

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q3478

ATTENTION : Mohammad Ahmed



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3478

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3478-01

Client Sample Number

38072-061125

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: 11/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Waste Water PT

Project # N/A

Order ID # Q3478

Test Name: SVOCMS Group5

A. Number of Samples and Date of Receipt:

1 Water sample was received on 10/28/2025.

B. Parameters

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

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOCMS Group5 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for 38072-061125DL [2-Fluorobiphenyl - 162%,] as per method one acid and one base surrogate allow to fail therefore no corrective action taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration File ID BN038121.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.. .

The Tuning criteria met requirements.

Sample 38072-061125 was diluted due to high concentration.

E. Additional Comments:

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

F. Manual Integration Comments:



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Phone: 908 789 8900 Fax: 908 789 8922

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This 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: Q3478

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration File ID BN038121.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken..		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	The Surrogate recoveries were met for all analysis except for 38072-061125DL [2- Fluorobiphenyl - 162%,] as per method one acid and one base surrogate allow to fail therefore no corrective action taken. If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds.			✓
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:

Sample 38072-061125 was diluted due to high concentration.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3478

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 Custody

✓

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: 11/10/2025

LAB CHRONICLE

OrderID:	Q3478	OrderDate:	10/28/2025 12:28:00 PM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Waste Water PT
Contact:	Mohammad Ahmed	Location:	QA Office

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3478-01	38072-061125	Water	SVOCMS Group5	8270-Modified	10/27/25	10/28/25	10/30/25	10/28/25
Q3478-01DL	38072-061125DL	Water	SVOCMS Group5	8270-Modified	10/27/25	10/28/25	10/30/25	10/28/25

Hit Summary Sheet SW-846

SDG No.: Q3478

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : 38072-061125								
Q3478-01	38072-061125	WATER	Naphthalene	140.000	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	2-Methylnaphthalene	140.000	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Acenaphthylene	56.400	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Acenaphthene	35.600	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Fluorene	130.000	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Phenanthrene	140.000	E	0.03	0.1	ug/L
Q3478-01	38072-061125	WATER	Anthracene	74.700	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Fluoranthene	91.700	E	0.03	0.1	ug/L
Q3478-01	38072-061125	WATER	Pyrene	110.000	E	0.03	0.1	ug/L
Q3478-01	38072-061125	WATER	Benzo(a)anthracene	110.000	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Chrysene	50.300	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Benzo(b)fluoranthene	110.000	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Benzo(k)fluoranthene	150.000	E	0.05	0.1	ug/L
Q3478-01	38072-061125	WATER	Benzo(a)pyrene	55.800	E	0.04	0.1	ug/L
Q3478-01	38072-061125	WATER	Indeno(1,2,3-cd)pyrene	68.900	E	0.05	0.1	ug/L
Q3478-01	38072-061125	WATER	Dibenzo(a,h)anthracene	120.000	E	0.05	0.1	ug/L
Q3478-01	38072-061125	WATER	Benzo(g,h,i)perylene	55.700	E	0.04	0.1	ug/L

Total Svoc : 1,639.10

Total Concentration: 1,639.10

Client ID : 38072-061125DL

Q3478-01DL	38072-061125DL	WATER	Naphthalene	160.000	D	2	5	ug/L
Q3478-01DL	38072-061125DL	WATER	2-Methylnaphthalene	150.000	D	2.1	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Acenaphthylene	45.400	D	1.9	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Acenaphthene	31.400	D	1.9	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Fluorene	150.000	D	1.9	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Phenanthrene	160.000	D	1.7	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Anthracene	65.200	D	1.8	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Fluoranthene	98.300	D	1.7	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Pyrene	120.000	D	1.6	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Benzo(a)anthracene	100.000	D	1.8	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Chrysene	53.500	D	1.9	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Benzo(b)fluoranthene	100.000	D	1.8	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Benzo(k)fluoranthene	160.000	D	2.5	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Benzo(a)pyrene	44.600	D	2.1	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Indeno(1,2,3-cd)pyrene	62.900	D	2.3	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Dibenzo(a,h)anthracene	110.000	D	2.4	5	ug/L
Q3478-01DL	38072-061125DL	WATER	Benzo(g,h,i)perylene	51.300	D	2.1	5	ug/L

Hit Summary Sheet
SW-846

SDG No.: Q3478
Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Svoc :		1,662.60			
		Total Concentration:		1,662.60			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q3478

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB170298BL	PB170298BL	2-Methylnaphthalene-d10	0.4	0.33	83		20	139
		Fluoranthene-d10	0.4	0.33	83		54	157
		Nitrobenzene-d5	0.4	0.36	89		27	154
		2-Fluorobiphenyl	0.4	0.41	101		30	155
		Terphenyl-d14	0.4	0.45	113		54	175
PB170298BS	PB170298BS	2-Methylnaphthalene-d10	0.4	0.36	91		20	139
		Fluoranthene-d10	0.4	0.33	81		54	157
		Nitrobenzene-d5	0.4	0.37	91		27	154
		2-Fluorobiphenyl	0.4	0.41	102		30	155
		Terphenyl-d14	0.4	0.44	109		54	175
Q3478-01	38072-061125	2-Methylnaphthalene-d10	0.4	0.38	94		20	139
		Fluoranthene-d10	0.4	0.37	93		54	157
		Nitrobenzene-d5	0.4	0.38	95		27	154
		2-Fluorobiphenyl	0.4	0.42	106		30	155
		Terphenyl-d14	0.4	0.41	102		54	175
Q3478-01DL	38072-061125DL	2-Methylnaphthalene-d10	0.4	0.35	88		20	139
		Fluoranthene-d10	0.4	0.35	88		54	157
		Nitrobenzene-d5	0.4	0.60	150		27	154
		2-Fluorobiphenyl	0.4	0.65	162	*	30	155
		Terphenyl-d14	0.4	0.45	113		54	175

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: <u>Q3478</u>	Analytical Method: <u>8270-Modified</u>
Client: <u>Alliance Technical Group, LLC - Newark</u>	DataFile: <u>BN038123.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB170298BS	Naphthalene	0.4	0.36	ug/L	90				67	120		
	2-Methylnaphthalene	0.4	0.31	ug/L	78				50	122		
	Acenaphthylene	0.4	0.39	ug/L	98				60	119		
	Acenaphthene	0.4	0.35	ug/L	88				65	119		
	Fluorene	0.4	0.36	ug/L	90				58	122		
	Phenanthrene	0.4	0.37	ug/L	93				65	117		
	Anthracene	0.4	0.36	ug/L	90				57	118		
	Fluoranthene	0.4	0.32	ug/L	80				53	126		
	Pyrene	0.4	0.37	ug/L	93				54	124		
	Benzo(a)anthracene	0.4	0.35	ug/L	88				54	130		
	Chrysene	0.4	0.38	ug/L	95				64	126		
	Benzo(b)fluoranthene	0.4	0.36	ug/L	90				65	121		
	Benzo(k)fluoranthene	0.4	0.37	ug/L	93				72	119		
	Benzo(a)pyrene	0.4	0.38	ug/L	95				68	120		
	Indeno(1,2,3-cd)pyrene	0.4	0.40	ug/L	100				70	127		
	Dibenz(a,h)anthracene	0.4	0.40	ug/L	100				65	121		
	Benzo(g,h,i)perylene	0.4	0.40	ug/L	100				76	117		

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170298BL

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3478

Lab File ID: BN038122.D

Lab Sample ID: PB170298BL

Instrument ID: BNA_N

Date Extracted: 10/28/2025

Matrix: (soil/water) Water

Date Analyzed: 10/30/2025

Level: (low/med) LOW

Time Analyzed: 10:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170298BS	PB170298BS	BN038123.D	10/30/2025
38072-061125	Q3478-01	BN038124.D	10/30/2025

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038110.D
Instrument ID: BNA_N

Contract: ALLI03
SDG NO.: Q3478
DFTPP Injection Date: 10/28/2025
DFTPP Injection Time: 12:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	83.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17 (19.9) 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	BN038111.D	10/28/2025	13:00
SSTDICC0.2	SSTDICC0.2	BN038112.D	10/28/2025	13:36
SSTDICCC0.4	SSTDICCC0.4	BN038113.D	10/28/2025	14:13
SSTDICC0.8	SSTDICC0.8	BN038114.D	10/28/2025	14:49
SSTDICC1.6	SSTDICC1.6	BN038115.D	10/28/2025	15:25
SSTDICC3.2	SSTDICC3.2	BN038116.D	10/28/2025	16:02
SSTDICC5.0	SSTDICC5.0	BN038117.D	10/28/2025	16:38



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038120.D
Instrument ID: BNA_N

Contract: ALLI03
SDG NO.: Q3478
DFTPP Injection Date: 10/30/2025
DFTPP Injection Time: 09:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	782
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.1 (19) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038121.D	10/30/2025	10:01
PB170298BL	PB170298BL	BN038122.D	10/30/2025	10:49
PB170298BS	PB170298BS	BN038123.D	10/30/2025	11:25
38072-061125	Q3478-01	BN038124.D	10/30/2025	13:12
38072-061125DL	Q3478-01DL	BN038125.D	10/30/2025	16:08

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3478

Client ID : SSTDCCC0.4

Date Analyzed: 10/30/2025

Lab File ID: BN038121.D

Time Analyzed: 10:01

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	9463	7.775	27993	10.58	15485	14.44
UPPER LIMIT	18926	8.275	55986	11.084	30970	14.941
LOWER LIMIT	4731.5	7.275	13996.5	10.084	7742.5	13.941
EPA SAMPLE NO.						
01 PB170298BL	9151	7.79	25373	10.59	13033	14.44
02 PB170298BS	11299	7.78	32410	10.58	16943	14.44
03 38072-061125	8933	7.78	29561	10.58	16222	14.44
04 38072-061125DL	8055	7.79	24698	10.59	13761	14.44

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3478

Client ID: SSTDCCC0.4

Date Analyzed: 10/30/2025

Lab File ID: BN038121.D

Time Analyzed: 10:01

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	29995	17.186	22293	21.375	19014	23.689
UPPER LIMIT	59990	17.686	44586	21.875	38028	24.189
LOWER LIMIT	14997.5	16.686	11146.5	20.875	9507	23.189
EPA SAMPLE NO.						
01 PB170298BL	24037	17.20	15940	21.38	14550	23.70
02 PB170298BS	31505	17.19	21109	21.38	17709	23.69
03 38072-061125	31316	17.20	25983	21.38	18372	23.70
04 38072-061125DL	26746	17.20	22626	21.38	17244	23.70

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Waste Water PT
Client Sample ID: 38072-061125
Lab Sample ID: Q3478-01
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL
Prep Method : 3510 Prep Date: 10/28/25 13:30

Date Collected: 10/27/25
Date Received: 10/28/25
SDG No.: Q3478
Matrix: Water
% Solid: 0
Test: SVOCMS Group5

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	140	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
91-57-6	2-Methylnaphthalene	140	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
208-96-8	Acenaphthylene	56.4	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
83-32-9	Acenaphthene	35.6	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
86-73-7	Fluorene	130	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
85-01-8	Phenanthrene	140	E	1	0.030	0.10	ug/L	10/30/25 13:12	PB170298
120-12-7	Anthracene	74.7	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
206-44-0	Fluoranthene	91.7	E	1	0.030	0.10	ug/L	10/30/25 13:12	PB170298
129-00-0	Pyrene	110	E	1	0.030	0.10	ug/L	10/30/25 13:12	PB170298
56-55-3	Benzo(a)anthracene	110	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
218-01-9	Chrysene	50.3	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
205-99-2	Benzo(b)fluoranthene	110	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
207-08-9	Benzo(k)fluoranthene	150	E	1	0.050	0.10	ug/L	10/30/25 13:12	PB170298
50-32-8	Benzo(a)pyrene	55.8	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
193-39-5	Indeno(1,2,3-cd)pyrene	68.9	E	1	0.050	0.10	ug/L	10/30/25 13:12	PB170298
53-70-3	Dibenzo(a,h)anthracene	120	E	1	0.050	0.10	ug/L	10/30/25 13:12	PB170298
191-24-2	Benzo(g,h,i)perylene	55.7	E	1	0.040	0.10	ug/L	10/30/25 13:12	PB170298
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.38			20 - 139	94%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.37			54 - 157	93%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.38			27 - 154	95%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.42			30 - 155	106%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.41			54 - 175	102%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	8930							
1146-65-2	Naphthalene-d8	29600							
15067-26-2	Acenaphthene-d10	16200							
1517-22-2	Phenanthrene-d10	31300							
1719-03-5	Chrysene-d12	26000							
1520-96-3	Perylene-d12	18400							

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\BN103025\
 Data File : BN038124.D
 Acq On : 30 Oct 2025 13:12
 Operator : RC/JU
 Sample : Q3478-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 38072-061125

Quant Time: Oct 30 13:40:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration

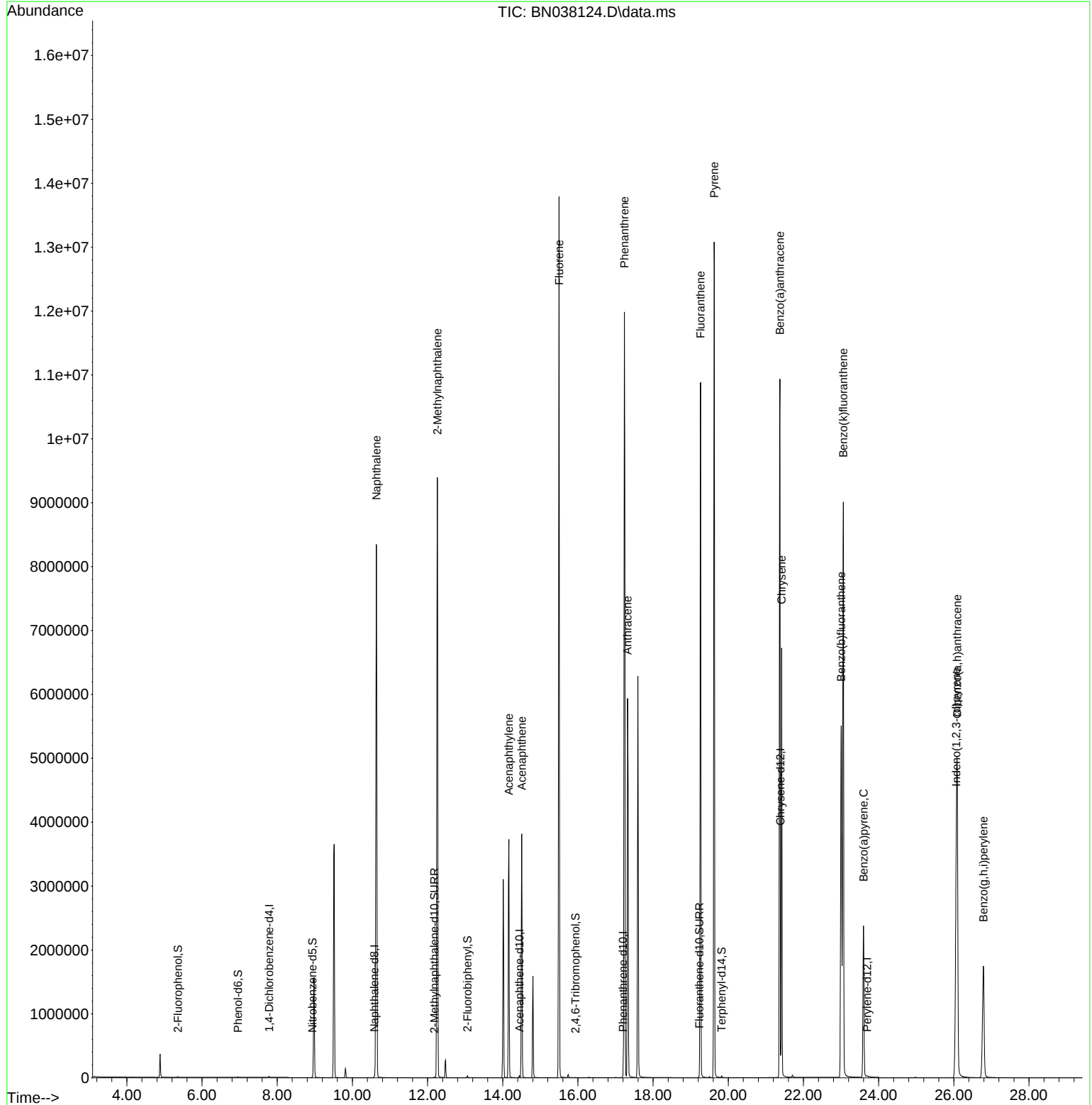
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.782	152	8933	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	29561	0.400	ng	# 0.01
13) Acenaphthene-d10	14.441	164	16222	0.400	ng	0.01
19) Phenanthrene-d10	17.198	188	31316	0.400	ng	# 0.01
29) Chrysene-d12	21.384	240	25983	0.400	ng	0.00
35) Perylene-d12	23.695	264	18372	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.356	112	7484	0.356	ng	0.00
5) Phenol-d6	6.952	99	8834	0.345	ng	0.01
8) Nitrobenzene-d5	8.939	82	9088	0.381	ng	0.01
11) 2-Methylnaphthalene-d10	12.182	152	15898	0.377	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	1740	0.260	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	27536	0.424	ng	0.01
27) Fluoranthene-d10	19.229	212	29473	0.373	ng	0.00
31) Terphenyl-d14	19.824	244	22949	0.407	ng	0.00
Target Compounds						
9) Naphthalene	10.637	128	11436494	140.451	ng	Qvalue 98
12) 2-Methylnaphthalene	12.263	142	7444810	137.119	ng	97
16) Acenaphthylene	14.163	152	4144339	56.413	ng	99
17) Acenaphthene	14.505	154	1827315	35.552	ng	98
18) Fluorene	15.499	166	8992260	133.488	ng	95
25) Phenanthrene	17.235	178	13736617	138.168	ng	97
26) Anthracene	17.322	178	6492627	74.652	ng	98
28) Fluoranthene	19.262	202	10188126	91.709	ng	96
30) Pyrene	19.624	202	12711271	108.376	ng	96
32) Benzo(a)anthracene	21.375	228	10075000	108.683	ng	95
33) Chrysene	21.420	228	5063658	50.335	ng	98
36) Indeno(1,2,3-cd)pyrene	26.066	276	5203268	68.933	ng	93
37) Benzo(b)fluoranthene	23.005	252	8377644	106.654	ng	# 92
38) Benzo(k)fluoranthene	23.060	252	12225787	154.635	ng	# 92
39) Benzo(a)pyrene	23.598	252	3505338	55.750	ng	# 83
40) Dibenzo(a,h)anthracene	26.089	278	6843074	117.822	ng	93
41) Benzo(g,h,i)perylene	26.788	276	3692408	55.663	ng	97

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

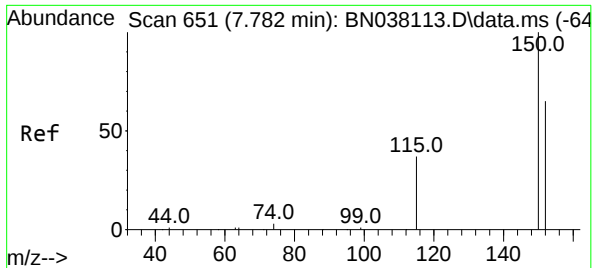
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Data File : BN038124.D
Acq On : 30 Oct 2025 13:12
Operator : RC/JU
Sample : Q3478-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-061125

Quant Time: Oct 30 13:40:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration



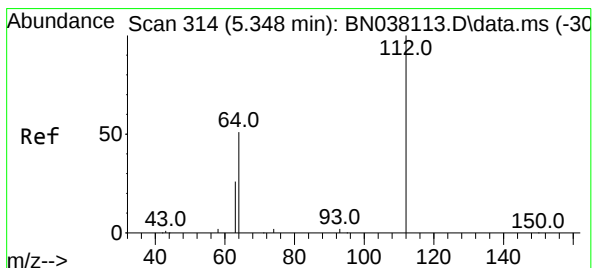
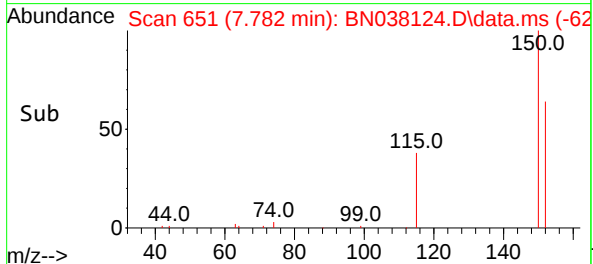
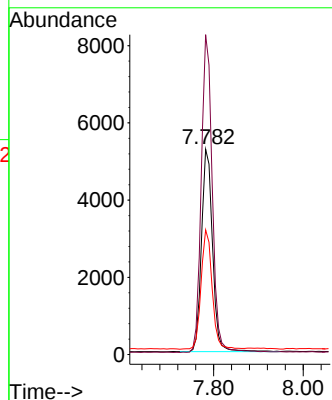
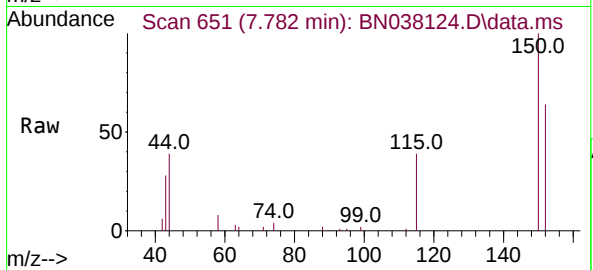
1
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#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.782 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

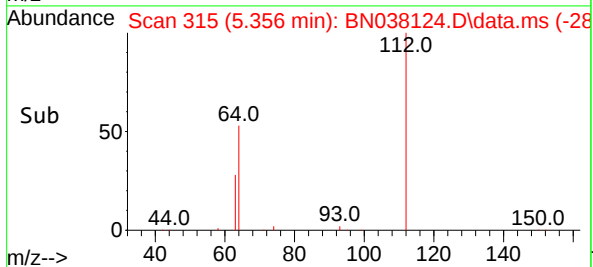
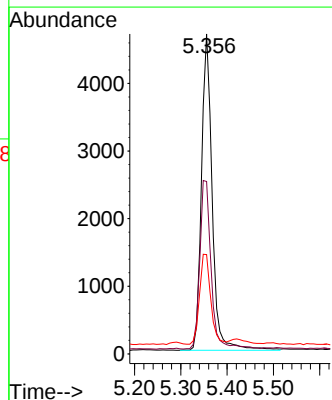
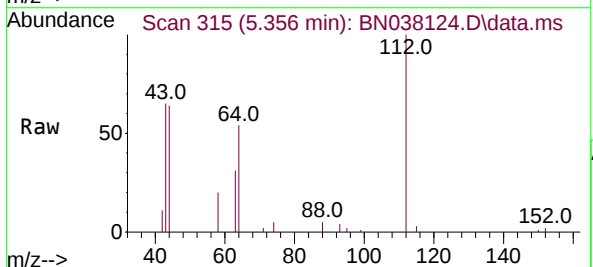
Instrument :
BNA_N
ClientSampleId :
38072-061125

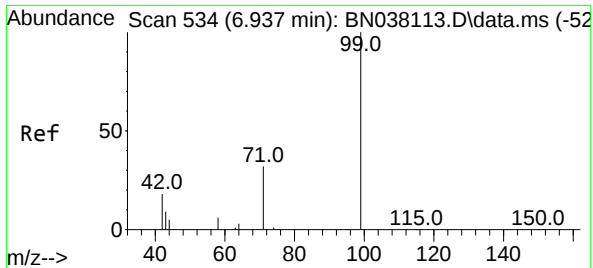
Tgt Ion:152 Resp: 8933
Ion Ratio Lower Upper
152 100
150 155.8 122.3 183.5
115 60.7 47.4 71.0



#4
2-Fluorophenol
Concen: 0.356 ng
RT: 5.356 min Scan# 315
Delta R.T. 0.007 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:112 Resp: 7484
Ion Ratio Lower Upper
112 100
64 56.5 45.4 68.0
63 29.6 23.2 34.8

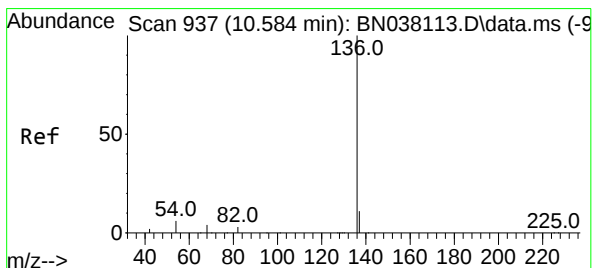
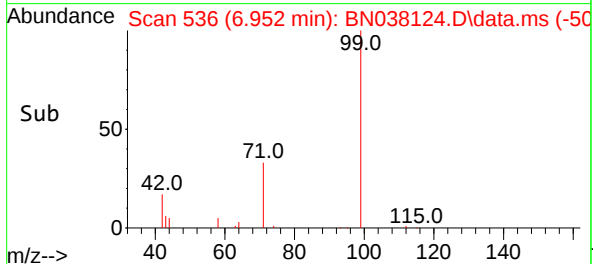
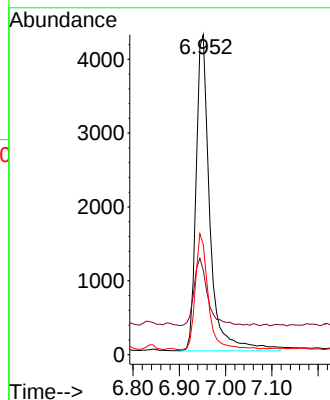
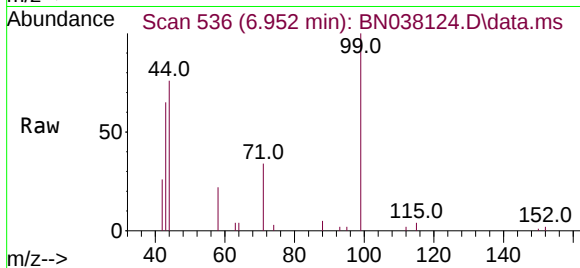




#5
Phenol-d6
Concen: 0.345 ng
RT: 6.952 min Scan# 534
Delta R.T. 0.014 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

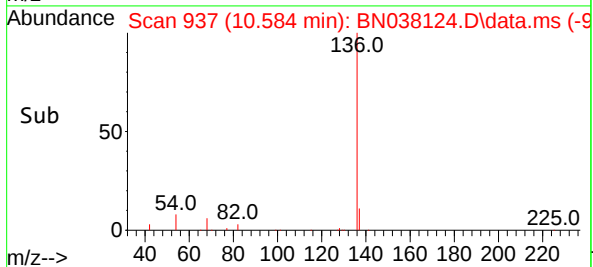
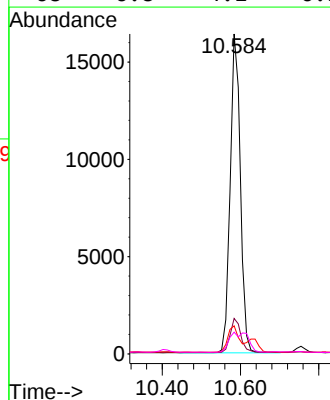
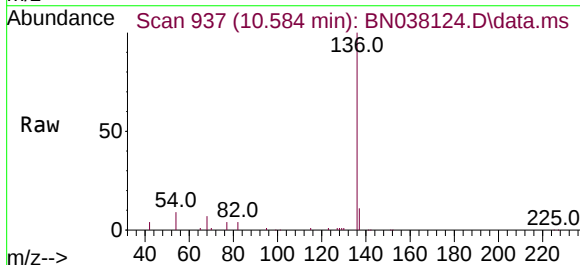
Instrument :
BNA_N
ClientSampleId :
38072-061125

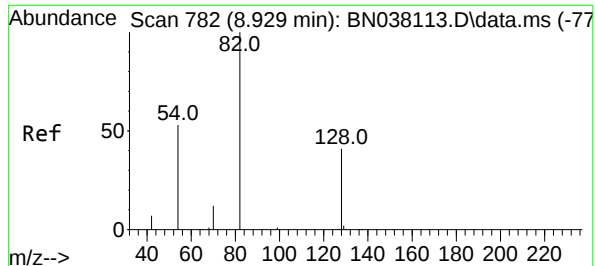
Tgt Ion: 99 Resp: 8834
Ion Ratio Lower Upper
99 100
42 20.8 16.6 24.8
71 34.3 25.4 38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 937
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion: 136 Resp: 29561
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.4
54 8.8 5.2 7.8#
68 6.8 4.1 6.1#

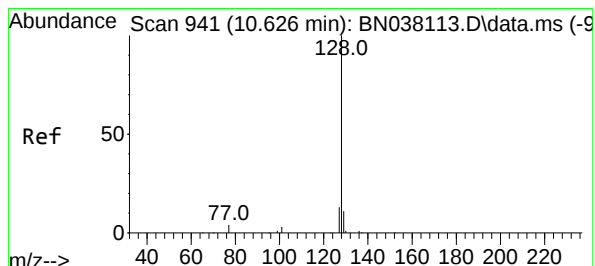
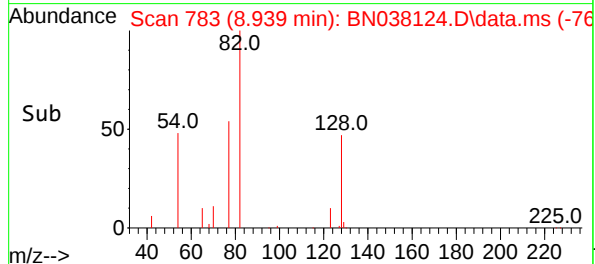
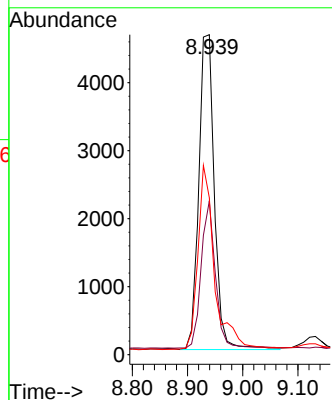
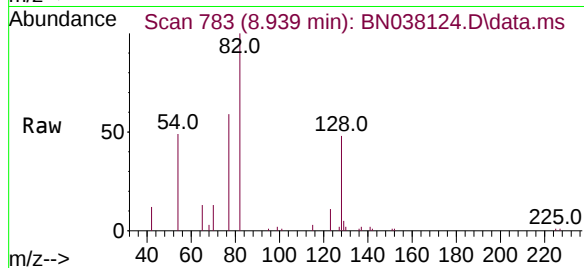




#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.939 min Scan# 782
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

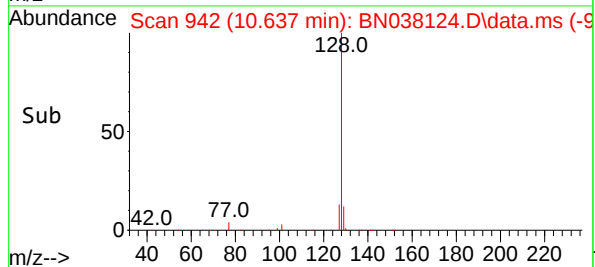
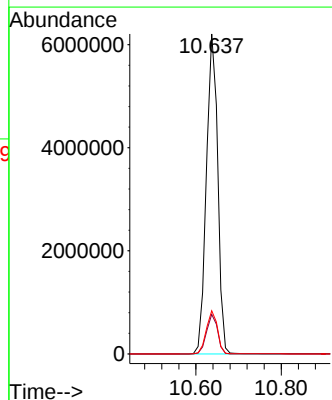
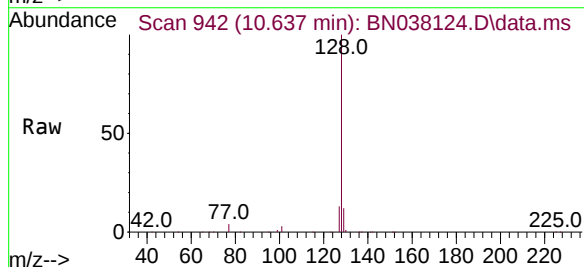
Instrument :
BNA_N
ClientSampleId :
38072-061125

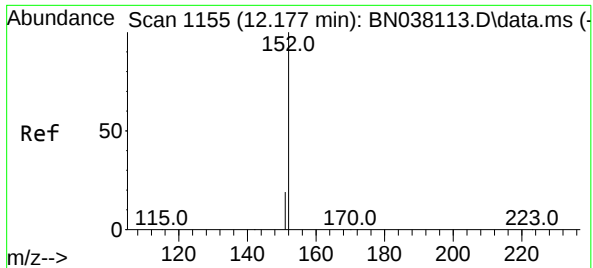
Tgt Ion:	82	Resp:	9088
Ion Ratio	Lower	Upper	
82	100		
128	48.0	34.1	51.1
54	49.0	43.5	65.3



#9
Naphthalene
Concen: 140.451 ng
RT: 10.637 min Scan# 942
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:	128	Resp:	11436494
Ion Ratio	Lower	Upper	
128	100		
129	12.3	9.1	13.7
127	13.5	10.5	15.7

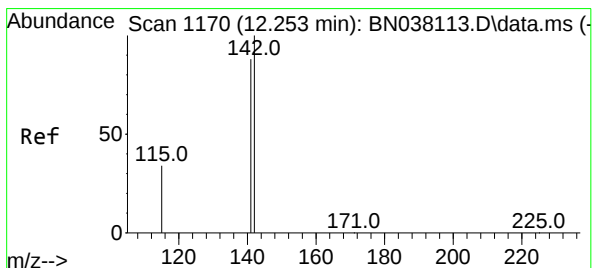
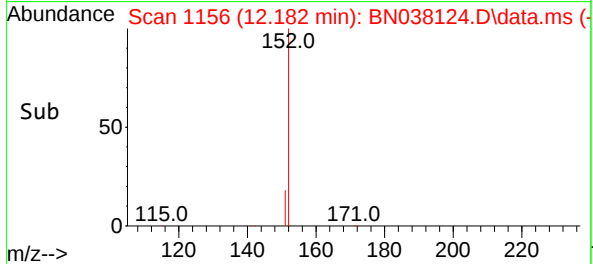
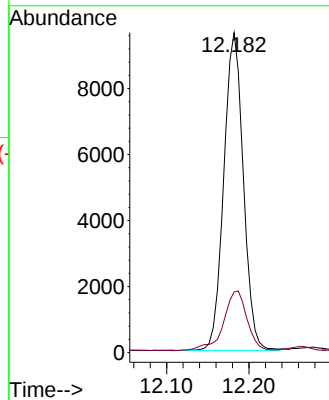
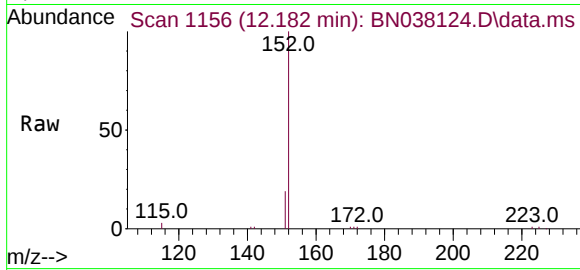




#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

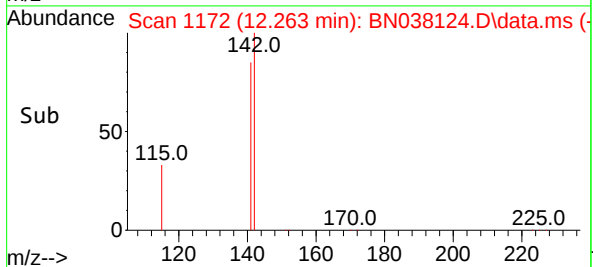
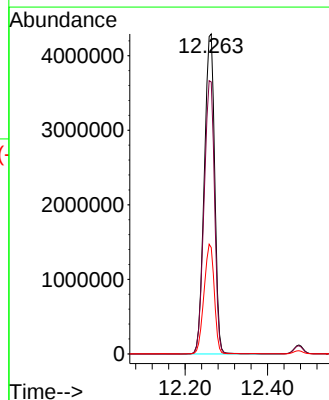
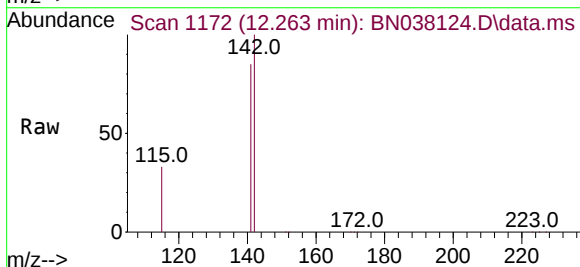
Instrument :
BNA_N
ClientSampleId :
38072-061125

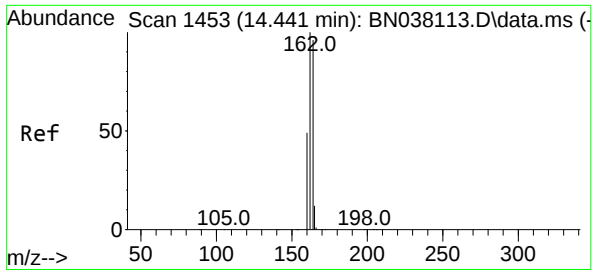
Tgt Ion:152 Resp: 15898
Ion Ratio Lower Upper
152 100
151 22.6 16.8 25.2



#12
2-Methylnaphthalene
Concen: 137.119 ng
RT: 12.263 min Scan# 1172
Delta R.T. 0.015 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:142 Resp: 7444810
Ion Ratio Lower Upper
142 100
141 85.0 70.3 105.5
115 33.2 27.8 41.6

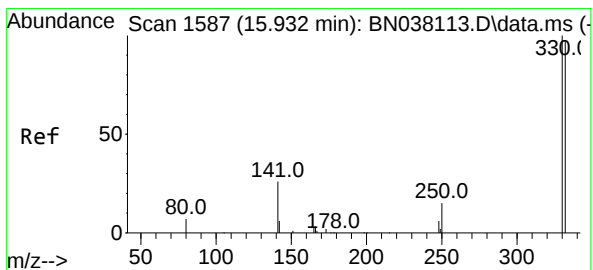
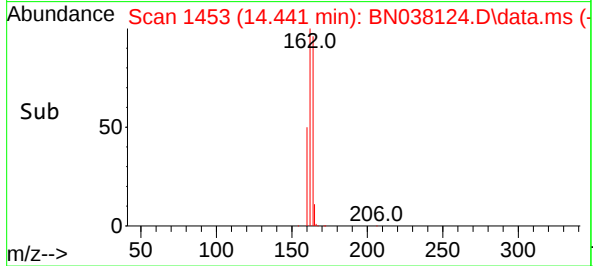
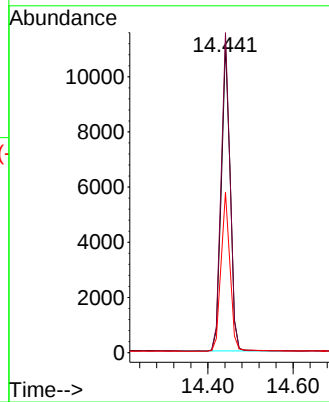
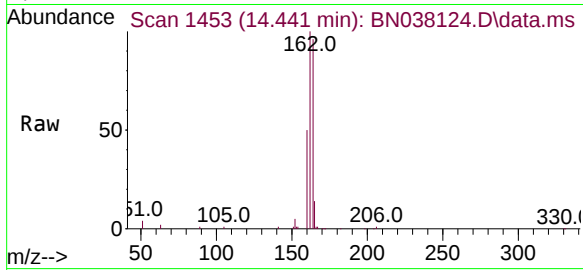




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

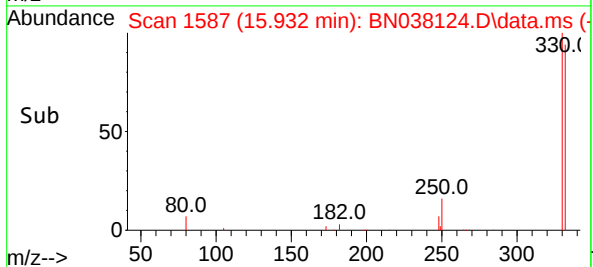
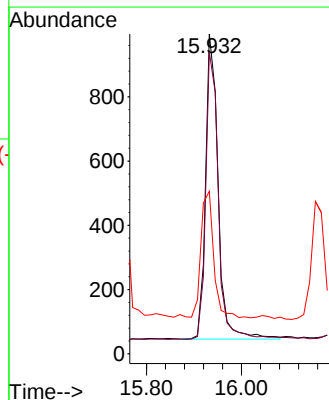
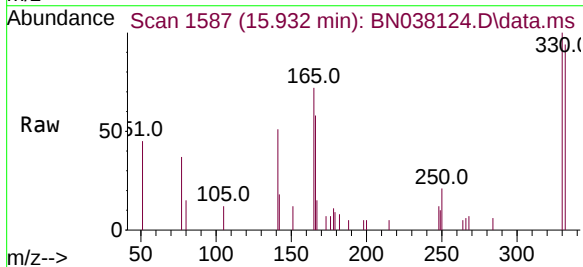
Instrument :
BNA_N
ClientSampleId :
38072-061125

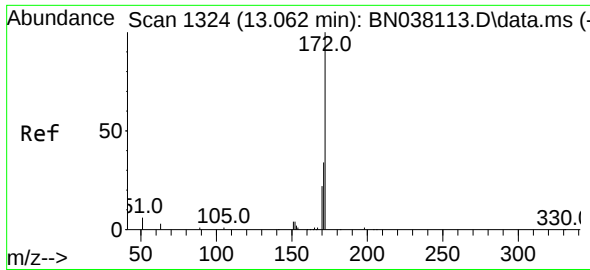
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	83.0	124.4
160	52.0	40.7	61.1



#14
2,4,6-Tribromophenol
Concen: 0.260 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.7	76.6	114.8
141	42.0	34.1	51.1

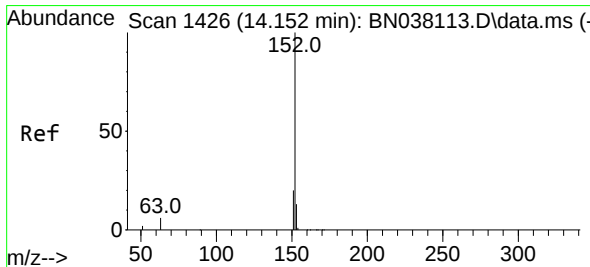
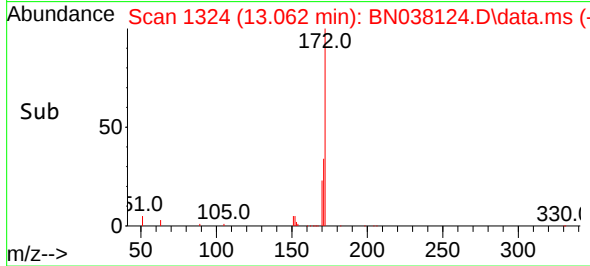
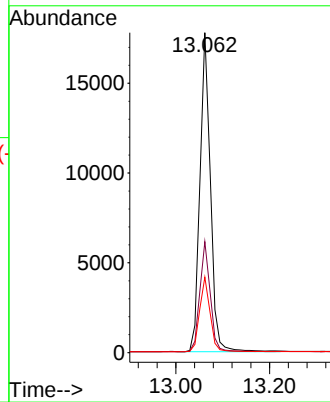
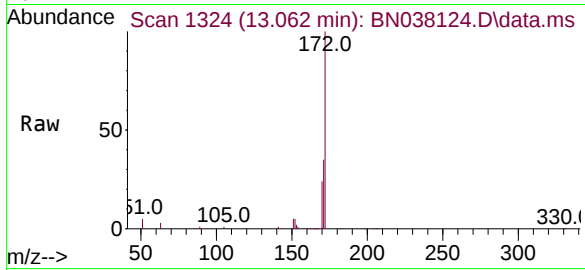




#15
2-Fluorobiphenyl
Concen: 0.424 ng
RT: 13.062 min Scan# 1324
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

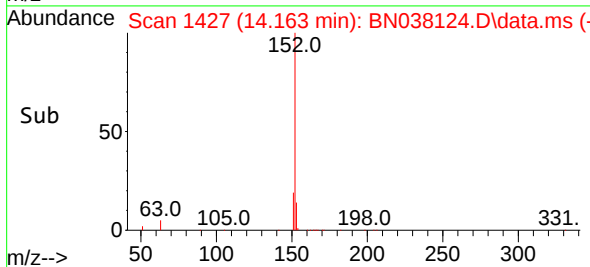
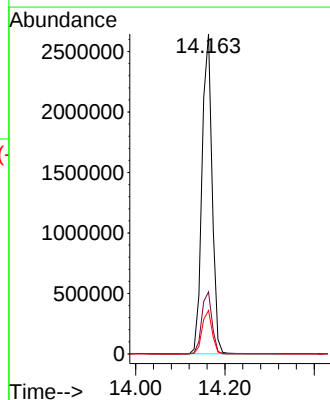
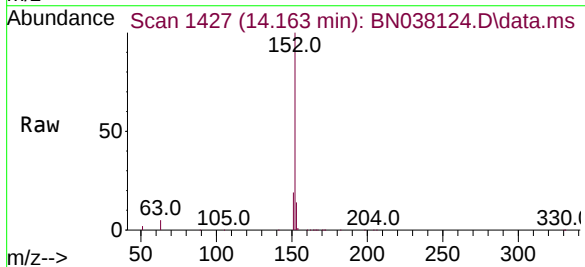
Instrument :
BNA_N
ClientSampleId :
38072-061125

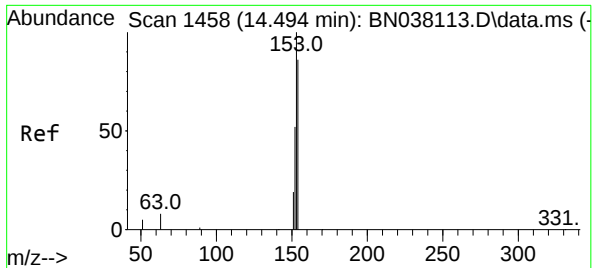
Tgt Ion:	172	Resp:	27536
Ion Ratio	Lower	Upper	
172	100		
171	34.7	27.8	41.6
170	23.6	18.1	27.1



#16
Acenaphthylene
Concen: 56.413 ng
RT: 14.163 min Scan# 1427
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:	152	Resp:	4144339
Ion Ratio	Lower	Upper	
152	100		
151	19.8	15.8	23.8
153	13.4	10.2	15.2

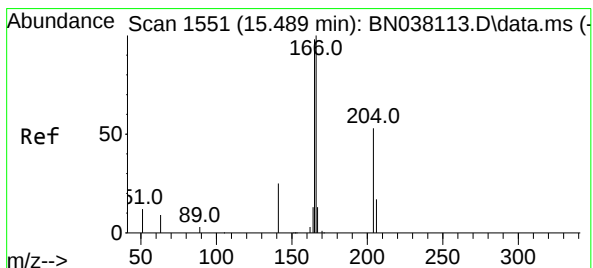
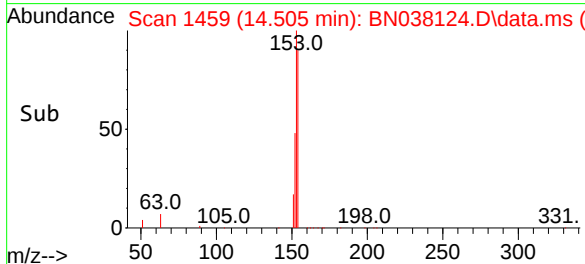
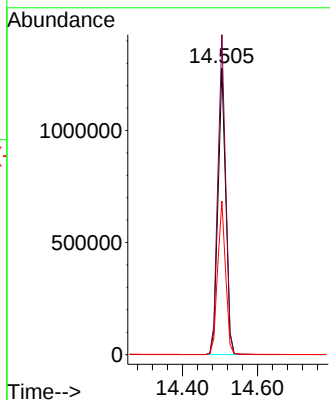
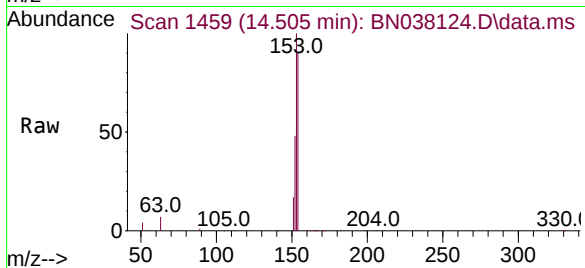




#17
Acenaphthene
Concen: 35.552 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.011 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

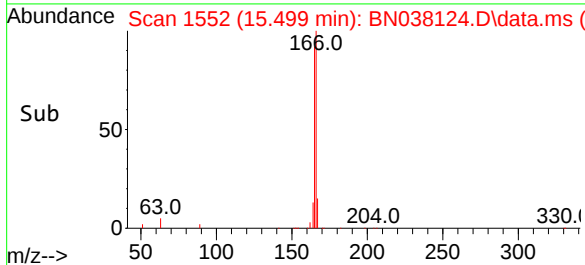
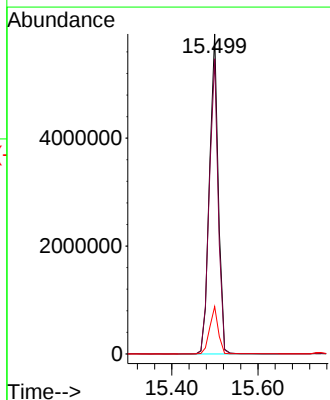
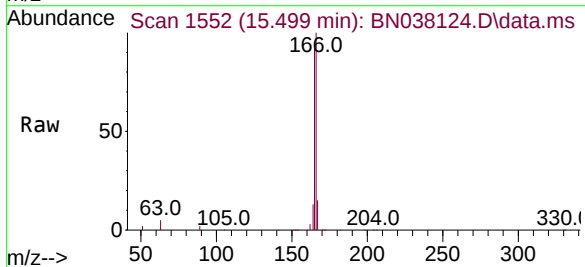
Instrument :
BNA_N
ClientSampleId :
38072-061125

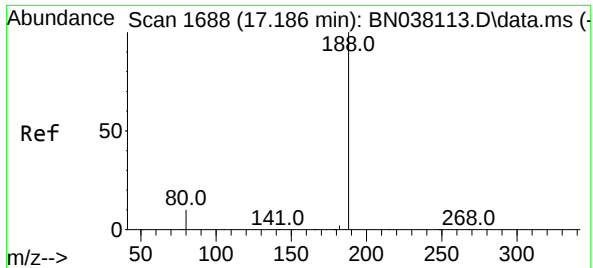
Tgt Ion:154 Resp: 1827315
Ion Ratio Lower Upper
154 100
153 112.3 90.0 135.0
152 54.6 47.3 70.9



#18
Fluorene
Concen: 133.488 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.010 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:166 Resp: 8992260
Ion Ratio Lower Upper
166 100
165 92.8 79.0 118.4
167 14.2 10.7 16.1

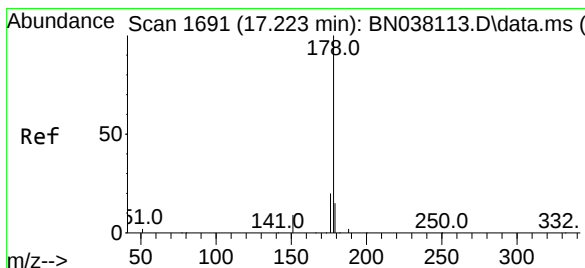
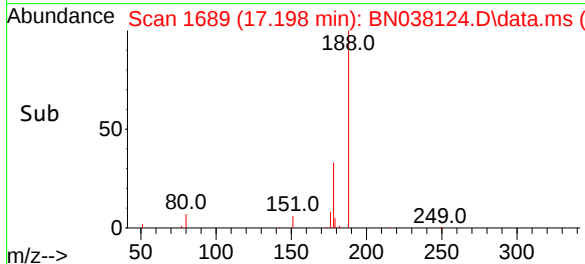
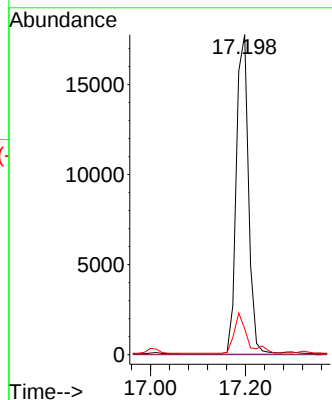
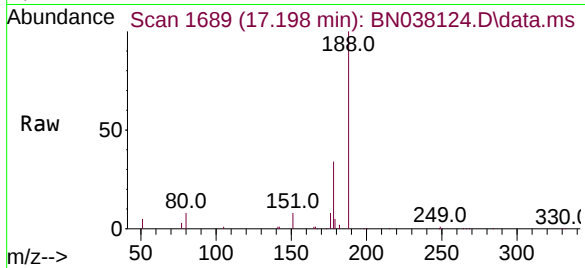




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. 0.012 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

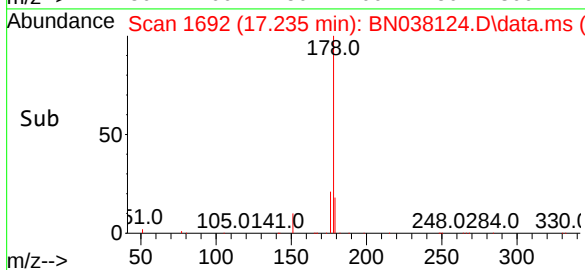
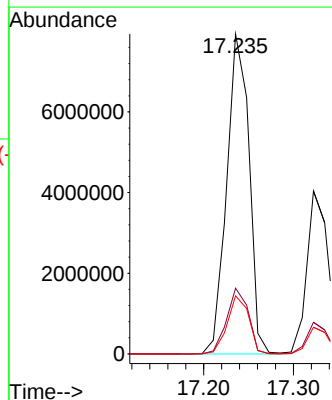
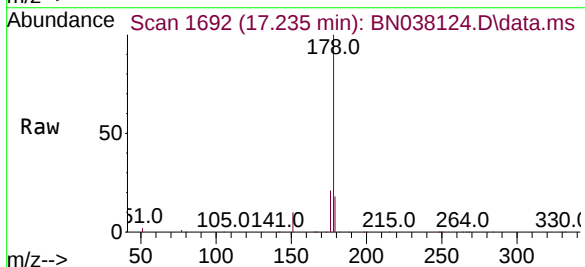
Instrument :
BNA_N
ClientSampleId :
38072-061125

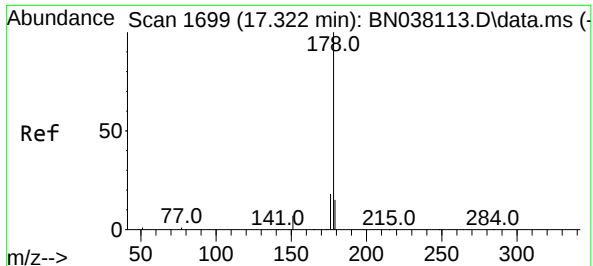
Tgt Ion:188 Resp: 31316
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.1 8.6 13.0#



#25
Phenanthrene
Concen: 138.168 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.012 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:178 Resp:13736617
Ion Ratio Lower Upper
178 100
176 19.9 15.5 23.3
179 17.5 12.2 18.4





#26

Anthracene

Concen: 74.652 ng

RT: 17.322 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN038124.D

Acq: 30 Oct 2025 13:12

Instrument :

BNA_N

ClientSampleId :

38072-061125

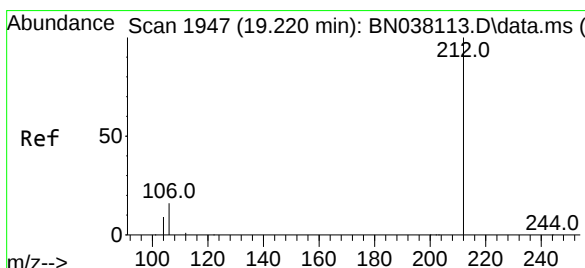
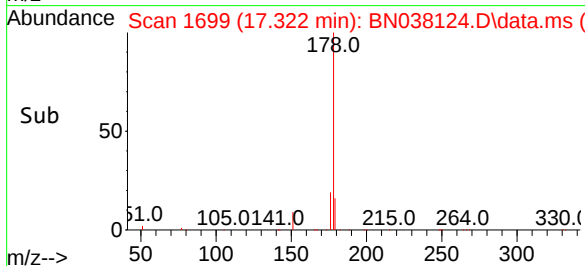
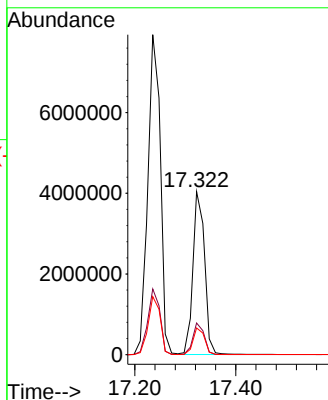
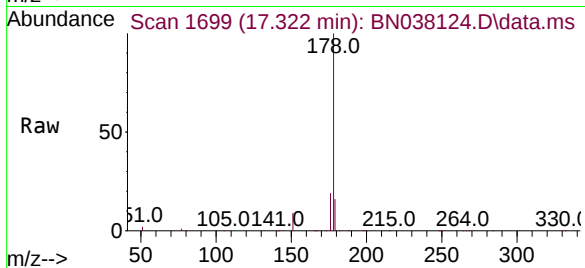
Tgt Ion:178 Resp: 6492627

Ion Ratio Lower Upper

178 100

176 18.9 14.9 22.3

179 16.2 11.8 17.8



#27

Fluoranthene-d10

Concen: 0.373 ng

RT: 19.229 min Scan# 1949

Delta R.T. 0.009 min

Lab File: BN038124.D

Acq: 30 Oct 2025 13:12

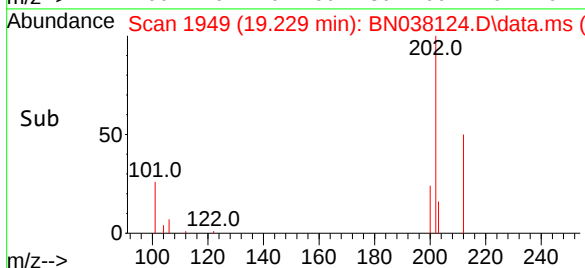
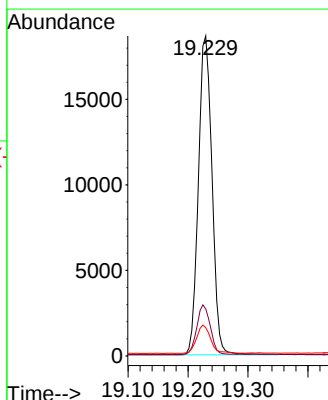
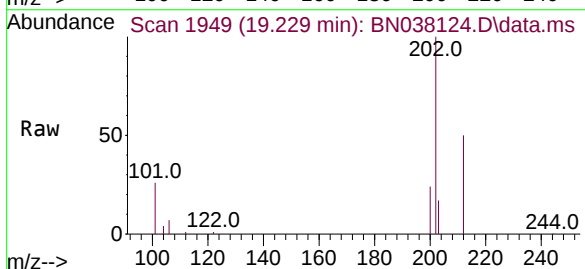
Tgt Ion:212 Resp: 29473

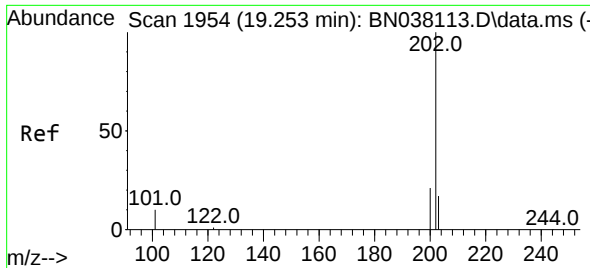
Ion Ratio Lower Upper

212 100

106 15.4 12.6 19.0

104 9.1 7.1 10.7

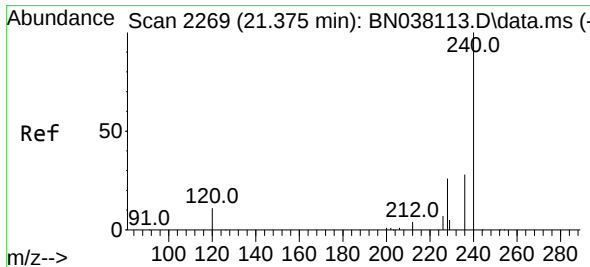
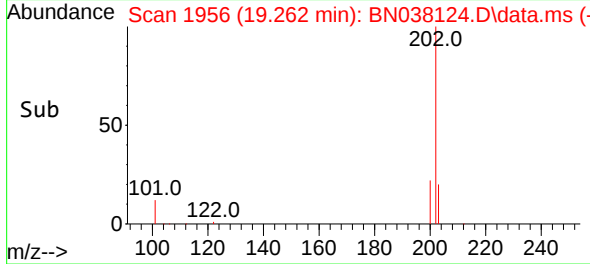
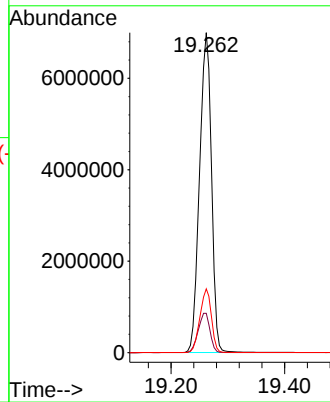
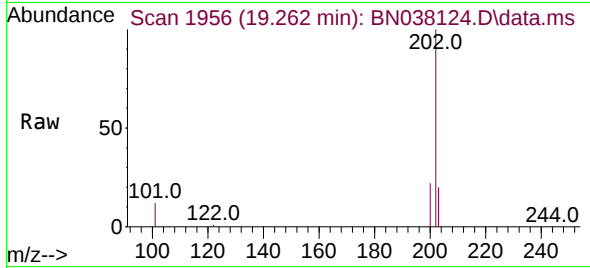




#28
Fluoranthene
Concen: 91.709 ng
RT: 19.262 min Scan# 1956
Delta R.T. 0.009 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

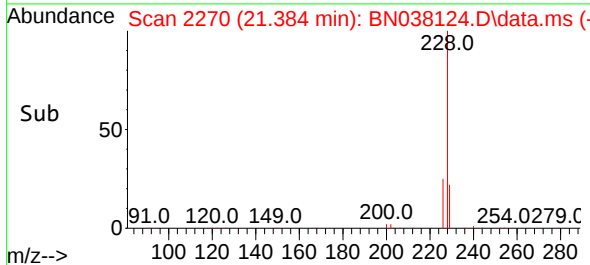
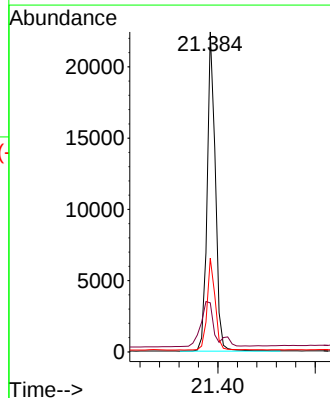
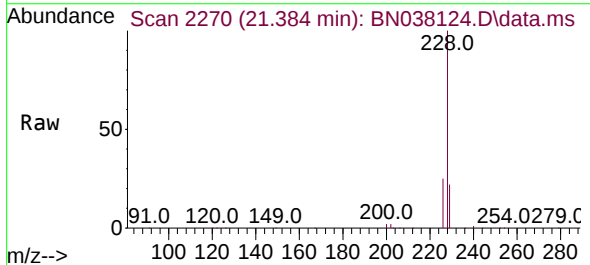
Instrument :
BNA_N
ClientSampleId :
38072-061125

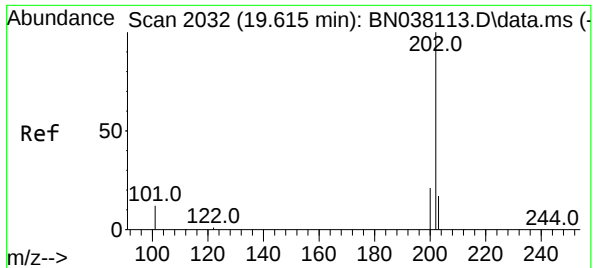
Tgt Ion:202 Resp:10188126
Ion Ratio Lower Upper
202 100
101 12.2 9.4 14.2
203 19.2 13.4 20.2



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.009 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:240 Resp: 25983
Ion Ratio Lower Upper
240 100
120 15.3 10.7 16.1
236 29.3 23.1 34.7

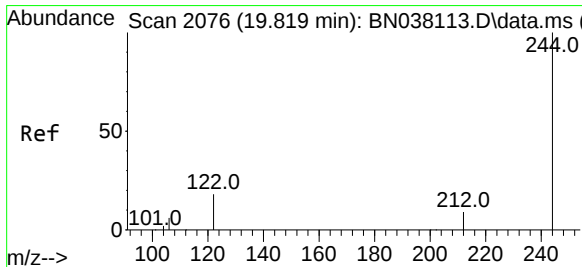
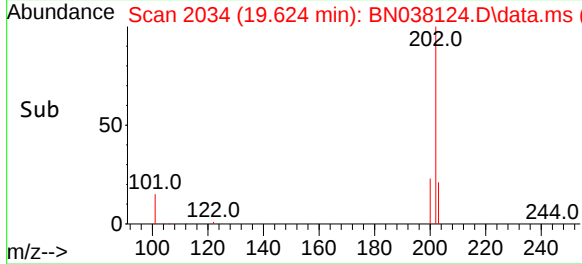
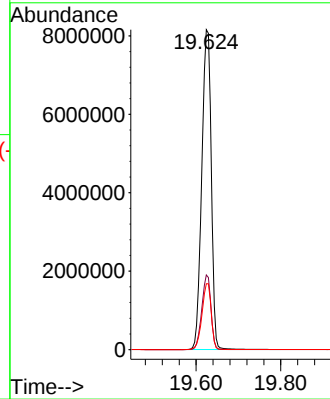
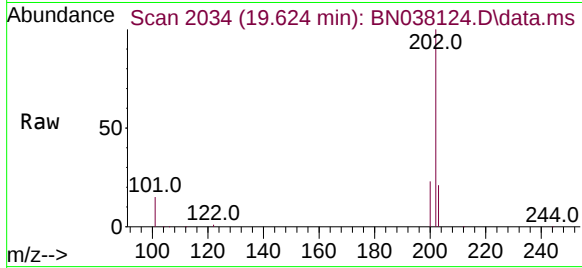




#30
Pyrene
Concen: 108.376 ng
RT: 19.624 min Scan# 2032
Delta R.T. 0.014 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

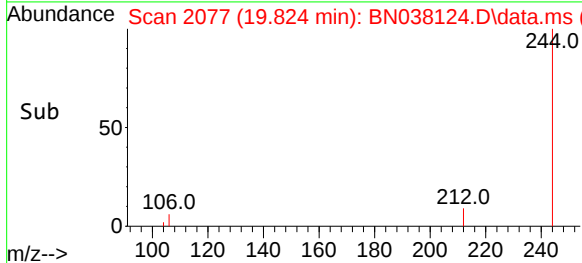
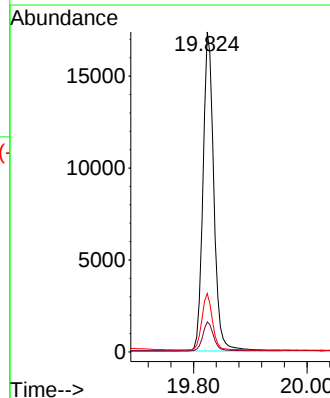
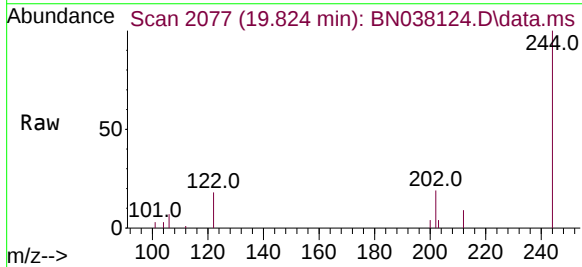
Instrument :
BNA_N
ClientSampleId :
38072-061125

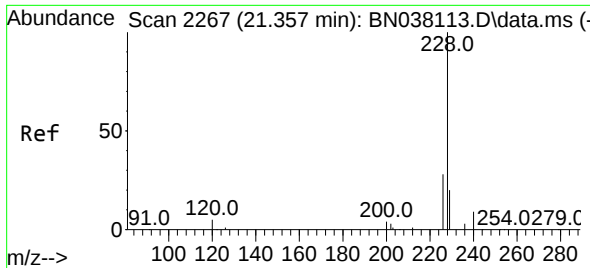
Tgt Ion:202 Resp:12711271
Ion Ratio Lower Upper
202 100
200 22.4 16.7 25.1
203 20.1 14.2 21.2



#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.824 min Scan# 2077
Delta R.T. 0.005 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:244 Resp: 22949
Ion Ratio Lower Upper
244 100
212 9.4 7.8 11.6
122 18.2 15.2 22.8

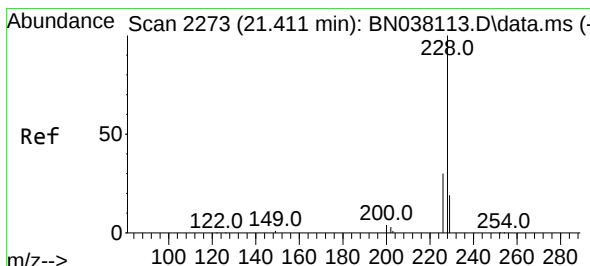
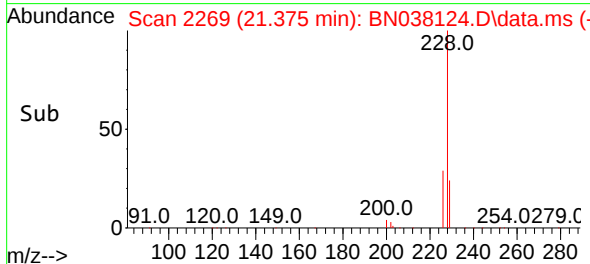
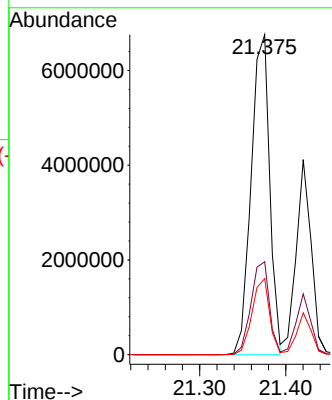
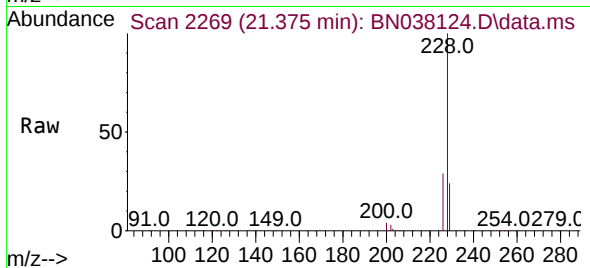




#32
Benzo(a)anthracene
Concen: 108.683 ng
RT: 21.375 min Scan# 21
Delta R.T. 0.018 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

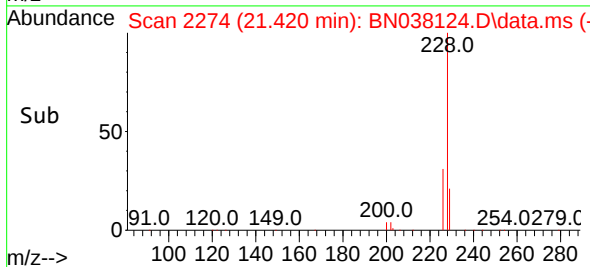
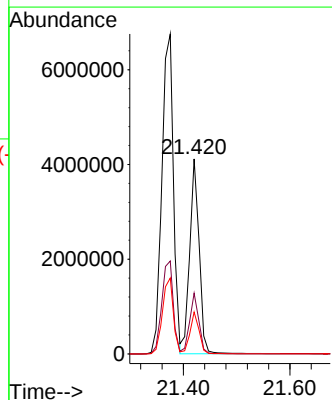
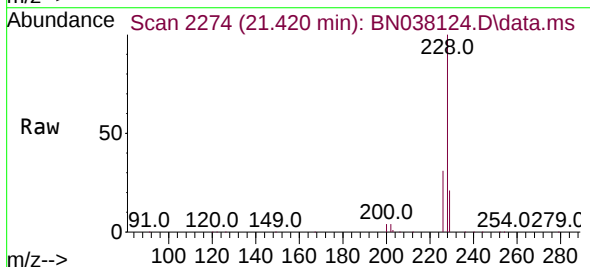
Instrument :
BNA_N
ClientSampleId :
38072-061125

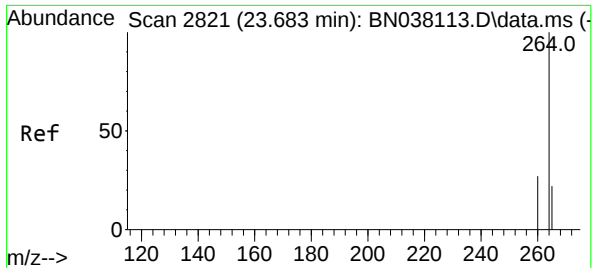
Tgt Ion:228 Resp:10075000
Ion Ratio Lower Upper
228 100
226 29.0 22.2 33.4
229 23.7 15.8 23.8



#33
Chrysene
Concen: 50.335 ng
RT: 21.420 min Scan# 2274
Delta R.T. 0.009 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

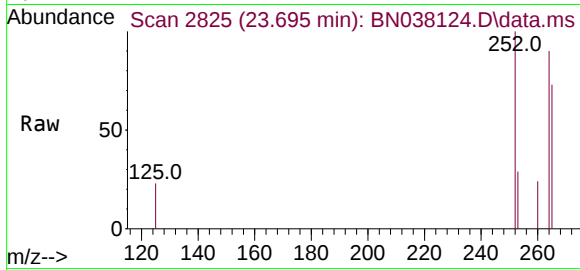
Tgt Ion:228 Resp: 5063658
Ion Ratio Lower Upper
228 100
226 31.2 24.3 36.5
229 21.4 15.7 23.5



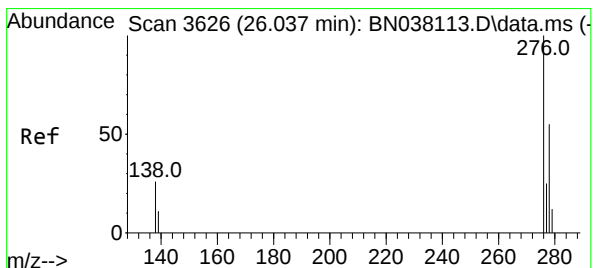
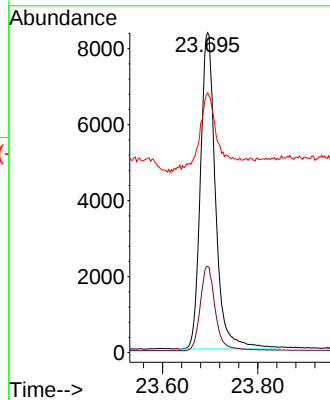
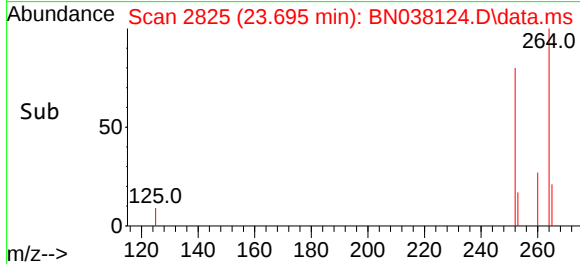


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.695 min Scan# 2825
Delta R.T. 0.015 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Instrument :
BNA_N
ClientSampleId :
38072-061125

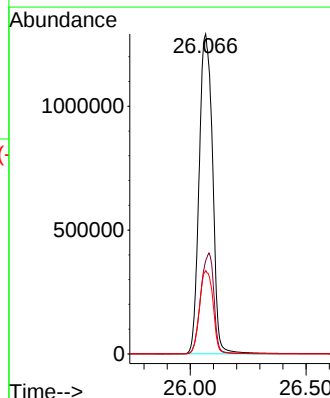
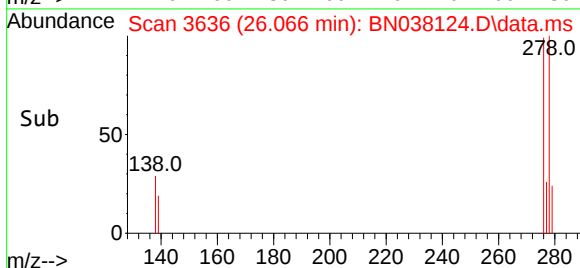
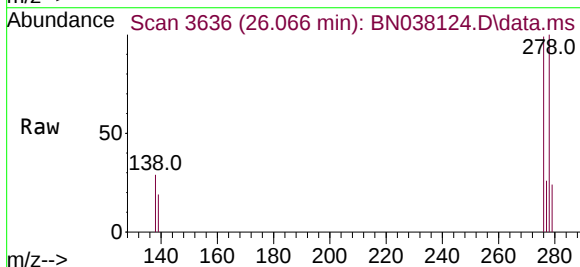


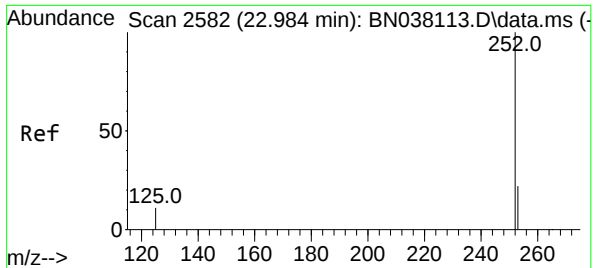
Tgt Ion:264 Resp: 18372
Ion Ratio Lower Upper
264 100
260 26.9 21.8 32.8
265 81.2 68.6 102.8



#36
Indeno(1,2,3-cd)pyrene
Concen: 68.933 ng
RT: 26.066 min Scan# 3636
Delta R.T. 0.032 min
Lab File: BN038124.D
Acq: 30 Oct 2025 13:12

Tgt Ion:276 Resp: 5203268
Ion Ratio Lower Upper
276 100
138 31.0 21.4 32.0
277 26.4 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 106.654 ng

RT: 23.005 min Scan# 21

Delta R.T. 0.023 min

Lab File: BN038124.D

Acq: 30 Oct 2025 13:12

Instrument :

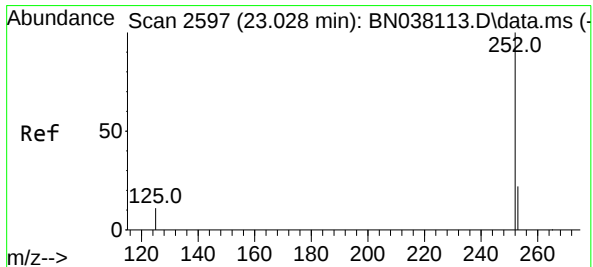
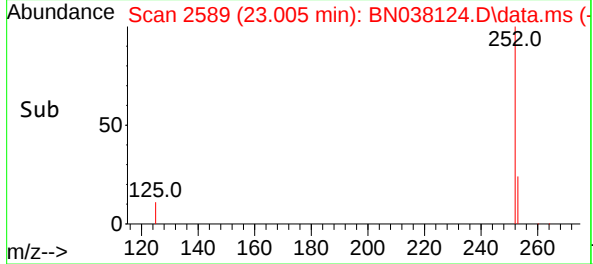
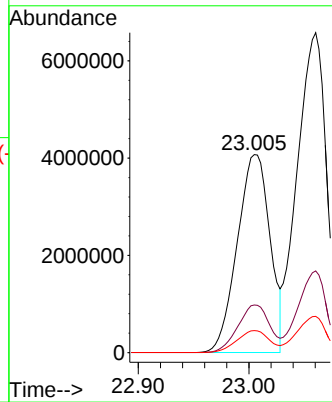
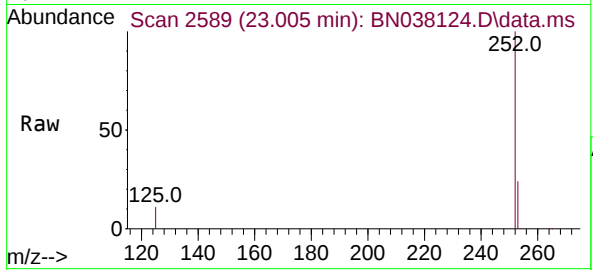
BNA_N

ClientSampleId :

38072-061125

Tgt Ion:252 Resp: 8377644

Ion	Ratio	Lower	Upper
252	100		
253	24.1	20.9	31.3
125	11.1	14.1	21.1



#38

Benzo(k)fluoranthene

Concen: 154.635 ng

RT: 23.060 min Scan# 2608

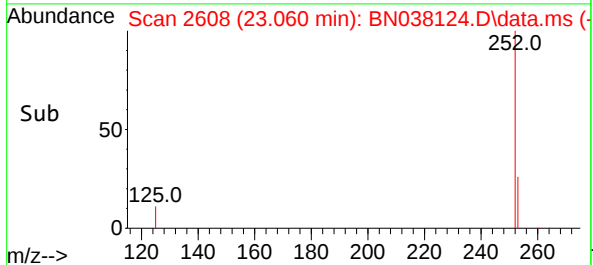
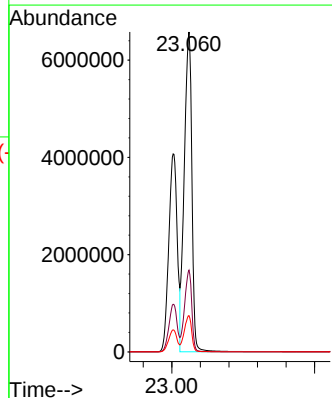
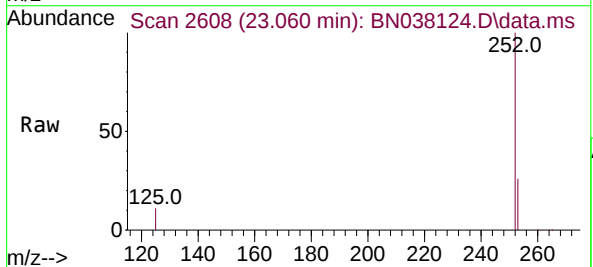
Delta R.T. 0.032 min

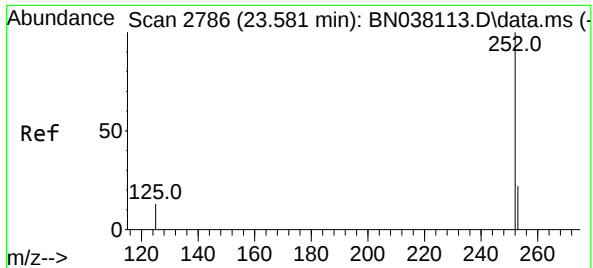
Lab File: BN038124.D

Acq: 30 Oct 2025 13:12

Tgt Ion:252 Resp:12225787

Ion	Ratio	Lower	Upper
252	100		
253	25.5	21.2	31.8
125	11.3	14.6	22.0





#39

Benzo(a)pyrene

Concen: 55.750 ng

RT: 23.598 min Scan# 21

Delta R.T. 0.021 min

Lab File: BN038124.D

Acq: 30 Oct 2025 13:12

Instrument :

BNA_N

ClientSampleId :

38072-061125

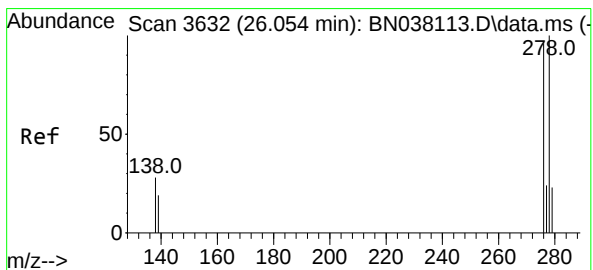
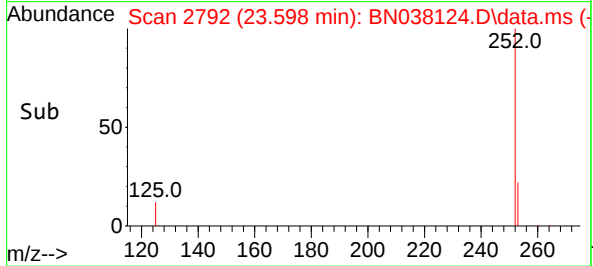
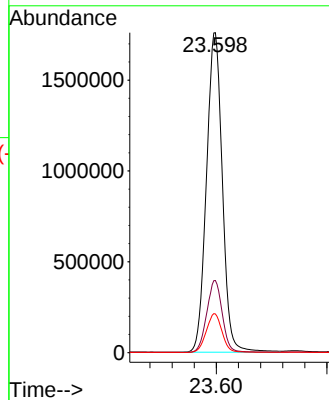
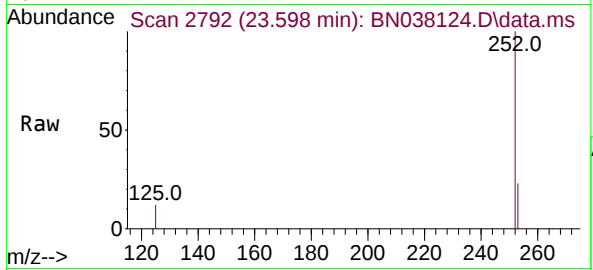
Tgt Ion:252 Resp: 3505338

Ion Ratio Lower Upper

252 100

253 22.5 23.1 34.7#

125 12.1 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 117.822 ng

RT: 26.089 min Scan# 3644

Delta R.T. 0.041 min

Lab File: BN038124.D

Acq: 30 Oct 2025 13:12

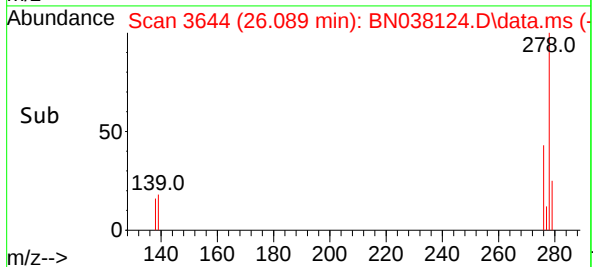
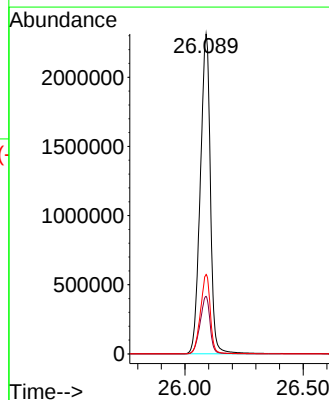
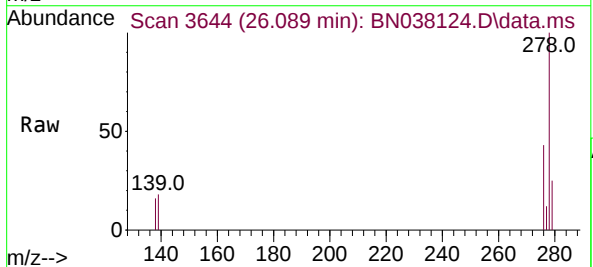
Tgt Ion:278 Resp: 6843074

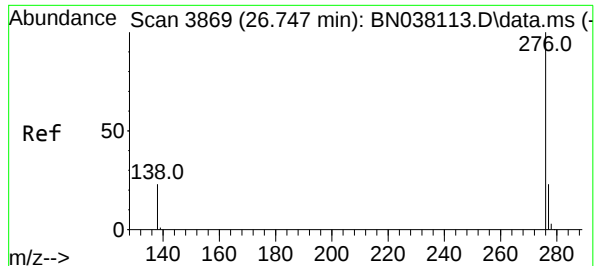
Ion Ratio Lower Upper

278 100

139 18.0 17.6 26.4

279 24.8 22.6 33.8





#41

Benzo(g,h,i)perylene

Concen: 55.663 ng

RT: 26.788 min Scan# 38

Delta R.T. 0.038 min

Lab File: BN038124.D

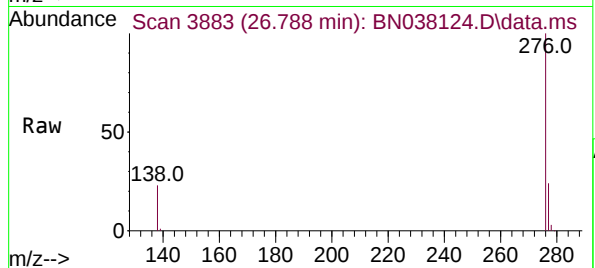
Acq: 30 Oct 2025 13:12

Instrument :

