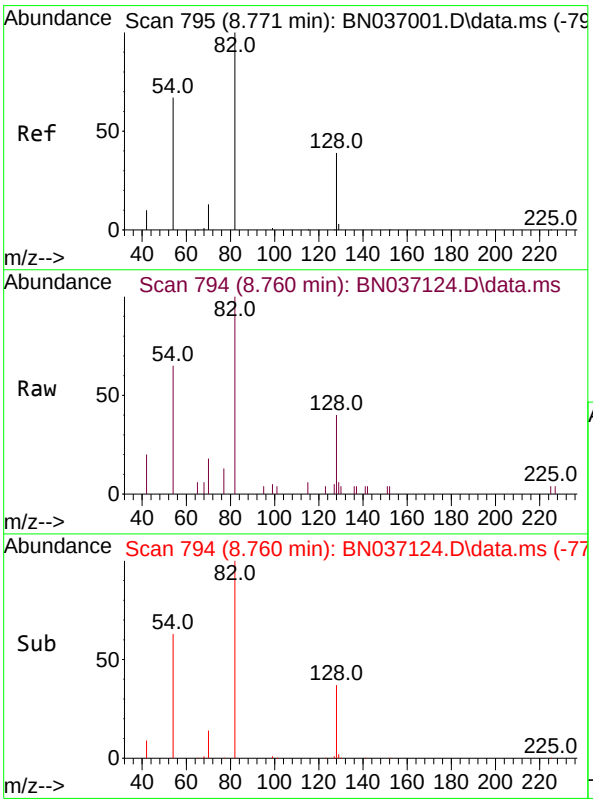
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:136 Resp: 6249

Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.4	15.6
54	14.0	8.5	12.7#
68	7.7	5.1	7.7#

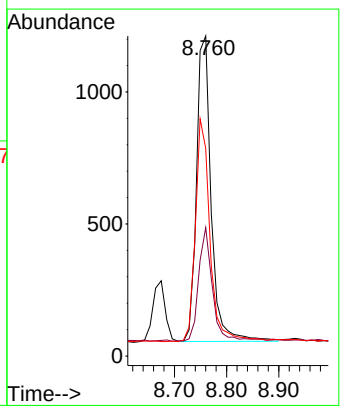


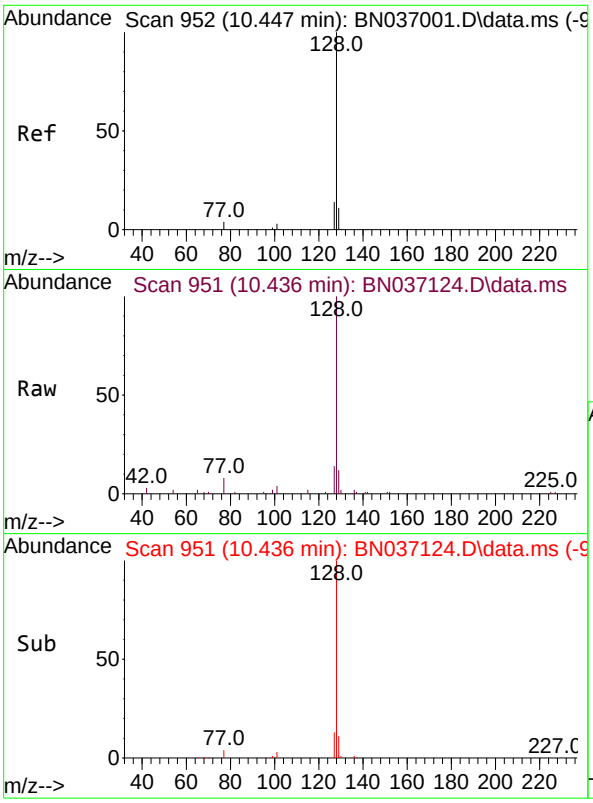


#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion: 82 Resp: 2259

Ion	Ratio	Lower	Upper
82	100		
128	40.1	34.0	51.0
54	64.9	55.0	82.4



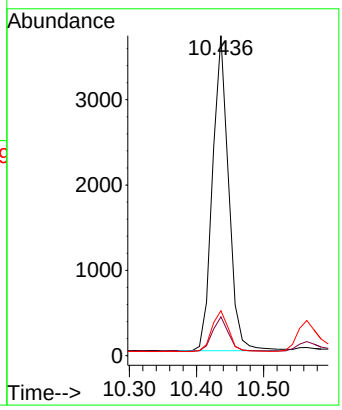


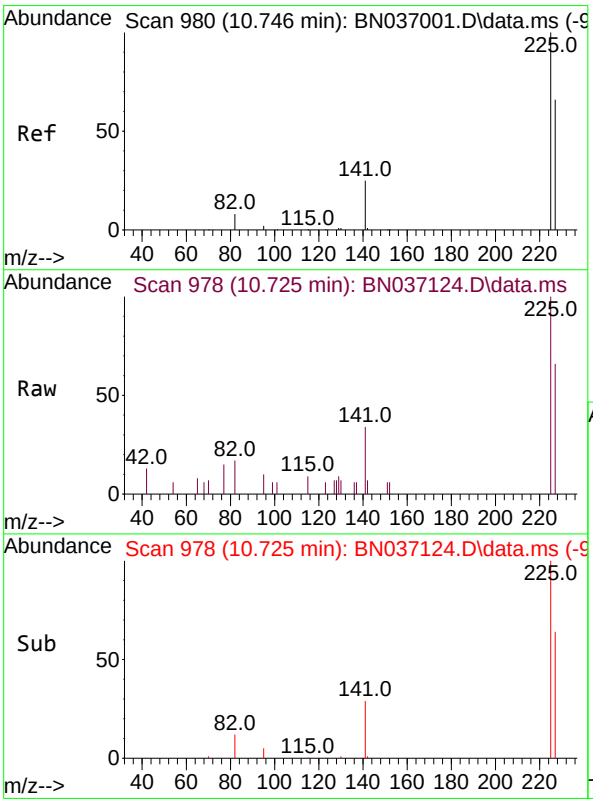
#9
Naphthalene
Concen: 0.334 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:128 Resp: 6160

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.7	14.5
127	14.0	12.4	18.6

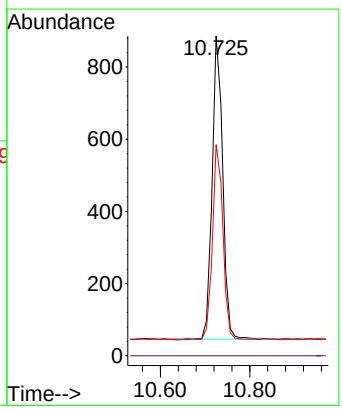


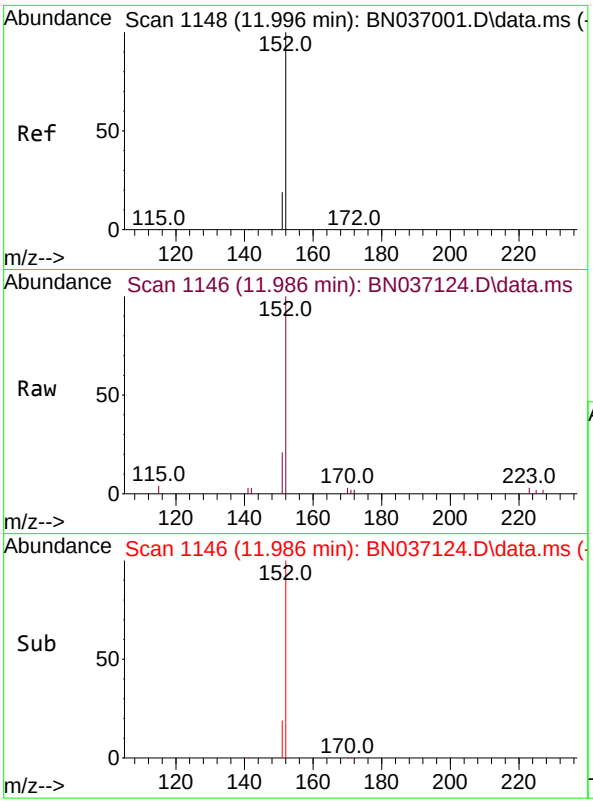


#10
Hexachlorobutadiene
Concen: 0.354 ng
RT: 10.725 min Scan# 978
Delta R.T. -0.021 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:225 Resp: 1373

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	50.9	76.3



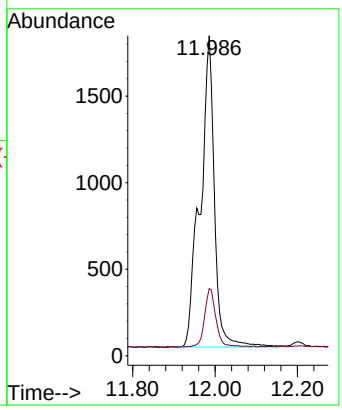


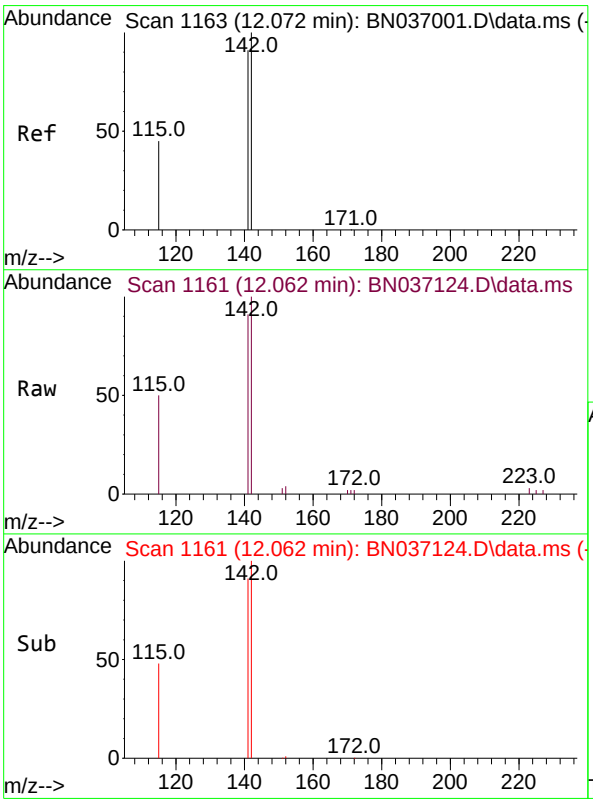
#11
2-Methylnaphthalene-d10
Concen: 0.492 ng
RT: 11.986 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:152 Resp: 4331

Ion	Ratio	Lower	Upper
152	100		
151	15.1	17.5	26.3#

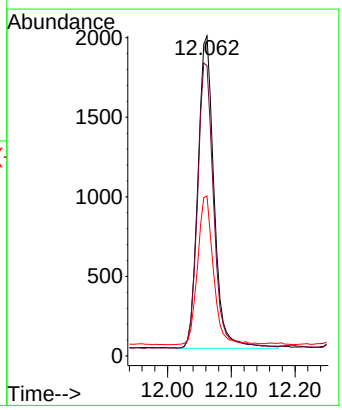


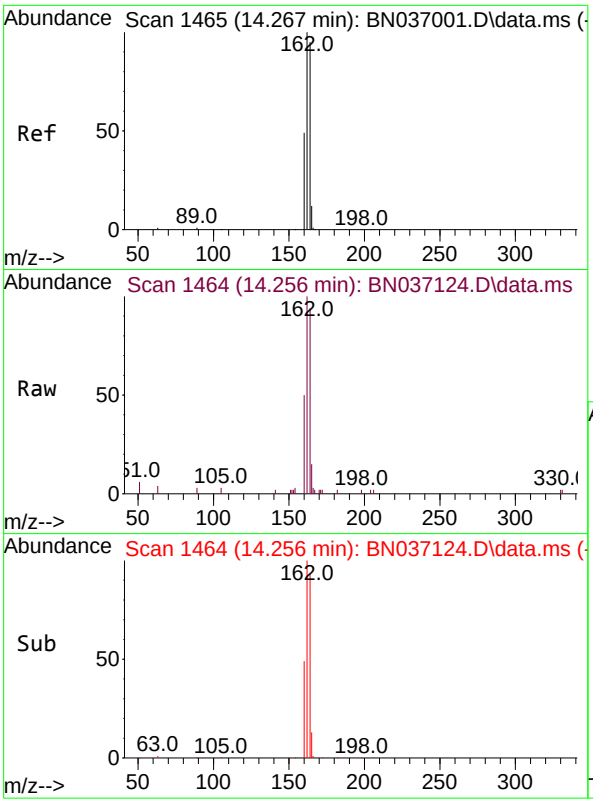


#12
2-Methylnaphthalene
Concen: 0.290 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:142 Resp: 3449

Ion	Ratio	Lower	Upper
142	100		
141	90.7	73.3	109.9
115	50.0	38.4	57.6



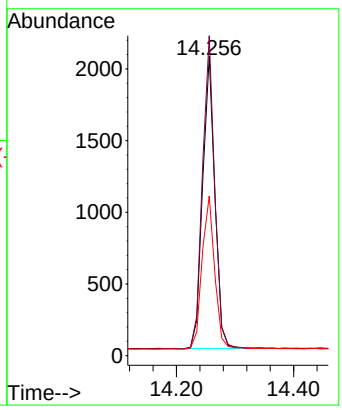


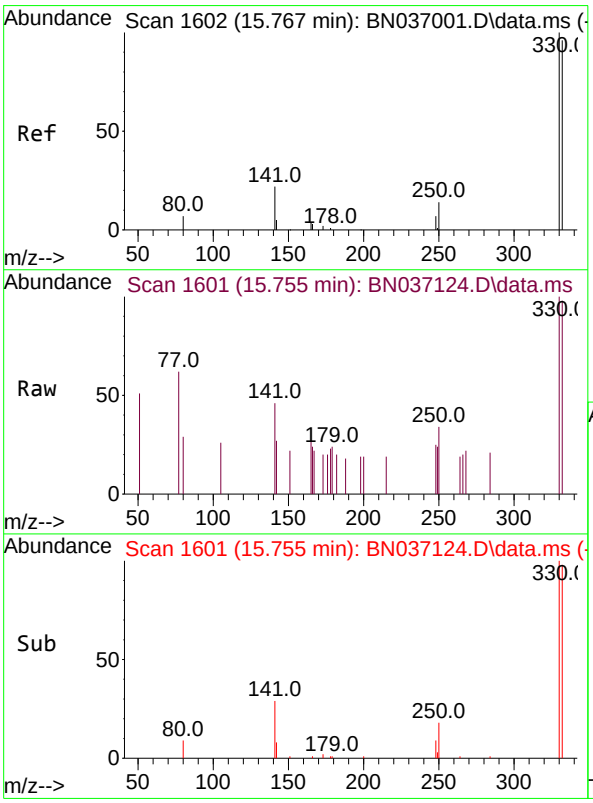
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:164 Resp: 2970

Ion	Ratio	Lower	Upper
164	100		
162	106.8	84.2	126.4
160	53.3	42.6	63.8

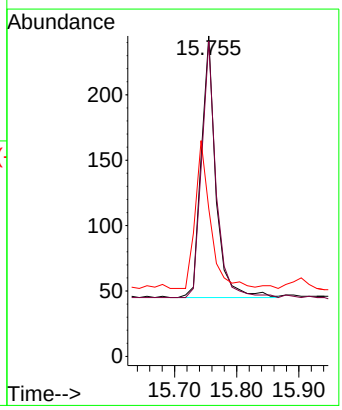


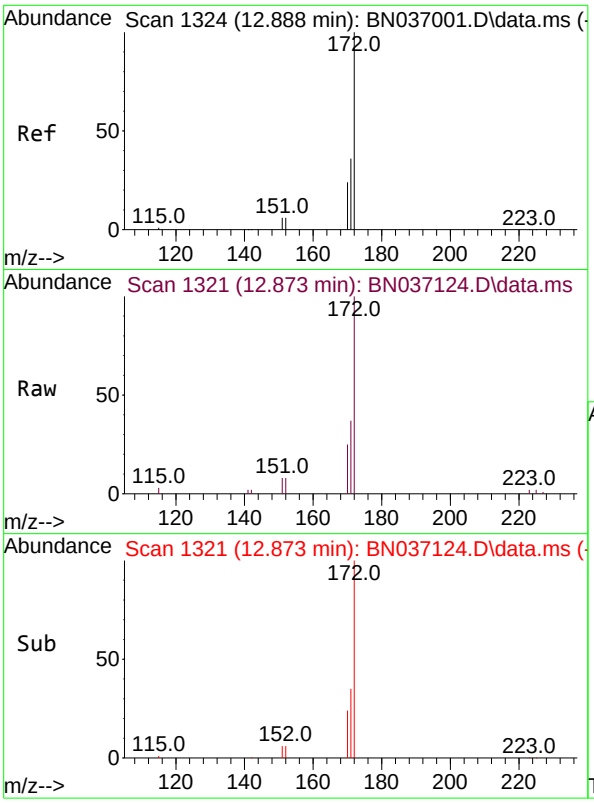


#14
2,4,6-Tribromophenol
Concen: 0.250 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:330 Resp: 326

Ion	Ratio	Lower	Upper
330	100		
332	97.2	73.8	110.8
141	58.3	43.9	65.9



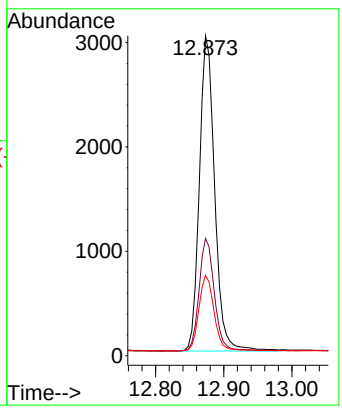


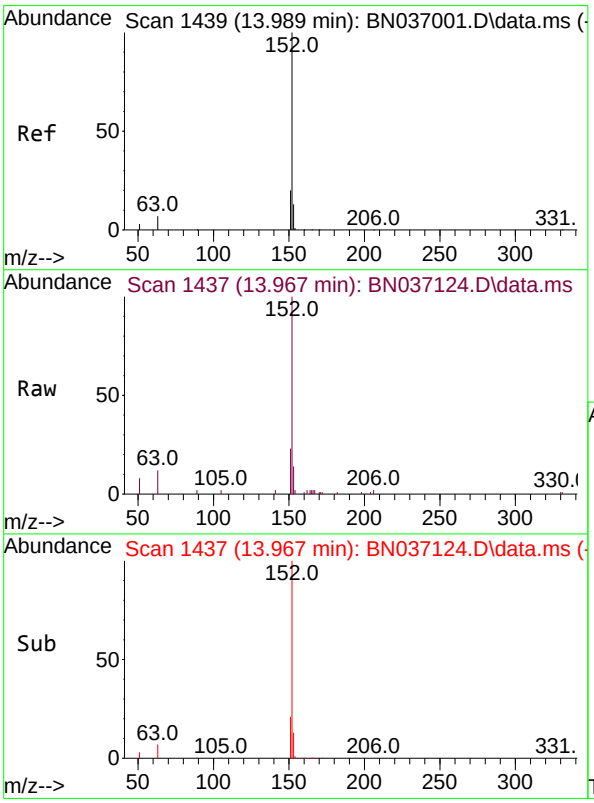
#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.873 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:172 Resp: 4707

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.2	43.8
170	25.1	20.5	30.7

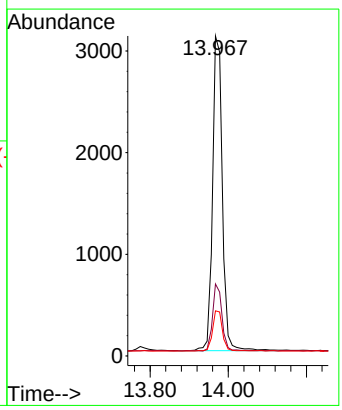


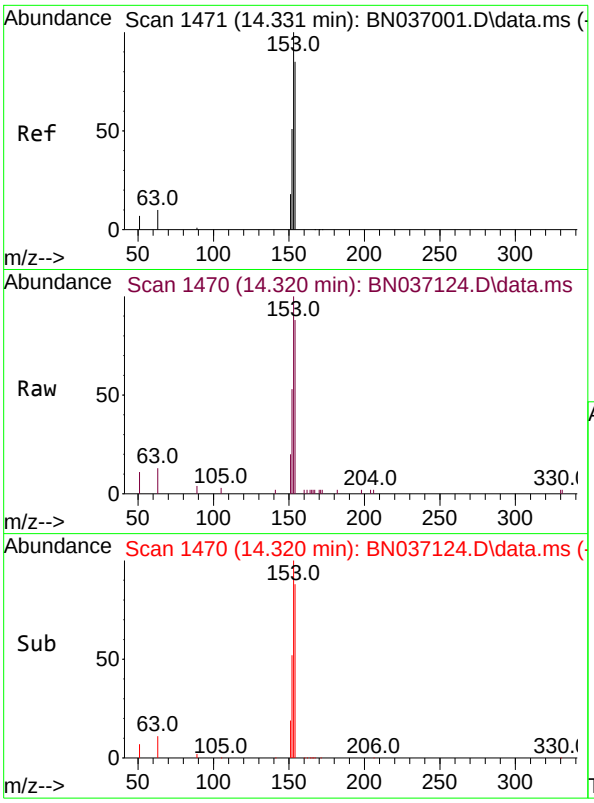


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:152 Resp: 5388

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	12.9	10.5	15.7



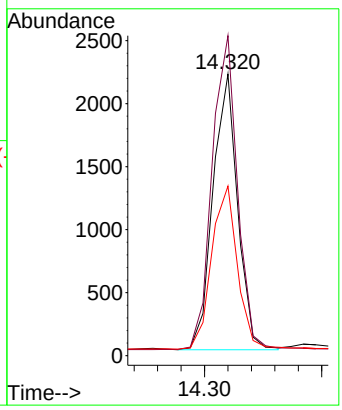


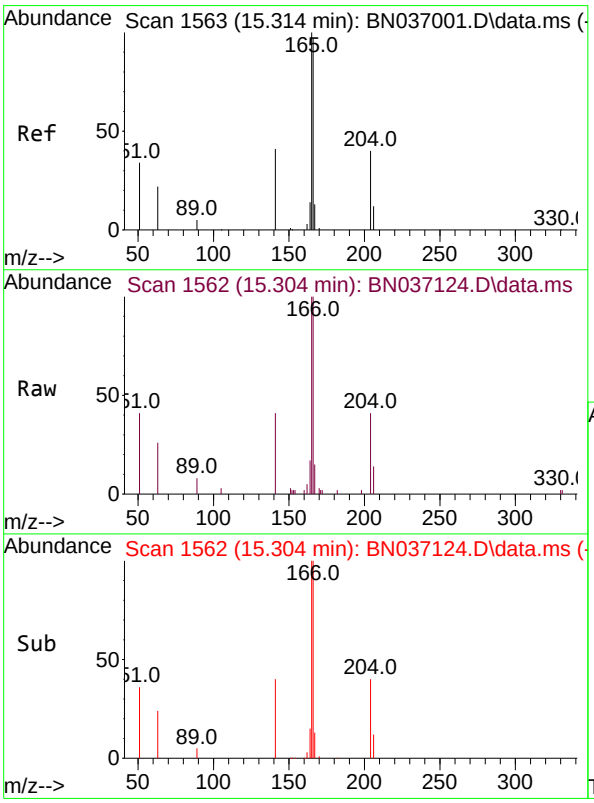
#17
Acenaphthene
Concen: 0.339 ng
RT: 14.320 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:154 Resp: 3199

Ion	Ratio	Lower	Upper
154	100		
153	117.4	94.2	141.4
152	61.6	49.4	74.0

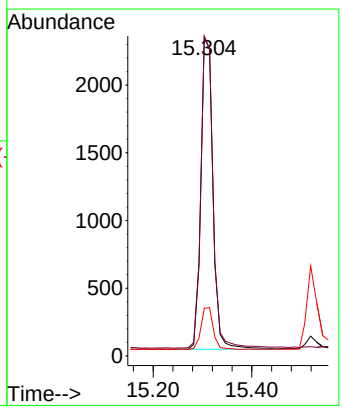


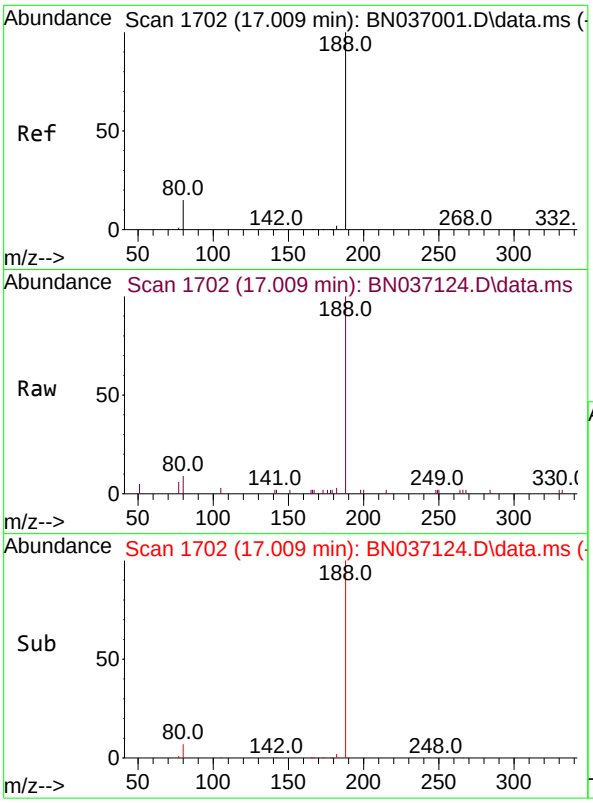


#18
Fluorene
Concen: 0.316 ng
RT: 15.304 min Scan# 1562
Delta R.T. -0.011 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:166 Resp: 3917

Ion	Ratio	Lower	Upper
166	100		
165	100.5	80.6	120.8
167	13.5	10.6	16.0



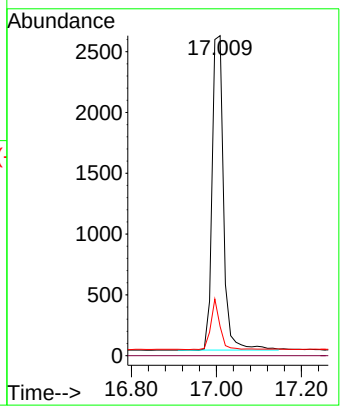


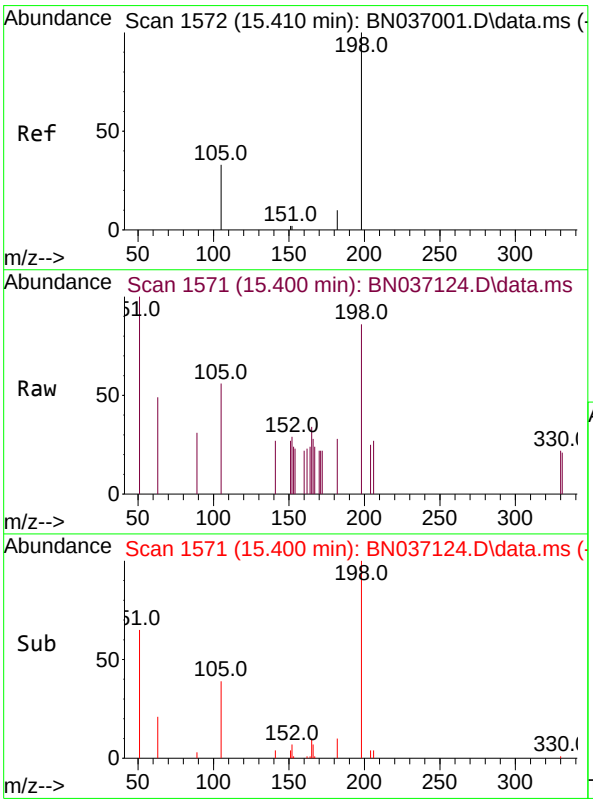
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:188 Resp: 4819

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.1	13.4	20.0#

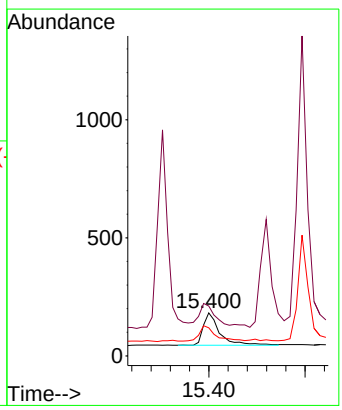


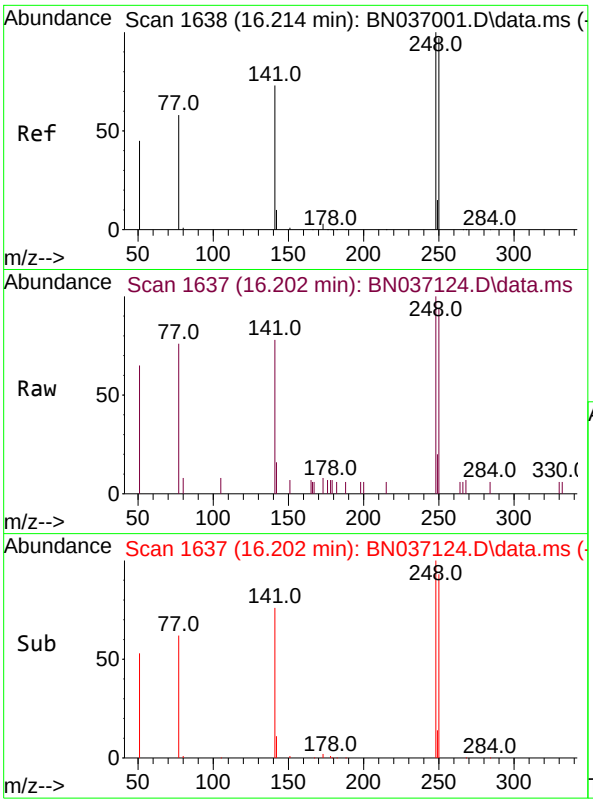


#20
4,6-Dinitro-2-methylphenol
Concen: 0.363 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:198 Resp: 334

Ion	Ratio	Lower	Upper
198	100		
51	115.9	87.8	131.6
105	65.4	44.2	66.4



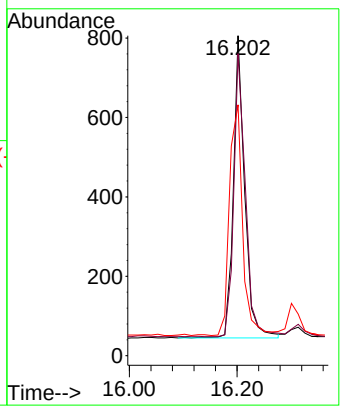


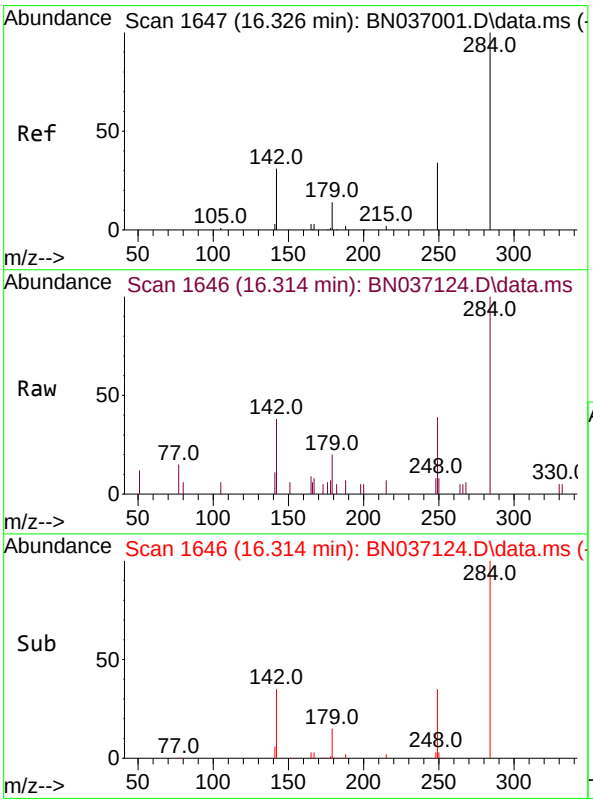
#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:248 Resp: 1107

Ion	Ratio	Lower	Upper
248	100		
250	94.4	78.1	117.1
141	78.4	59.7	89.5

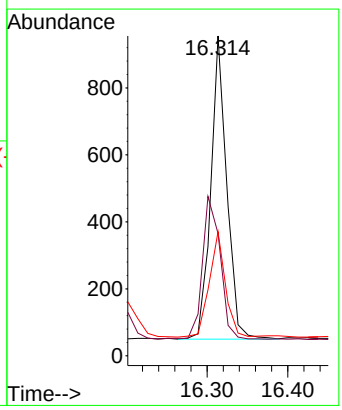


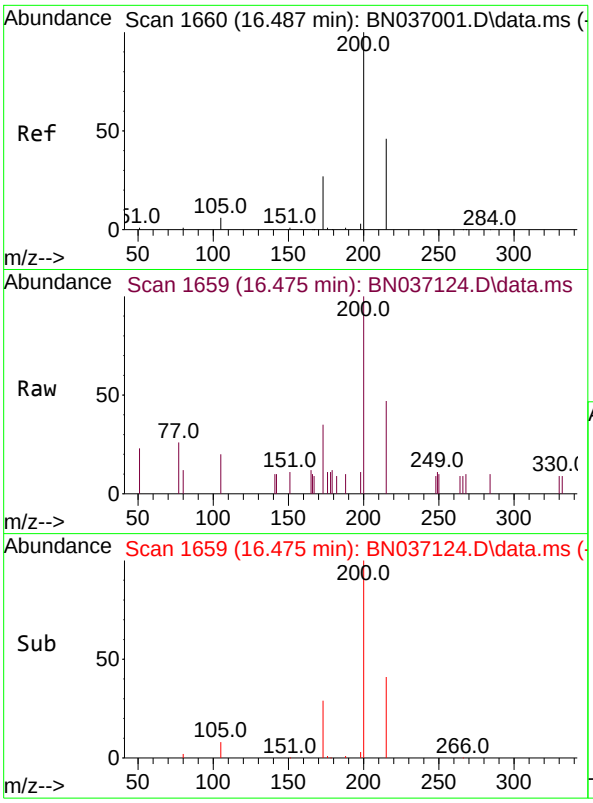


#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.314 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:284 Resp: 1238

Ion	Ratio	Lower	Upper
284	100		
142	52.4	41.2	61.8
249	35.2	28.7	43.1



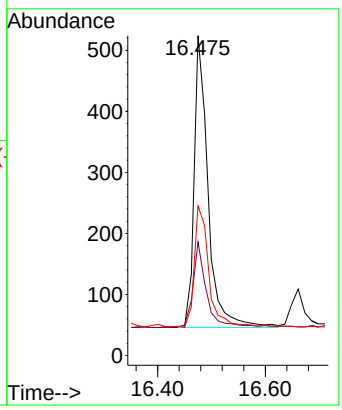


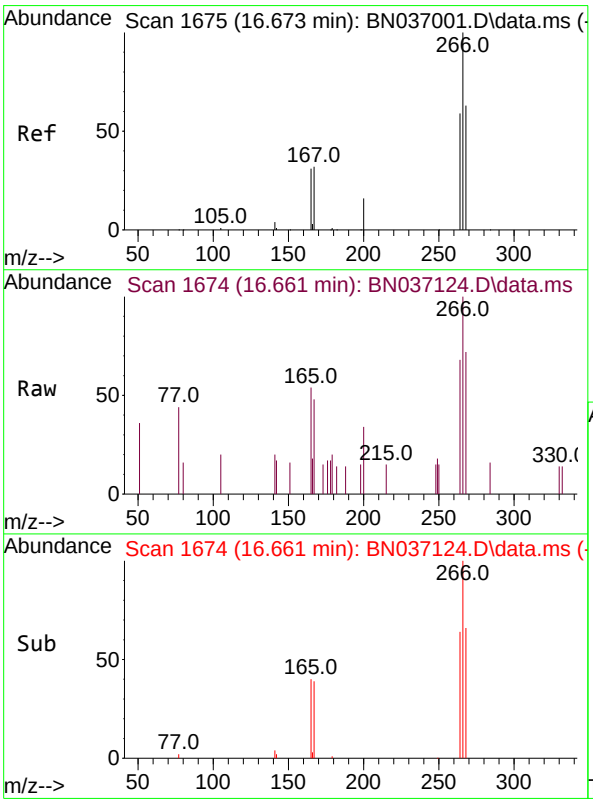
#23
Atrazine
Concen: 0.324 ng
RT: 16.475 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:200 Resp: 861

Ion	Ratio	Lower	Upper
200	100		
173	35.5	25.2	37.8
215	46.8	39.3	58.9

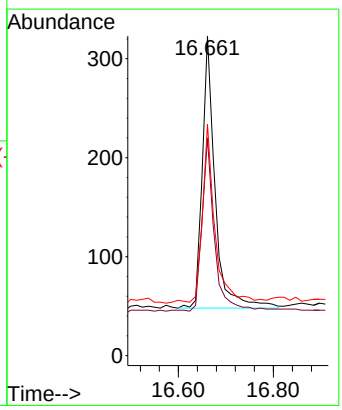


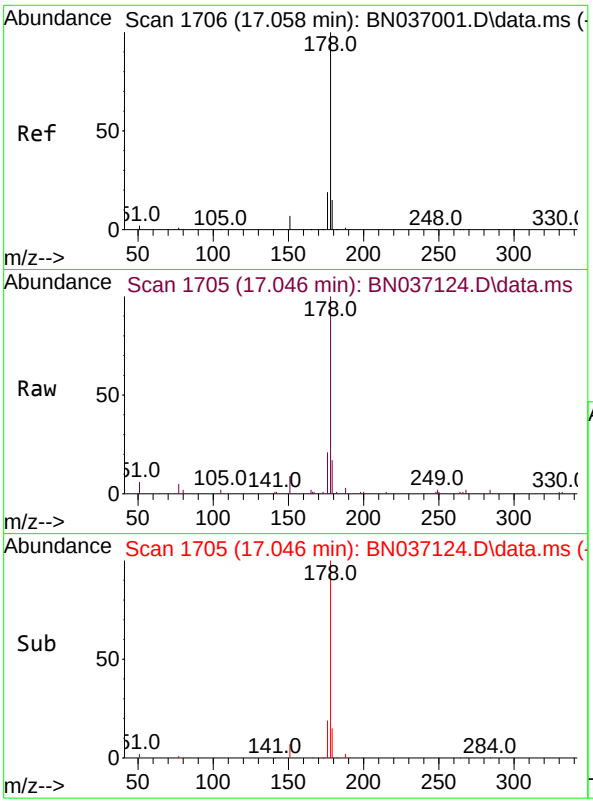


#24
Pentachlorophenol
Concen: 0.288 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:266 Resp: 517

Ion	Ratio	Lower	Upper
266	100		
264	61.7	47.9	71.9
268	65.4	50.0	75.0



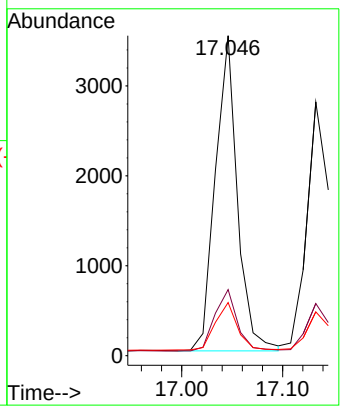


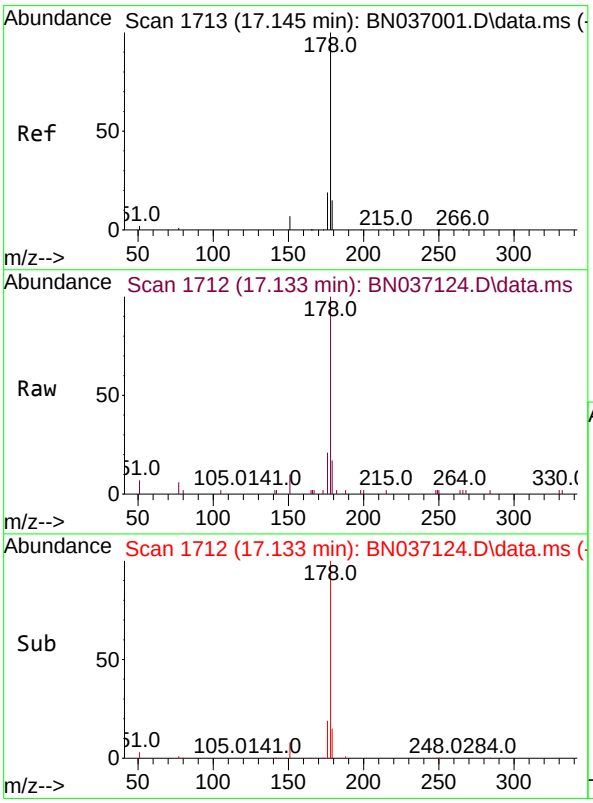
#25
Phenanthrene
Concen: 0.338 ng
RT: 17.046 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:178 Resp: 5320

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.7	23.5
179	15.4	12.2	18.2

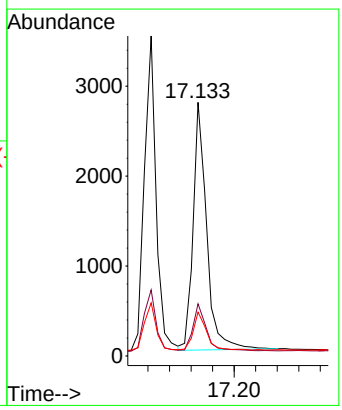


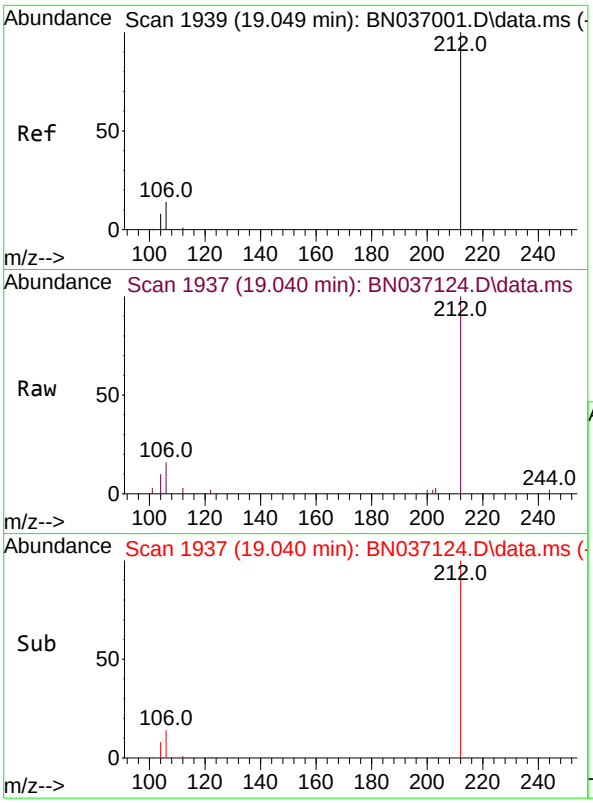


#26
Anthracene
Concen: 0.337 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:178 Resp: 4823