BNA_N

ClientSampleId :

38072-061125



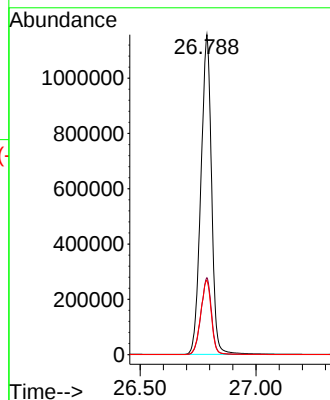
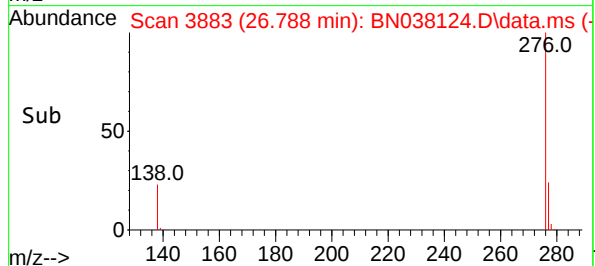
Tgt Ion:276 Resp: 3692408

Ion Ratio Lower Upper

276 100

277 24.0 19.7 29.5

138 23.3 20.2 30.4



Report of Analysis

Client: Alliance Technical Group, LLC - Newark
 Project: NJ Waste Water PT
 Client Sample ID: 38072-061125DL
 Lab Sample ID: Q3478-01DL
 Analytical Method: SW8270ESIM Level: LOW
 Sample Wt/Vol: 1000 mL Final Vol: 1000 uL
 Prep Method : Prep Date: 10/28/25

Date Collected: 10/27/25
 Date Received: 10/28/25
 SDG No.: Q3478
 Matrix: Water
 % Solid: 0
 Test: SVOCMS Group5

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	160	D	50	2.00	5.00	ug/L	10/30/25 16:08	PB170298
91-57-6	2-Methylnaphthalene	150	D	50	2.10	5.00	ug/L	10/30/25 16:08	PB170298
208-96-8	Acenaphthylene	45.4	D	50	1.90	5.00	ug/L	10/30/25 16:08	PB170298
83-32-9	Acenaphthene	31.4	D	50	1.90	5.00	ug/L	10/30/25 16:08	PB170298
86-73-7	Fluorene	150	D	50	1.90	5.00	ug/L	10/30/25 16:08	PB170298
85-01-8	Phenanthrene	160	D	50	1.70	5.00	ug/L	10/30/25 16:08	PB170298
120-12-7	Anthracene	65.2	D	50	1.80	5.00	ug/L	10/30/25 16:08	PB170298
206-44-0	Fluoranthene	98.3	D	50	1.70	5.00	ug/L	10/30/25 16:08	PB170298
129-00-0	Pyrene	120	D	50	1.60	5.00	ug/L	10/30/25 16:08	PB170298
56-55-3	Benzo(a)anthracene	100	D	50	1.80	5.00	ug/L	10/30/25 16:08	PB170298
218-01-9	Chrysene	53.5	D	50	1.90	5.00	ug/L	10/30/25 16:08	PB170298
205-99-2	Benzo(b)fluoranthene	100	D	50	1.80	5.00	ug/L	10/30/25 16:08	PB170298
207-08-9	Benzo(k)fluoranthene	160	D	50	2.50	5.00	ug/L	10/30/25 16:08	PB170298
50-32-8	Benzo(a)pyrene	44.6	D	50	2.10	5.00	ug/L	10/30/25 16:08	PB170298
193-39-5	Indeno(1,2,3-cd)pyrene	62.9	D	50	2.30	5.00	ug/L	10/30/25 16:08	PB170298
53-70-3	Dibenzo(a,h)anthracene	110	D	50	2.40	5.00	ug/L	10/30/25 16:08	PB170298
191-24-2	Benzo(g,h,i)perylene	51.3	D	50	2.10	5.00	ug/L	10/30/25 16:08	PB170298
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.35			20 - 139	88%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.35			54 - 157	88%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.60			27 - 154	150%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.65	*		30 - 155	162%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.45			54 - 175	113%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	8060							
1146-65-2	Naphthalene-d8	24700							
15067-26-2	Acenaphthene-d10	13800							
1517-22-2	Phenanthrene-d10	26700							
1719-03-5	Chrysene-d12	22600							
1520-96-3	Perylene-d12	17200							

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\BN103025\
 Data File : BN038125.D
 Acq On : 30 Oct 2025 16:08
 Operator : RC/JU
 Sample : Q3478-01DL 50X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 38072-061125DL

Quant Time: Oct 30 16:36:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration

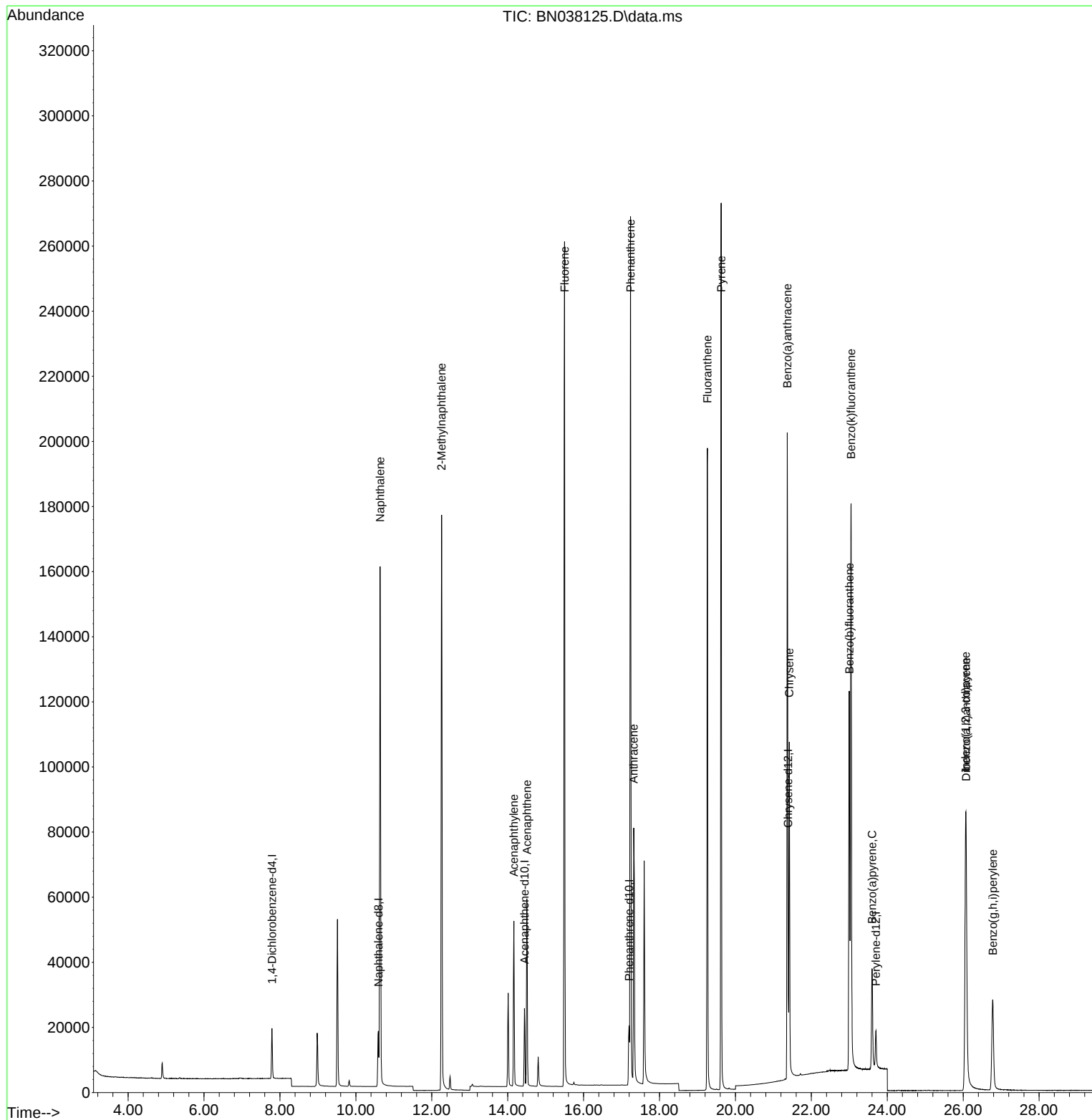
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	8715	0.400	ng	0.01
7) Naphthalene-d8	10.594	136	27253	0.400	ng	0.02
13) Acenaphthene-d10	14.441	164	15186	0.400	ng	0.01
19) Phenanthrene-d10	17.198	188	28712	0.400	ng	# 0.01
29) Chrysene-d12	21.384	240	23533	0.400	ng	0.00
35) Perylene-d12	23.700	264	17265	0.400	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.355	112	212	0.010	ng	0.00
5) Phenol-d6	6.952	99	224	0.009	ng	0.01
8) Nitrobenzene-d5	8.939	82	272	0.012	ng	0.01
11) 2-Methylnaphthalene-d10	12.187	152	309	0.008	ng	0.01
14) 2,4,6-Tribromophenol	15.944	330	36	0.006	ng	0.01
15) 2-Fluorobiphenyl	13.073	172	699	0.011	ng	0.02
27) Fluoranthene-d10	19.229	212	578	0.008	ng	0.00
31) Terphenyl-d14	19.833	244	474	0.009	ng	0.01
Target Compounds						
9) Naphthalene	10.637	128	264593	3.525	ng	Qvalue 99
12) 2-Methylnaphthalene	12.258	142	167032	3.337	ng	99
16) Acenaphthylene	14.163	152	69496	1.011	ng	100
17) Acenaphthene	14.505	154	33784	0.702	ng	98
18) Fluorene	15.499	166	210663	3.341	ng	99
25) Phenanthrene	17.235	178	333263	3.656	ng	100
26) Anthracene	17.322	178	118839	1.490	ng	99
28) Fluoranthene	19.262	202	228078	2.239	ng	99
30) Pyrene	19.624	202	295623	2.783	ng	100
32) Benzo(a)anthracene	21.366	228	198039	2.359	ng	99
33) Chrysene	21.420	228	108103	1.186	ng	100
36) Indeno(1,2,3-cd)pyrene	26.066	276	100932	1.423	ng	95
37) Benzo(b)fluoranthene	23.002	252	171745	2.327	ng	# 90
38) Benzo(k)fluoranthene	23.046	252	274829	3.699	ng	# 89
39) Benzo(a)pyrene	23.598	252	59532	1.008	ng	# 88
40) Dibenzo(a,h)anthracene	26.077	278	132156	2.421	ng	92
41) Benzo(g,h,i)perylene	26.779	276	71261	1.143	ng	98

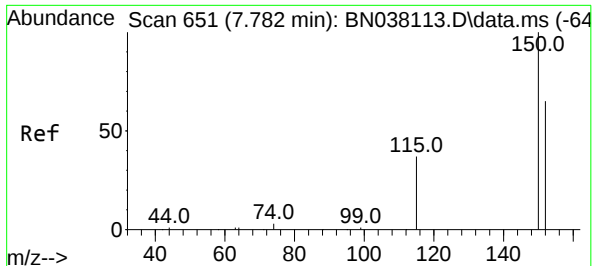
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
Data File : BN038125.D
Acq On : 30 Oct 2025 16:08
Operator : RC/JU
Sample : Q3478-01DL 50X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-061125DL

Quant Time: Oct 30 16:36:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration

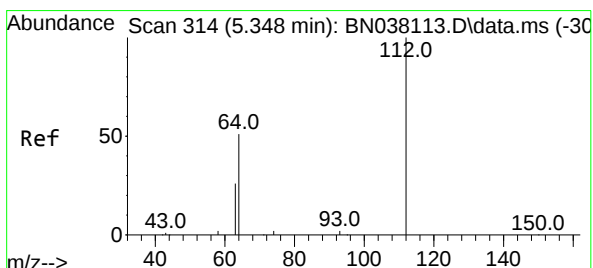
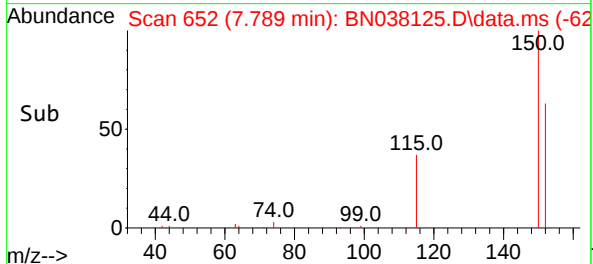
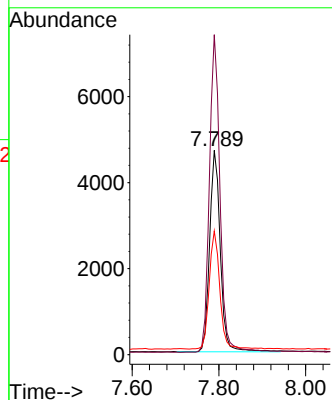
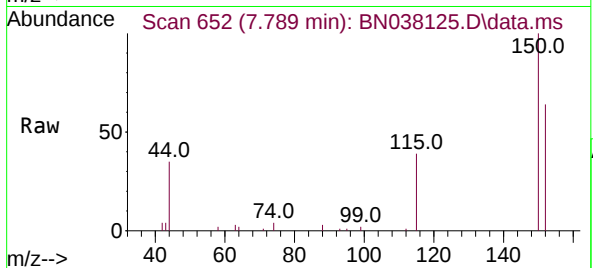




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.014 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

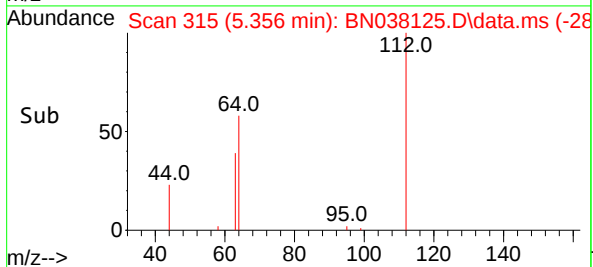
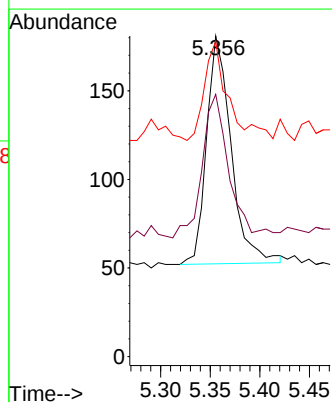
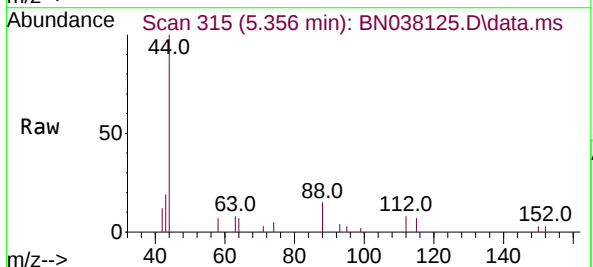
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

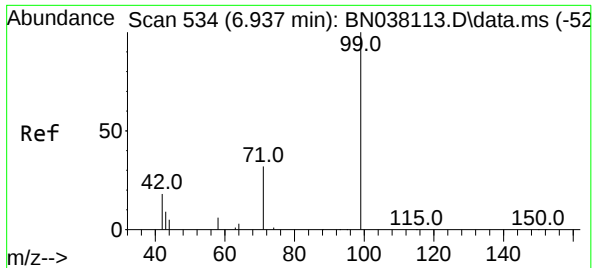
Tgt Ion:152 Resp: 8715
Ion Ratio Lower Upper
152 100
150 156.2 122.3 183.5
115 61.0 47.4 71.0



#4
2-Fluorophenol
Concen: 0.010 ng
RT: 5.355 min Scan# 315
Delta R.T. 0.007 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:112 Resp: 212
Ion Ratio Lower Upper
112 100
64 63.2 45.4 68.0
63 48.1 23.2 34.8#

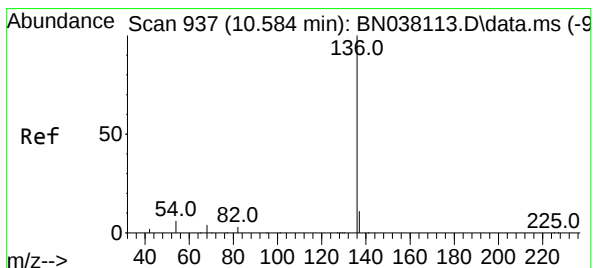
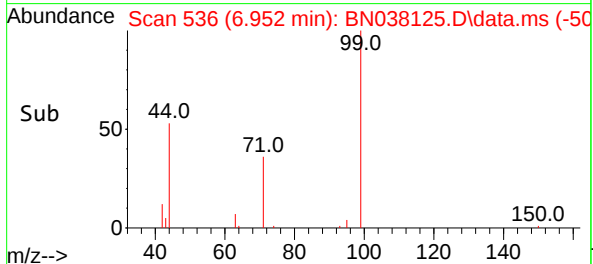
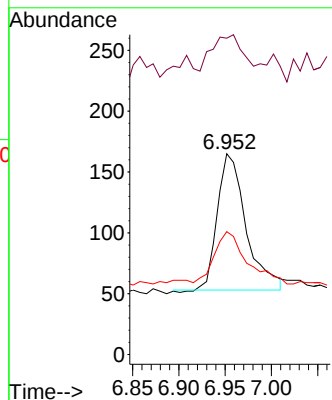
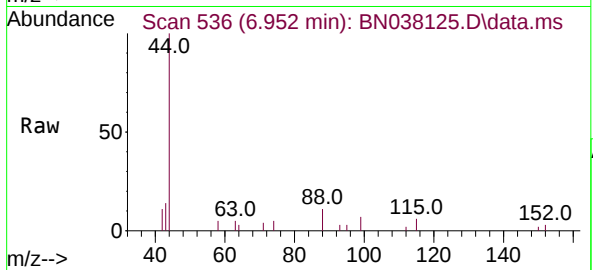




#5
Phenol-d6
Concen: 0.009 ng
RT: 6.952 min Scan# 534
Delta R.T. 0.014 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

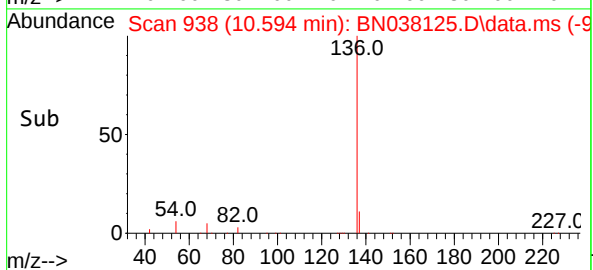
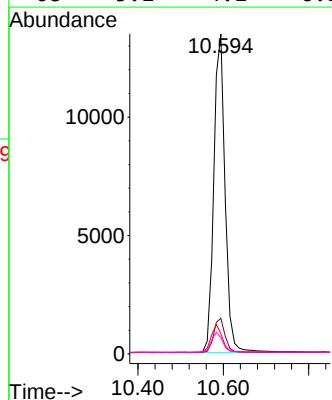
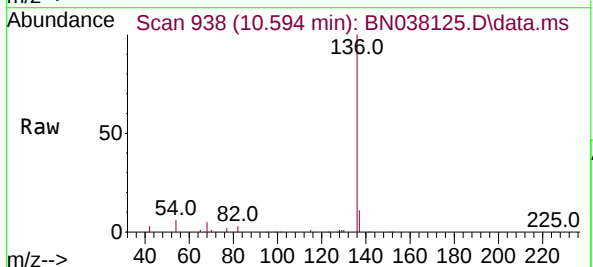
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

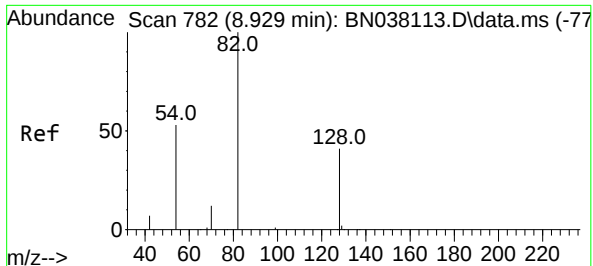
Tgt Ion: 99 Resp: 224
Ion Ratio Lower Upper
99 100
42 34.8 16.6 24.8#
71 42.0 25.4 38.2#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.594 min Scan# 938
Delta R.T. 0.021 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion: 136 Resp: 27253
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.4
54 6.3 5.2 7.8
68 5.1 4.1 6.1

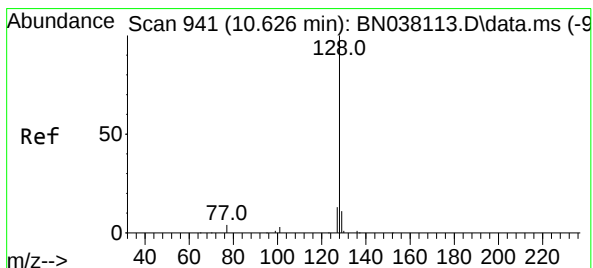
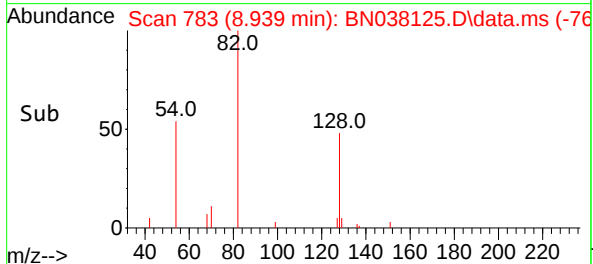
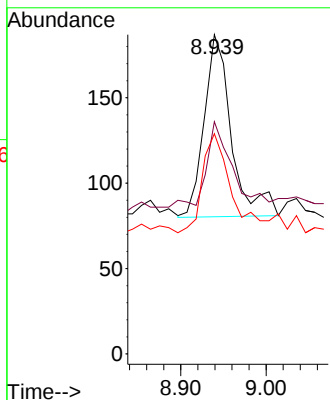
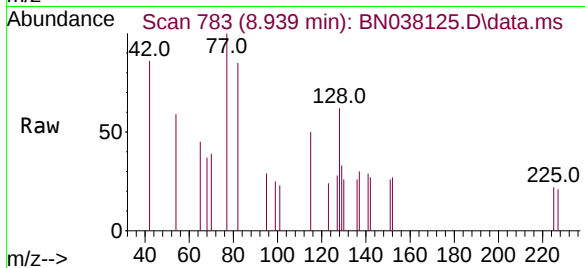




#8
Nitrobenzene-d5
Concen: 0.012 ng
RT: 8.939 min Scan# 782
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

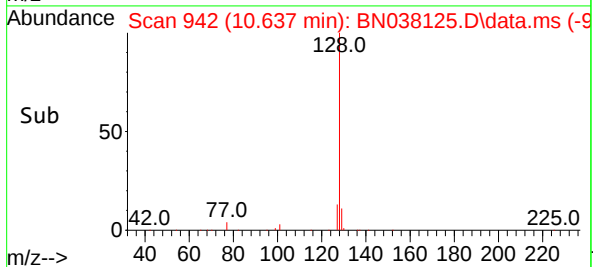
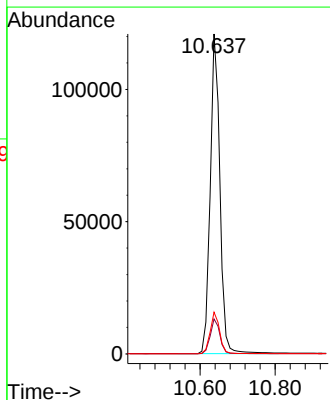
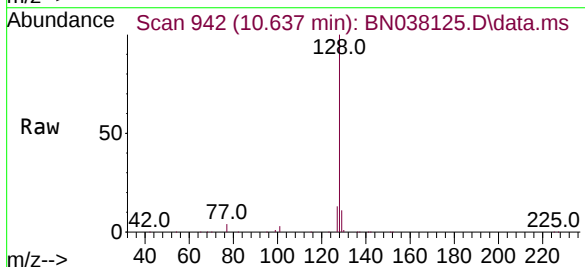
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

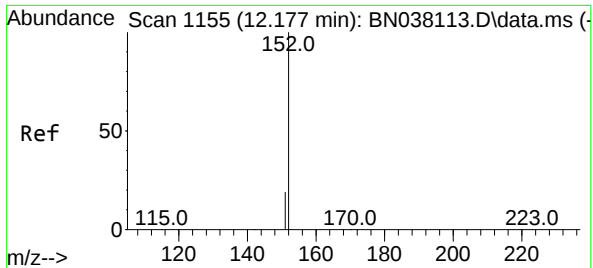
Tgt Ion:	82	Resp:	272
Ion	Ratio	Lower	Upper
82	100		
128	64.7	34.1	51.1#
54	65.6	43.5	65.3#



#9
Naphthalene
Concen: 3.525 ng
RT: 10.637 min Scan# 942
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:	128	Resp:	264593
Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	13.0	10.5	15.7

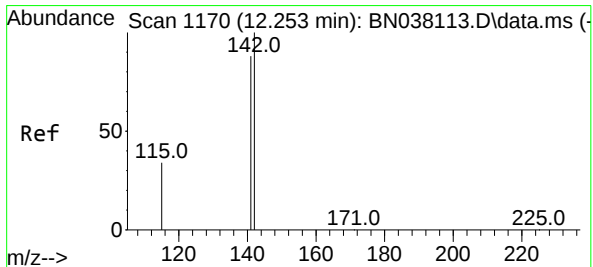
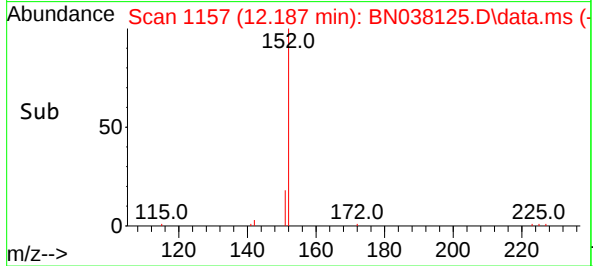
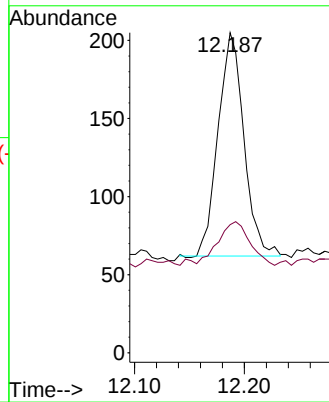
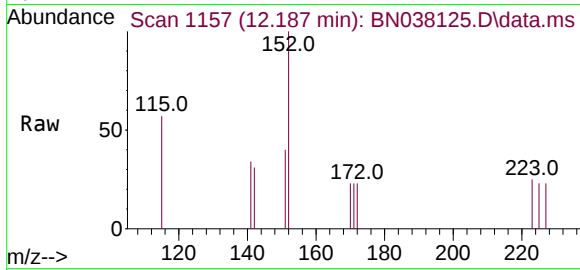




#11
2-Methylnaphthalene-d10
Concen: 0.008 ng
RT: 12.187 min Scan# 1155
Delta R.T. 0.010 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

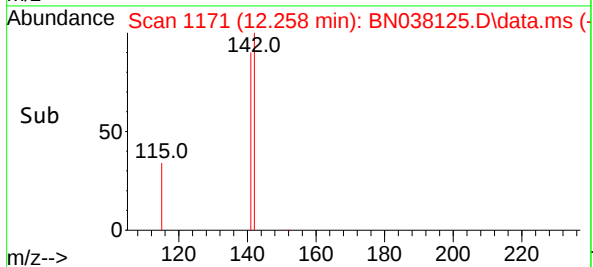
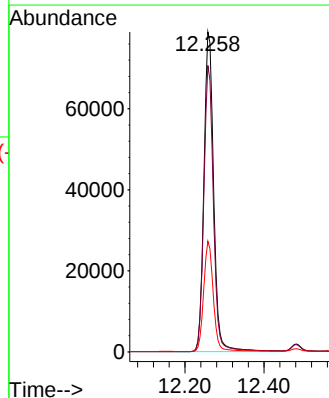
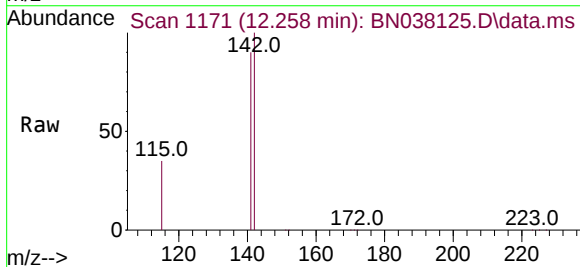
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

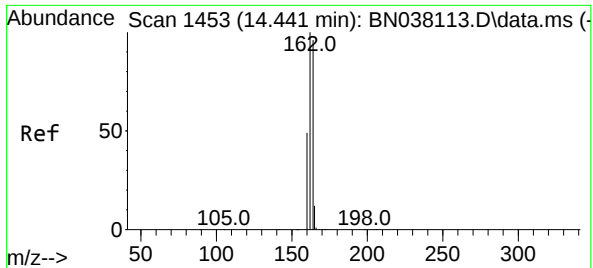
Tgt Ion:152 Resp: 309
Ion Ratio Lower Upper
152 100
151 23.3 16.8 25.2



#12
2-Methylnaphthalene
Concen: 3.337 ng
RT: 12.258 min Scan# 1171
Delta R.T. 0.010 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:142 Resp: 167032
Ion Ratio Lower Upper
142 100
141 88.8 70.3 105.5
115 34.9 27.8 41.6

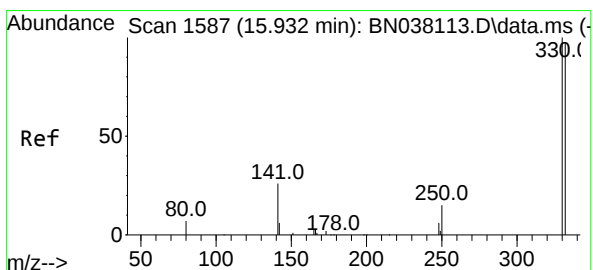
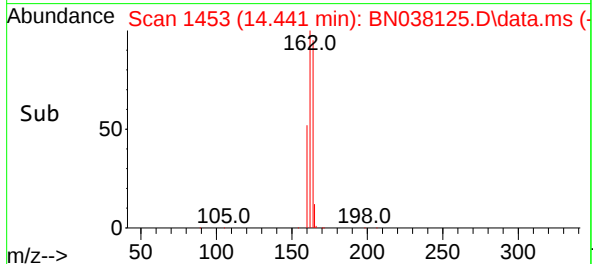
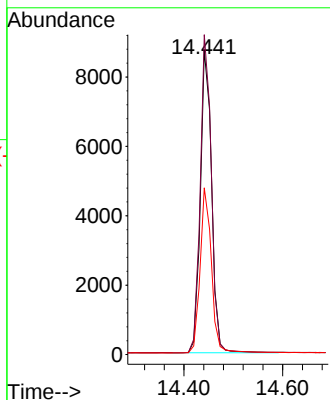
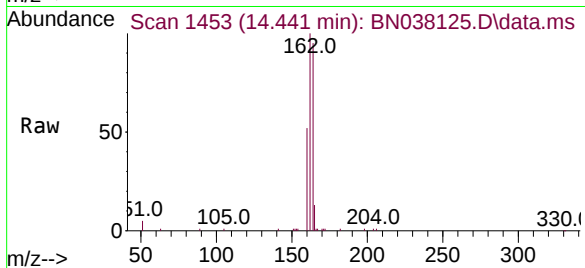




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

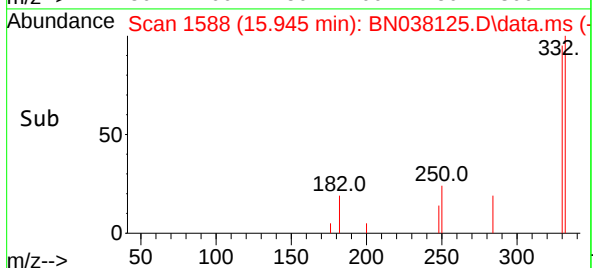
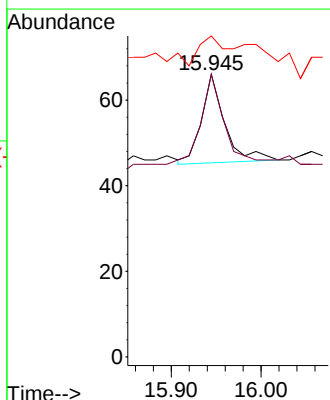
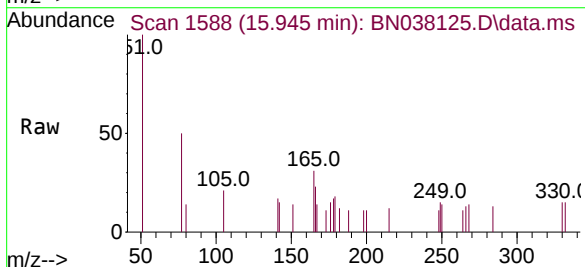
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

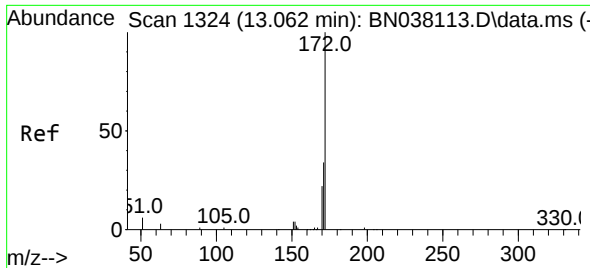
Tgt Ion:164 Resp: 15186
Ion Ratio Lower Upper
164 100
162 107.1 83.0 124.4
160 53.7 40.7 61.1



#14
2,4,6-Tribromophenol
Concen: 0.006 ng
RT: 15.944 min Scan# 1588
Delta R.T. 0.012 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:330 Resp: 36
Ion Ratio Lower Upper
330 100
332 100.0 76.6 114.8
141 61.1 34.1 51.1#

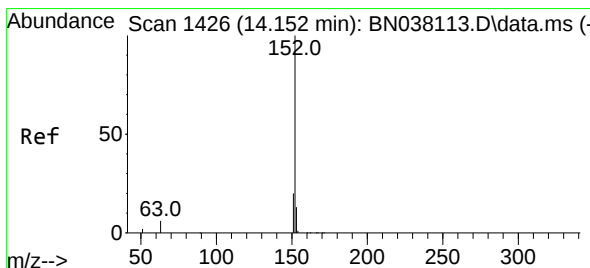
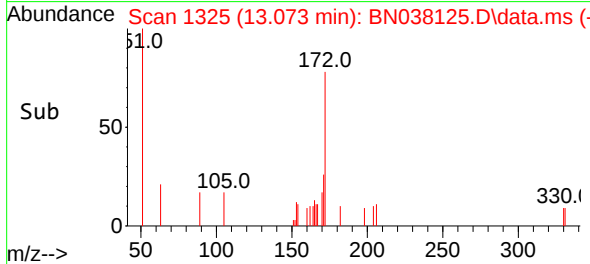
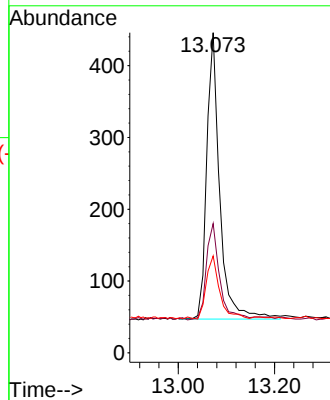
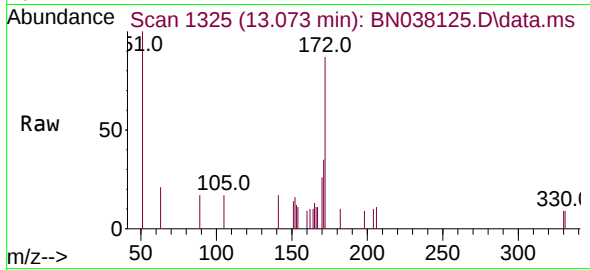




#15
2-Fluorobiphenyl
Concen: 0.011 ng
RT: 13.073 min Scan# 1324
Delta R.T. 0.021 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

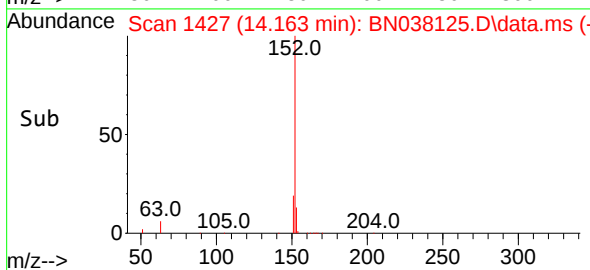
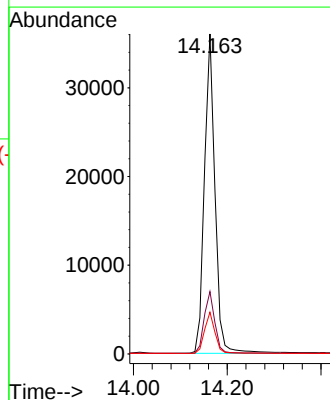
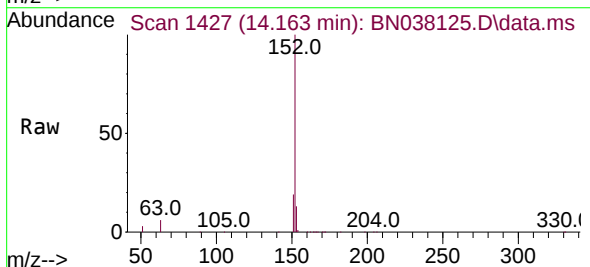
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

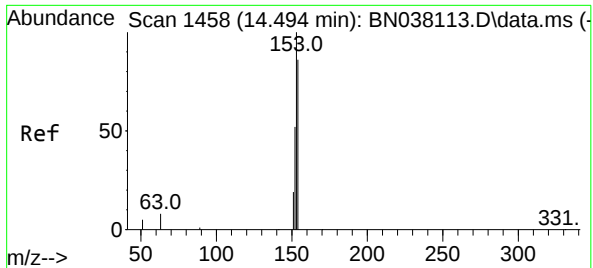
Tgt Ion	Ratio	Lower	Upper
172	100		
171	41.3	27.8	41.6
170	29.7	18.1	27.1



#16
Acenaphthylene
Concen: 1.011 ng
RT: 14.163 min Scan# 1427
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.1	10.2	15.2

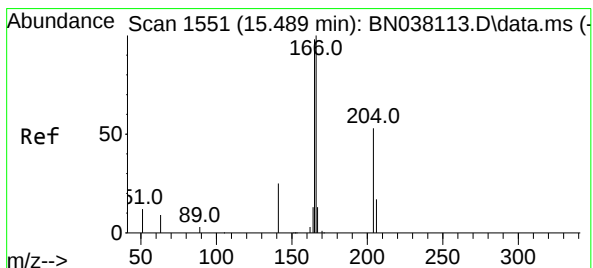
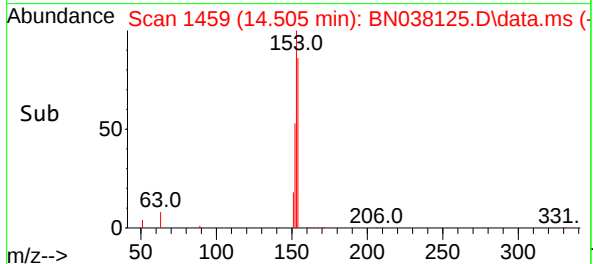
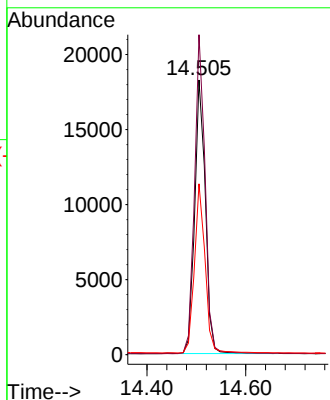
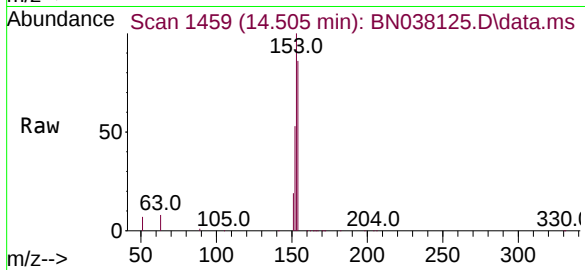




#17
Acenaphthene
Concen: 0.702 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.011 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

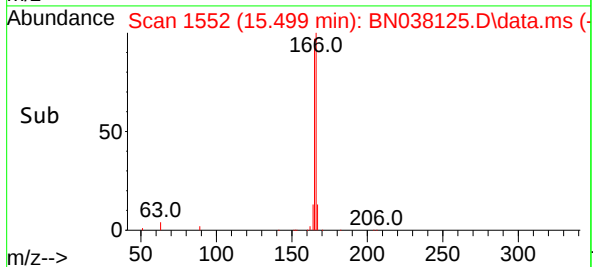
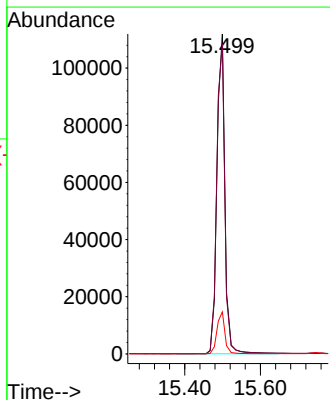
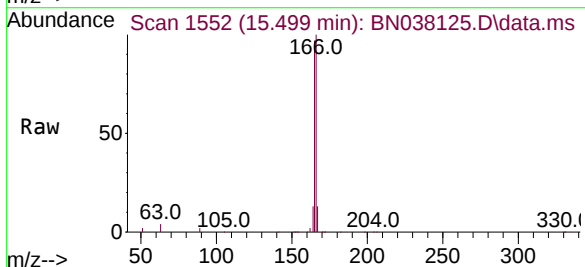
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

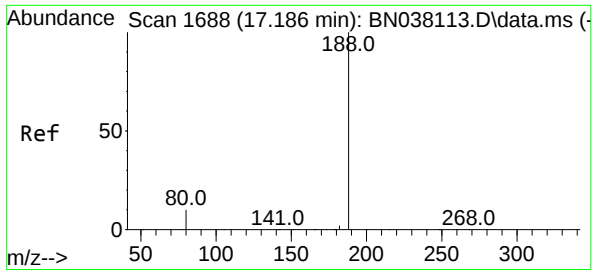
Tgt Ion:154 Resp: 33784
Ion Ratio Lower Upper
154 100
153 114.1 90.0 135.0
152 60.7 47.3 70.9



#18
Fluorene
Concen: 3.341 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.010 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:166 Resp: 210663
Ion Ratio Lower Upper
166 100
165 100.0 79.0 118.4
167 13.2 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.198 min Scan# 1688

Delta R.T. 0.012 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

38072-061125DL

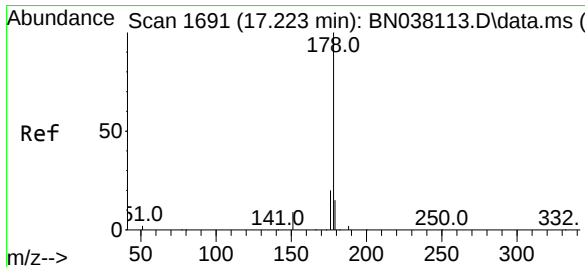
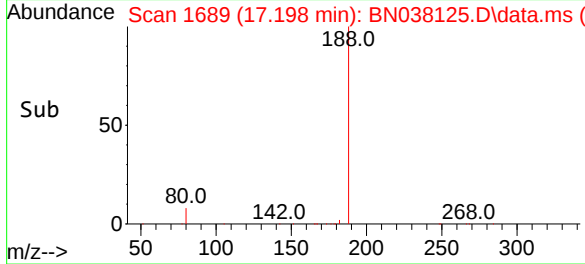
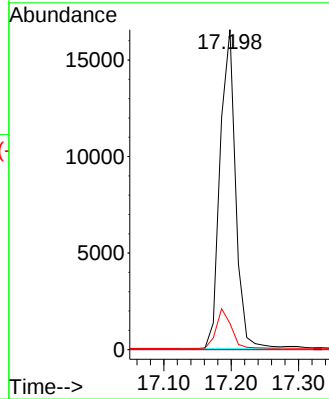
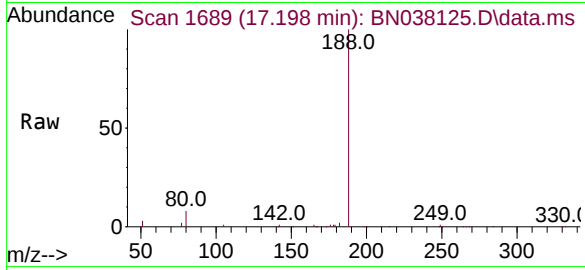
Tgt Ion:188 Resp: 28712

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 8.6 13.0#



#25

Phenanthrene

Concen: 3.656 ng

RT: 17.235 min Scan# 1692

Delta R.T. 0.012 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

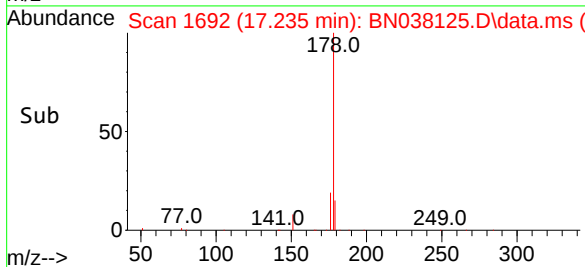
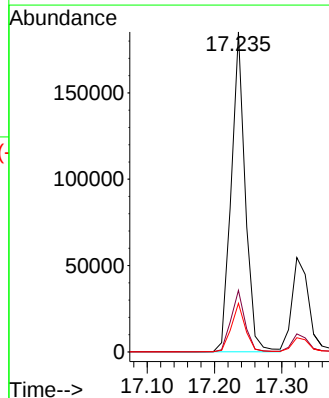
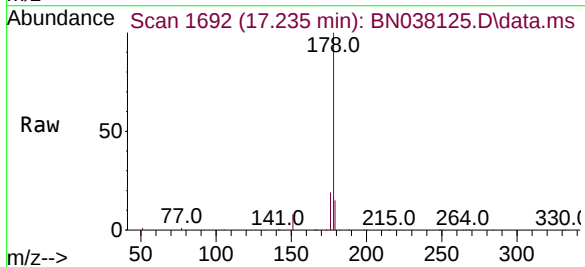
Tgt Ion:178 Resp: 333263

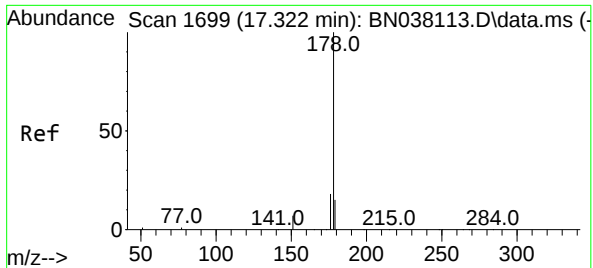
Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.2 12.2 18.4

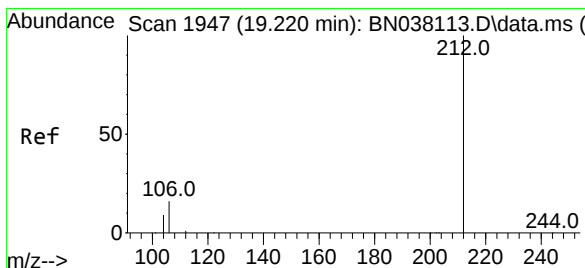
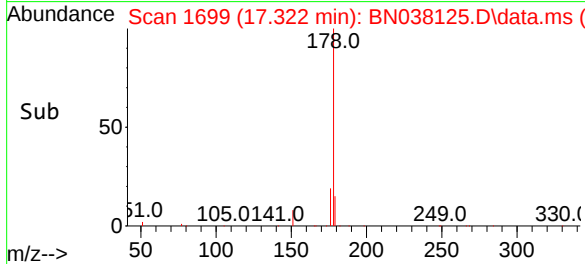
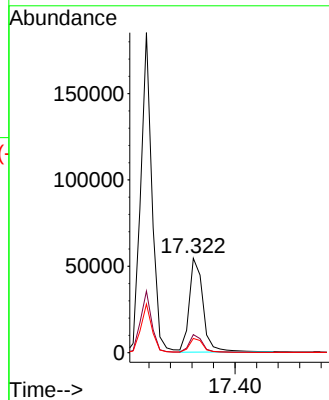
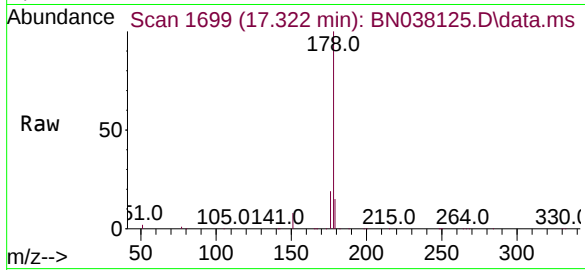




#26
 Anthracene
 Concen: 1.490 ng
 RT: 17.322 min Scan# 1699
 Delta R.T. -0.000 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

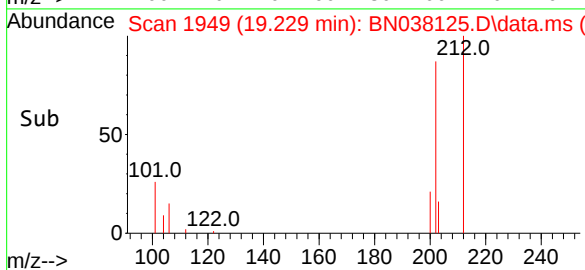
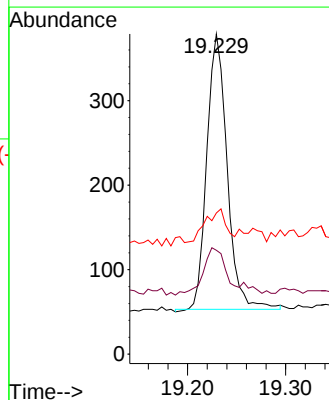
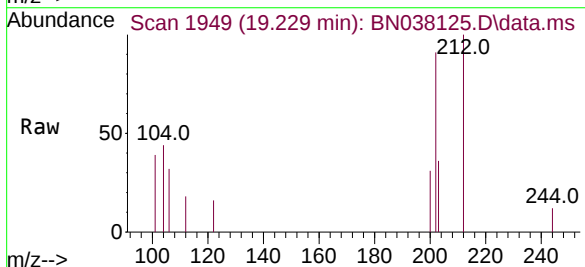
Instrument :
 BNA_N
 ClientSampleId :
 38072-061125DL

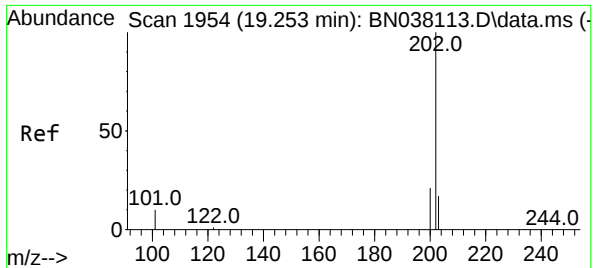
Tgt Ion:178 Resp: 118839
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.9 22.3
 179 15.2 11.8 17.8



#27
 Fluoranthene-d10
 Concen: 0.008 ng
 RT: 19.229 min Scan# 1949
 Delta R.T. 0.009 min
 Lab File: BN038125.D
 Acq: 30 Oct 2025 16:08

Tgt Ion:212 Resp: 578
 Ion Ratio Lower Upper
 212 100
 106 18.7 12.6 19.0
 104 12.8 7.1 10.7#

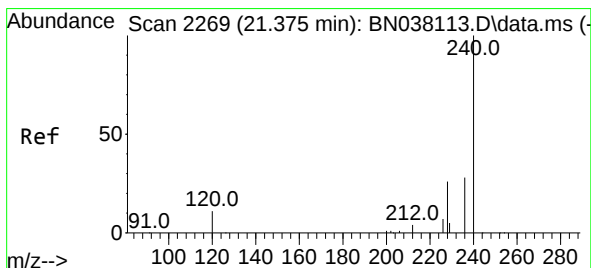
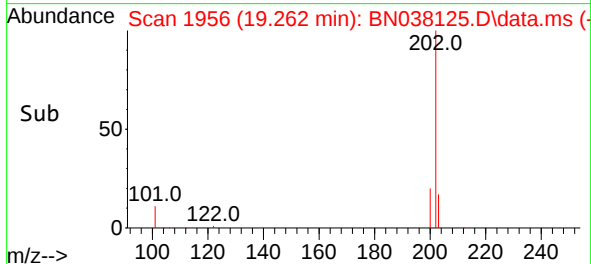
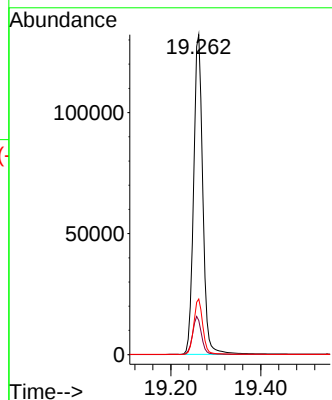
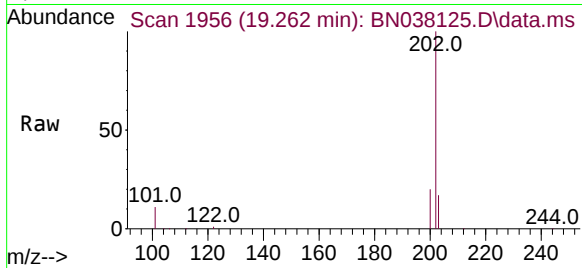




#28
Fluoranthene
Concen: 2.239 ng
RT: 19.262 min Scan# 19
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

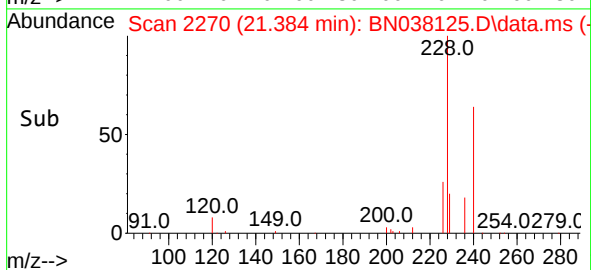
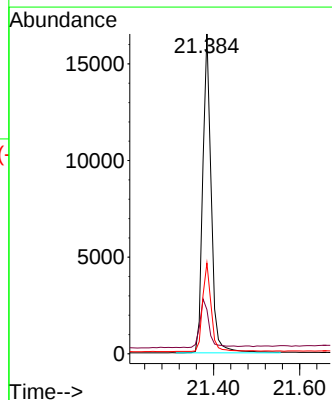
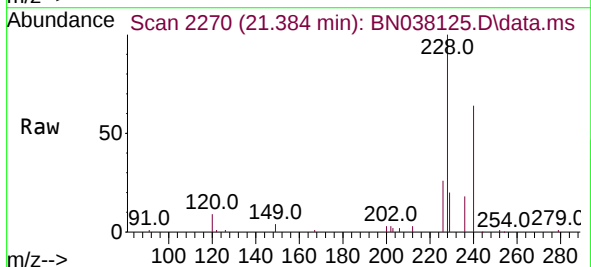
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

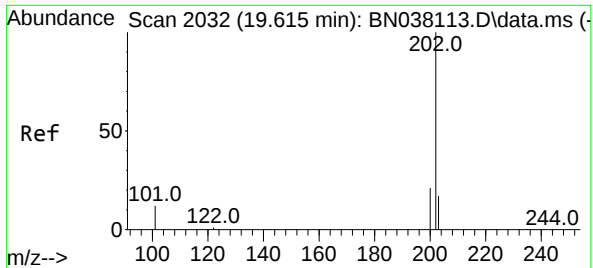
Tgt Ion:202 Resp: 228078
Ion Ratio Lower Upper
202 100
101 11.3 9.4 14.2
203 17.1 13.4 20.2



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:240 Resp: 23533
Ion Ratio Lower Upper
240 100
120 13.5 10.7 16.1
236 28.6 23.1 34.7

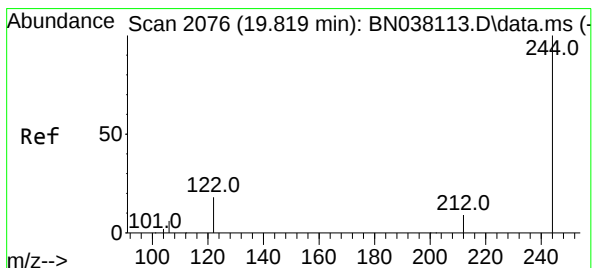
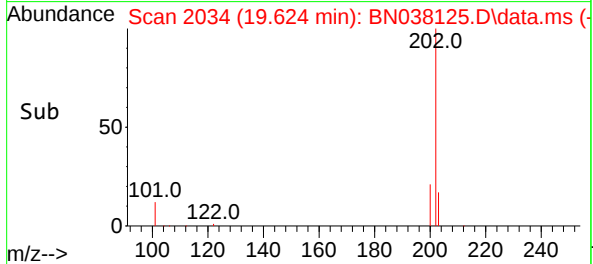
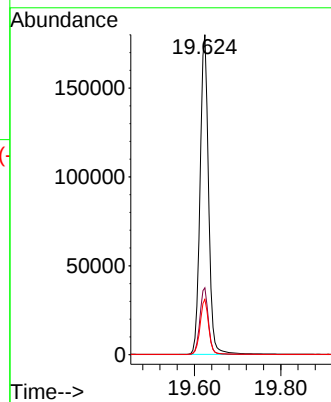
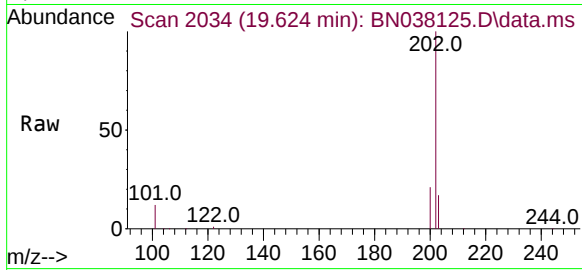




#30
Pyrene
Concen: 2.783 ng
RT: 19.624 min Scan# 2032
Delta R.T. 0.014 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

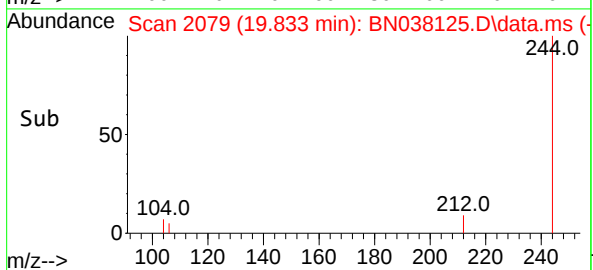
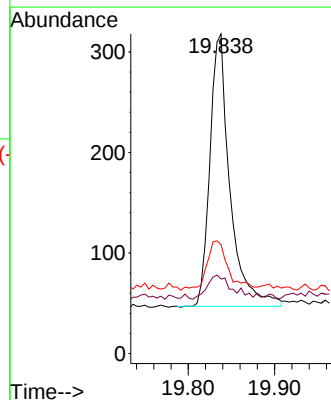
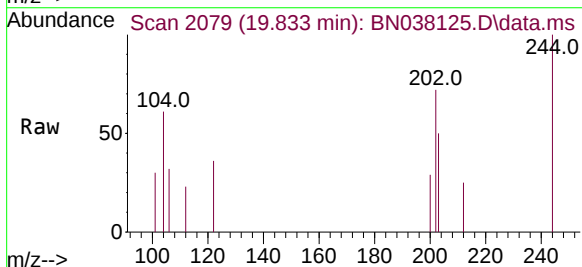
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

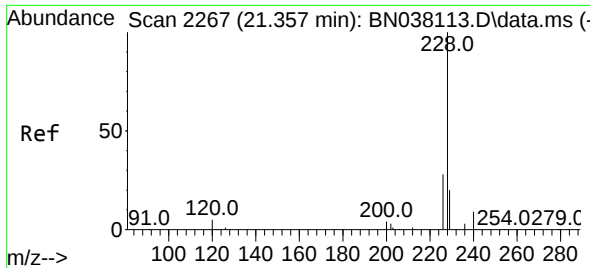
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.5	14.2	21.2



#31
Terphenyl-d14
Concen: 0.009 ng
RT: 19.833 min Scan# 2079
Delta R.T. 0.014 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion	Ratio	Lower	Upper
244	100		
212	23.9	7.8	11.6#
122	33.8	15.2	22.8#

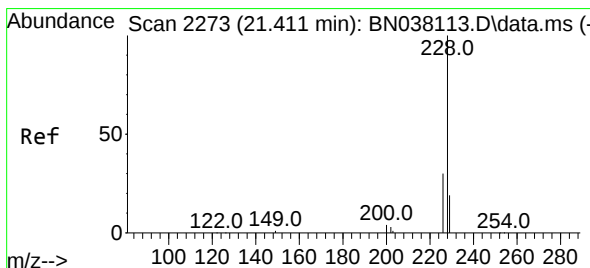
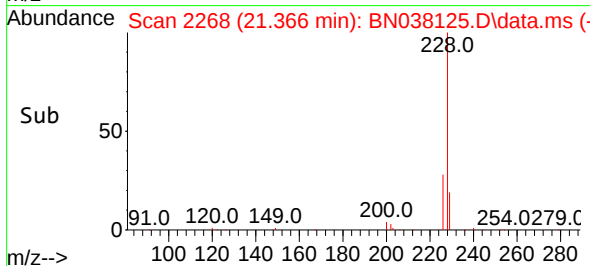
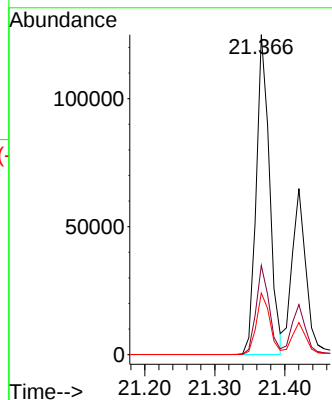
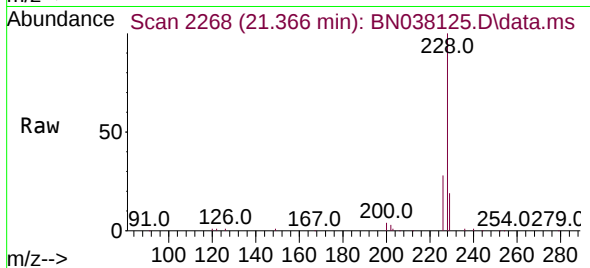




#32
Benzo(a)anthracene
Concen: 2.359 ng
RT: 21.366 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

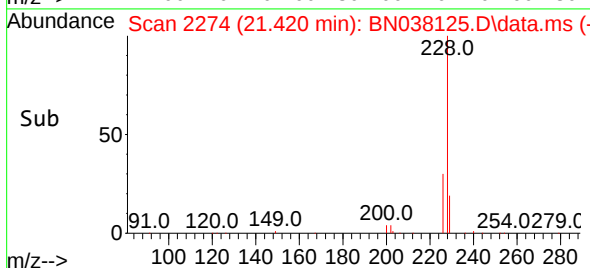
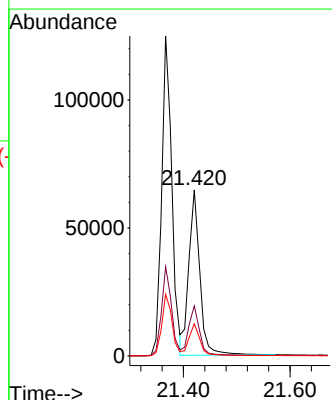
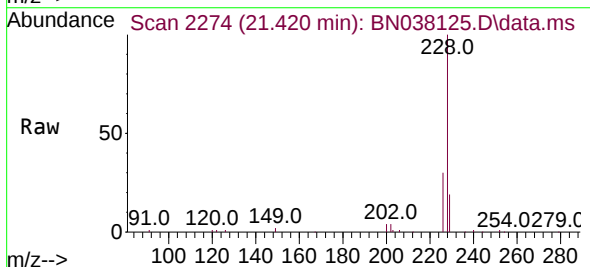
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

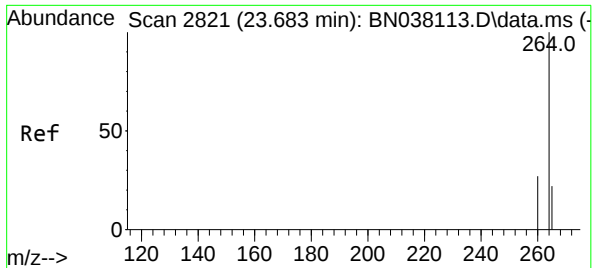
Tgt Ion:228 Resp: 198039
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.4
229 19.2 15.8 23.8



#33
Chrysene
Concen: 1.186 ng
RT: 21.420 min Scan# 2274
Delta R.T. 0.009 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:228 Resp: 108103
Ion Ratio Lower Upper
228 100
226 30.4 24.3 36.5
229 19.5 15.7 23.5

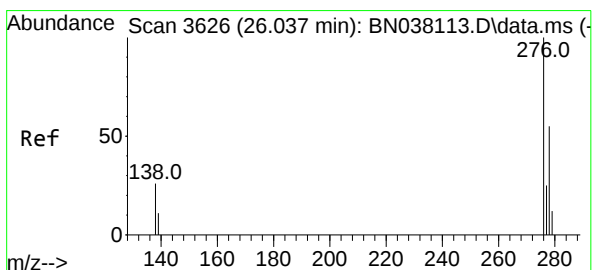
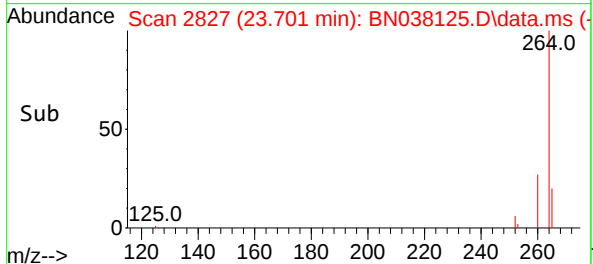
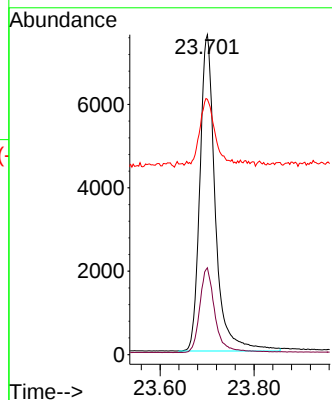
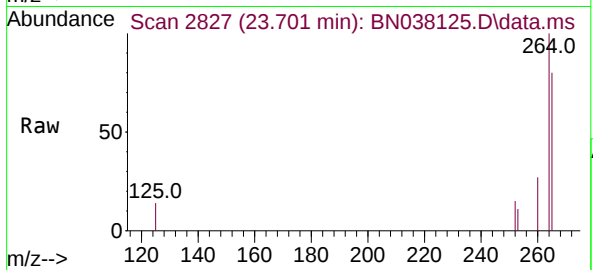




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.700 min Scan# 2821
Delta R.T. 0.020 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

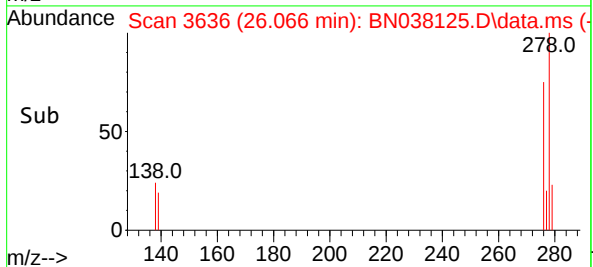
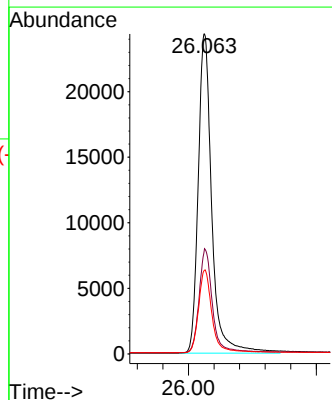
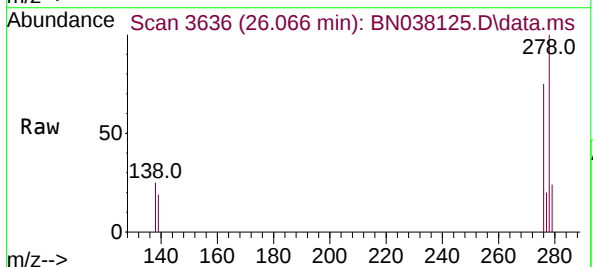
Instrument :
BNA_N
ClientSampleId :
38072-061125DL

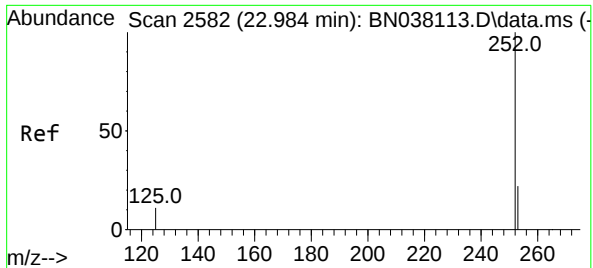
Tgt Ion:264 Resp: 17265
Ion Ratio Lower Upper
264 100
260 26.5 21.8 32.8
265 82.5 68.6 102.8



#36
Indeno(1,2,3-cd)pyrene
Concen: 1.423 ng
RT: 26.066 min Scan# 3636
Delta R.T. 0.032 min
Lab File: BN038125.D
Acq: 30 Oct 2025 16:08

Tgt Ion:276 Resp: 100932
Ion Ratio Lower Upper
276 100
138 30.6 21.4 32.0
277 25.3 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 2.327 ng

RT: 23.002 min Scan# 21

Delta R.T. 0.020 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

38072-061125DL

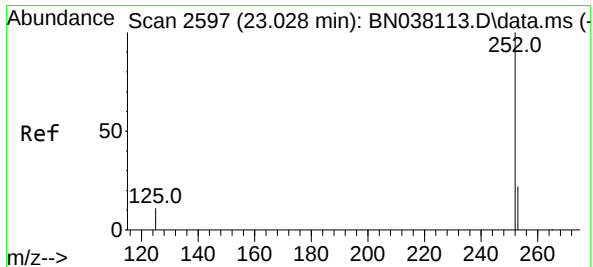
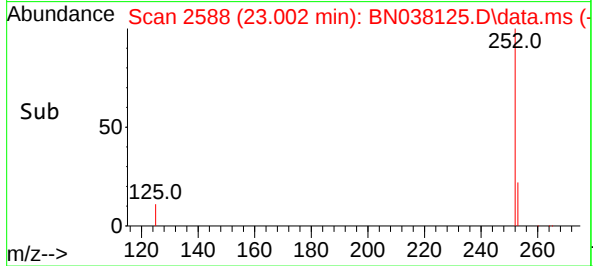
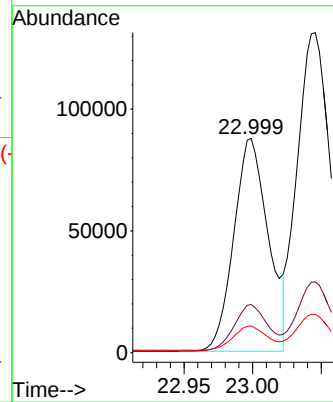
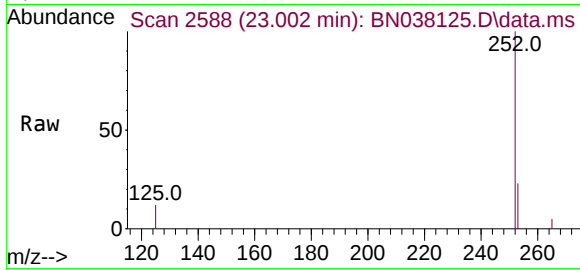
Tgt Ion:252 Resp: 171745

Ion Ratio Lower Upper

252 100

253 22.4 20.9 31.3

125 11.9 14.1 21.1#



#38

Benzo(k)fluoranthene

Concen: 3.699 ng

RT: 23.046 min Scan# 2603

Delta R.T. 0.017 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

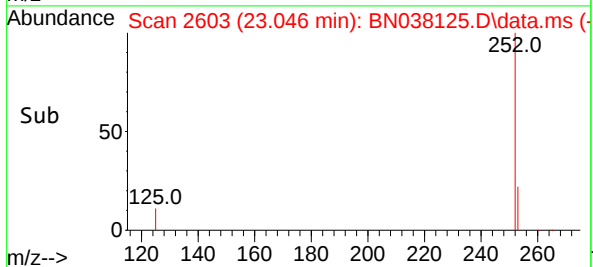
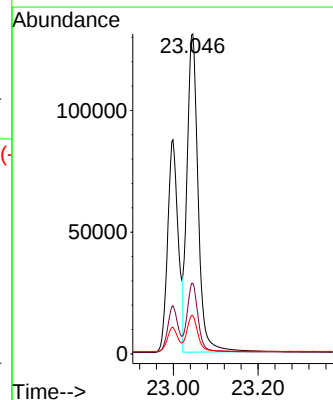
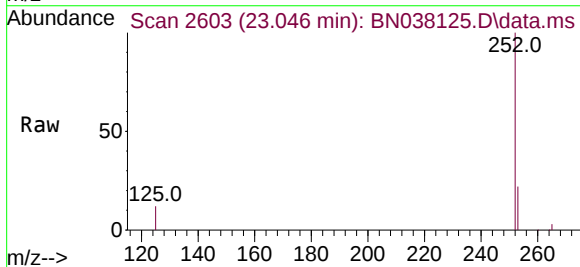
Tgt Ion:252 Resp: 274829

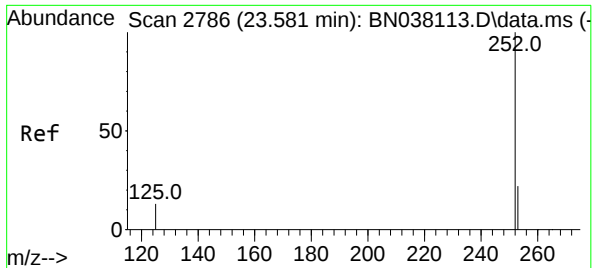
Ion Ratio Lower Upper

252 100

253 21.9 21.2 31.8

125 11.7 14.6 22.0#





#39

Benzo(a)pyrene

Concen: 1.008 ng

RT: 23.598 min Scan# 21

Delta R.T. 0.020 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

38072-061125DL

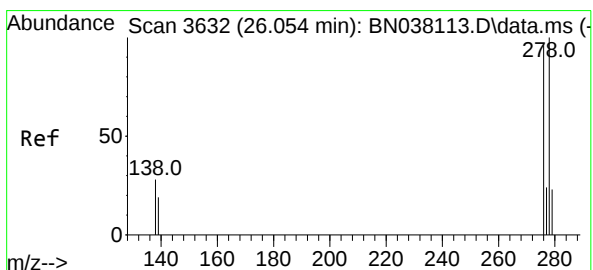
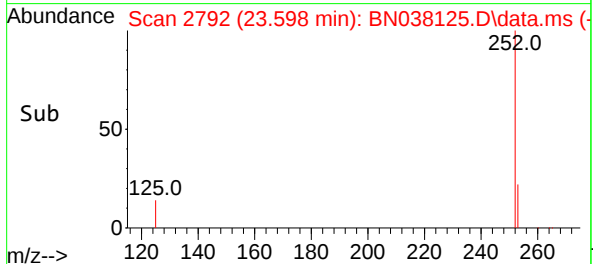
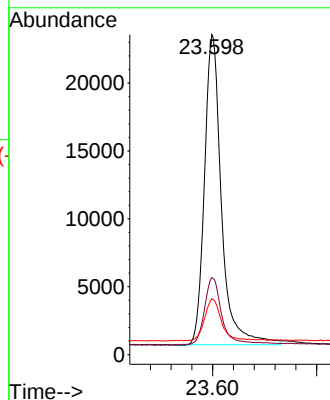
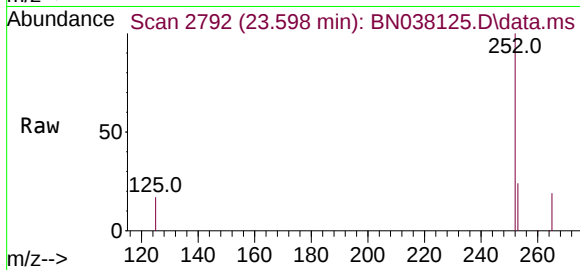
Tgt Ion:252 Resp: 59532

Ion Ratio Lower Upper

252 100

253 23.7 23.1 34.7

125 15.9 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 2.421 ng

RT: 26.077 min Scan# 3640

Delta R.T. 0.029 min

Lab File: BN038125.D

Acq: 30 Oct 2025 16:08

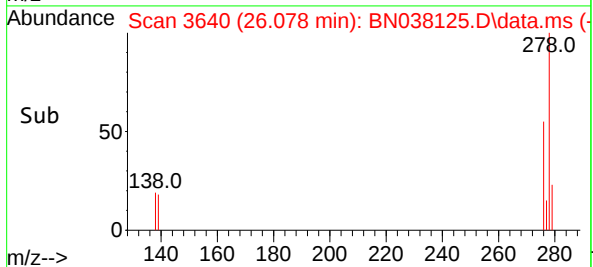
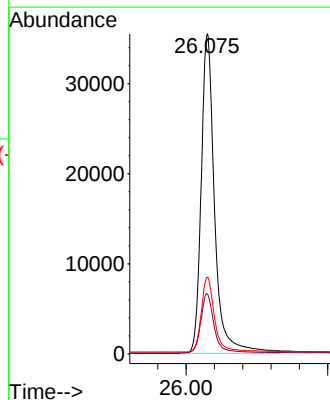
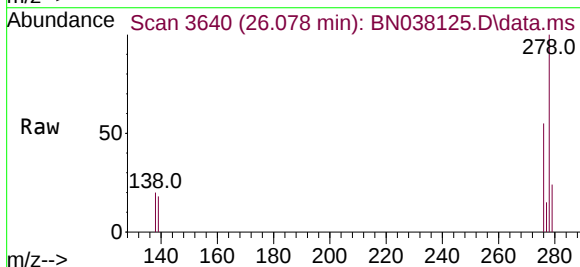
Tgt Ion:278 Resp: 132156

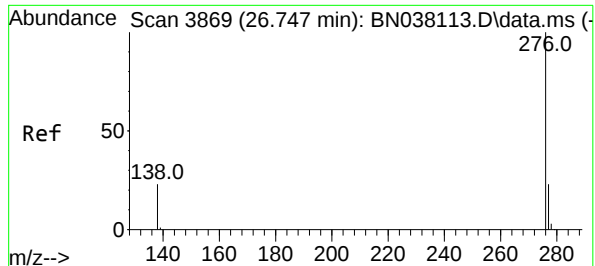
Ion Ratio Lower Upper

278 100

139 18.0 17.6 26.4

279 23.8 22.6 33.8





#41

Benzo(g,h,i)perylene

Concen: 1.143 ng

RT: 26.779 min Scan# 38

Delta R.T. 0.029 min

Lab File: BN038125.D

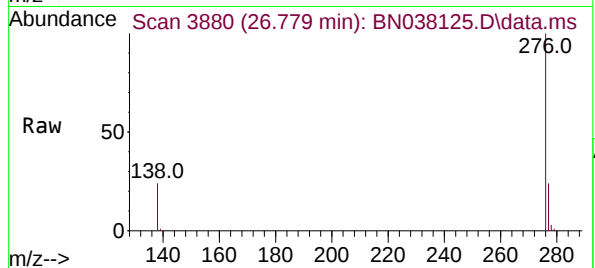
Acq: 30 Oct 2025 16:08

Instrument :

BNA_N

ClientSampleId :

38072-061125DL



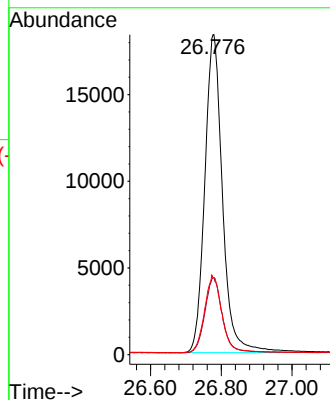
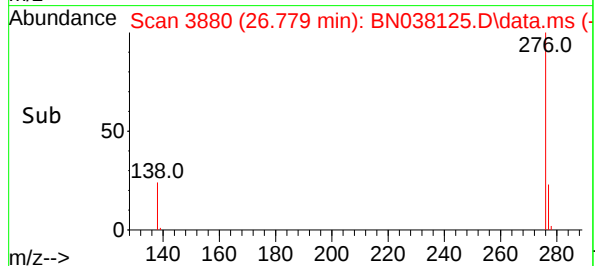
Tgt Ion:276 Resp: 71261

Ion Ratio Lower Upper

276 100

277 23.8 19.7 29.5

138 24.3 20.2 30.4





CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN102825.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Oct 29 13:09:46 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN038111.D 0.2 =BN038112.D 0.4 =BN038113.D 0.8 =BN038114.D 1.6 =BN038115.D 3.2 =BN038116.D 5 =BN038117.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.446	0.424	0.405	0.416	0.400	0.389	0.413	4.87	
3)	n-Nitrosodimet...	0.528	0.537	0.527	0.547	0.534	0.518	0.532	1.85	
4) S	2-Fluorophenol	1.066	0.973	0.954	0.907	0.918	0.895	0.882	0.942	6.73
5) S	Phenol-d6	1.266	1.134	1.134	1.097	1.131	1.135	1.137	1.148	4.71
6)	bis(2-Chloroet...	1.164	1.140	1.126	1.122	1.148	1.114	1.079	1.128	2.42
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.403	0.312	0.313	0.301	0.316	0.307	0.307	0.323	11.11
9)	Naphthalene	1.139	1.097	1.081	1.080	1.125	1.107	1.084	1.102	2.08
10)	Hexachlorobuta...	0.198	0.187	0.187	0.182	0.188	0.183	0.177	0.186	3.49
11) SURR2	Methylnaphth...	0.581	0.569	0.551	0.549	0.586	0.584	0.579	0.571	2.69
12)	2-Methylnaphth...	0.765	0.712	0.709	0.713	0.757	0.749	0.738	0.735	3.22
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.156	0.151	0.149	0.152	0.171	0.182	0.194	0.165	10.70
15) S	2-Fluorobiphenyl	1.794	1.649	1.577	1.570	1.615	1.514	1.495	1.602	6.24
16)	Acenaphthylene	1.768	1.728	1.711	1.764	1.891	1.912	1.908	1.811	4.88
17)	Acenaphthene	1.260	1.242	1.211	1.234	1.318	1.310	1.297	1.267	3.25
18)	Fluorene	1.549	1.618	1.596	1.635	1.768	1.731	1.729	1.661	4.93
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.041	0.045	0.051	0.064	0.073		0.055	24.55	
21)	4-Bromophenyl-...	0.260	0.251	0.250	0.256	0.274	0.271	0.275	0.262	4.06
22)	Hexachlorobenzene	0.304	0.292	0.298	0.293	0.306	0.297	0.298	0.298	1.76
23)	Atrazine	0.190	0.176	0.176	0.179	0.203	0.209	0.211	0.192	8.19
24)	Pentachlorophenol	0.112	0.108	0.113	0.132	0.146	0.159	0.128	16.16	
25)	Phenanthrene	1.281	1.231	1.224	1.236	1.327	1.293	1.298	1.270	3.12
26)	Anthracene	1.076	1.029	1.047	1.057	1.182	1.183	1.202	1.111	6.72
27) SURR	Fluoranthene-d10	1.040	0.969	0.957	0.981	1.050	1.055	1.009	1.009	4.01
28)	Fluoranthene	1.448	1.349	1.345	1.394	1.492	1.491	1.414	1.419	4.30
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.834	1.853	1.842	1.664	1.835	1.766	1.846	1.806	3.82
31) S	Terphenyl-d14	0.878	0.881	0.872	0.807	0.892	0.862	0.891	0.869	3.37
32)	Benzo(a)anthra...	1.491	1.379	1.358	1.363	1.469	1.474	1.456	1.427	4.06
33)	Chrysene	1.623	1.586	1.543	1.523	1.558	1.518	1.490	1.549	2.91
34)	Bis(2-ethylhex...	0.910	0.722	0.700	0.721	0.754	0.703	0.752	10.60	
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN102825.M

36)	Indeno(1,2,3-c...	1.521	1.512	1.604	1.620	1.730	1.739	1.778	1.643	6.53
37)	Benzo(b)fluora...	1.603	1.543	1.630	1.729	1.806	1.839	1.822	1.710	6.94
38)	Benzo(k)fluora...	1.652	1.590	1.619	1.669	1.831	1.835	1.855	1.721	6.62
39) C	Benzo(a)pyrene	1.344	1.276	1.316	1.314	1.420	1.451	1.462	1.369	5.44
40)	Dibenzo(a,h)an...	1.149	1.150	1.196	1.240	1.352	1.363	1.402	1.265	8.42
41)	Benzo(g,h,i)pe...	1.402	1.365	1.426	1.432	1.499	1.477	1.509	1.444	3.66

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038111.D
 Acq On : 28 Oct 2025 13:00
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Oct 28 17:31:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 17:15:13 2025
 Response via : Initial Calibration