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.0	12.3	18.5



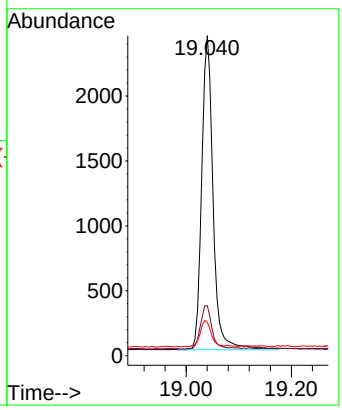


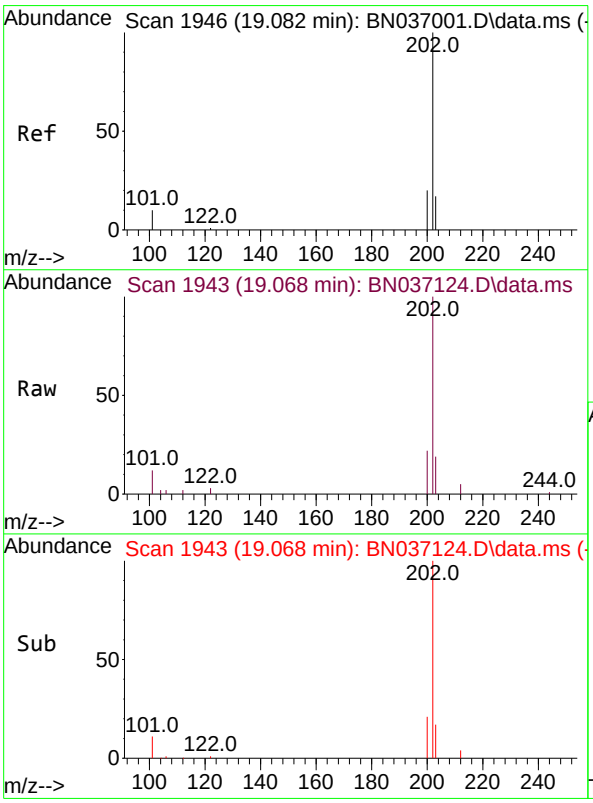
#27
Fluoranthene-d10
Concen: 0.276 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:212 Resp: 3641

Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.3	16.9
104	8.2	6.7	10.1

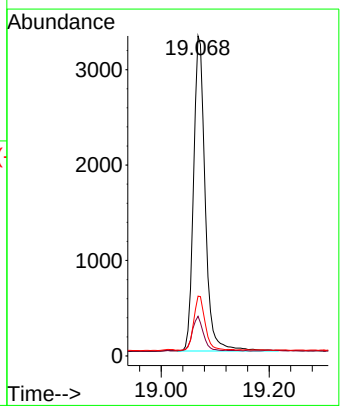


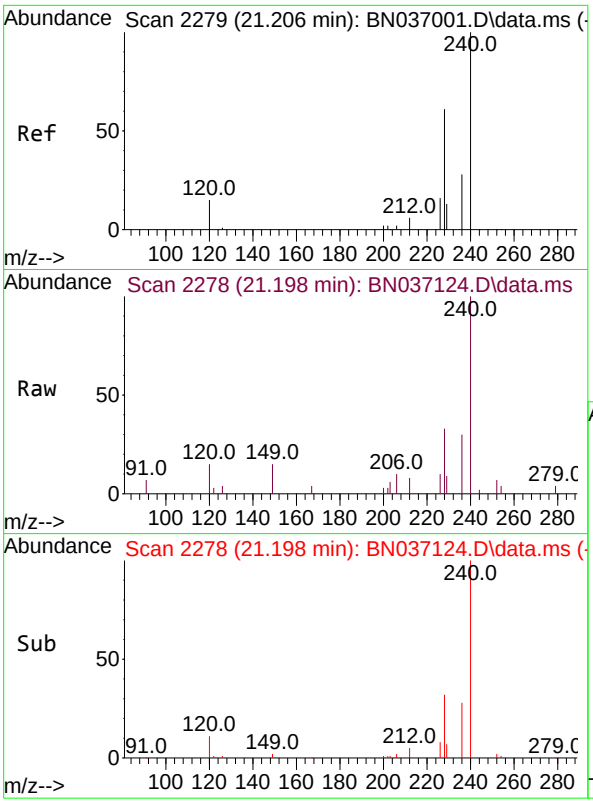


#28
Fluoranthene
Concen: 0.262 ng
RT: 19.068 min Scan# 1943
Delta R.T. -0.014 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:202 Resp: 4934

Ion	Ratio	Lower	Upper
202	100		
101	10.3	8.9	13.3
203	16.8	13.8	20.8



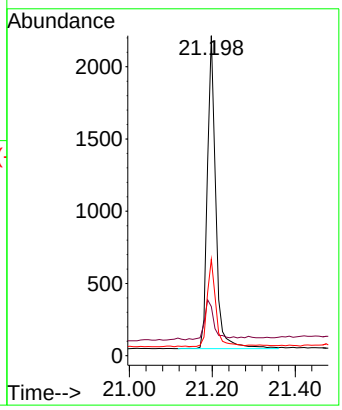


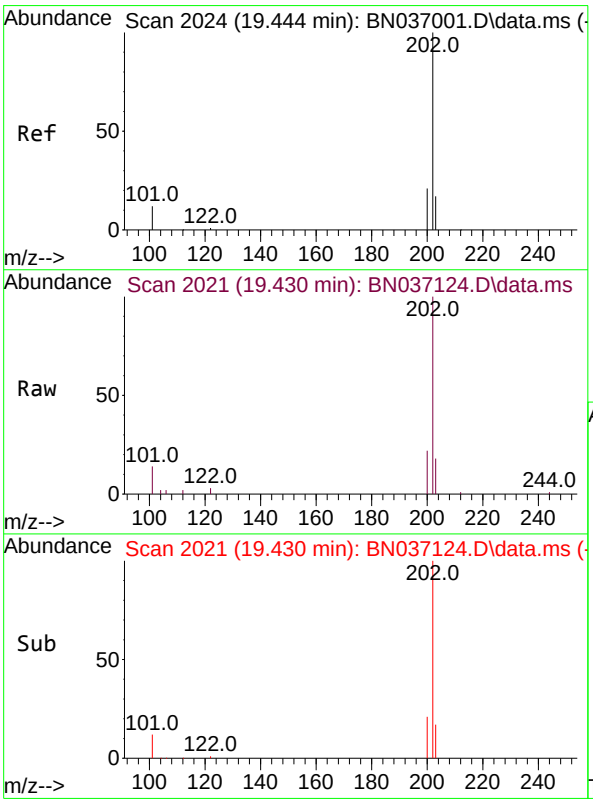
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:240 Resp: 3074

Ion	Ratio	Lower	Upper
240	100		
120	15.3	15.1	22.7
236	30.1	24.0	36.0

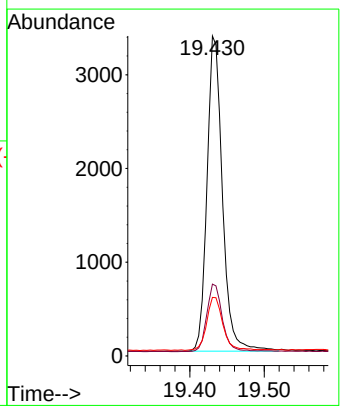


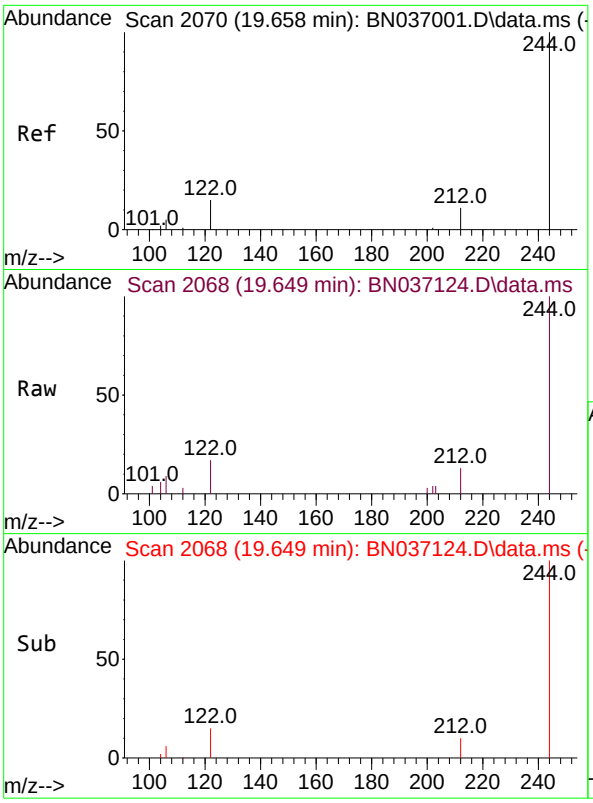


#30
Pyrene
Concen: 0.368 ng
RT: 19.430 min Scan# 2021
Delta R.T. -0.014 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:202 Resp: 4842

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.1	25.7
203	17.9	14.2	21.4



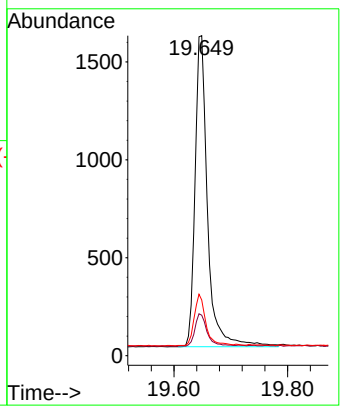


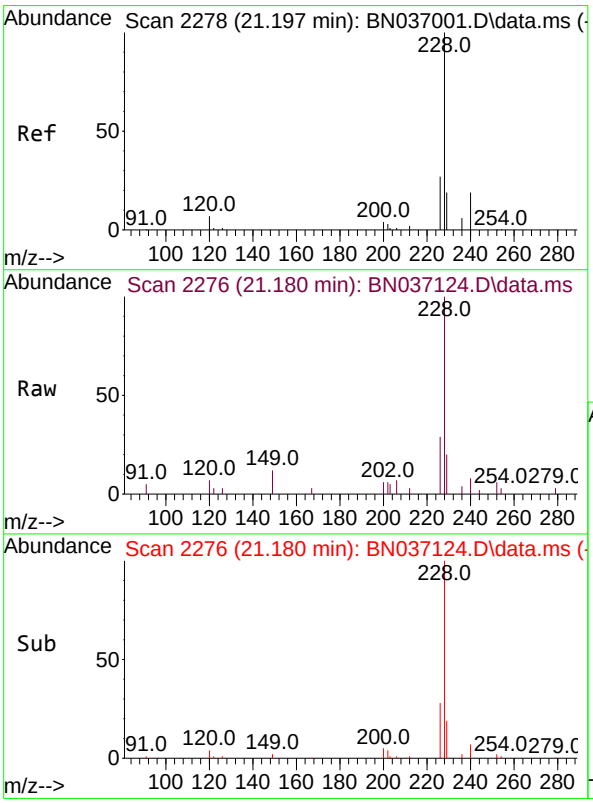
#31
Terphenyl-d14
Concen: 0.368 ng
RT: 19.649 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:244 Resp: 2422

Ion	Ratio	Lower	Upper
244	100		
212	12.7	9.7	14.5
122	17.4	13.4	20.0

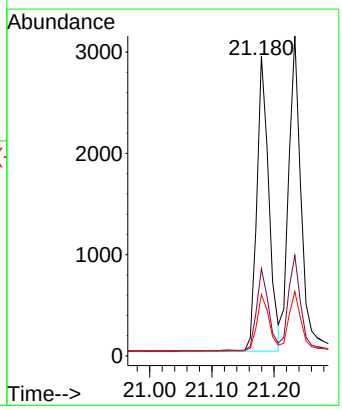


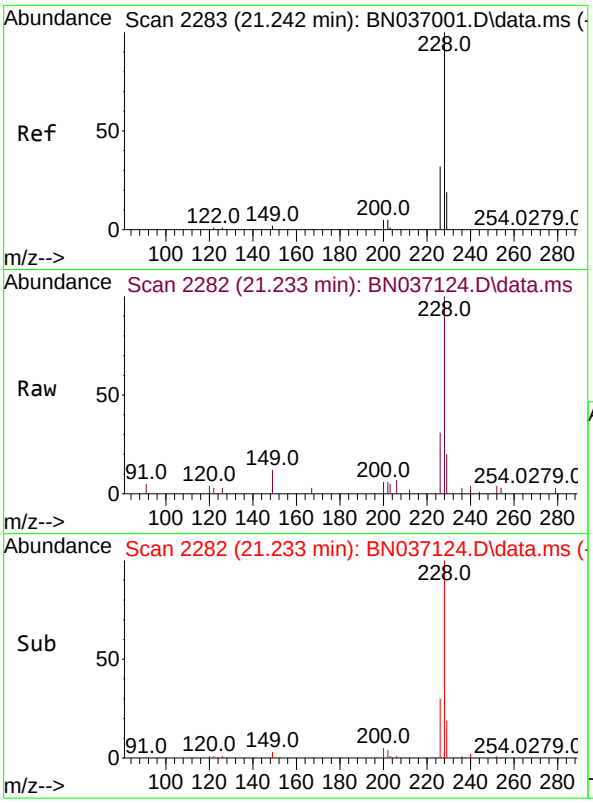


#32
Benzo(a)anthracene
Concen: 0.335 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.018 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:228 Resp: 3881

Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.2	33.4
229	20.5	16.0	24.0



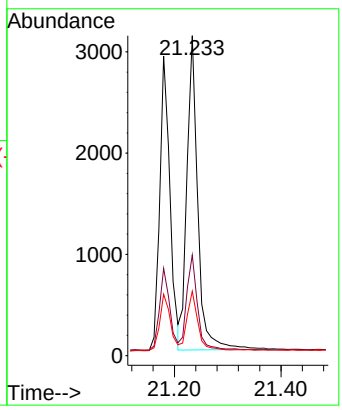


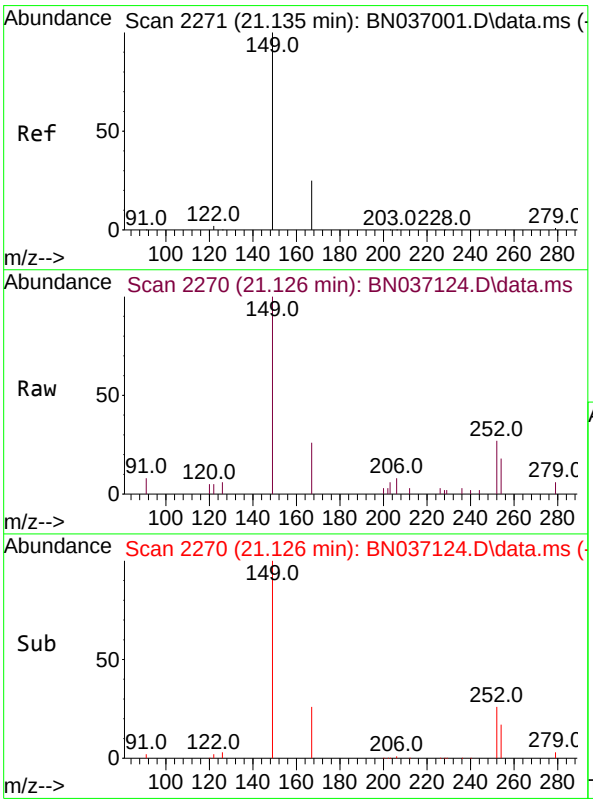
#33
Chrysene
Concen: 0.360 ng
RT: 21.233 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:228 Resp: 4404

Ion	Ratio	Lower	Upper
228	100		
226	31.4	26.3	39.5
229	20.2	16.2	24.2

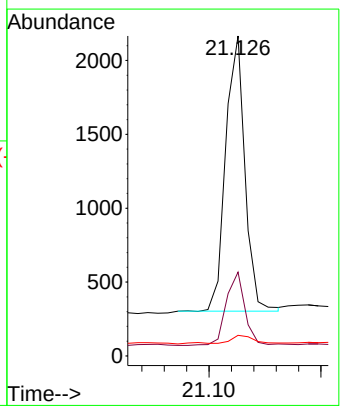


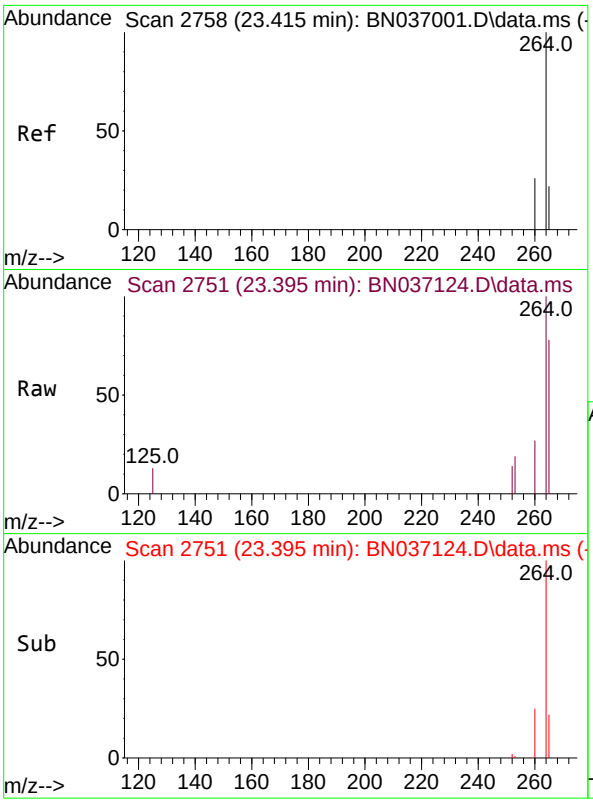


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.313 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:149 Resp: 2227

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.6	30.8
279	3.2	2.6	3.8



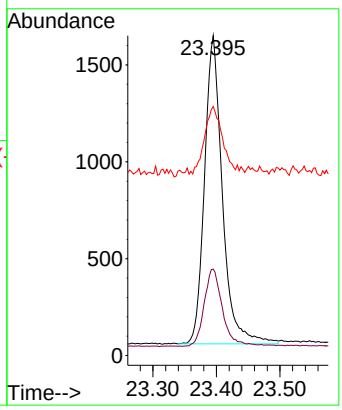


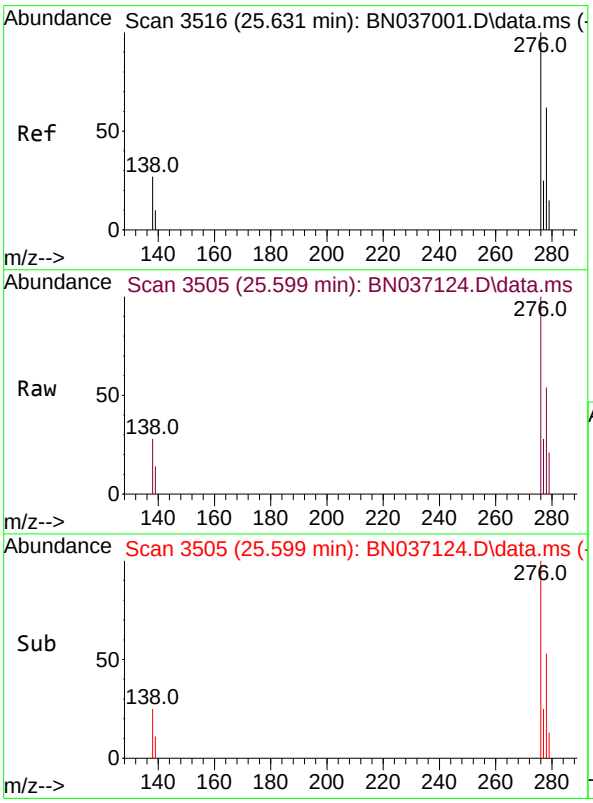
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.395 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:264 Resp: 3112

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.9	32.9
265	77.8	51.6	77.4#

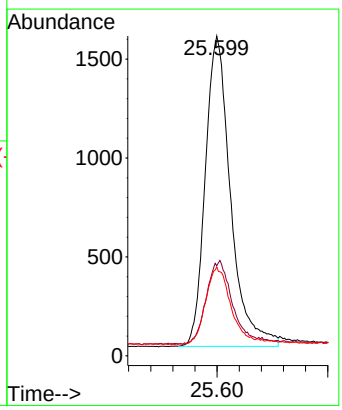


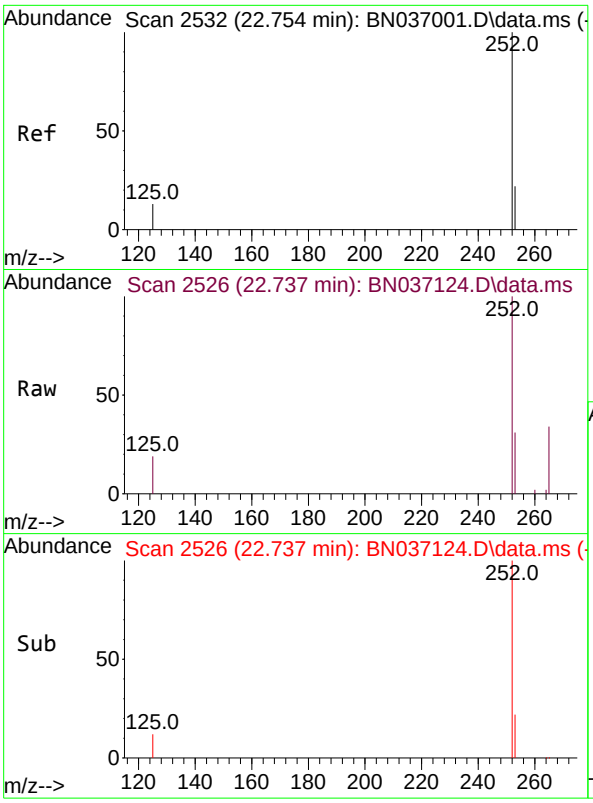


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.392 ng
RT: 25.599 min Scan# 3505
Delta R.T. -0.032 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:276 Resp: 4982

Ion	Ratio	Lower	Upper
276	100		
138	27.6	22.7	34.1
277	24.4	20.0	30.0



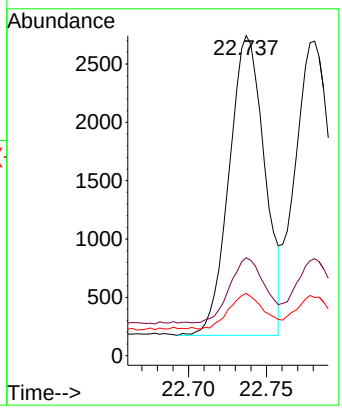


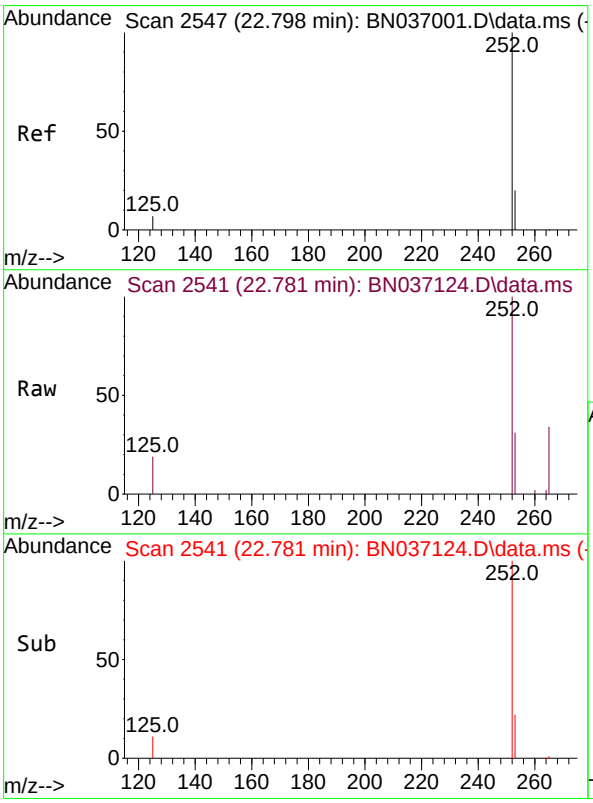
#37
Benzo(b)fluoranthene
Concen: 0.316 ng
RT: 22.737 min Scan# 2
Delta R.T. -0.017 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:252 Resp: 4085

Ion	Ratio	Lower	Upper
252	100		
253	30.6	21.8	32.6
125	19.5	14.6	21.8

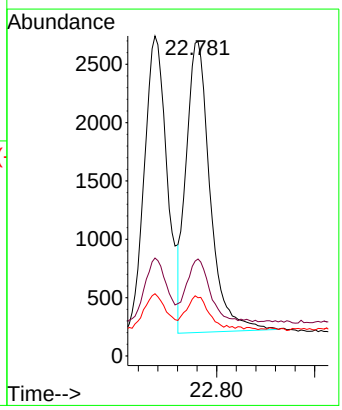


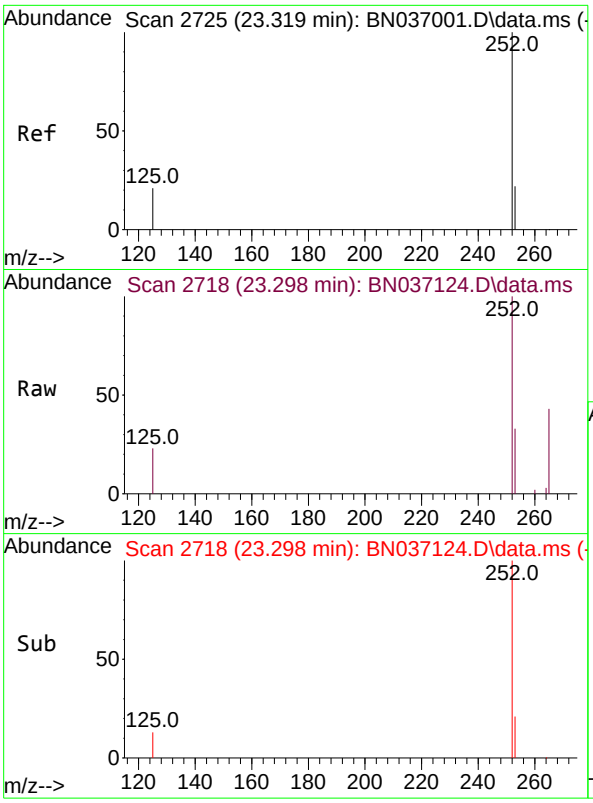


#38
Benzo(k)fluoranthene
Concen: 0.333 ng
RT: 22.781 min Scan# 2541
Delta R.T. -0.017 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:252 Resp: 4243

Ion	Ratio	Lower	Upper
252	100		
253	30.8	21.4	32.2
125	18.5	13.0	19.4



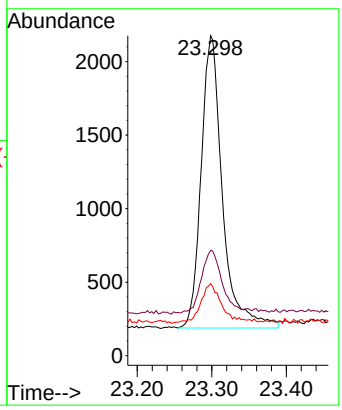


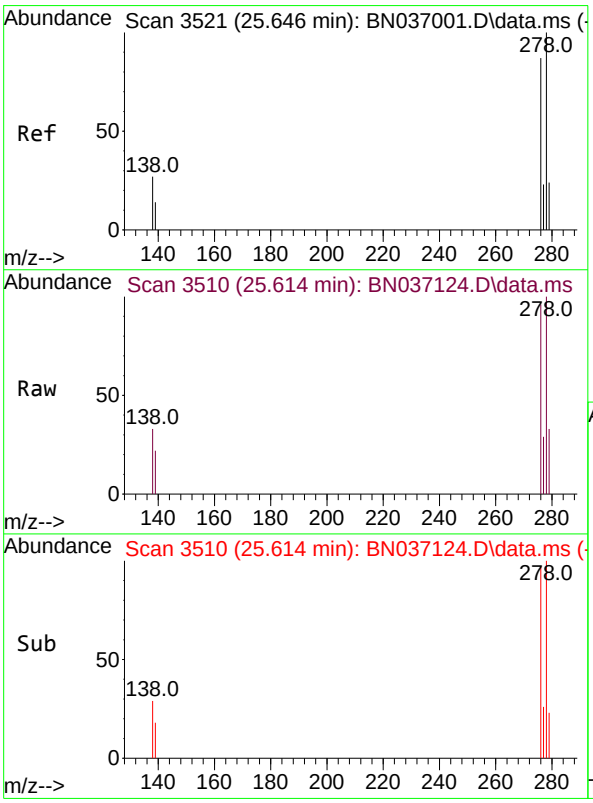
#39
Benzo(a)pyrene
Concen: 0.360 ng
RT: 23.298 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:252 Resp: 3942

Ion	Ratio	Lower	Upper
252	100		
253	32.9	23.8	35.6
125	22.5	21.8	32.6

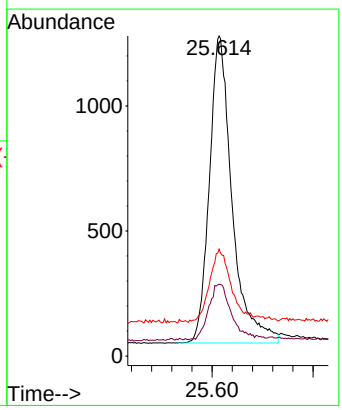


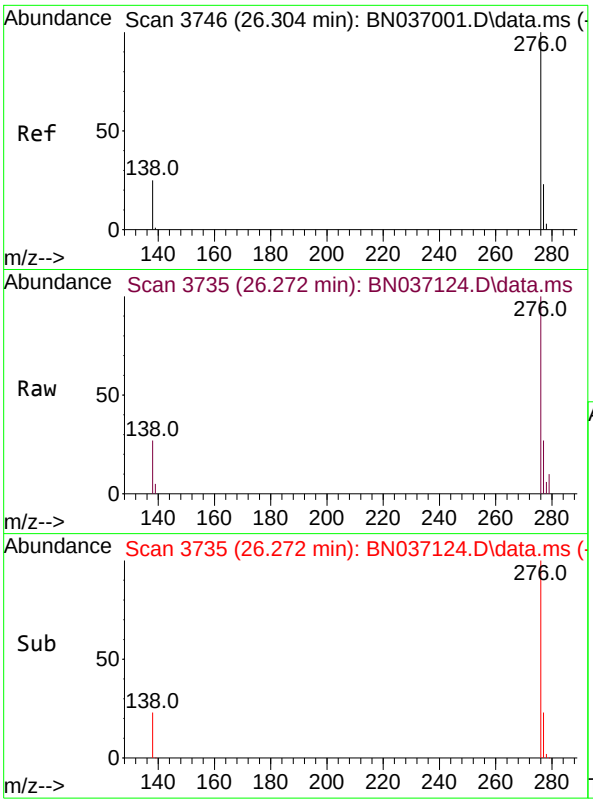


#40
Dibenzo(a,h)anthracene
Concen: 0.388 ng
RT: 25.614 min Scan# 3510
Delta R.T. -0.032 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Tgt Ion:278 Resp: 3842

Ion	Ratio	Lower	Upper
278	100		
139	22.4	17.4	26.0
279	33.4	24.6	37.0



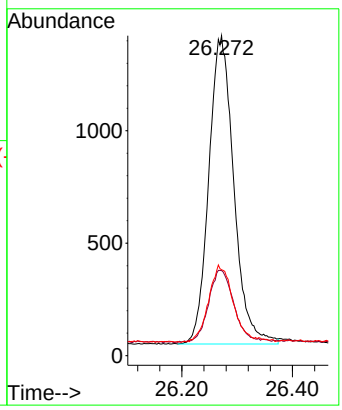


#41
Benzo(g,h,i)perylene
Concen: 0.399 ng
RT: 26.272 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037124.D
Acq: 29 May 2025 00:23

Instrument :
BNA_N
ClientSampleId :
PB168100BS

Tgt Ion:276 Resp: 4293

Ion	Ratio	Lower	Upper
276	100		
277	26.6	20.2	30.4
138	26.8	22.0	33.0



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037125.D
Acq On : 29 May 2025 00:59
Operator : RC/JU
Sample : PB168100BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Quant Time: May 29 01:34:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

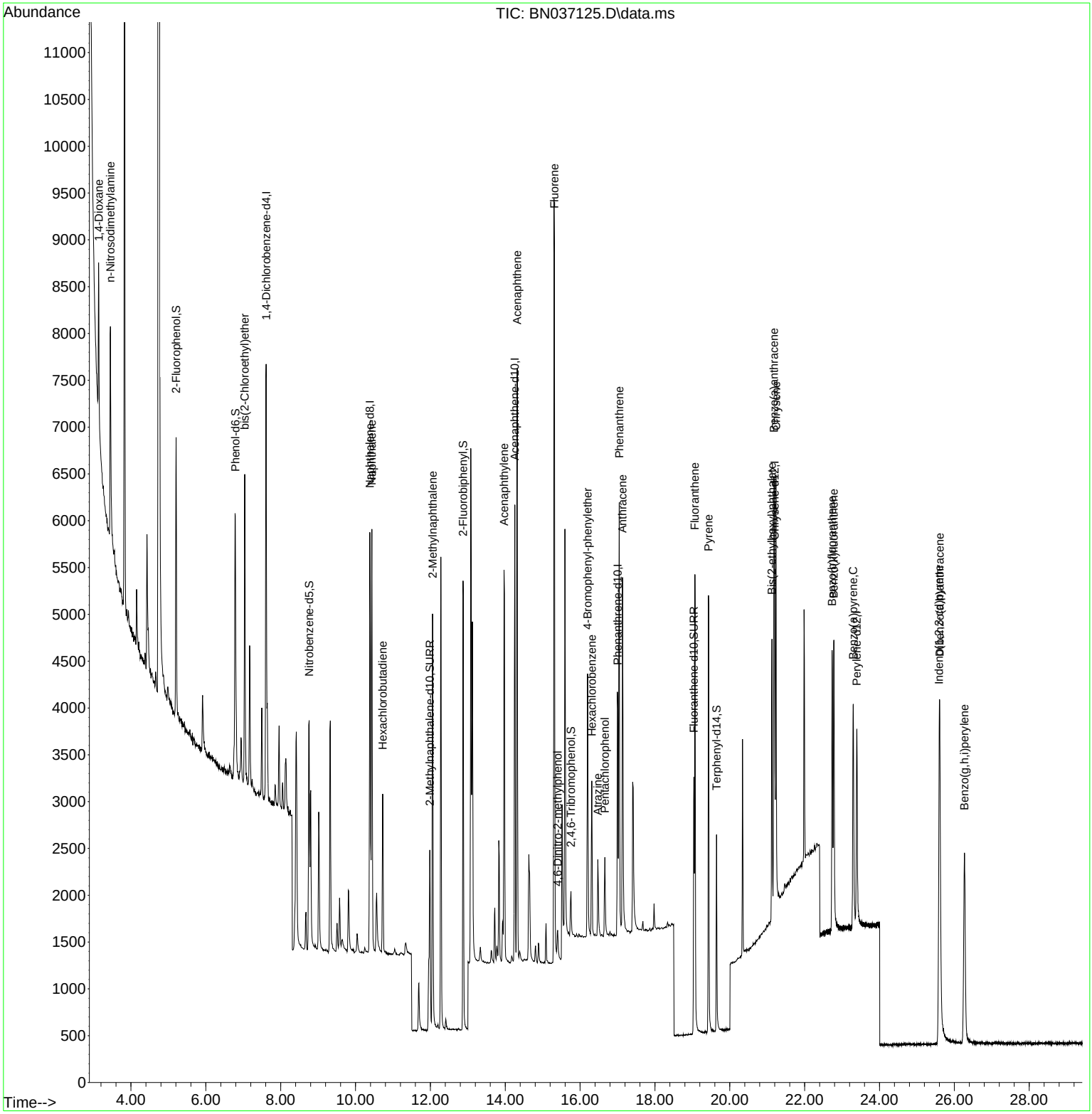
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2246	0.400	ng	0.00
7) Naphthalene-d8	10.383	136	5562	0.400	ng	#-0.02
13) Acenaphthene-d10	14.256	164	2593	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	4050	0.400	ng	# 0.00
29) Chrysene-d12	21.197	240	2689	0.400	ng	# 0.00
35) Perylene-d12	23.392	264	2817	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	2079	0.353	ng	0.00
5) Phenol-d6	6.788	99	2359	0.320	ng	0.00
8) Nitrobenzene-d5	8.760	82	2096	0.346	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	3990	0.510	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	282	0.248	ng	-0.01
15) 2-Fluorobiphenyl	12.873	172	4652	0.392	ng	-0.02
27) Fluoranthene-d10	19.040	212	3234	0.291	ng	0.00
31) Terphenyl-d14	19.644	244	2197	0.382	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	793	0.288	ng	# 35
3) n-Nitrosodimethylamine	3.451	42	2060	0.348	ng	# 92
6) bis(2-Chloroethyl)ether	7.040	93	2273	0.335	ng	98
9) Naphthalene	10.436	128	5672	0.345	ng	98
10) Hexachlorobutadiene	10.725	225	1281	0.371	ng	# 99
12) 2-Methylnaphthalene	12.062	142	3173	0.300	ng	98
16) Acenaphthylene	13.967	152	4902	0.388	ng	99
17) Acenaphthene	14.320	154	2903	0.352	ng	99
18) Fluorene	15.314	166	3562	0.329	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	295	0.379	ng	94
21) 4-Bromophenyl-phenylether	16.202	248	1007	0.394	ng	94
22) Hexachlorobenzene	16.313	284	1097	0.401	ng	98
23) Atrazine	16.475	200	770	0.345	ng	94
24) Pentachlorophenol	16.661	266	431	0.286	ng	# 85
25) Phenanthrene	17.046	178	4747	0.359	ng	99
26) Anthracene	17.133	178	4404	0.366	ng	100
28) Fluoranthene	19.068	202	4429	0.280	ng	100
30) Pyrene	19.430	202	4405	0.383	ng	100
32) Benzo(a)anthracene	21.180	228	3556	0.351	ng	98
33) Chrysene	21.233	228	4044	0.378	ng	98
34) Bis(2-ethylhexyl)phtha...	21.126	149	2055	0.330	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.593	276	4915	0.427	ng	97
37) Benzo(b)fluoranthene	22.734	252	3833	0.328	ng	96
38) Benzo(k)fluoranthene	22.778	252	4110	0.356	ng	95
39) Benzo(a)pyrene	23.298	252	3660	0.369	ng	# 91
40) Dibenzo(a,h)anthracene	25.608	278	3782	0.422	ng	95
41) Benzo(g,h,i)perylene	26.272	276	4218	0.433	ng	98

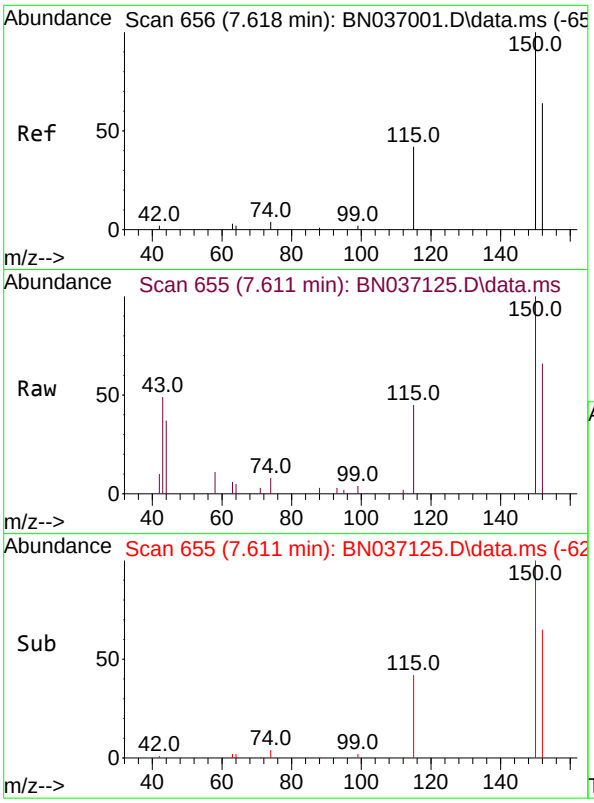
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052825\
Data File : BN037125.D
Acq On : 29 May 2025 00:59
Operator : RC/JU
Sample : PB168100BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Quant Time: May 29 01:34:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



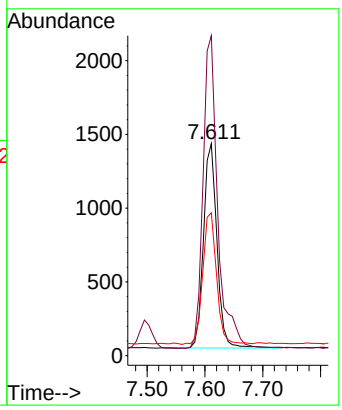


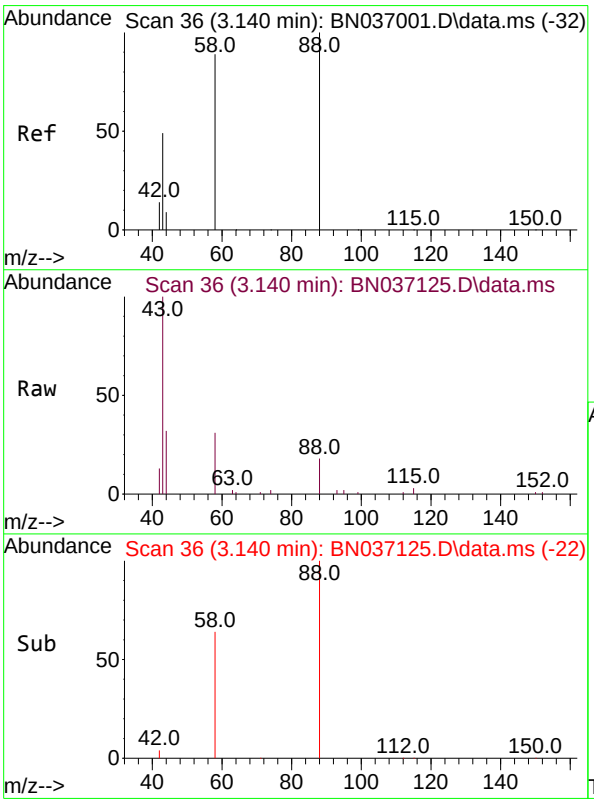
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:152 Resp: 2246