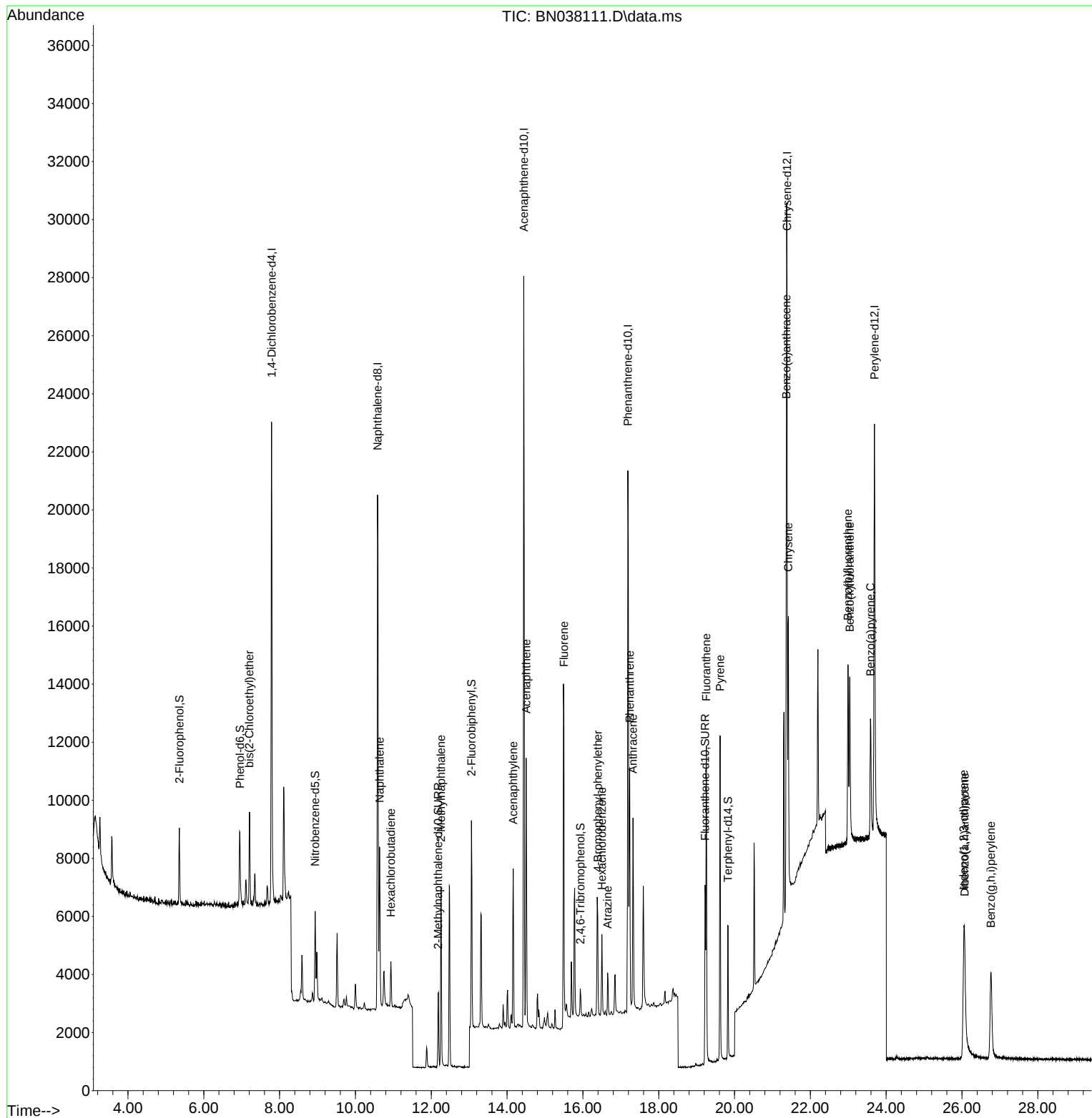
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	8239	0.400	ng	0.01
7) Naphthalene-d8	10.584	136	24762	0.400	ng	# 0.01
13) Acenaphthene-d10	14.441	164	14233	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	28114	0.400	ng	# 0.00
29) Chrysene-d12	21.384	240	22622	0.400	ng	0.00
35) Perylene-d12	23.692	264	20615	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.356	112	2196	0.113	ng	0.00
5) Phenol-d6	6.952	99	2608	0.110	ng	0.01
8) Nitrobenzene-d5	8.939	82	2497	0.125	ng	0.01
11) 2-Methylnaphthalene-d10	12.182	152	3595	0.102	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	558	0.095	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	6383	0.112	ng	0.01
27) Fluoranthene-d10	19.225	212	7307	0.103	ng	0.00
31) Terphenyl-d14	19.829	244	4967	0.101	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.204	93	2398	0.103	ng	Qvalue 95
9) Naphthalene	10.637	128	7049	0.103	ng	95
10) Hexachlorobutadiene	10.936	225	1223	0.106	ng	# 98
12) 2-Methylnaphthalene	12.258	142	4736	0.104	ng	96
16) Acenaphthylene	14.163	152	6290	0.098	ng	100
17) Acenaphthene	14.505	154	4482	0.099	ng	98
18) Fluorene	15.499	166	5513	0.093	ng	97
21) 4-Bromophenyl-phenylether	16.391	248	1824	0.099	ng	# 82
22) Hexachlorobenzene	16.503	284	2137	0.102	ng	98
23) Atrazine	16.652	200	1338	0.099	ng	# 90
25) Phenanthrene	17.236	178	9006	0.101	ng	99
26) Anthracene	17.322	178	7562	0.097	ng	98
28) Fluoranthene	19.257	202	10174	0.102	ng	99
30) Pyrene	19.620	202	10370	0.102	ng	99
32) Benzo(a)anthracene	21.367	228	8433	0.104	ng	99
33) Chrysene	21.420	228	9181	0.105	ng	98
36) Indeno(1,2,3-cd)pyrene	26.048	276	7839	0.093	ng	98
37) Benzo(b)fluoranthene	22.993	252	8261	0.094	ng	# 67
38) Benzo(k)fluoranthene	23.040	252	8515	0.096	ng	# 67
39) Benzo(a)pyrene	23.590	252	6927	0.098	ng	# 58
40) Dibenzo(a,h)anthracene	26.072	278	5922	0.091	ng	# 71
41) Benzo(g,h,i)perylene	26.765	276	7227	0.097	ng	# 88

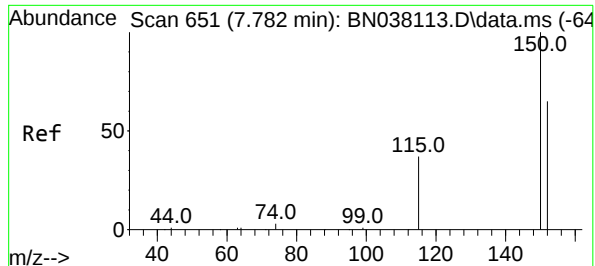
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038111.D
Acq On : 28 Oct 2025 13:00
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Oct 28 17:31:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 17:15:13 2025
Response via : Initial Calibration

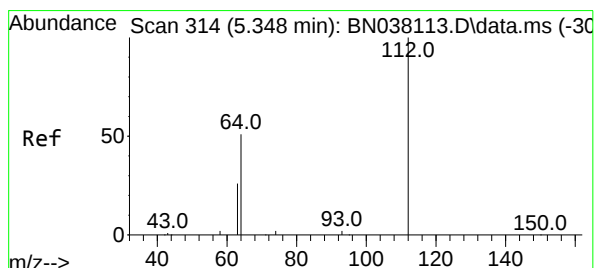
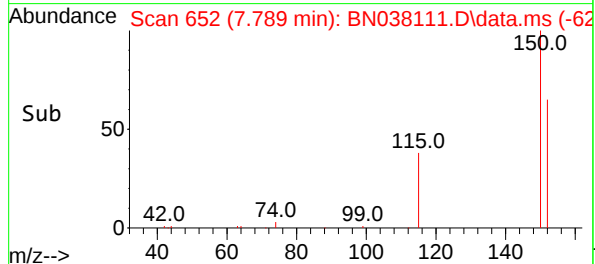
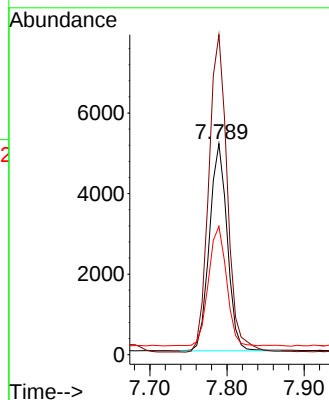
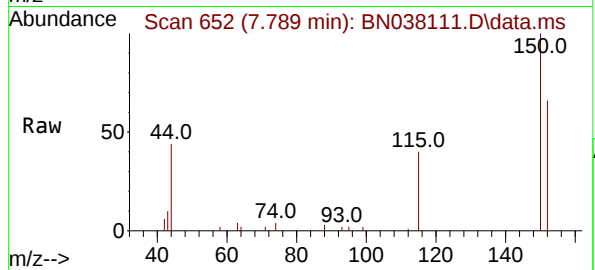




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.014 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

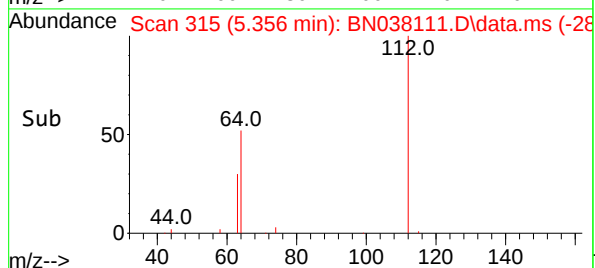
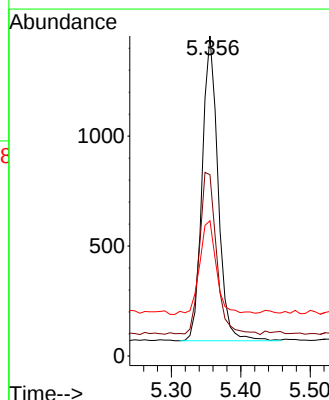
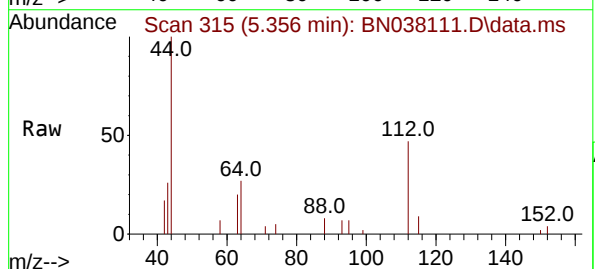
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

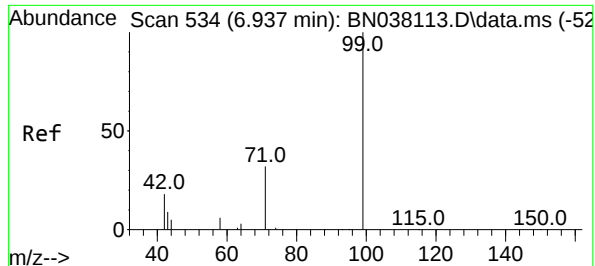
Tgt Ion:152 Resp: 8239
Ion Ratio Lower Upper
152 100
150 151.7 122.3 183.5
115 60.8 47.4 71.0



#4
2-Fluorophenol
Concen: 0.113 ng
RT: 5.356 min Scan# 315
Delta R.T. 0.007 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion:112 Resp: 2196
Ion Ratio Lower Upper
112 100
64 57.2 45.4 68.0
63 32.8 23.2 34.8

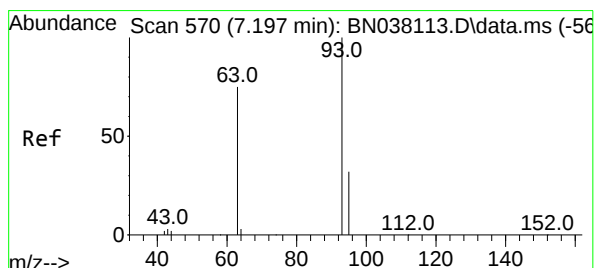
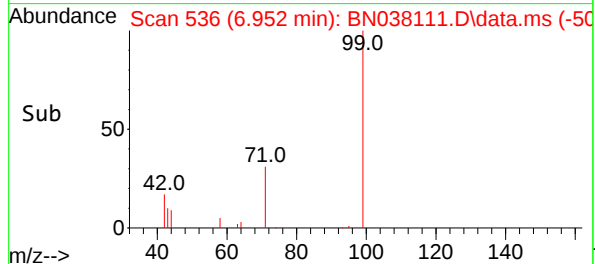
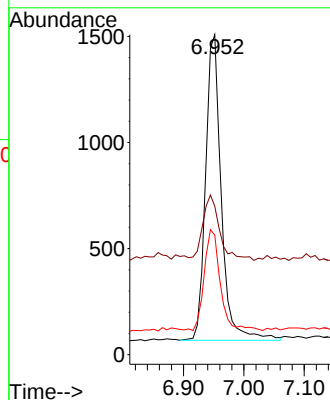
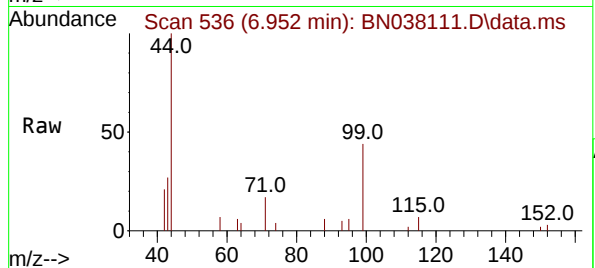




#5
Phenol-d6
Concen: 0.110 ng
RT: 6.952 min Scan# 511
Delta R.T. 0.015 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

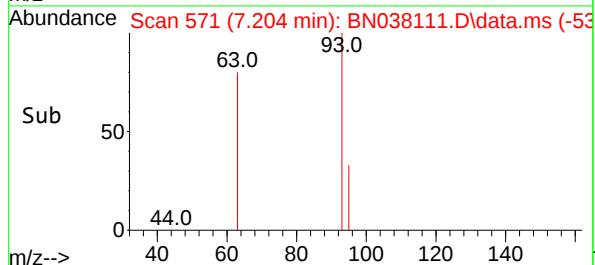
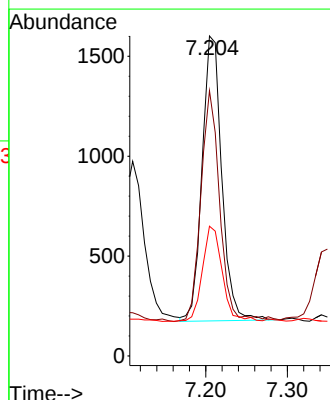
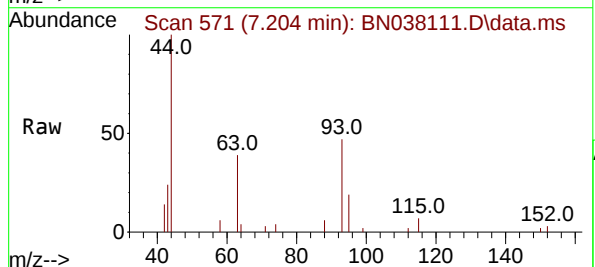
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

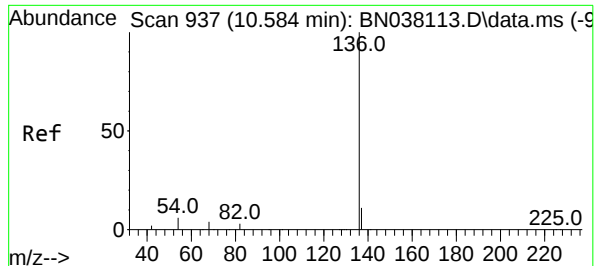
Tgt Ion: 99 Resp: 2608
Ion Ratio Lower Upper
99 100
42 23.4 16.6 24.8
71 34.0 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.103 ng
RT: 7.204 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion: 93 Resp: 2398
Ion Ratio Lower Upper
93 100
63 78.2 59.3 88.9
95 34.1 25.2 37.8

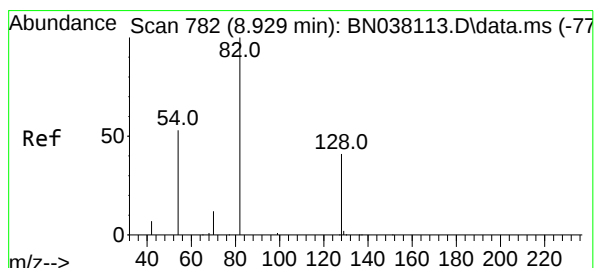
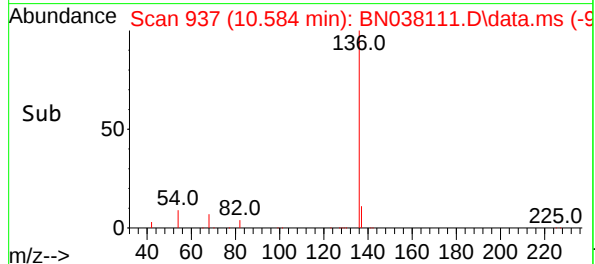
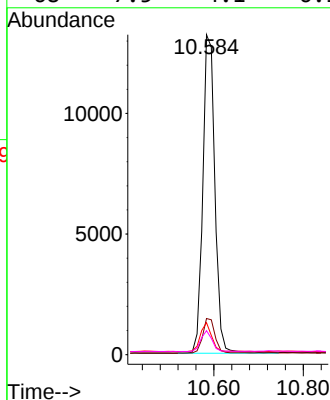
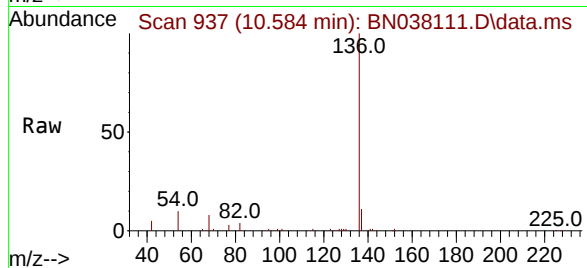




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

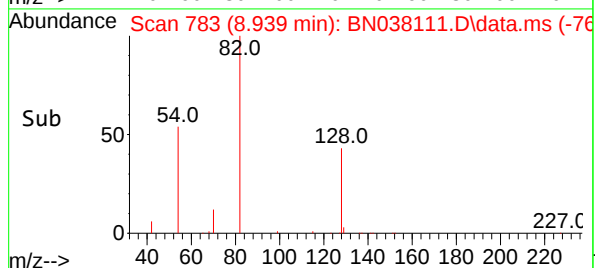
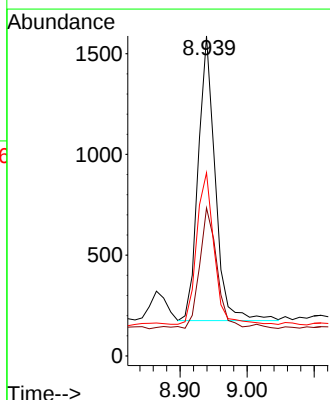
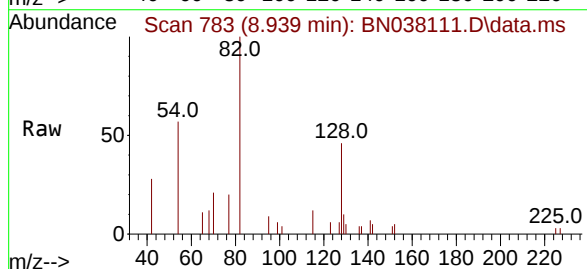
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

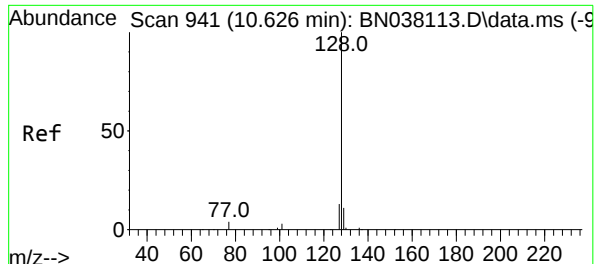
Tgt Ion:136 Resp: 24762
Ion Ratio Lower Upper
136 100
137 11.3 9.0 13.4
54 10.0 5.2 7.8#
68 7.5 4.1 6.1#



#8
Nitrobenzene-d5
Concen: 0.125 ng
RT: 8.939 min Scan# 783
Delta R.T. 0.011 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion: 82 Resp: 2497
Ion Ratio Lower Upper
82 100
128 46.2 34.1 51.1
54 57.2 43.5 65.3





#9

Naphthalene

Concen: 0.103 ng

RT: 10.637 min Scan# 941

Delta R.T. 0.011 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

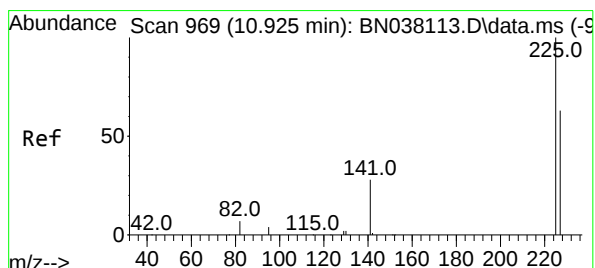
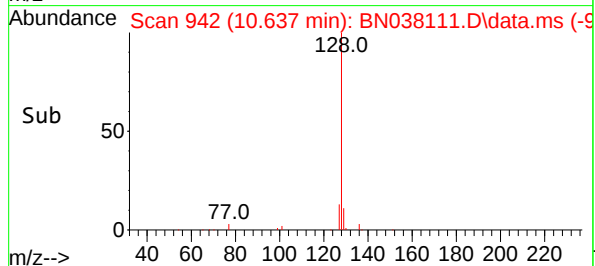
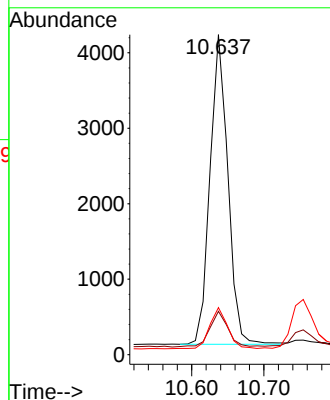
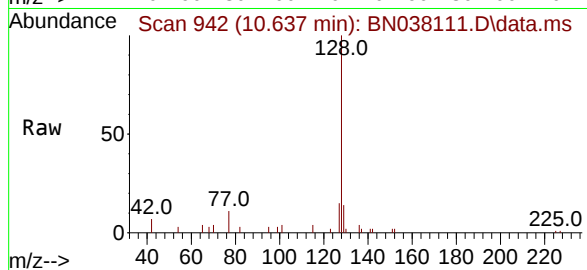
Tgt Ion:128 Resp: 7049

Ion Ratio Lower Upper

128 100

129 13.5 9.1 13.7

127 14.7 10.5 15.7



#10

Hexachlorobutadiene

Concen: 0.106 ng

RT: 10.936 min Scan# 970

Delta R.T. 0.011 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

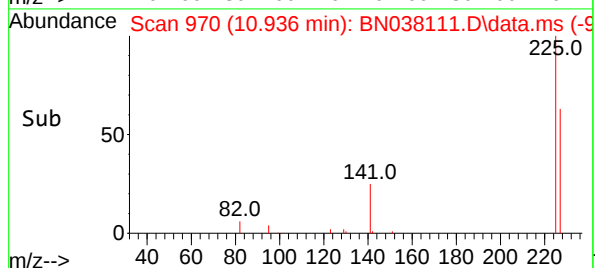
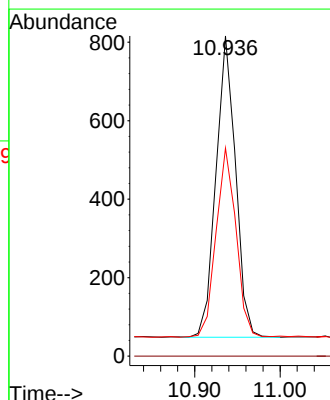
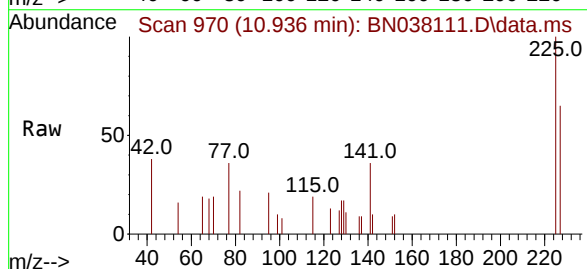
Tgt Ion:225 Resp: 1223

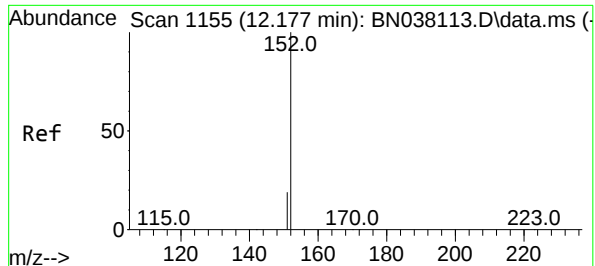
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 50.3 75.5

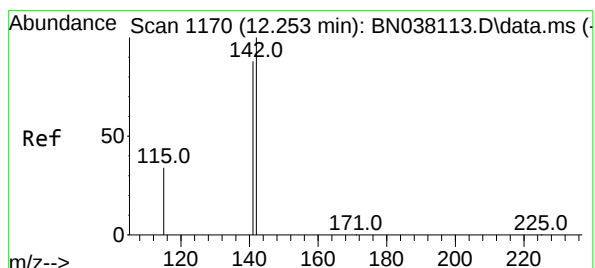
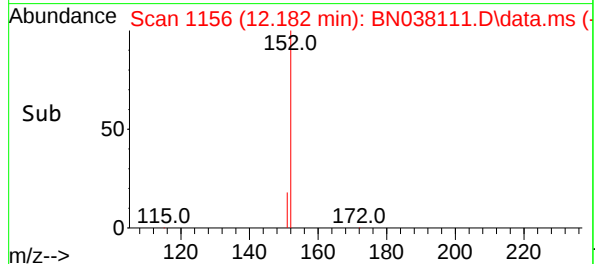
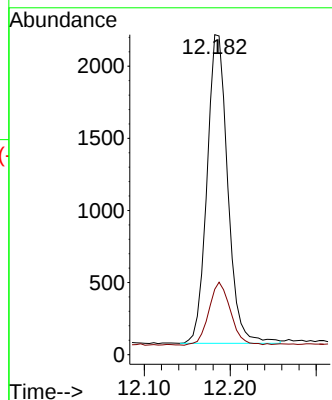
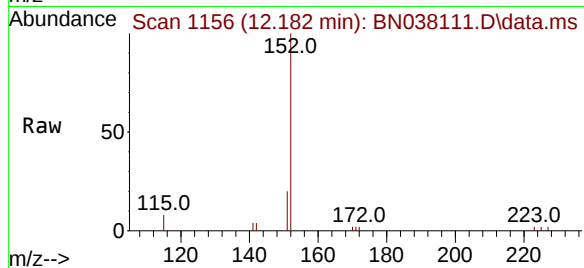




#11
2-Methylnaphthalene-d10
Concen: 0.102 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

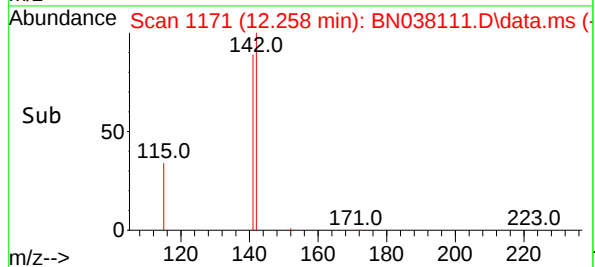
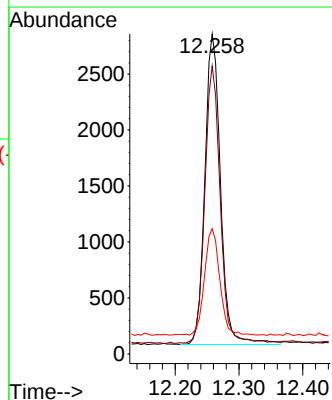
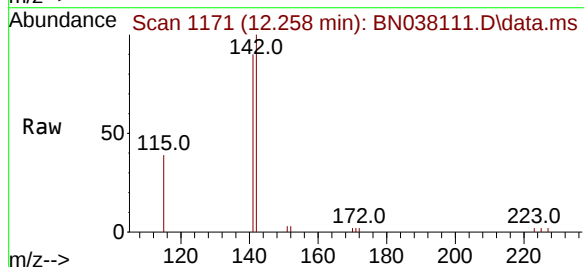
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

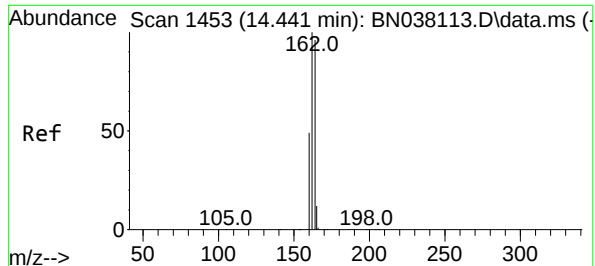
Tgt Ion:152 Resp: 3595
Ion Ratio Lower Upper
152 100
151 21.4 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.104 ng
RT: 12.258 min Scan# 1171
Delta R.T. 0.010 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion:142 Resp: 4736
Ion Ratio Lower Upper
142 100
141 90.0 70.3 105.5
115 39.2 27.8 41.6

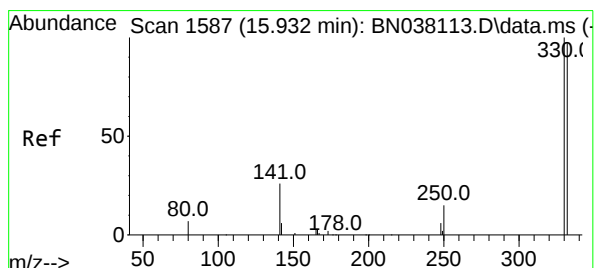
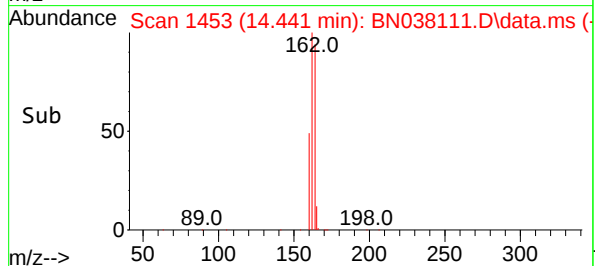
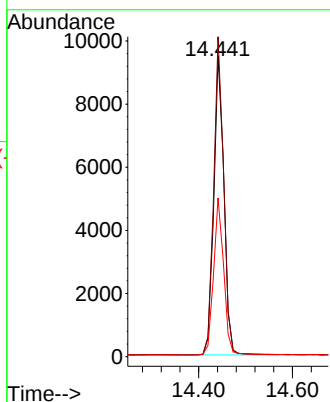
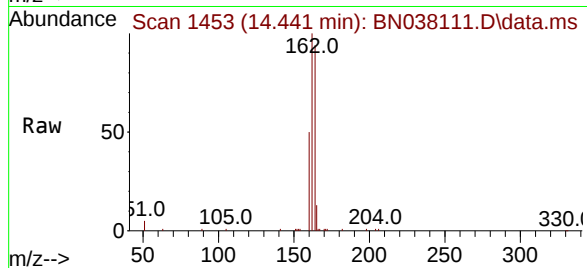




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

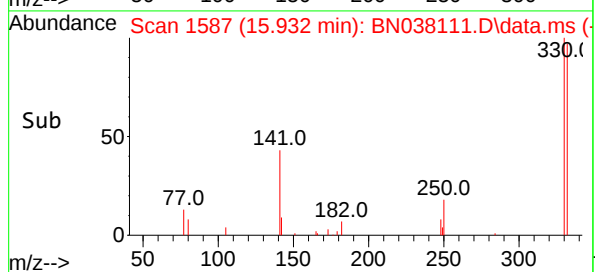
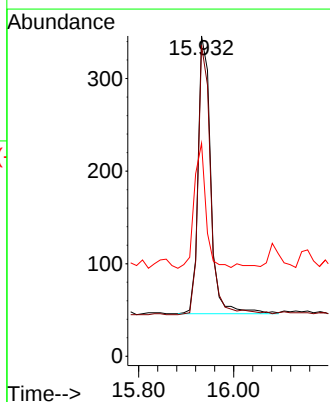
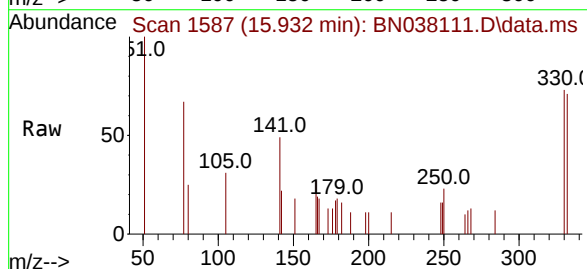
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

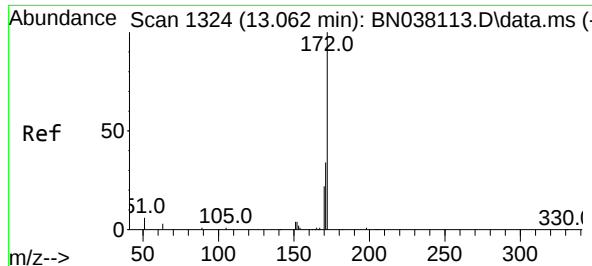
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.0	124.4
160	52.7	40.7	61.1



#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	114.8
141	41.0	34.1	51.1





#15

2-Fluorobiphenyl

Concen: 0.112 ng

RT: 13.062 min Scan# 11

Delta R.T. 0.011 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

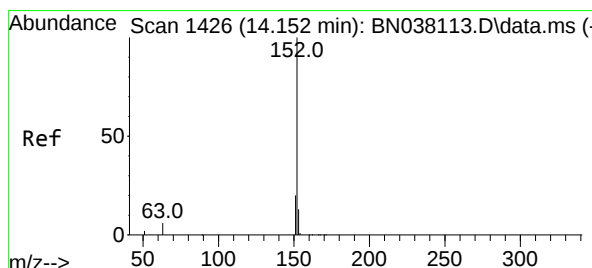
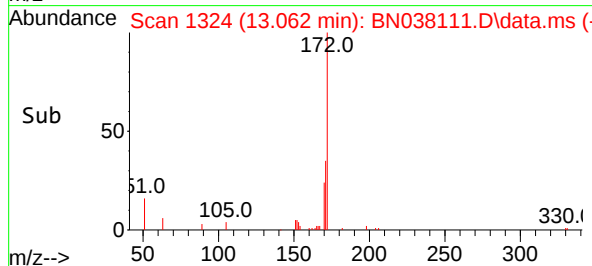
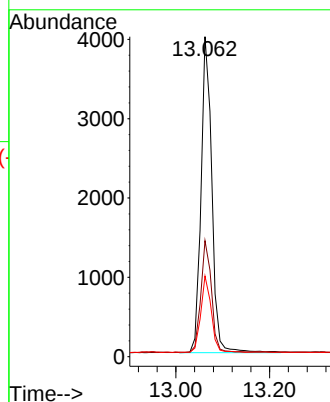
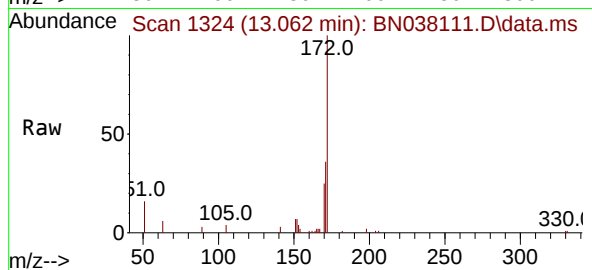
Tgt Ion:172 Resp: 6383

Ion Ratio Lower Upper

172 100

171 36.2 27.8 41.6

170 25.2 18.1 27.1



#16

Acenaphthylene

Concen: 0.098 ng

RT: 14.163 min Scan# 1427

Delta R.T. 0.011 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

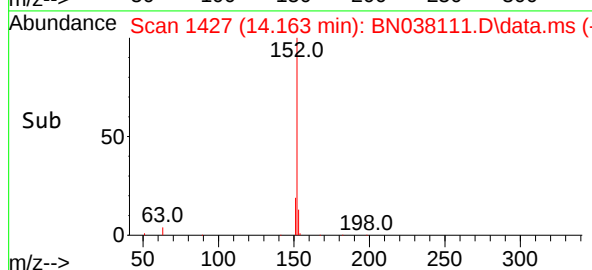
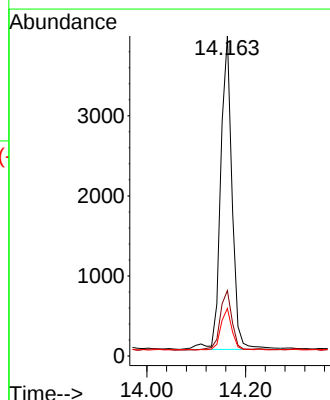
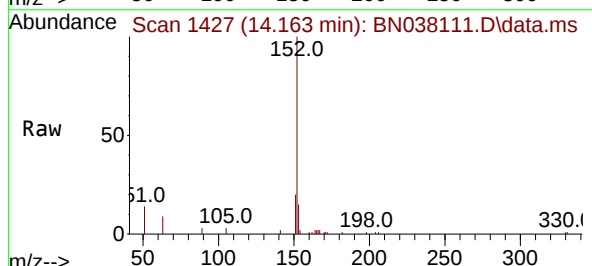
Tgt Ion:152 Resp: 6290

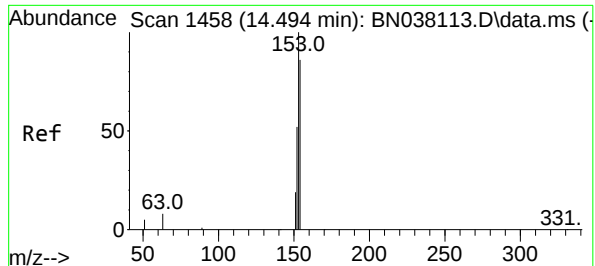
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 12.9 10.2 15.2

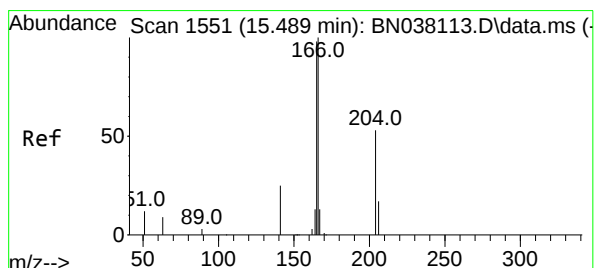
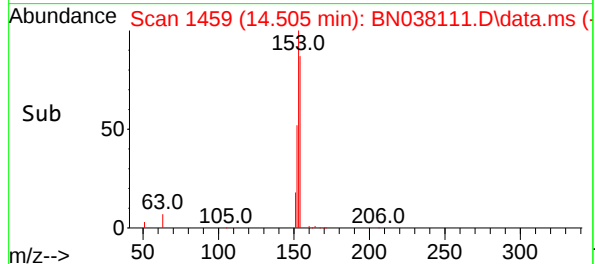
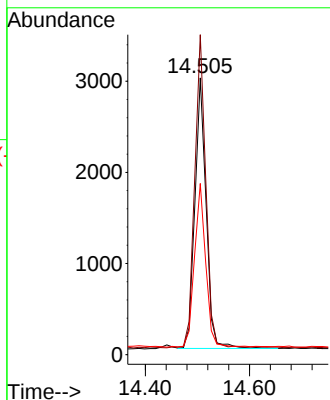
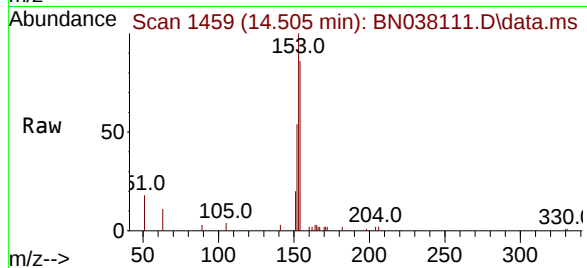




#17
Acenaphthene
Concen: 0.099 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.011 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

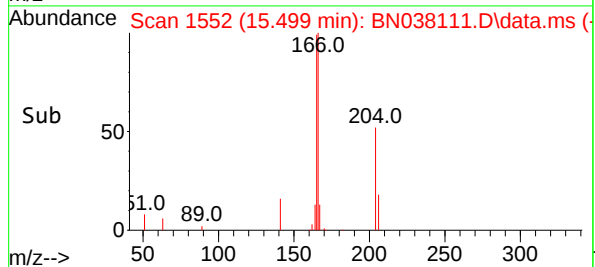
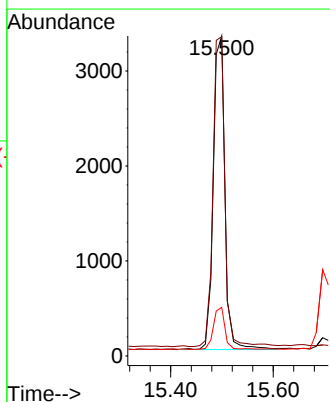
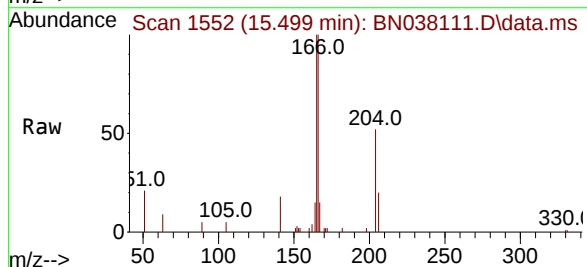
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

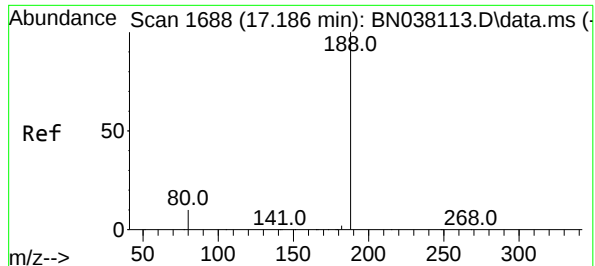
Tgt Ion:154 Resp: 4482
Ion Ratio Lower Upper
154 100
153 114.1 90.0 135.0
152 60.7 47.3 70.9



#18
Fluorene
Concen: 0.093 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.010 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion:166 Resp: 5513
Ion Ratio Lower Upper
166 100
165 102.4 79.0 118.4
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

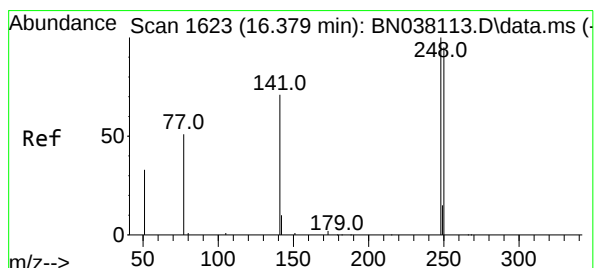
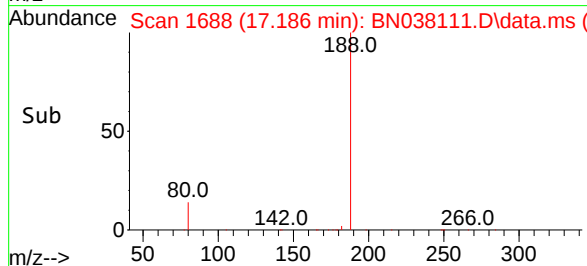
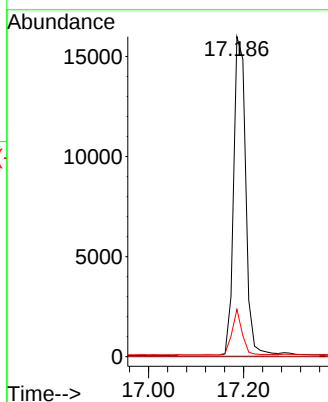
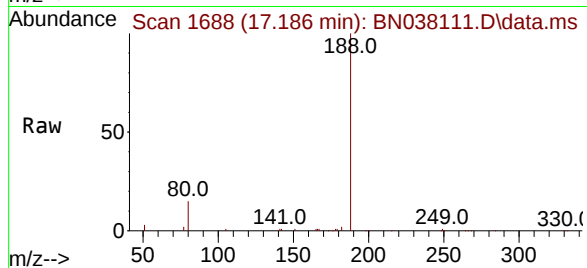
Tgt Ion:188 Resp: 28114

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 8.6 13.0#



#21

4-Bromophenyl-phenylether

Concen: 0.099 ng

RT: 16.391 min Scan# 1624

Delta R.T. 0.012 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

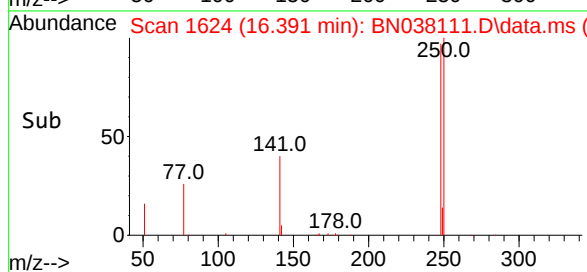
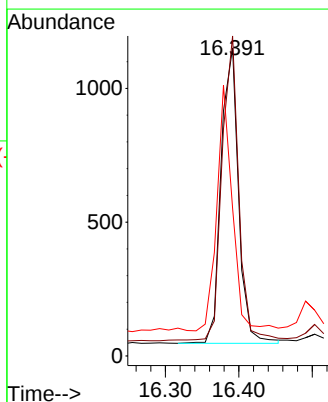
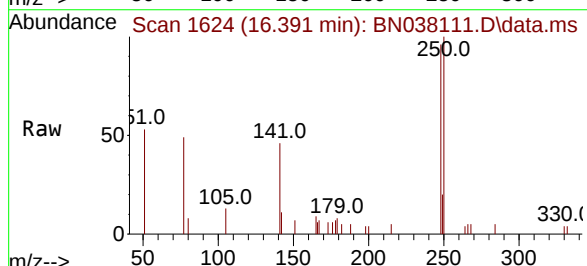
Tgt Ion:248 Resp: 1824

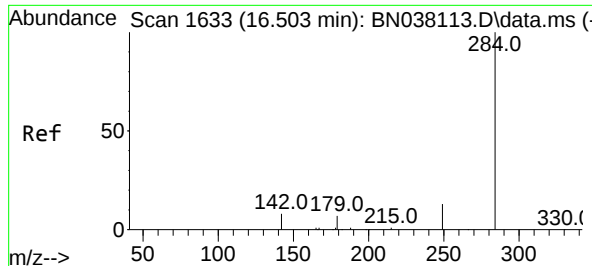
Ion Ratio Lower Upper

248 100

250 103.9 76.2 114.2

141 48.0 57.6 86.4#





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.503 min Scan# 1633

Delta R.T. 0.000 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

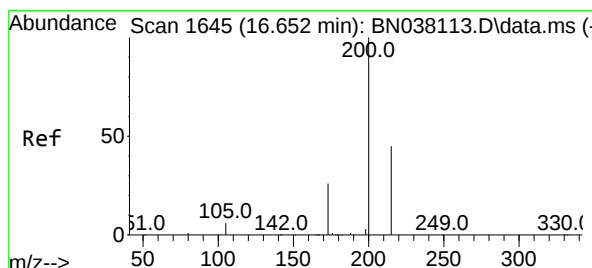
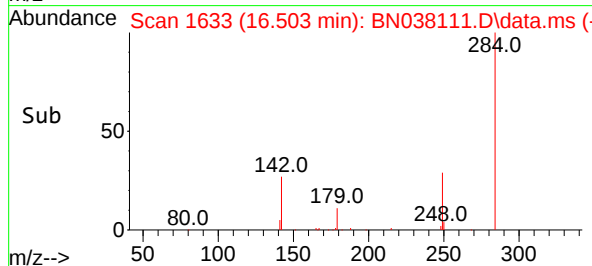
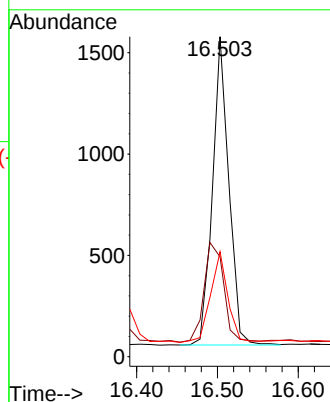
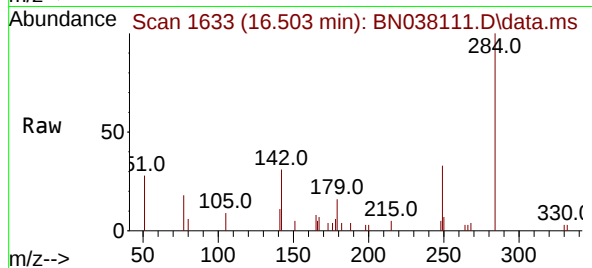
Tgt Ion:284 Resp: 2137

Ion Ratio Lower Upper

284 100

142 38.9 30.5 45.7

249 31.2 23.5 35.3



#23

Atrazine

Concen: 0.099 ng

RT: 16.652 min Scan# 1645

Delta R.T. 0.000 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

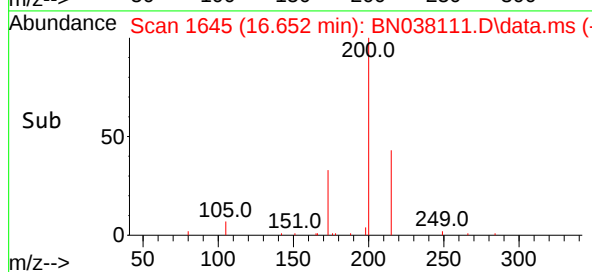
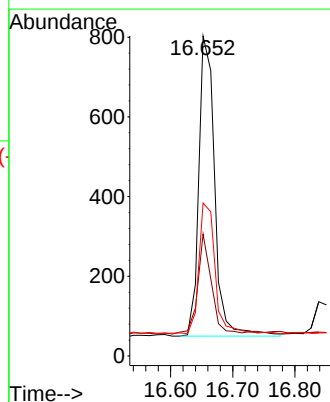
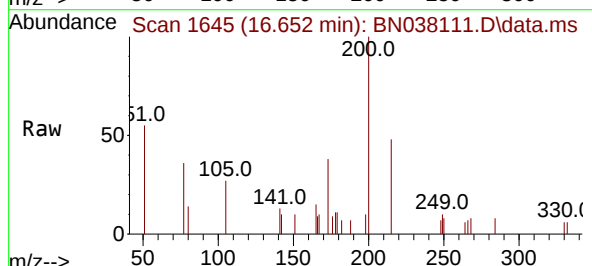
Tgt Ion:200 Resp: 1338

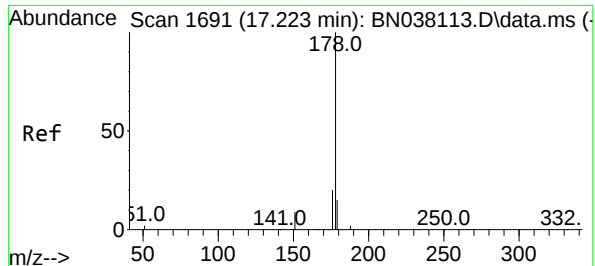
Ion Ratio Lower Upper

200 100

173 38.1 21.4 32.2#

215 47.8 36.7 55.1

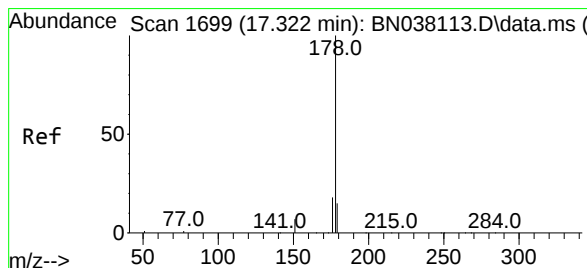
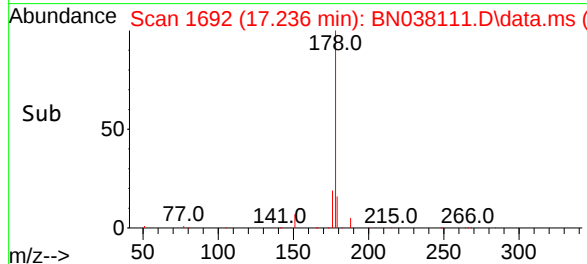
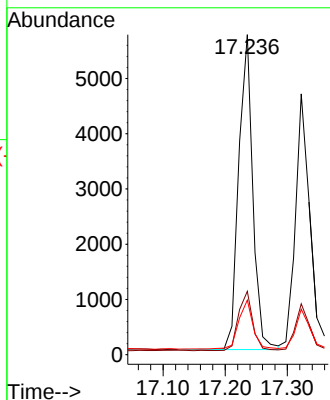
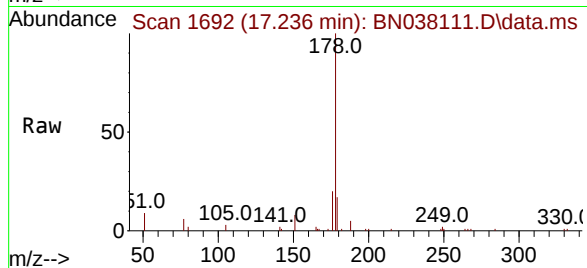




#25
Phenanthrene
Concen: 0.101 ng
RT: 17.236 min Scan# 1692
Delta R.T. 0.012 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

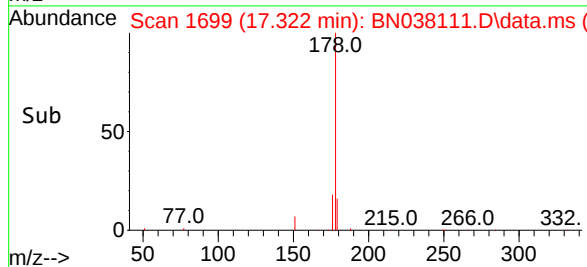
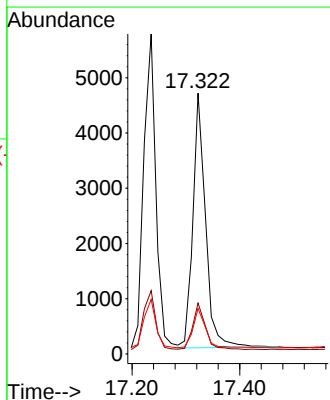
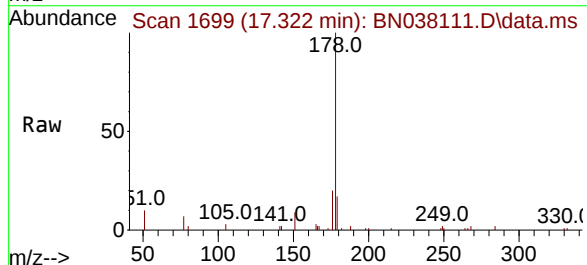
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

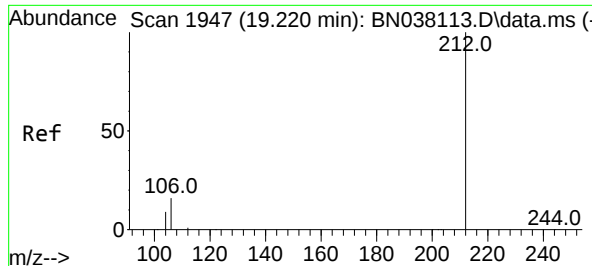
Tgt Ion:178 Resp: 9006
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.8 12.2 18.4



#26
Anthracene
Concen: 0.097 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion:178 Resp: 7562
Ion Ratio Lower Upper
178 100
176 18.4 14.9 22.3
179 16.0 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.103 ng

RT: 19.225 min Scan# 1948

Delta R.T. 0.005 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

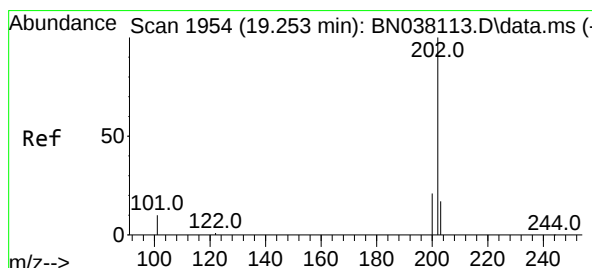
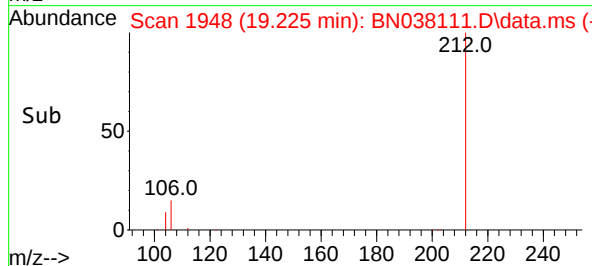
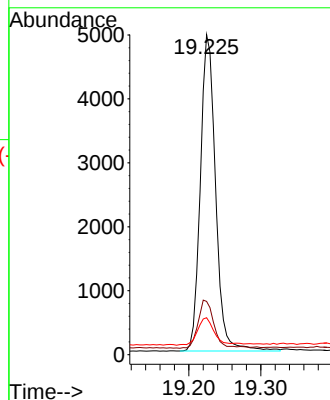
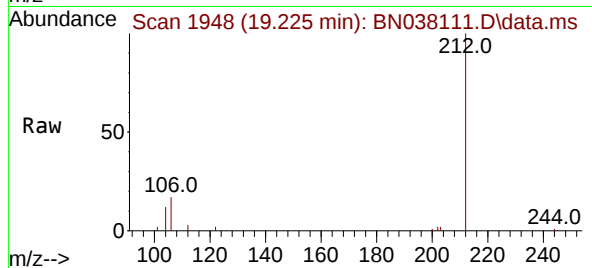
Tgt Ion:212 Resp: 7307

Ion Ratio Lower Upper

212 100

106 15.9 12.6 19.0

104 9.3 7.1 10.7



#28

Fluoranthene

Concen: 0.102 ng

RT: 19.257 min Scan# 1955

Delta R.T. 0.005 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

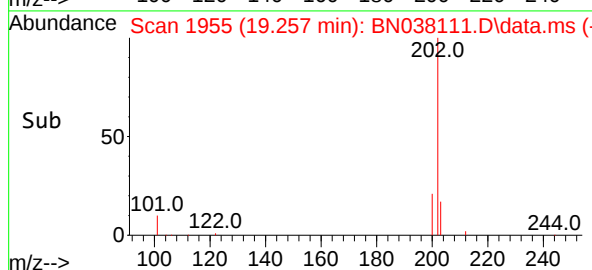
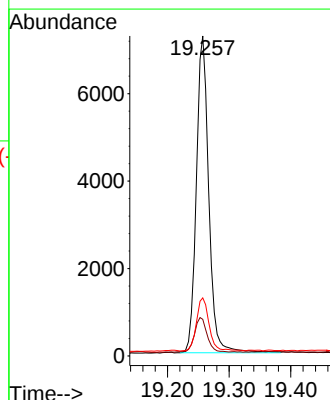
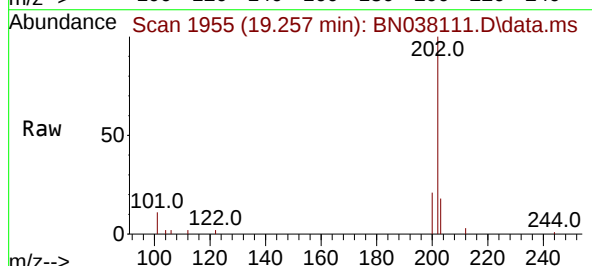
Tgt Ion:202 Resp: 10174

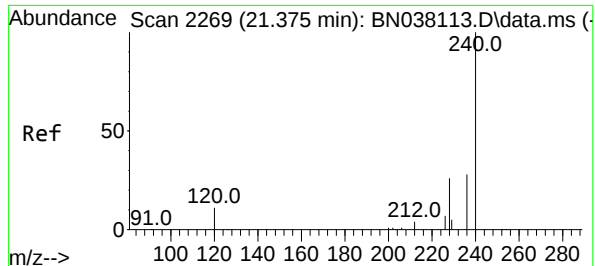
Ion Ratio Lower Upper

202 100

101 11.4 9.4 14.2

203 17.2 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

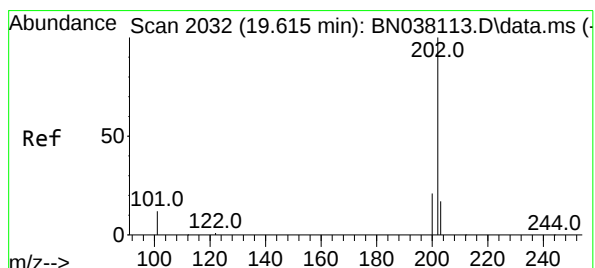
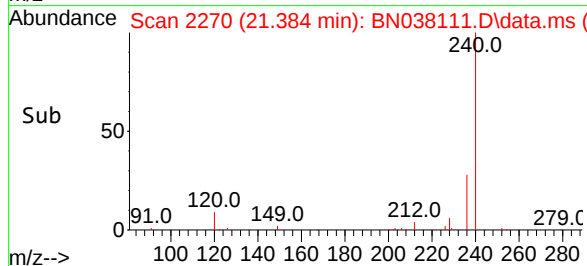
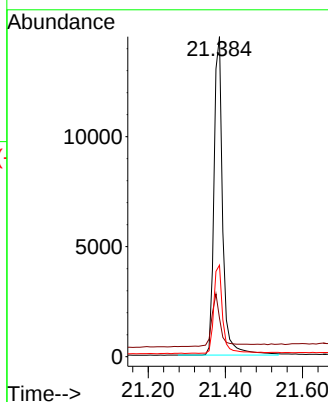
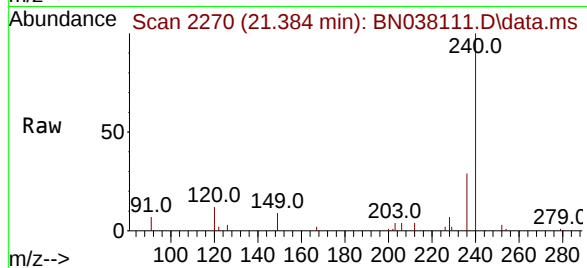
Tgt Ion:240 Resp: 22622

Ion Ratio Lower Upper

240 100

120 12.1 10.7 16.1

236 28.6 23.1 34.7



#30

Pyrene

Concen: 0.102 ng

RT: 19.620 min Scan# 2033

Delta R.T. 0.009 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

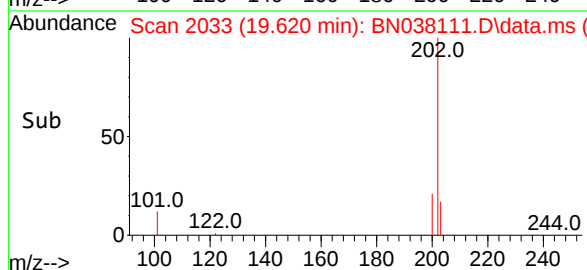
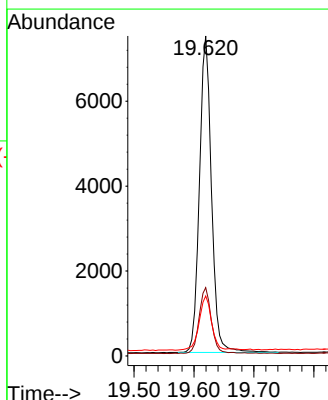
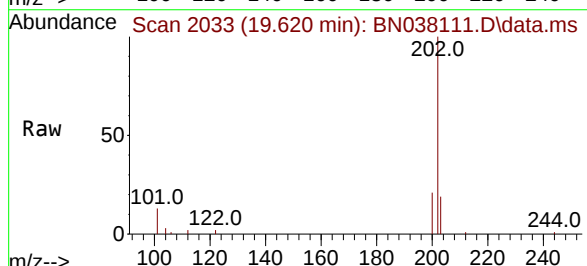
Tgt Ion:202 Resp: 10370

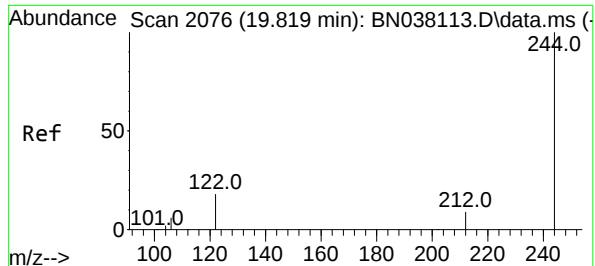
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 18.0 14.2 21.2

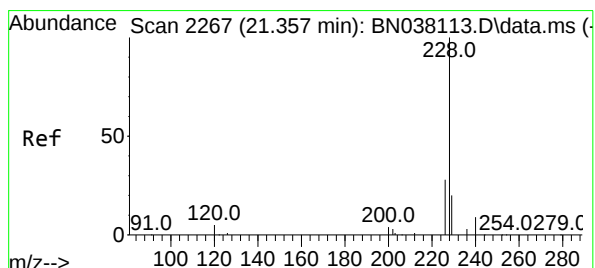
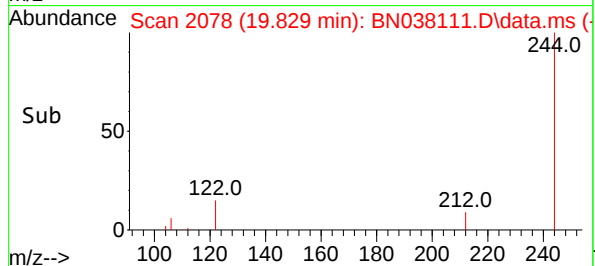
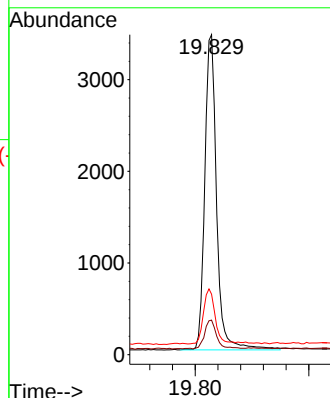
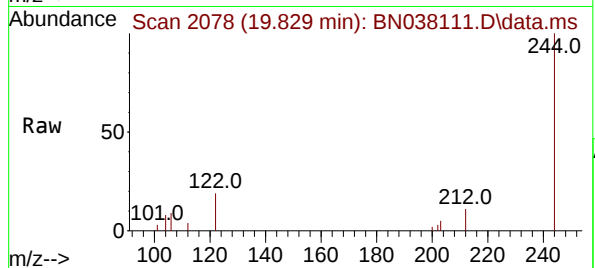




#31
Terphenyl-d14
Concen: 0.101 ng
RT: 19.829 min Scan# 2076
Delta R.T. 0.009 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

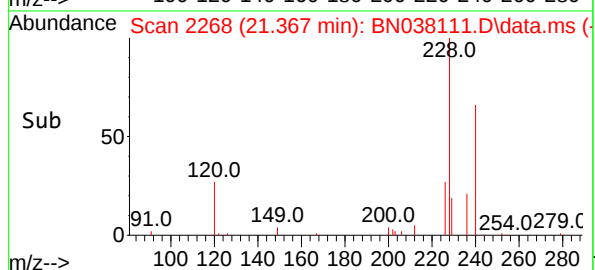
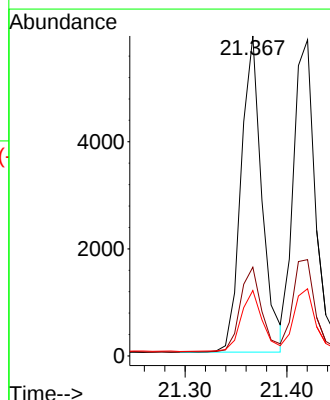
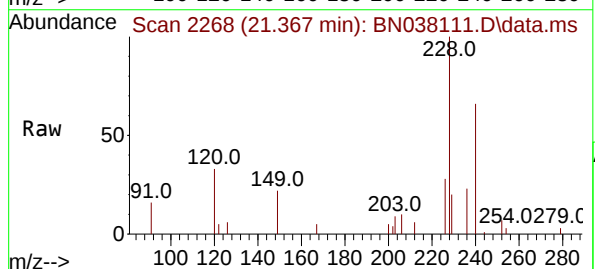
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

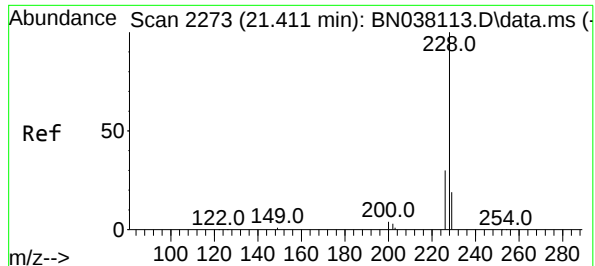
Tgt Ion:244 Resp: 4967
Ion Ratio Lower Upper
244 100
212 10.8 7.8 11.6
122 18.9 15.2 22.8



#32
Benzo(a)anthracene
Concen: 0.104 ng
RT: 21.367 min Scan# 2268
Delta R.T. 0.009 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion:228 Resp: 8433
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.4
229 20.5 15.8 23.8





#33

Chrysene

Concen: 0.105 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

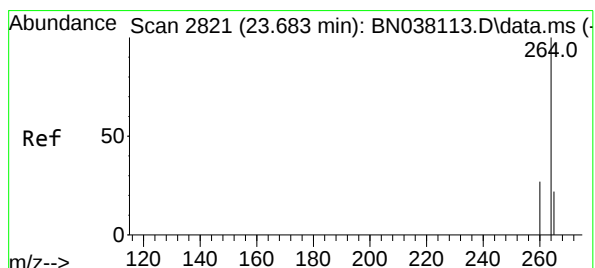
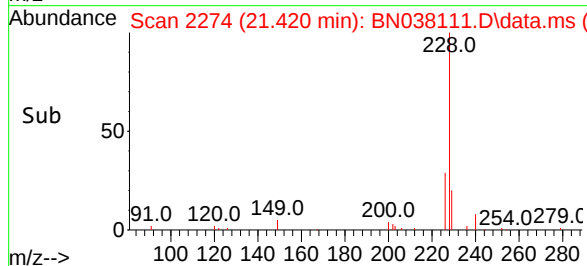
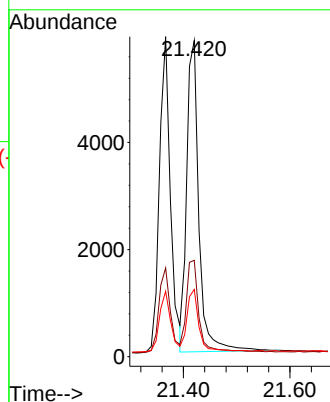
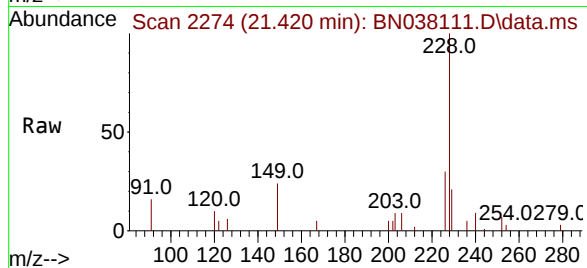
Tgt Ion:228 Resp: 9181

Ion Ratio Lower Upper

228 100

226 30.5 24.3 36.5

229 21.3 15.7 23.5



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.692 min Scan# 2824

Delta R.T. 0.012 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

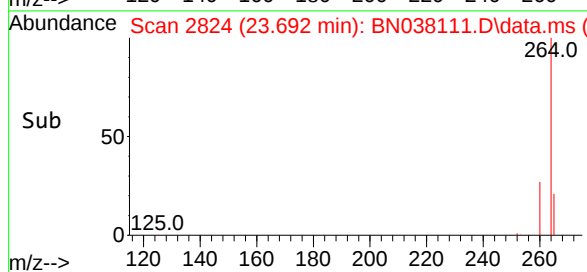
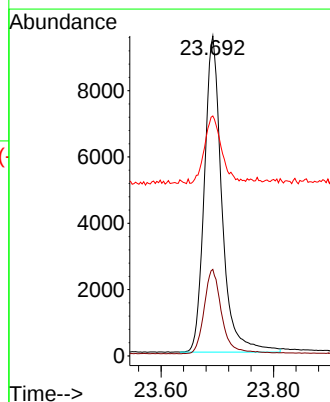
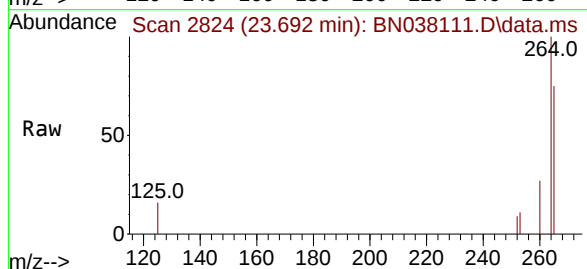
Tgt Ion:264 Resp: 20615

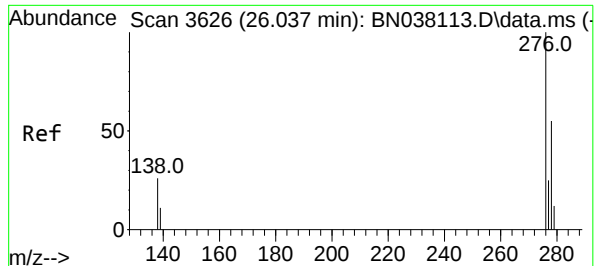
Ion Ratio Lower Upper

264 100

260 27.0 21.8 32.8

265 75.0 68.6 102.8

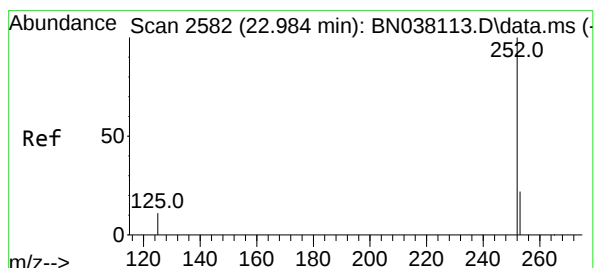
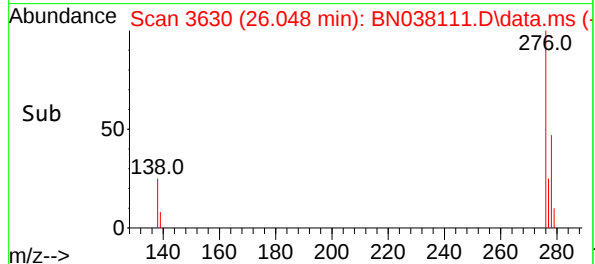
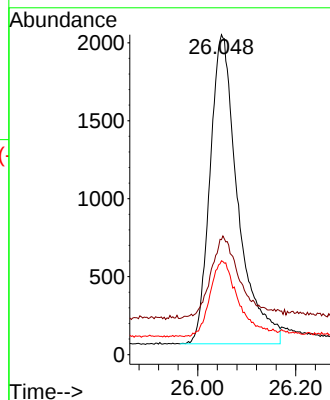
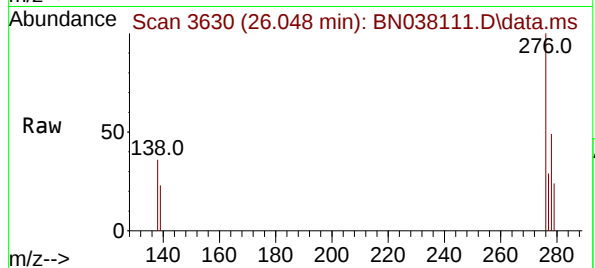




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 26.048 min Scan# 3630
Delta R.T. 0.015 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

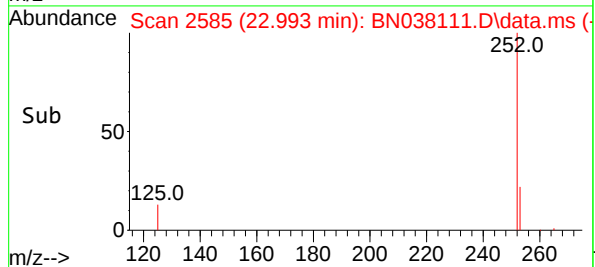
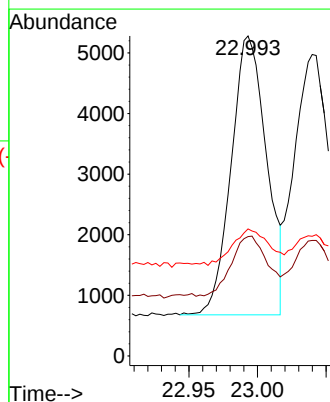
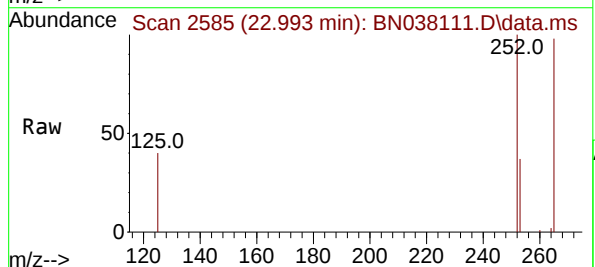
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

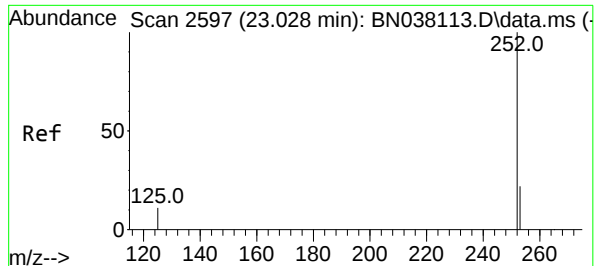
Tgt Ion:276 Resp: 7839
Ion Ratio Lower Upper
276 100
138 25.8 21.4 32.0
277 24.8 19.2 28.8



#37
Benzo(b)fluoranthene
Concen: 0.094 ng
RT: 22.993 min Scan# 2585
Delta R.T. 0.012 min
Lab File: BN038111.D
Acq: 28 Oct 2025 13:00

Tgt Ion:252 Resp: 8261
Ion Ratio Lower Upper
252 100
253 37.3 20.9 31.3#
125 39.7 14.1 21.1#





#38

Benzo(k)fluoranthene

Concen: 0.096 ng

RT: 23.040 min Scan# 2

Delta R.T. 0.012 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

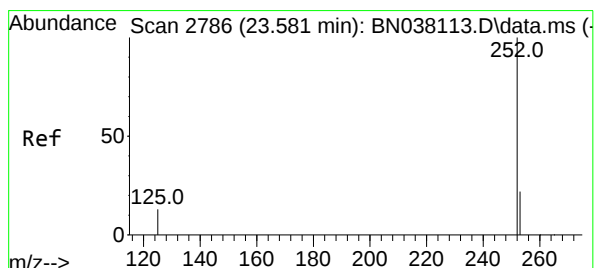
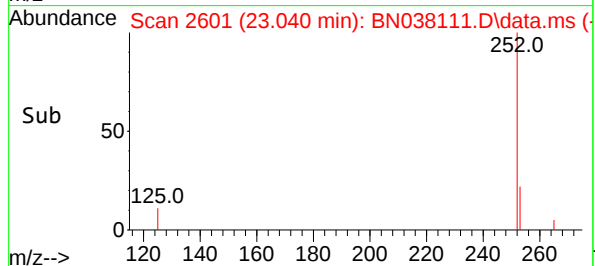
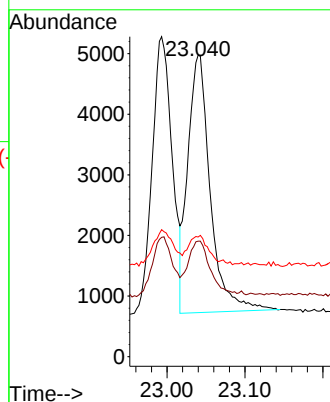
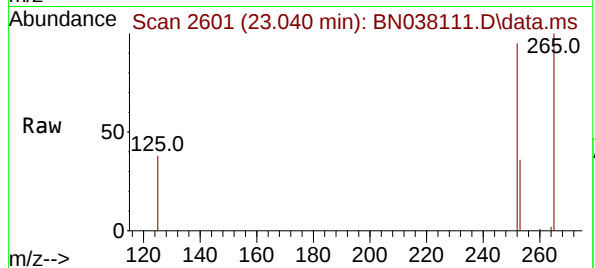
Tgt Ion:252 Resp: 8515

Ion Ratio Lower Upper

252 100

253 38.3 21.2 31.8#

125 39.7 14.6 22.0#



#39

Benzo(a)pyrene

Concen: 0.098 ng

RT: 23.590 min Scan# 2789

Delta R.T. 0.012 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

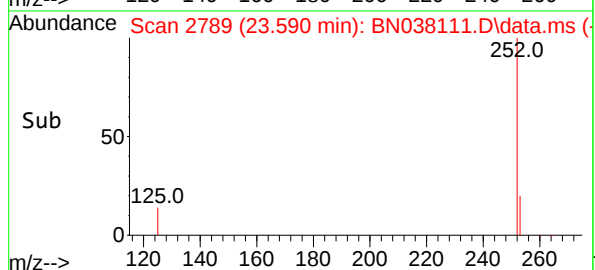
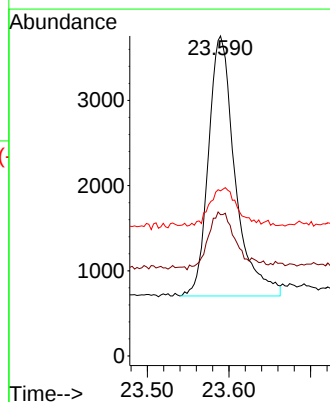
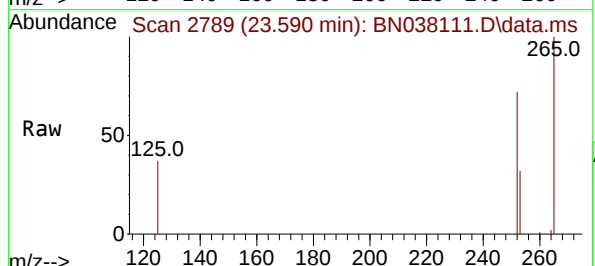
Tgt Ion:252 Resp: 6927

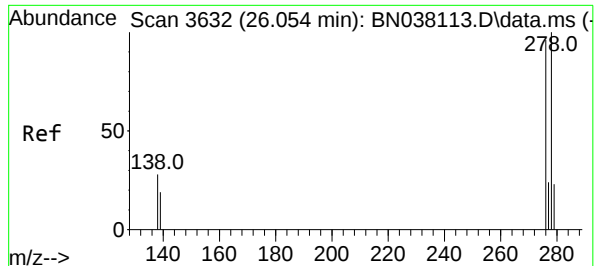
Ion Ratio Lower Upper

252 100

253 44.2 23.1 34.7#

125 51.6 18.6 28.0#





#40

Dibenzo(a,h)anthracene

Concen: 0.091 ng

RT: 26.072 min Scan# 30

Delta R.T. 0.023 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

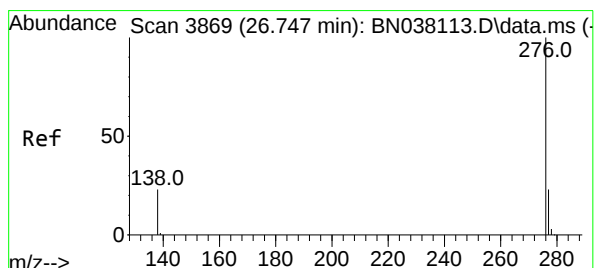
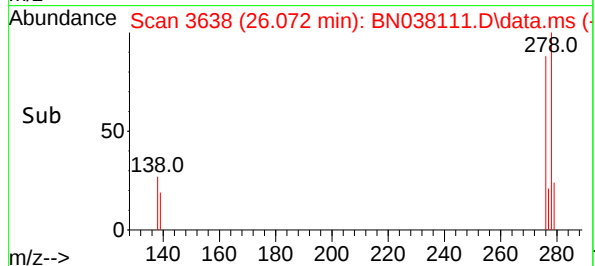
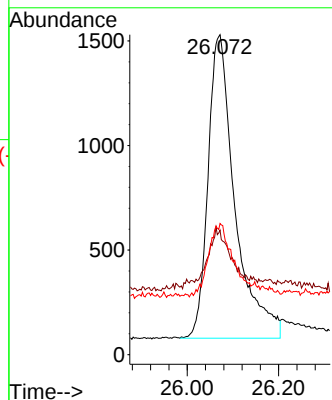
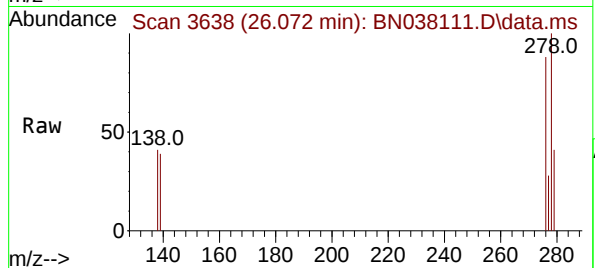
Tgt Ion:278 Resp: 5922

Ion Ratio Lower Upper

278 100

139 38.9 17.6 26.4#

279 41.0 22.6 33.8#



#41

Benzo(g,h,i)perylene

Concen: 0.097 ng

RT: 26.765 min Scan# 3875

Delta R.T. 0.015 min

Lab File: BN038111.D

Acq: 28 Oct 2025 13:00

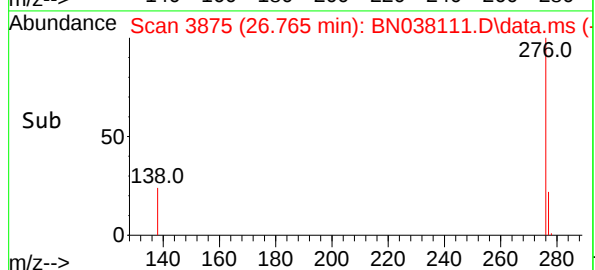
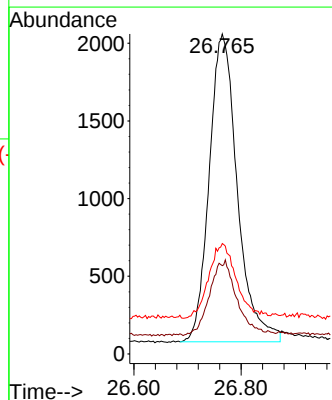
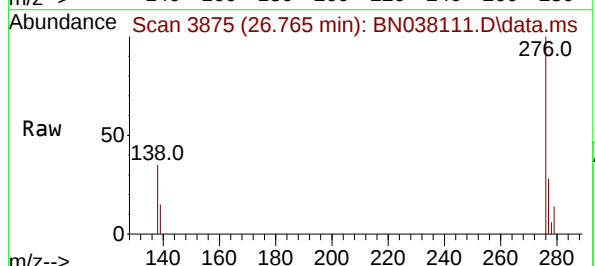
Tgt Ion:276 Resp: 7227

Ion Ratio Lower Upper

276 100

277 27.6 19.7 29.5

138 34.5 20.2 30.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038112.D
 Acq On : 28 Oct 2025 13:36
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Oct 28 17:31:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 17:15:13 2025
 Response via : Initial Calibration

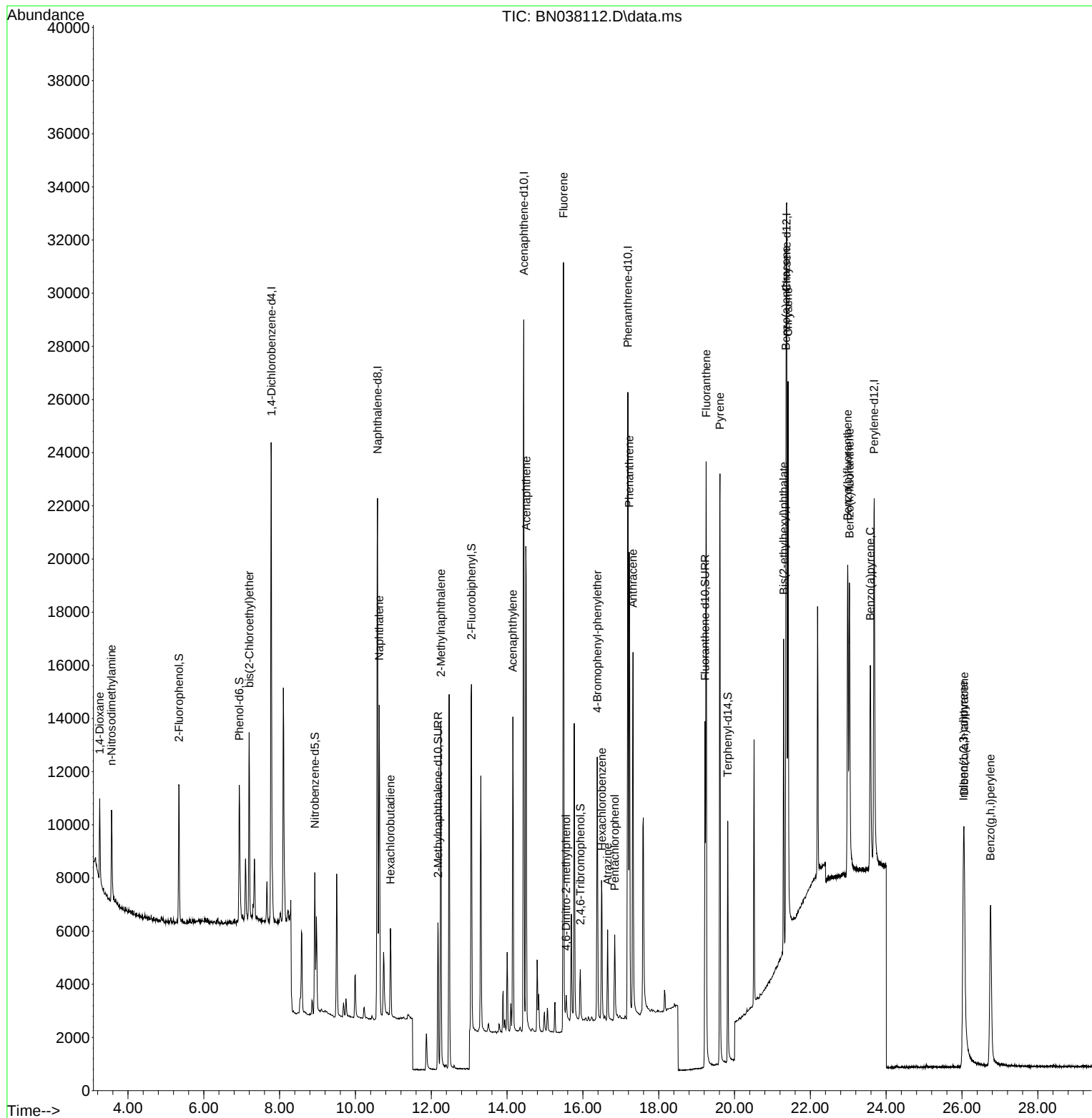
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.782	152	9322	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	28183	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	15941	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	31512	0.400	ng	0.00
29) Chrysene-d12	21.375	240	23080	0.400	ng	0.00
35) Perylene-d12	23.683	264	20598	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	4536	0.207	ng	0.00
5) Phenol-d6	6.937	99	5284	0.198	ng	0.00
8) Nitrobenzene-d5	8.929	82	4403	0.194	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	8012	0.199	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	1201	0.183	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	13145	0.206	ng	0.01
27) Fluoranthene-d10	19.225	212	15247	0.192	ng	0.00
31) Terphenyl-d14	19.824	244	10170	0.203	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.254	88	2078	0.216	ng	95
3) n-Nitrosodimethylamine	3.564	42	2463	0.199	ng	# 98
6) bis(2-Chloroethyl)ether	7.197	93	5312	0.202	ng	99
9) Naphthalene	10.626	128	15455	0.199	ng	98
10) Hexachlorobutadiene	10.925	225	2632	0.201	ng	# 97
12) 2-Methylnaphthalene	12.253	142	10027	0.194	ng	99
16) Acenaphthylene	14.152	152	13787	0.191	ng	99
17) Acenaphthene	14.505	154	9898	0.196	ng	100
18) Fluorene	15.489	166	13019	0.197	ng	100
20) 4,6-Dinitro-2-methylph...	15.560	198	639	0.238	ng	# 40
21) 4-Bromophenyl-phenylether	16.379	248	3948	0.191	ng	98
22) Hexachlorobenzene	16.503	284	4594	0.196	ng	99
23) Atrazine	16.652	200	2774	0.183	ng	98
24) Pentachlorophenol	16.838	266	1769	0.175	ng	98
25) Phenanthrene	17.223	178	19374	0.194	ng	100
26) Anthracene	17.322	178	16201	0.185	ng	99
28) Fluoranthene	19.253	202	21232	0.190	ng	99
30) Pyrene	19.615	202	21387	0.205	ng	100
32) Benzo(a)anthracene	21.358	228	15917	0.193	ng	99
33) Chrysene	21.411	228	18301	0.205	ng	99
34) Bis(2-ethylhexyl)phtha...	21.295	149	10496	0.242	ng	100
36) Indeno(1,2,3-cd)pyrene	26.039	276	15575	0.184	ng	99
37) Benzo(b)fluoranthene	22.984	252	15888	0.180	ng	# 90
38) Benzo(k)fluoranthene	23.031	252	16371	0.185	ng	# 91
39) Benzo(a)pyrene	23.584	252	13137	0.186	ng	# 84
40) Dibenzo(a,h)anthracene	26.057	278	11845	0.182	ng	95
41) Benzo(g,h,i)perylene	26.753	276	14055	0.189	ng	95