Ion	Ratio	Lower	Upper
152	100		
150	150.9	123.9	185.9
115	67.4	55.8	83.8

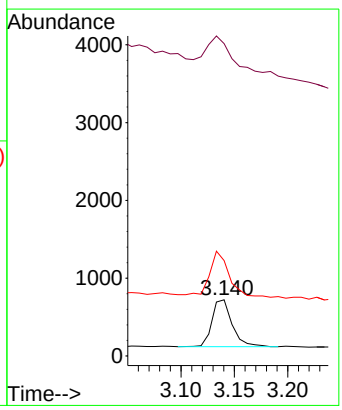


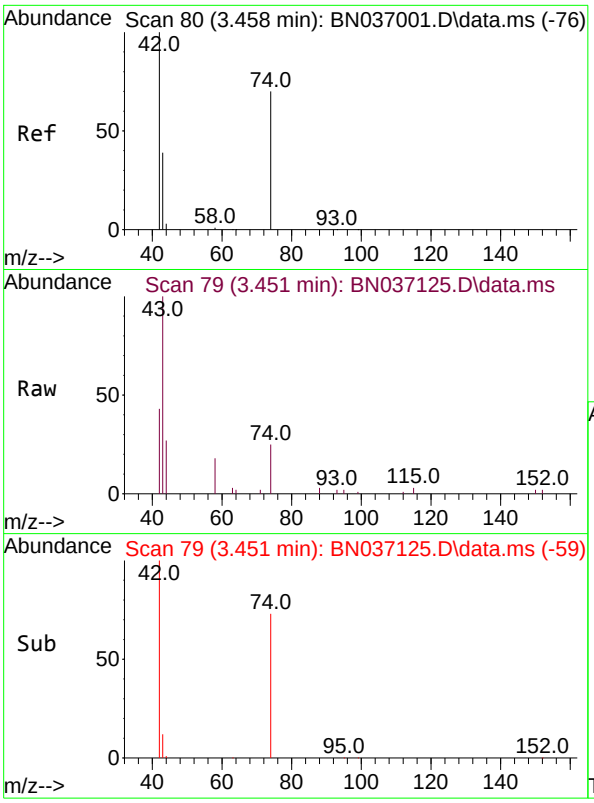


#2
1,4-Dioxane
Concen: 0.288 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion: 88 Resp: 793

Ion	Ratio	Lower	Upper
88	100		
43	145.6	37.4	56.0#
58	103.7	68.8	103.2#



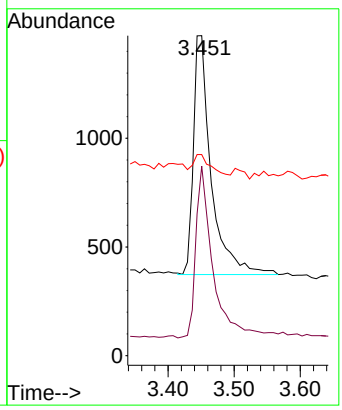


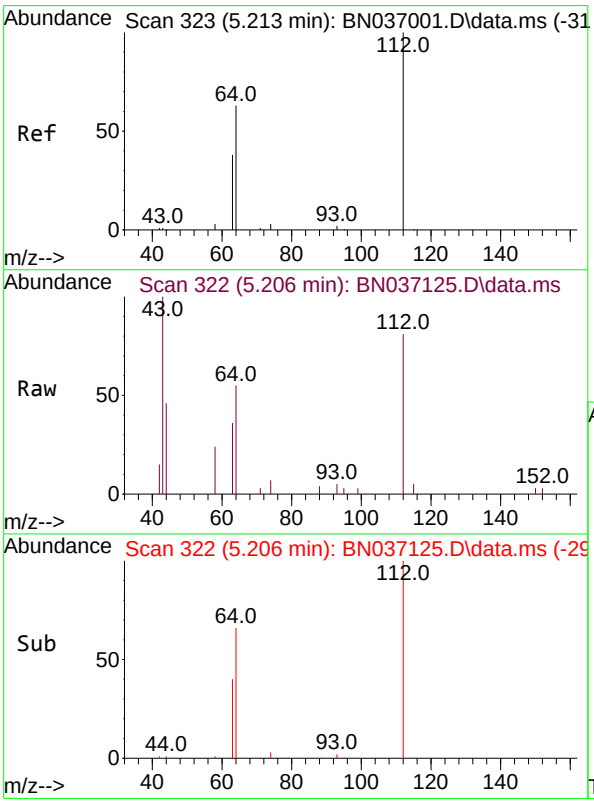
#3
n-Nitrosodimethylamine
Concen: 0.348 ng
RT: 3.451 min Scan# 7
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion: 42 Resp: 2060

Ion	Ratio	Lower	Upper
42	100		
74	69.8	59.8	89.6
44	7.6	11.9	17.9#

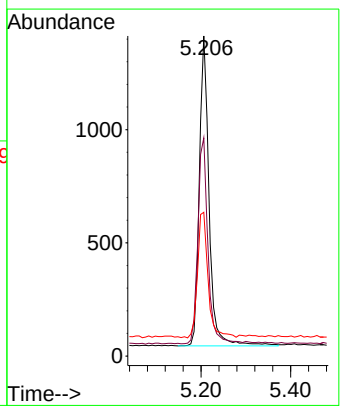


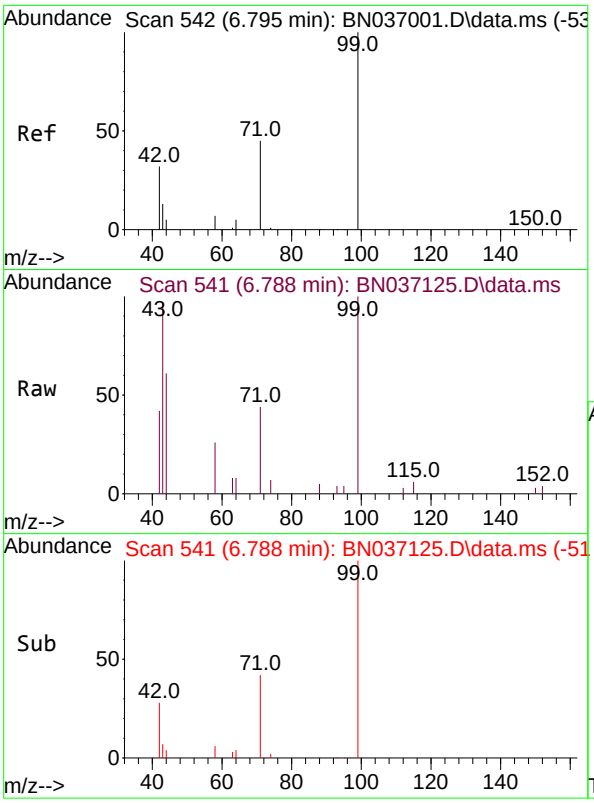


#4
2-Fluorophenol
Concen: 0.353 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:112 Resp: 2079

Ion	Ratio	Lower	Upper
112	100		
64	68.4	55.7	83.5
63	43.2	34.6	51.8



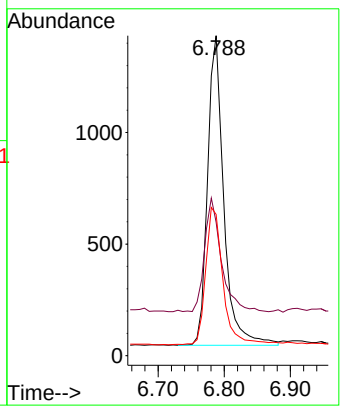


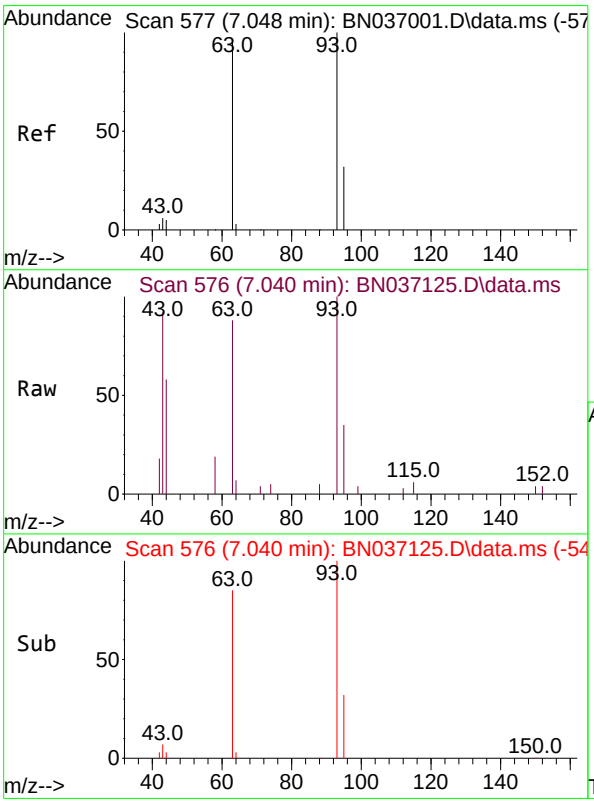
#5
Phenol-d6
Concen: 0.320 ng
RT: 6.788 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion: 99 Resp: 2359

Ion	Ratio	Lower	Upper
99	100		
42	37.9	29.3	43.9
71	47.5	35.7	53.5

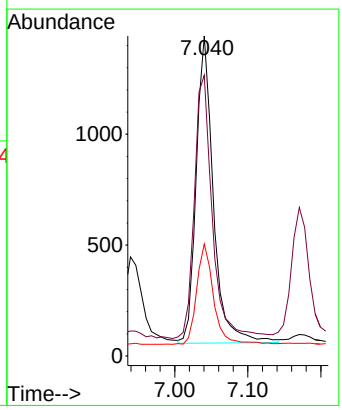


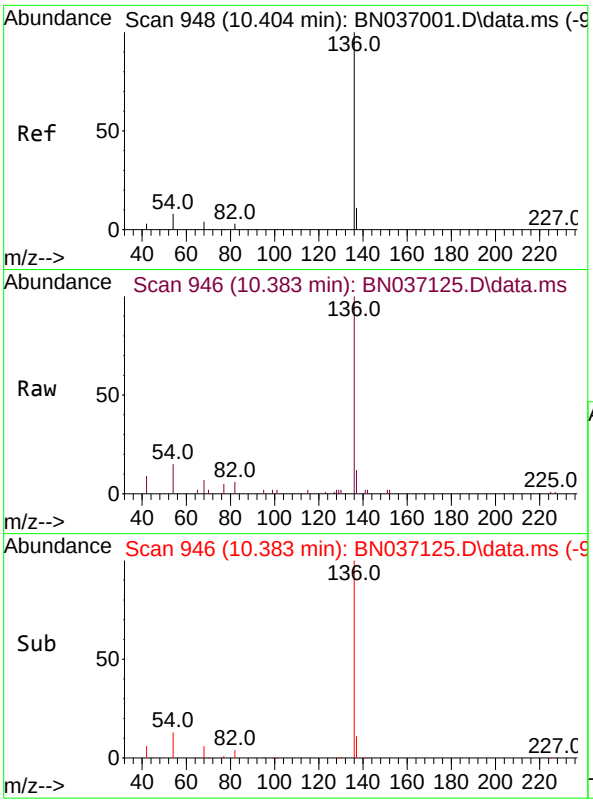


#6
bis(2-Chloroethyl)ether
Concen: 0.335 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion: 93 Resp: 2273

Ion	Ratio	Lower	Upper
93	100		
63	89.7	70.1	105.1
95	31.9	26.2	39.2



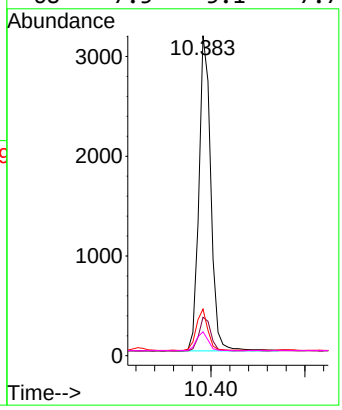


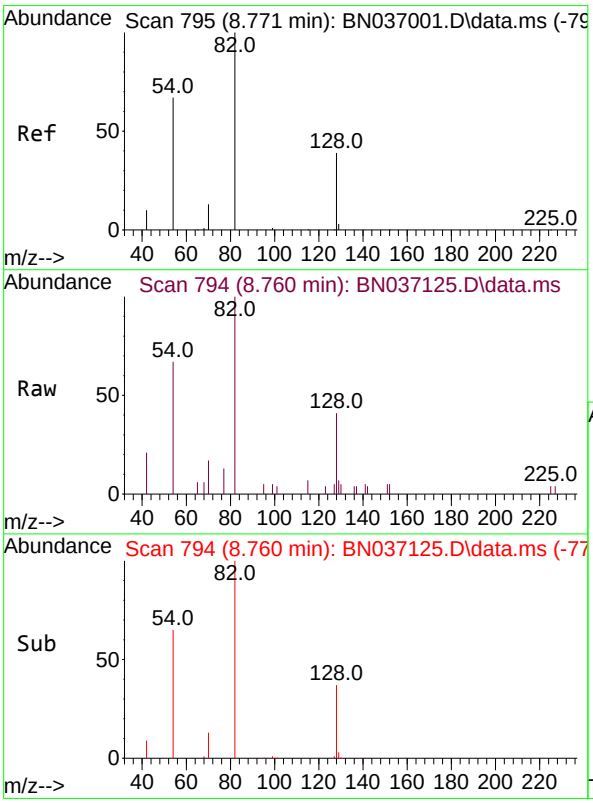
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.383 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:136 Resp: 5562

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.4	15.6
54	14.6	8.5	12.7#
68	7.5	5.1	7.7

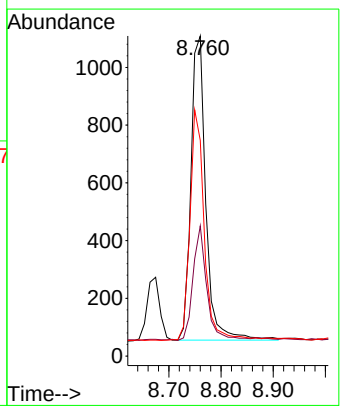


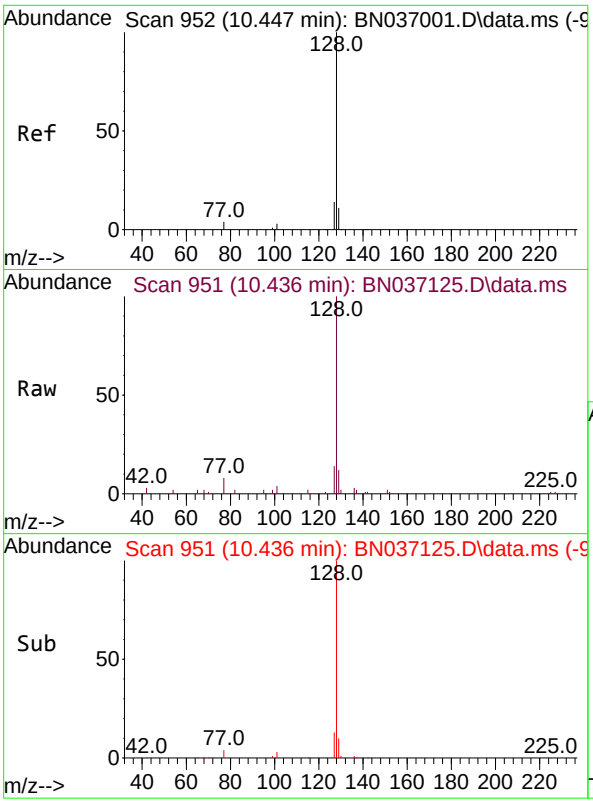


#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion: 82 Resp: 2096

Ion	Ratio	Lower	Upper
82	100		
128	40.7	34.0	51.0
54	67.4	55.0	82.4



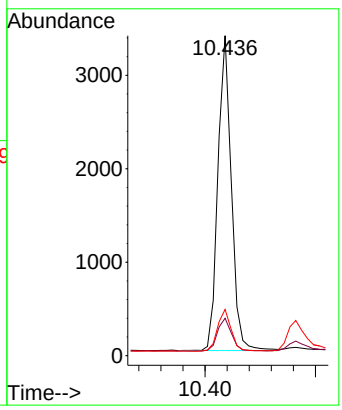


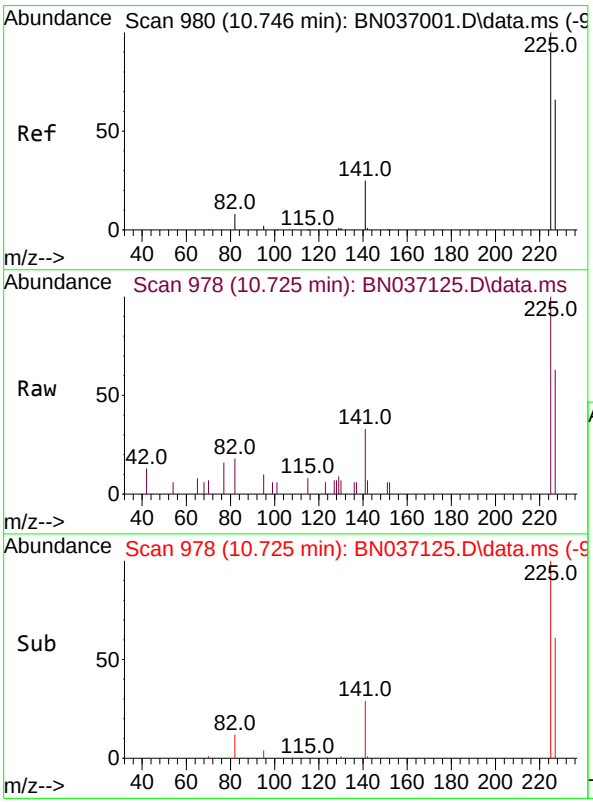
#9
Naphthalene
Concen: 0.345 ng
RT: 10.436 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:128 Resp: 5672

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.7	14.5
127	14.4	12.4	18.6

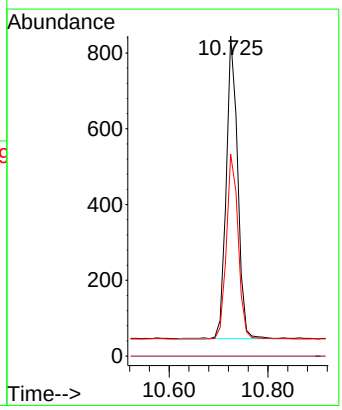


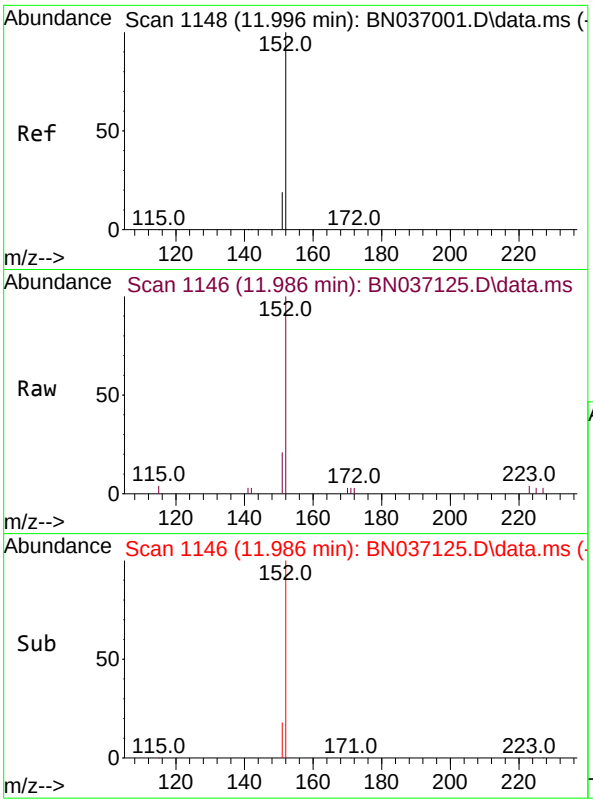


#10
Hexachlorobutadiene
Concen: 0.371 ng
RT: 10.725 min Scan# 978
Delta R.T. -0.021 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:225 Resp: 1281

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.0	50.9	76.3



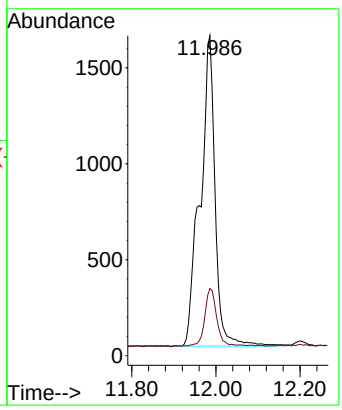


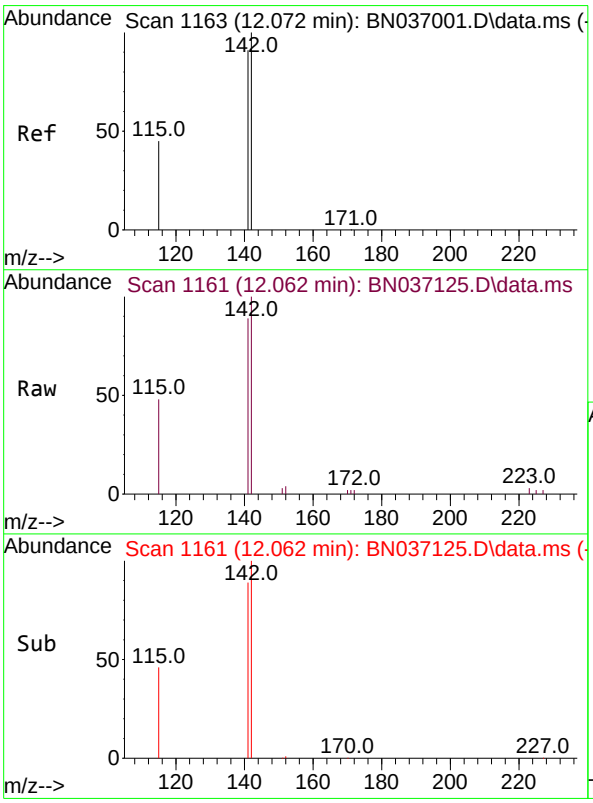
#11
2-Methylnaphthalene-d10
Concen: 0.510 ng
RT: 11.986 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:152 Resp: 3990