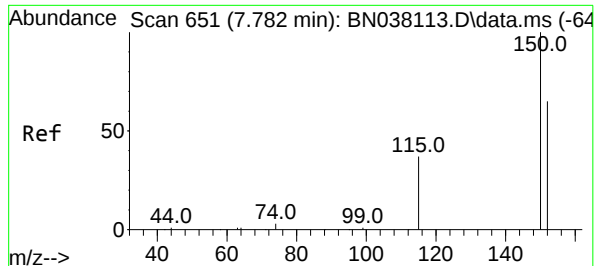
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN038112.D
Acq On : 28 Oct 2025 13:36
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Oct 28 17:31:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 17:15:13 2025
Response via : Initial Calibration

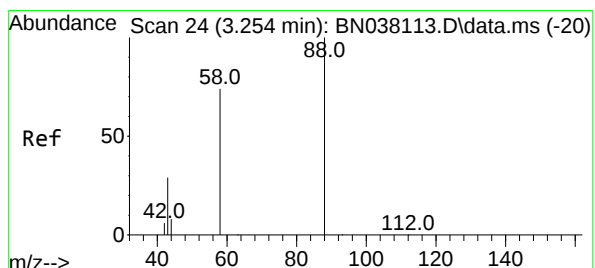
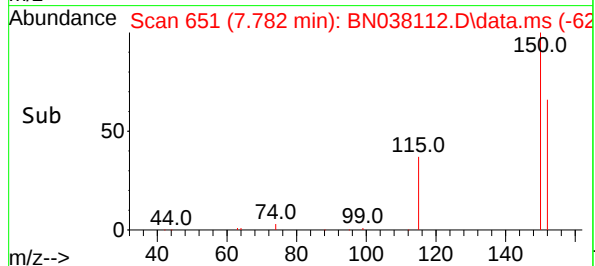
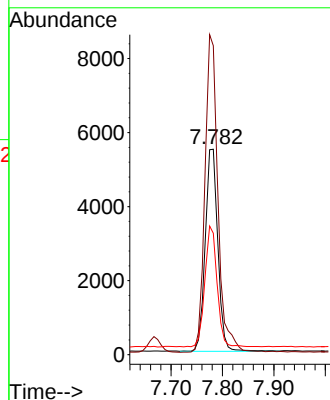
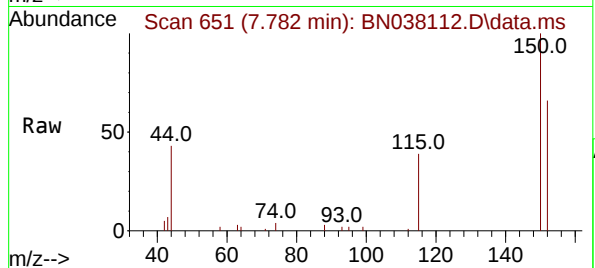




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.782 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

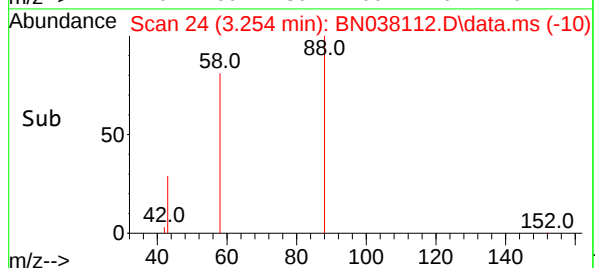
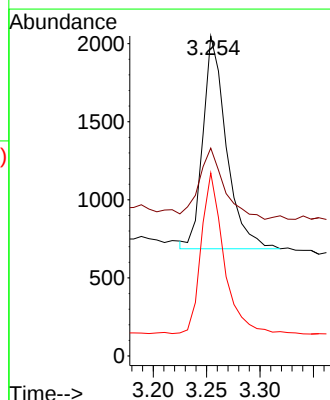
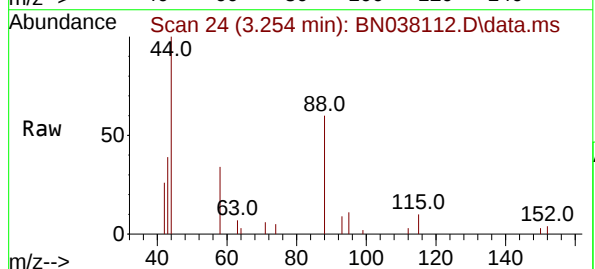
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

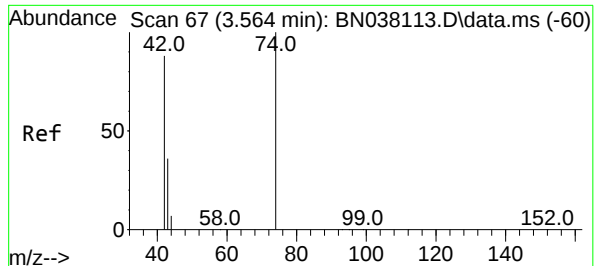
Tgt Ion:152 Resp: 9322
Ion Ratio Lower Upper
152 100
150 150.4 122.3 183.5
115 59.1 47.4 71.0



#2
1,4-Dioxane
Concen: 0.216 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion: 88 Resp: 2078
Ion Ratio Lower Upper
88 100
43 36.3 24.3 36.5
58 73.3 60.4 90.6

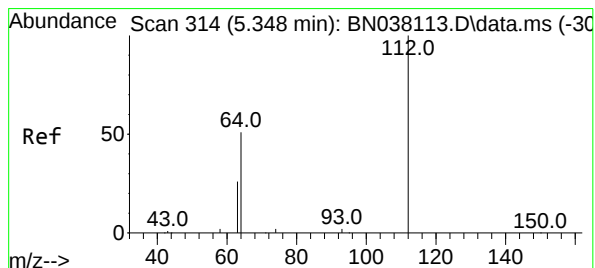
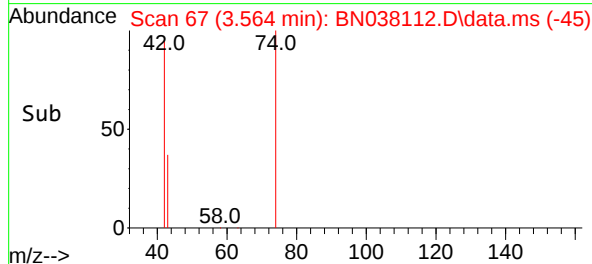
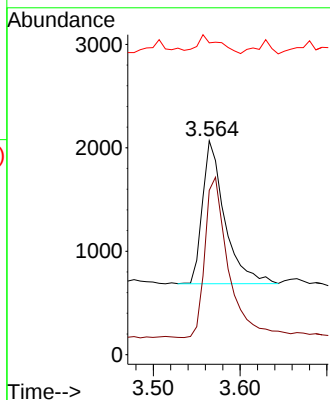
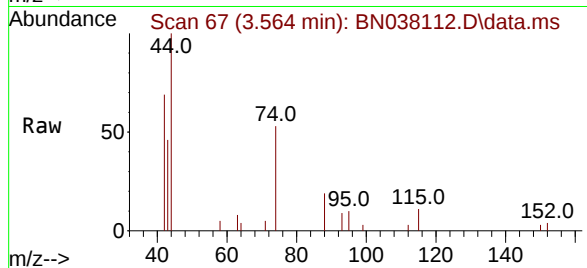




#3
n-Nitrosodimethylamine
Concen: 0.199 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

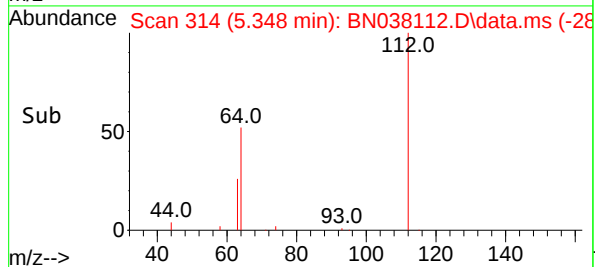
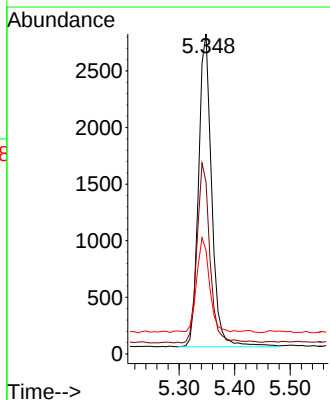
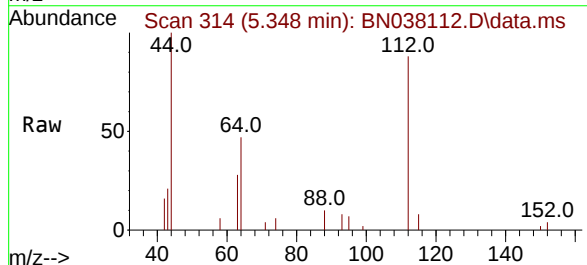
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

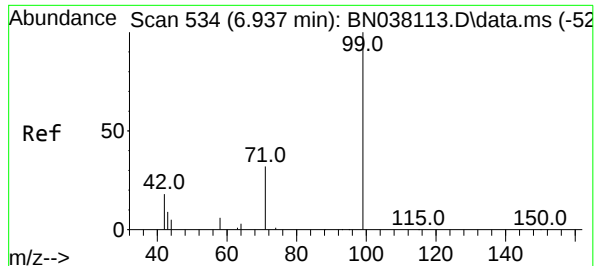
Tgt Ion: 42 Resp: 2463
Ion Ratio Lower Upper
42 100
74 121.8 96.8 145.2
44 12.3 5.3 7.9#



#4
2-Fluorophenol
Concen: 0.207 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion: 112 Resp: 4536
Ion Ratio Lower Upper
112 100
64 56.6 45.4 68.0
63 30.2 23.2 34.8

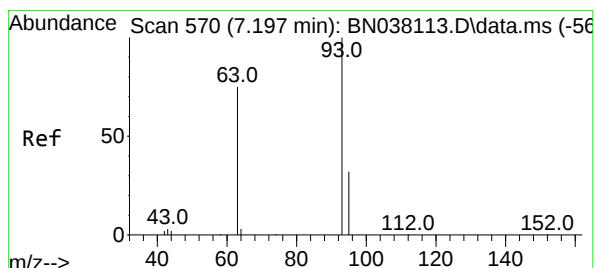
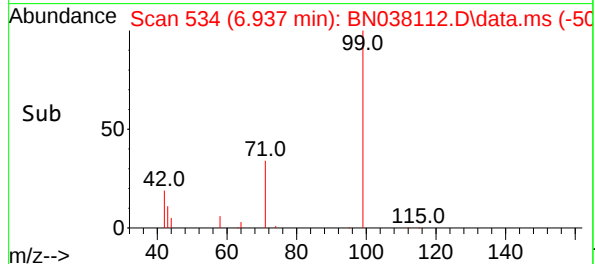
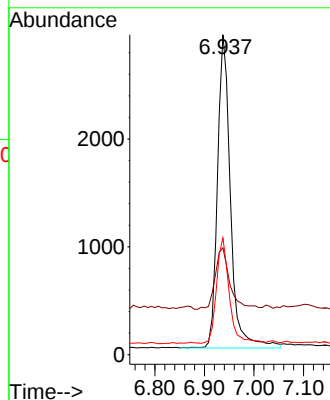
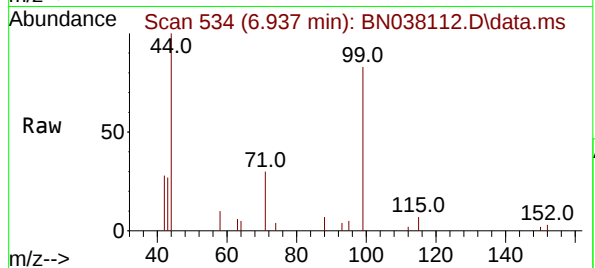




#5
Phenol-d6
Concen: 0.198 ng
RT: 6.937 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

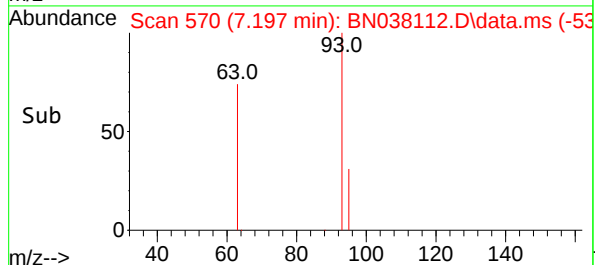
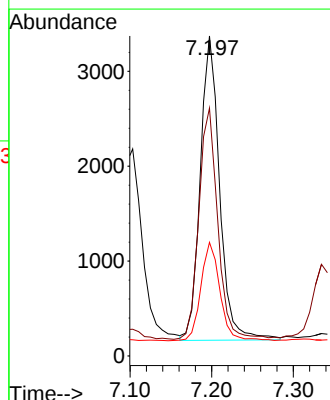
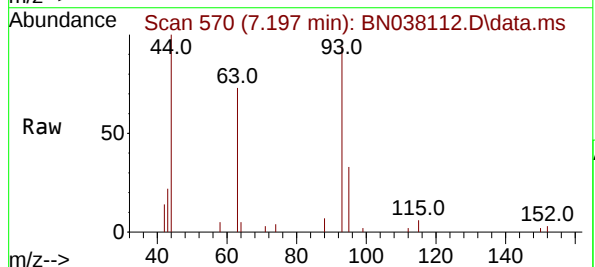
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

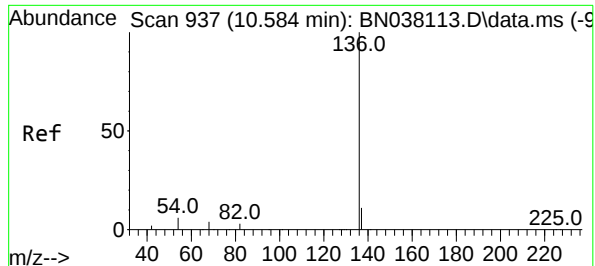
Tgt Ion: 99 Resp: 5284
Ion Ratio Lower Upper
99 100
42 22.1 16.6 24.8
71 32.7 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.197 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion: 93 Resp: 5312
Ion Ratio Lower Upper
93 100
63 74.3 59.3 88.9
95 32.2 25.2 37.8

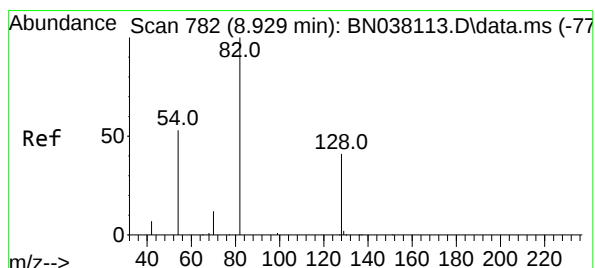
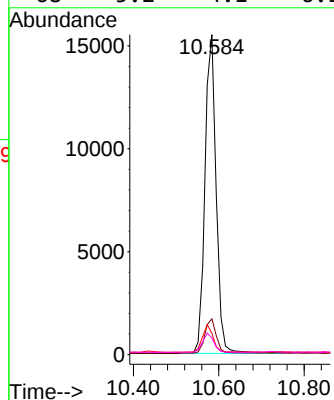
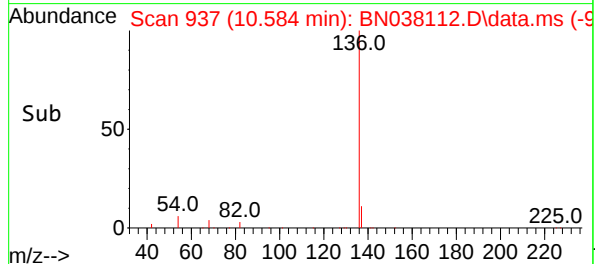
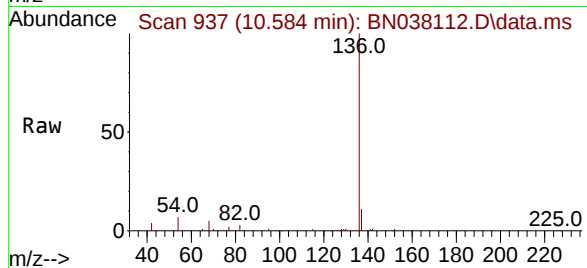




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

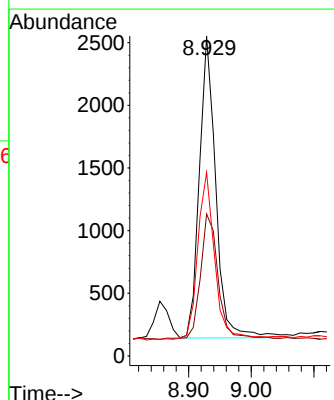
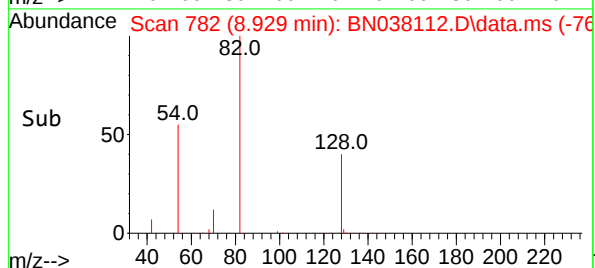
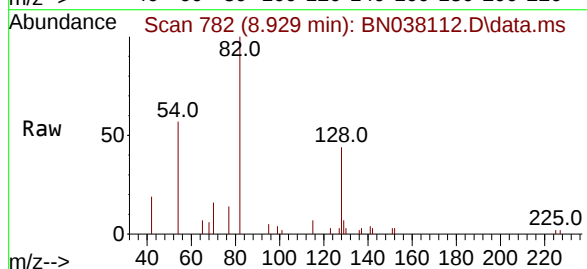
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

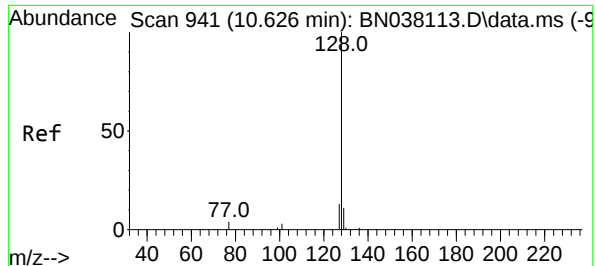
Tgt Ion:	136	Resp:	28183
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	6.6	5.2	7.8
68	5.2	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.194 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion:	82	Resp:	4403
Ion	Ratio	Lower	Upper
82	100		
128	44.4	34.1	51.1
54	57.3	43.5	65.3





#9

Naphthalene

Concen: 0.199 ng

RT: 10.626 min Scan# 941

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

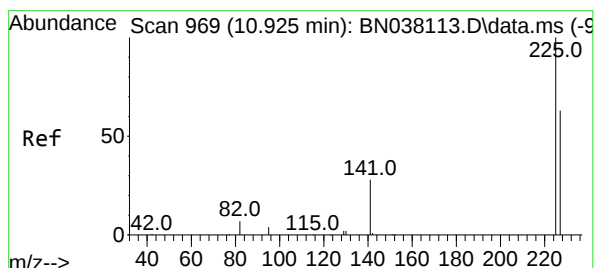
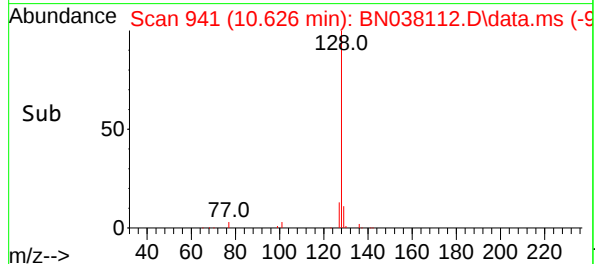
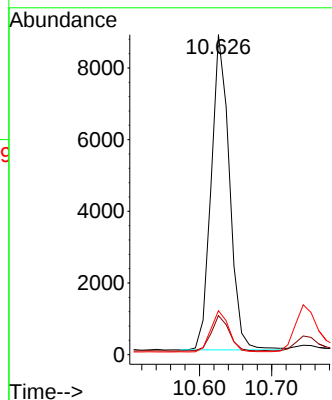
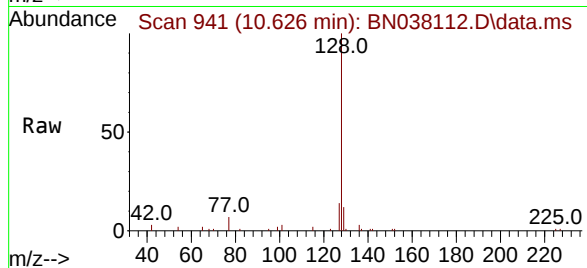
Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

Tgt Ion:	128	Resp:	15455
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.1	13.7
127	13.8	10.5	15.7



#10

Hexachlorobutadiene

Concen: 0.201 ng

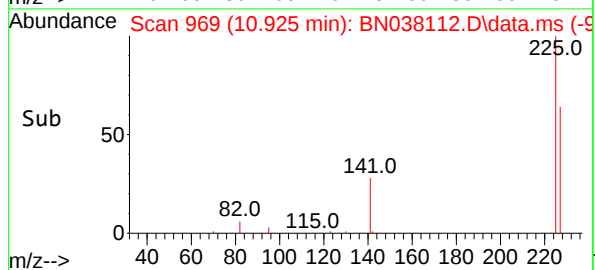
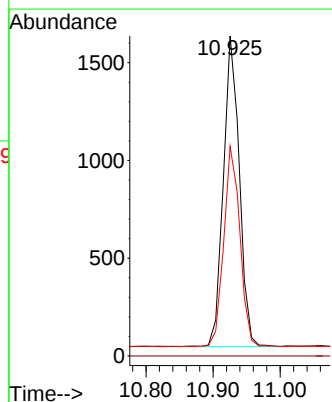
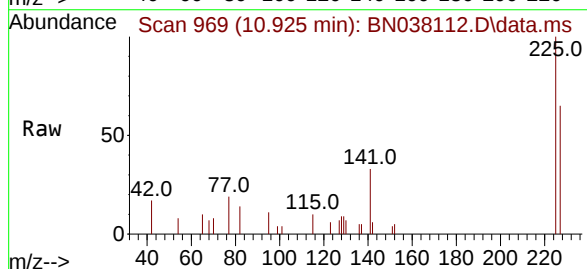
RT: 10.925 min Scan# 969

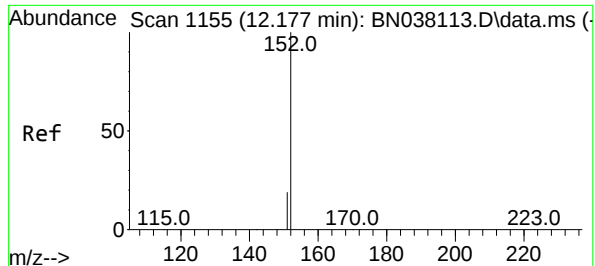
Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Tgt Ion:	225	Resp:	2632
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.1	50.3	75.5

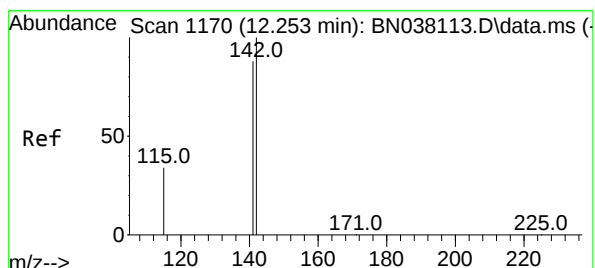
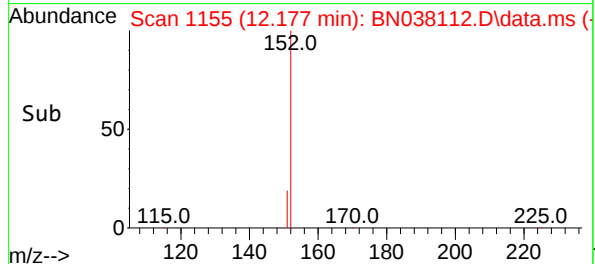
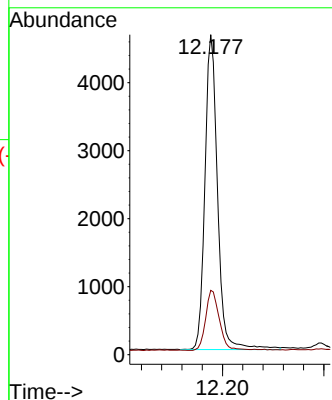
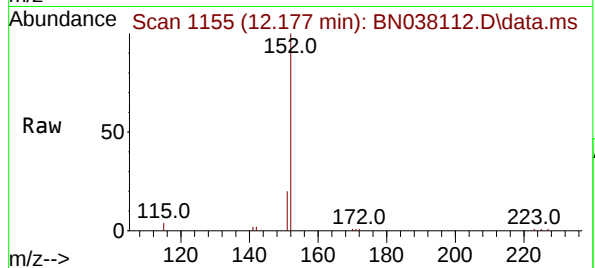




#11
2-Methylnaphthalene-d10
Concen: 0.199 ng
RT: 12.177 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

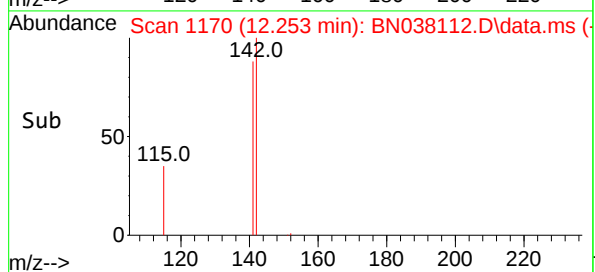
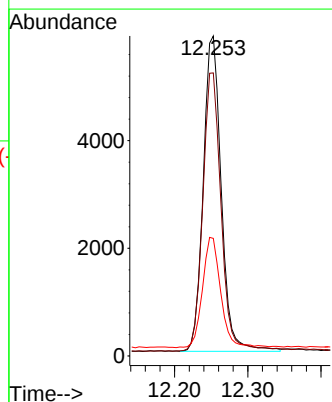
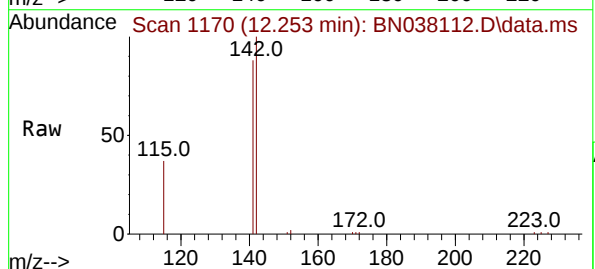
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BNA_N
ClientSampleId :
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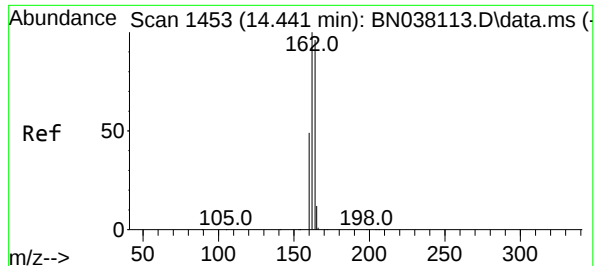
Tgt Ion:152 Resp: 8012
Ion Ratio Lower Upper
152 100
151 20.7 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.194 ng
RT: 12.253 min Scan# 1170
Delta R.T. 0.005 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion:142 Resp: 10027
Ion Ratio Lower Upper
142 100
141 88.4 70.3 105.5
115 36.8 27.8 41.6

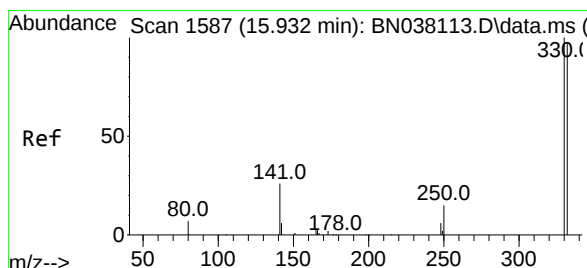
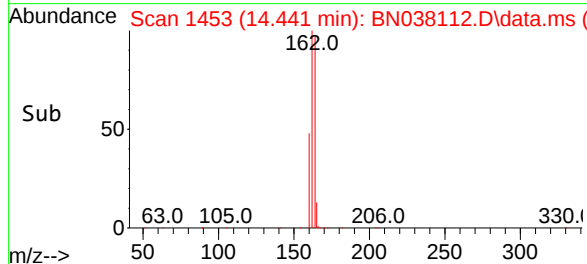
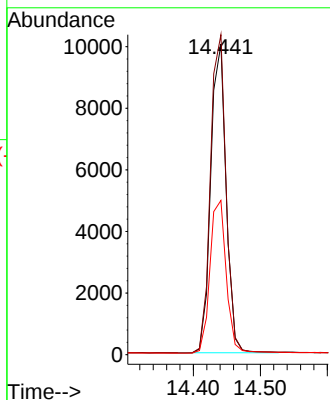
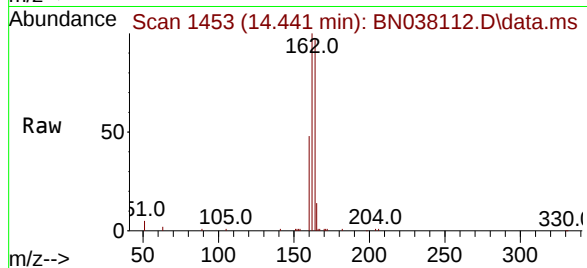




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

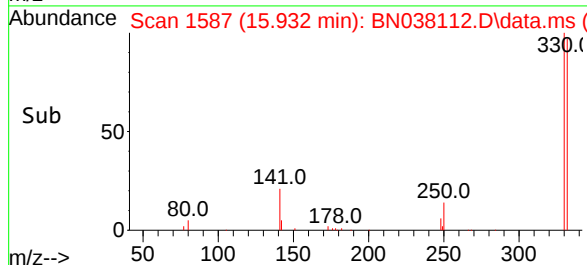
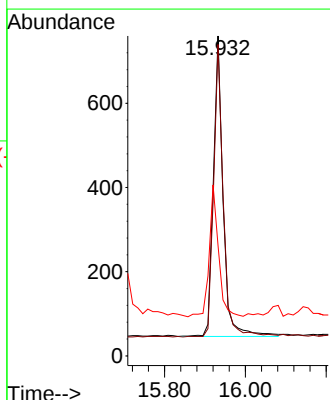
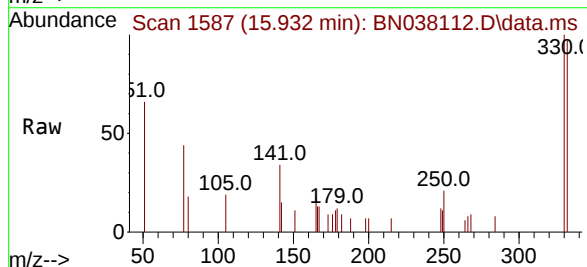
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

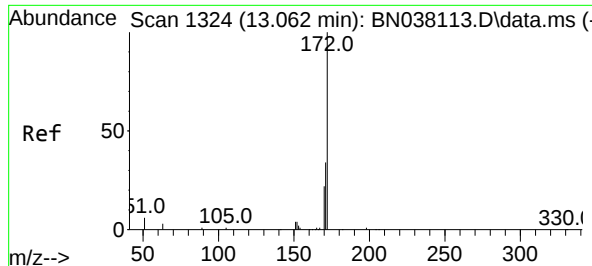
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	83.0	124.4
160	49.6	40.7	61.1



#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.6	114.8
141	41.5	34.1	51.1





#15

2-Fluorobiphenyl

Concen: 0.206 ng

RT: 13.062 min Scan# 1324

Delta R.T. 0.011 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

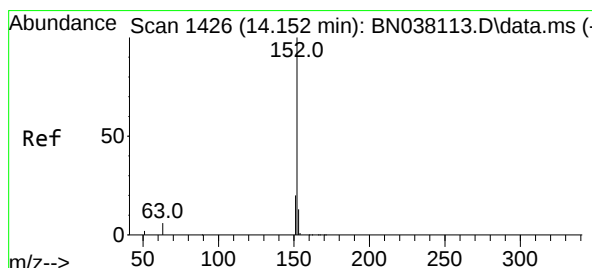
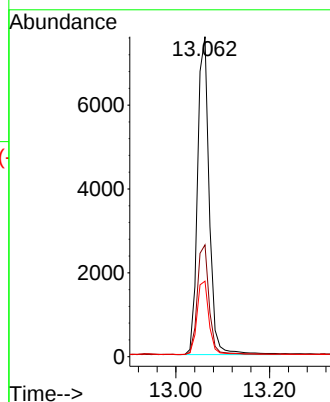
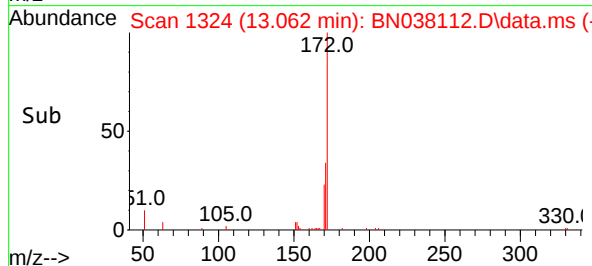
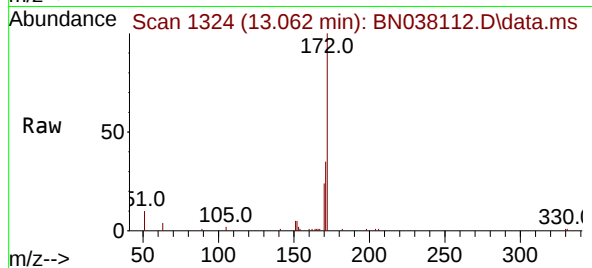
Tgt Ion:172 Resp: 13145

Ion Ratio Lower Upper

172 100

171 35.0 27.8 41.6

170 23.6 18.1 27.1



#16

Acenaphthylene

Concen: 0.191 ng

RT: 14.152 min Scan# 1426

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

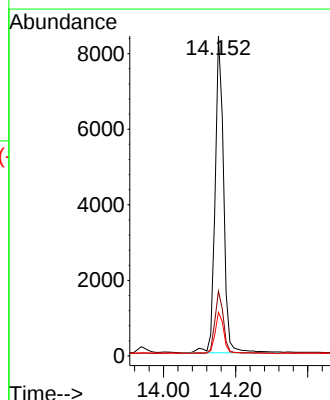
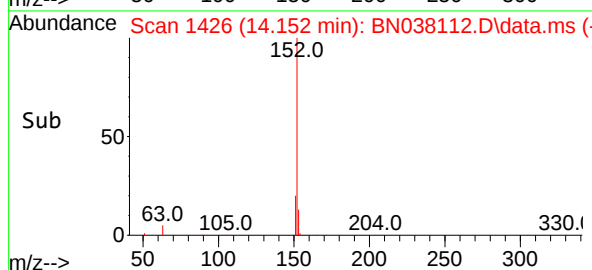
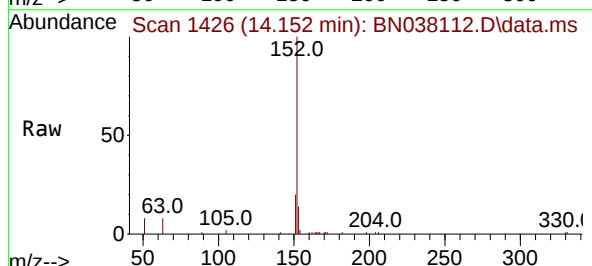
Tgt Ion:152 Resp: 13787

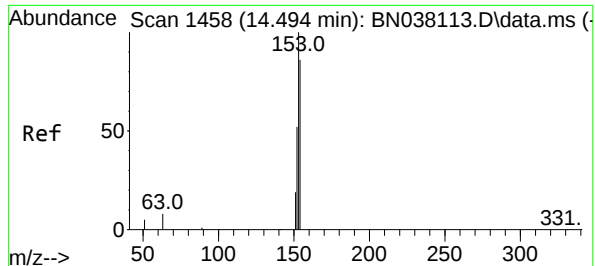
Ion Ratio Lower Upper

152 100

151 19.6 15.8 23.8

153 13.0 10.2 15.2

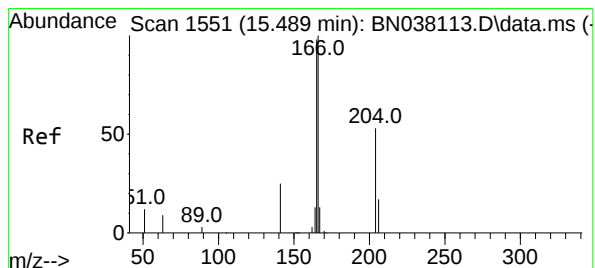
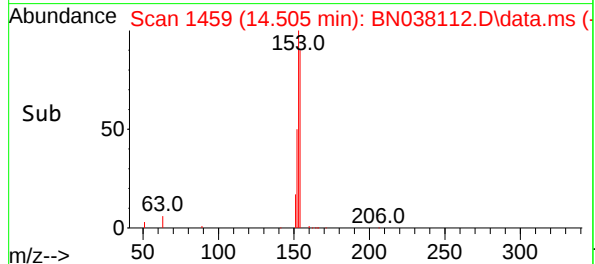
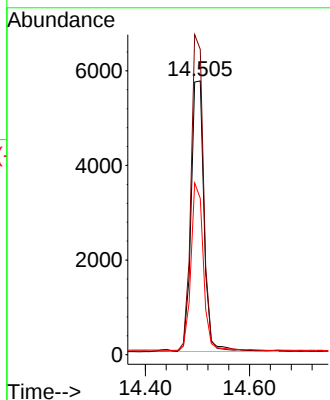
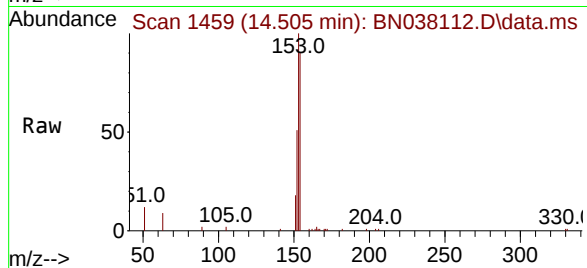




#17
Acenaphthene
Concen: 0.196 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.011 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

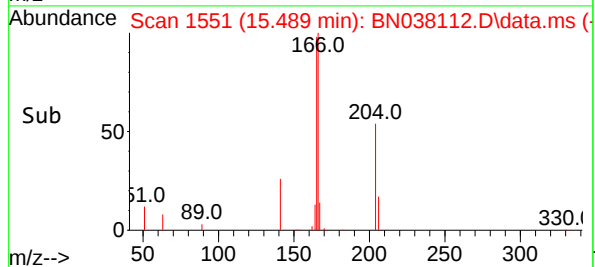
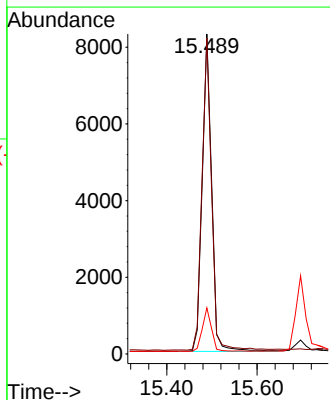
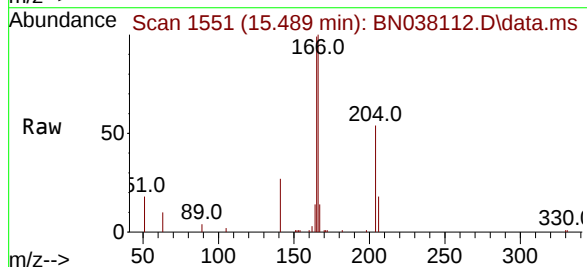
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

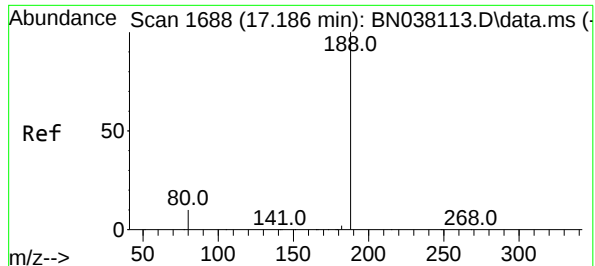
Tgt Ion:154 Resp: 9898
Ion Ratio Lower Upper
154 100
153 112.7 90.0 135.0
152 58.9 47.3 70.9



#18
Fluorene
Concen: 0.197 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion:166 Resp: 13019
Ion Ratio Lower Upper
166 100
165 98.6 79.0 118.4
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

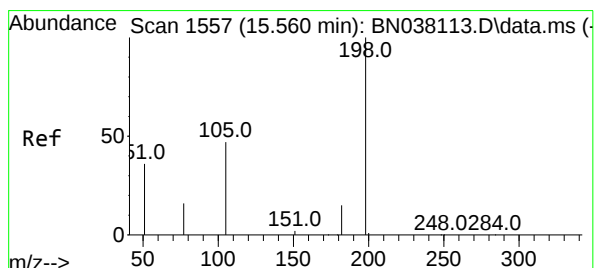
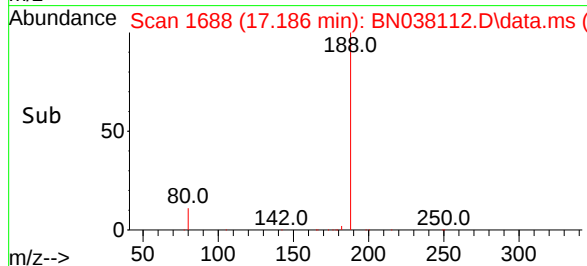
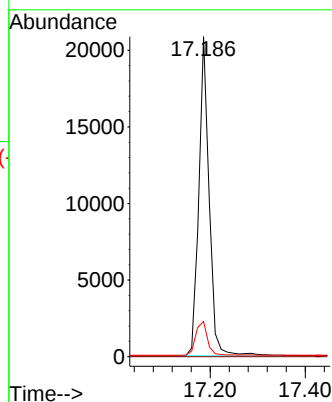
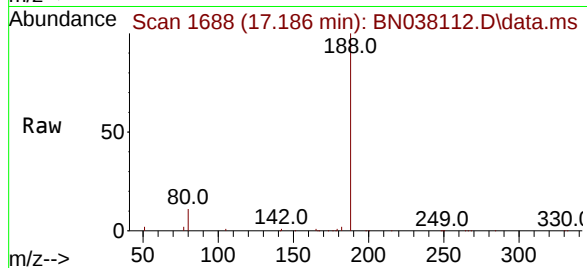
Tgt Ion:188 Resp: 31512

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.0 8.6 13.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.238 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

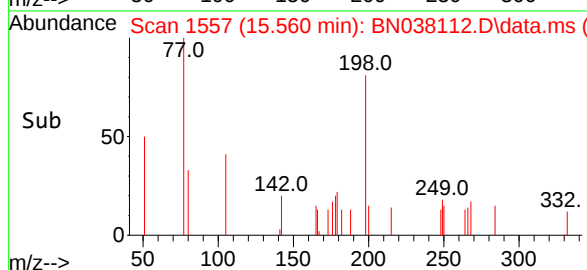
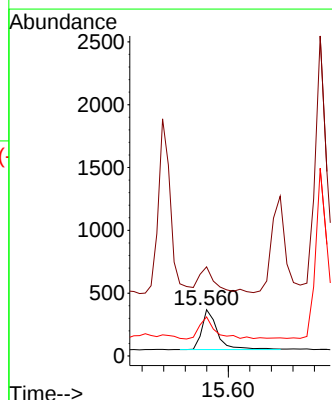
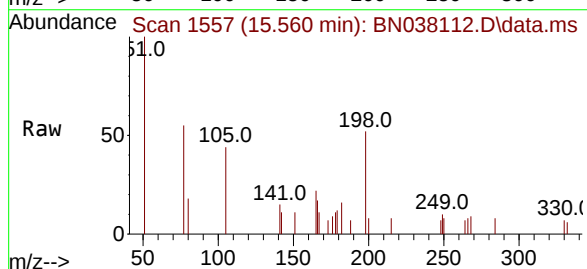
Tgt Ion:198 Resp: 639

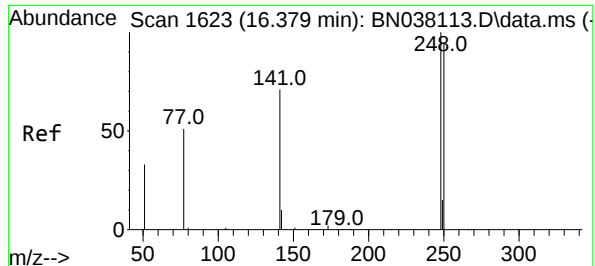
Ion Ratio Lower Upper

198 100

51 192.9 88.9 133.3#

105 84.5 49.2 73.8#

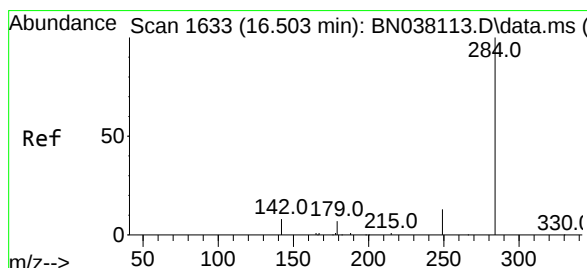
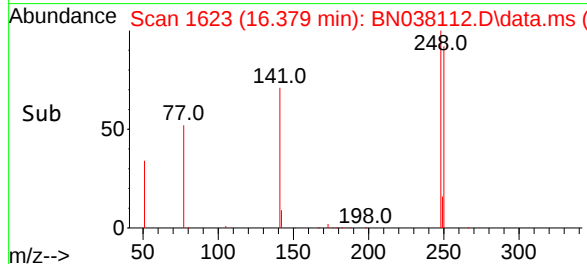
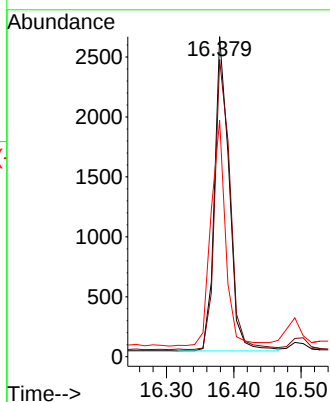
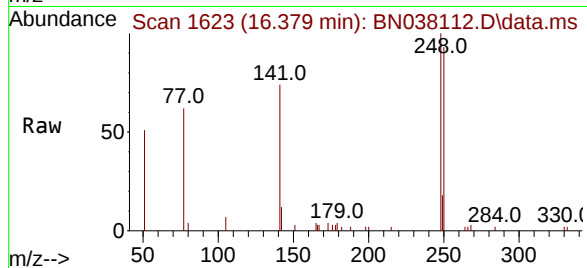




#21
4-Bromophenyl-phenylether
Concen: 0.191 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

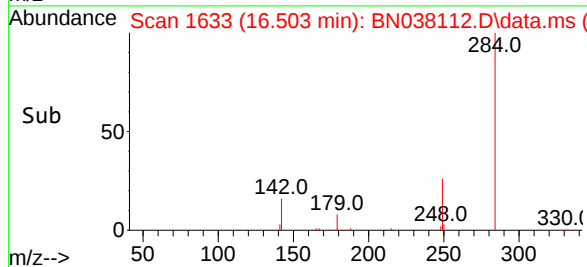
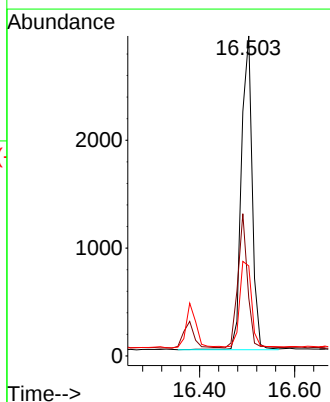
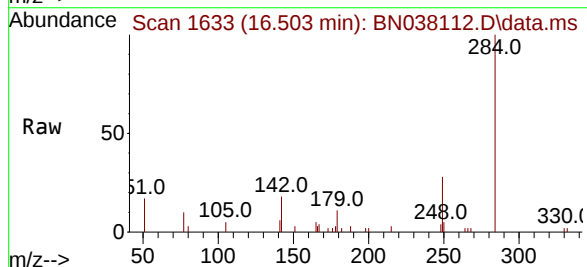
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

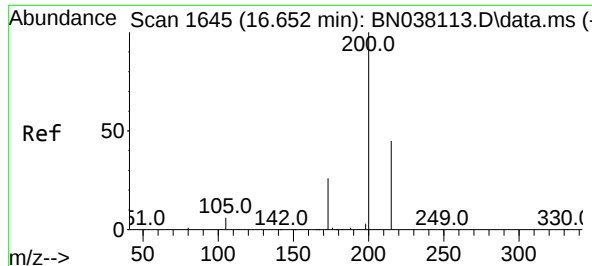
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.8	76.2	114.2
141	73.9	57.6	86.4



#22
Hexachlorobenzene
Concen: 0.196 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.0	30.5	45.7
249	30.1	23.5	35.3

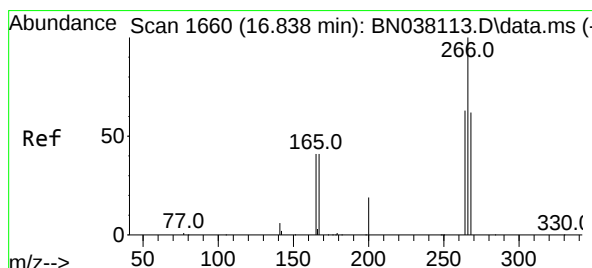
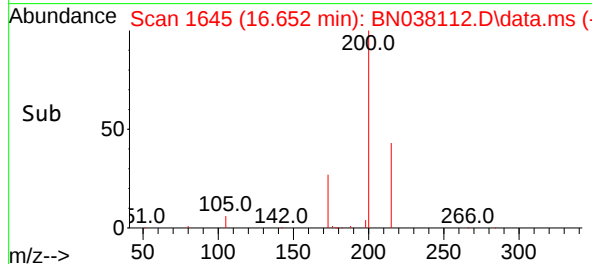
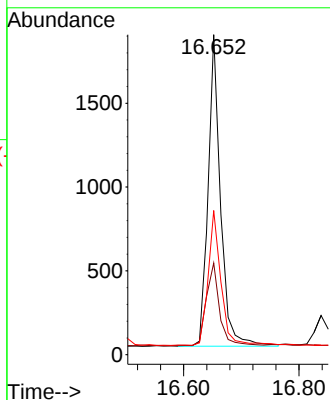
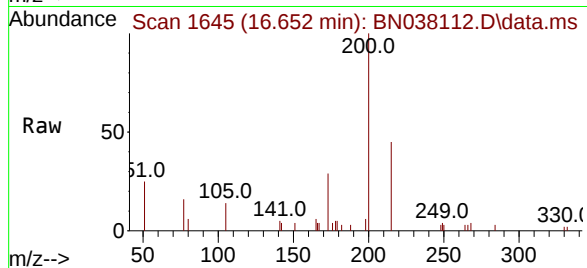




#23
Atrazine
Concen: 0.183 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

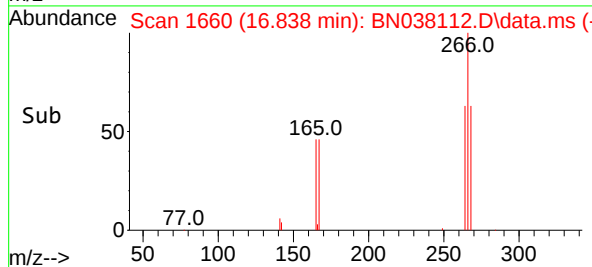
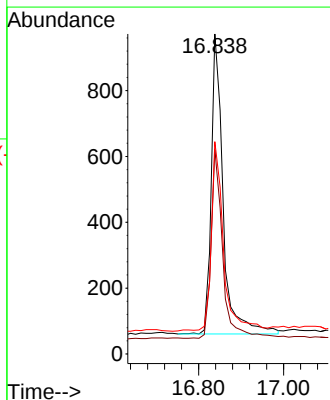
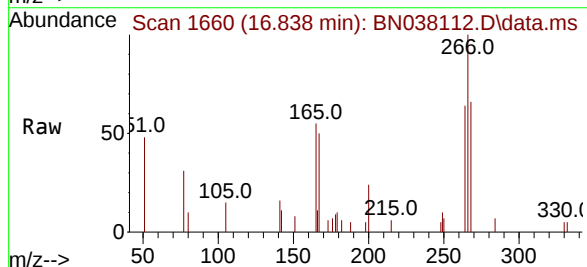
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

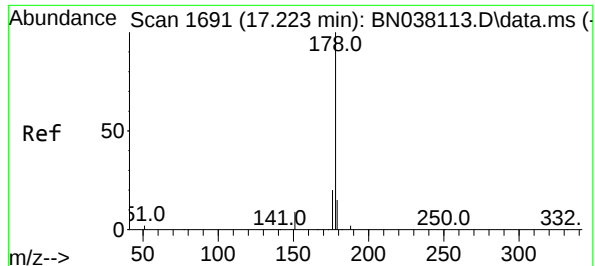
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.7	21.4	32.2
215	45.0	36.7	55.1



#24
Pentachlorophenol
Concen: 0.175 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.0	49.3	73.9
268	65.9	50.6	75.8

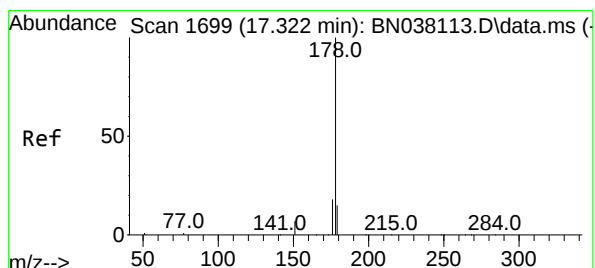
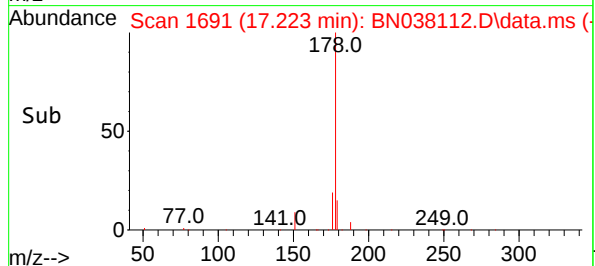
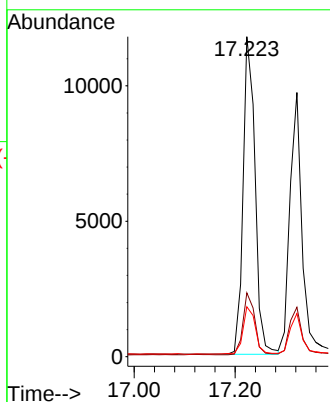
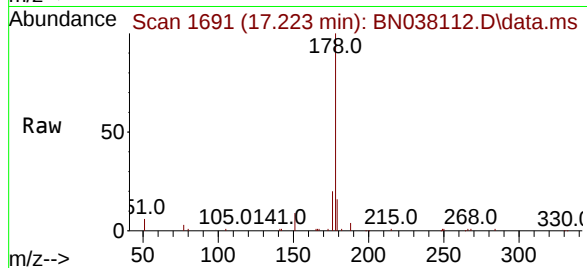




#25
Phenanthrene
Concen: 0.194 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

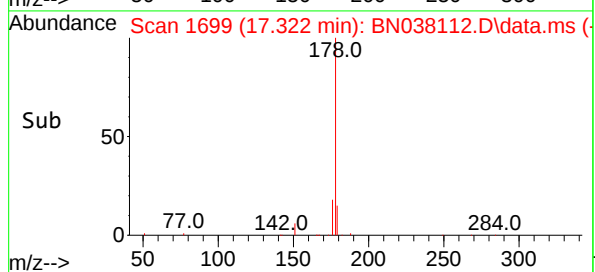
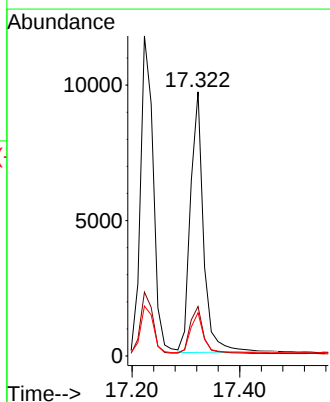
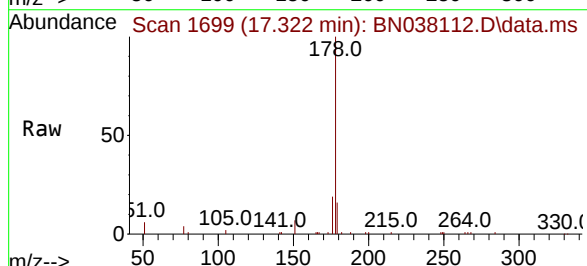
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

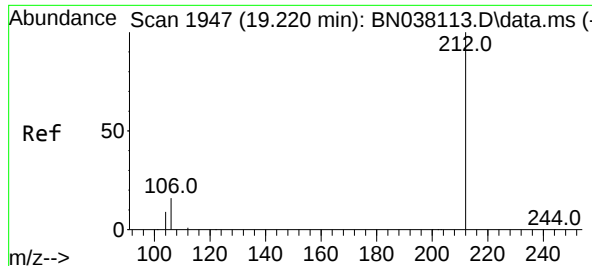
Tgt Ion:178 Resp: 19374
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.185 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion:178 Resp: 16201
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.5 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.192 ng

RT: 19.225 min Scan# 1947

Delta R.T. 0.005 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

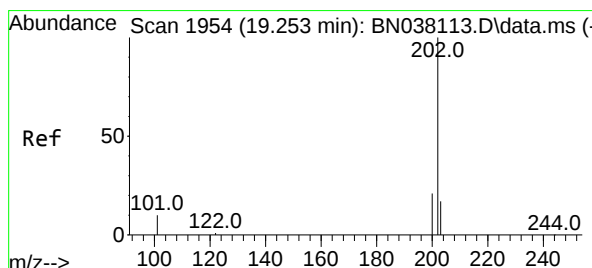
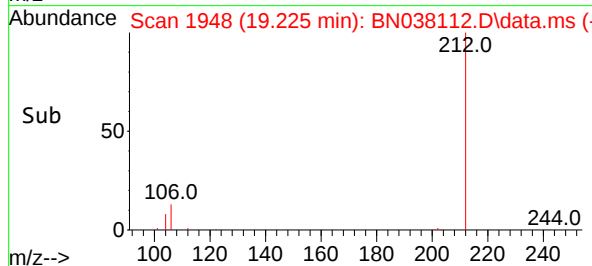
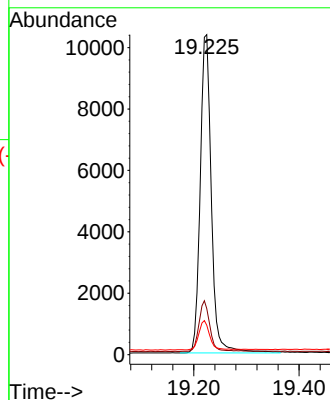
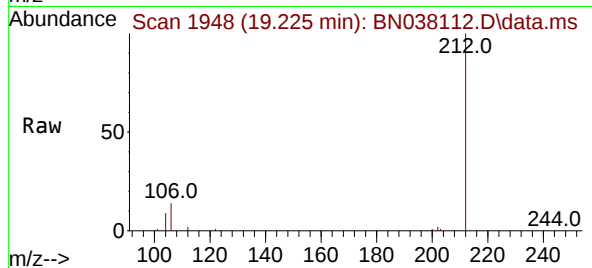
Tgt Ion:212 Resp: 15247

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.0 7.1 10.7



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

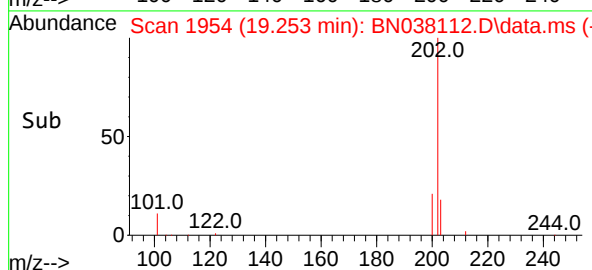
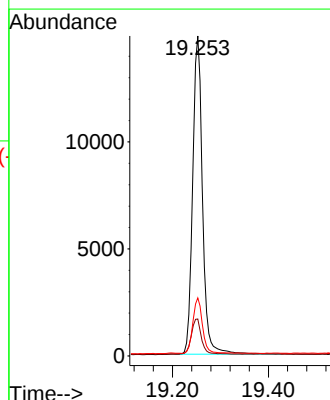
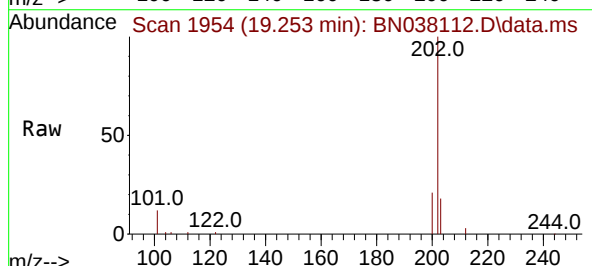
Tgt Ion:202 Resp: 21232

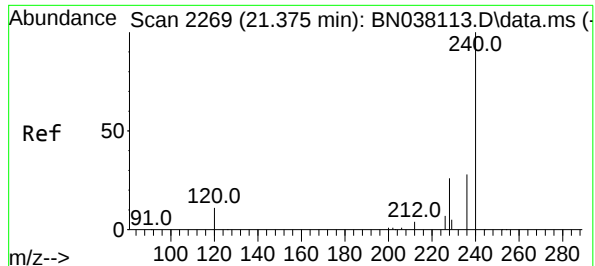
Ion Ratio Lower Upper

202 100

101 11.6 9.4 14.2

203 17.2 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

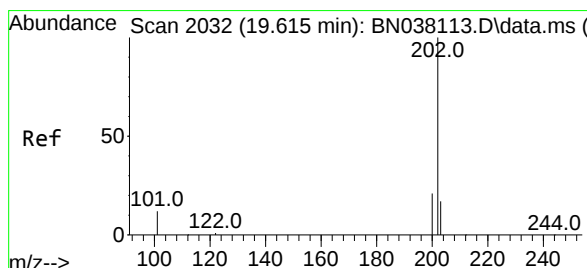
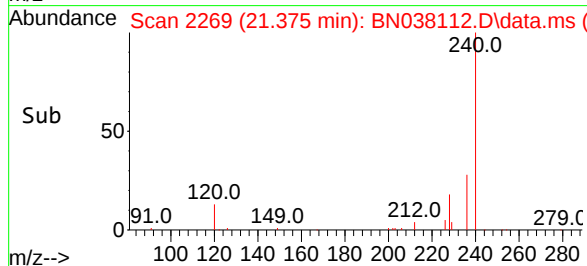
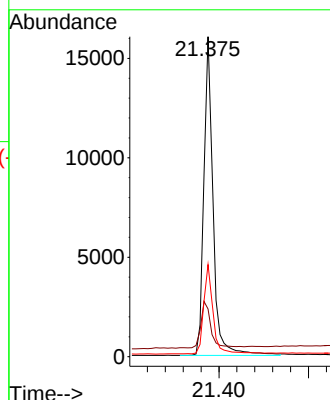
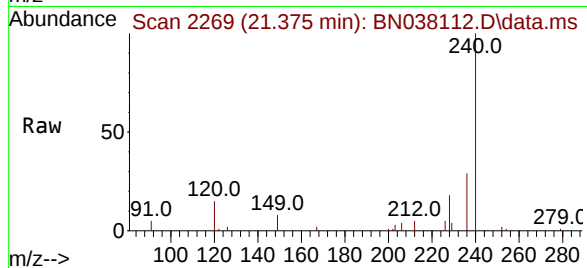
Tgt Ion:240 Resp: 23080

Ion Ratio Lower Upper

240 100

120 14.9 10.7 16.1

236 28.8 23.1 34.7



#30

Pyrene

Concen: 0.205 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

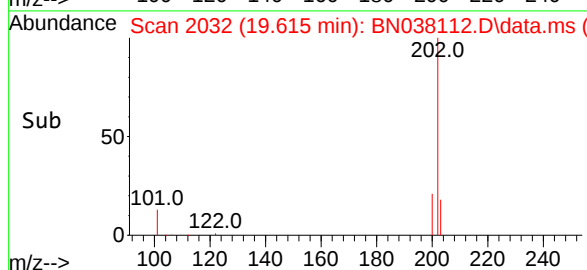
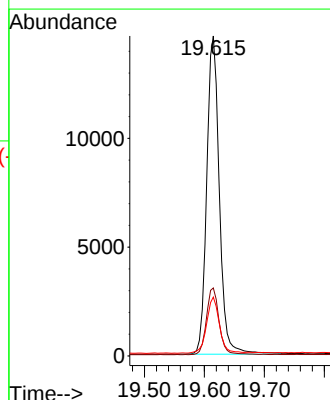
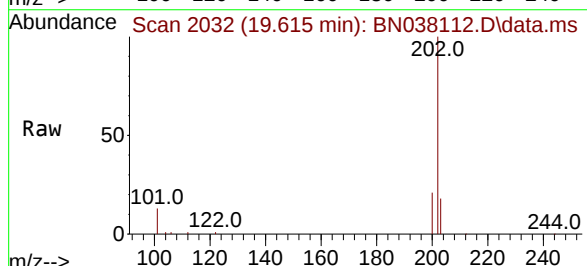
Tgt Ion:202 Resp: 21387

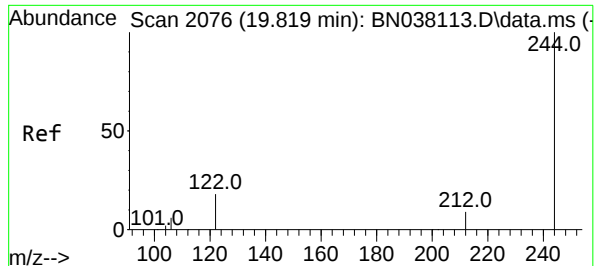
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.2

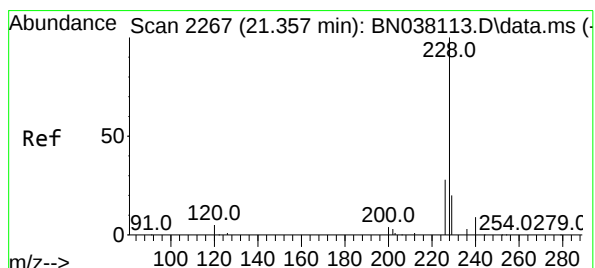
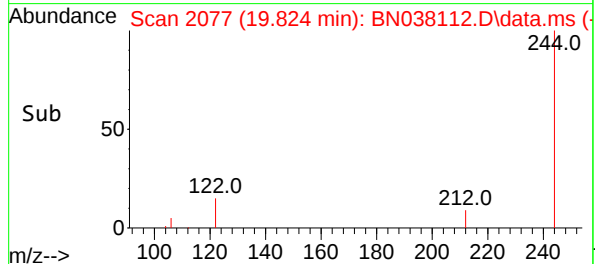
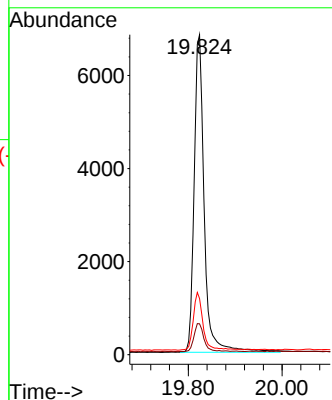
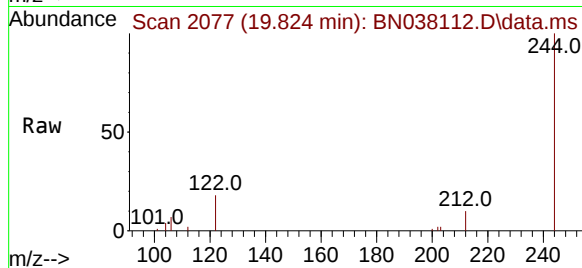




#31
Terphenyl-d14
Concen: 0.203 ng
RT: 19.824 min Scan# 2076
Delta R.T. 0.005 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

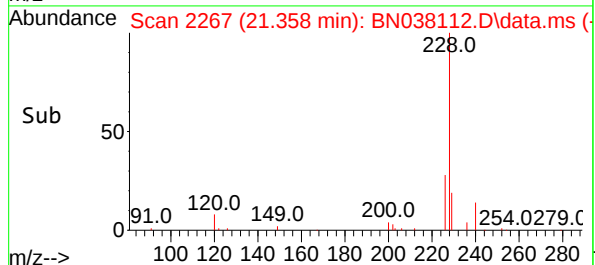
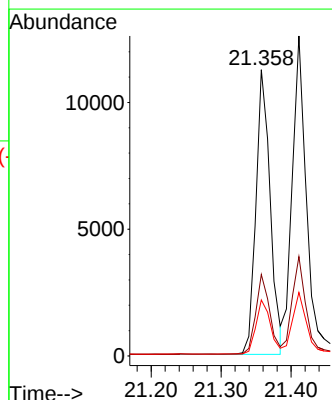
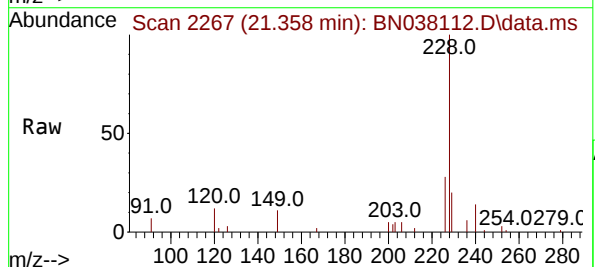
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

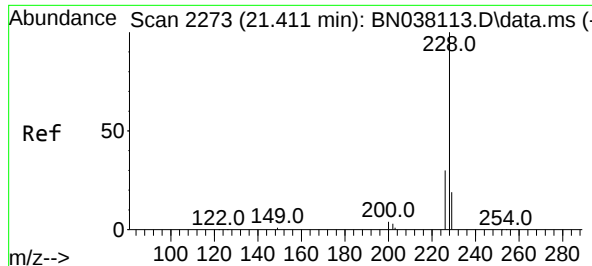
Tgt Ion:244 Resp: 10170
Ion Ratio Lower Upper
244 100
212 9.6 7.8 11.6
122 17.6 15.2 22.8



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038112.D
Acq: 28 Oct 2025 13:36

Tgt Ion:228 Resp: 15917
Ion Ratio Lower Upper
228 100
226 28.5 22.2 33.4
229 19.5 15.8 23.8





#33

Chrysene

Concen: 0.205 ng

RT: 21.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

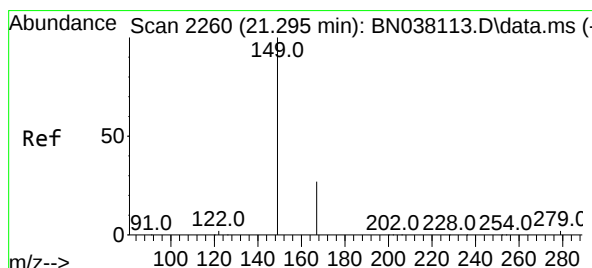
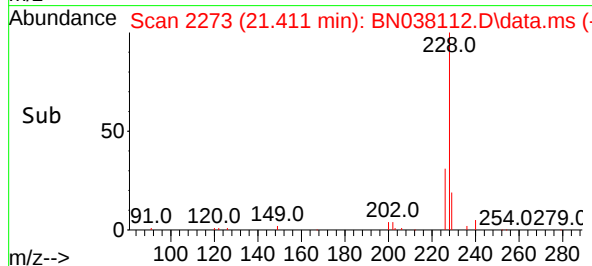
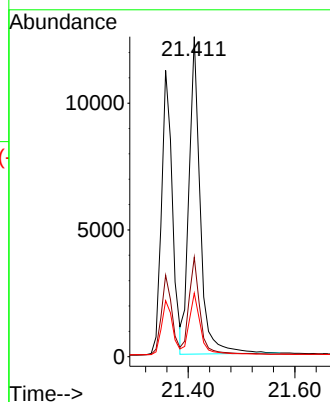
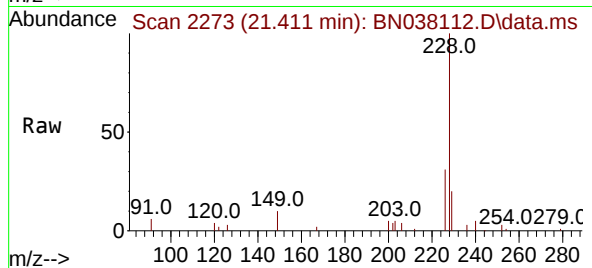
Tgt Ion:228 Resp: 18301

Ion Ratio Lower Upper

228 100

226 31.1 24.3 36.5

229 19.9 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.242 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

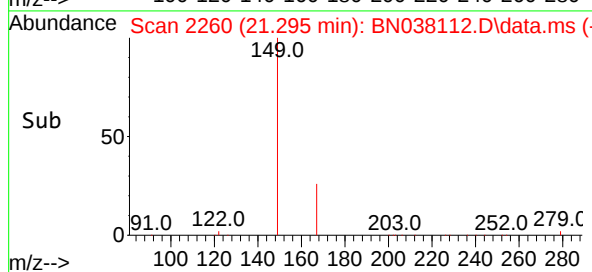
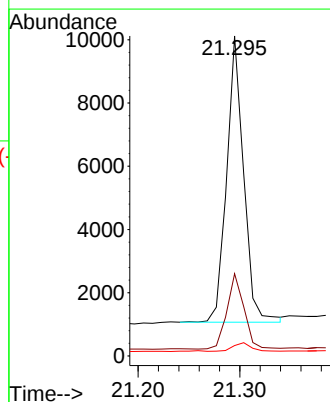
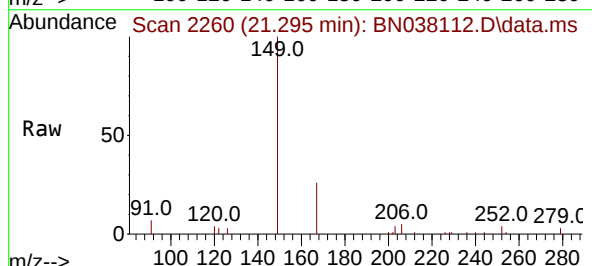
Tgt Ion:149 Resp: 10496

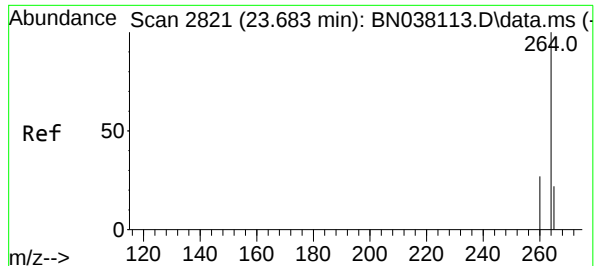
Ion Ratio Lower Upper

149 100

167 26.3 21.1 31.7

279 3.1 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.683 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

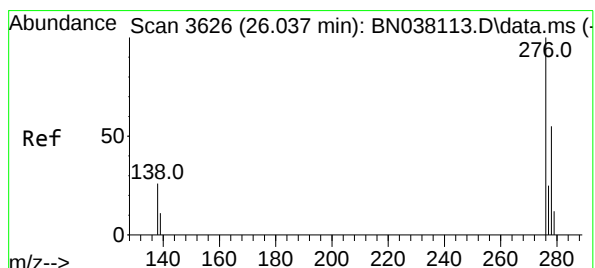
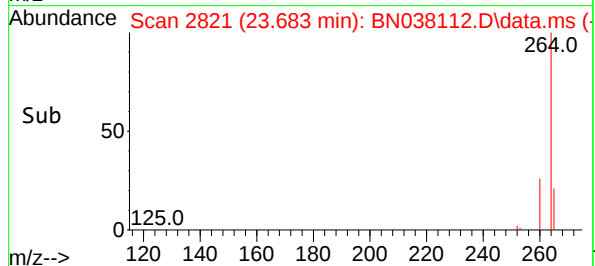
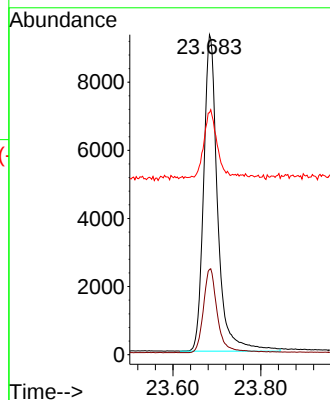
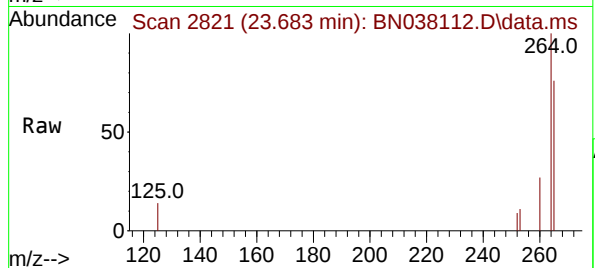
Tgt Ion:264 Resp: 20598

Ion Ratio Lower Upper

264 100

260 26.6 21.8 32.8

265 75.6 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.184 ng

RT: 26.039 min Scan# 3627

Delta R.T. 0.006 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

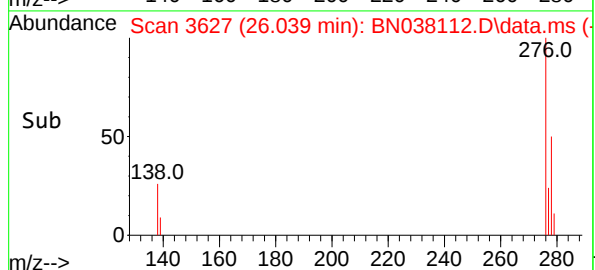
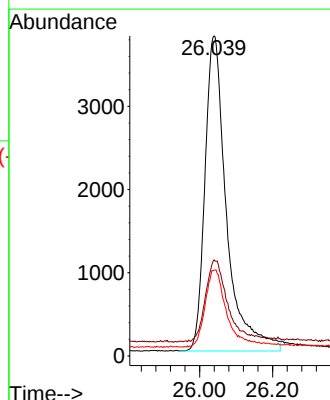
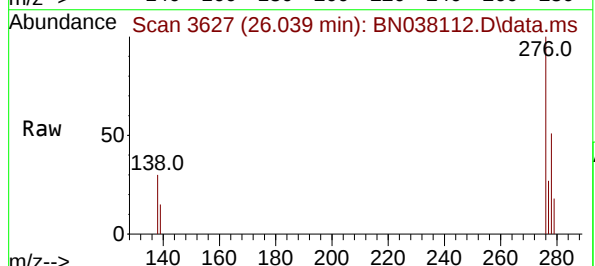
Tgt Ion:276 Resp: 15575

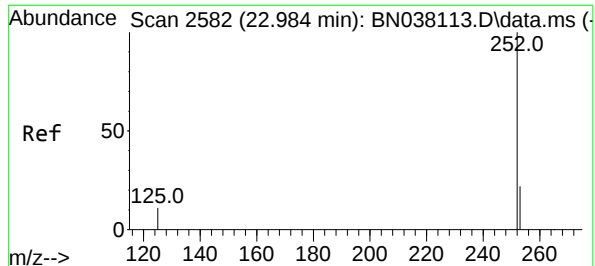
Ion Ratio Lower Upper

276 100

138 25.6 21.4 32.0

277 24.2 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 0.180 ng

RT: 22.984 min Scan# 2582

Delta R.T. 0.003 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

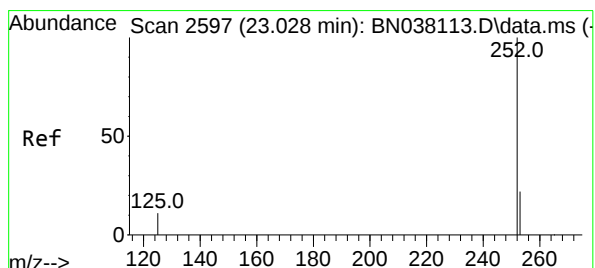
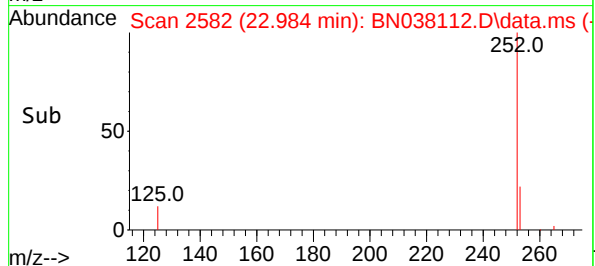
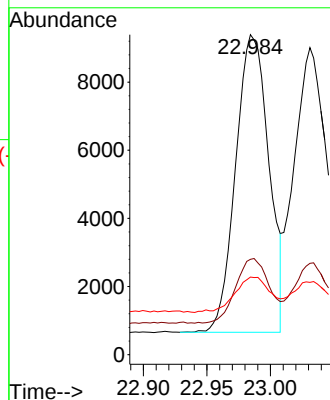
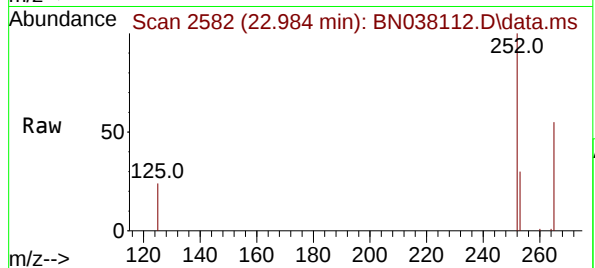
Tgt Ion:252 Resp: 15888

Ion Ratio Lower Upper

252 100

253 29.8 20.9 31.3

125 24.3 14.1 21.1#



#38

Benzo(k)fluoranthene

Concen: 0.185 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.003 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

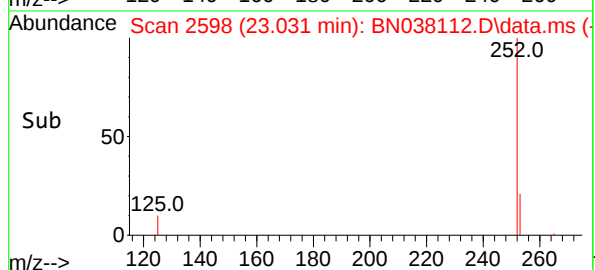
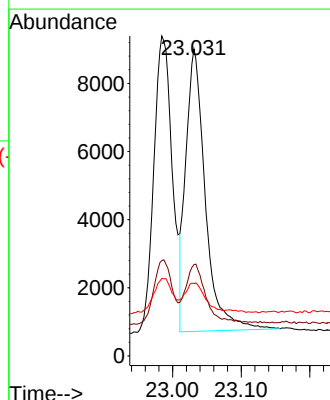
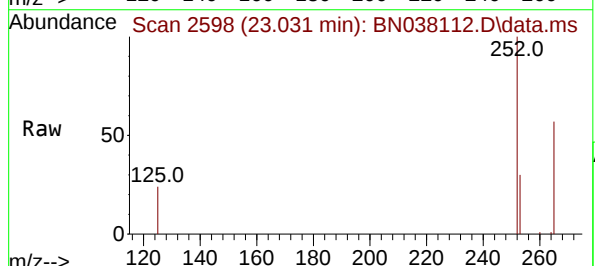
Tgt Ion:252 Resp: 16371

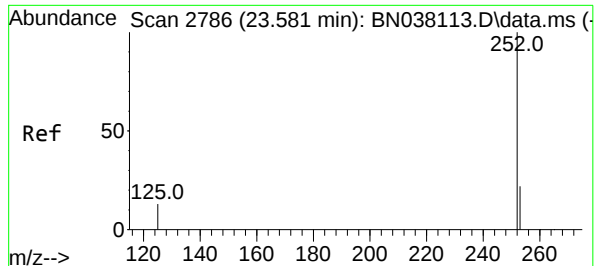
Ion Ratio Lower Upper

252 100

253 29.7 21.2 31.8

125 23.6 14.6 22.0#





#39

Benzo(a)pyrene

Concen: 0.186 ng

RT: 23.584 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

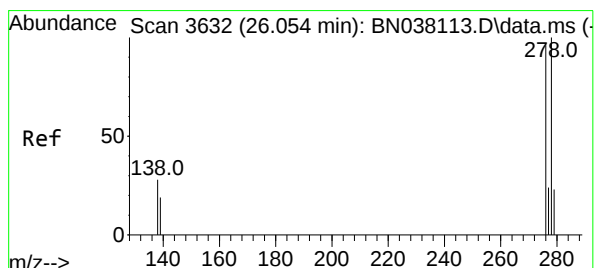
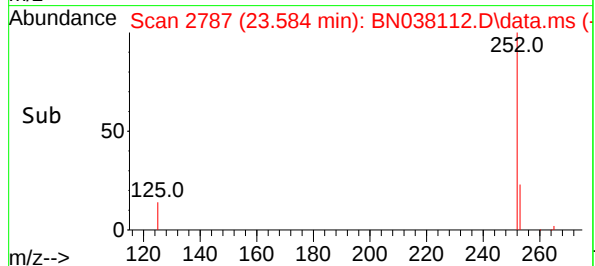
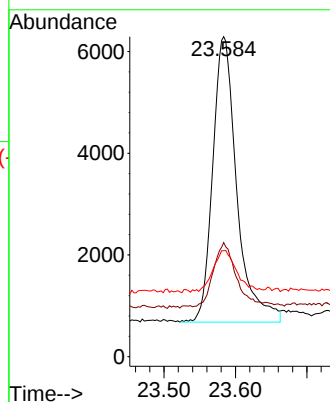
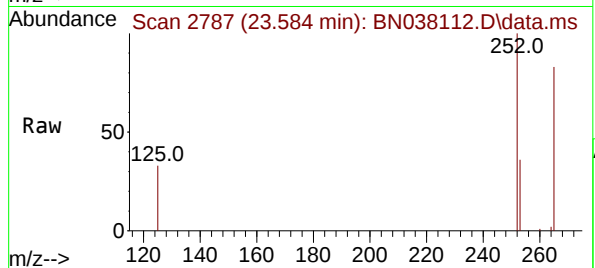
Tgt Ion:252 Resp: 13137

Ion Ratio Lower Upper

252 100

253 35.6 23.1 34.7#

125 33.1 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.182 ng

RT: 26.057 min Scan# 3633

Delta R.T. 0.009 min

Lab File: BN038112.D

Acq: 28 Oct 2025 13:36

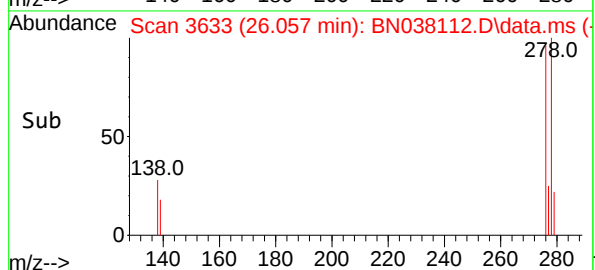
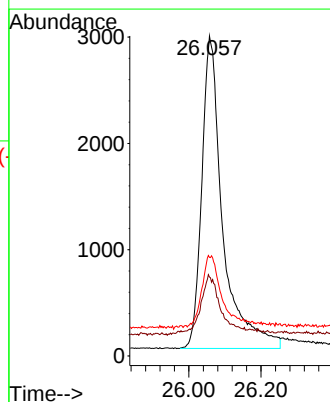
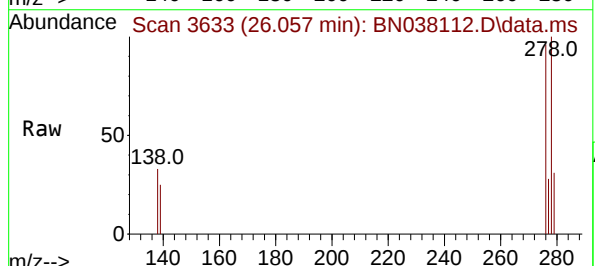
Tgt Ion:278 Resp: 11845

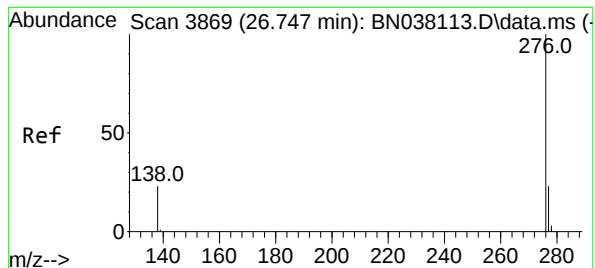
Ion Ratio Lower Upper

278 100

139 24.7 17.6 26.4

279 30.8 22.6 33.8





#41

Benzo(g,h,i)perylene

Concen: 0.189 ng

RT: 26.753 min Scan# 3871

Delta R.T. 0.003 min

Lab File: BN038112.D

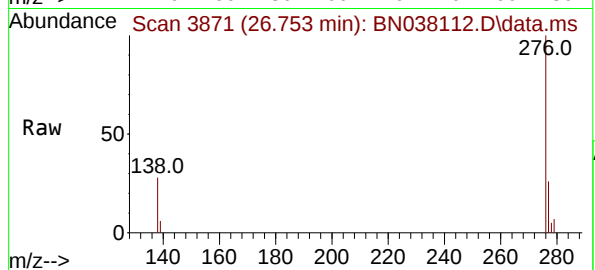
Acq: 28 Oct 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



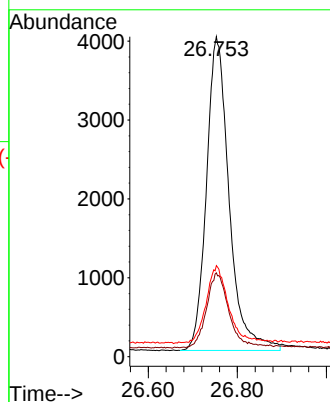
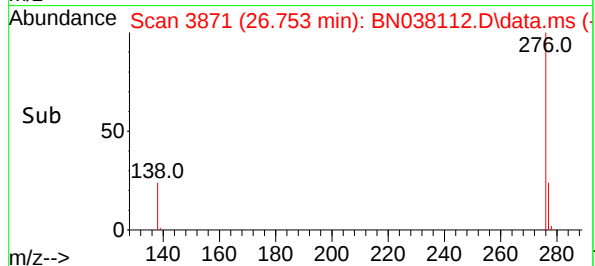
Tgt Ion:276 Resp: 14055

Ion Ratio Lower Upper

276 100

277 26.2 19.7 29.5

138 28.5 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038113.D
 Acq On : 28 Oct 2025 14:13
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Oct 28 17:31:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 17:15:13 2025
 Response via : Initial Calibration

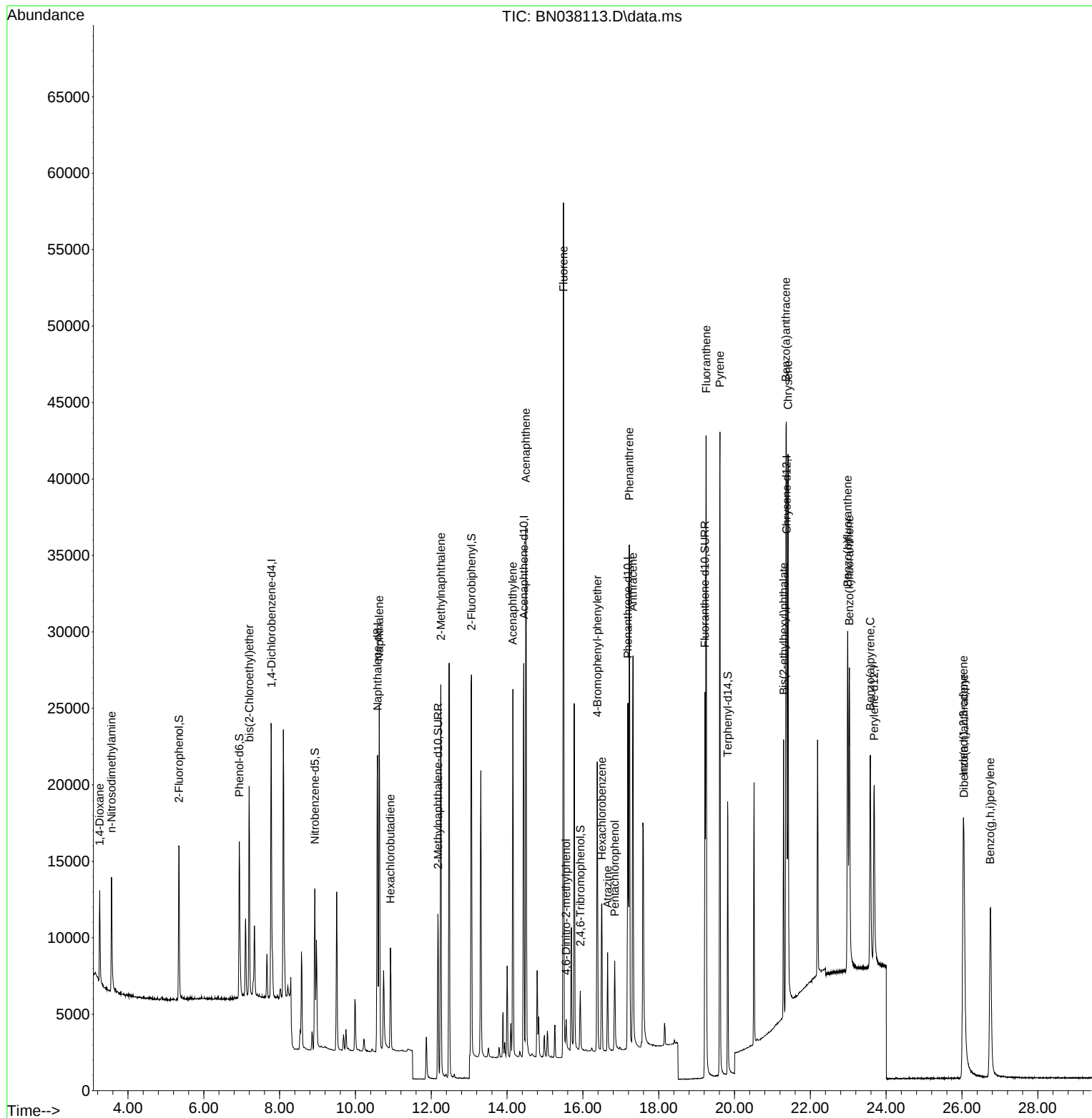
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.782	152	9189	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	27629	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	15496	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	29547	0.400	ng	0.00
29) Chrysene-d12	21.375	240	21529	0.400	ng	0.00
35) Perylene-d12	23.683	264	17966	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	8768	0.405	ng	0.00
5) Phenol-d6	6.937	99	10420	0.395	ng	0.00
8) Nitrobenzene-d5	8.929	82	8652	0.388	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	15231	0.386	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	2303	0.361	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	24443	0.394	ng	0.01
27) Fluoranthene-d10	19.220	212	28227	0.379	ng	0.00
31) Terphenyl-d14	19.819	244	18767	0.401	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.254	88	3895	0.410	ng	100
3) n-Nitrosodimethylamine	3.564	42	4910	0.402	ng	100
6) bis(2-Chloroethyl)ether	7.197	93	10402	0.402	ng	100
9) Naphthalene	10.626	128	29858	0.392	ng	100
10) Hexachlorobutadiene	10.925	225	5174	0.403	ng	# 100
12) 2-Methylnaphthalene	12.253	142	19577	0.386	ng	100
16) Acenaphthylene	14.152	152	26507	0.378	ng	100
17) Acenaphthene	14.494	154	18774	0.382	ng	100
18) Fluorene	15.489	166	24733	0.384	ng	100
20) 4,6-Dinitro-2-methylph...	15.560	198	1329	0.375	ng	100
21) 4-Bromophenyl-phenylether	16.379	248	7383	0.381	ng	100
22) Hexachlorobenzene	16.503	284	8778	0.398	ng	100
23) Atrazine	16.652	200	5175	0.365	ng	100
24) Pentachlorophenol	16.838	266	3182	0.335	ng	100
25) Phenanthrene	17.223	178	36093	0.385	ng	100
26) Anthracene	17.322	178	30869	0.376	ng	100
28) Fluoranthene	19.253	202	39664	0.378	ng	100
30) Pyrene	19.615	202	39644	0.408	ng	100
32) Benzo(a)anthracene	21.357	228	29230	0.381	ng	100
33) Chrysene	21.411	228	33214	0.398	ng	100
34) Bis(2-ethylhexyl)phtha...	21.295	149	15540	0.384	ng	100
36) Indeno(1,2,3-cd)pyrene	26.037	276	28812	0.390	ng	100
37) Benzo(b)fluoranthene	22.984	252	29283	0.381	ng	100
38) Benzo(k)fluoranthene	23.028	252	29088	0.376	ng	100
39) Benzo(a)pyrene	23.581	252	23635	0.384	ng	100
40) Dibenzo(a,h)anthracene	26.054	278	21487	0.378	ng	100
41) Benzo(g,h,i)perylene	26.747	276	25622	0.395	ng	100

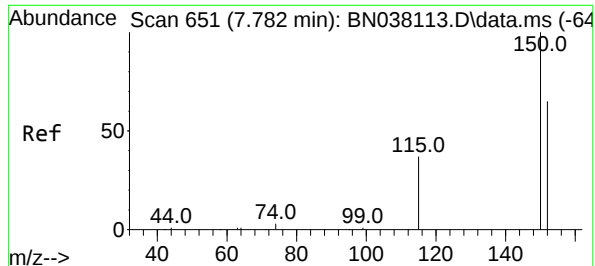
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038113.D
Acq On : 28 Oct 2025 14:13
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Oct 28 17:31:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 17:15:13 2025
Response via : Initial Calibration

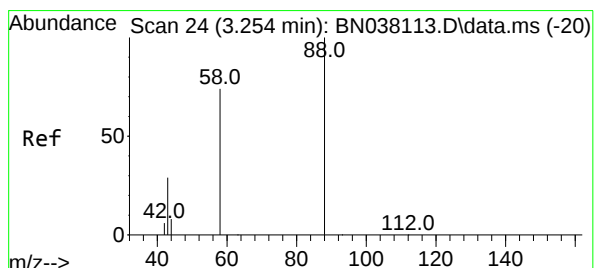
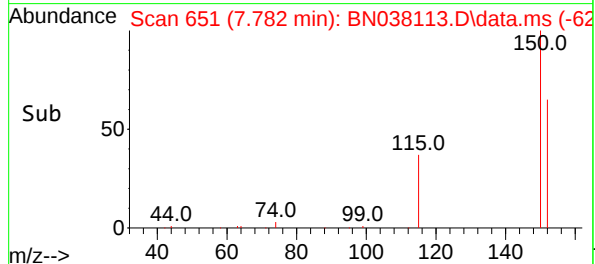
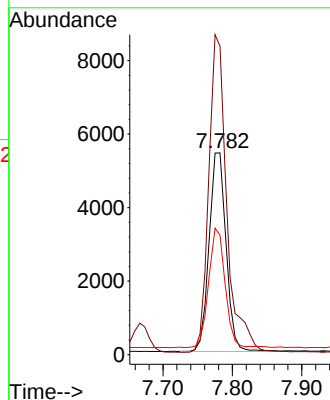
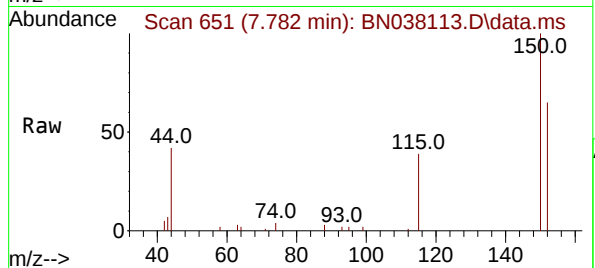




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.782 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

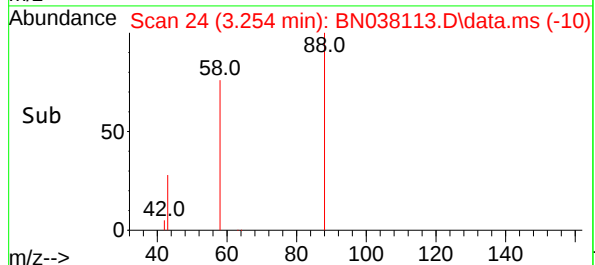
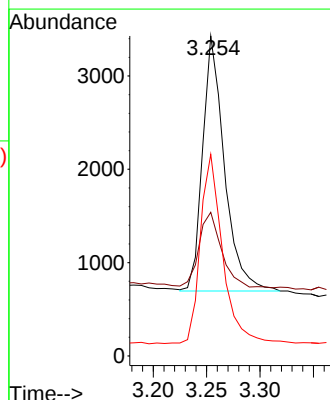
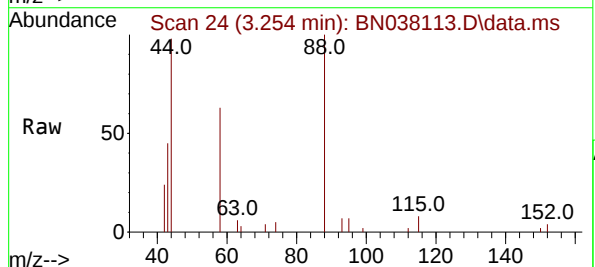
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

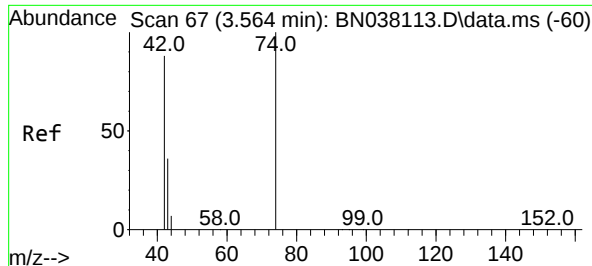
Tgt Ion:152 Resp: 9189
Ion Ratio Lower Upper
152 100
150 152.9 122.3 183.5
115 59.2 47.4 71.0



#2
1,4-Dioxane
Concen: 0.410 ng
RT: 3.254 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion: 88 Resp: 3895
Ion Ratio Lower Upper
88 100
43 30.4 24.3 36.5
58 75.5 60.4 90.6

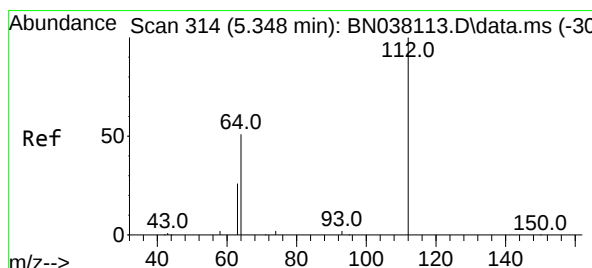
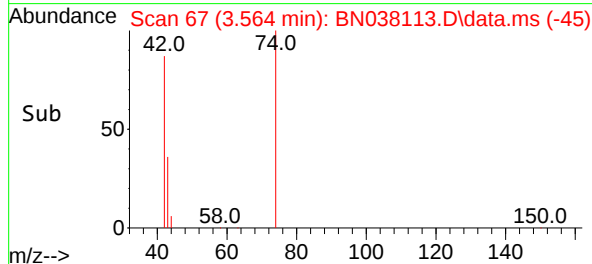
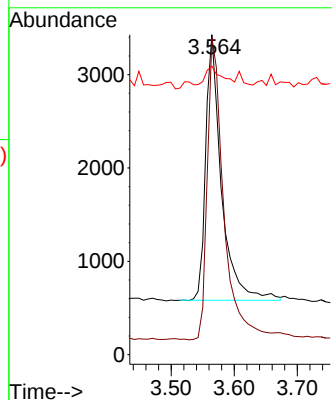
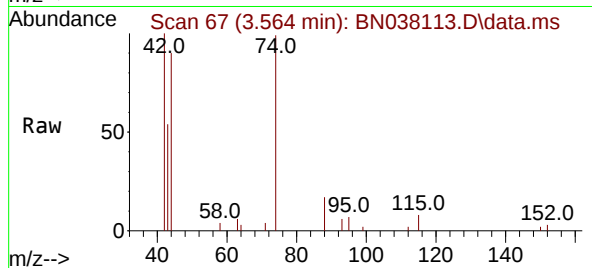




#3
n-Nitrosodimethylamine
Concen: 0.402 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

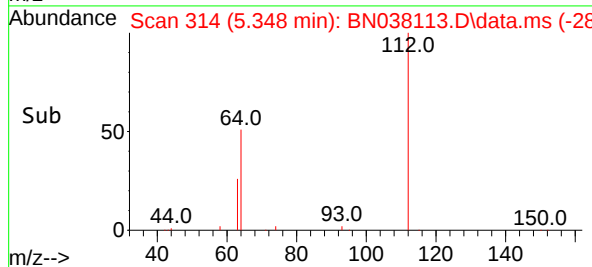
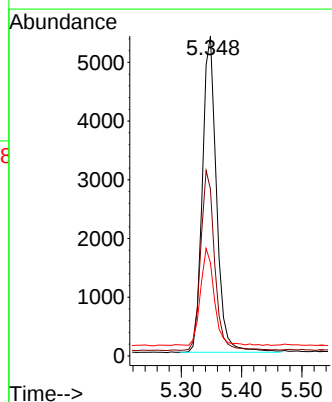
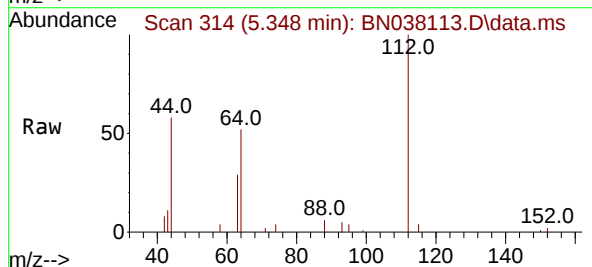
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

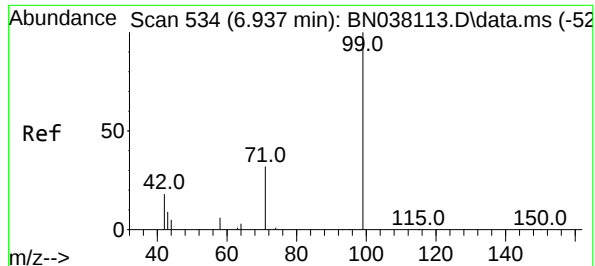
Tgt Ion: 42 Resp: 4910
Ion Ratio Lower Upper
42 100
74 121.1 96.8 145.2
44 6.7 5.3 7.9



#4
2-Fluorophenol
Concen: 0.405 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion: 112 Resp: 8768
Ion Ratio Lower Upper
112 100
64 56.7 45.4 68.0
63 29.0 23.2 34.8

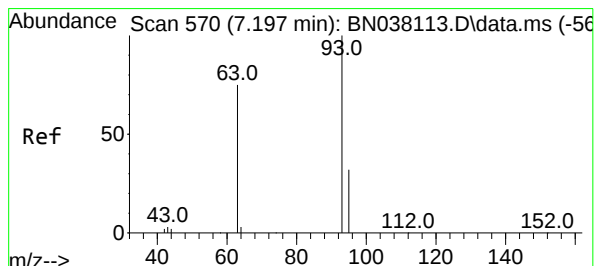
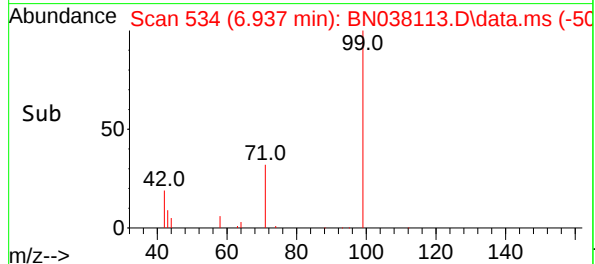
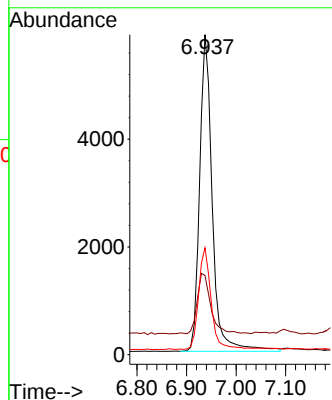
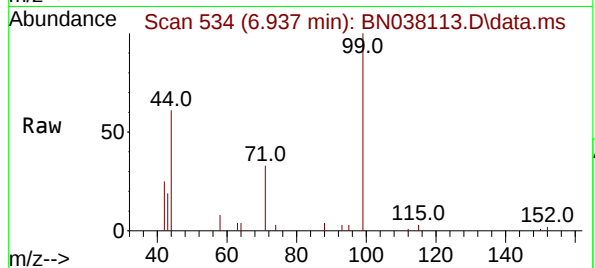




#5
Phenol-d6
Concen: 0.395 ng
RT: 6.937 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

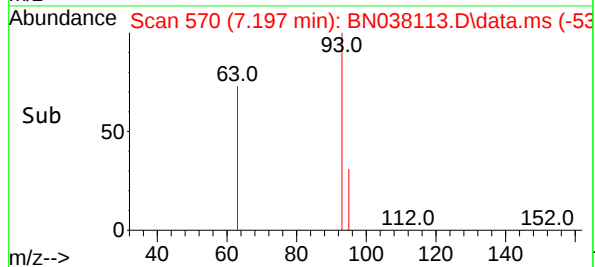
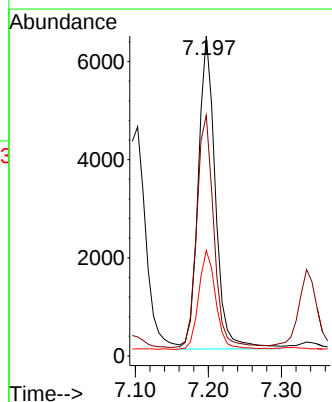
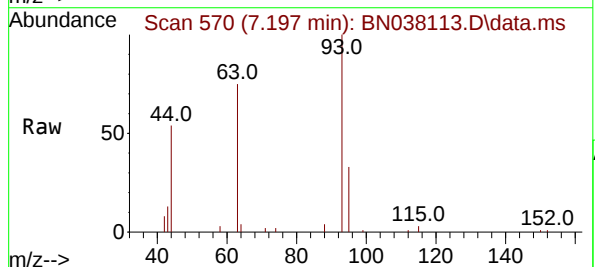
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

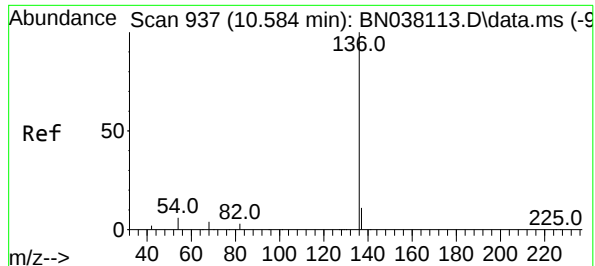
Tgt Ion: 99 Resp: 10420
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 31.8 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.197 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion: 93 Resp: 10402
Ion Ratio Lower Upper
93 100
63 73.7 59.3 88.9
95 31.4 25.2 37.8

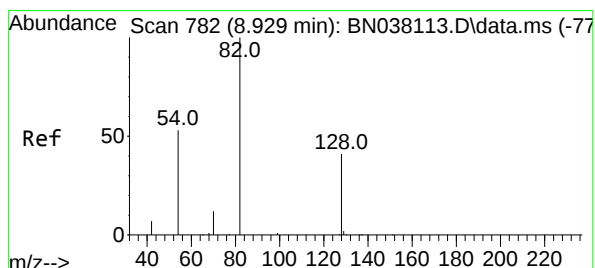
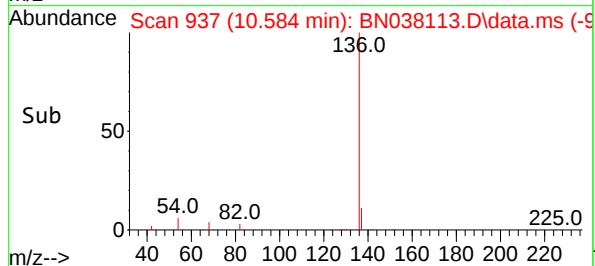
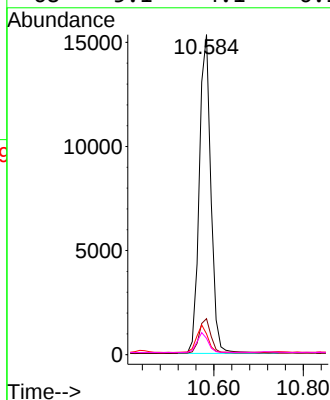
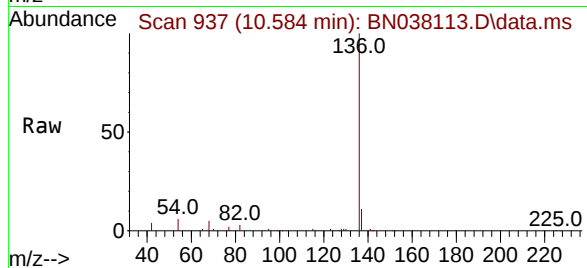




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

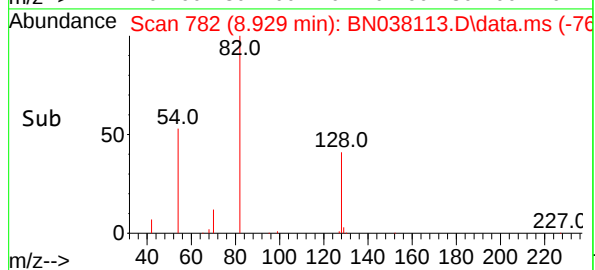
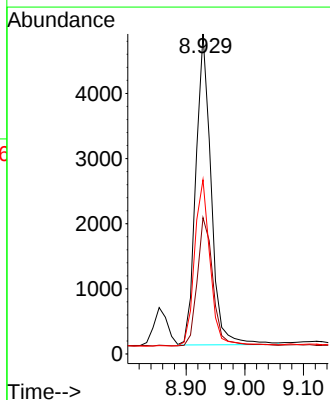
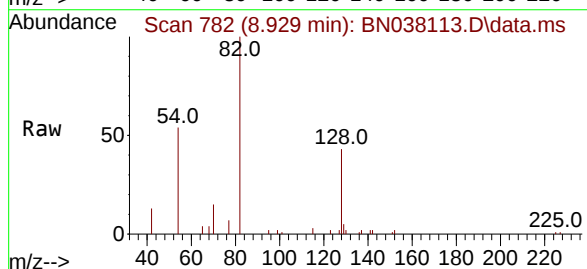
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

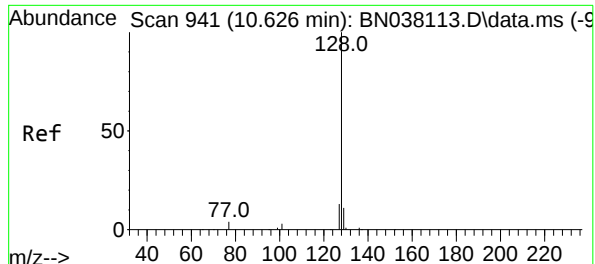
Tgt Ion:	136	Resp:	27629
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	6.5	5.2	7.8
68	5.1	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.929 min Scan# 782
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion:	82	Resp:	8652
Ion	Ratio	Lower	Upper
82	100		
128	42.6	34.1	51.1
54	54.4	43.5	65.3





#9

Naphthalene

Concen: 0.392 ng

RT: 10.626 min Scan# 941

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

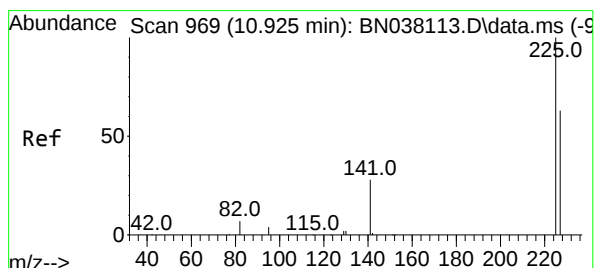
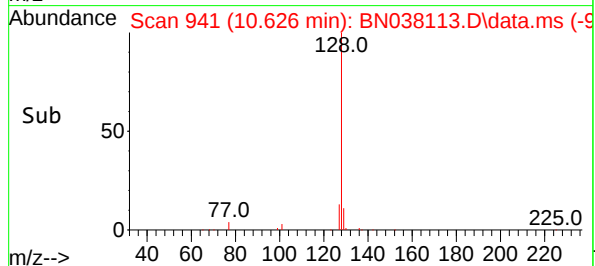
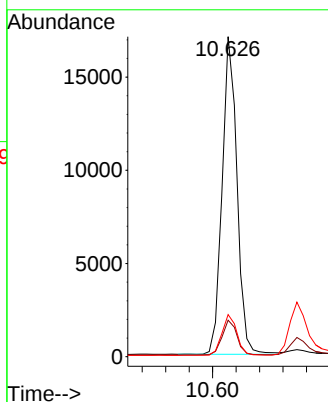
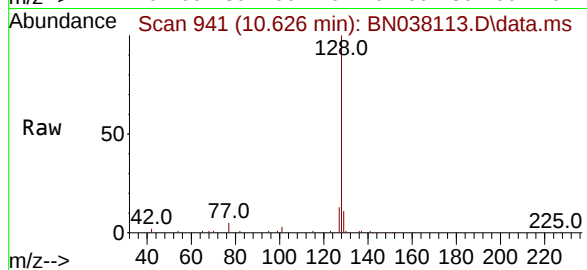
Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:	128	Resp:	29858
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.1	10.5	15.7



#10

Hexachlorobutadiene

Concen: 0.403 ng

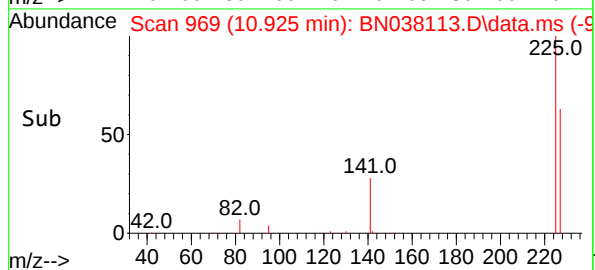
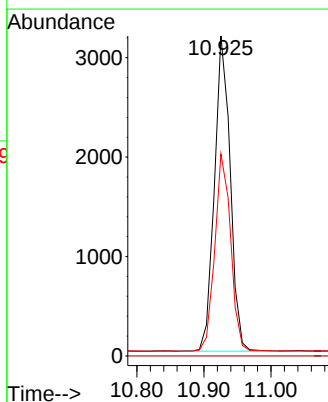
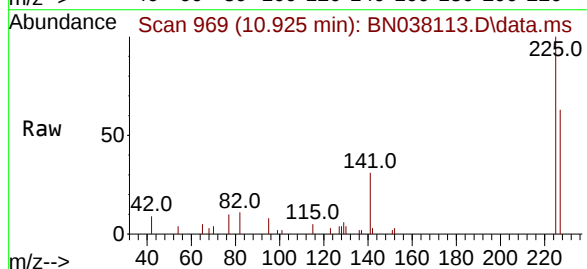
RT: 10.925 min Scan# 969

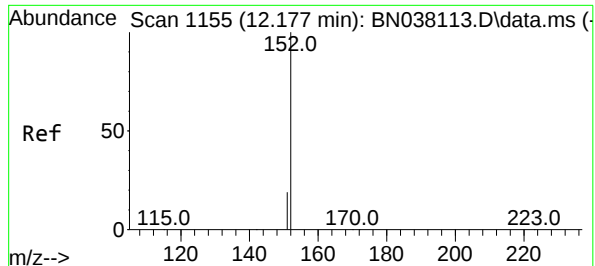
Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Tgt Ion:	225	Resp:	5174
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	50.3	75.5

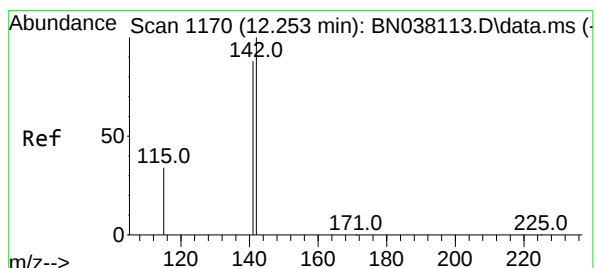
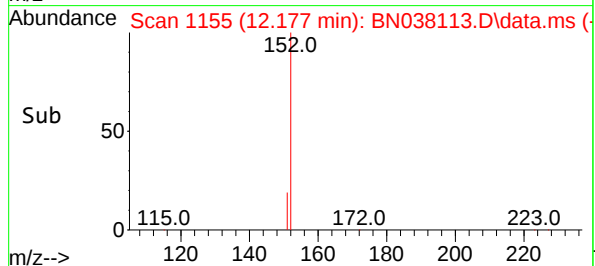
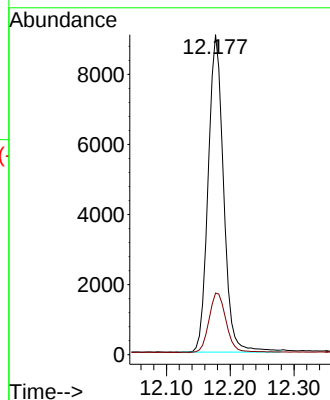
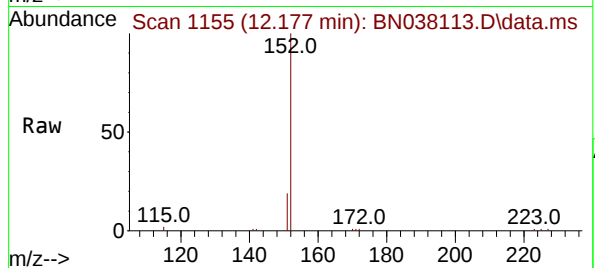




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

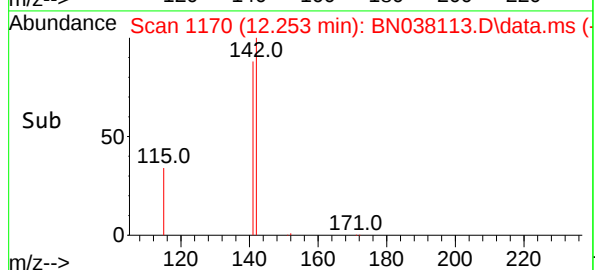
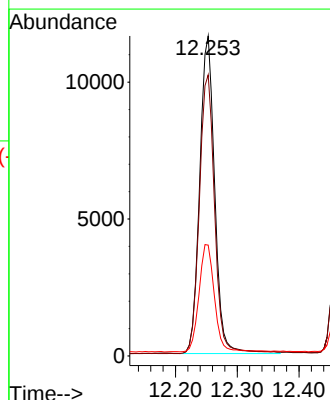
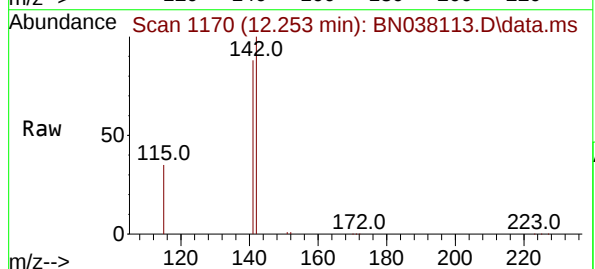
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

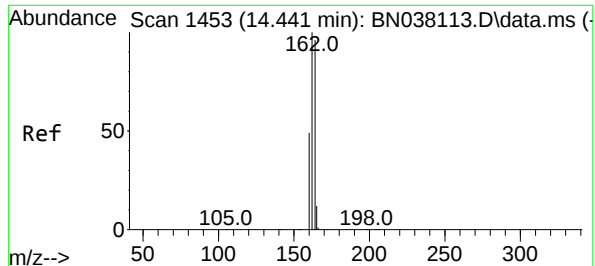
Tgt Ion:152 Resp: 15231
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.253 min Scan# 1170
Delta R.T. 0.005 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion:142 Resp: 19577
Ion Ratio Lower Upper
142 100
141 87.9 70.3 105.5
115 34.7 27.8 41.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.441 min Scan# 1453

Delta R.T. 0.011 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

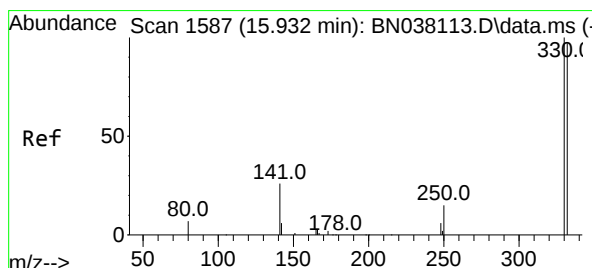
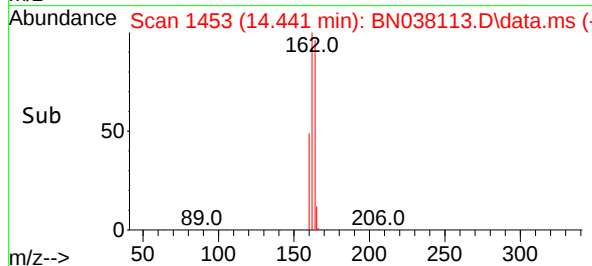
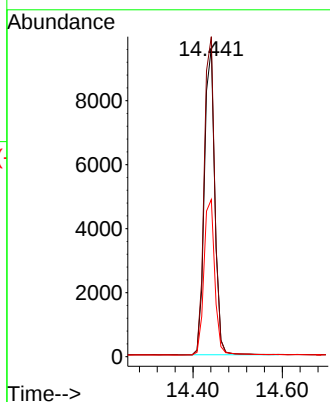
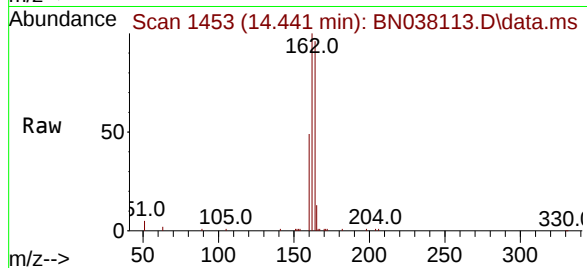
Tgt Ion:164 Resp: 15496

Ion Ratio Lower Upper

164 100

162 103.7 83.0 124.4

160 50.9 40.7 61.1



#14

2,4,6-Tribromophenol

Concen: 0.361 ng

RT: 15.932 min Scan# 1587

Delta R.T. 0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

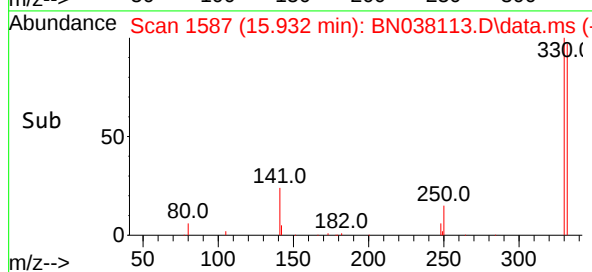
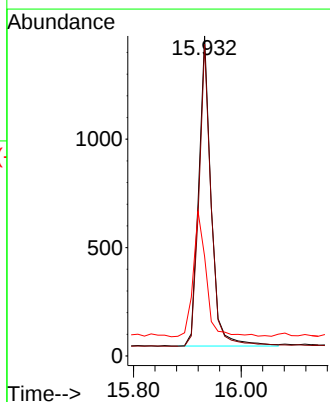
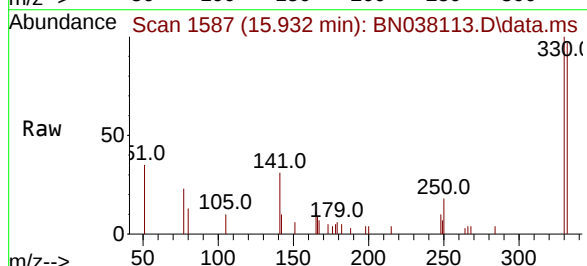
Tgt Ion:330 Resp: 2303

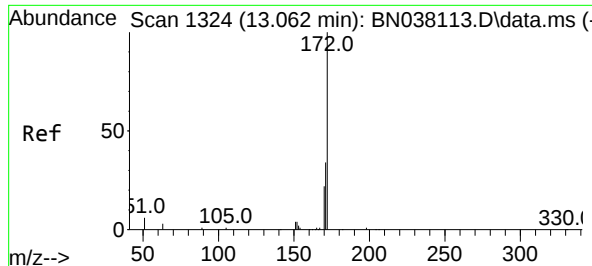
Ion Ratio Lower Upper

330 100

332 96.1 76.6 114.8

141 42.6 34.1 51.1

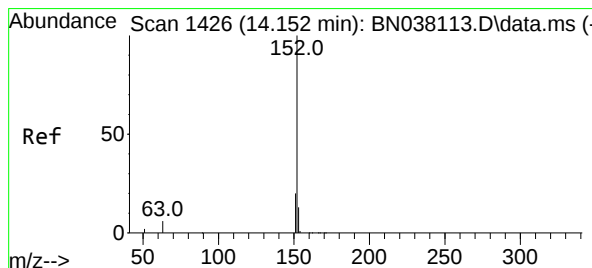
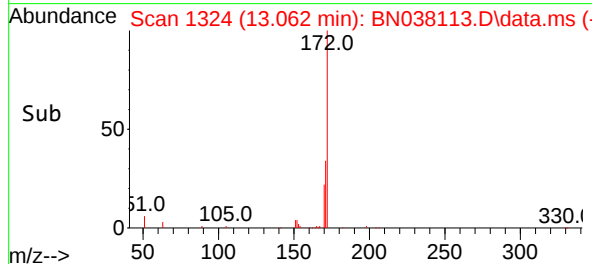
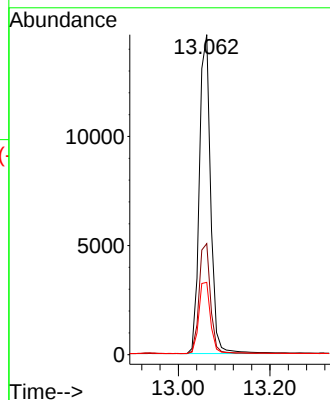
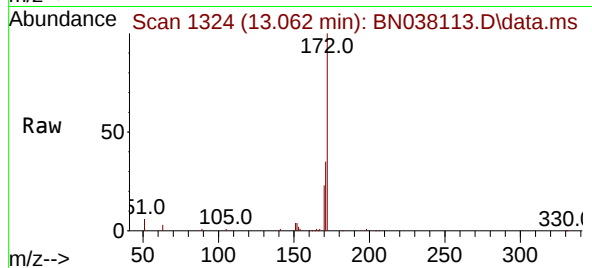




#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 13.062 min Scan# 1324
Delta R.T. 0.011 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

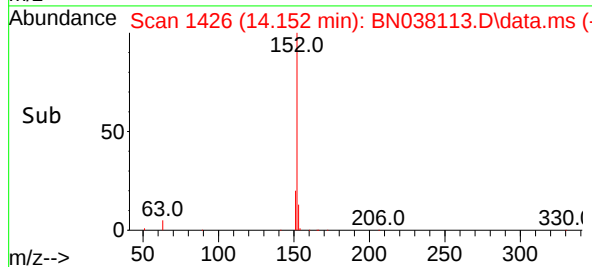
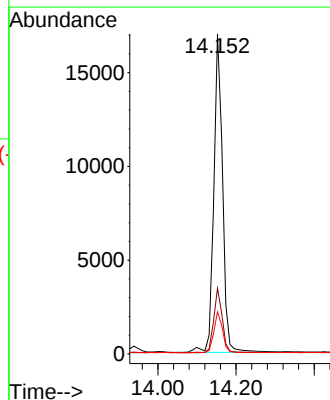
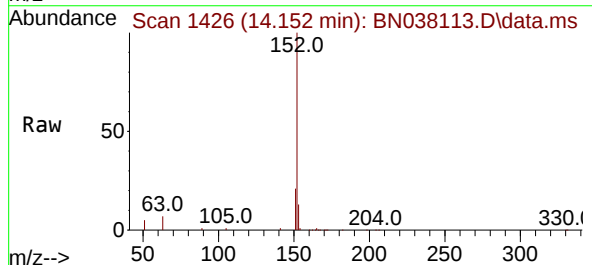
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

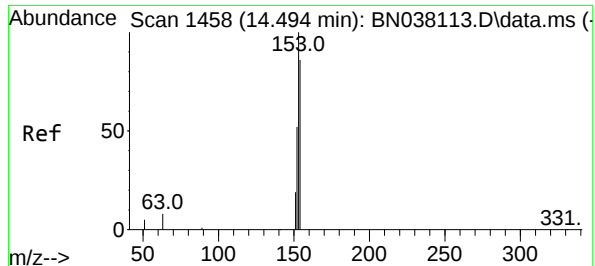
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.8	41.6
170	22.6	18.1	27.1



#16
Acenaphthylene
Concen: 0.378 ng
RT: 14.152 min Scan# 1426
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.7	10.2	15.2

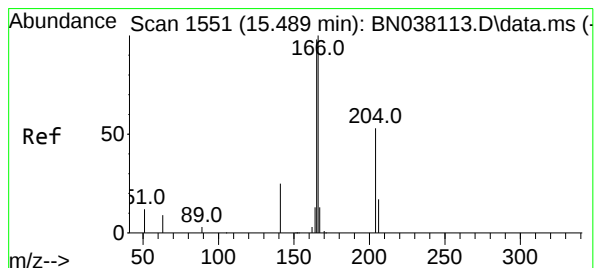
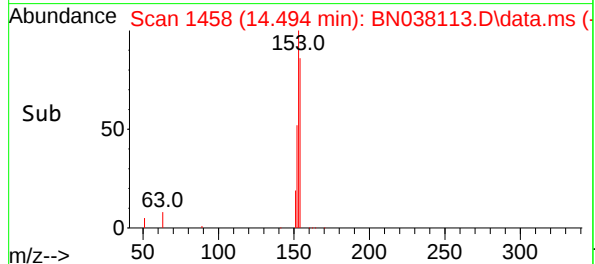
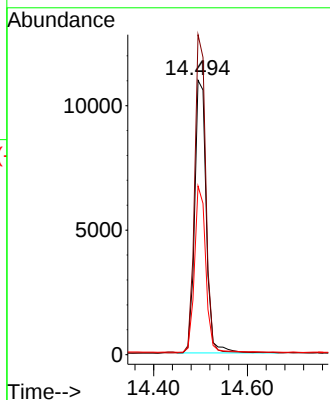
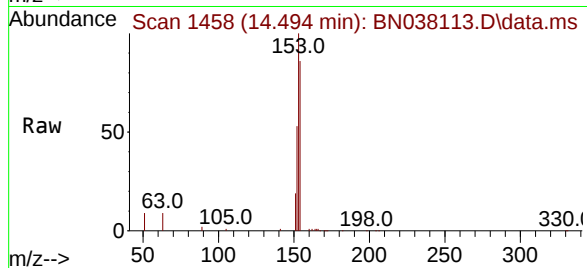




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

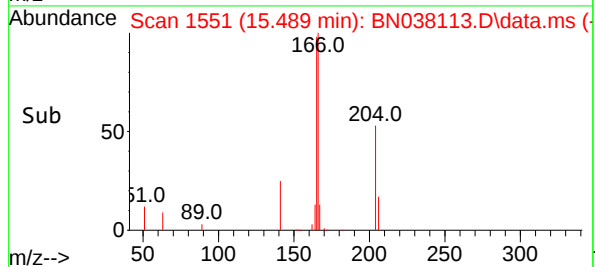
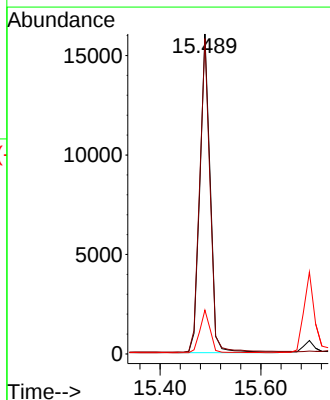
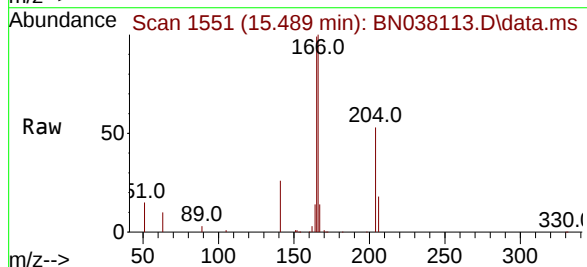
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

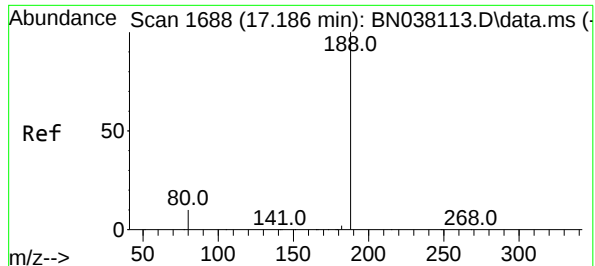
Tgt Ion:154 Resp: 18774
Ion Ratio Lower Upper
154 100
153 112.5 90.0 135.0
152 59.1 47.3 70.9



#18
Fluorene
Concen: 0.384 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion:166 Resp: 24733
Ion Ratio Lower Upper
166 100
165 98.7 79.0 118.4
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

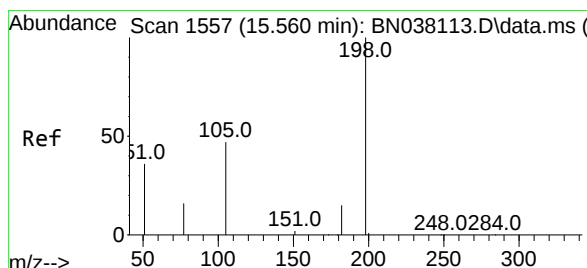
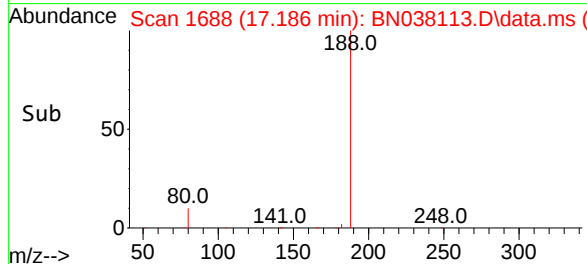
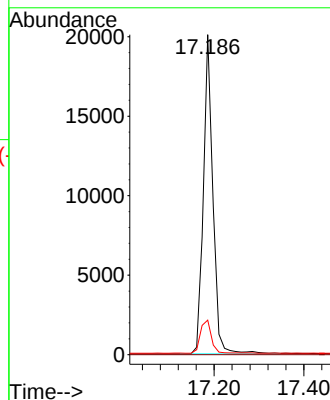
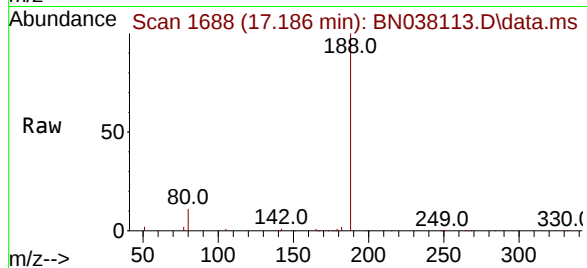
Tgt Ion:188 Resp: 29547

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 8.6 13.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.375 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

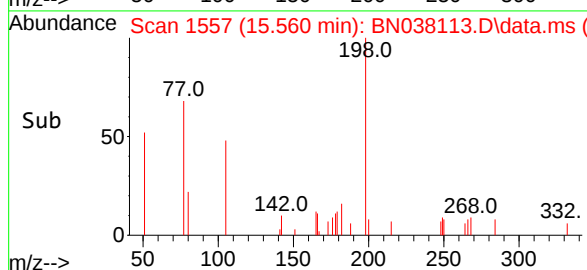
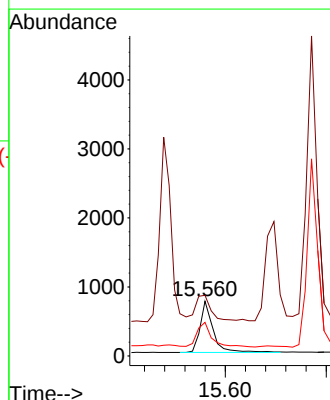
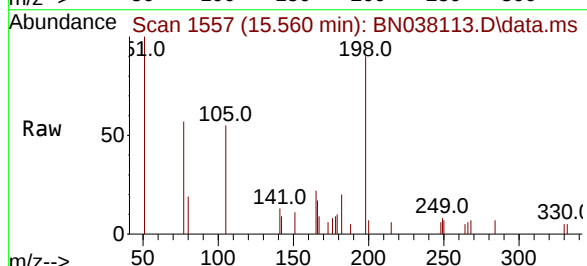
Tgt Ion:198 Resp: 1329

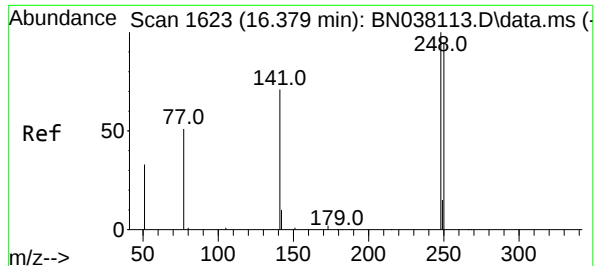
Ion Ratio Lower Upper

198 100

51 111.1 88.9 133.3

105 61.5 49.2 73.8

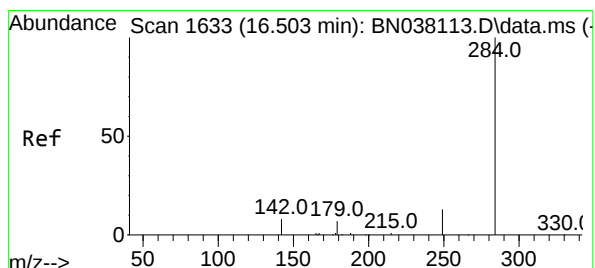
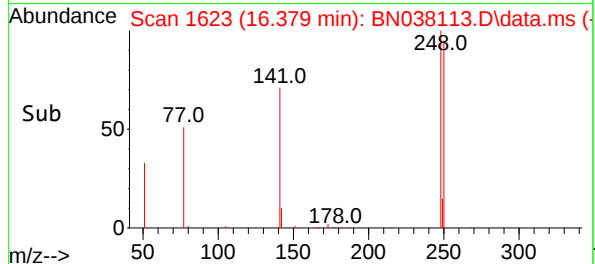
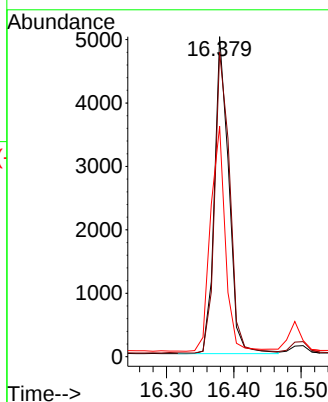
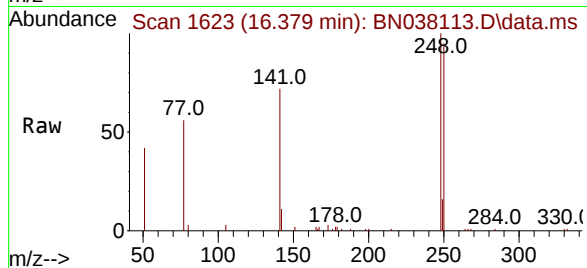




#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 16.379 min Scan# 1623
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

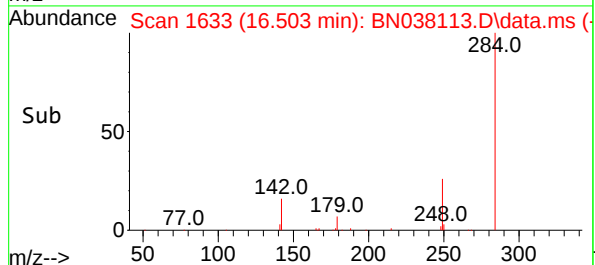
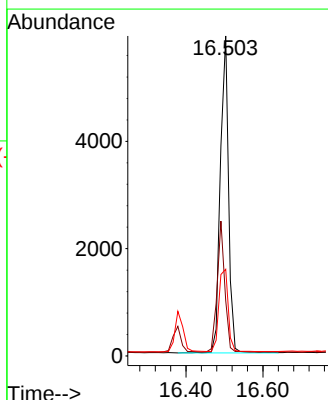
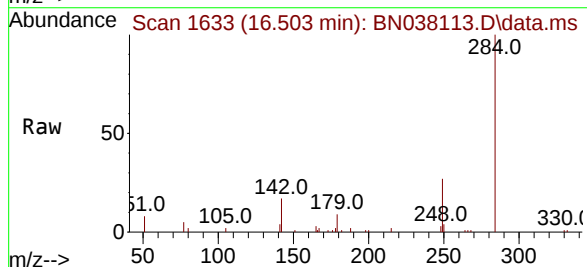
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

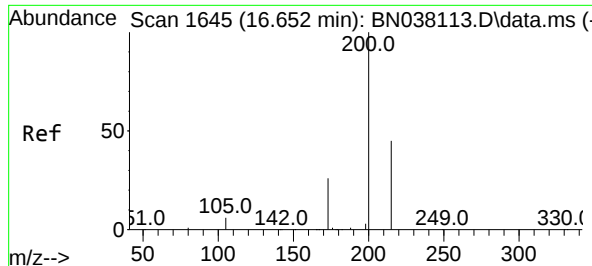
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.2	76.2	114.2
141	72.0	57.6	86.4



#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.503 min Scan# 1633
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.5	45.7
249	29.4	23.5	35.3

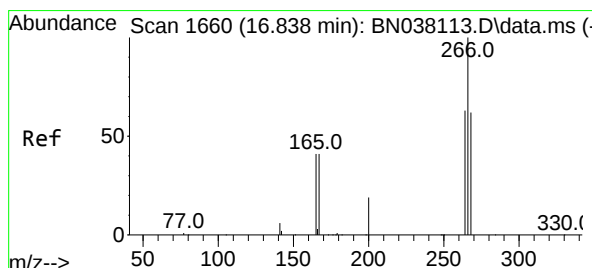
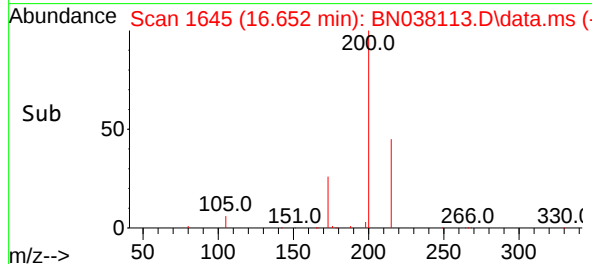
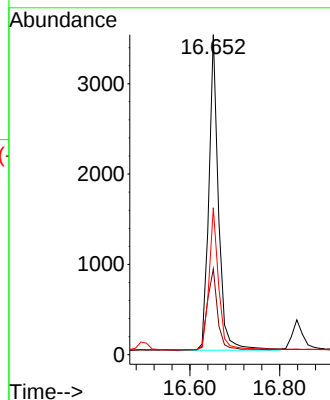
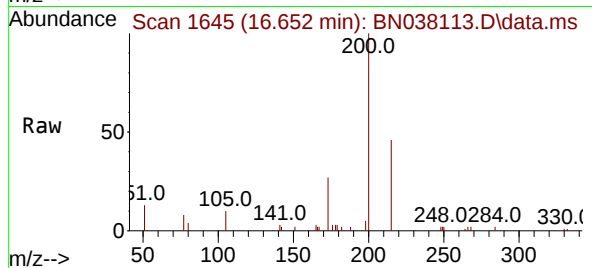




#23
Atrazine
Concen: 0.365 ng
RT: 16.652 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

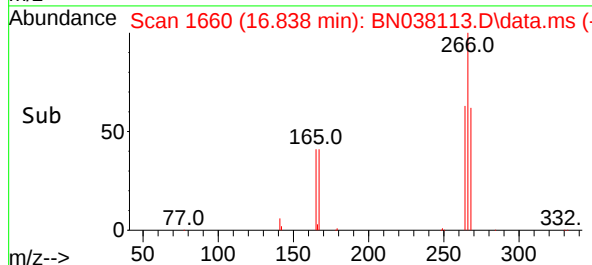
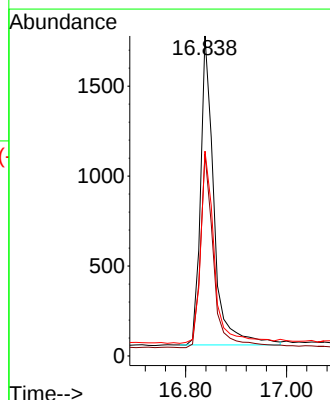
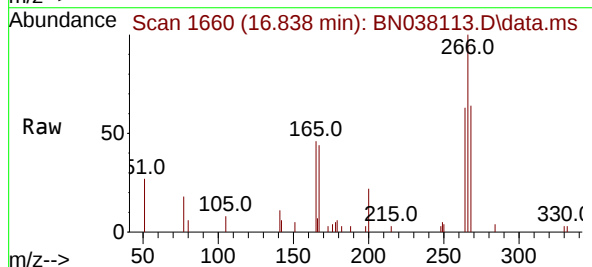
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

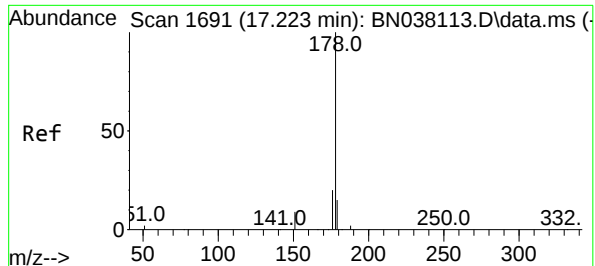
Tgt Ion	200	Resp:	5175
Ion Ratio	Lower	Upper	
200	100		
173	26.8	21.4	32.2
215	45.9	36.7	55.1



#24
Pentachlorophenol
Concen: 0.335 ng
RT: 16.838 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion	266	Resp:	3182
Ion Ratio	Lower	Upper	
266	100		
264	61.6	49.3	73.9
268	63.2	50.6	75.8





#25

Phenanthrene

Concen: 0.385 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

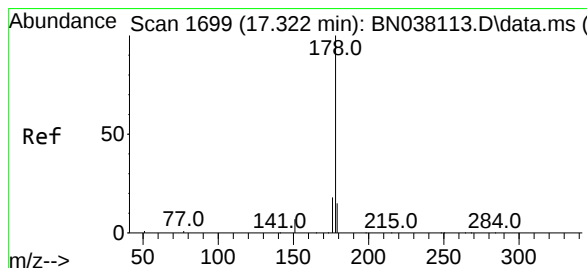
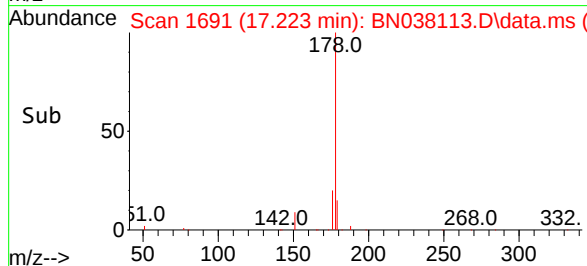
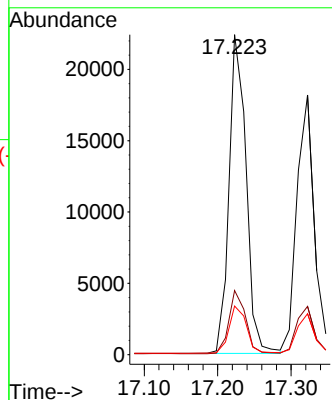
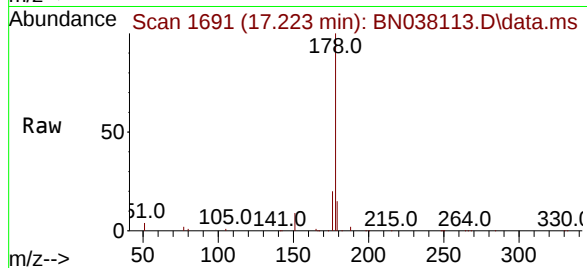
Tgt Ion:178 Resp: 36093

Ion Ratio Lower Upper

178 100

176 19.4 15.5 23.3

179 15.3 12.2 18.4



#26

Anthracene

Concen: 0.376 ng

RT: 17.322 min Scan# 1699

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

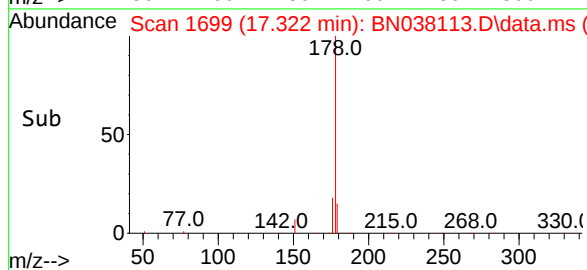
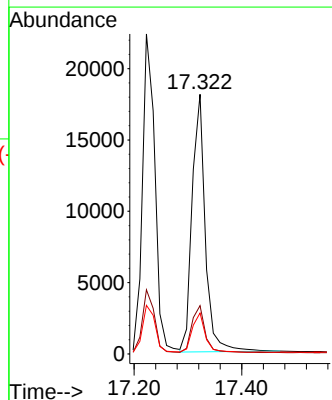
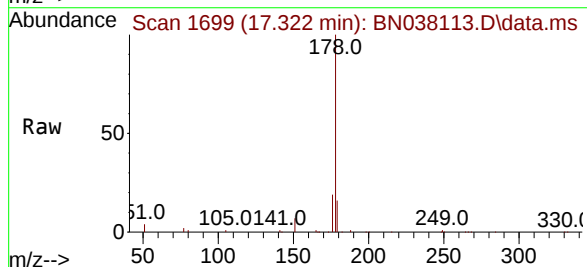
Tgt Ion:178 Resp: 30869

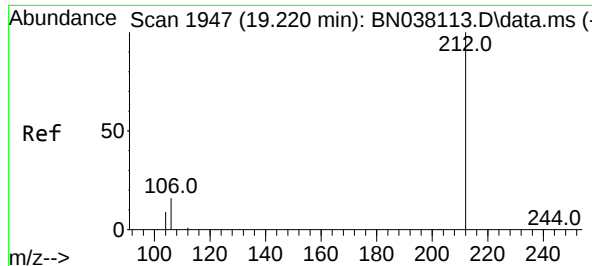
Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

179 14.8 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.379 ng

RT: 19.220 min Scan# 1947

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

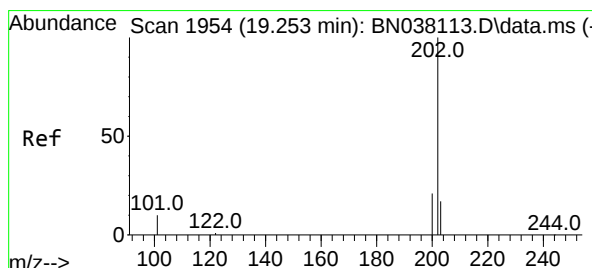
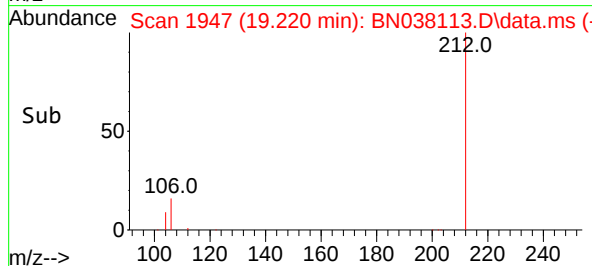
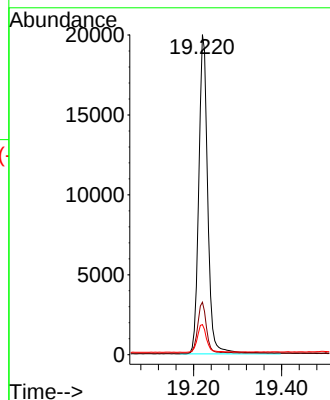
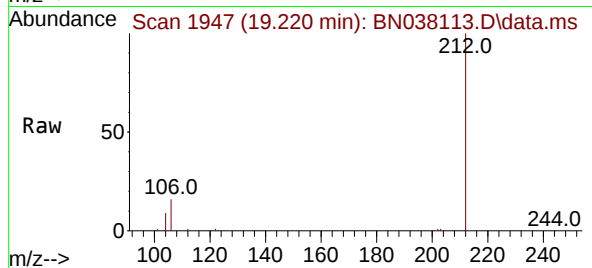
Tgt Ion:212 Resp: 28227

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 8.9 7.1 10.7



#28

Fluoranthene

Concen: 0.378 ng

RT: 19.253 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

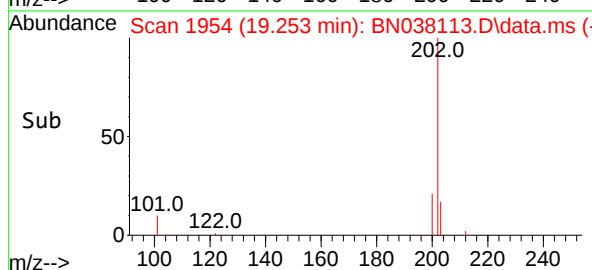
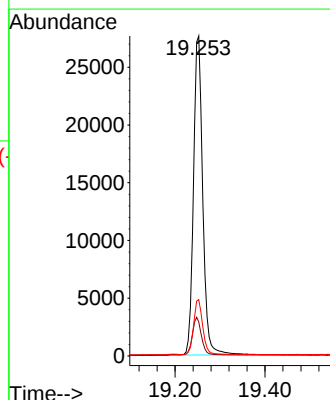
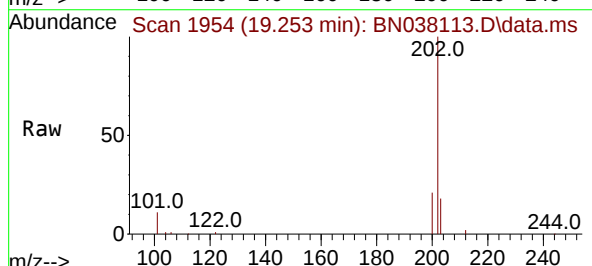
Tgt Ion:202 Resp: 39664

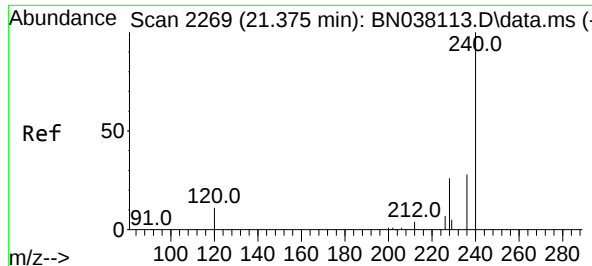
Ion Ratio Lower Upper

202 100

101 11.8 9.4 14.2

203 16.8 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

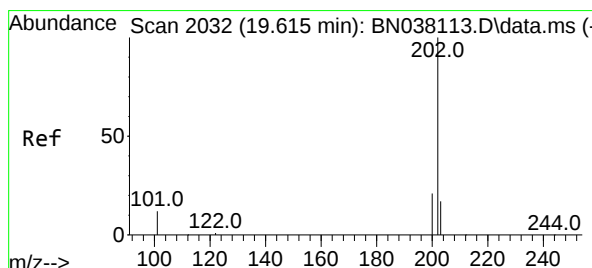
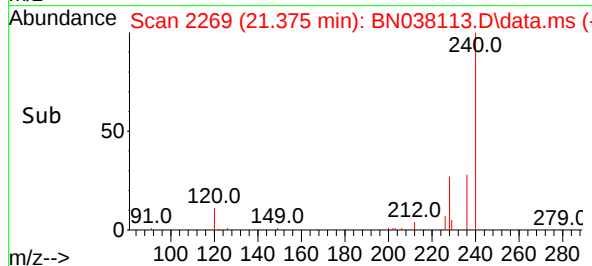
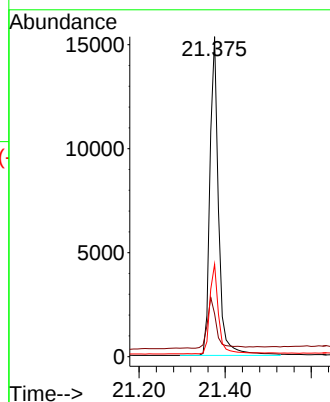
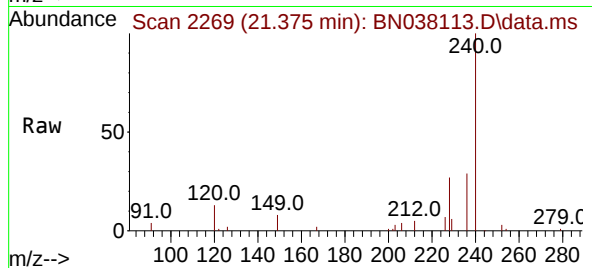
Tgt Ion:240 Resp: 21529

Ion Ratio Lower Upper

240 100

120 13.4 10.7 16.1

236 28.9 23.1 34.7



#30

Pyrene

Concen: 0.408 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

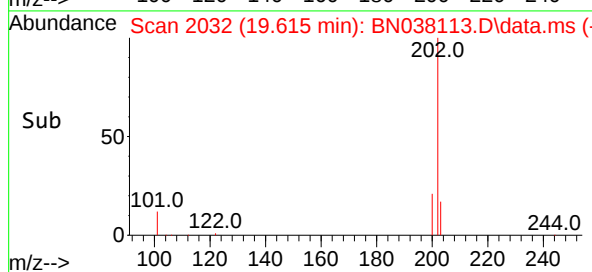
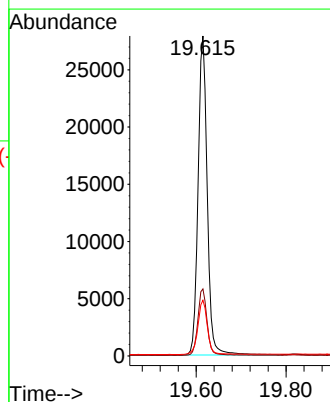
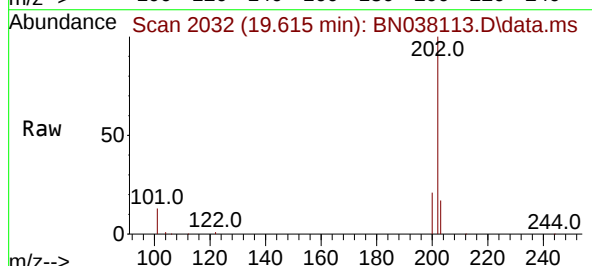
Tgt Ion:202 Resp: 39644

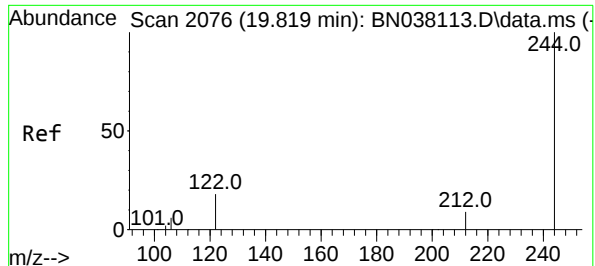
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.7 14.2 21.2

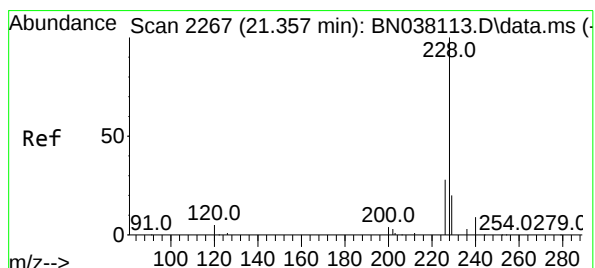
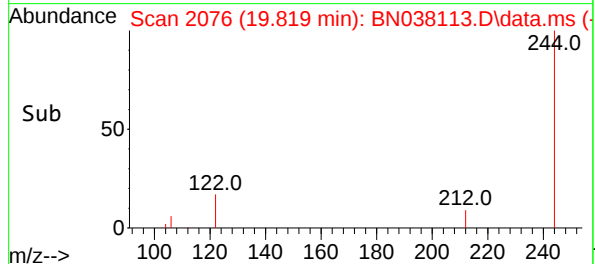
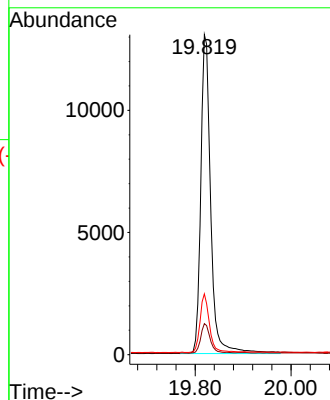
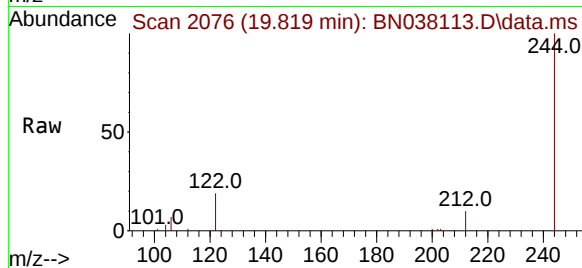




#31
Terphenyl-d14
Concen: 0.401 ng
RT: 19.819 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

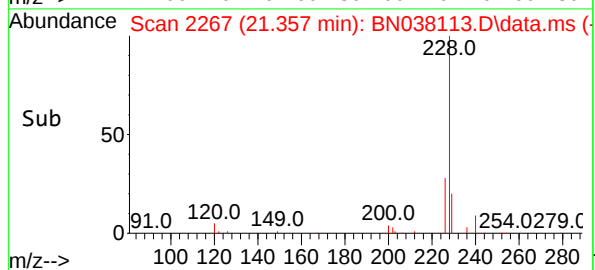
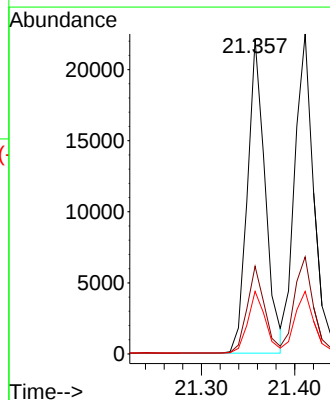
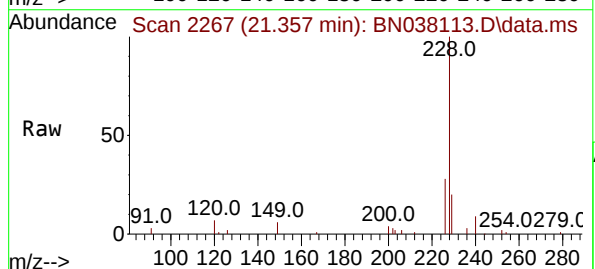
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

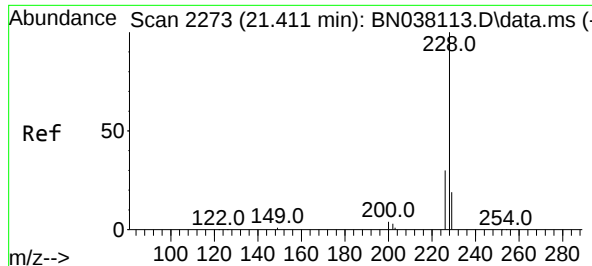
Tgt Ion:244 Resp: 18767
Ion Ratio Lower Upper
244 100
212 9.7 7.8 11.6
122 19.0 15.2 22.8



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.357 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN038113.D
Acq: 28 Oct 2025 14:13

Tgt Ion:228 Resp: 29230
Ion Ratio Lower Upper
228 100
226 27.8 22.2 33.4
229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.398 ng

RT: 21.411 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

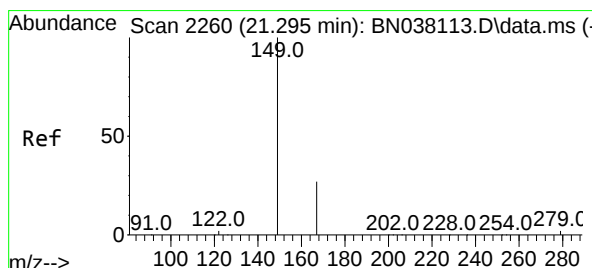
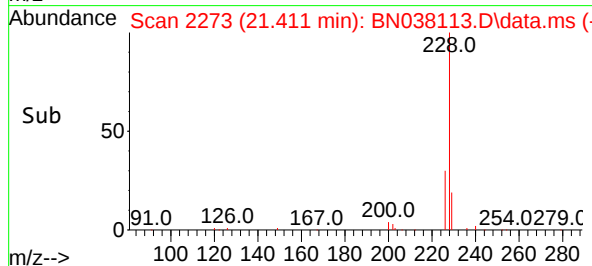
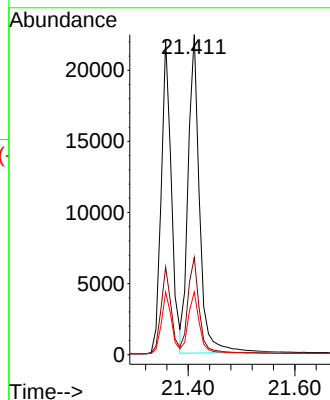
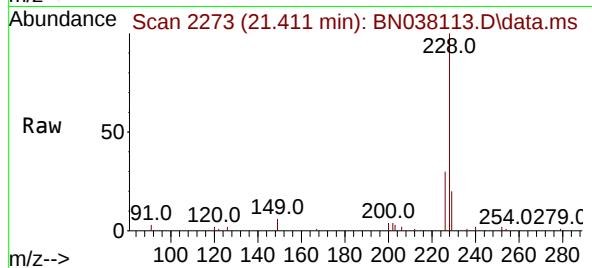
Tgt Ion:228 Resp: 33214

Ion Ratio Lower Upper

228 100

226 30.4 24.3 36.5

229 19.6 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

RT: 21.295 min Scan# 2260

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

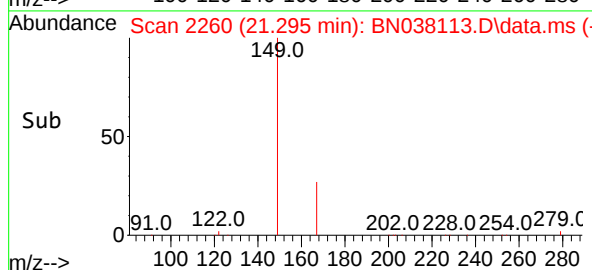
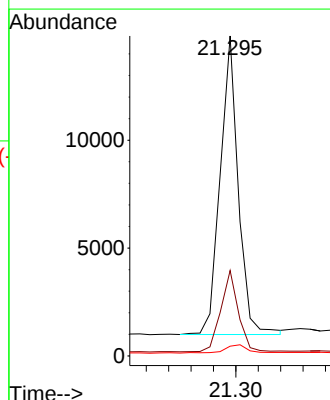
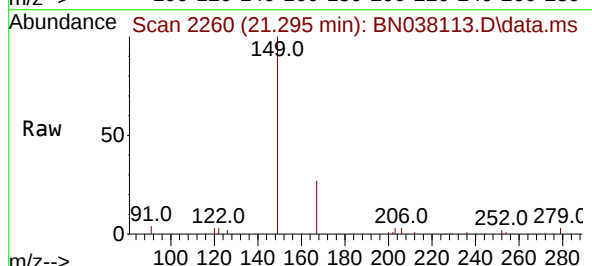
Tgt Ion:149 Resp: 15540

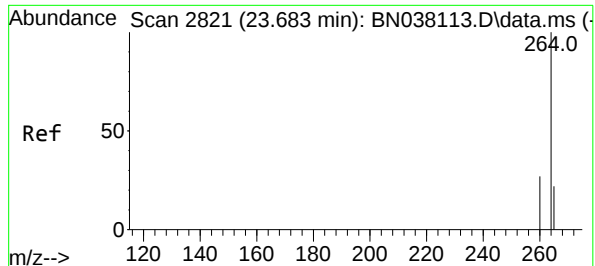
Ion Ratio Lower Upper

149 100

167 26.4 21.1 31.7

279 3.6 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.683 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

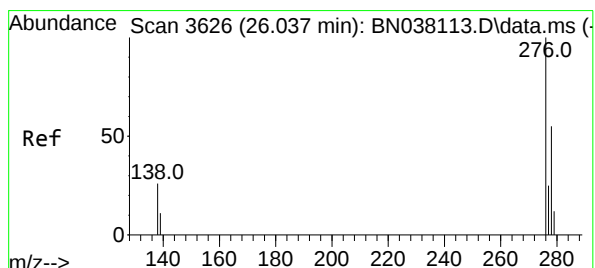
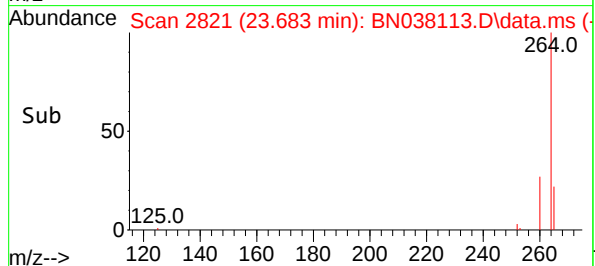
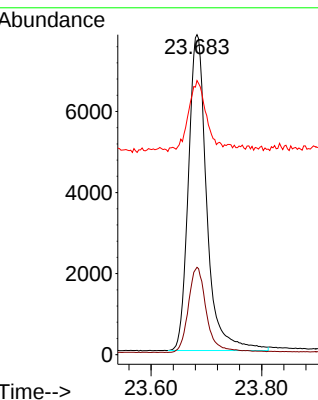
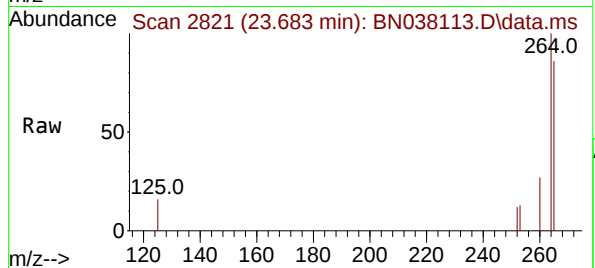
Tgt Ion:264 Resp: 17966