Ion	Ratio	Lower	Upper
152	100		
151	14.6	17.5	26.3#

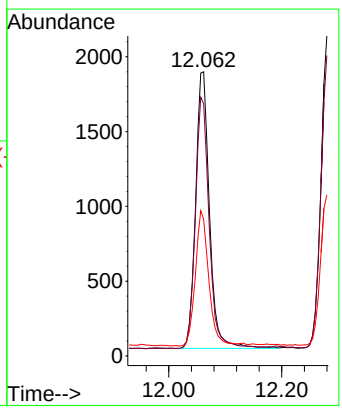


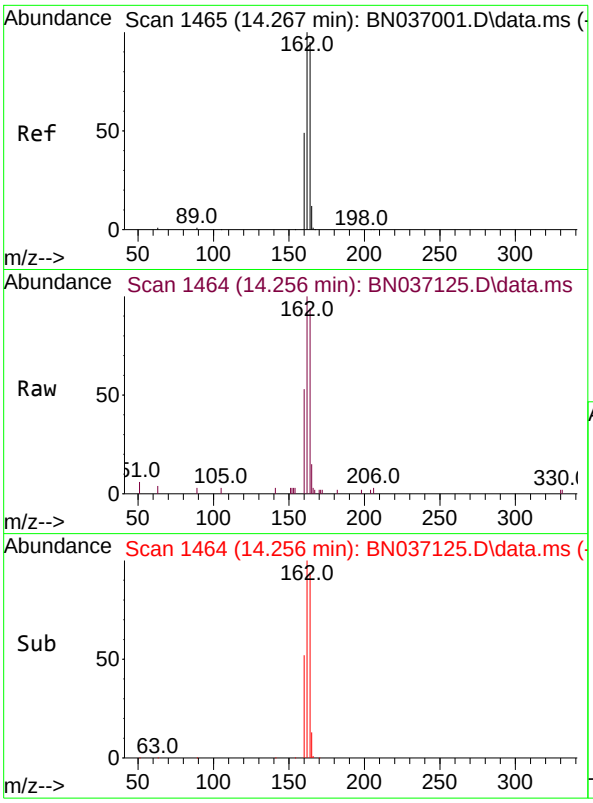


#12
2-Methylnaphthalene
Concen: 0.300 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:142 Resp: 3173

Ion	Ratio	Lower	Upper
142	100		
141	88.7	73.3	109.9
115	48.2	38.4	57.6



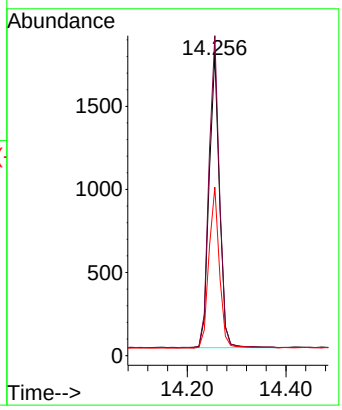


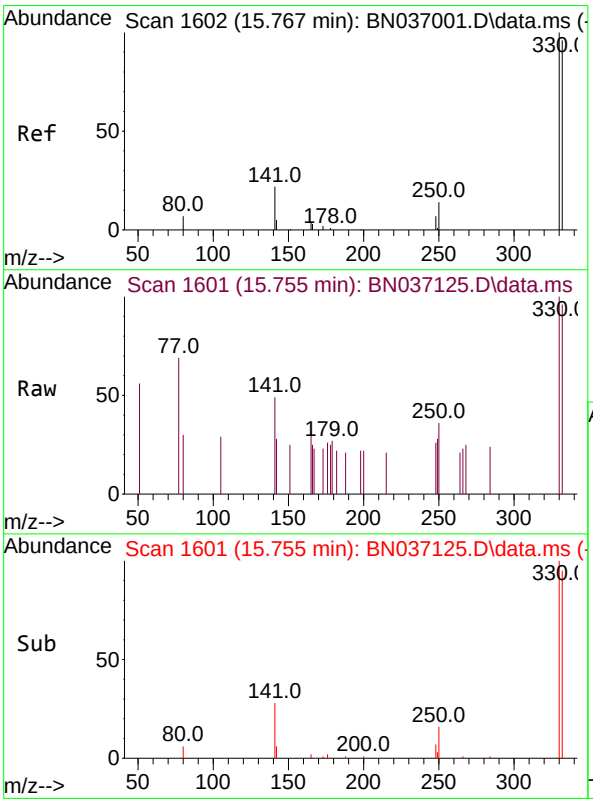
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:164 Resp: 2593

Ion	Ratio	Lower	Upper
164	100		
162	106.3	84.2	126.4
160	55.9	42.6	63.8

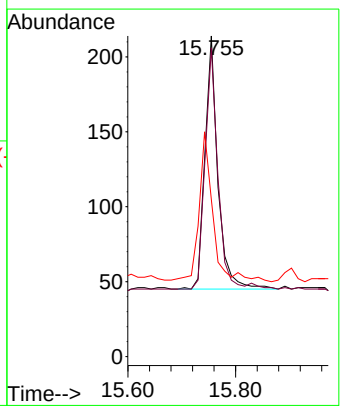


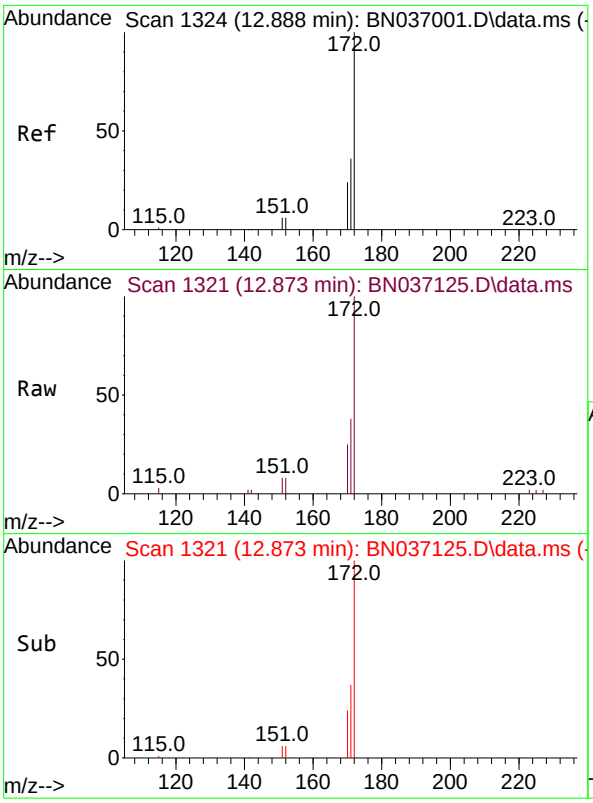


#14
2,4,6-Tribromophenol
Concen: 0.248 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:330 Resp: 282

Ion	Ratio	Lower	Upper
330	100		
332	92.9	73.8	110.8
141	63.1	43.9	65.9



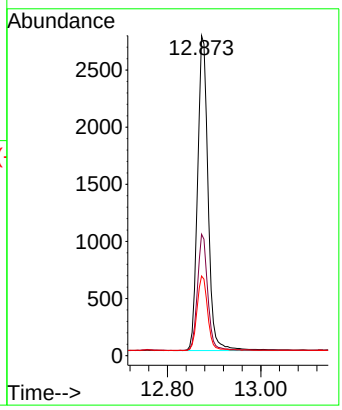


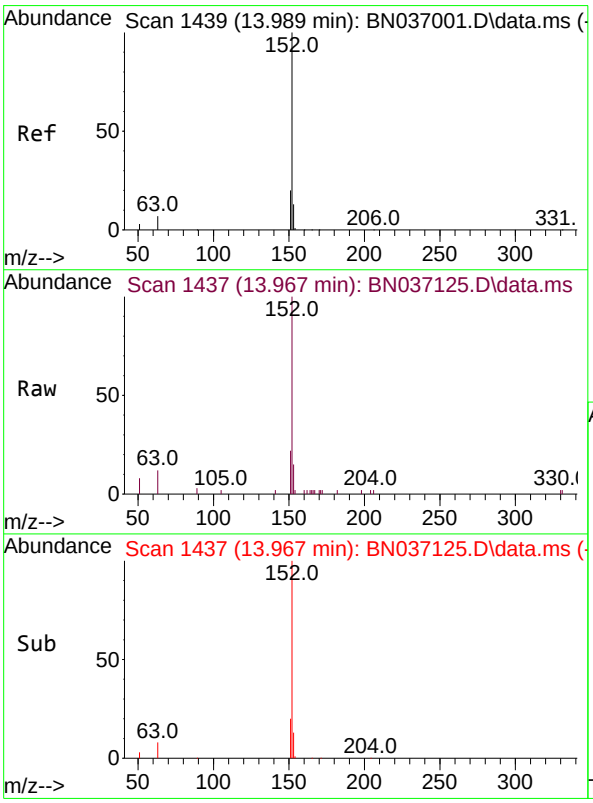
#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.873 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:172 Resp: 4652

Ion	Ratio	Lower	Upper
172	100		
171	38.0	29.2	43.8
170	24.9	20.5	30.7

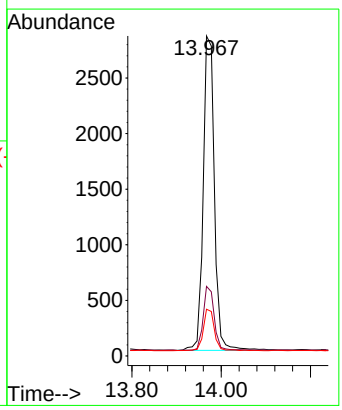


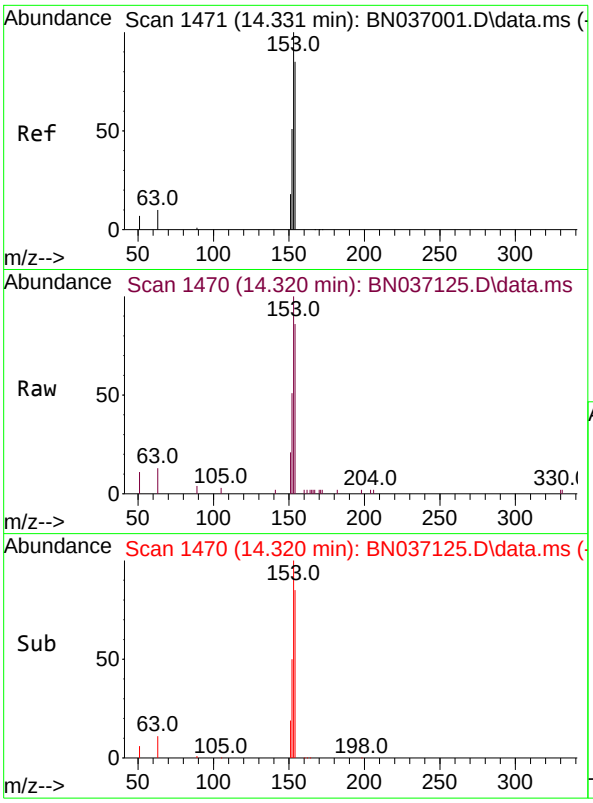


#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.021 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:152 Resp: 4902

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.1	24.1
153	13.1	10.5	15.7



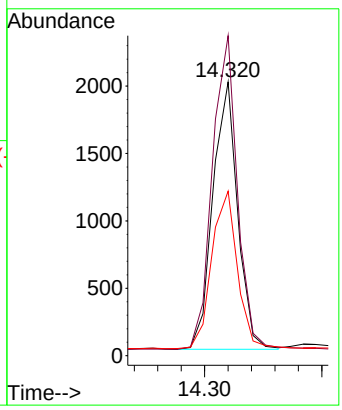


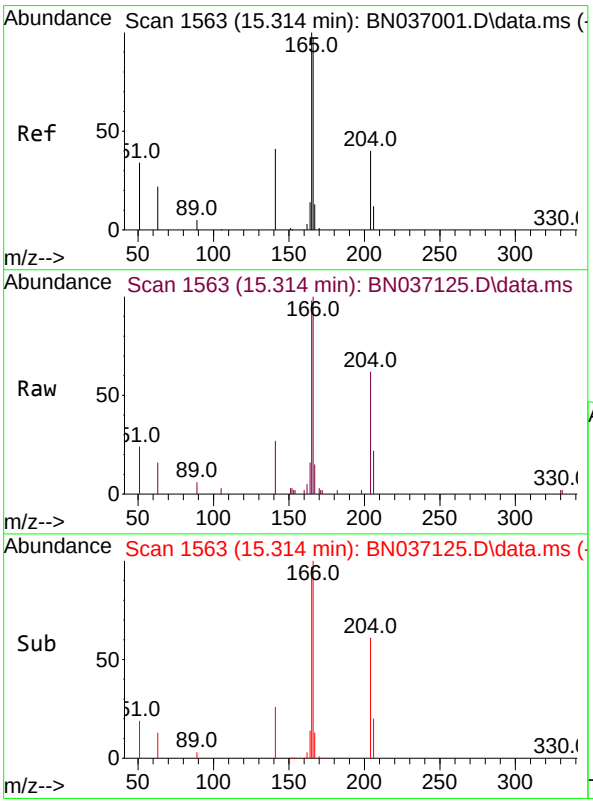
#17
Acenaphthene
Concen: 0.352 ng
RT: 14.320 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:154 Resp: 2903

Ion	Ratio	Lower	Upper
154	100		
153	118.7	94.2	141.4
152	62.5	49.4	74.0

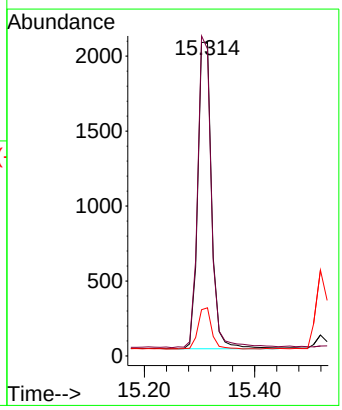


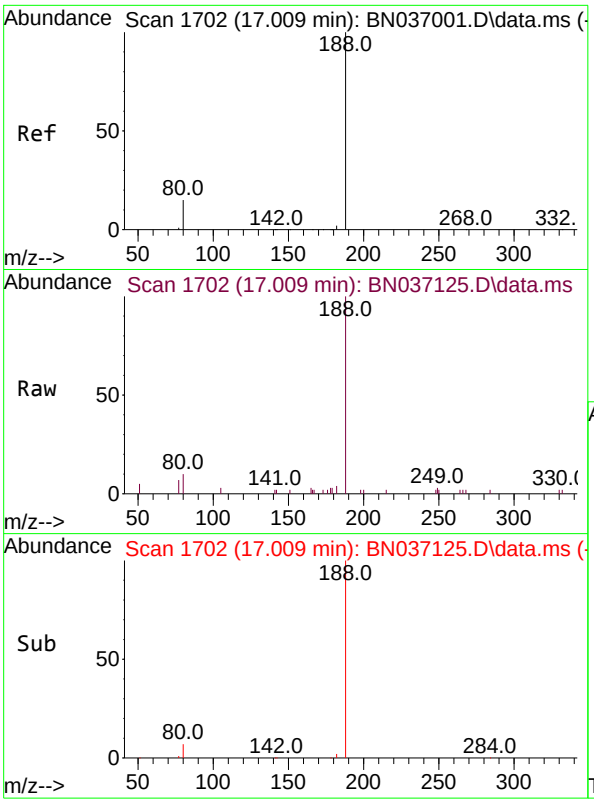


#18
Fluorene
Concen: 0.329 ng
RT: 15.314 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:166 Resp: 3562

Ion	Ratio	Lower	Upper
166	100		
165	100.4	80.6	120.8
167	13.3	10.6	16.0



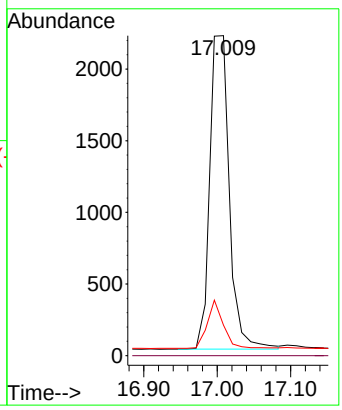


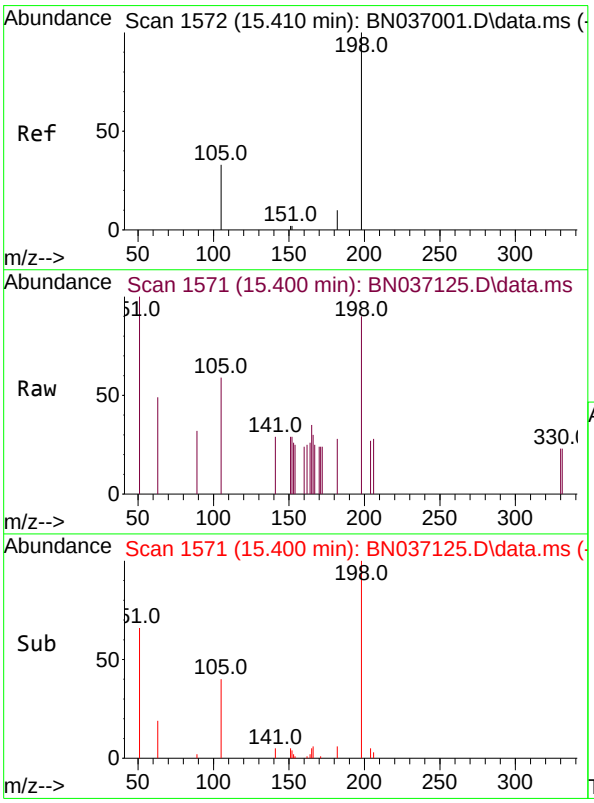
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:188 Resp: 4050

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	13.4	20.0#

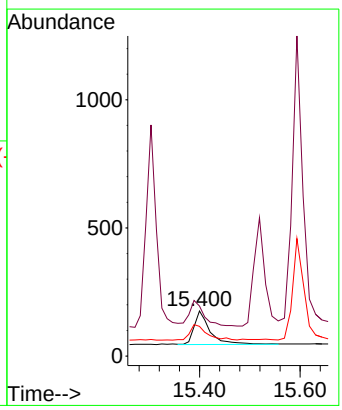


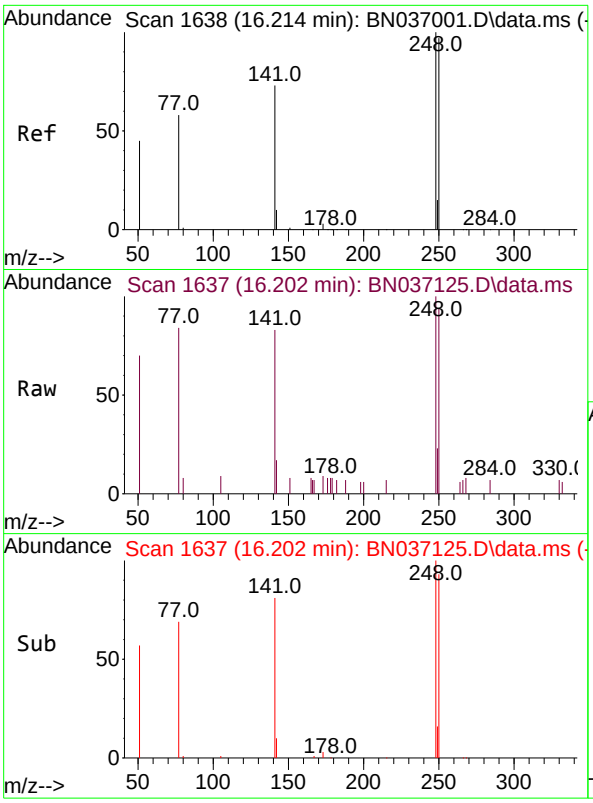


#20
4,6-Dinitro-2-methylphenol
Concen: 0.379 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:198 Resp: 295

Ion	Ratio	Lower	Upper
198	100		
51	110.8	87.8	131.6
105	65.9	44.2	66.4



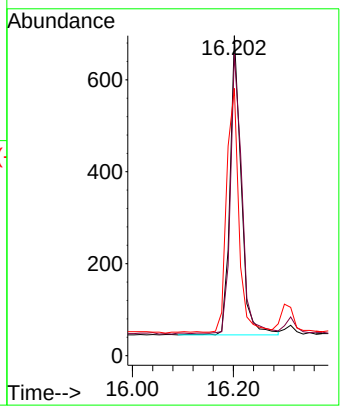


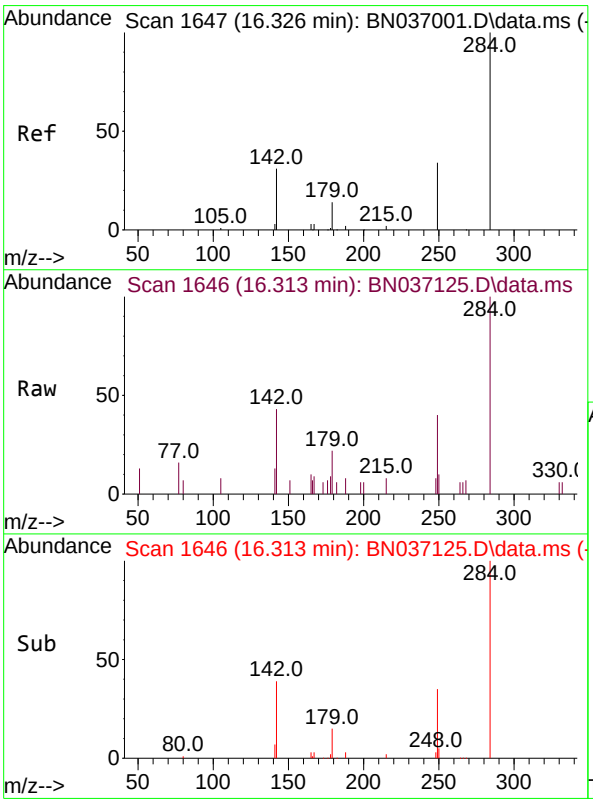
#21
4-Bromophenyl-phenylether
Concen: 0.394 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:248 Resp: 1007