Ion Ratio Lower Upper

264 100

260 27.3 21.8 32.8

265 85.7 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.390 ng

RT: 26.037 min Scan# 3626

Delta R.T. 0.003 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

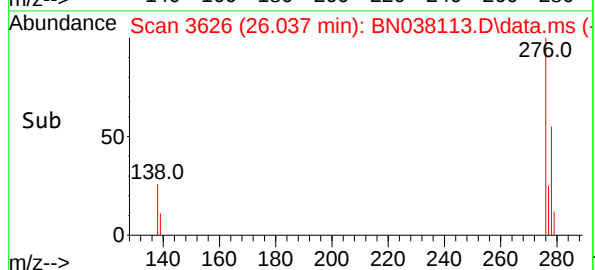
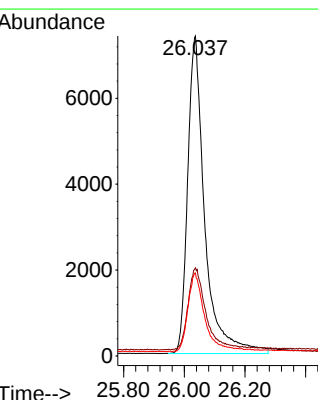
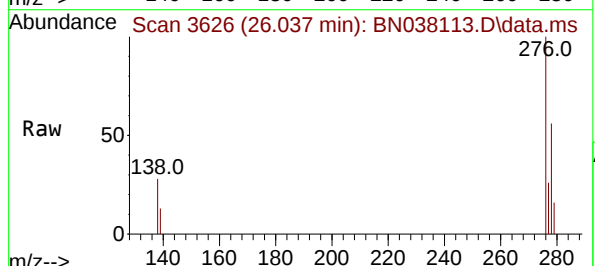
Tgt Ion:276 Resp: 28812

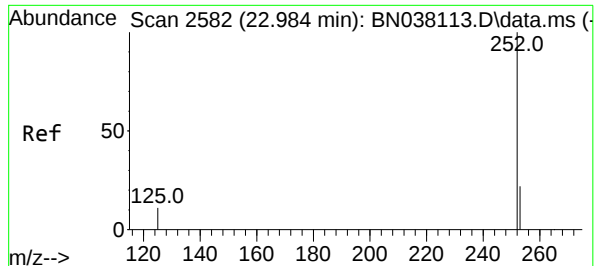
Ion Ratio Lower Upper

276 100

138 26.7 21.4 32.0

277 24.0 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 0.381 ng

RT: 22.984 min Scan# 2582

Delta R.T. 0.003 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

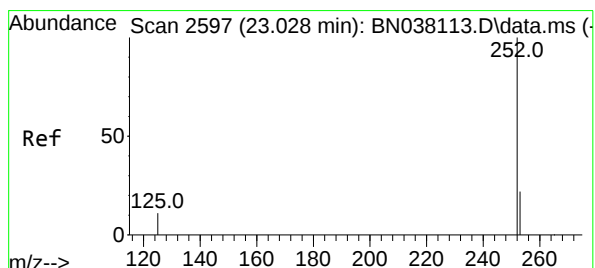
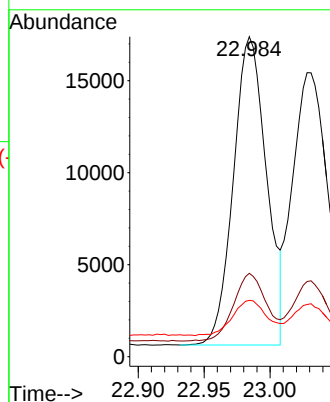
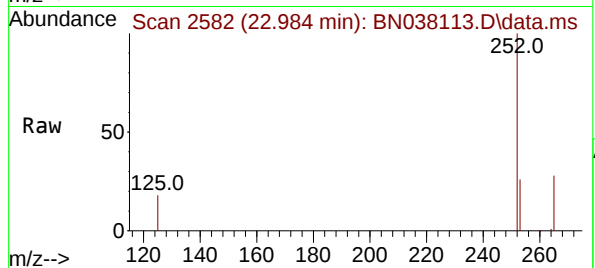
Tgt Ion:252 Resp: 29283

Ion Ratio Lower Upper

252 100

253 26.1 20.9 31.3

125 17.6 14.1 21.1



#38

Benzo(k)fluoranthene

Concen: 0.376 ng

RT: 23.028 min Scan# 2597

Delta R.T. -0.000 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

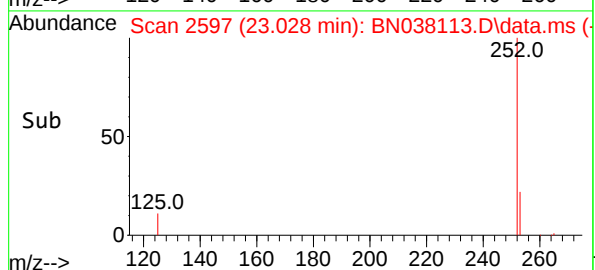
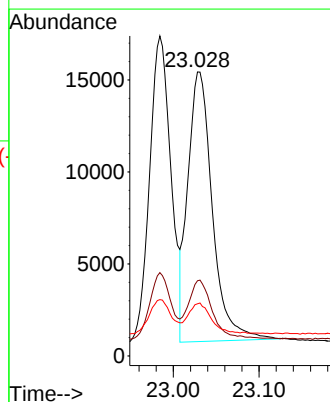
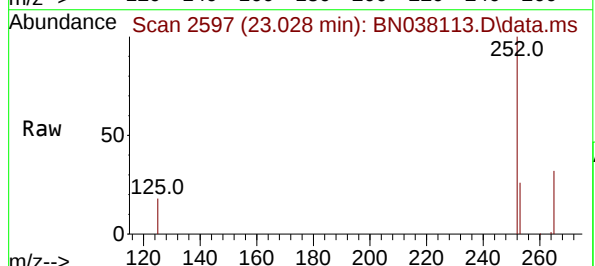
Tgt Ion:252 Resp: 29088

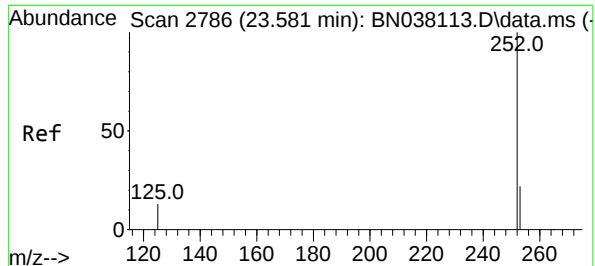
Ion Ratio Lower Upper

252 100

253 26.5 21.2 31.8

125 18.3 14.6 22.0





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.581 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

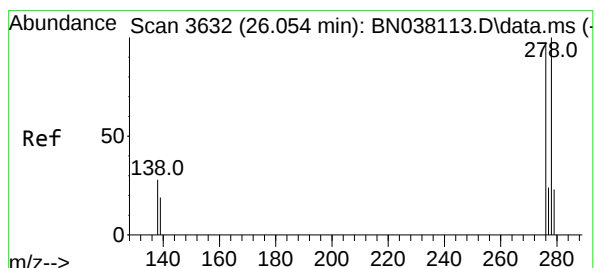
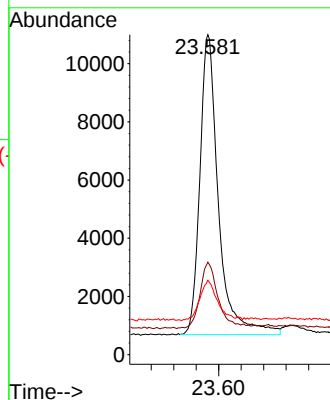
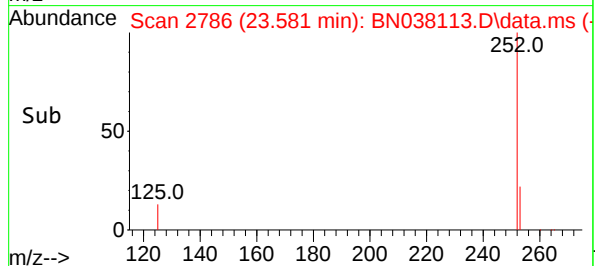
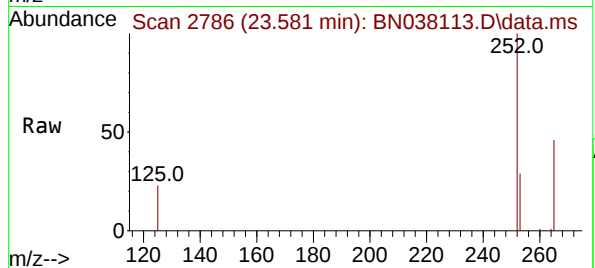
Tgt Ion:252 Resp: 23635

Ion Ratio Lower Upper

252 100

253 28.9 23.1 34.7

125 23.3 18.6 28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

RT: 26.054 min Scan# 3632

Delta R.T. 0.006 min

Lab File: BN038113.D

Acq: 28 Oct 2025 14:13

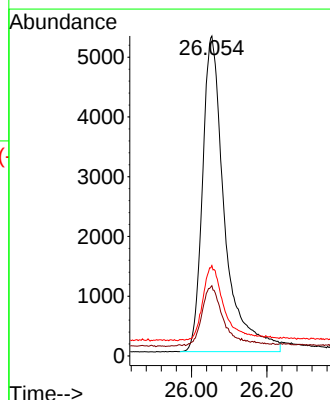
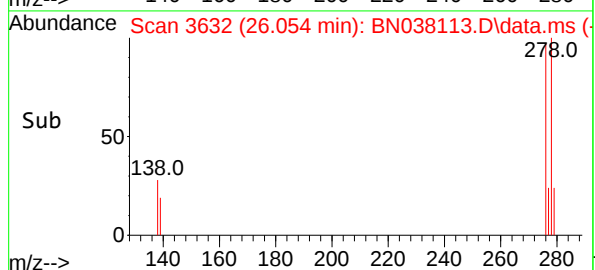
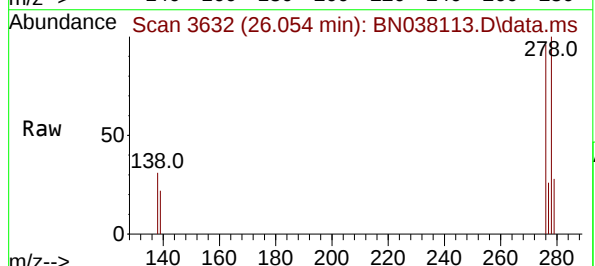
Tgt Ion:278 Resp: 21487

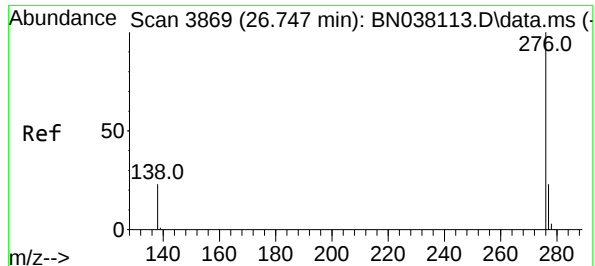
Ion Ratio Lower Upper

278 100

139 22.0 17.6 26.4

279 28.2 22.6 33.8





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.747 min Scan# 3869

Delta R.T. -0.003 min

Lab File: BN038113.D

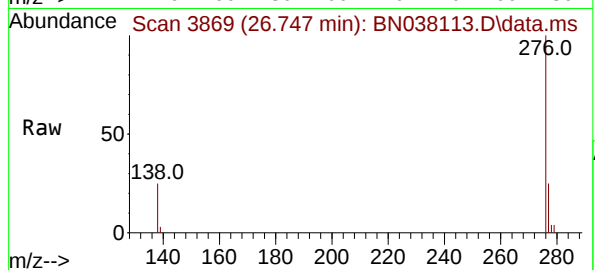
Acq: 28 Oct 2025 14:13

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



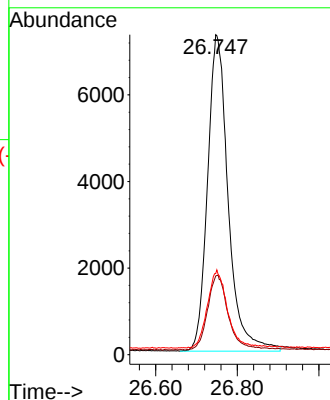
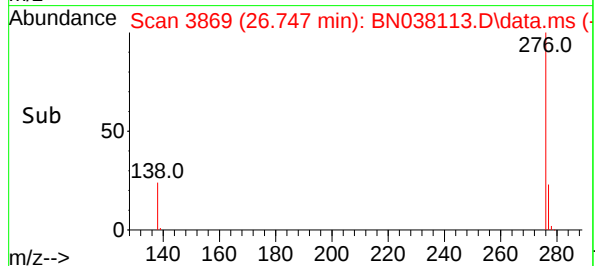
Tgt Ion:276 Resp: 25622

Ion Ratio Lower Upper

276 100

277 24.6 19.7 29.5

138 25.3 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038114.D
 Acq On : 28 Oct 2025 14:49
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 10/30/2025

Quant Time: Oct 28 17:31:46 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 28 17:15:13 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	9110	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	27131	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	14920	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	28506	0.400	ng	0.00
29) Chrysene-d12	21.375	240	23535	0.400	ng	0.00
35) Perylene-d12	23.683	264	20307	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	16552	0.771	ng	0.00
5) Phenol-d6	6.937	99	19989	0.765	ng	0.00
8) Nitrobenzene-d5	8.929	82	16332	0.746	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	29806	0.769	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	4525	0.736	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	46843	0.784	ng	0.01
27) Fluoranthene-d10	19.220	212	55912	0.778	ng	0.00
31) Terphenyl-d14	19.819	244	37975	0.743	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.254	88	7707	0.819	ng	99
3) n-Nitrosodimethylamine	3.564	42	9598	0.792	ng	# 100
6) bis(2-Chloroethyl)ether	7.197	93	20444	0.796	ng	99
9) Naphthalene	10.626	128	58627	0.784	ng	99
10) Hexachlorobutadiene	10.925	225	9875	0.783	ng	# 98
12) 2-Methylnaphthalene	12.248	142	38674	0.776	ng	98
16) Acenaphthylene	14.152	152	52624	0.779	ng	99
17) Acenaphthene	14.494	154	36845	0.779	ng	100
18) Fluorene	15.489	166	49204	0.794	ng	100
20) 4,6-Dinitro-2-methylph...	15.560	198	2898	0.689	ng	# 69
21) 4-Bromophenyl-phenylether	16.379	248	14571	0.780	ng	97
22) Hexachlorobenzene	16.503	284	16700	0.786	ng	99
23) Atrazine	16.652	200	10204	0.745	ng	99
24) Pentachlorophenol	16.838	266	6470	0.707	ng	99
25) Phenanthrene	17.223	178	70455	0.779	ng	100
26) Anthracene	17.322	178	60270	0.761	ng	100
28) Fluoranthene	19.253	202	79478	0.786	ng	100
30) Pyrene	19.615	202	78307	0.737	ng	100
32) Benzo(a)anthracene	21.357	228	64140	0.764	ng	100
33) Chrysene	21.411	228	71675	0.787	ng	100
34) Bis(2-ethylhexyl)phtha...	21.295	149	32963	0.745	ng	99
36) Indeno(1,2,3-cd)pyrene	26.039	276	65796	0.789	ng	99
37) Benzo(b)fluoranthene	22.984	252	69912m	0.805	ng	
38) Benzo(k)fluoranthene	23.031	252	67771	0.776	ng	# 93
39) Benzo(a)pyrene	23.578	252	53367	0.768	ng	# 90
40) Dibenzo(a,h)anthracene	26.054	278	50344	0.784	ng	95
41) Benzo(g,h,i)perylene	26.753	276	58155	0.793	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038114.D
Acq On : 28 Oct 2025 14:49
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

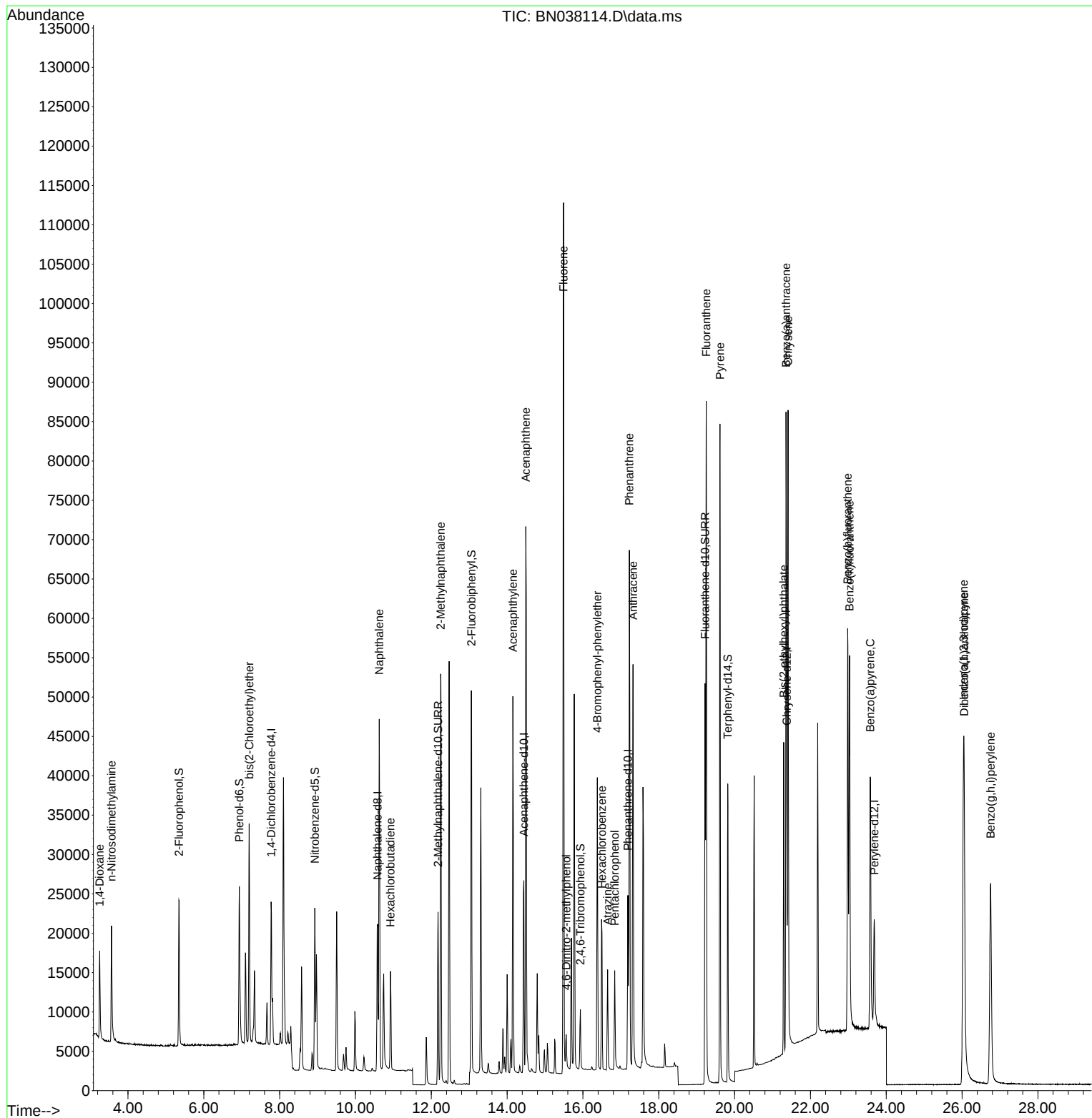
Manual Integrations

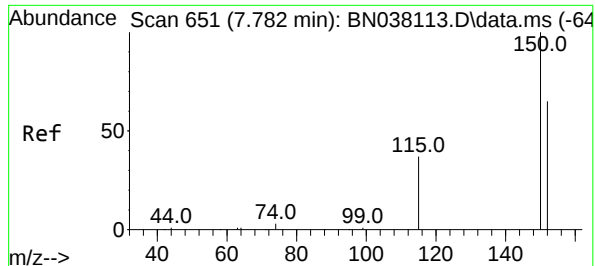
APPROVED

Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 10/30/2025

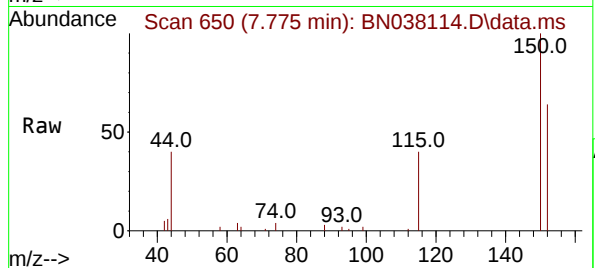
Quant Time: Oct 28 17:31:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 17:15:13 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

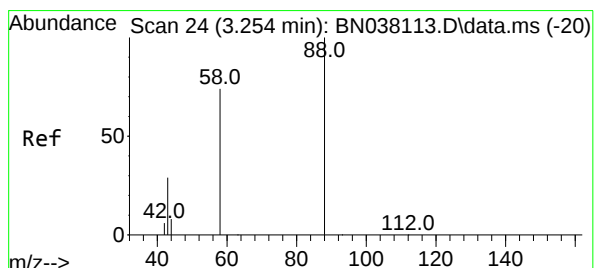
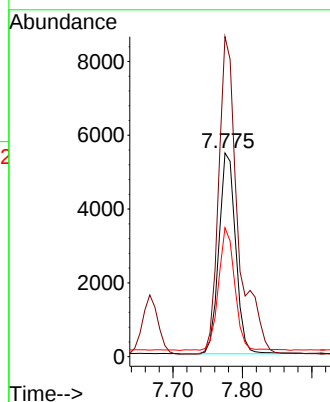
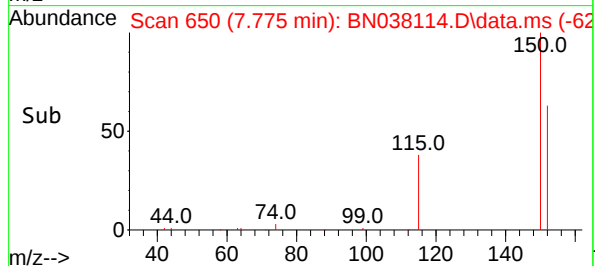
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:152 Resp: 9110
Ion Ratio Lower Upper
152 100
150 157.1 122.3 183.5
115 63.4 47.4 71.0

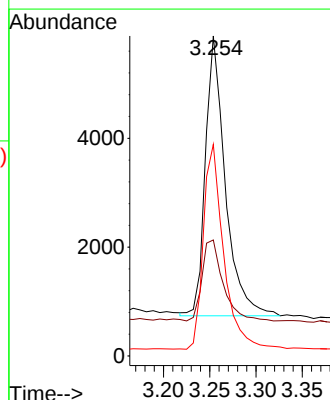
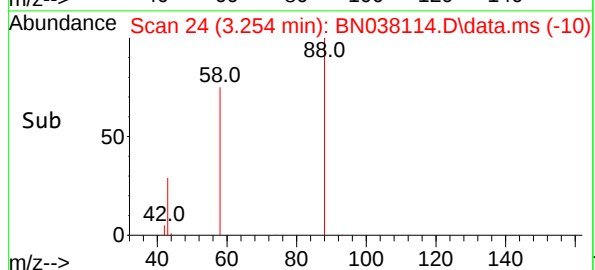
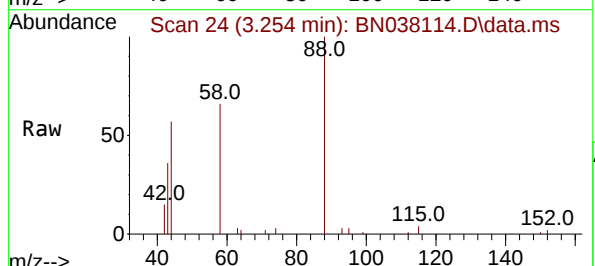
Manual Integrations
APPROVED

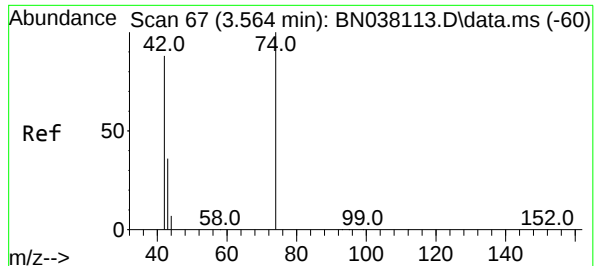
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#2
1,4-Dioxane
Concen: 0.819 ng
RT: 3.254 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Tgt Ion: 88 Resp: 7707
Ion Ratio Lower Upper
88 100
43 30.6 24.3 36.5
58 74.3 60.4 90.6





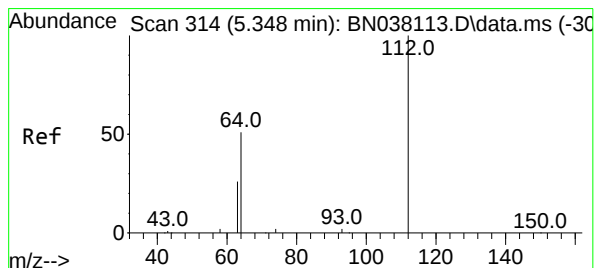
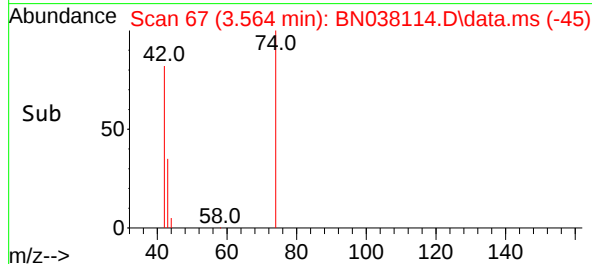
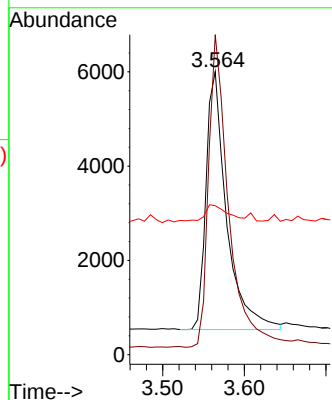
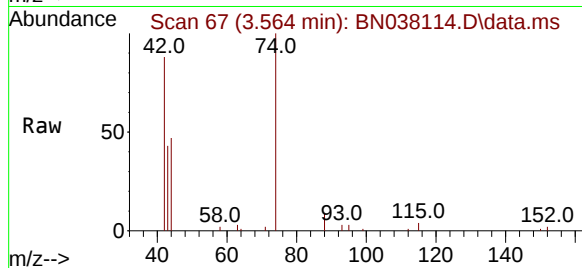
#3
n-Nitrosodimethylamine
Concen: 0.792 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 959
Ion Ratio Lower Upper
42 100
74 120.8 96.8 145.2
44 8.8 5.3 7.9

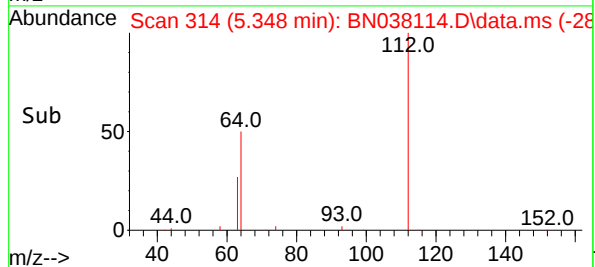
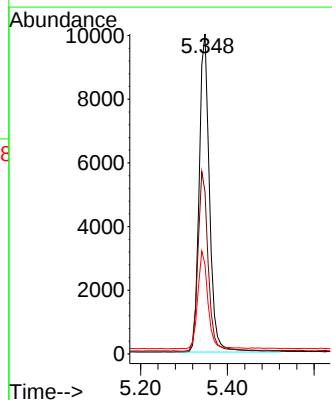
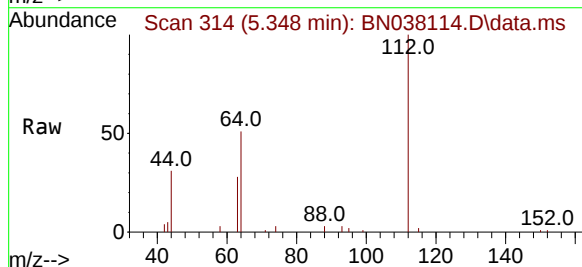
Manual Integrations
APPROVED

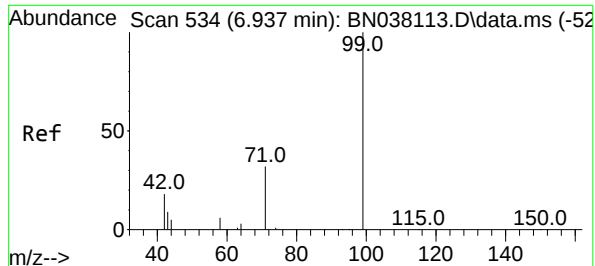
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#4
2-Fluorophenol
Concen: 0.771 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Tgt Ion:112 Resp: 16552
Ion Ratio Lower Upper
112 100
64 55.7 45.4 68.0
63 30.2 23.2 34.8





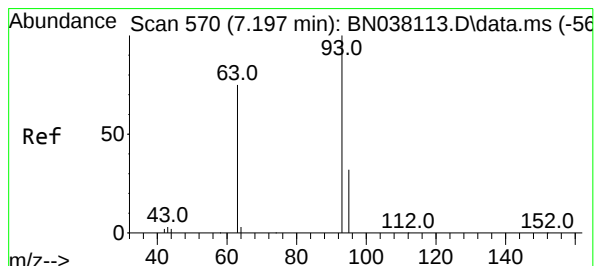
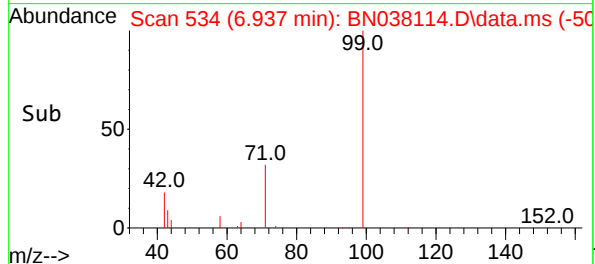
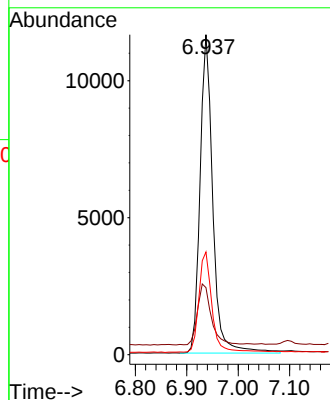
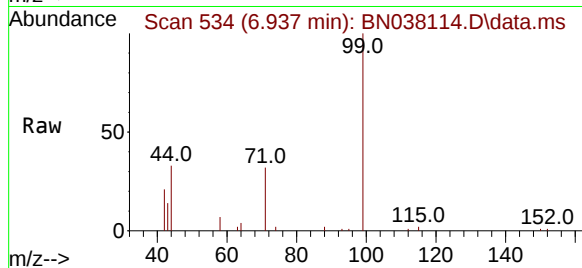
#5
Phenol-d6
Concen: 0.765 ng
RT: 6.937 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 1998
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 33.2 25.4 38.2

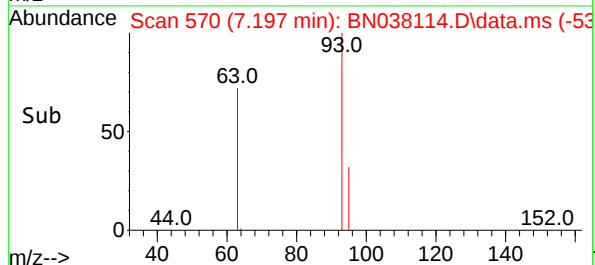
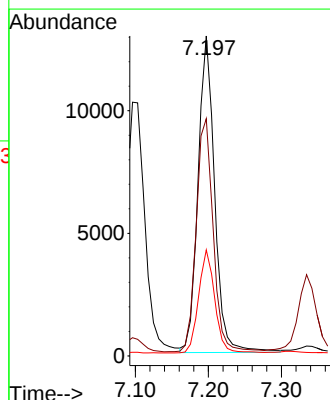
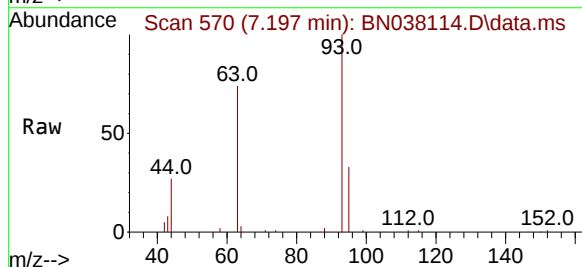
Manual Integrations
APPROVED

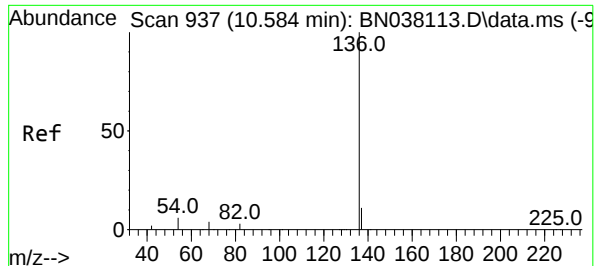
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.796 ng
RT: 7.197 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Tgt Ion: 93 Resp: 20444
Ion Ratio Lower Upper
93 100
63 75.0 59.3 88.9
95 31.6 25.2 37.8





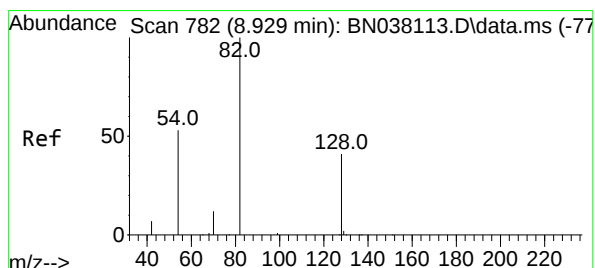
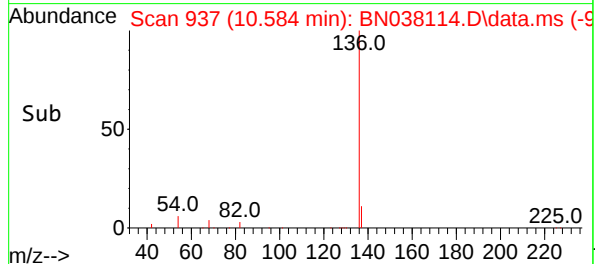
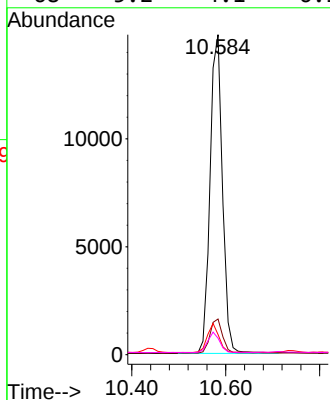
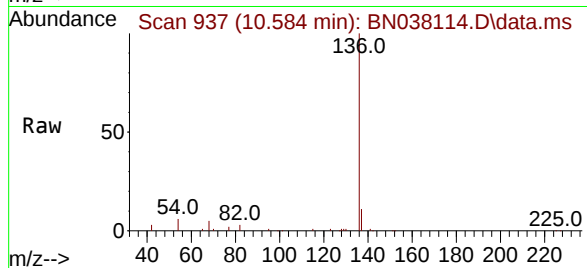
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	6.3	5.2	7.8
68	5.2	4.1	6.1

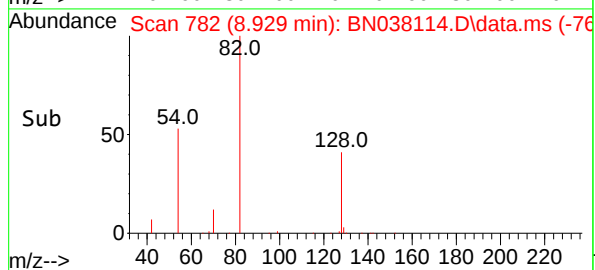
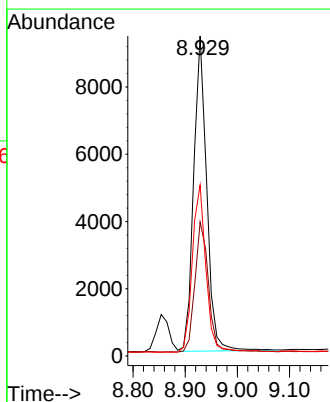
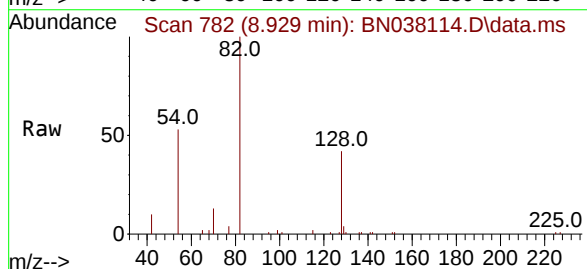
Manual Integrations
APPROVED

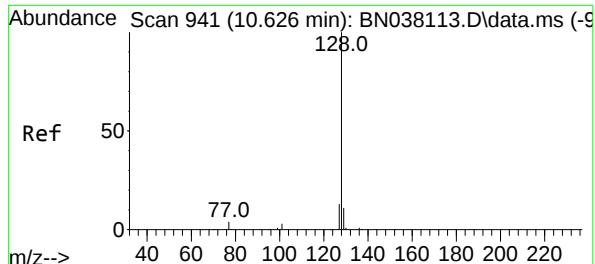
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#8
Nitrobenzene-d5
Concen: 0.746 ng
RT: 8.929 min Scan# 782
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.9	34.1	51.1
54	53.4	43.5	65.3





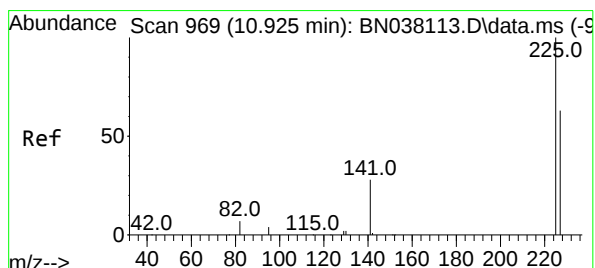
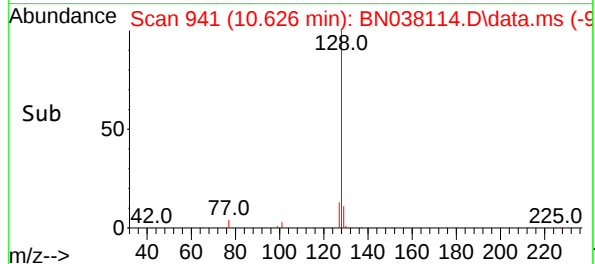
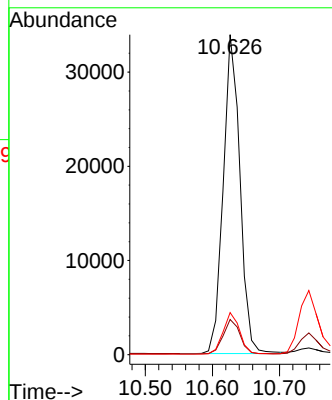
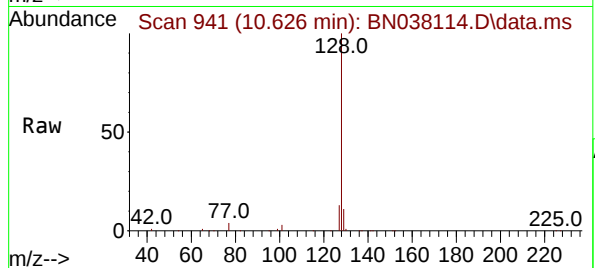
#9
Naphthalene
Concen: 0.784 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 5862
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 13.2 10.5 15.7

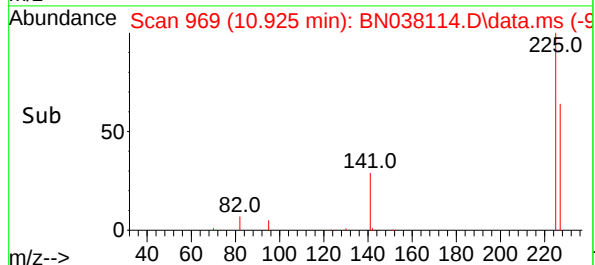
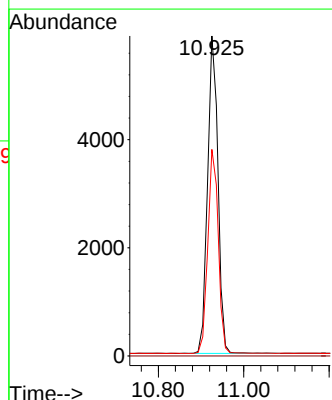
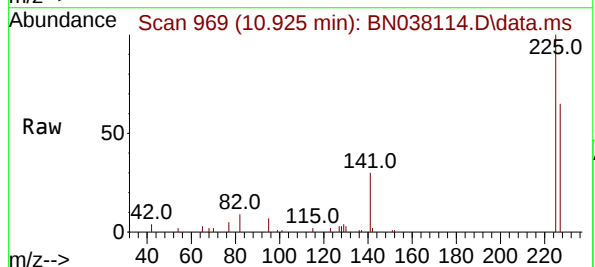
Manual Integrations
APPROVED

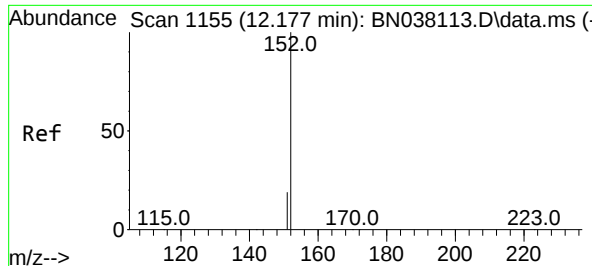
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#10
Hexachlorobutadiene
Concen: 0.783 ng
RT: 10.925 min Scan# 969
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

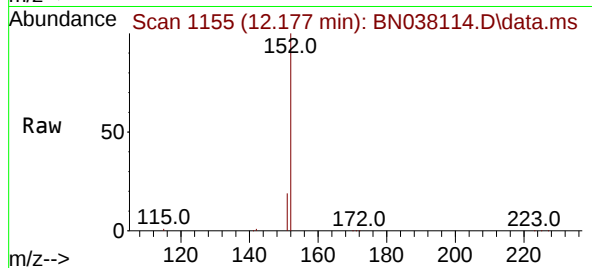
Tgt Ion:225 Resp: 9875
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 50.3 75.5





#11
2-Methylnaphthalene-d10
Concen: 0.769 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

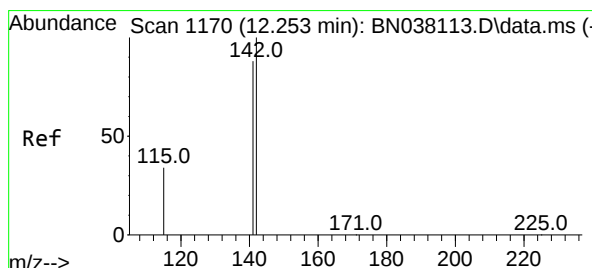
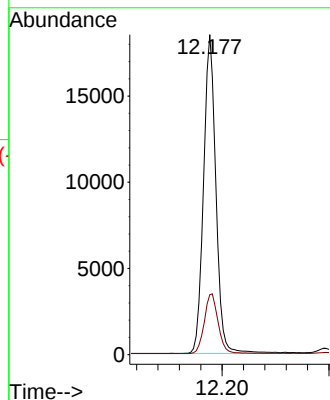
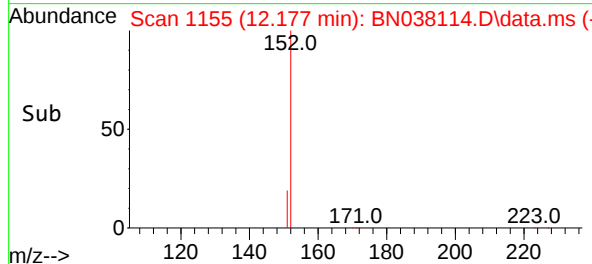
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:152 Resp: 29800
Ion Ratio Lower Upper
152 100
151 21.2 16.8 25.2

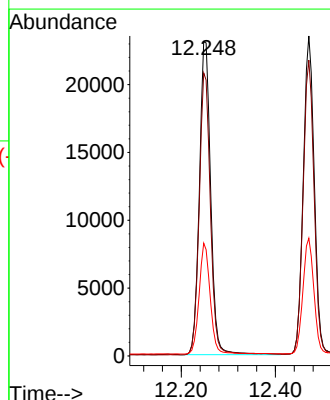
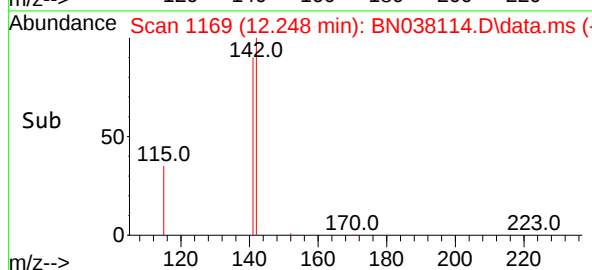
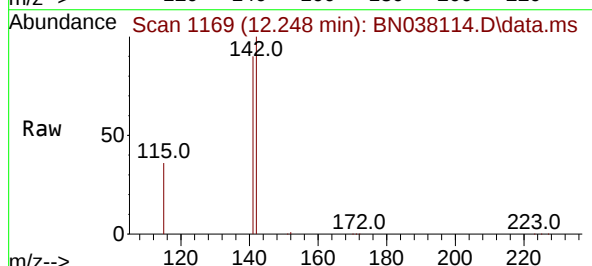
Manual Integrations
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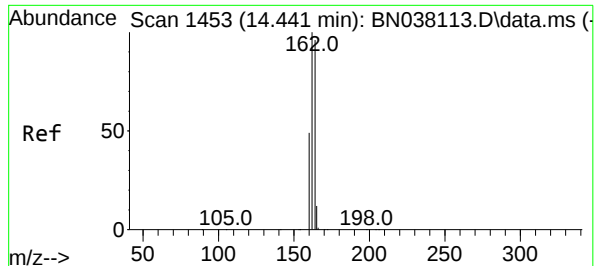
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#12
2-Methylnaphthalene
Concen: 0.776 ng
RT: 12.248 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

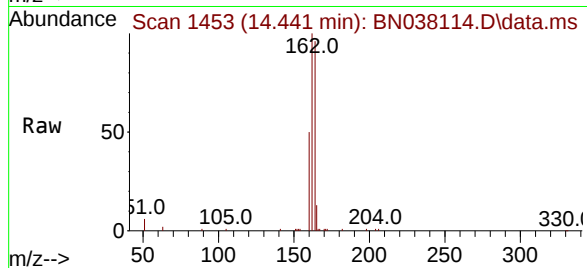
Tgt Ion:142 Resp: 38674
Ion Ratio Lower Upper
142 100
141 90.1 70.3 105.5
115 35.9 27.8 41.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

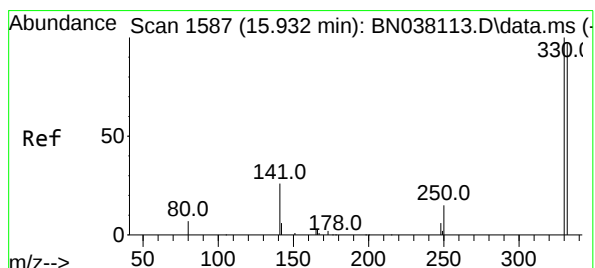
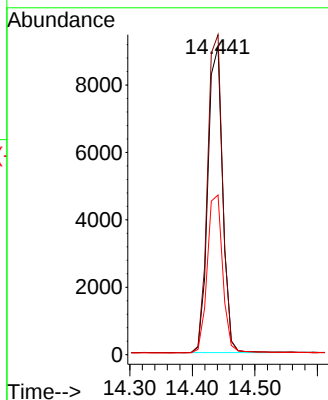
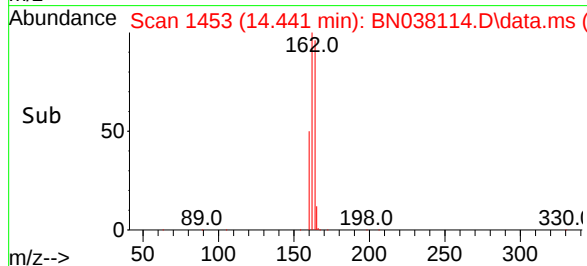
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8



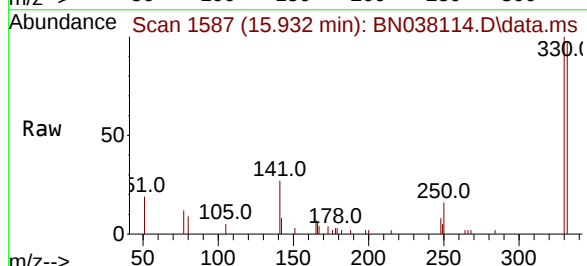
Tgt Ion:164 Resp: 14920
Ion Ratio Lower Upper
164 100
162 104.0 83.0 124.4
160 51.9 40.7 61.1

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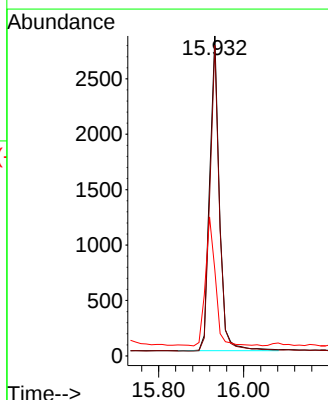
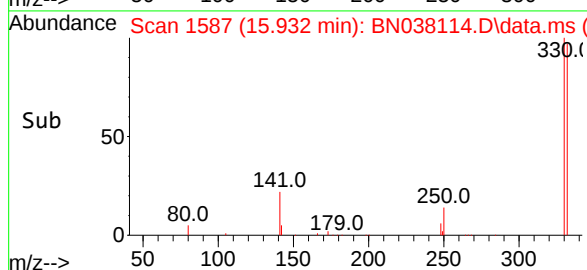
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025

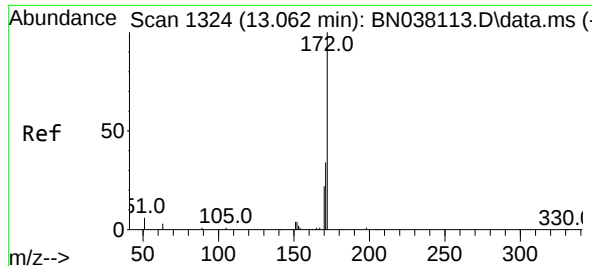


#14
2,4,6-Tribromophenol
Concen: 0.736 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49



Tgt Ion:330 Resp: 4525
Ion Ratio Lower Upper
330 100
332 95.3 76.6 114.8
141 41.9 34.1 51.1





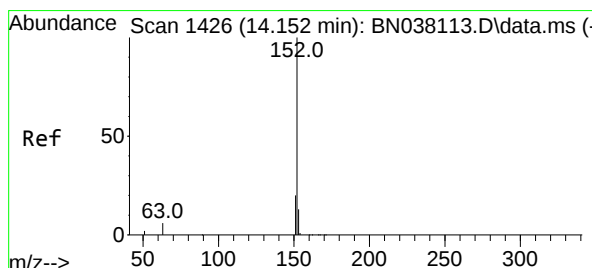
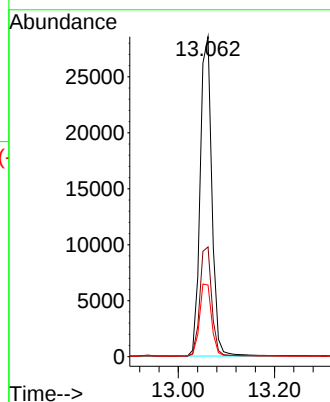
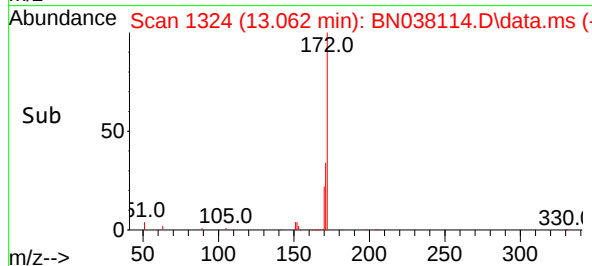
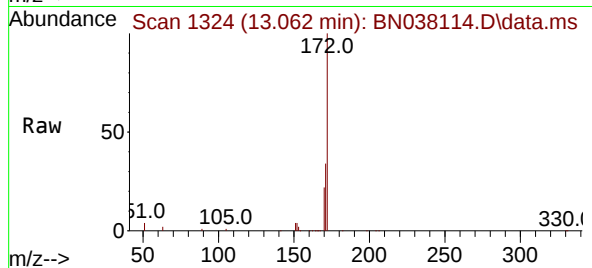
#15
2-Fluorobiphenyl
Concen: 0.784 ng
RT: 13.062 min Scan# 1324
Delta R.T. 0.011 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 4684
Ion Ratio Lower Upper
172 100
171 34.3 27.8 41.6
170 22.4 18.1 27.1

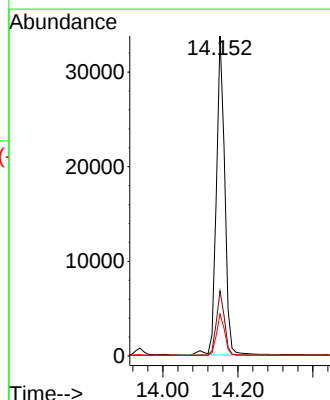
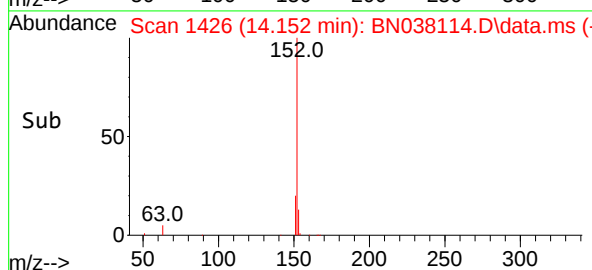
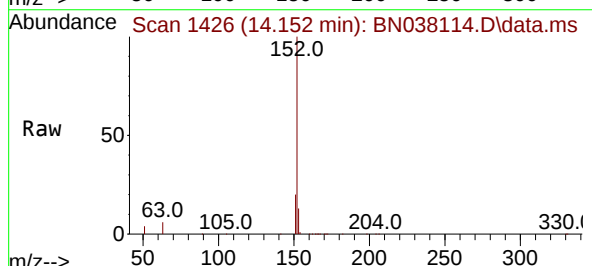
Manual Integrations
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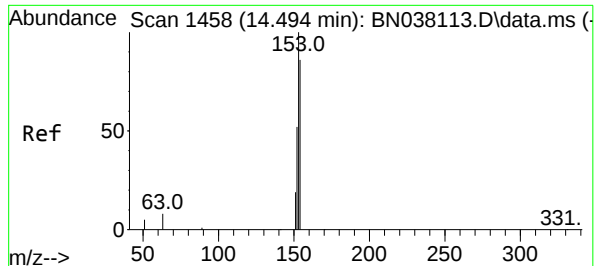
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#16
Acenaphthylene
Concen: 0.779 ng
RT: 14.152 min Scan# 1426
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

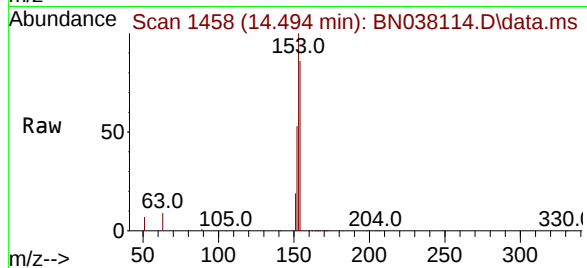
Tgt Ion:152 Resp: 52624
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 12.9 10.2 15.2





#17
Acenaphthene
Concen: 0.779 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

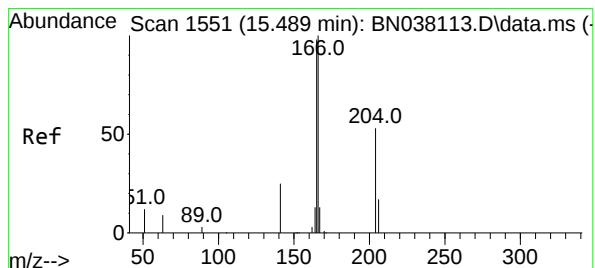
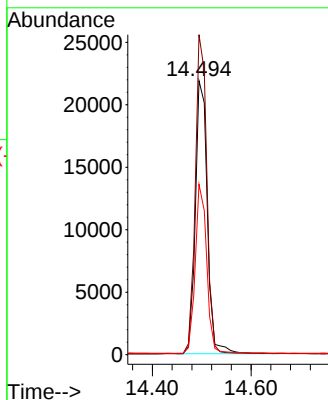
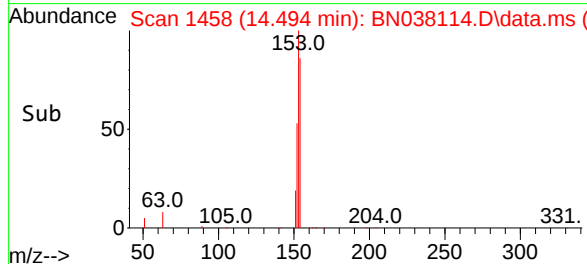
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:154 Resp: 3684
Ion Ratio Lower Upper
154 100
153 112.3 90.0 135.0
152 59.3 47.3 70.9

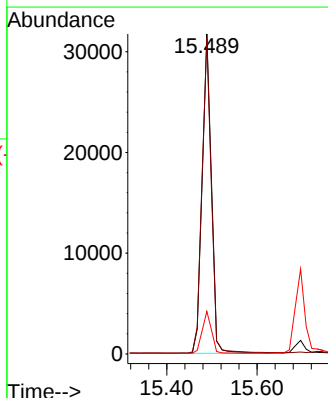
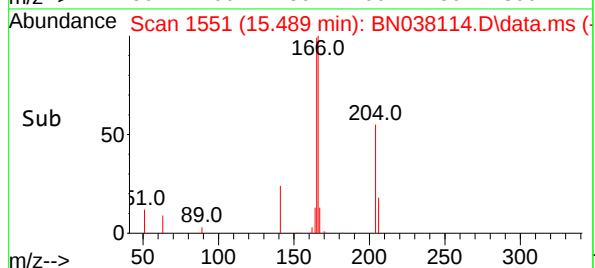
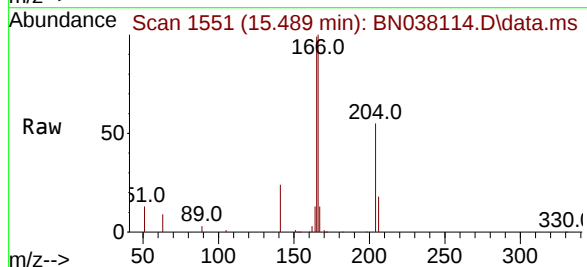
Manual Integrations
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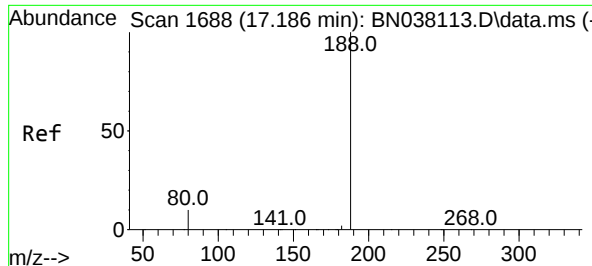
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#18
Fluorene
Concen: 0.794 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Tgt Ion:166 Resp: 49204
Ion Ratio Lower Upper
166 100
165 98.7 79.0 118.4
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

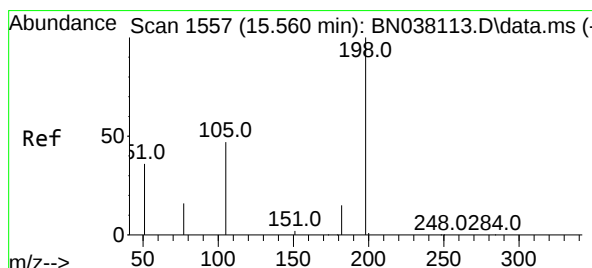
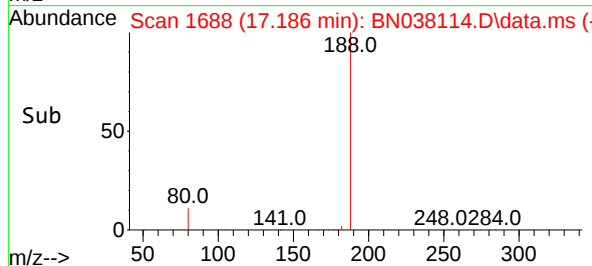
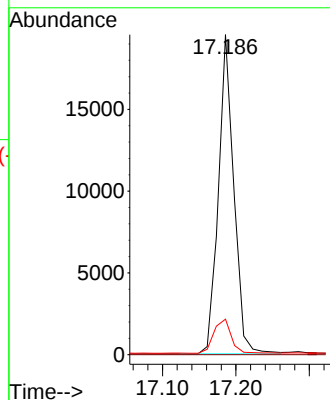
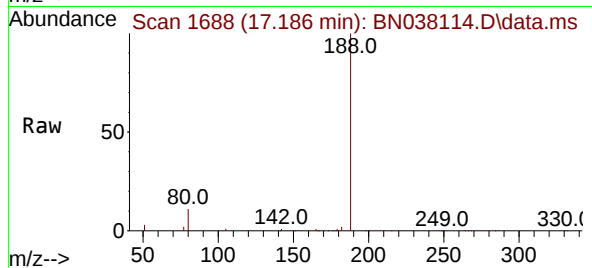
Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	8.6	13.0

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Supervised By :mohammad ahmed 10/30/2025

#20

4,6-Dinitro-2-methylphenol

Concen: 0.689 ng

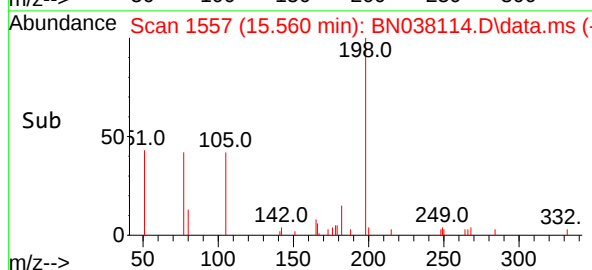
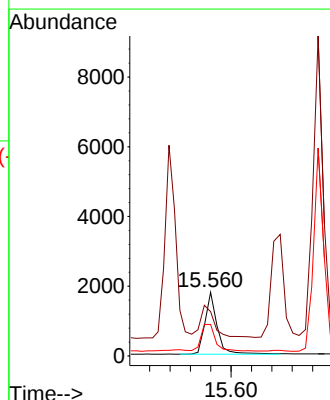
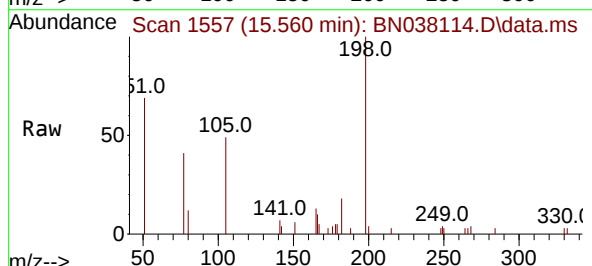
RT: 15.560 min Scan# 1557

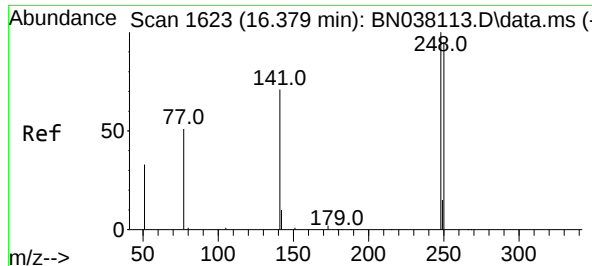
Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Tgt Ion	Ratio	Lower	Upper
198	100		
51	69.5	88.9	133.3#
105	49.4	49.2	73.8





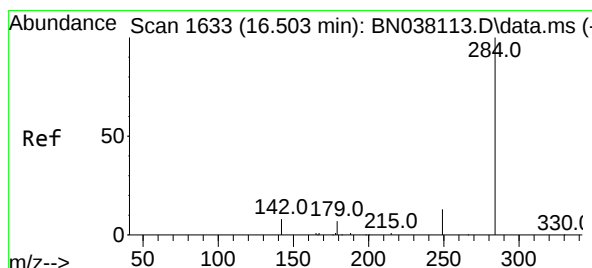
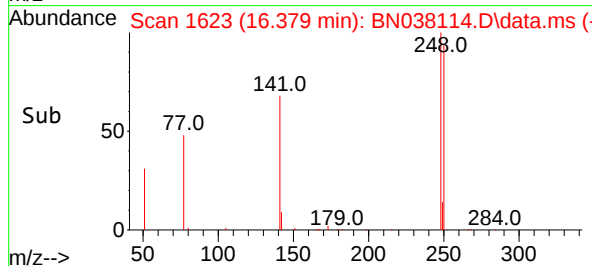
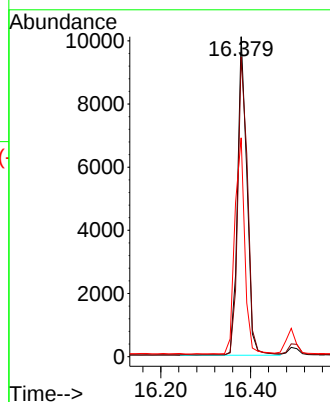
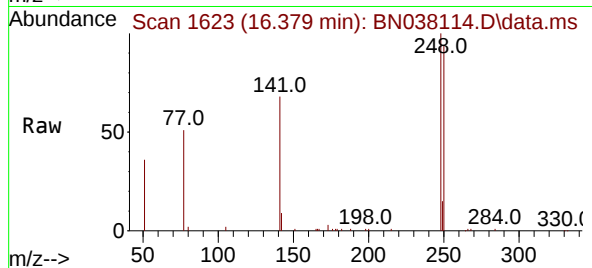
#21
4-Bromophenyl-phenylether
Concen: 0.780 ng
RT: 16.379 min Scan# 1623
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 1457
Ion Ratio Lower Upper
248 100
250 93.7 76.2 114.2
141 68.4 57.6 86.4

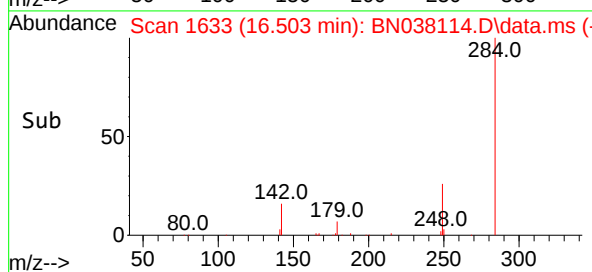
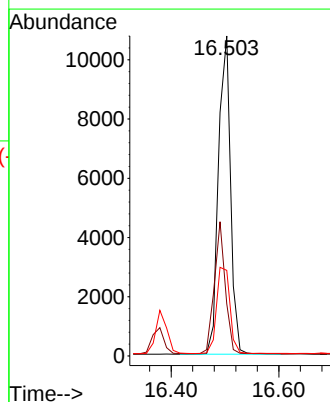
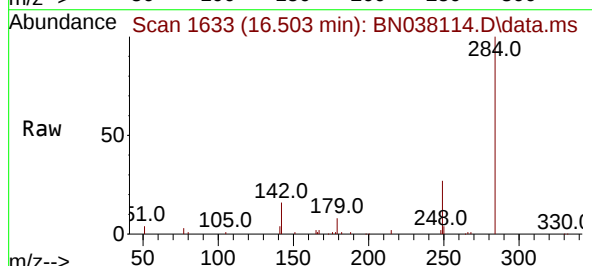
Manual Integrations
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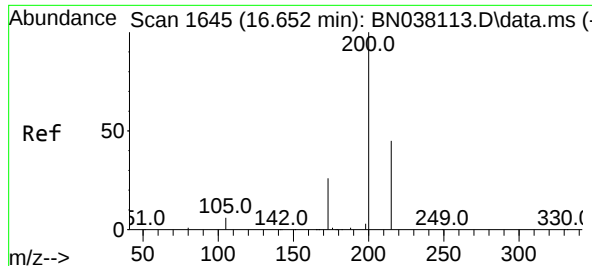
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#22
Hexachlorobenzene
Concen: 0.786 ng
RT: 16.503 min Scan# 1633
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

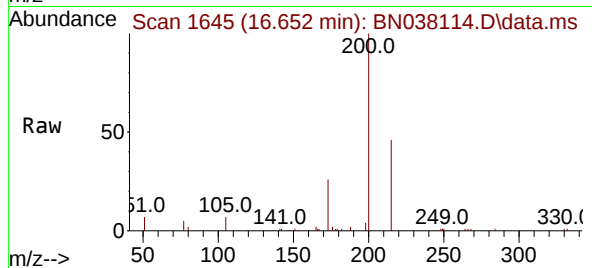
Tgt Ion:284 Resp: 16700
Ion Ratio Lower Upper
284 100
142 38.0 30.5 45.7
249 30.3 23.5 35.3





#23
Atrazine
Concen: 0.745 ng
RT: 16.652 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

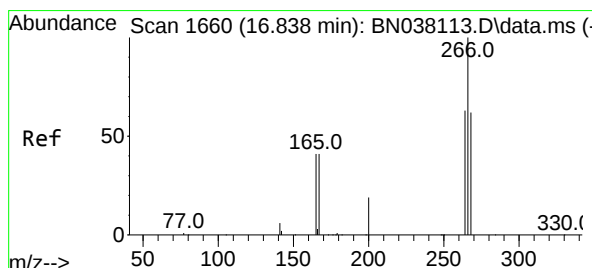
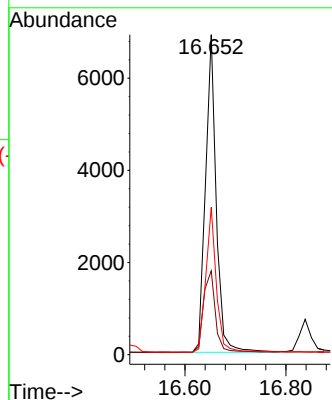
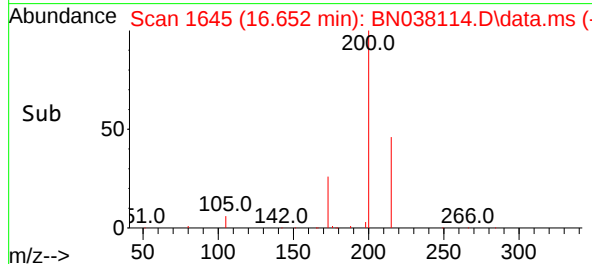
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:200 Resp: 10204
Ion Ratio Lower Upper
200 100
173 26.2 21.4 32.2
215 46.0 36.7 55.1

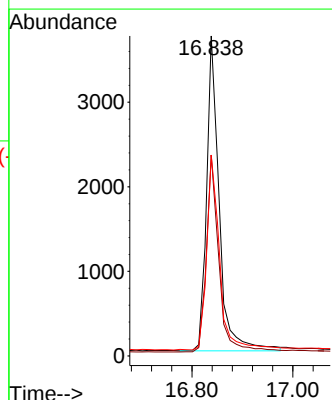
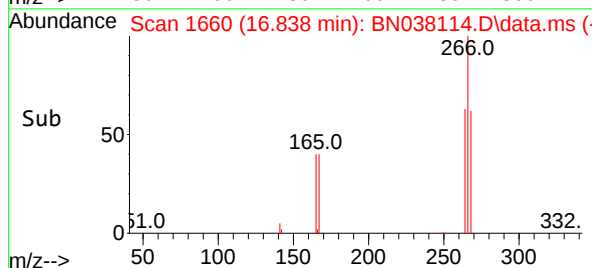
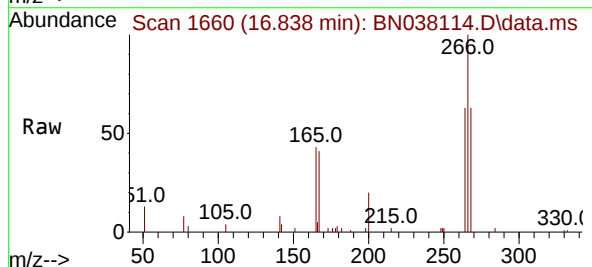
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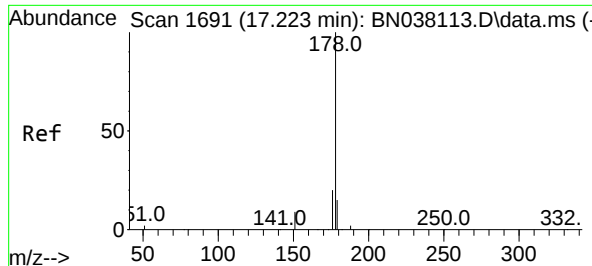
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#24
Pentachlorophenol
Concen: 0.707 ng
RT: 16.838 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

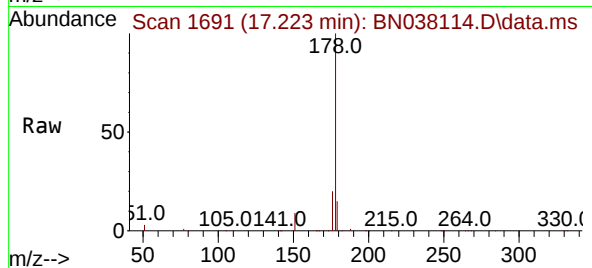
Tgt Ion:266 Resp: 6470
Ion Ratio Lower Upper
266 100
264 62.0 49.3 73.9
268 64.3 50.6 75.8





#25
Phenanthrene
Concen: 0.779 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

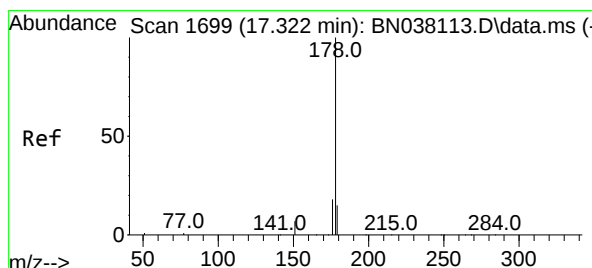
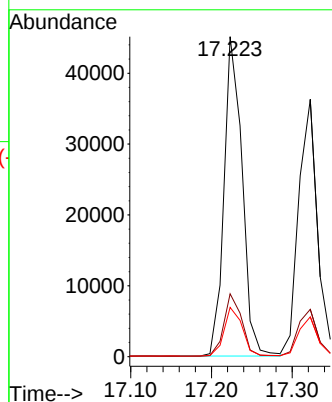
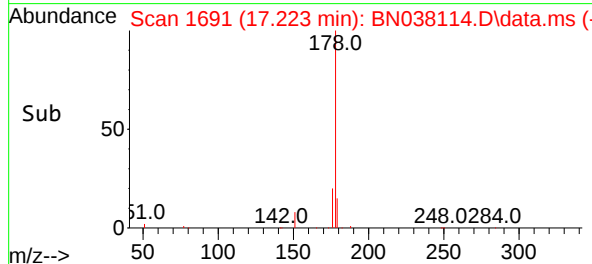
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8



Tgt Ion:178 Resp: 7045
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.3 12.2 18.4

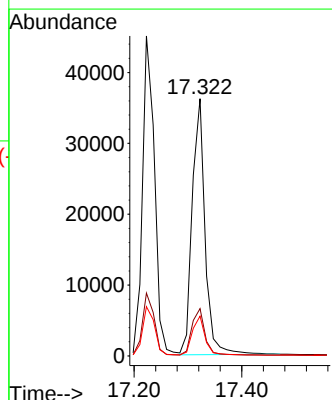
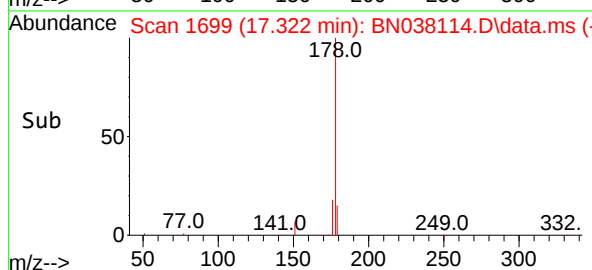
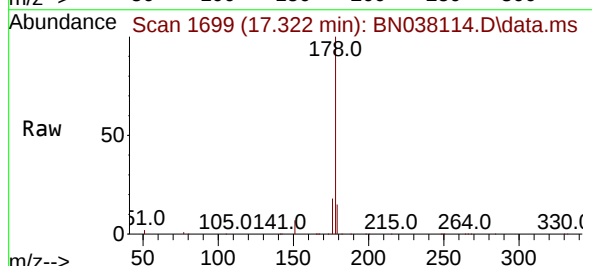
Manual Integrations
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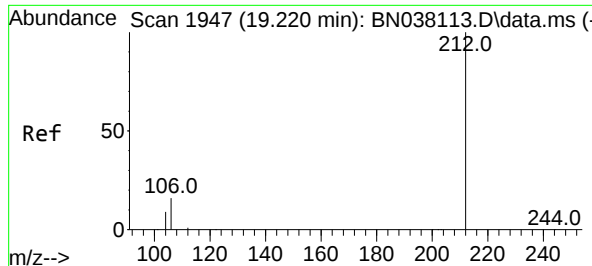
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#26
Anthracene
Concen: 0.761 ng
RT: 17.322 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Tgt Ion:178 Resp: 60270
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.778 ng

RT: 19.220 min Scan# 1947

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA_N

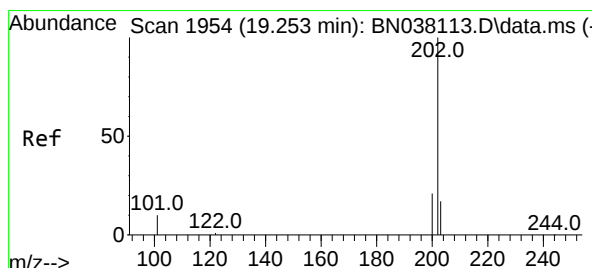
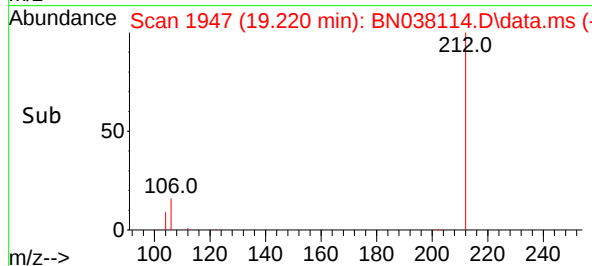
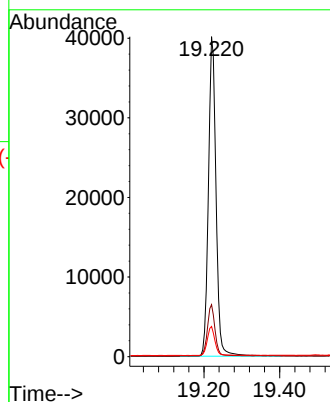
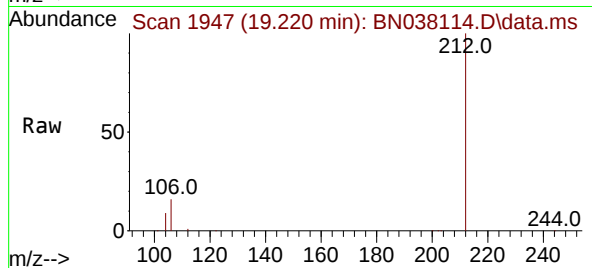
ClientSampleId :

SSTDIC0.8

Tgt Ion:	212	Resp:	5591
Ion Ratio	Lower	Upper	
212	100		
106	16.0	12.6	19.0
104	9.0	7.1	10.7

Manual Integrations
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Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#28

Fluoranthene

Concen: 0.786 ng

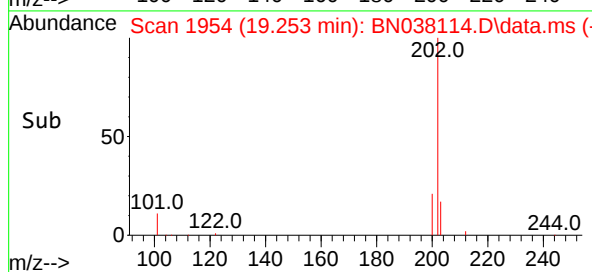
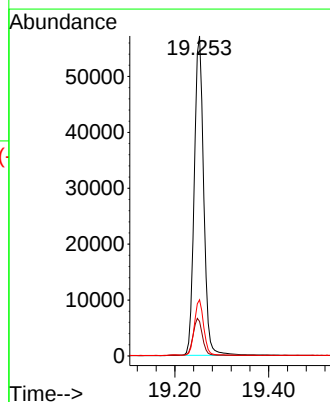
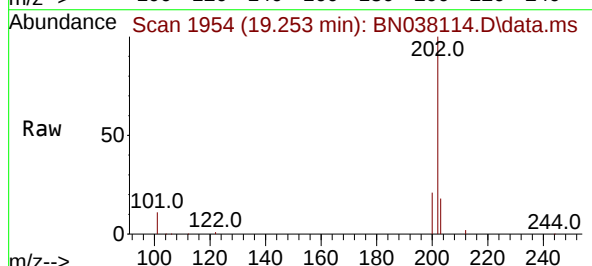
RT: 19.253 min Scan# 1954

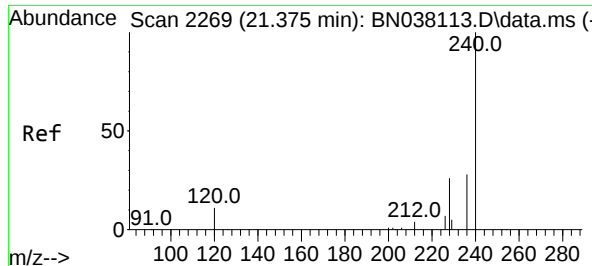
Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Tgt Ion:	202	Resp:	79478
Ion Ratio	Lower	Upper	
202	100		
101	11.8	9.4	14.2
203	17.0	13.4	20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA_N

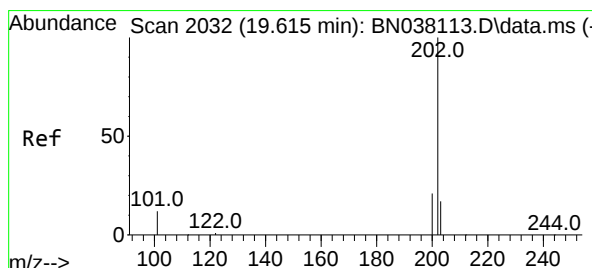
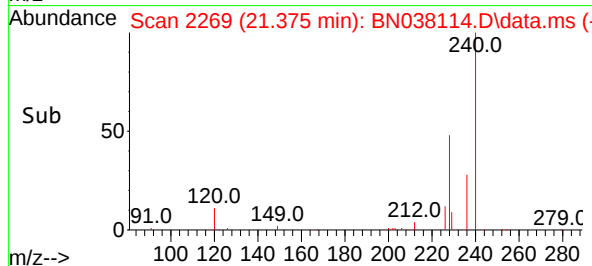
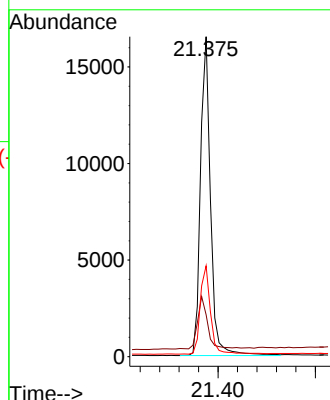
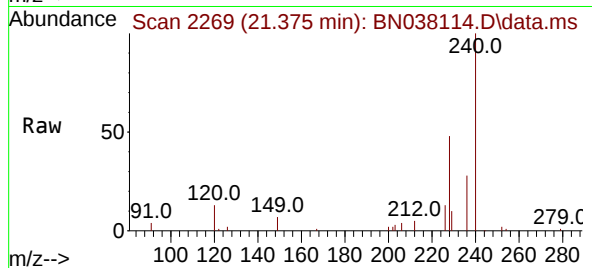
ClientSampleId :

SSTDIC0.8

Tgt Ion:240	Resp:	2353
Ion Ratio	Lower	Upper
240	100	
120	13.1	10.7 16.1
236	28.4	23.1 34.7

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#30

Pyrene

Concen: 0.737 ng

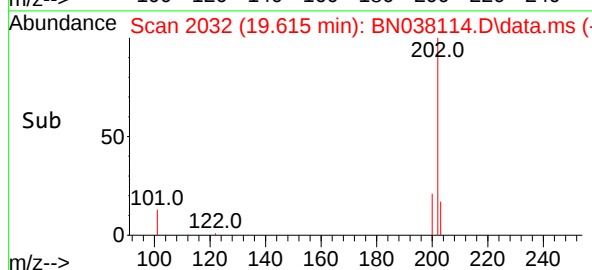
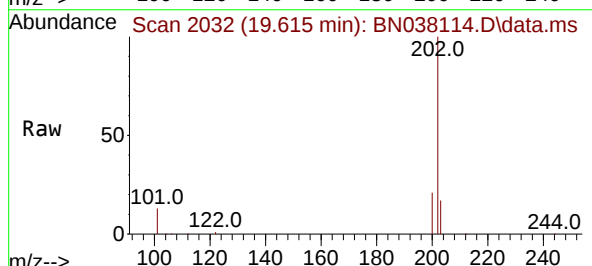
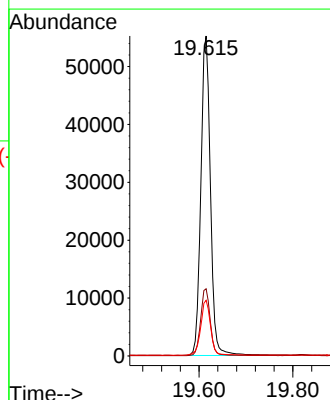
RT: 19.615 min Scan# 2032

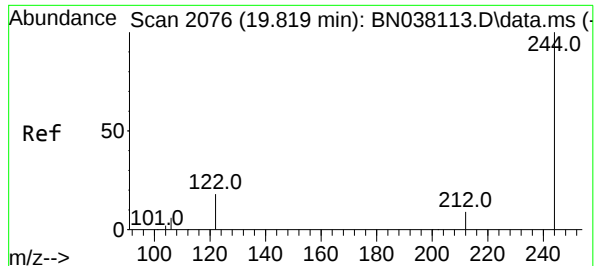
Delta R.T. 0.005 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Tgt Ion:202	Resp:	78307
Ion Ratio	Lower	Upper
202	100	
200	21.2	16.7 25.1
203	17.7	14.2 21.2





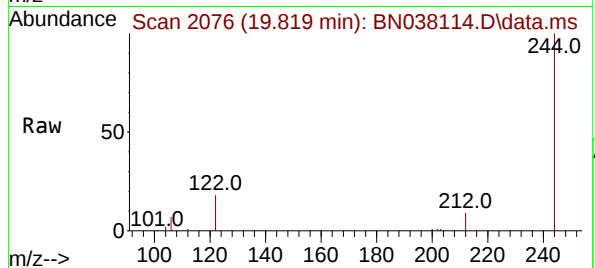
#31
Terphenyl-d14
Concen: 0.743 ng
RT: 19.819 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