Ion	Ratio	Lower	Upper
248	100		
250	94.3	78.1	117.1
141	83.5	59.7	89.5

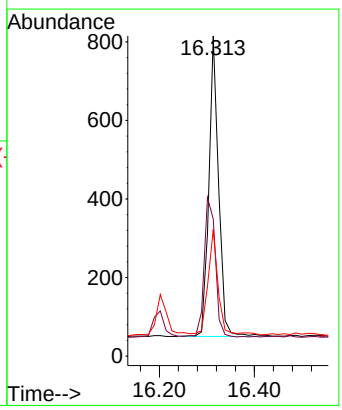


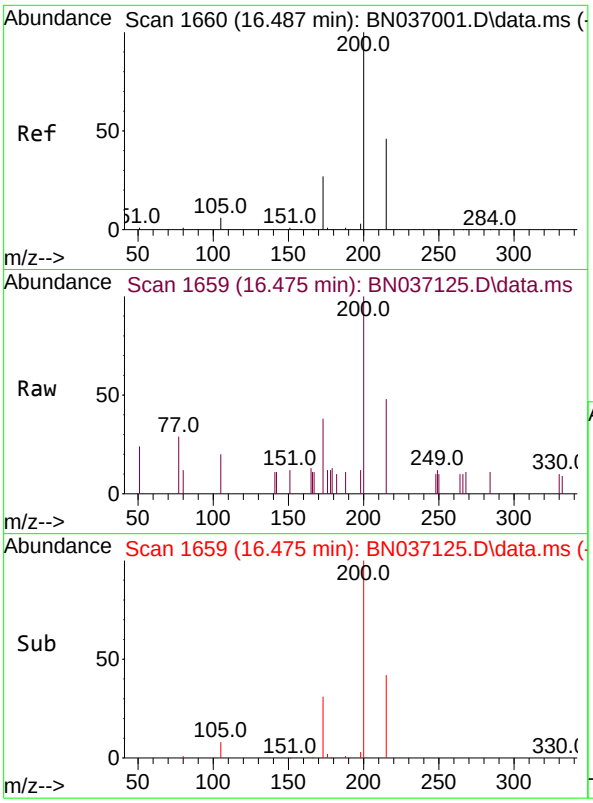


#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.313 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:284 Resp: 1097

Ion	Ratio	Lower	Upper
284	100		
142	52.8	41.2	61.8
249	36.6	28.7	43.1



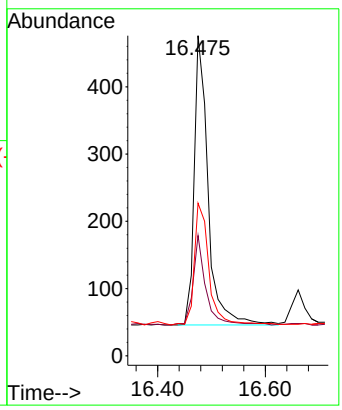


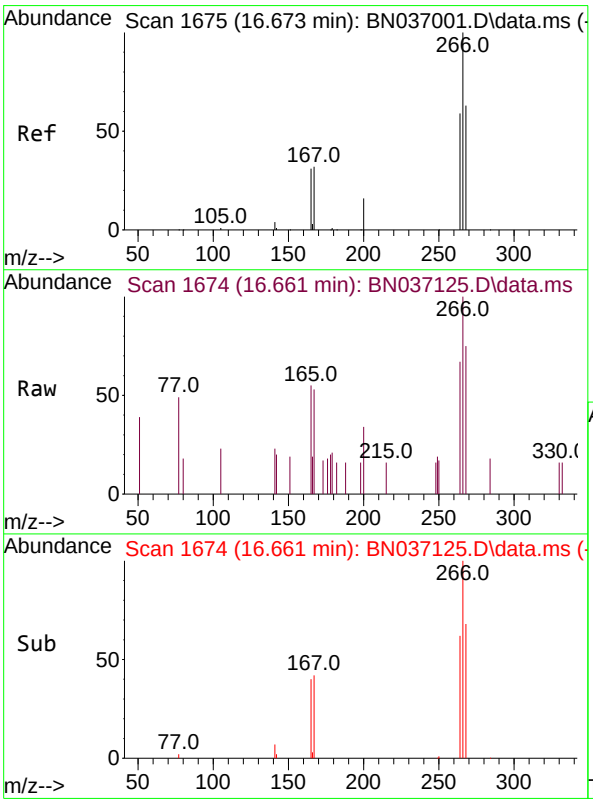
#23
Atrazine
Concen: 0.345 ng
RT: 16.475 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:200 Resp: 770

Ion	Ratio	Lower	Upper
200	100		
173	37.6	25.2	37.8
215	47.7	39.3	58.9

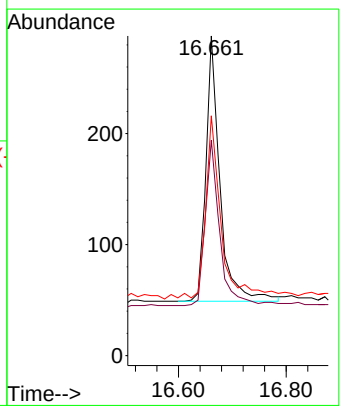


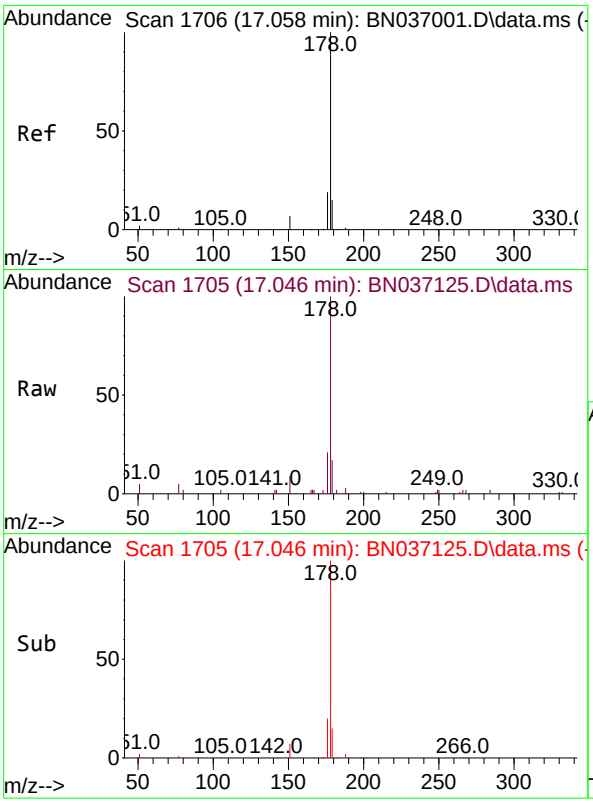


#24
Pentachlorophenol
Concen: 0.286 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:266 Resp: 431

Ion	Ratio	Lower	Upper
266	100		
264	64.7	47.9	71.9
268	80.0	50.0	75.0#



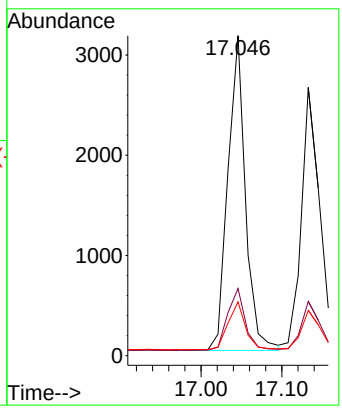


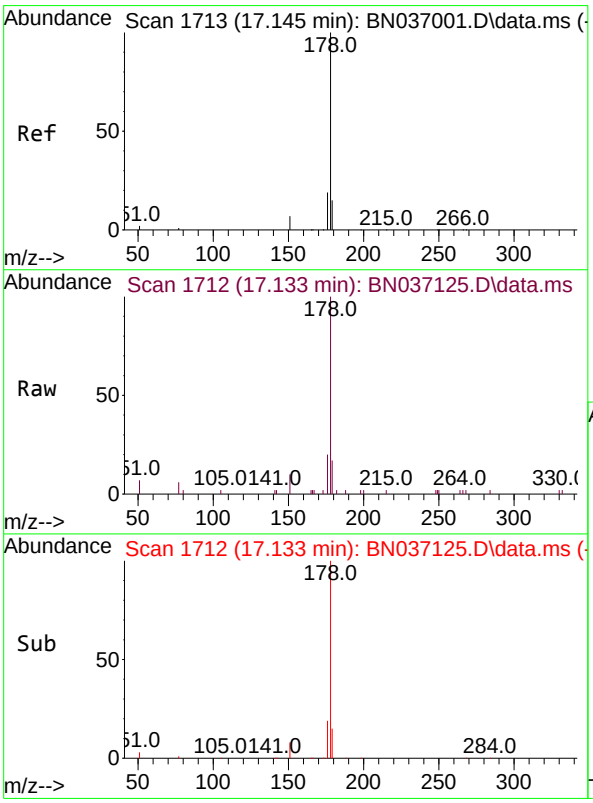
#25
Phenanthrene
Concen: 0.359 ng
RT: 17.046 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:178 Resp: 4747

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.7	23.5
179	15.3	12.2	18.2

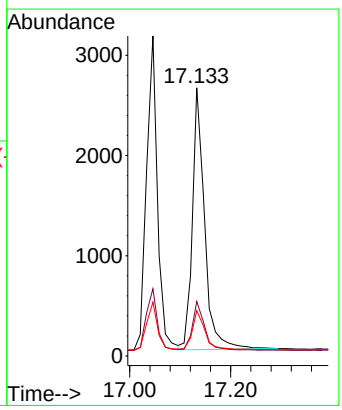


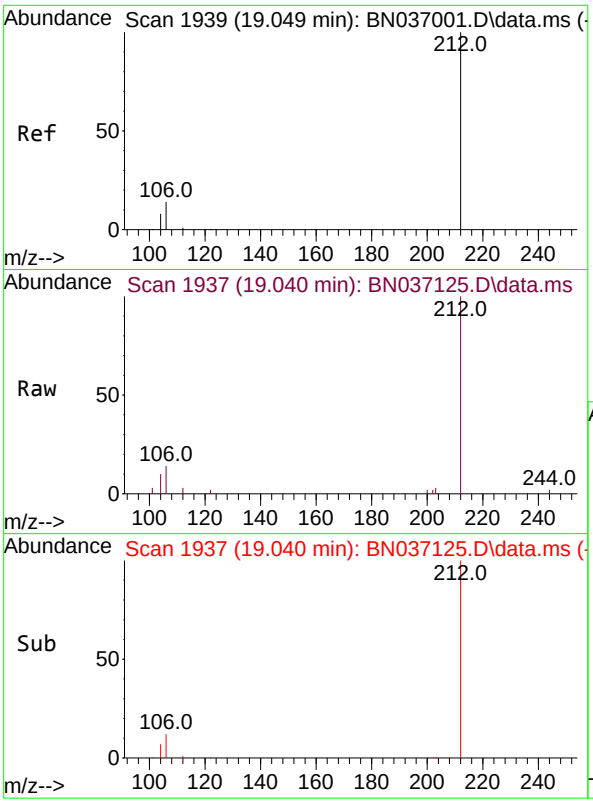


#26
Anthracene
Concen: 0.366 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:178 Resp: 4404

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.4	12.3	18.5



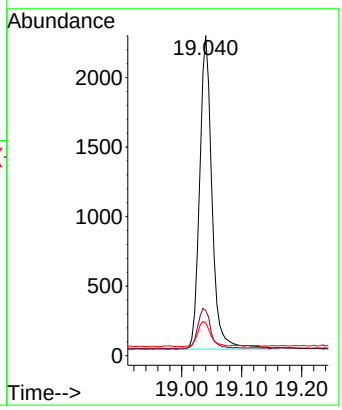


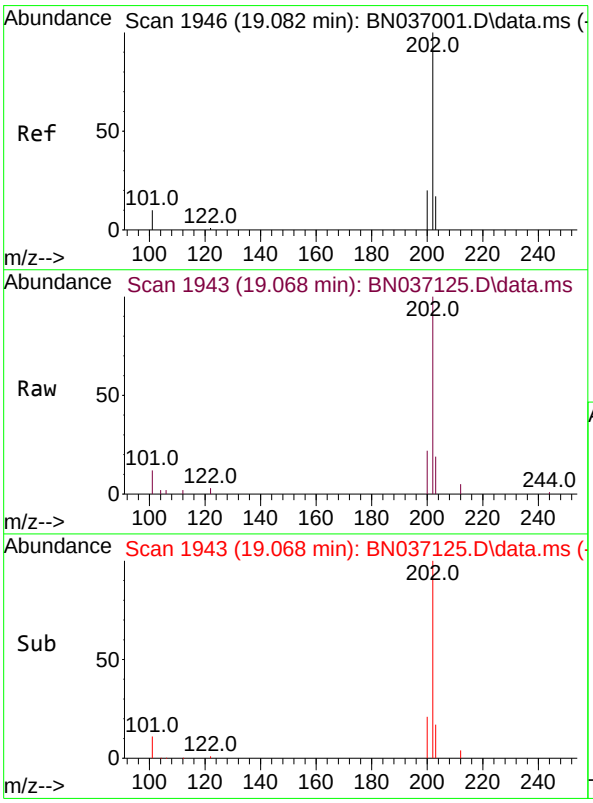
#27
Fluoranthene-d10
Concen: 0.291 ng
RT: 19.040 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:212 Resp: 3234

Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.3	16.9
104	8.3	6.7	10.1

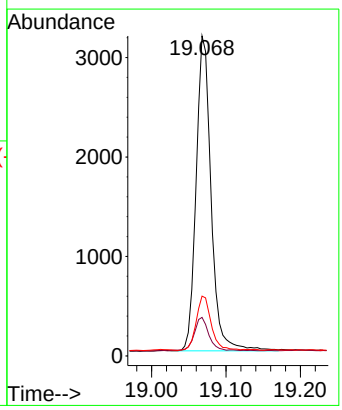


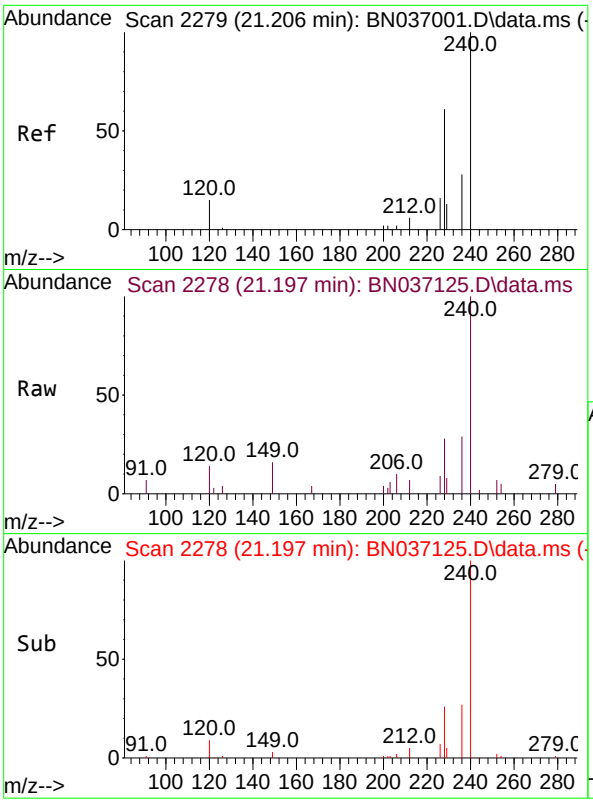


#28
Fluoranthene
Concen: 0.280 ng
RT: 19.068 min Scan# 1943
Delta R.T. -0.014 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:202 Resp: 4429

Ion	Ratio	Lower	Upper
202	100		
101	10.8	8.9	13.3
203	17.2	13.8	20.8



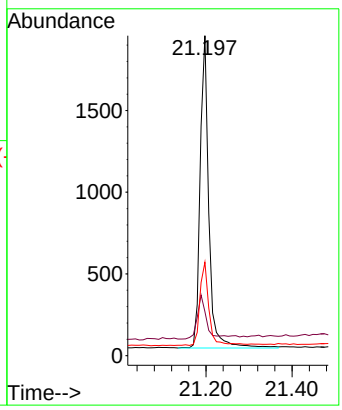


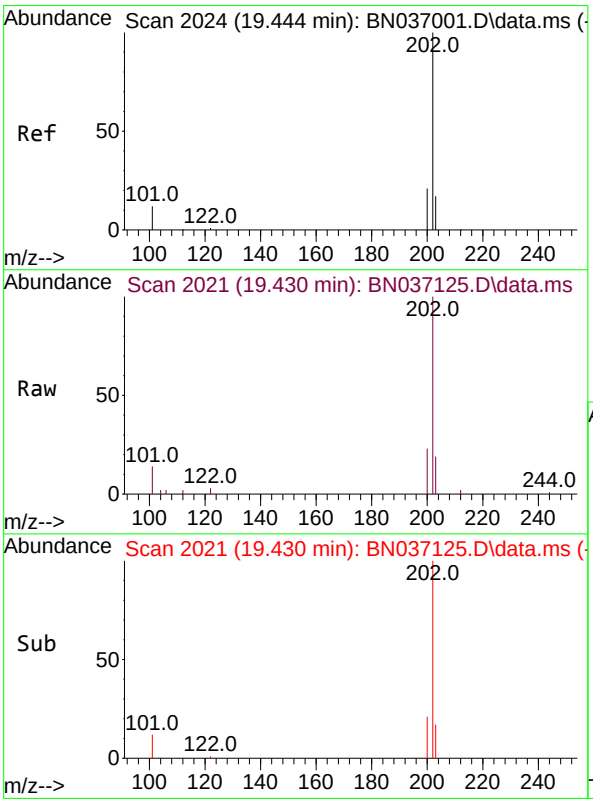
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.197 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:240 Resp: 2689

Ion	Ratio	Lower	Upper
240	100		
120	13.7	15.1	22.7#
236	29.2	24.0	36.0

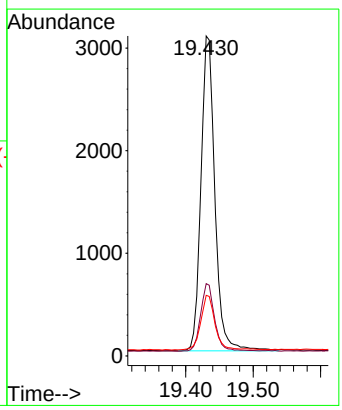


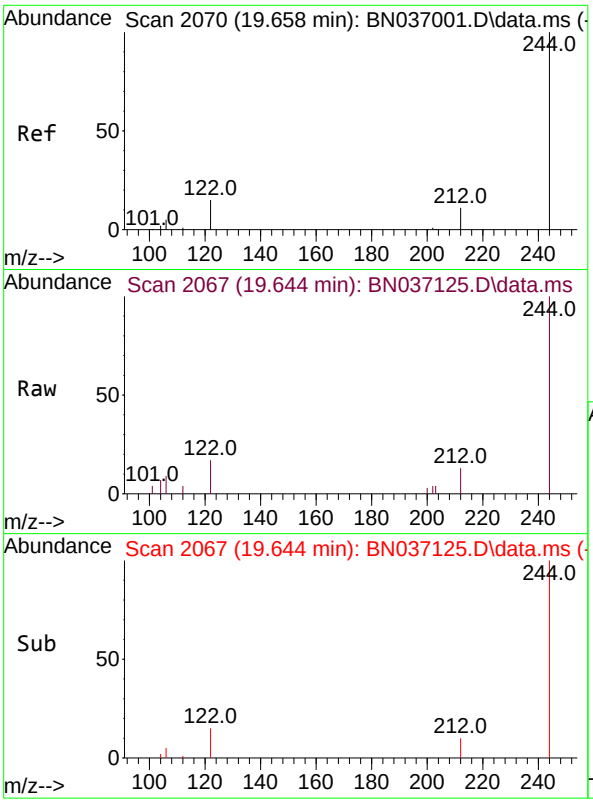


#30
Pyrene
Concen: 0.383 ng
RT: 19.430 min Scan# 2021
Delta R.T. -0.014 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:202 Resp: 4405

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.5	14.2	21.4



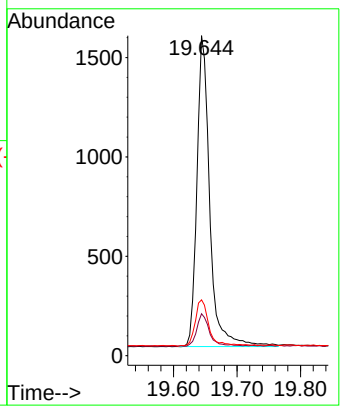


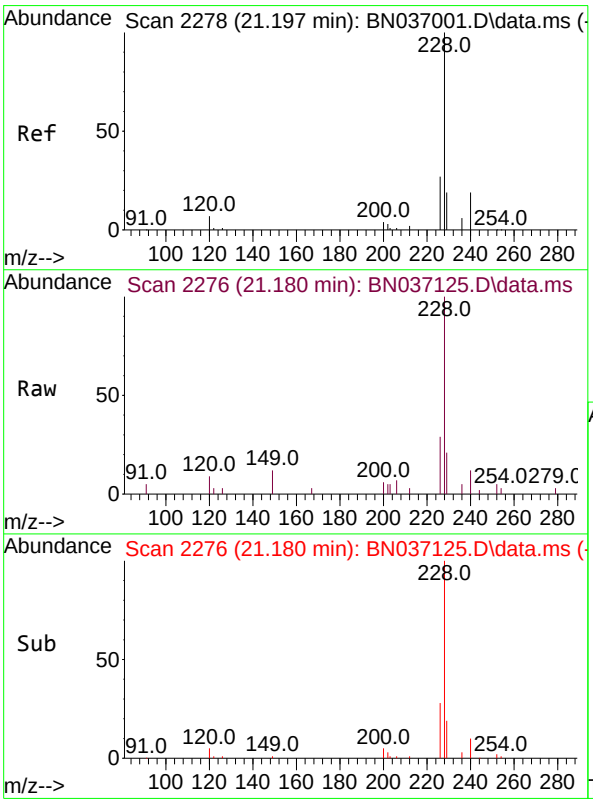
#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.644 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:244 Resp: 2197