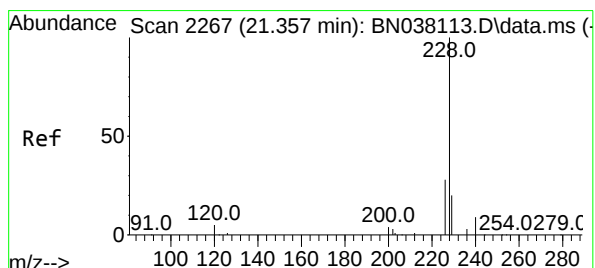
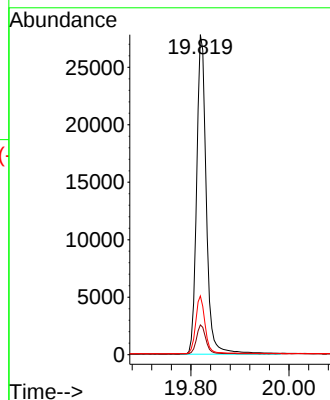
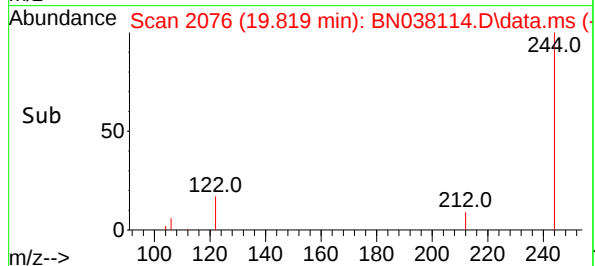
Tgt Ion:244 Resp: 37975
Ion Ratio Lower Upper
244 100
212 9.3 7.8 11.6
122 18.4 15.2 22.8

Manual Integrations

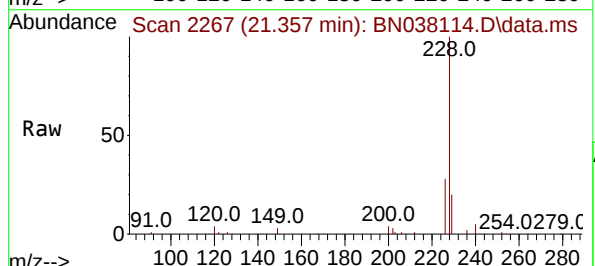
APPROVED

Reviewed By :Rahul Chavli 10/29/2025

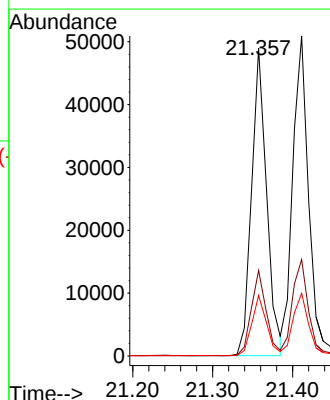
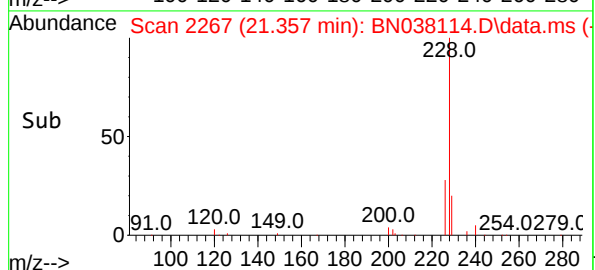
Supervised By :mohammad ahmed 10/30/2025

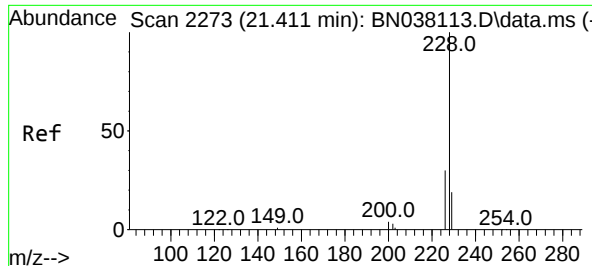


#32
Benzo(a)anthracene
Concen: 0.764 ng
RT: 21.357 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN038114.D
Acq: 28 Oct 2025 14:49



Tgt Ion:228 Resp: 64140
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.4
229 19.6 15.8 23.8





#33

Chrysene

Concen: 0.787 ng

RT: 21.411 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA_N

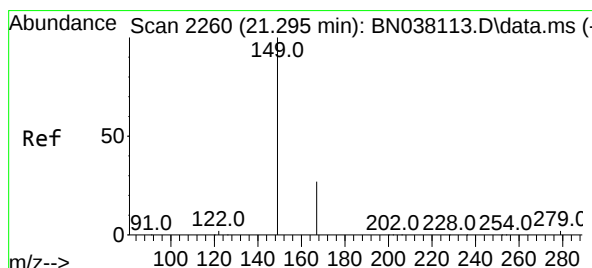
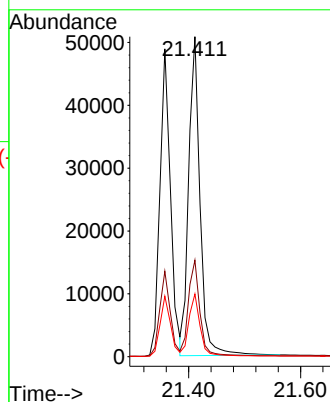
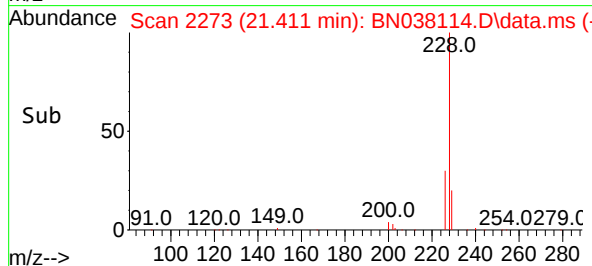
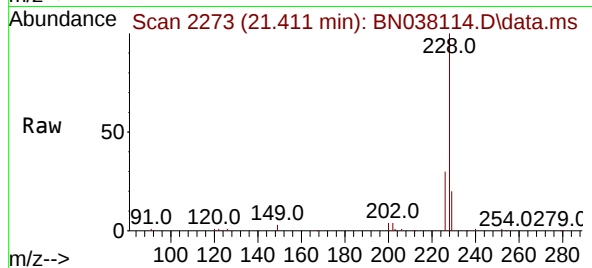
ClientSampleId :

SSTDICC0.8

Tgt Ion:	228	Resp:	7167
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.3	36.5
229	19.6	15.7	23.5

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.745 ng

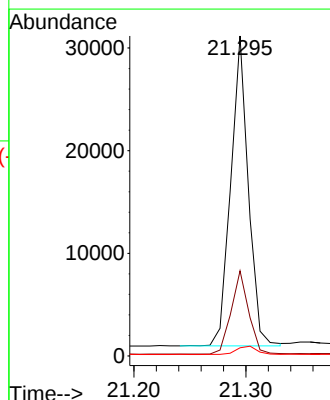
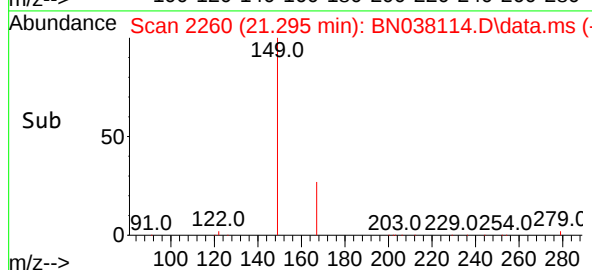
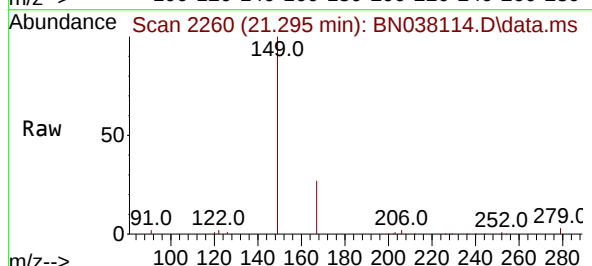
RT: 21.295 min Scan# 2260

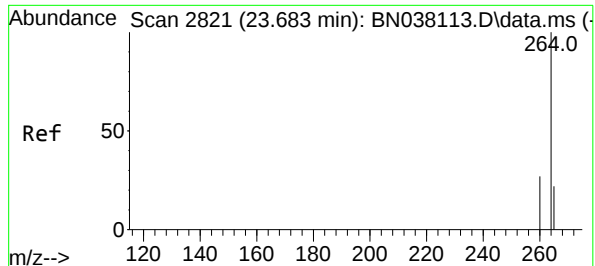
Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Tgt Ion:	149	Resp:	32963
Ion Ratio	Lower	Upper	
149	100		
167	26.8	21.1	31.7
279	3.1	2.9	4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.683 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038114.D

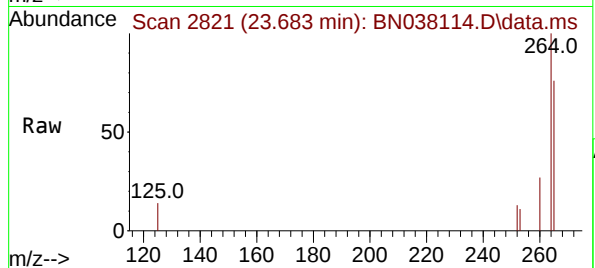
Acq: 28 Oct 2025 14:49

Instrument :

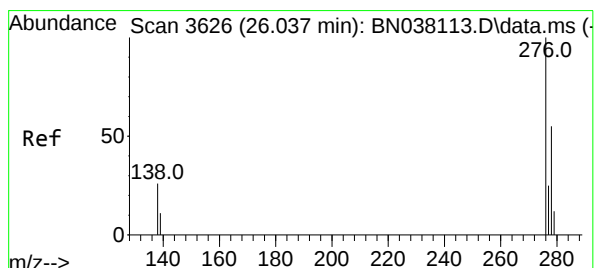
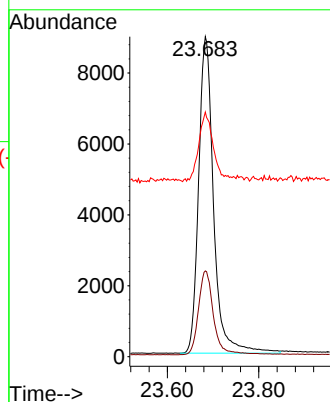
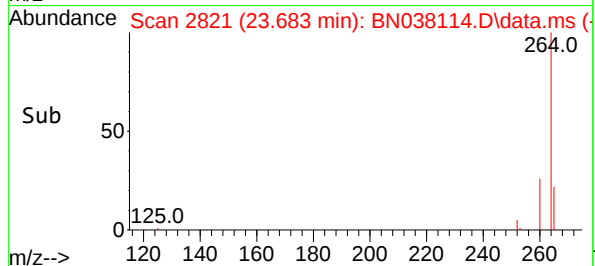
BNA_N

ClientSampleId :

SSTDIC0.8



Tgt Ion:	264	Resp:	2030
Ion Ratio	Lower	Upper	
264	100		
260	26.8	21.8	32.8
265	76.5	68.6	102.8

Manual Integrations
APPROVEDReviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025

#36

Indeno(1,2,3-cd)pyrene

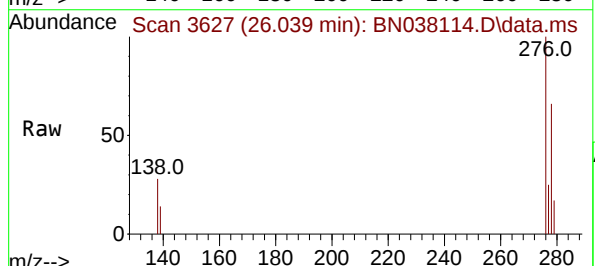
Concen: 0.789 ng

RT: 26.039 min Scan# 3627

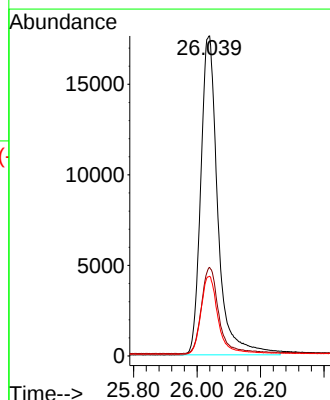
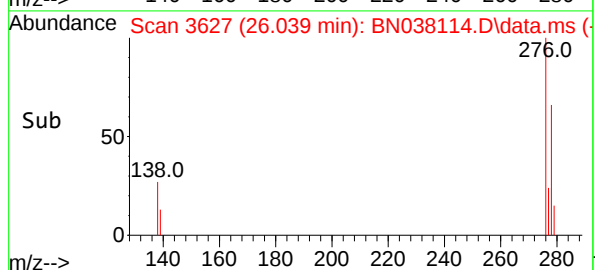
Delta R.T. 0.006 min

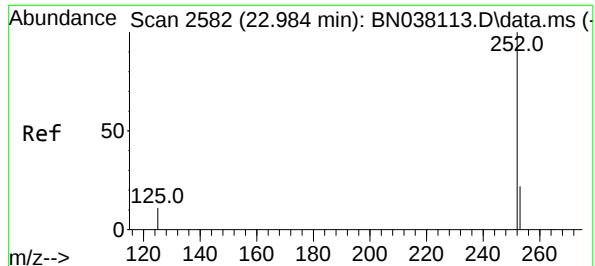
Lab File: BN038114.D

Acq: 28 Oct 2025 14:49



Tgt Ion:	276	Resp:	65796
Ion Ratio	Lower	Upper	
276	100		
138	27.3	21.4	32.0
277	24.7	19.2	28.8





#37

Benzo(b)fluoranthene

Concen: 0.805 ng m

RT: 22.984 min Scan# 2582

Delta R.T. 0.003 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

Tgt Ion:252 Resp: 6991

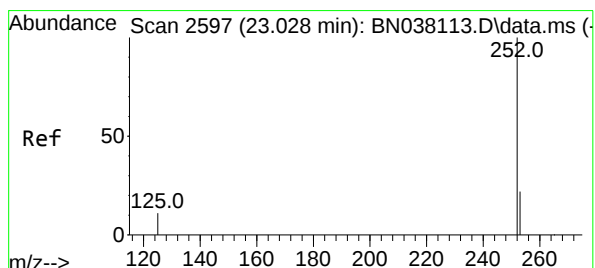
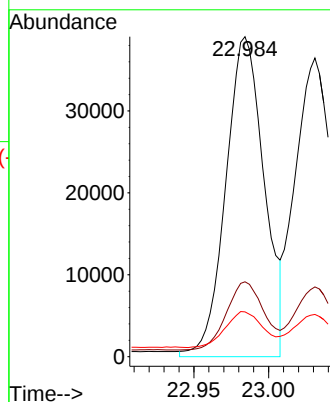
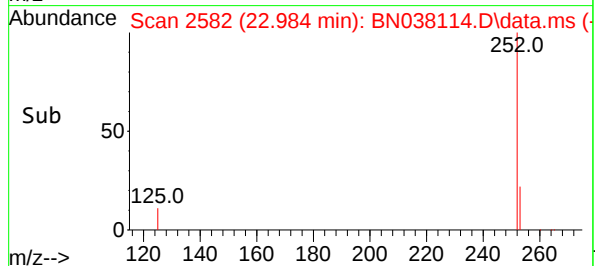
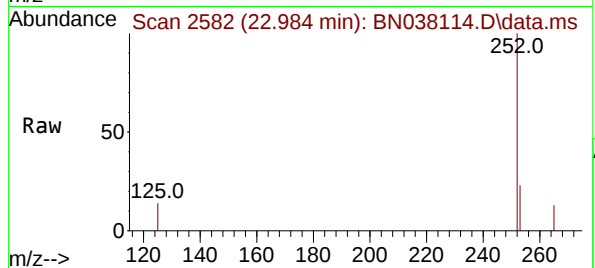
Ion	Ratio	Lower	Upper
252	100		
253	23.4	20.9	31.3
125	14.0	14.1	21.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 10/30/2025



#38

Benzo(k)fluoranthene

Concen: 0.776 ng

RT: 23.031 min Scan# 2598

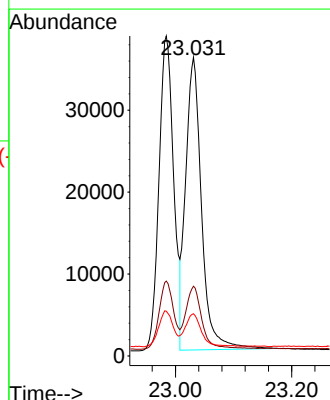
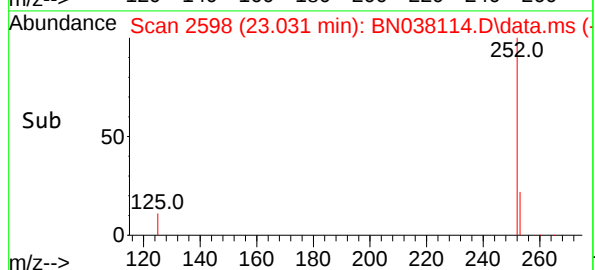
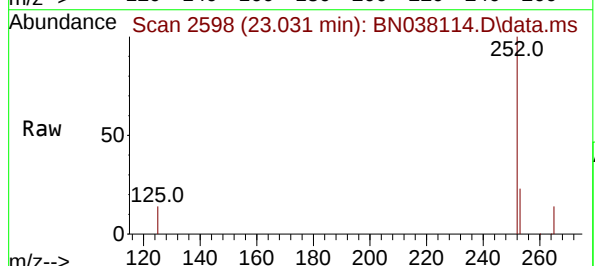
Delta R.T. 0.003 min

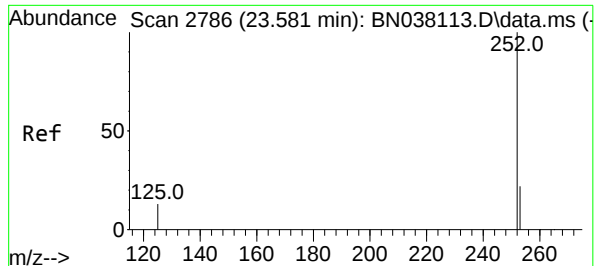
Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Tgt Ion:252 Resp: 67771

Ion	Ratio	Lower	Upper
252	100		
253	23.4	21.2	31.8
125	14.2	14.6	22.0





#39

Benzo(a)pyrene

Concen: 0.768 ng

RT: 23.578 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Instrument :

BNA_N

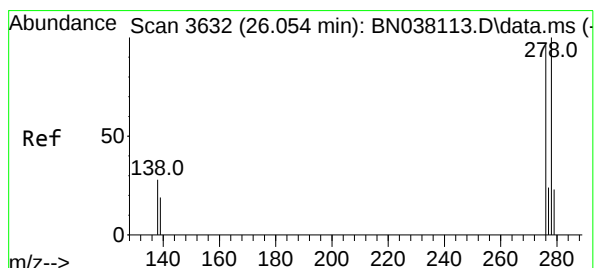
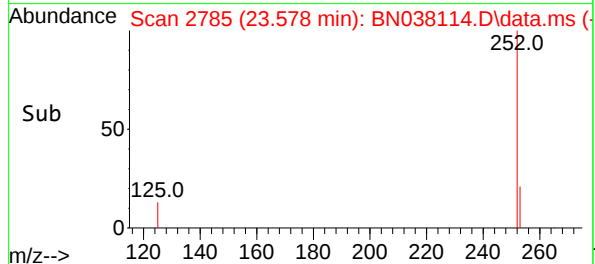
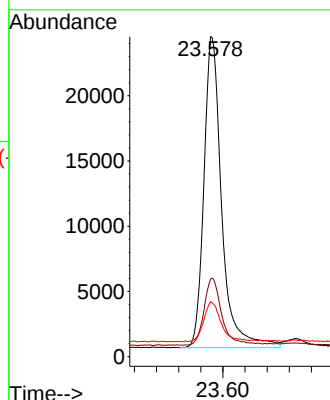
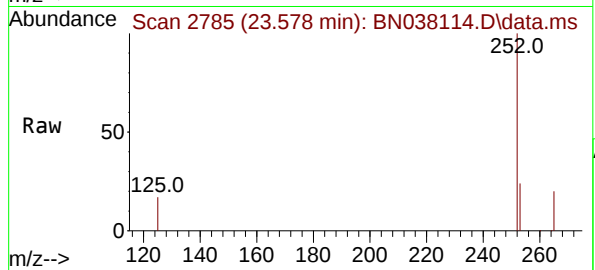
ClientSampleId :

SSTDIC0.8

Tgt Ion:	252	Resp:	5336
Ion Ratio	Lower	Upper	
252	100		
253	24.4	23.1	34.7
125	17.2	18.6	28.0

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 10/30/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.784 ng

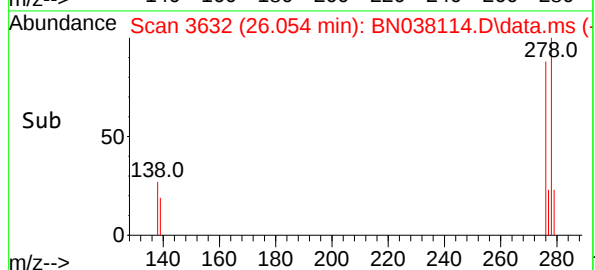
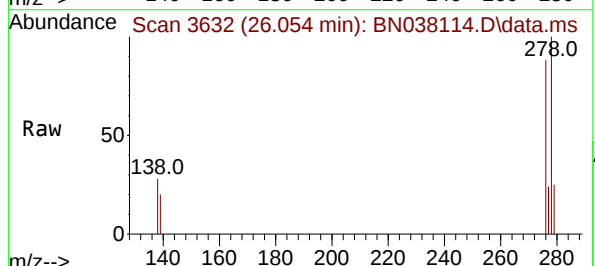
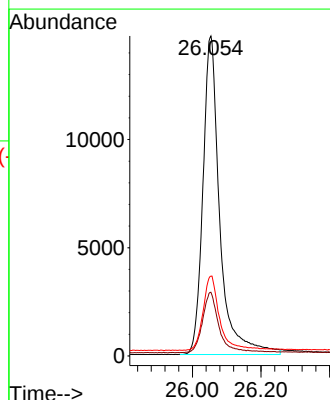
RT: 26.054 min Scan# 3632

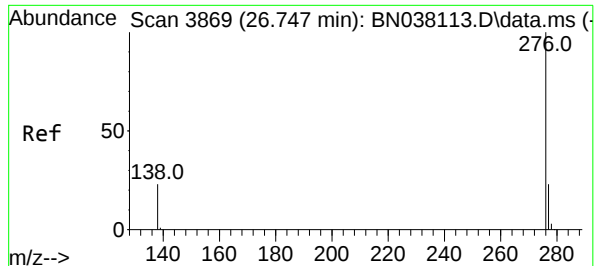
Delta R.T. 0.006 min

Lab File: BN038114.D

Acq: 28 Oct 2025 14:49

Tgt Ion:	278	Resp:	50344
Ion Ratio	Lower	Upper	
278	100		
139	19.9	17.6	26.4
279	25.0	22.6	33.8





#41

Benzo(g,h,i)perylene

Concen: 0.793 ng

RT: 26.753 min Scan# 3869

Delta R.T. 0.003 min

Lab File: BN038114.D

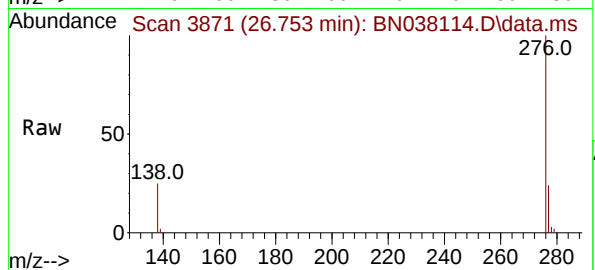
Acq: 28 Oct 2025 14:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:276 Resp: 5815

Ion Ratio Lower Upper

276 100

277 24.0 19.7 29.5

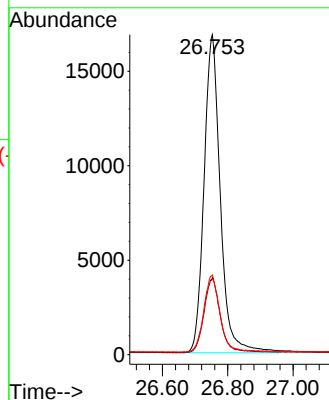
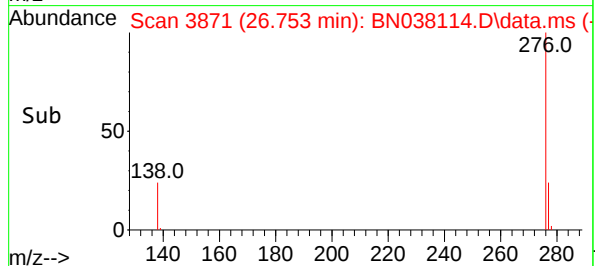
138 24.9 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 10/30/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038115.D
 Acq On : 28 Oct 2025 15:25
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Oct 28 17:31:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 17:15:13 2025
 Response via : Initial Calibration

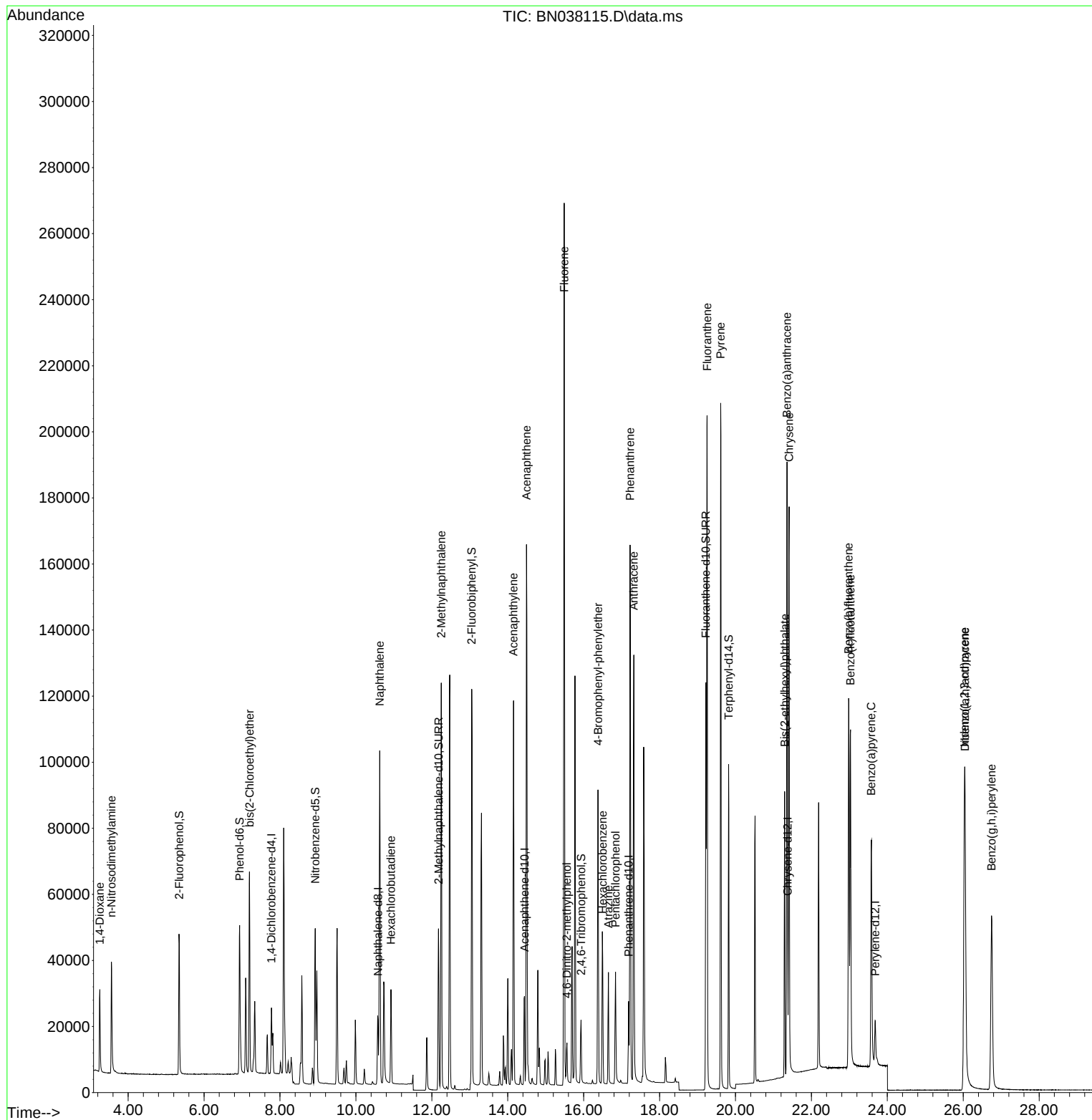
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	9872	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	29279	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	16624	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	31469	0.400	ng	0.00
29) Chrysene-d12	21.375	240	25173	0.400	ng	0.00
35) Perylene-d12	23.680	264	19529	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	36286	1.560	ng	0.00
5) Phenol-d6	6.937	99	44651	1.576	ng	0.00
8) Nitrobenzene-d5	8.929	82	36991	1.566	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	68673	1.642	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	11390	1.663	ng	0.00
15) 2-Fluorobiphenyl	13.051	172	107386	1.613	ng	0.00
27) Fluoranthene-d10	19.220	212	132146	1.665	ng	0.00
31) Terphenyl-d14	19.819	244	89776	1.642	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.254	88	16443	1.612	ng	99
3) n-Nitrosodimethylamine	3.557	42	21596	1.645	ng	96
6) bis(2-Chloroethyl)ether	7.197	93	45315	1.628	ng	99
9) Naphthalene	10.626	128	131755	1.634	ng	99
10) Hexachlorobutadiene	10.925	225	22006	1.617	ng	# 99
12) 2-Methylnaphthalene	12.248	142	88687	1.649	ng	99
16) Acenaphthylene	14.152	152	125798	1.671	ng	99
17) Acenaphthene	14.495	154	87659	1.664	ng	98
18) Fluorene	15.489	166	117574	1.703	ng	100
20) 4,6-Dinitro-2-methylph...	15.560	198	7997	1.534	ng	# 54
21) 4-Bromophenyl-phenylether	16.379	248	34434	1.669	ng	95
22) Hexachlorobenzene	16.503	284	38518	1.642	ng	99
23) Atrazine	16.652	200	25585	1.693	ng	97
24) Pentachlorophenol	16.838	266	16638	1.646	ng	99
25) Phenanthrene	17.223	178	166989	1.671	ng	100
26) Anthracene	17.322	178	148754	1.702	ng	100
28) Fluoranthene	19.253	202	187774	1.682	ng	99
30) Pyrene	19.610	202	184735	1.626	ng	100
32) Benzo(a)anthracene	21.358	228	147889	1.647	ng	99
33) Chrysene	21.411	228	156927	1.610	ng	99
34) Bis(2-ethylhexyl)phtha...	21.295	149	72607	1.535	ng	99
36) Indeno(1,2,3-cd)pyrene	26.031	276	135169	1.685	ng	99
37) Benzo(b)fluoranthene	22.981	252	141041	1.689	ng	# 91
38) Benzo(k)fluoranthene	23.028	252	143019	1.702	ng	# 90
39) Benzo(a)pyrene	23.578	252	110949	1.660	ng	# 85
40) Dibenzo(a,h)anthracene	26.048	278	105589	1.710	ng	92
41) Benzo(g,h,i)perylene	26.747	276	117071	1.660	ng	98

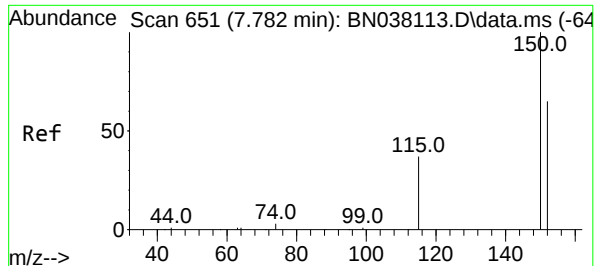
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038115.D
Acq On : 28 Oct 2025 15:25
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Oct 28 17:31:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 17:15:13 2025
Response via : Initial Calibration

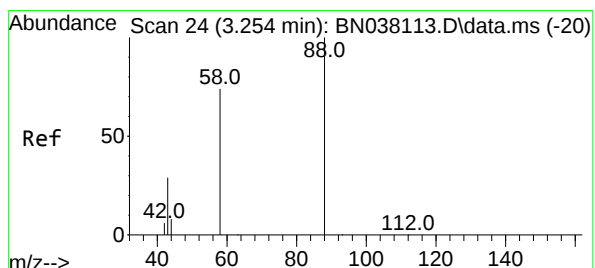
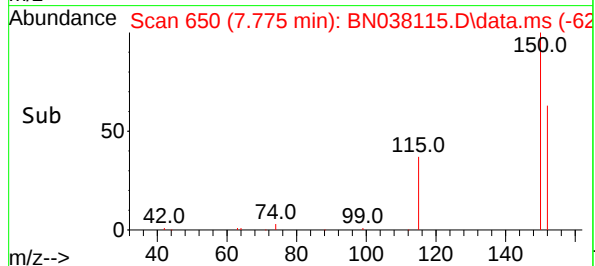
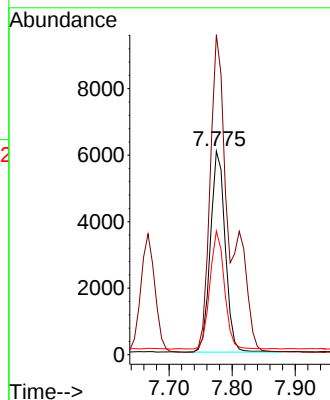
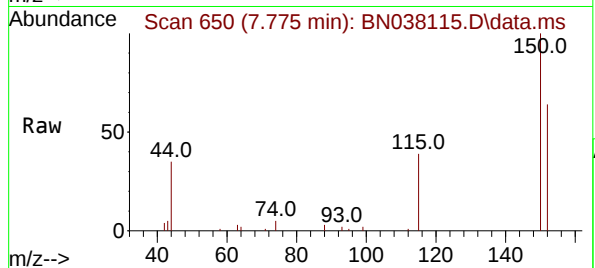




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

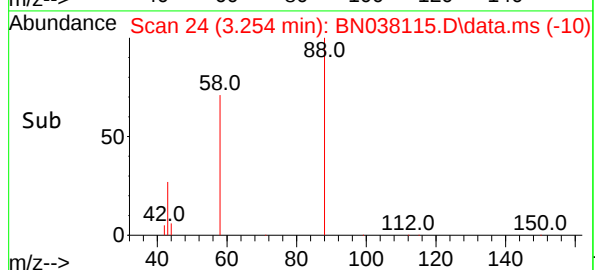
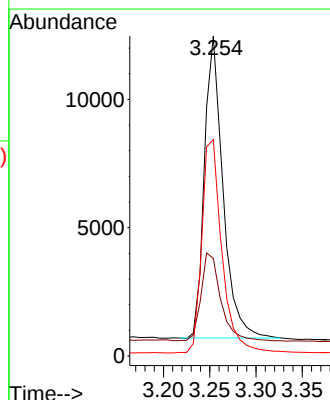
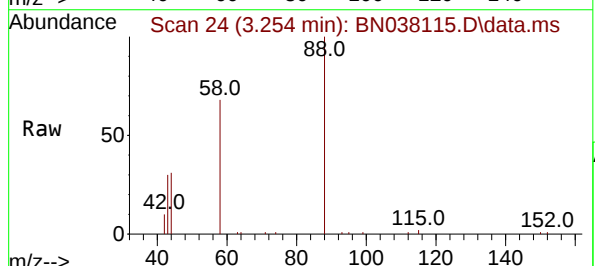
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

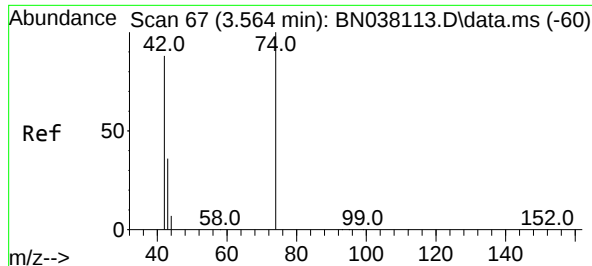
Tgt Ion:152 Resp: 9872
Ion Ratio Lower Upper
152 100
150 157.2 122.3 183.5
115 60.8 47.4 71.0



#2
1,4-Dioxane
Concen: 1.612 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion: 88 Resp: 16443
Ion Ratio Lower Upper
88 100
43 30.7 24.3 36.5
58 76.6 60.4 90.6

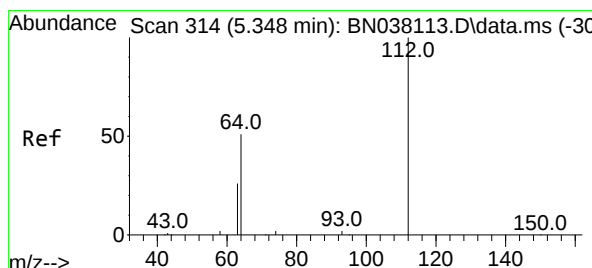
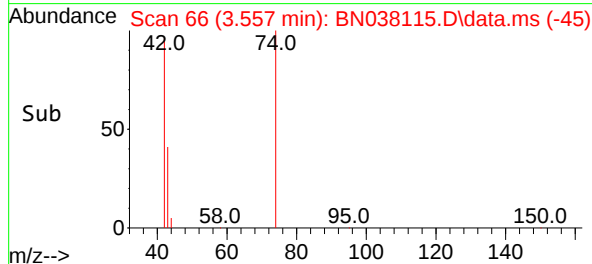
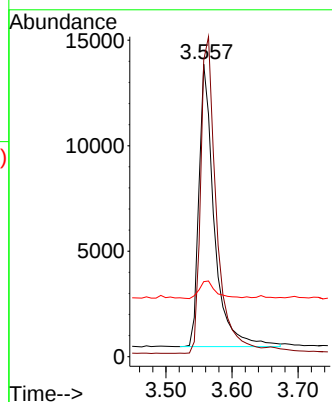
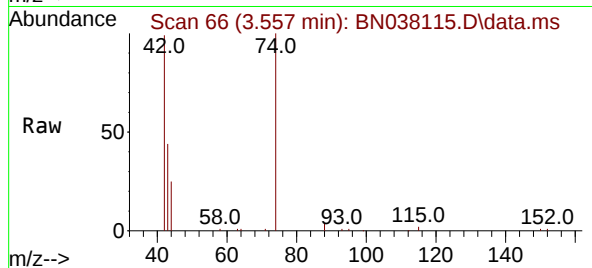




#3
n-Nitrosodimethylamine
Concen: 1.645 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

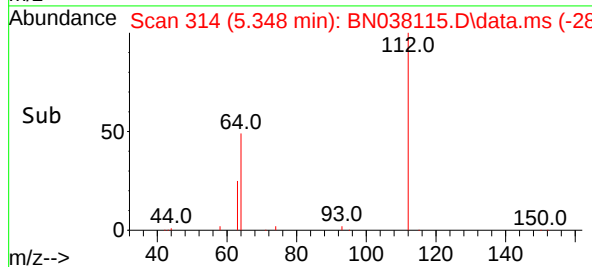
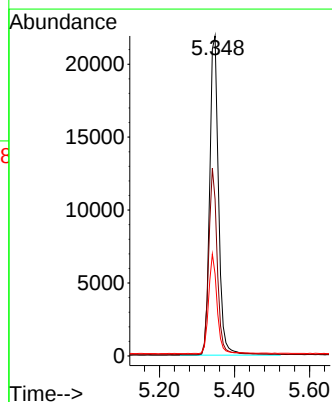
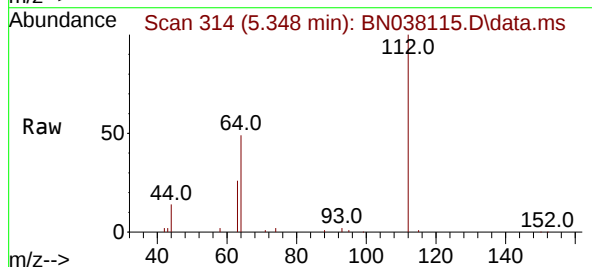
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

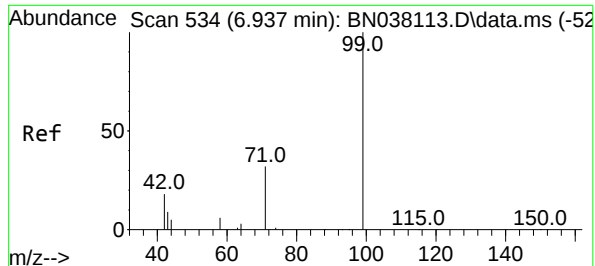
Tgt Ion: 42 Resp: 21596
Ion Ratio Lower Upper
42 100
74 115.8 96.8 145.2
44 6.3 5.3 7.9



#4
2-Fluorophenol
Concen: 1.560 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion: 112 Resp: 36286
Ion Ratio Lower Upper
112 100
64 56.2 45.4 68.0
63 29.9 23.2 34.8

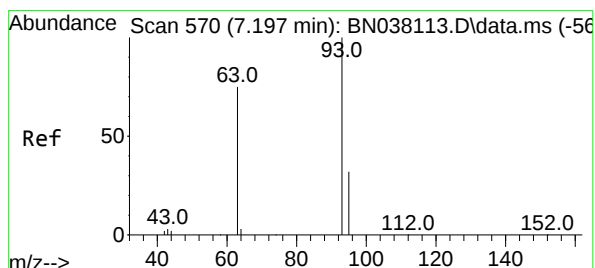
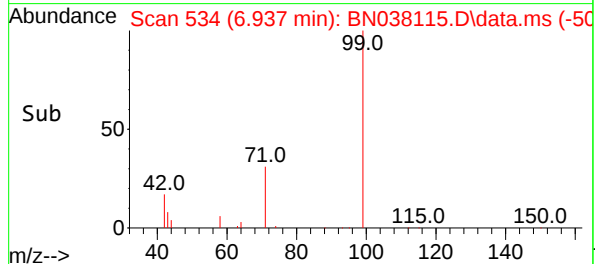
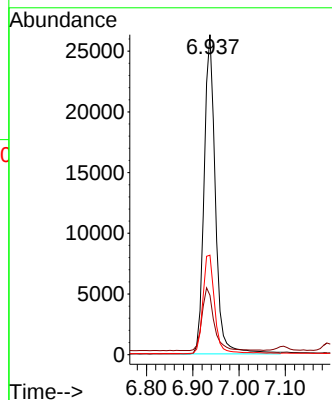
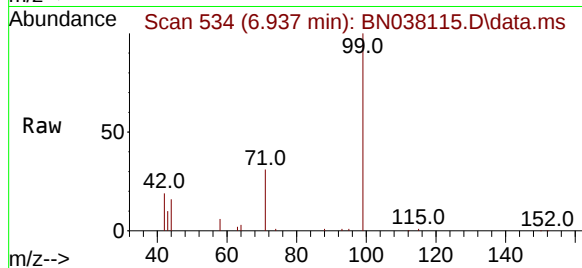




#5
Phenol-d6
Concen: 1.576 ng
RT: 6.937 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

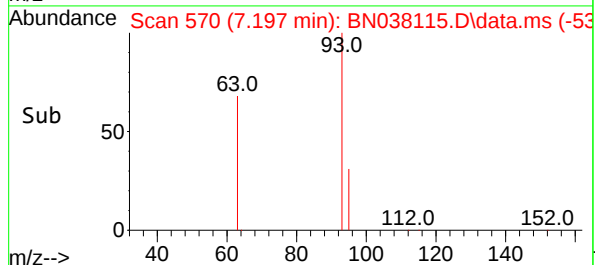
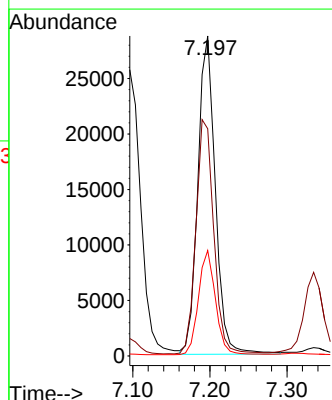
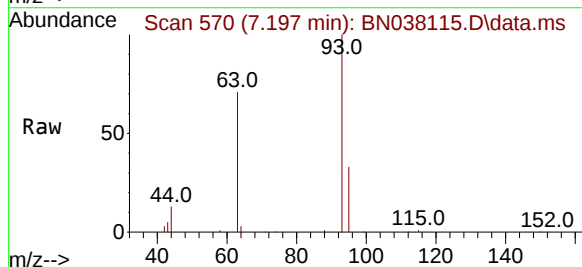
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

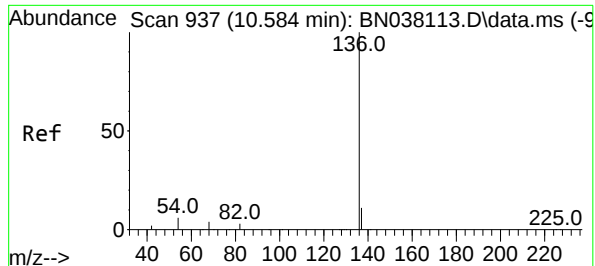
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.8	16.6	24.8
71	32.5	25.4	38.2



#6
bis(2-Chloroethyl)ether
Concen: 1.628 ng
RT: 7.197 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion	Ratio	Lower	Upper
93	100		
63	74.8	59.3	88.9
95	31.9	25.2	37.8

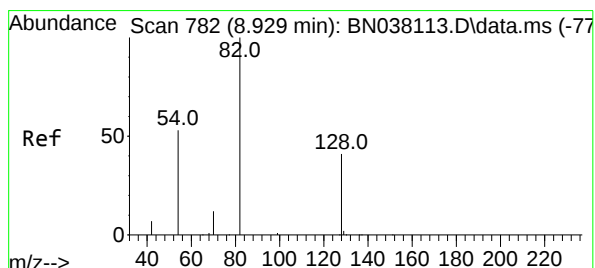
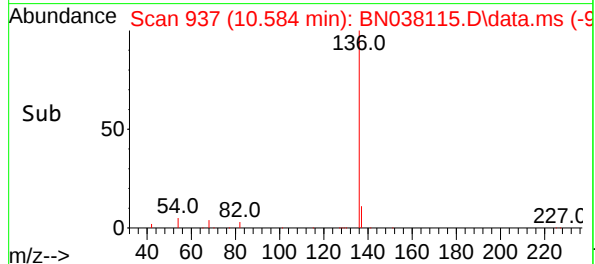
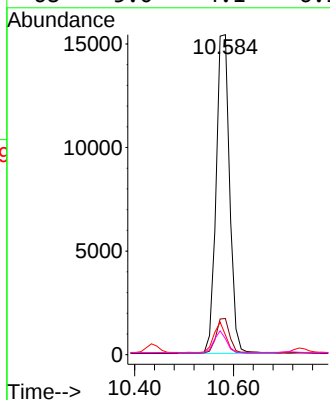
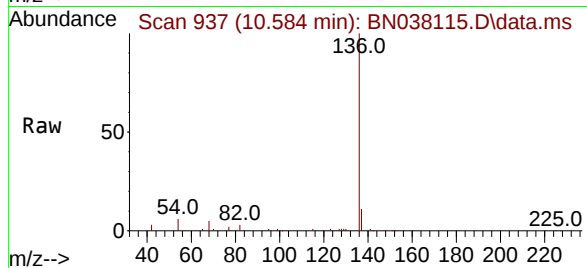




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

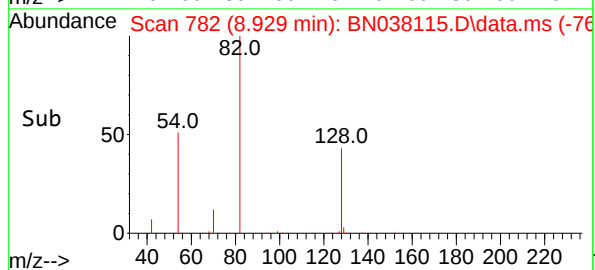
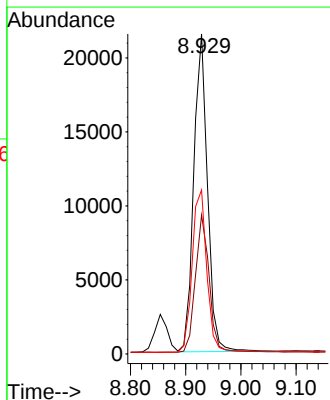
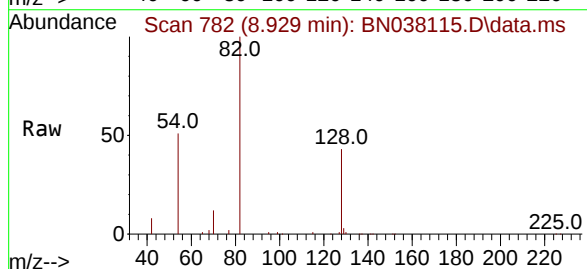
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

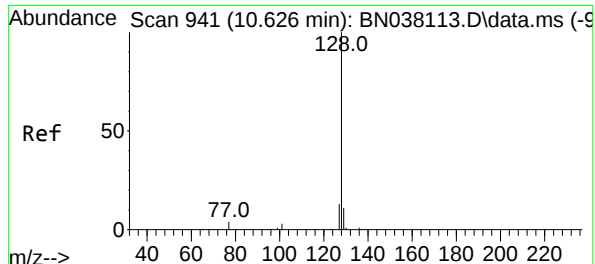
Tgt Ion:	136	Resp:	29279
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.1	5.2	7.8
68	5.0	4.1	6.1



#8
Nitrobenzene-d5
Concen: 1.566 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion:	82	Resp:	36991
Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.1	51.1
54	51.3	43.5	65.3





#9

Naphthalene

Concen: 1.634 ng

RT: 10.626 min Scan# 941

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

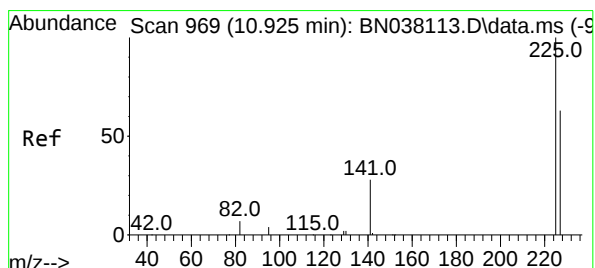
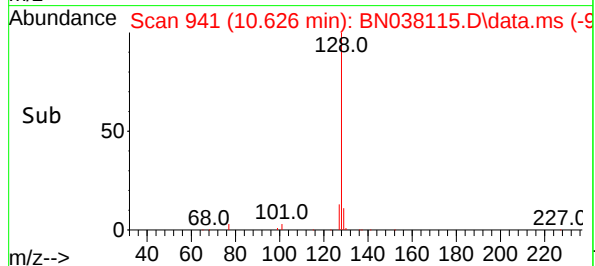
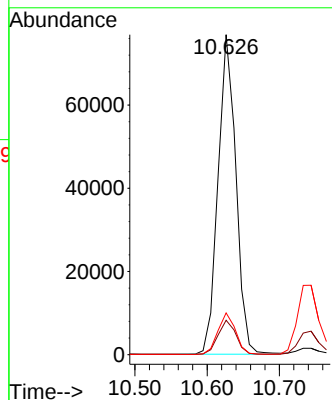
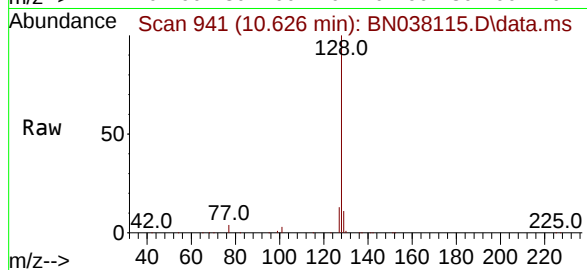
Tgt Ion:128 Resp: 131755

Ion Ratio Lower Upper

128 100

129 10.8 9.1 13.7

127 13.1 10.5 15.7



#10

Hexachlorobutadiene

Concen: 1.617 ng

RT: 10.925 min Scan# 969

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

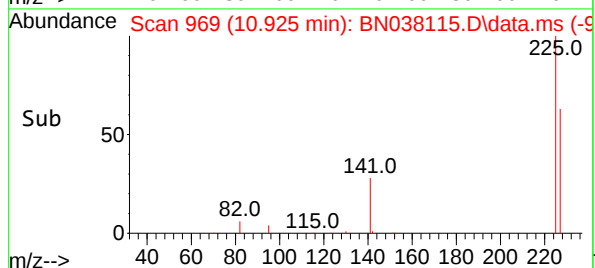
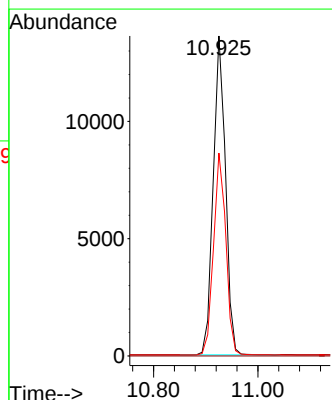
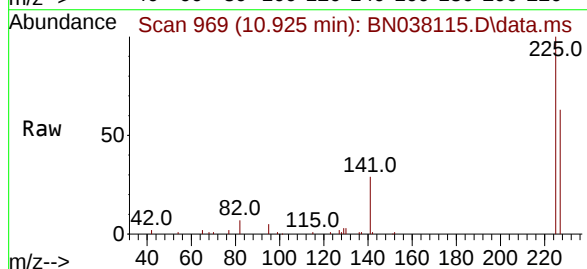
Tgt Ion:225 Resp: 22006

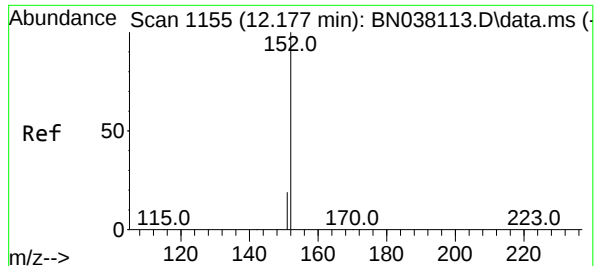
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 50.3 75.5

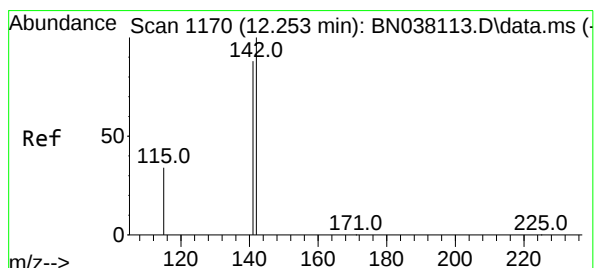
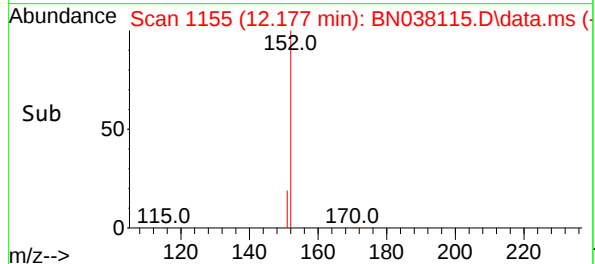
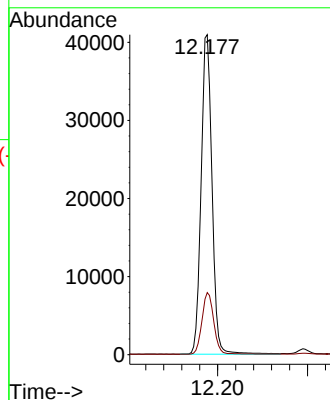
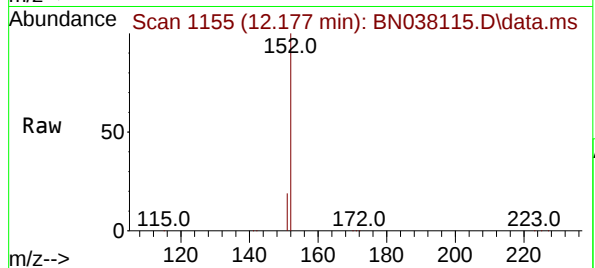




#11
2-Methylnaphthalene-d10
Concen: 1.642 ng
RT: 12.177 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

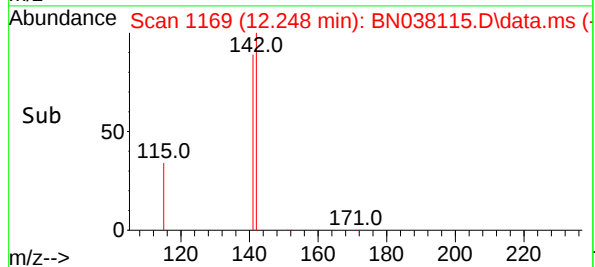
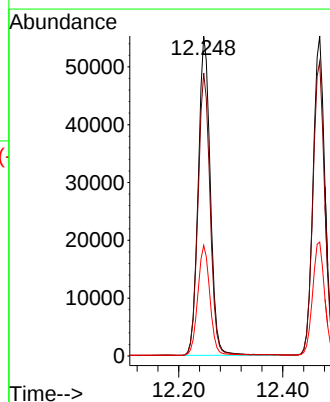
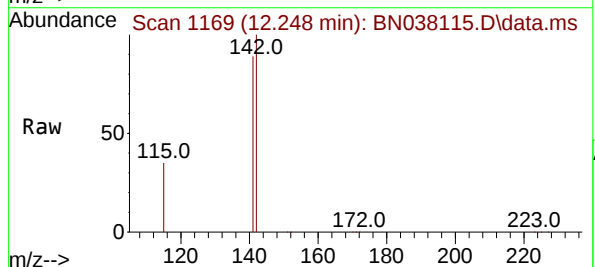
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

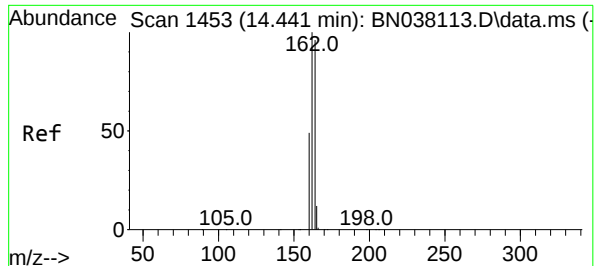
Tgt Ion:152 Resp: 68673
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#12
2-Methylnaphthalene
Concen: 1.649 ng
RT: 12.248 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion:142 Resp: 88687
Ion Ratio Lower Upper
142 100
141 88.5 70.3 105.5
115 34.6 27.8 41.6

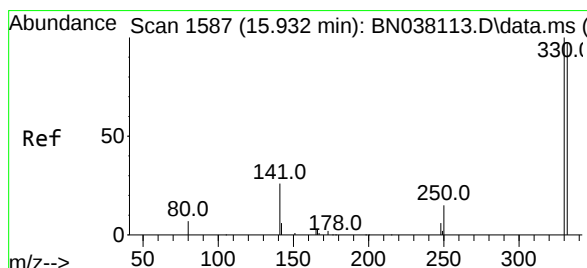
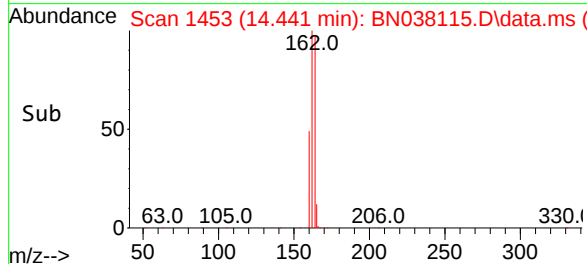
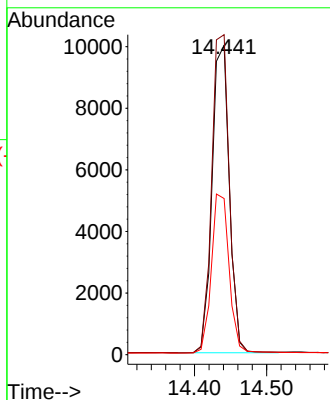
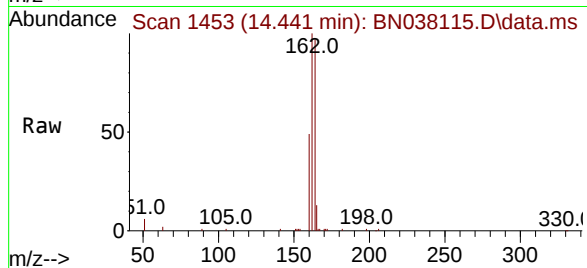




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

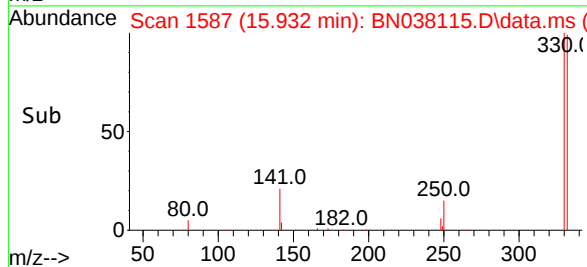
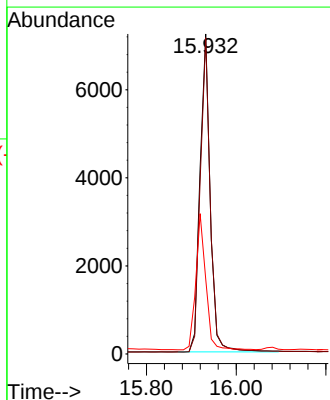
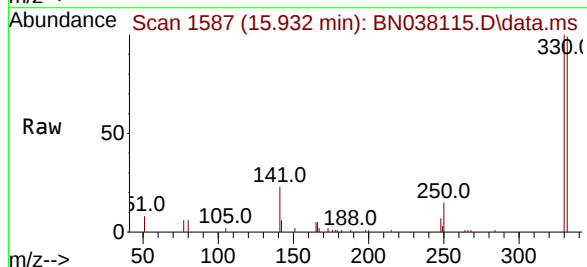
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

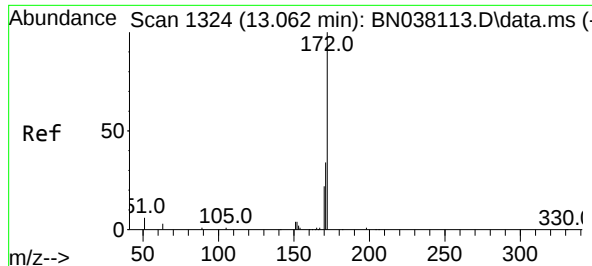
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	83.0	124.4
160	50.5	40.7	61.1



#14
2,4,6-Tribromophenol
Concen: 1.663 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.4	76.6	114.8
141	41.9	34.1	51.1





#15

2-Fluorobiphenyl

Concen: 1.613 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

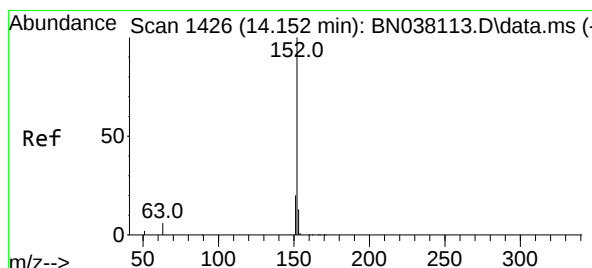
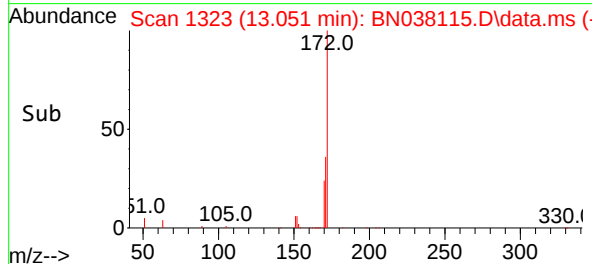
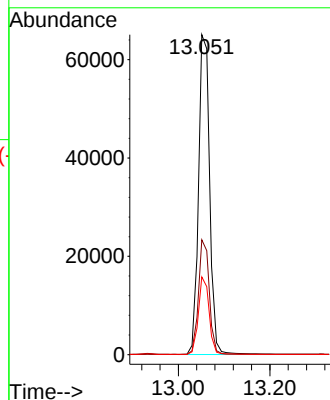
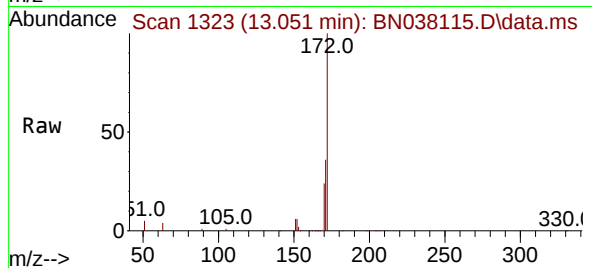
Tgt Ion:172 Resp: 107386

Ion Ratio Lower Upper

172 100

171 35.9 27.8 41.6

170 24.3 18.1 27.1



#16

Acenaphthylene

Concen: 1.671 ng

RT: 14.152 min Scan# 1426

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

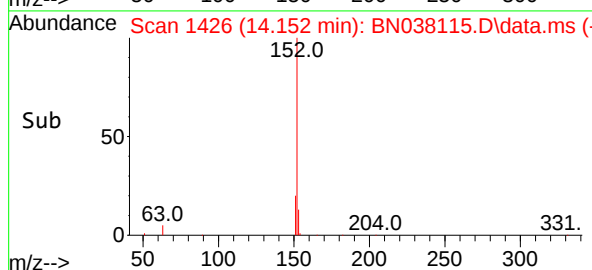
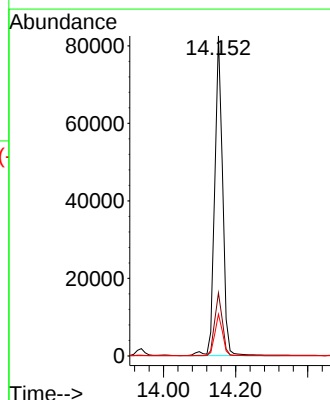
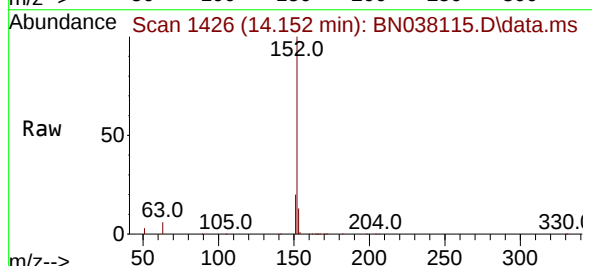
Tgt Ion:152 Resp: 125798

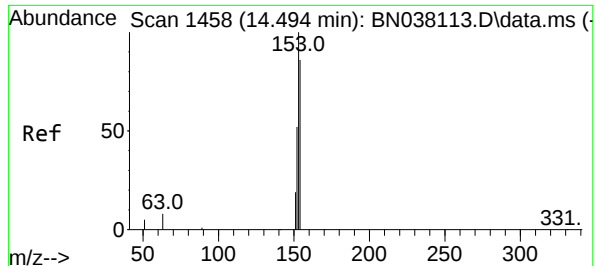
Ion Ratio Lower Upper

152 100

151 19.4 15.8 23.8

153 13.0 10.2 15.2

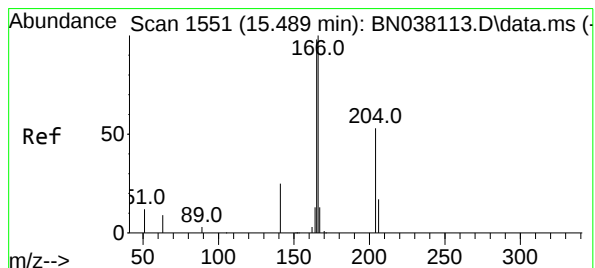
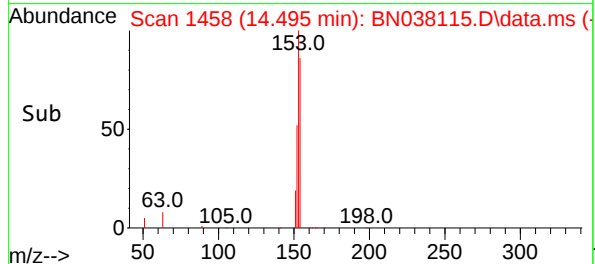
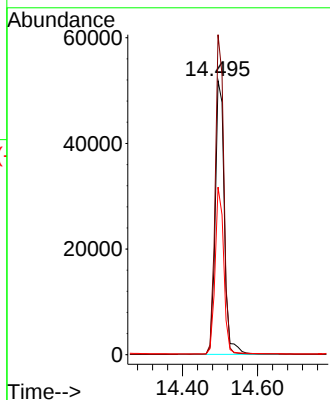
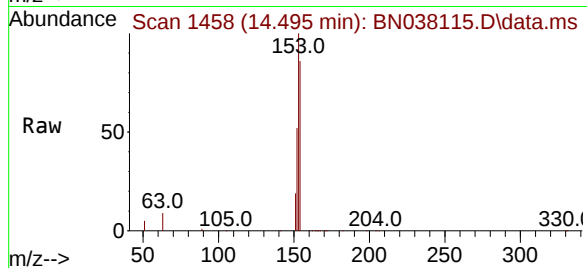




#17
Acenaphthene
Concen: 1.664 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

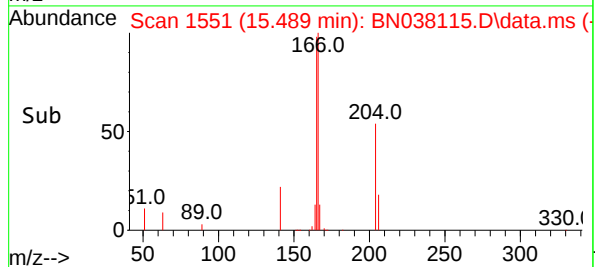
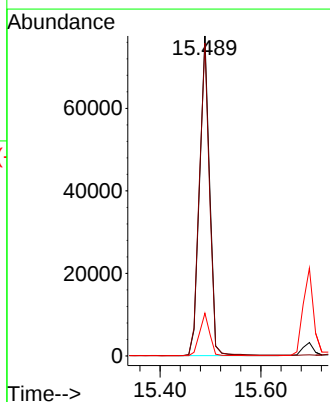
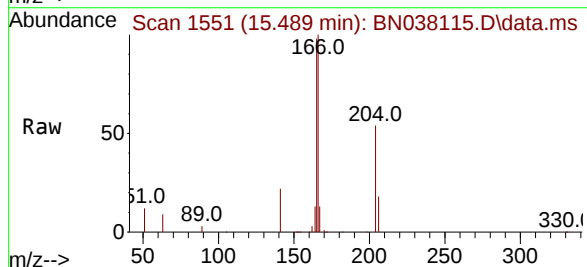
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

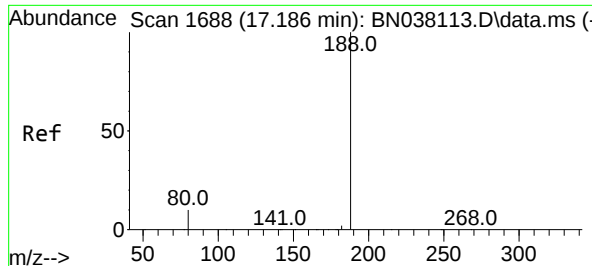
Tgt Ion:154 Resp: 87659
Ion Ratio Lower Upper
154 100
153 110.3 90.0 135.0
152 57.5 47.3 70.9



#18
Fluorene
Concen: 1.703 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion:166 Resp: 117574
Ion Ratio Lower Upper
166 100
165 98.4 79.0 118.4
167 13.2 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

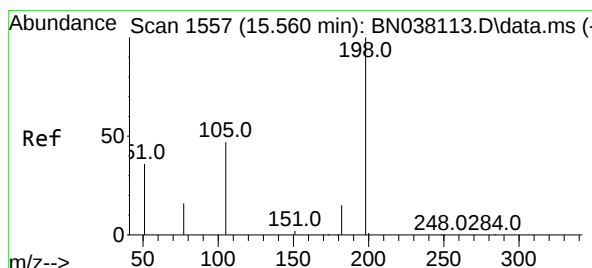
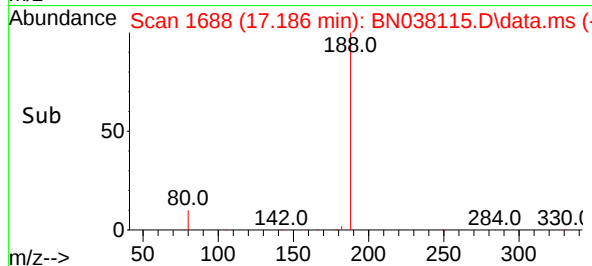
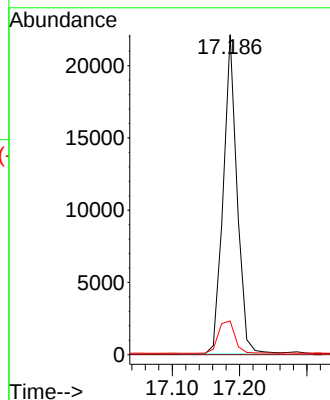
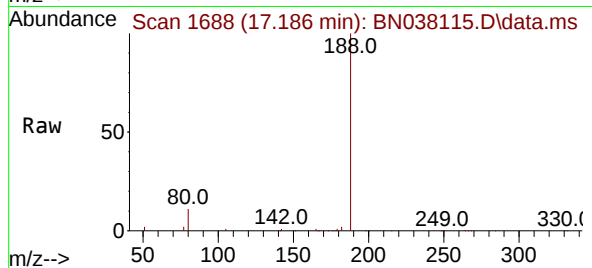
Tgt Ion:188 Resp: 31469

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 8.6 13.0



#20

4,6-Dinitro-2-methylphenol

Concen: 1.534 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

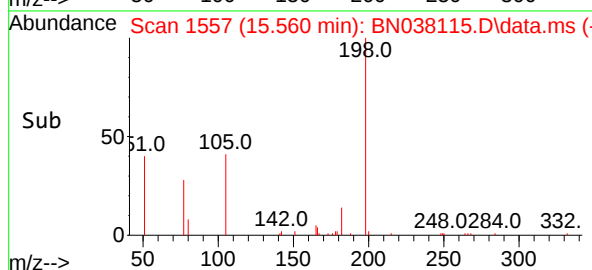
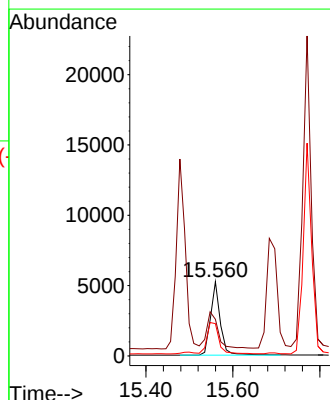
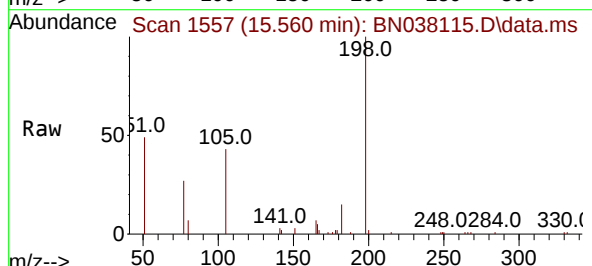
Tgt Ion:198 Resp: 7997

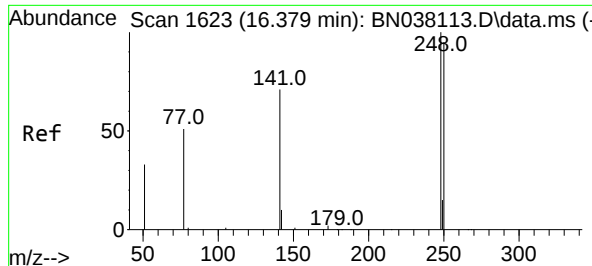
Ion Ratio Lower Upper

198 100

51 49.4 88.9 133.3#

105 43.5 49.2 73.8#

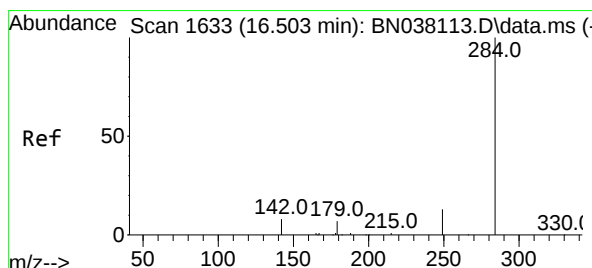
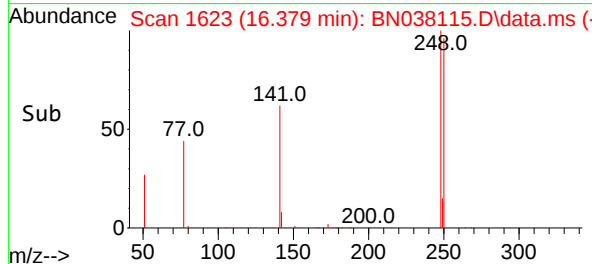
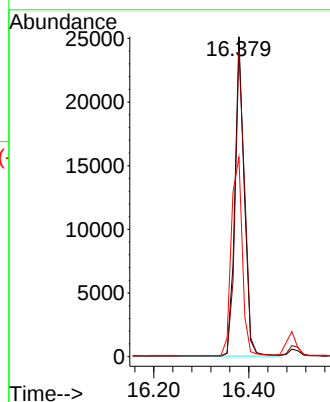
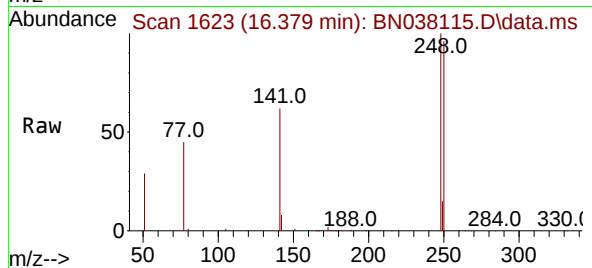




#21
4-Bromophenyl-phenylether
Concen: 1.669 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

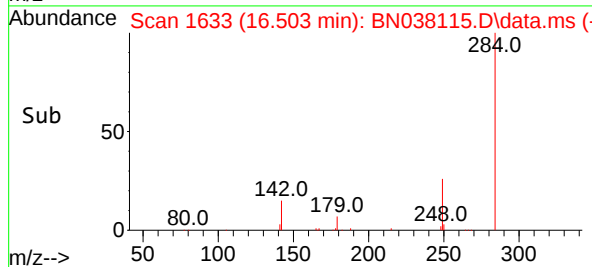
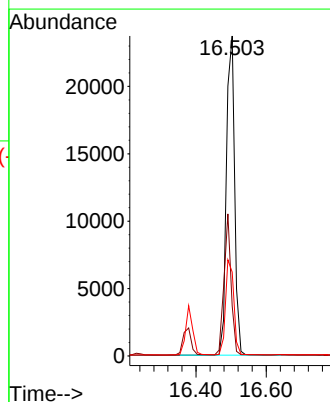
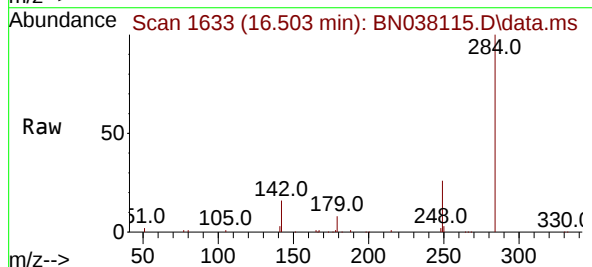
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

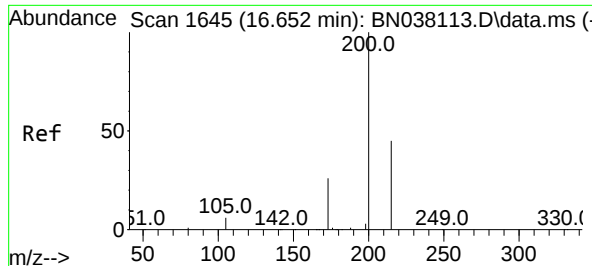
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.6	76.2	114.2
141	62.3	57.6	86.4



#22
Hexachlorobenzene
Concen: 1.642 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.3	30.5	45.7
249	30.0	23.5	35.3

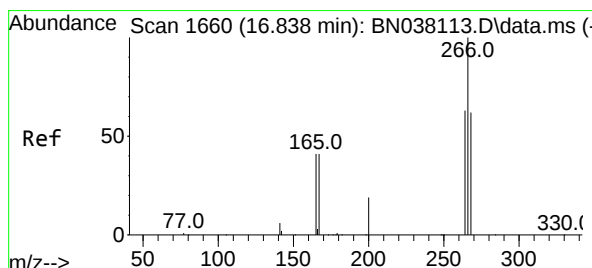
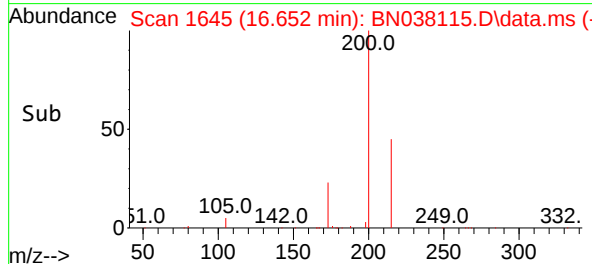
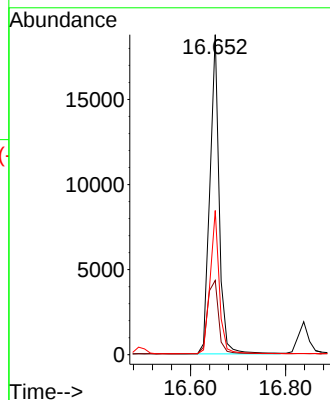
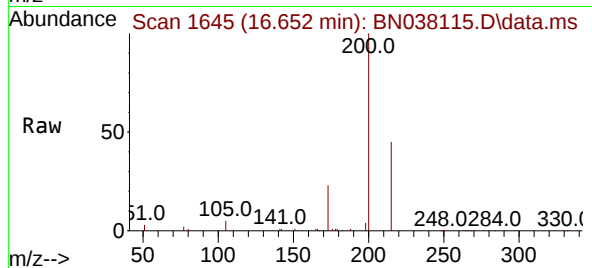




#23
Atrazine
Concen: 1.693 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

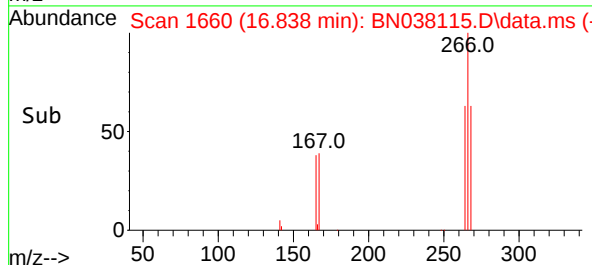
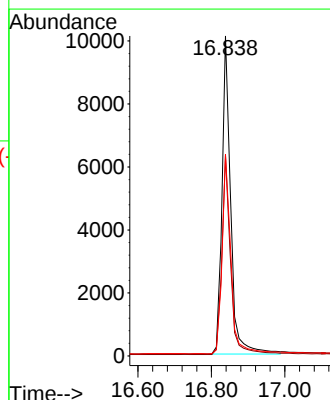
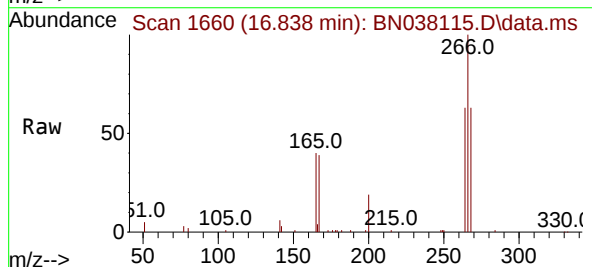
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

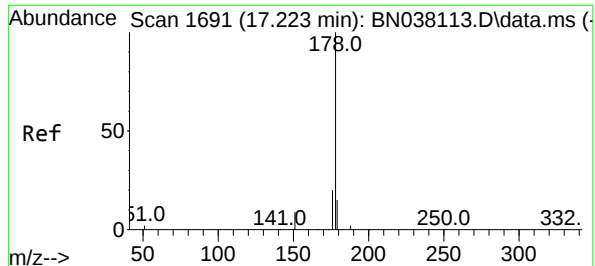
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.2	21.4	32.2
215	45.1	36.7	55.1



#24
Pentachlorophenol
Concen: 1.646 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.3	73.9
268	63.5	50.6	75.8

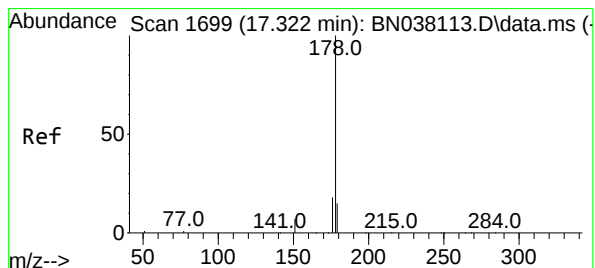
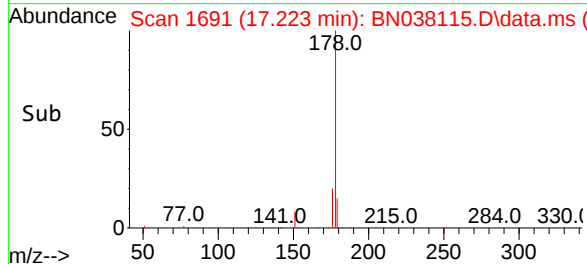
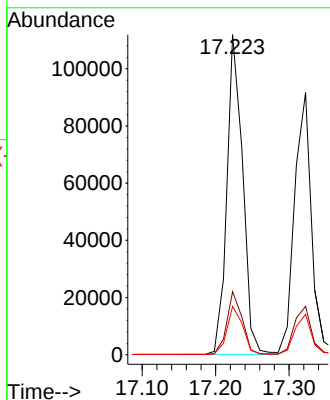
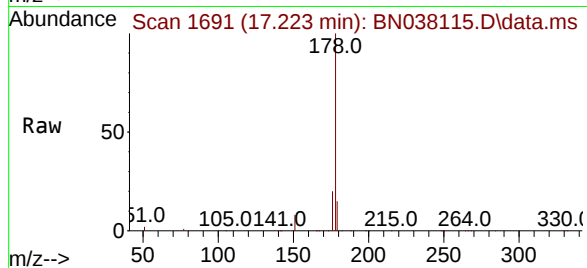




#25
Phenanthrene
Concen: 1.671 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

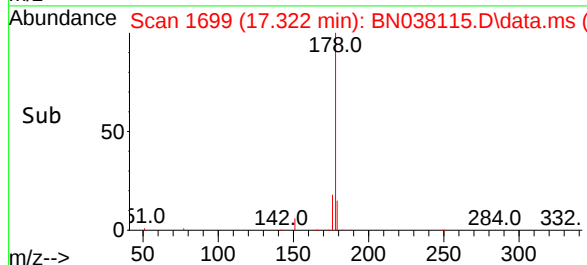
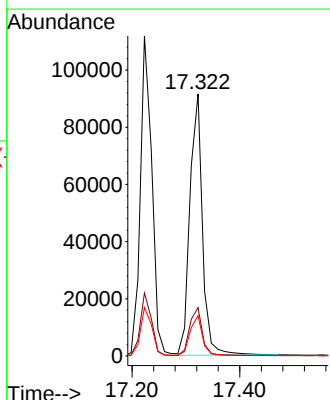
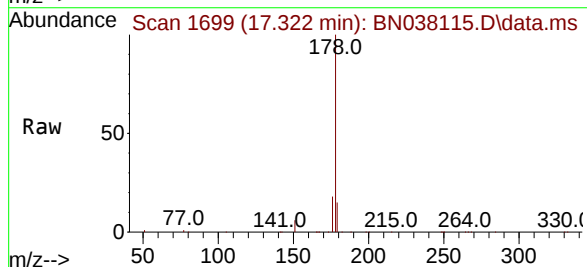
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

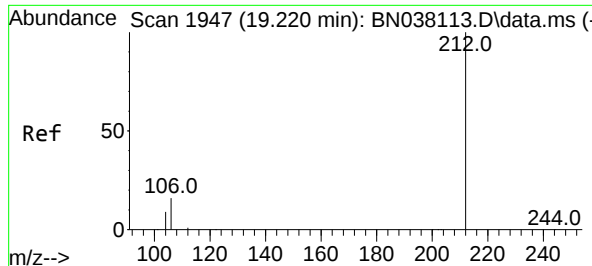
Tgt Ion:178 Resp: 166989
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.2 12.2 18.4