Ion	Ratio	Lower	Upper
244	100		
212	13.1	9.7	14.5
122	17.5	13.4	20.0

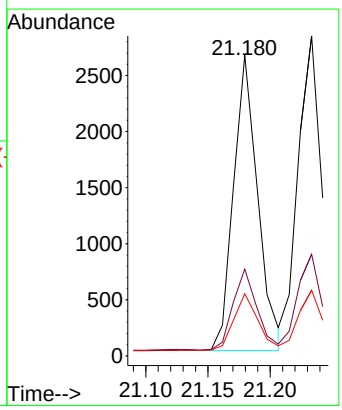


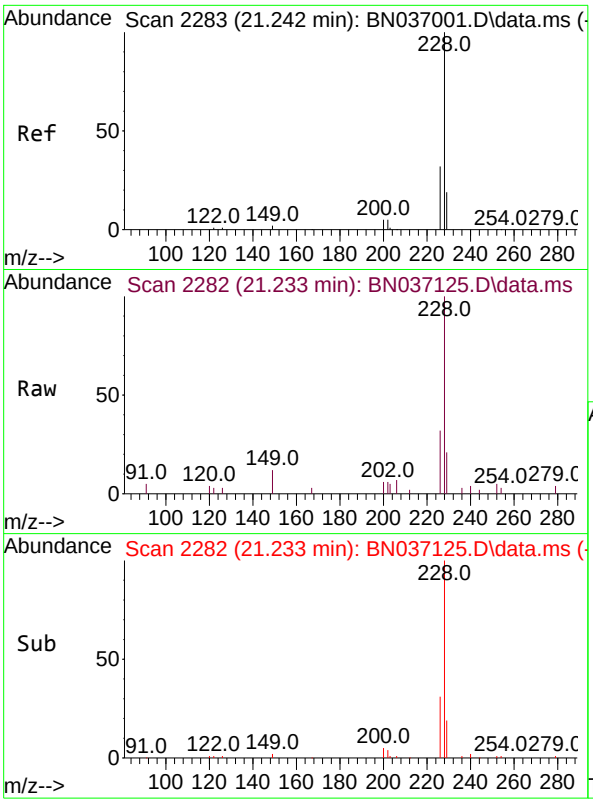


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.018 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:228 Resp: 3556

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.2	33.4
229	20.7	16.0	24.0



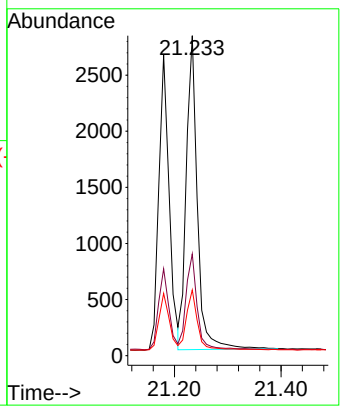


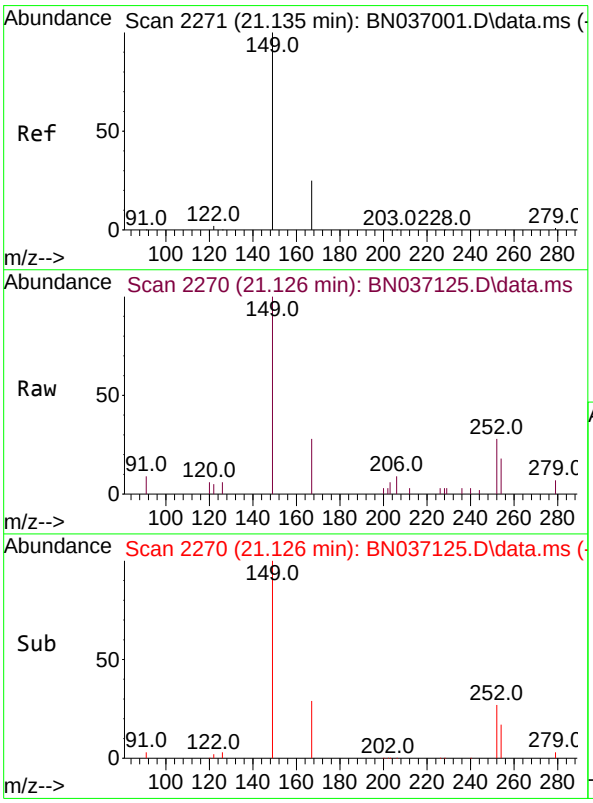
#33
Chrysene
Concen: 0.378 ng
RT: 21.233 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:228 Resp: 4044

Ion	Ratio	Lower	Upper
228	100		
226	31.8	26.3	39.5
229	20.5	16.2	24.2

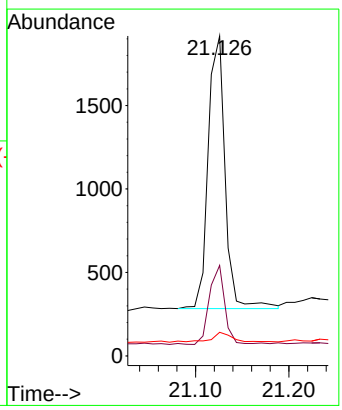


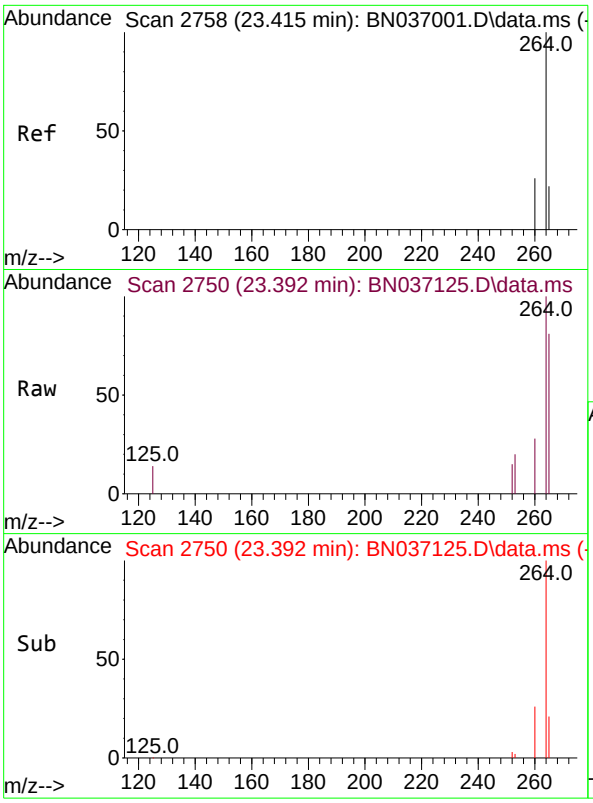


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.330 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:149 Resp: 2055

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.6	30.8
279	4.6	2.6	3.8#



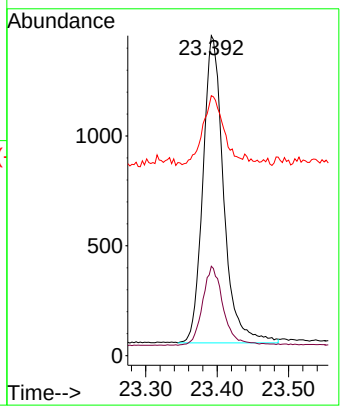


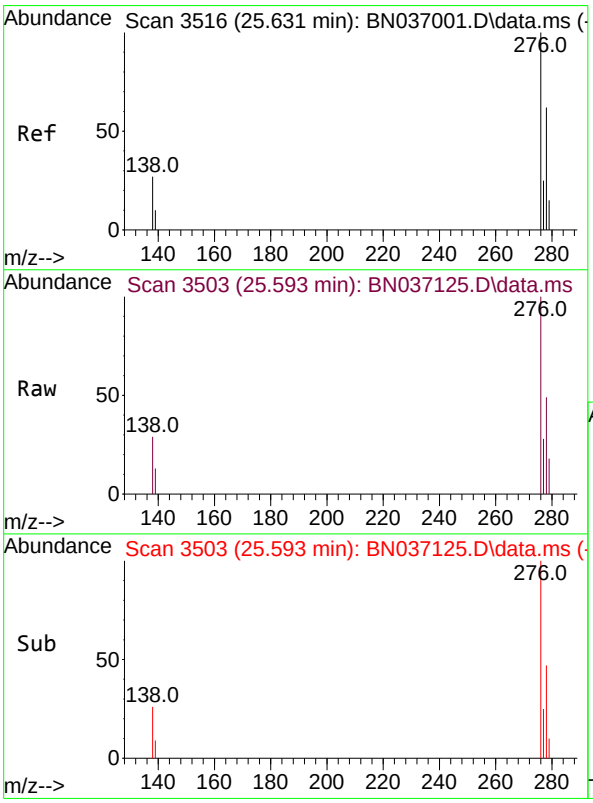
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.392 min Scan# 2
Delta R.T. -0.023 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:264 Resp: 2817

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.9	32.9
265	81.3	51.6	77.4#

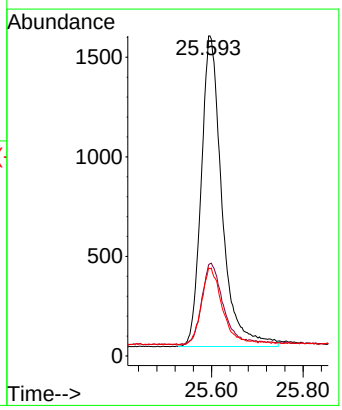


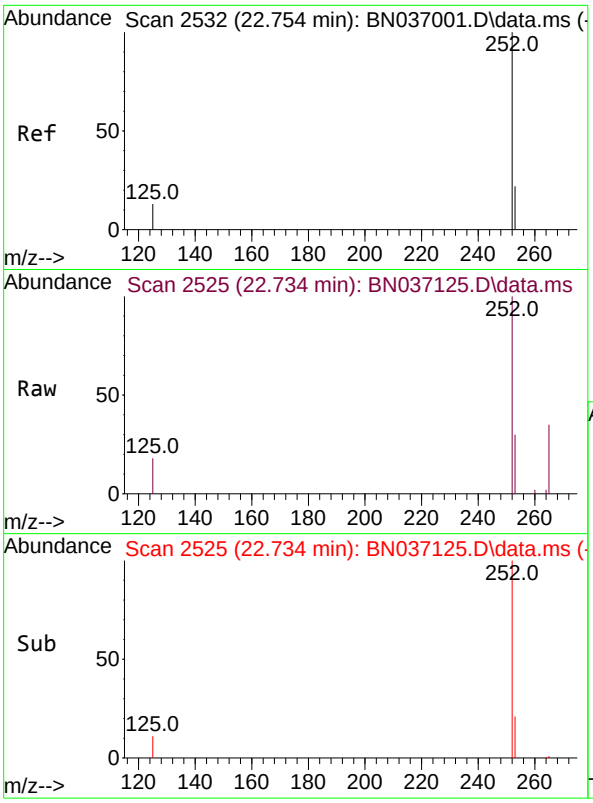


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.593 min Scan# 3503
Delta R.T. -0.038 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:276 Resp: 4915

Ion	Ratio	Lower	Upper
276	100		
138	26.3	22.7	34.1
277	24.3	20.0	30.0



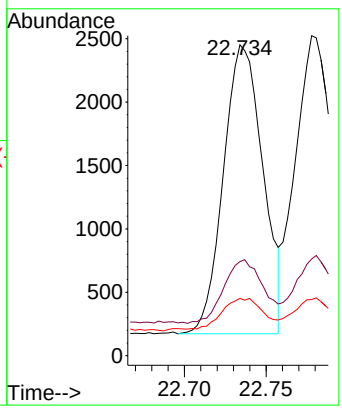


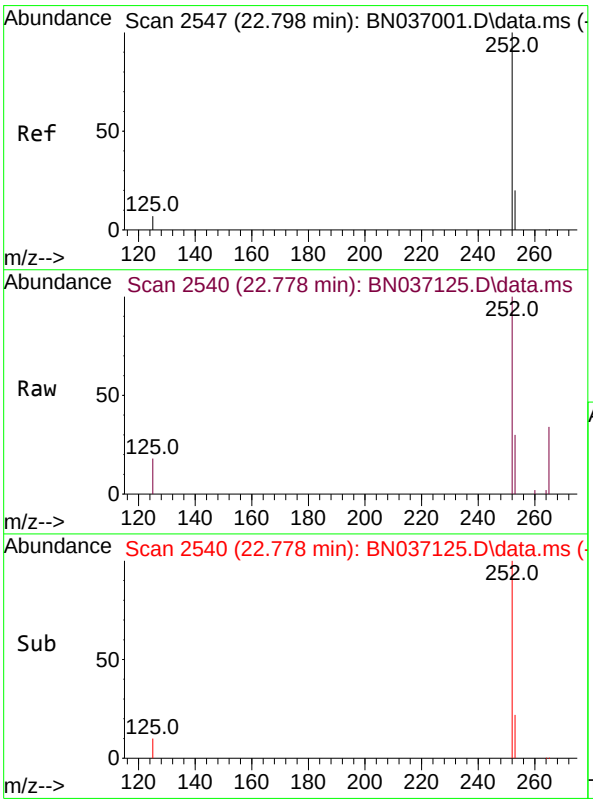
#37
Benzo(b)fluoranthene
Concen: 0.328 ng
RT: 22.734 min Scan# 2
Delta R.T. -0.020 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:252 Resp: 3833

Ion	Ratio	Lower	Upper
252	100		
253	30.3	21.8	32.6
125	18.4	14.6	21.8

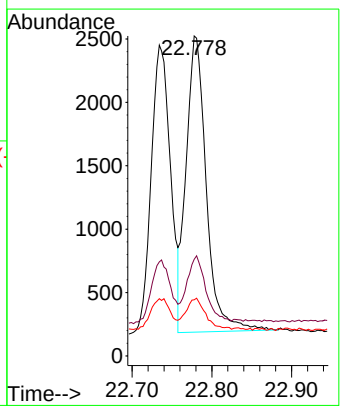


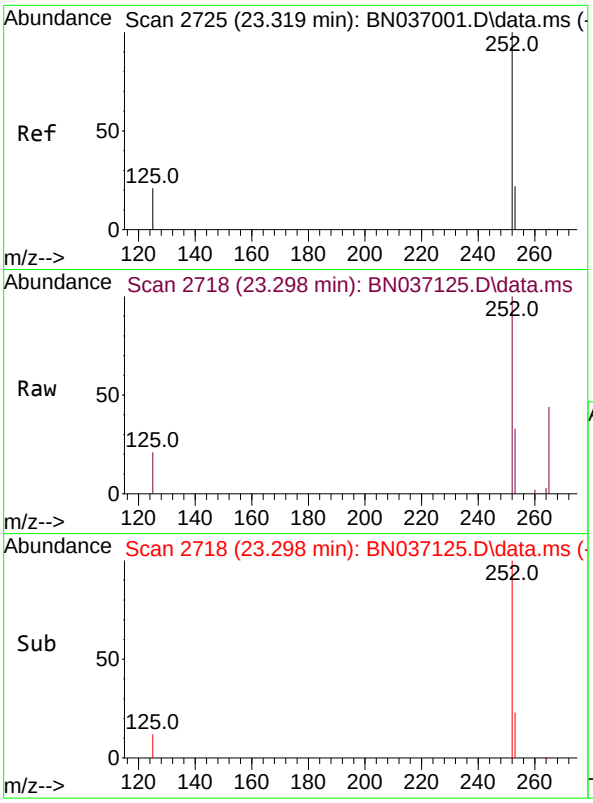


#38
Benzo(k)fluoranthene
Concen: 0.356 ng
RT: 22.778 min Scan# 2540
Delta R.T. -0.020 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:252 Resp: 4110

Ion	Ratio	Lower	Upper
252	100		
253	30.2	21.4	32.2
125	17.6	13.0	19.4



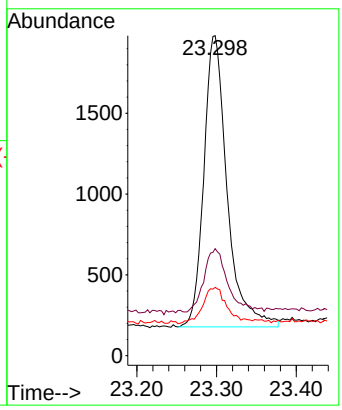


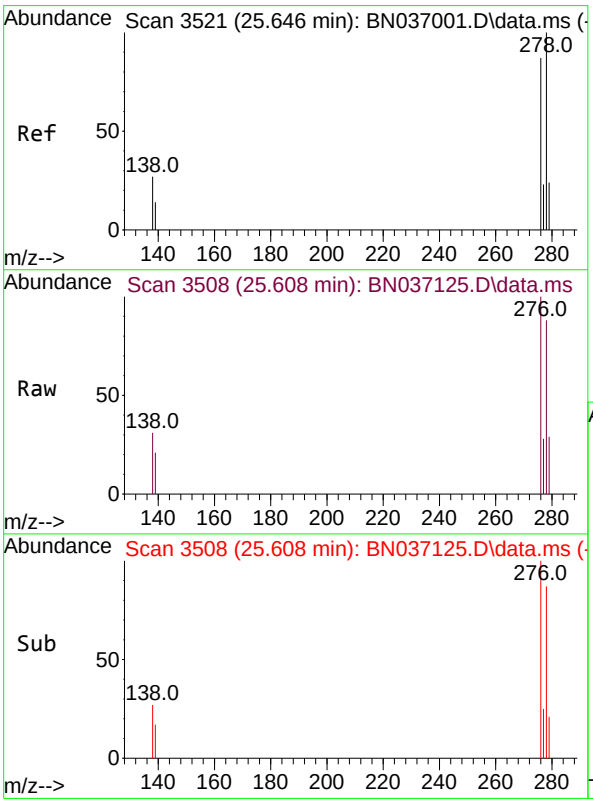
#39
Benzo(a)pyrene
Concen: 0.369 ng
RT: 23.298 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:252 Resp: 3660

Ion	Ratio	Lower	Upper
252	100		
253	33.5	23.8	35.6
125	21.4	21.8	32.6#

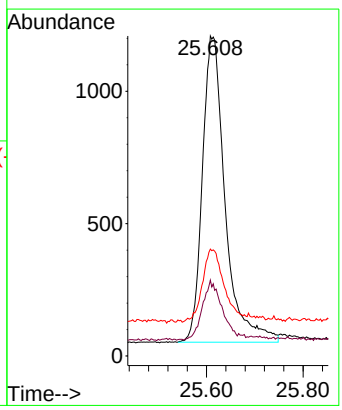


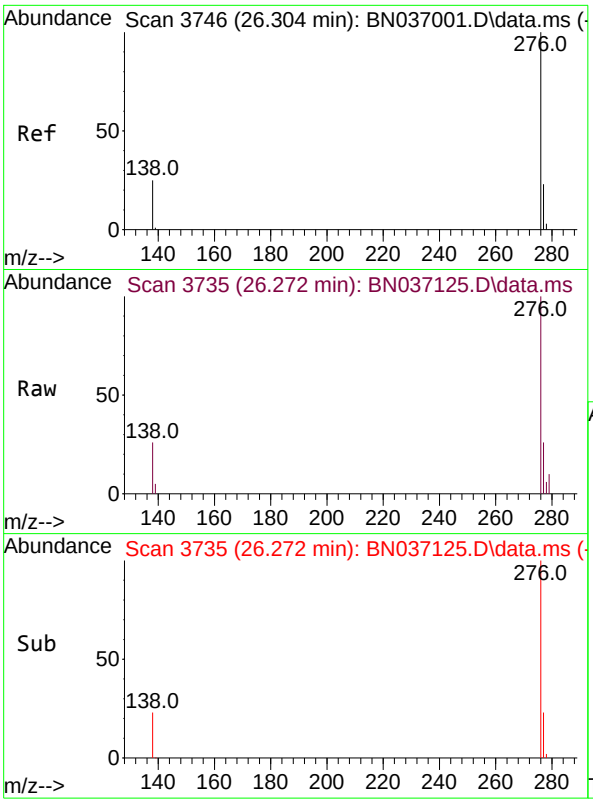


#40
Dibenzo(a,h)anthracene
Concen: 0.422 ng
RT: 25.608 min Scan# 3508
Delta R.T. -0.038 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Tgt Ion:278 Resp: 3782

Ion	Ratio	Lower	Upper
278	100		
139	23.7	17.4	26.0
279	33.4	24.6	37.0





#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 26.272 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN037125.D
Acq: 29 May 2025 00:59

Instrument :
BNA_N
ClientSampleId :
PB168100BSD

Tgt Ion:276 Resp: 4218

Ion	Ratio	Lower	Upper
276	100		
277	26.4	20.2	30.4
138	26.4	22.0	33.0