#26
Anthracene
Concen: 1.702 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion:178 Resp: 148754
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 1.665 ng

RT: 19.220 min Scan# 1947

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

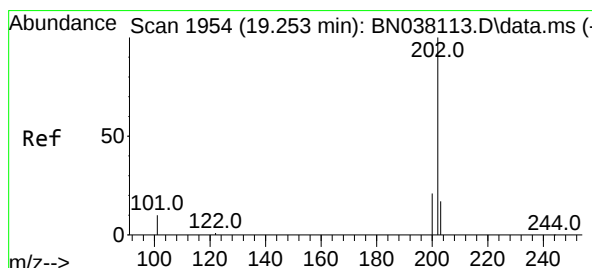
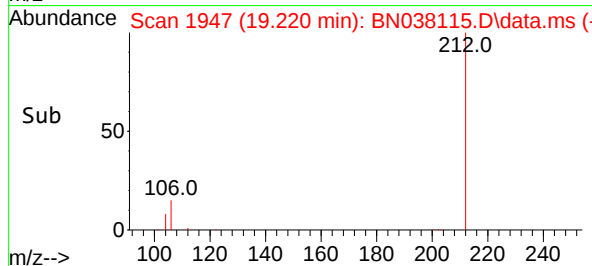
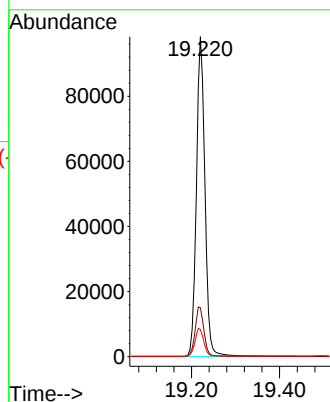
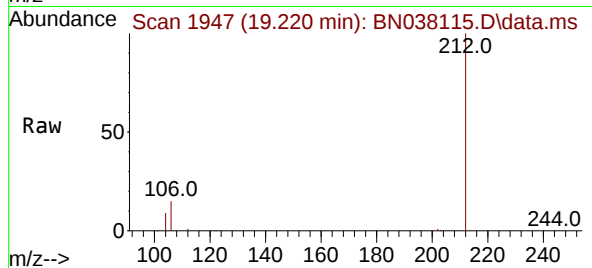
Tgt Ion:212 Resp: 132146

Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 8.9 7.1 10.7



#28

Fluoranthene

Concen: 1.682 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

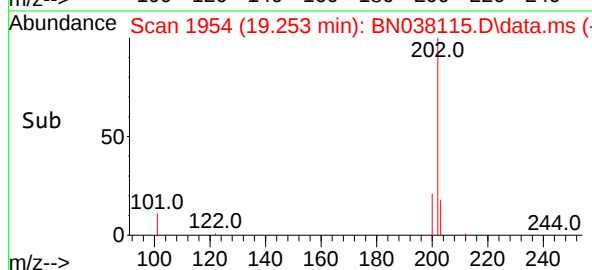
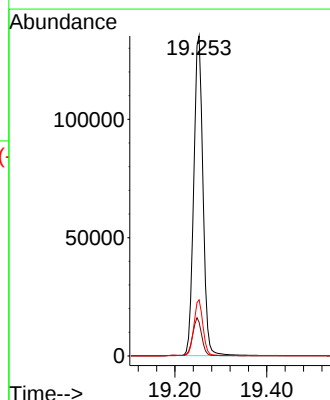
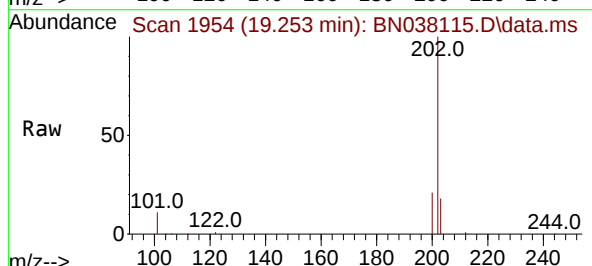
Tgt Ion:202 Resp: 187774

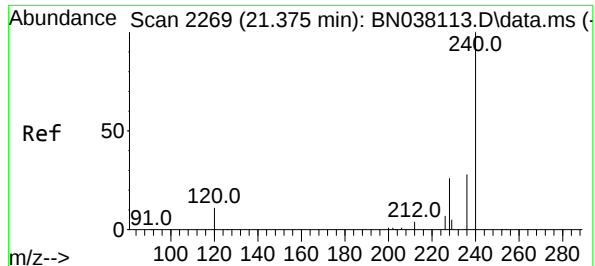
Ion Ratio Lower Upper

202 100

101 11.9 9.4 14.2

203 17.2 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

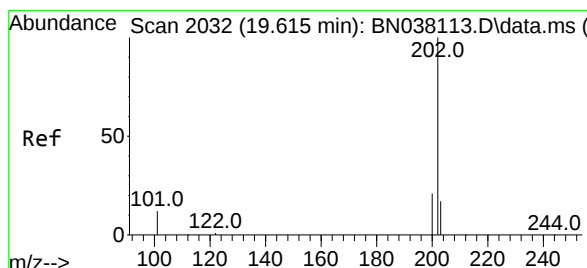
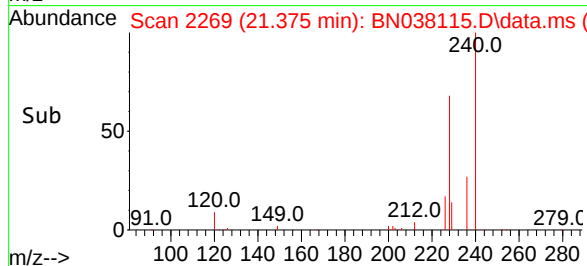
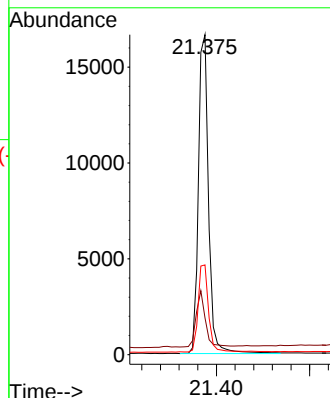
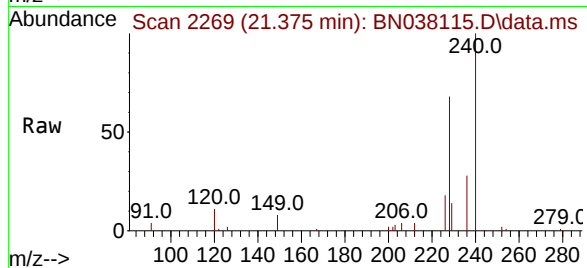
Tgt Ion:240 Resp: 25173

Ion Ratio Lower Upper

240 100

120 11.5 10.7 16.1

236 28.0 23.1 34.7



#30

Pyrene

Concen: 1.626 ng

RT: 19.610 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

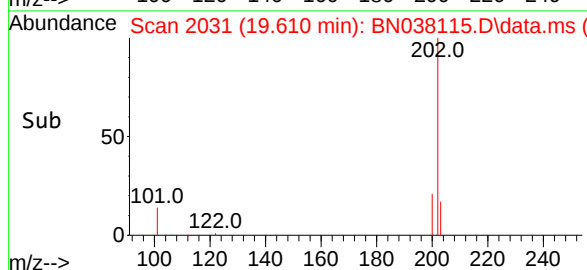
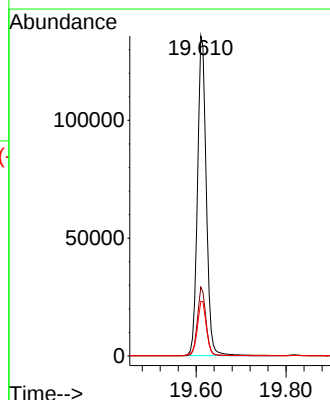
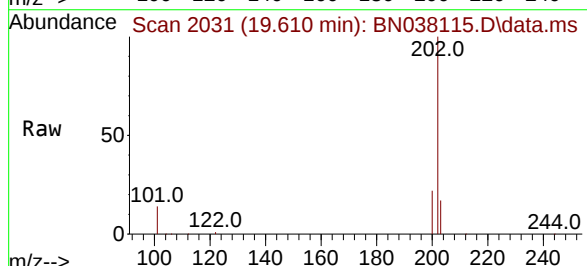
Tgt Ion:202 Resp: 184735

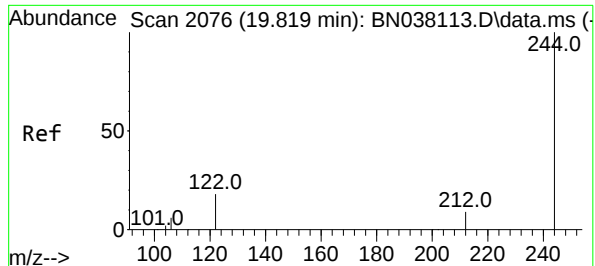
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.2

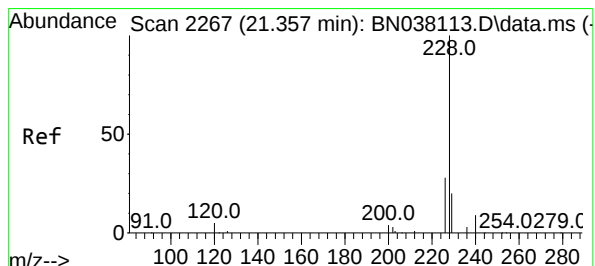
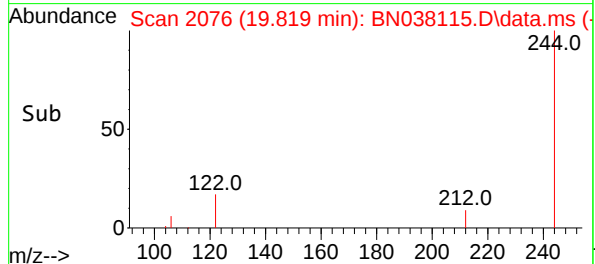
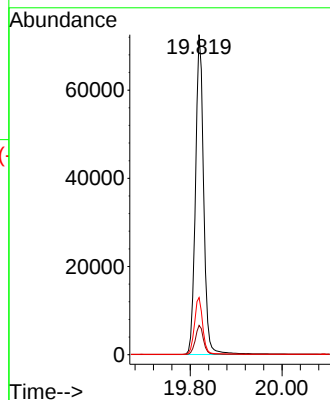
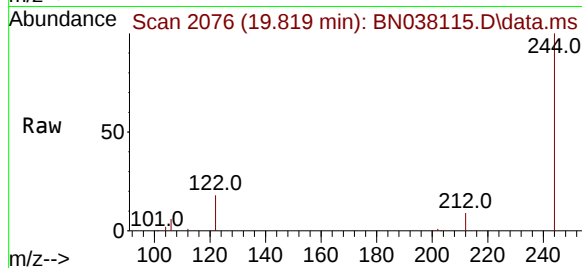




#31
Terphenyl-d14
Concen: 1.642 ng
RT: 19.819 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

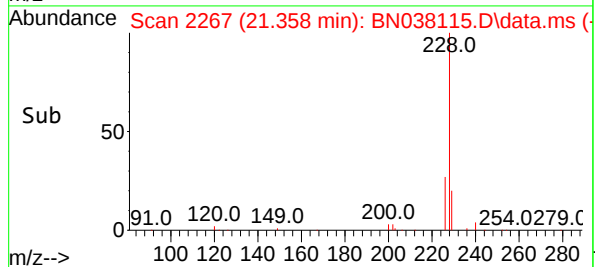
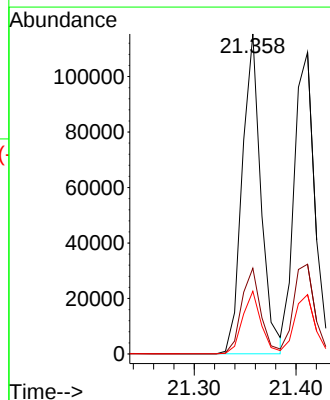
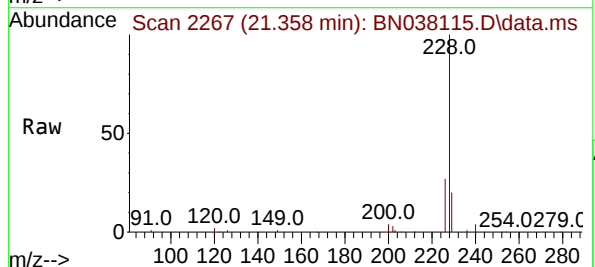
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

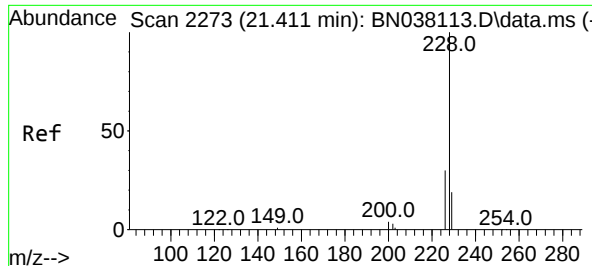
Tgt Ion:244 Resp: 89776
Ion Ratio Lower Upper
244 100
212 9.1 7.8 11.6
122 17.8 15.2 22.8



#32
Benzo(a)anthracene
Concen: 1.647 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038115.D
Acq: 28 Oct 2025 15:25

Tgt Ion:228 Resp: 147889
Ion Ratio Lower Upper
228 100
226 26.8 22.2 33.4
229 19.6 15.8 23.8





#33

Chrysene

Concen: 1.610 ng

RT: 21.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

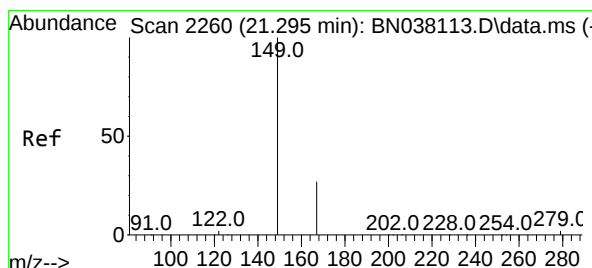
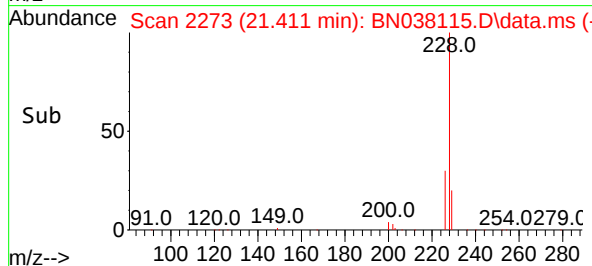
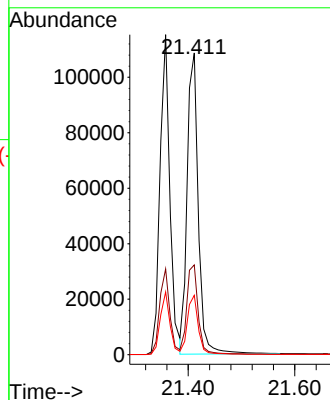
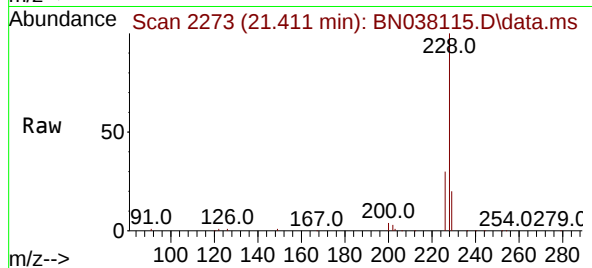
Tgt Ion:228 Resp: 156927

Ion Ratio Lower Upper

228 100

226 29.8 24.3 36.5

229 19.7 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.535 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

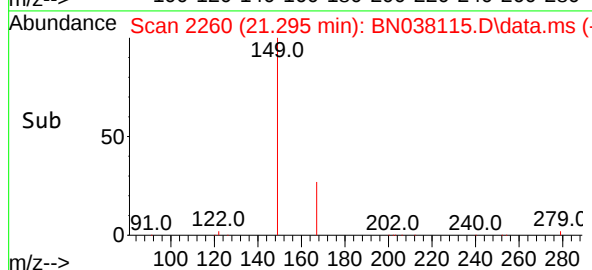
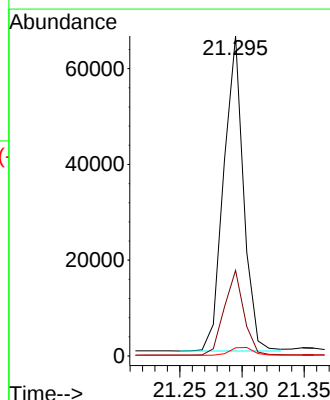
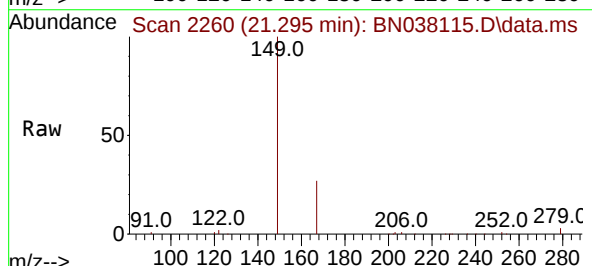
Tgt Ion:149 Resp: 72607

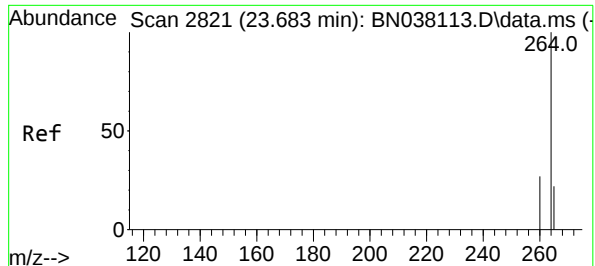
Ion Ratio Lower Upper

149 100

167 26.6 21.1 31.7

279 3.0 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.680 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

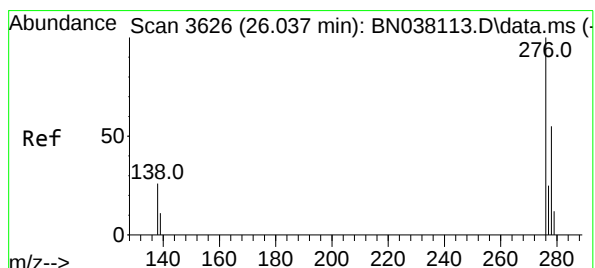
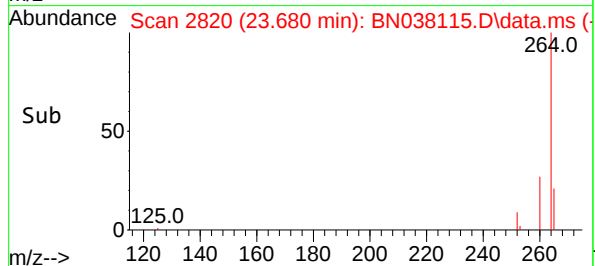
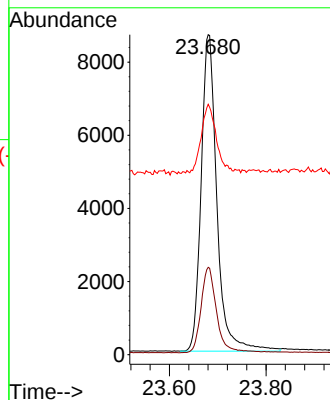
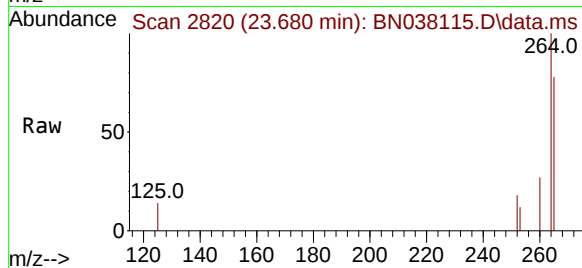
Tgt Ion:264 Resp: 19529

Ion Ratio Lower Upper

264 100

260 27.3 21.8 32.8

265 78.3 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.685 ng

RT: 26.031 min Scan# 3624

Delta R.T. -0.003 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

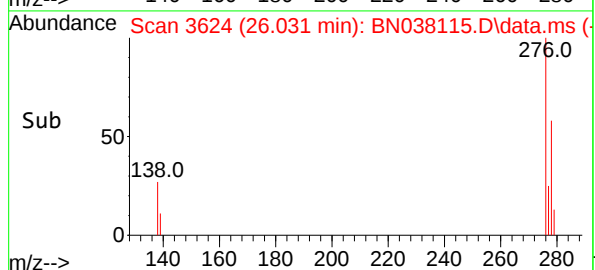
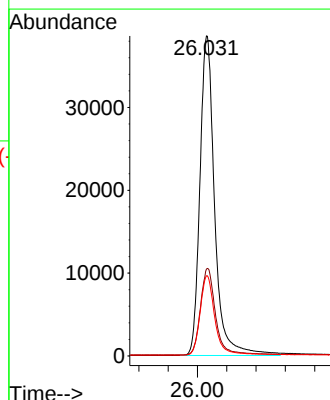
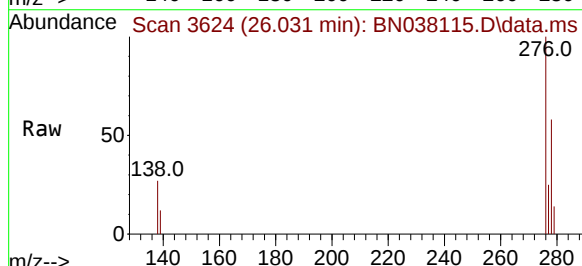
Tgt Ion:276 Resp: 135169

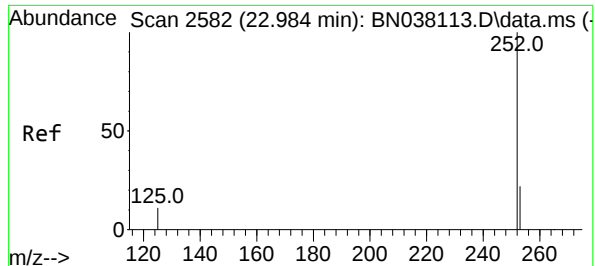
Ion Ratio Lower Upper

276 100

138 27.6 21.4 32.0

277 24.5 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 1.689 ng

RT: 22.981 min Scan# 2581

Delta R.T. 0.000 min

Lab File: BN038115.D

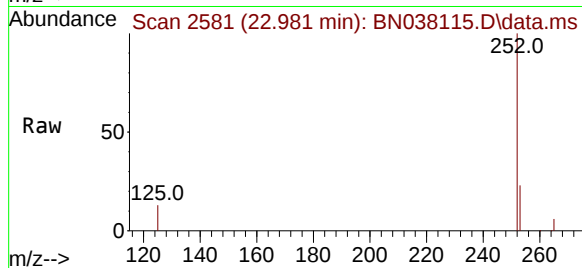
Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



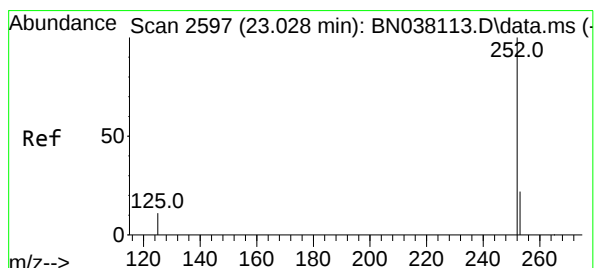
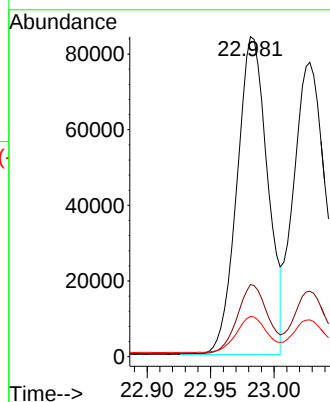
Tgt Ion:252 Resp: 141041

Ion Ratio Lower Upper

252 100

253 22.5 20.9 31.3

125 12.6 14.1 21.1#



#38

Benzo(k)fluoranthene

Concen: 1.702 ng

RT: 23.028 min Scan# 2597

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

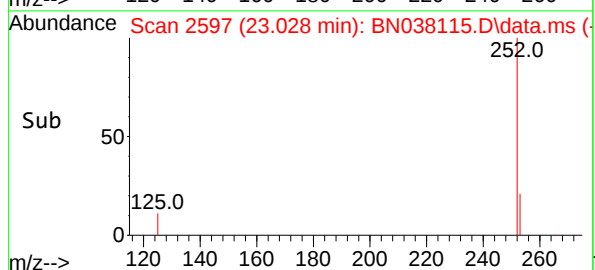
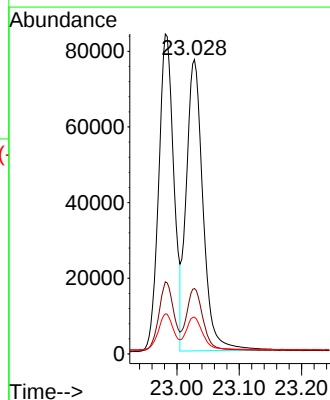
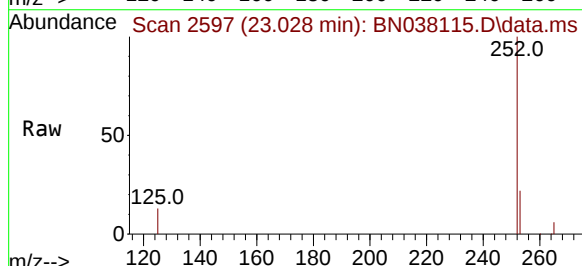
Tgt Ion:252 Resp: 143019

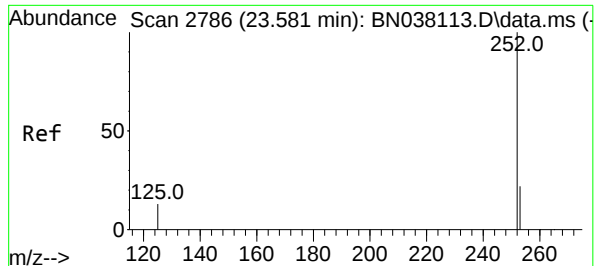
Ion Ratio Lower Upper

252 100

253 22.2 21.2 31.8

125 12.5 14.6 22.0#





#39

Benzo(a)pyrene

Concen: 1.660 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

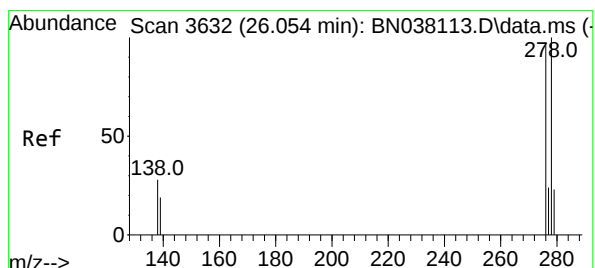
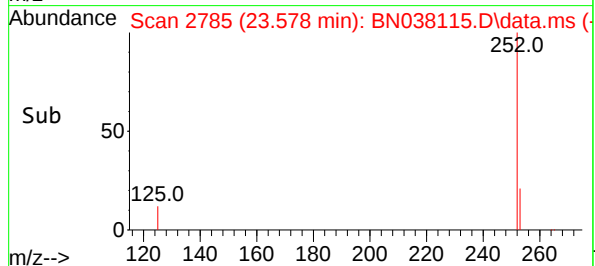
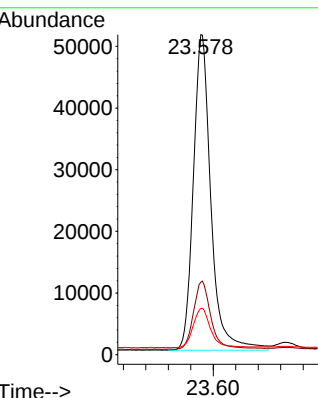
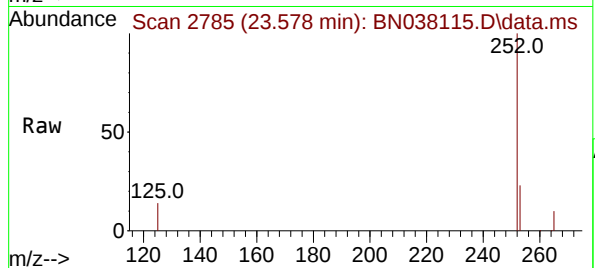
Tgt Ion:252 Resp: 110949

Ion Ratio Lower Upper

252 100

253 22.7 23.1 34.7#

125 14.4 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.710 ng

RT: 26.048 min Scan# 3630

Delta R.T. 0.000 min

Lab File: BN038115.D

Acq: 28 Oct 2025 15:25

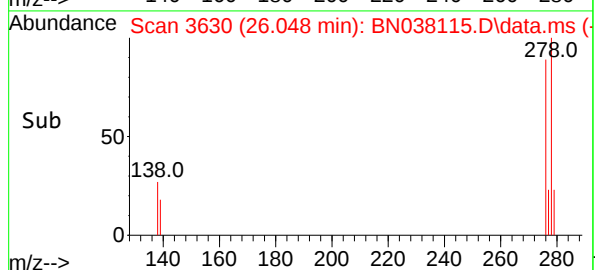
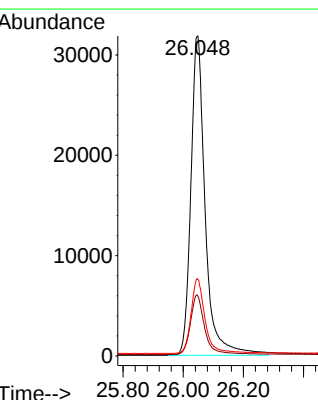
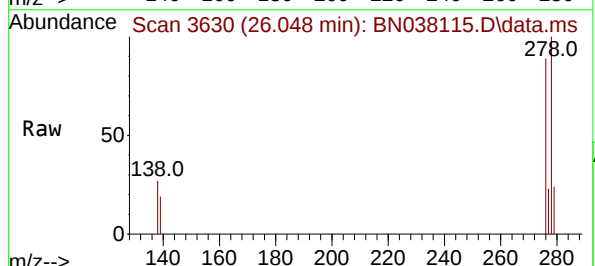
Tgt Ion:278 Resp: 105589

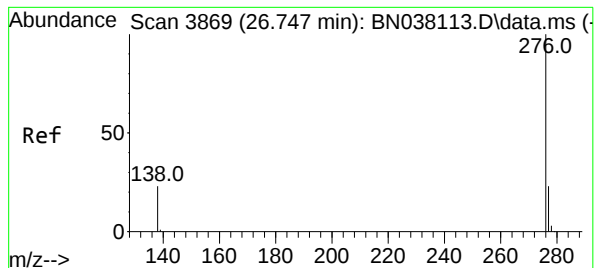
Ion Ratio Lower Upper

278 100

139 18.7 17.6 26.4

279 23.9 22.6 33.8





#41

Benzo(g,h,i)perylene

Concen: 1.660 ng

RT: 26.747 min Scan# 3869

Delta R.T. -0.003 min

Lab File: BN038115.D

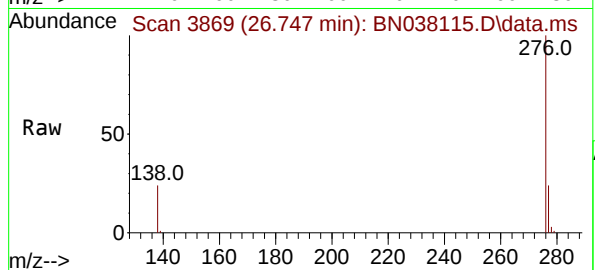
Acq: 28 Oct 2025 15:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



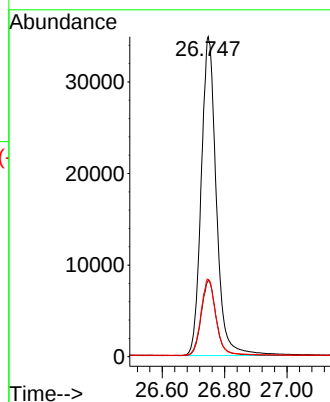
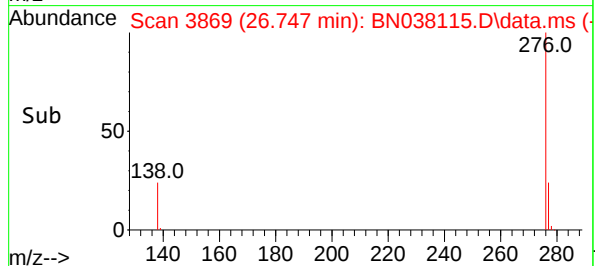
Tgt Ion:276 Resp: 117071

Ion Ratio Lower Upper

276 100

277 23.9 19.7 29.5

138 24.2 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038116.D
 Acq On : 28 Oct 2025 16:02
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Oct 28 17:31:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 17:15:13 2025
 Response via : Initial Calibration

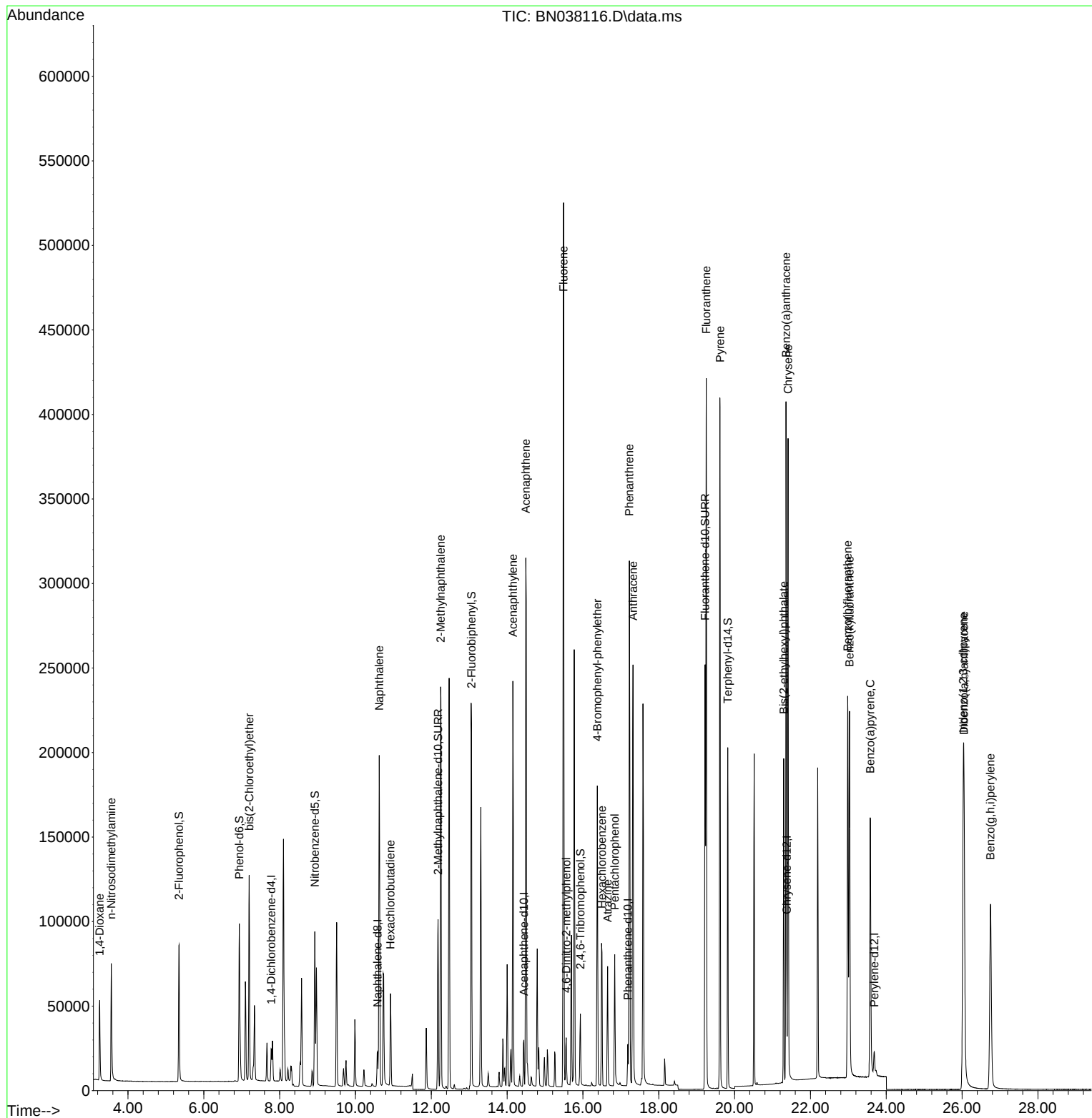
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	9743	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	28864	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	16547	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	31206	0.400	ng	0.00
29) Chrysene-d12	21.375	240	26115	0.400	ng	0.00
35) Perylene-d12	23.683	264	19904	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	69778	3.040	ng	0.00
5) Phenol-d6	6.937	99	88646	3.171	ng	0.00
8) Nitrobenzene-d5	8.929	82	70830	3.041	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	134773	3.270	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	24045	3.527	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	200437	3.024	ng	0.01
27) Fluoranthene-d10	19.220	212	263418	3.348	ng	0.00
31) Terphenyl-d14	19.819	244	180175	3.176	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.254	88	31207	3.100	ng	99
3) n-Nitrosodimethylamine	3.557	42	41593	3.211	ng	96
6) bis(2-Chloroethyl)ether	7.197	93	86904	3.164	ng	99
9) Naphthalene	10.626	128	255606	3.215	ng	99
10) Hexachlorobutadiene	10.925	225	42325	3.155	ng	# 99
12) 2-Methylnaphthalene	12.248	142	172992	3.263	ng	98
16) Acenaphthylene	14.152	152	253121	3.378	ng	99
17) Acenaphthene	14.495	154	173433	3.308	ng	97
18) Fluorene	15.489	166	230067	3.348	ng	100
20) 4,6-Dinitro-2-methylph...	15.560	198	18221	3.363	ng	# 47
21) 4-Bromophenyl-phenylether	16.379	248	67616	3.305	ng	99
22) Hexachlorobenzene	16.503	284	74101	3.185	ng	99
23) Atrazine	16.652	200	52181	3.482	ng	97
24) Pentachlorophenol	16.838	266	36424	3.634	ng	99
25) Phenanthrene	17.223	178	322719	3.257	ng	100
26) Anthracene	17.322	178	295333	3.408	ng	99
28) Fluoranthene	19.253	202	372238	3.363	ng	99
30) Pyrene	19.615	202	368946	3.130	ng	100
32) Benzo(a)anthracene	21.358	228	308037	3.306	ng	99
33) Chrysene	21.411	228	317065	3.136	ng	99
34) Bis(2-ethylhexyl)phtha...	21.295	149	157480	3.209	ng	99
36) Indeno(1,2,3-cd)pyrene	26.031	276	276870	3.386	ng	98
37) Benzo(b)fluoranthene	22.984	252	292856	3.441	ng	# 90
38) Benzo(k)fluoranthene	23.031	252	292143	3.411	ng	# 89
39) Benzo(a)pyrene	23.578	252	231067	3.392	ng	# 84
40) Dibenzo(a,h)anthracene	26.051	278	217022	3.449	ng	92
41) Benzo(g,h,i)perylene	26.750	276	235264	3.274	ng	98

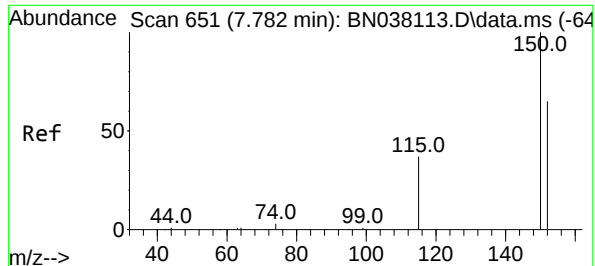
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038116.D
Acq On : 28 Oct 2025 16:02
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Oct 28 17:31:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 17:15:13 2025
Response via : Initial Calibration

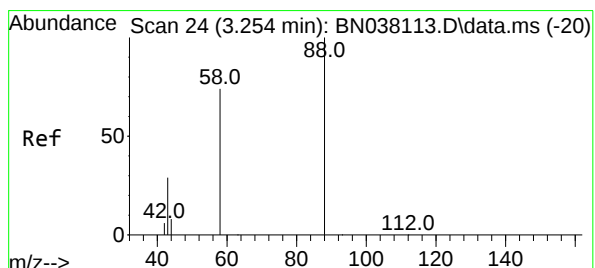
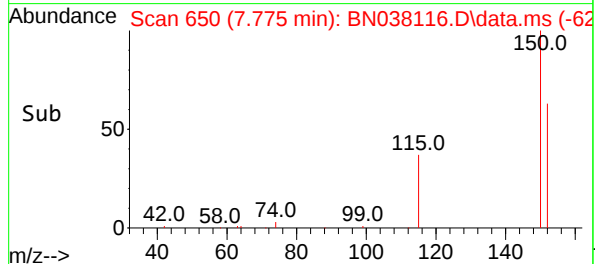
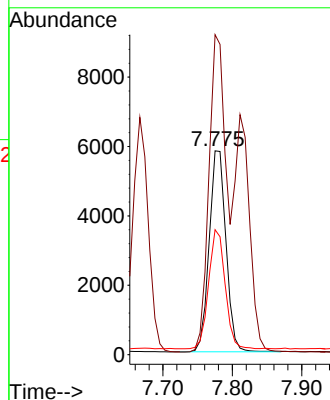
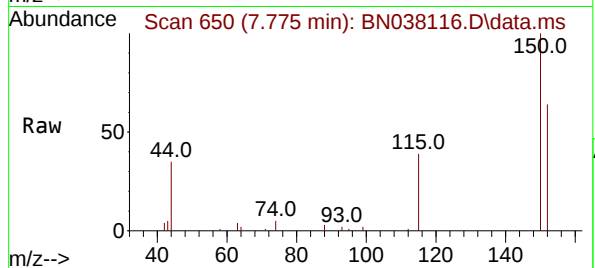




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

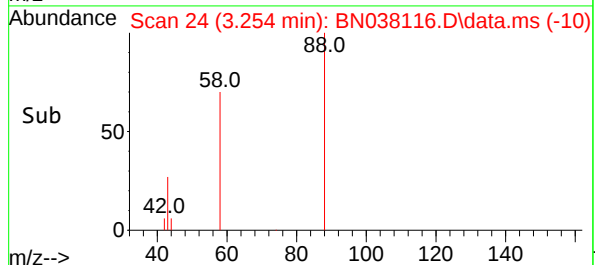
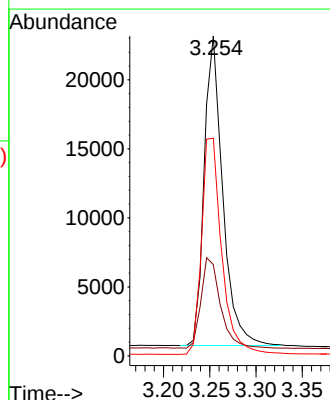
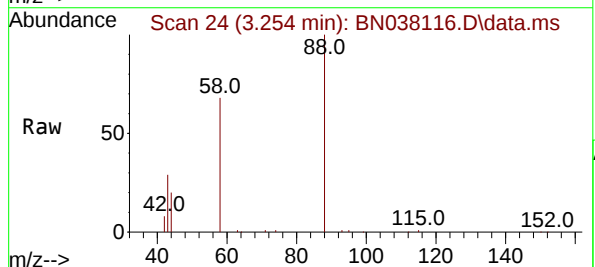
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

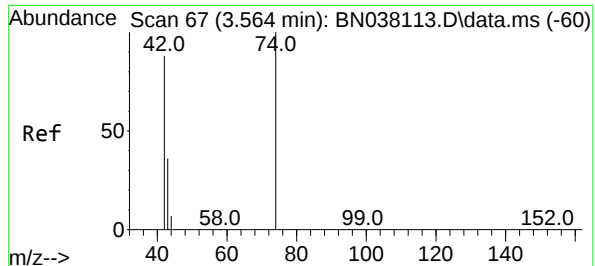
Tgt Ion:152 Resp: 9743
Ion Ratio Lower Upper
152 100
150 157.0 122.3 183.5
115 61.3 47.4 71.0



#2
1,4-Dioxane
Concen: 3.100 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion: 88 Resp: 31207
Ion Ratio Lower Upper
88 100
43 30.6 24.3 36.5
58 76.1 60.4 90.6

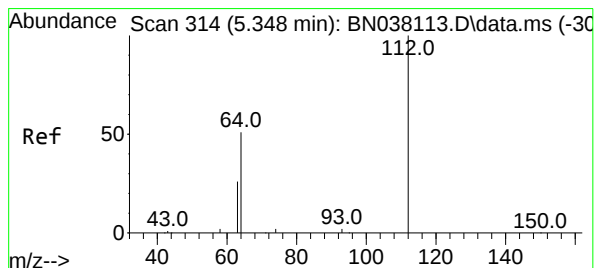
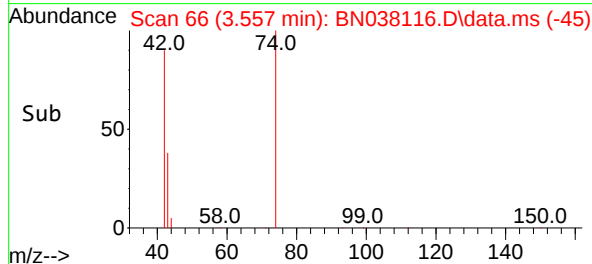
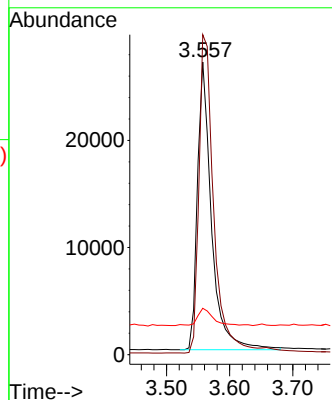
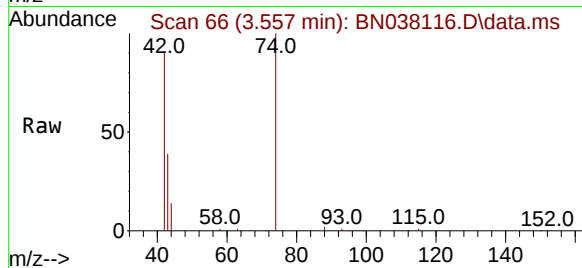




#3
n-Nitrosodimethylamine
Concen: 3.211 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

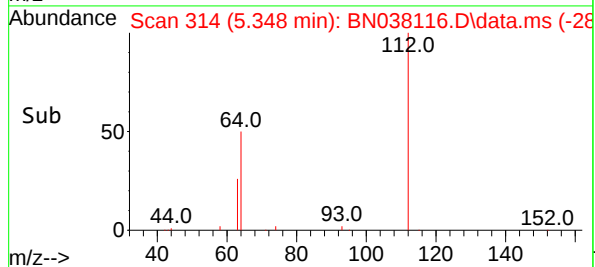
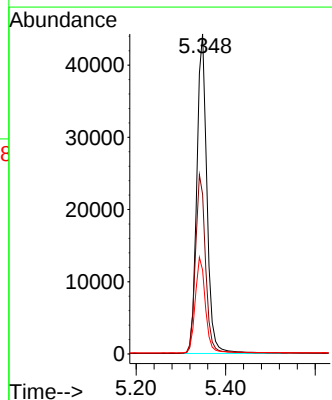
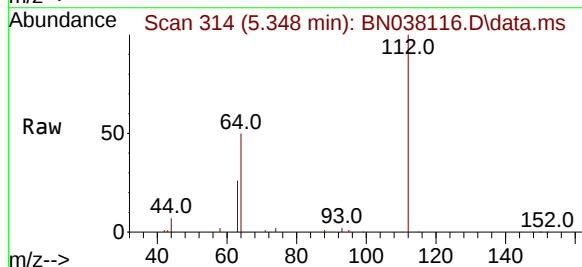
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

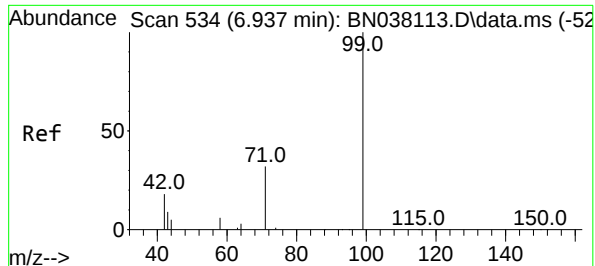
Tgt Ion: 42 Resp: 41593
Ion Ratio Lower Upper
42 100
74 116.1 96.8 145.2
44 6.8 5.3 7.9



#4
2-Fluorophenol
Concen: 3.040 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion: 112 Resp: 69778
Ion Ratio Lower Upper
112 100
64 56.1 45.4 68.0
63 30.0 23.2 34.8

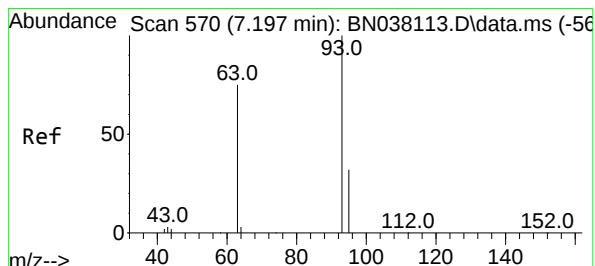
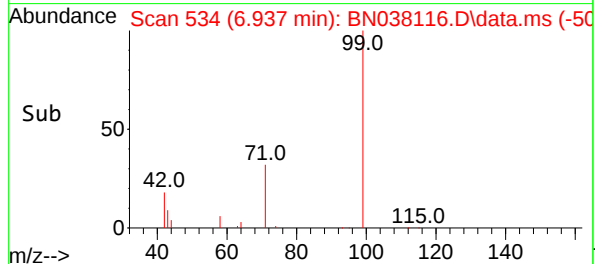
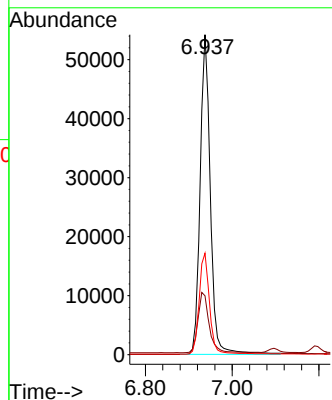
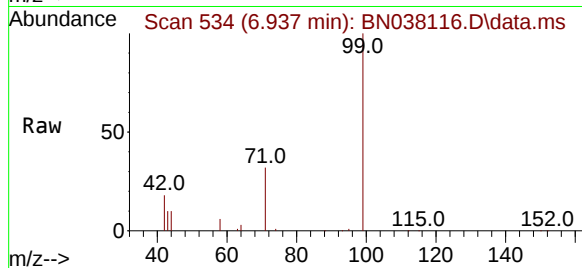




#5
Phenol-d6
Concen: 3.171 ng
RT: 6.937 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

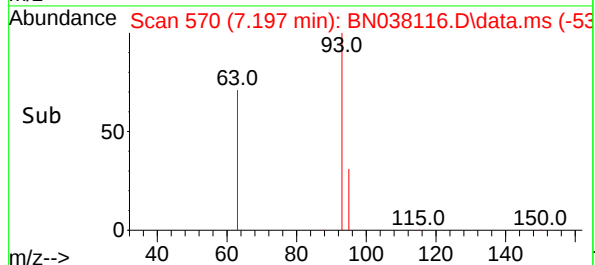
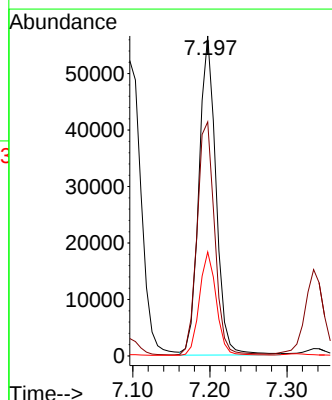
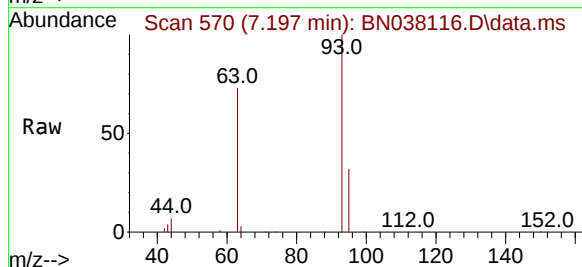
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

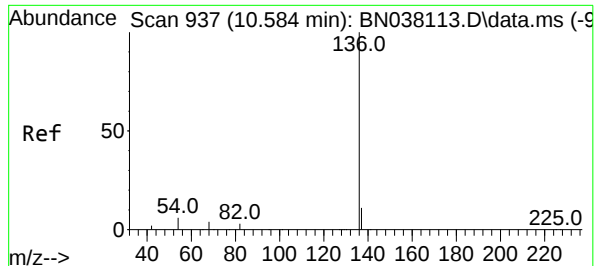
Tgt Ion: 99 Resp: 88646
Ion Ratio Lower Upper
99 100
42 20.7 16.6 24.8
71 32.4 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 3.164 ng
RT: 7.197 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion: 93 Resp: 86904
Ion Ratio Lower Upper
93 100
63 75.1 59.3 88.9
95 32.0 25.2 37.8

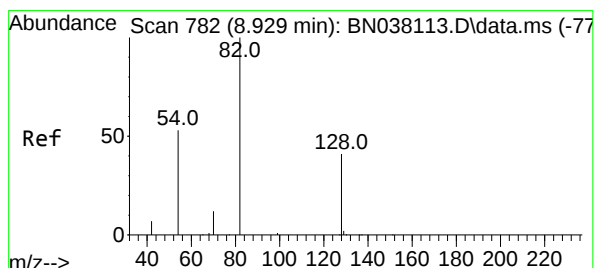
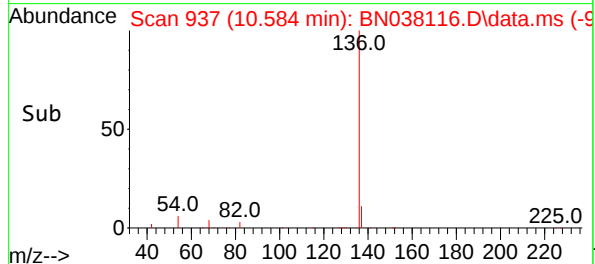
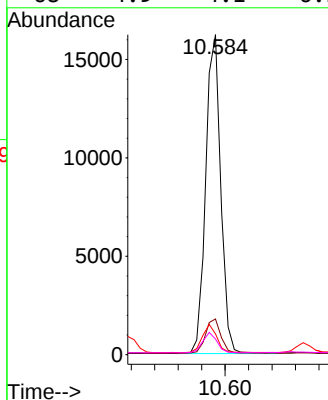
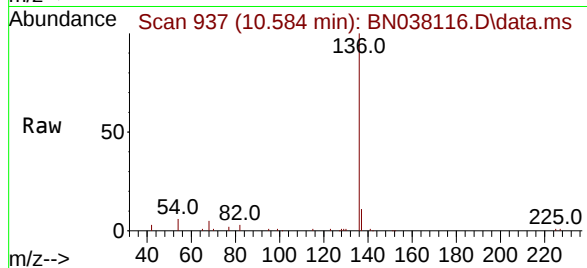




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

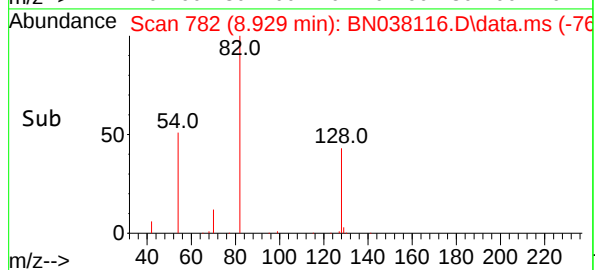
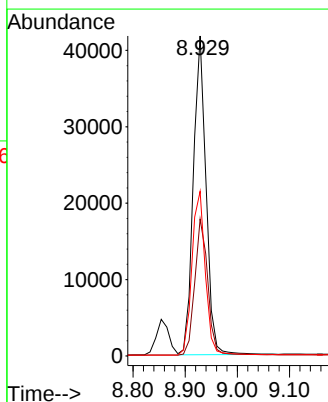
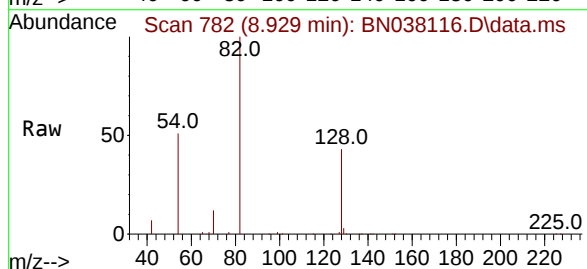
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

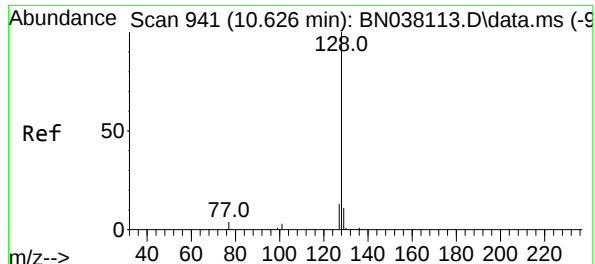
Tgt Ion:	136	Resp:	28864
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	6.5	5.2	7.8
68	4.9	4.1	6.1



#8
Nitrobenzene-d5
Concen: 3.041 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion:	82	Resp:	70830
Ion	Ratio	Lower	Upper
82	100		
128	42.8	34.1	51.1
54	51.5	43.5	65.3

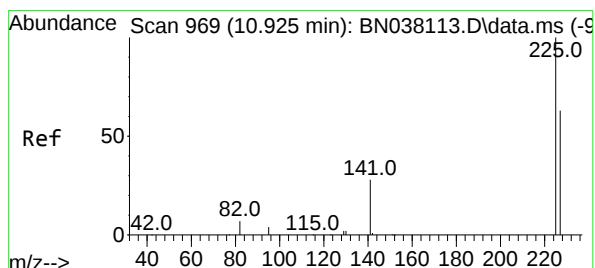
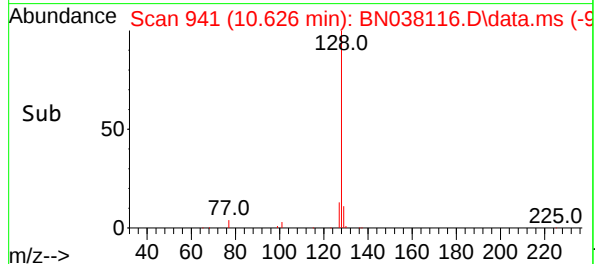
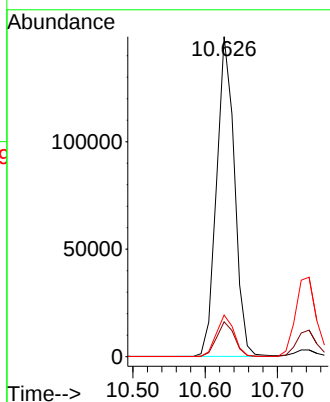
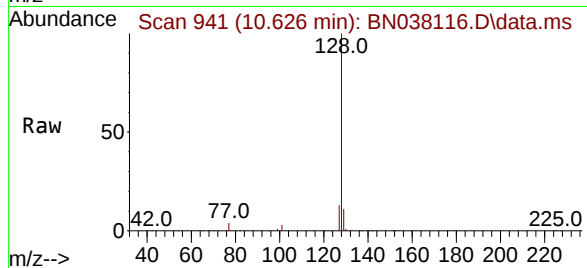




#9
Naphthalene
Concen: 3.215 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

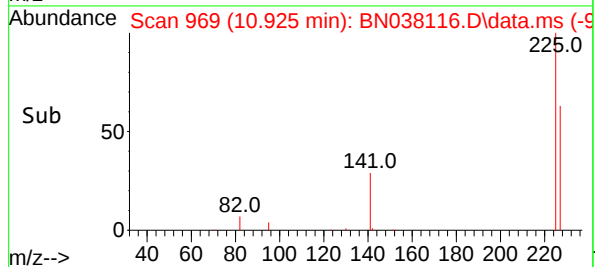
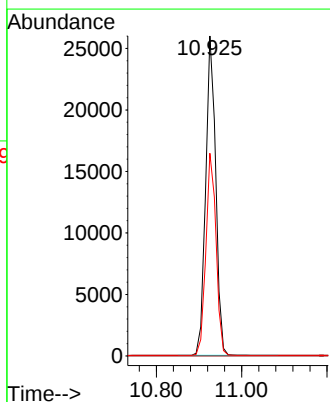
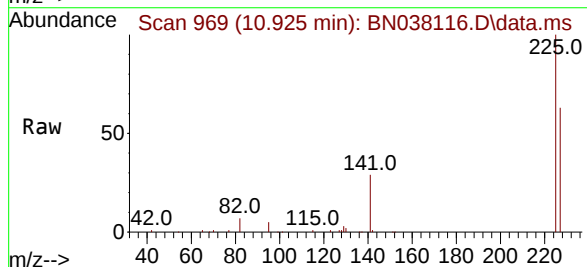
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

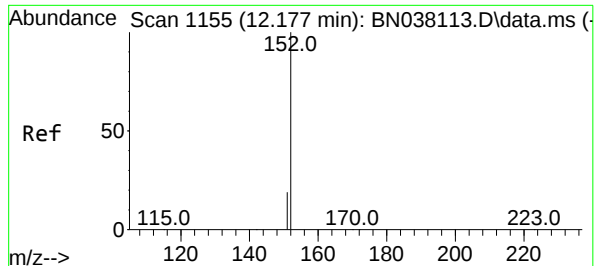
Tgt Ion:128 Resp: 255606
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.0 10.5 15.7



#10
Hexachlorobutadiene
Concen: 3.155 ng
RT: 10.925 min Scan# 969
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion:225 Resp: 42325
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.3 75.5

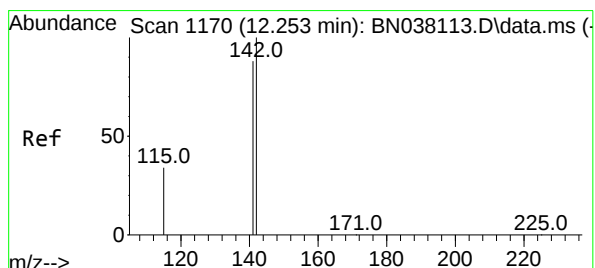
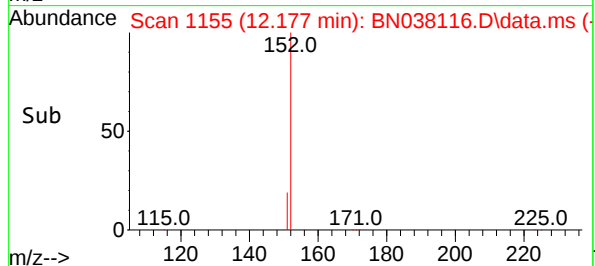
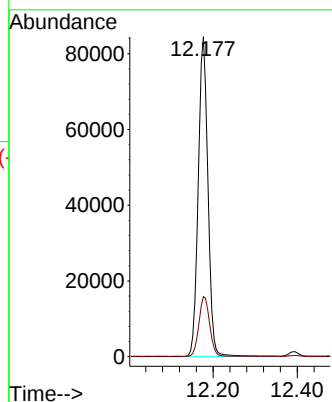
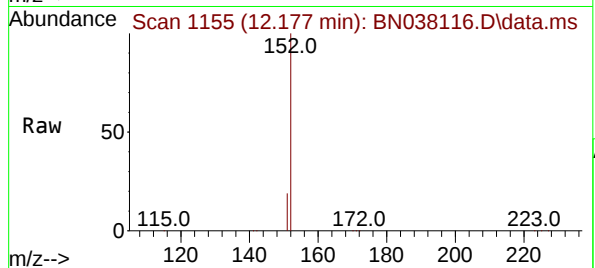




#11
2-Methylnaphthalene-d10
Concen: 3.270 ng
RT: 12.177 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

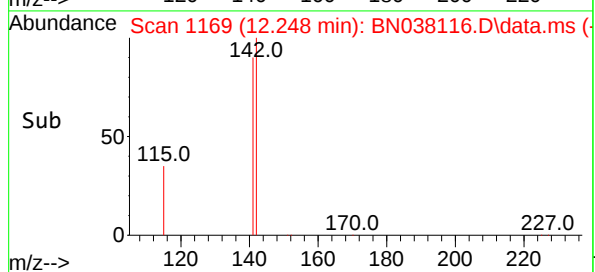
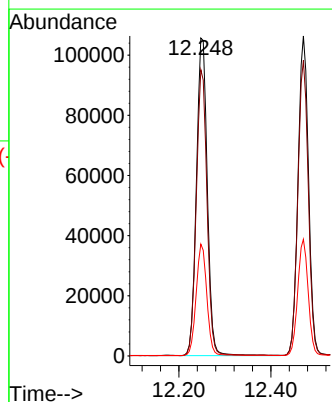
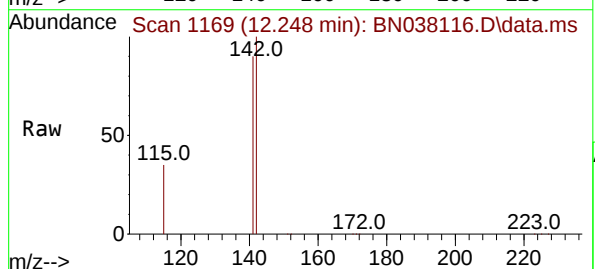
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

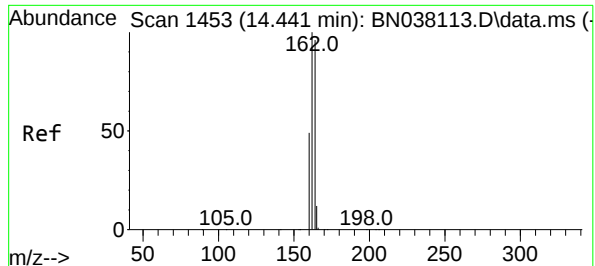
Tgt Ion:152 Resp: 134773
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#12
2-Methylnaphthalene
Concen: 3.263 ng
RT: 12.248 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion:142 Resp: 172992
Ion Ratio Lower Upper
142 100
141 90.0 70.3 105.5
115 35.2 27.8 41.6

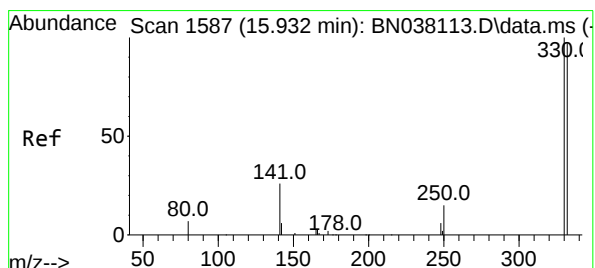
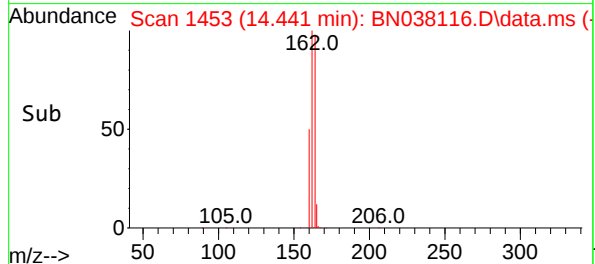
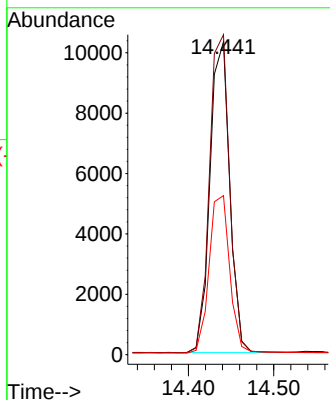
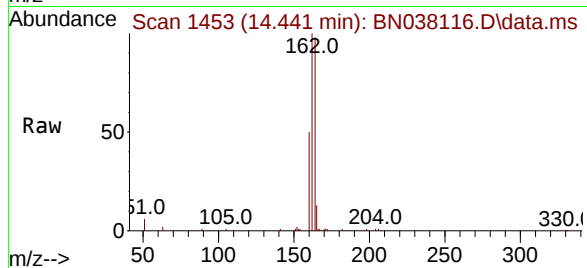




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

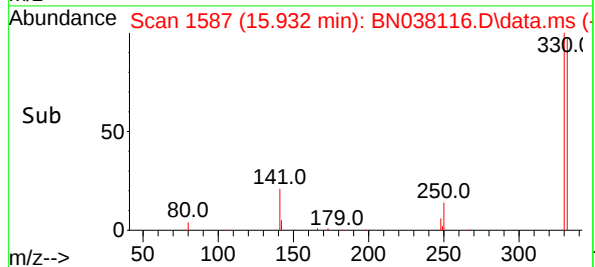
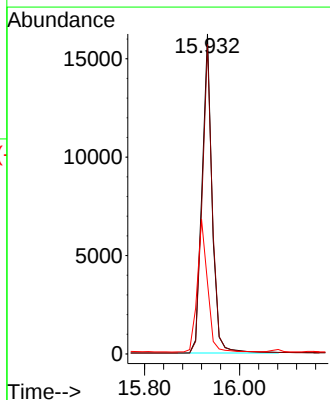
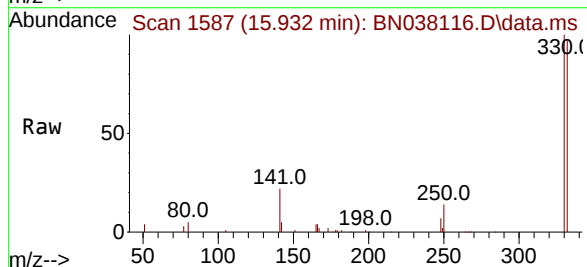
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

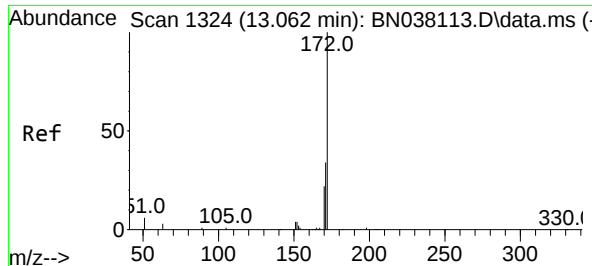
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	83.0	124.4
160	50.8	40.7	61.1



#14
2,4,6-Tribromophenol
Concen: 3.527 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	114.8
141	42.2	34.1	51.1





#15

2-Fluorobiphenyl

Concen: 3.024 ng

RT: 13.062 min Scan# 1324

Delta R.T. 0.011 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

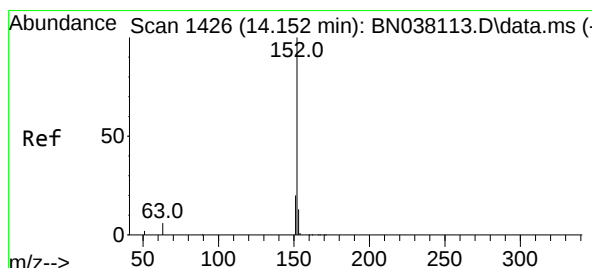
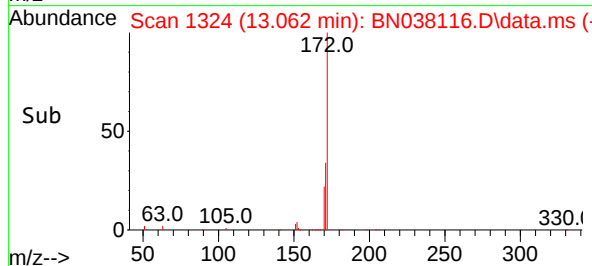
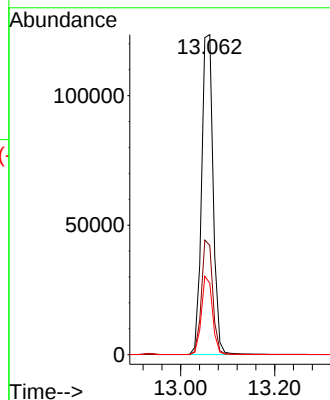
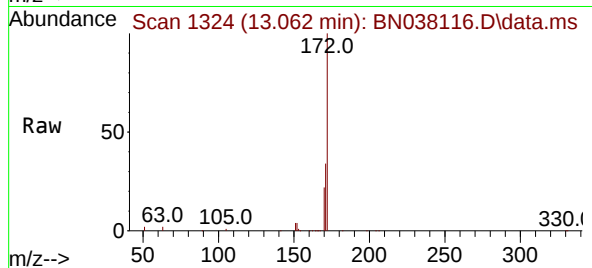
Tgt Ion:172 Resp: 200437

Ion Ratio Lower Upper

172 100

171 34.2 27.8 41.6

170 22.3 18.1 27.1



#16

Acenaphthylene

Concen: 3.378 ng

RT: 14.152 min Scan# 1426

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

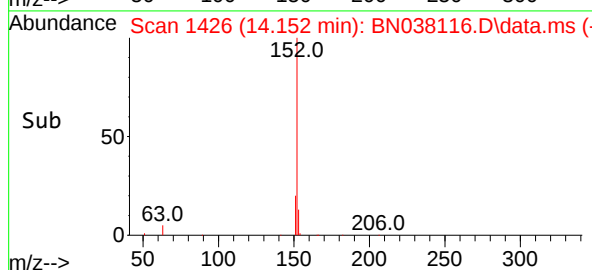
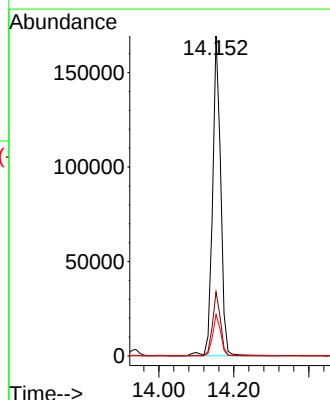
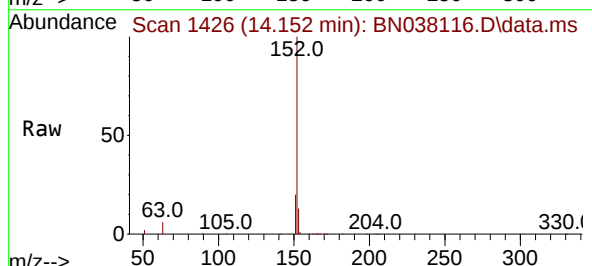
Tgt Ion:152 Resp: 253121

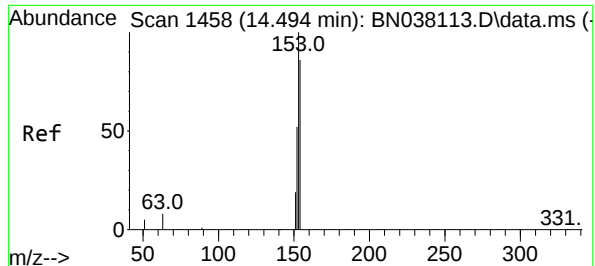
Ion Ratio Lower Upper

152 100

151 19.5 15.8 23.8

153 12.9 10.2 15.2

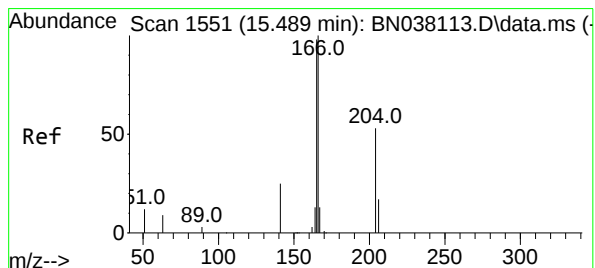
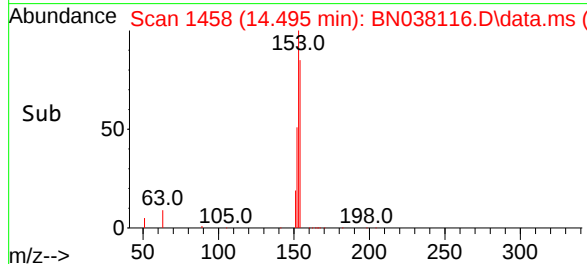
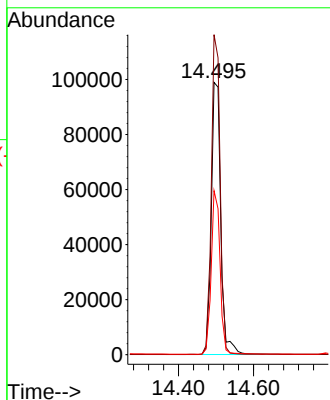
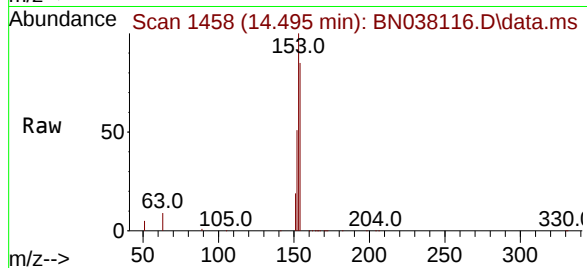




#17
Acenaphthene
Concen: 3.308 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

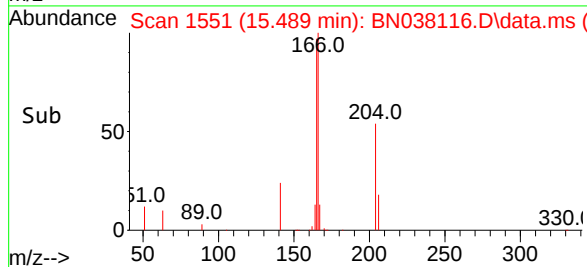
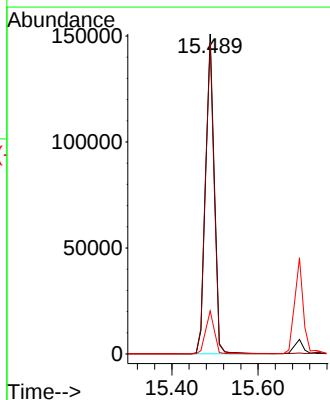
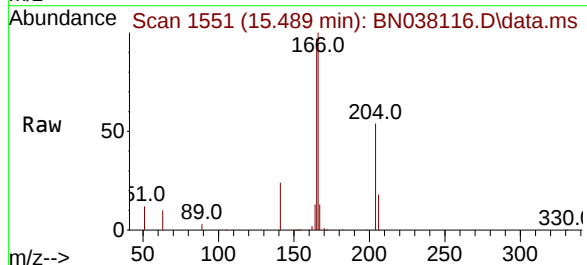
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

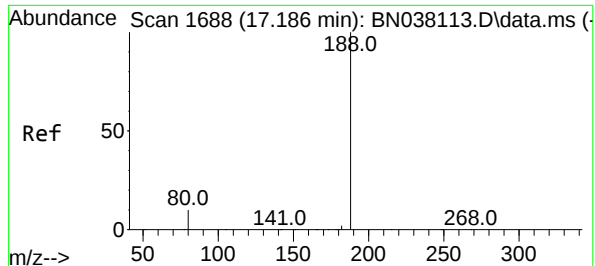
Tgt Ion:154 Resp: 173433
Ion Ratio Lower Upper
154 100
153 109.4 90.0 135.0
152 56.0 47.3 70.9



#18
Fluorene
Concen: 3.348 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion:166 Resp: 230067
Ion Ratio Lower Upper
166 100
165 99.1 79.0 118.4
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

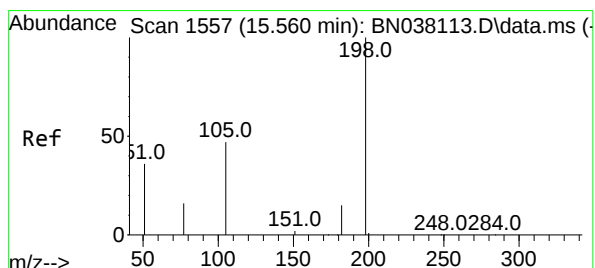
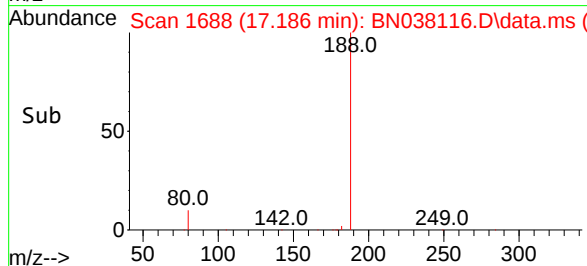
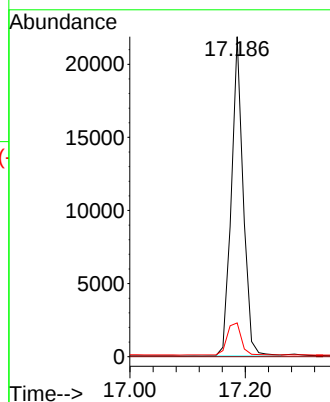
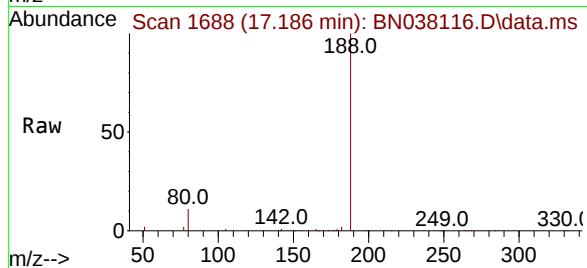
Tgt Ion:188 Resp: 31206

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 8.6 13.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.363 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

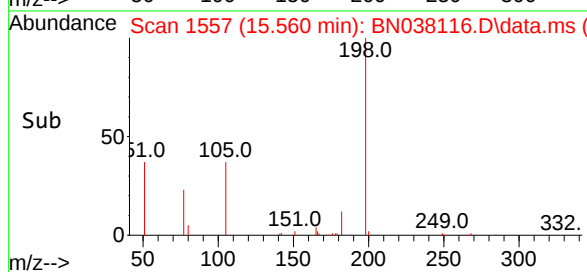
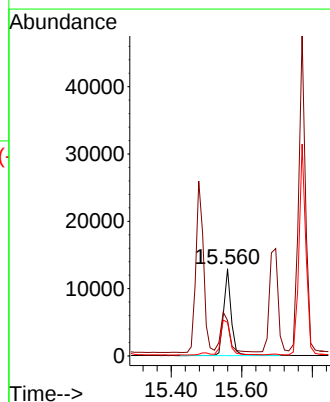
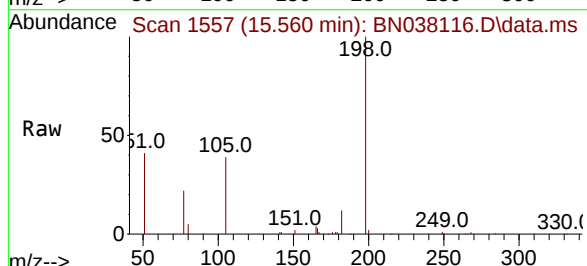
Tgt Ion:198 Resp: 18221

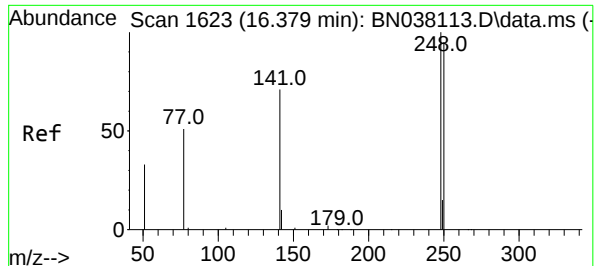
Ion Ratio Lower Upper

198 100

51 40.8 88.9 133.3#

105 38.5 49.2 73.8#

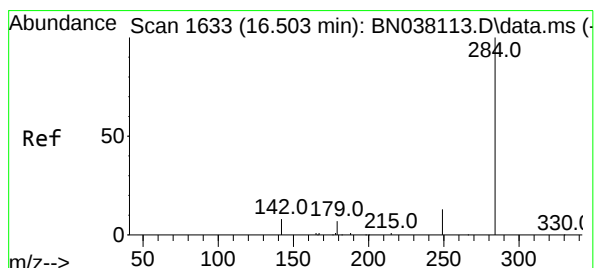
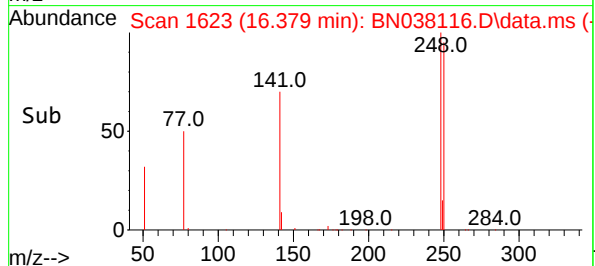
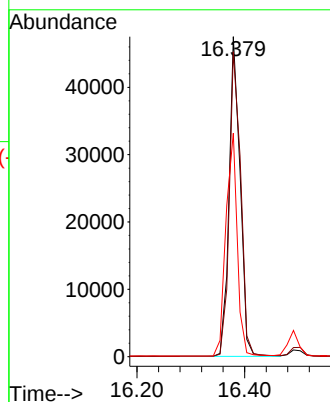
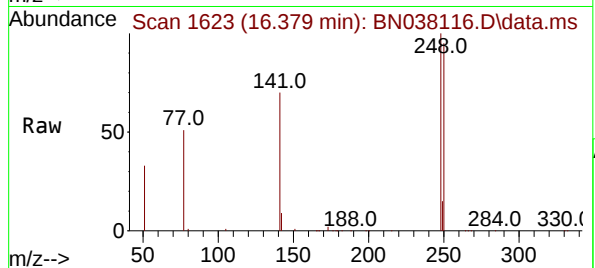




#21
4-Bromophenyl-phenylether
Concen: 3.305 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

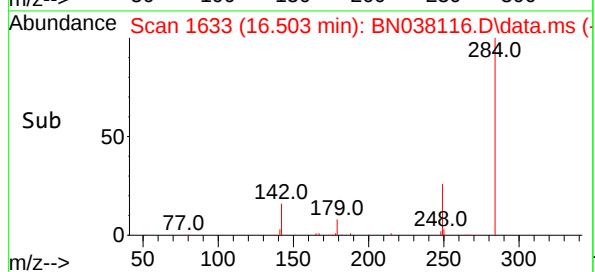
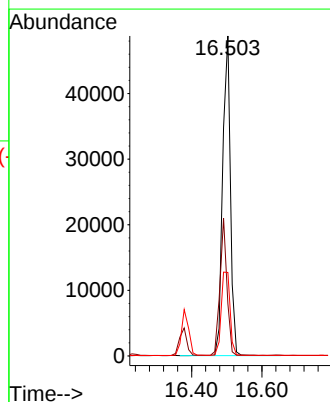
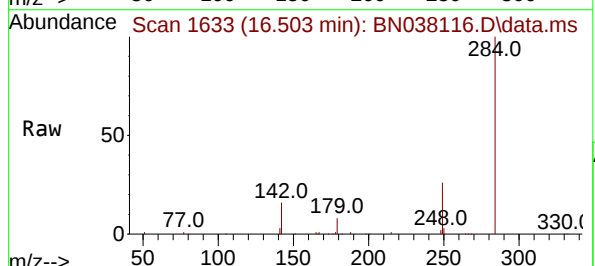
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

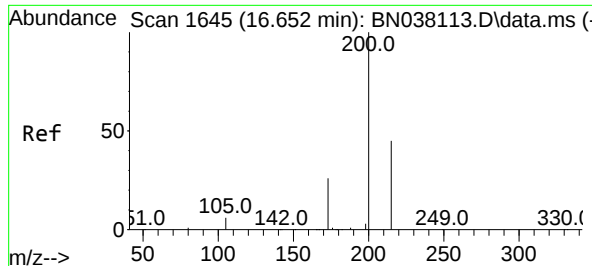
Tgt Ion:248 Resp: 67616
Ion Ratio Lower Upper
248 100
250 95.3 76.2 114.2
141 69.9 57.6 86.4



#22
Hexachlorobenzene
Concen: 3.185 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion:284 Resp: 74101
Ion Ratio Lower Upper
284 100
142 38.7 30.5 45.7
249 29.9 23.5 35.3

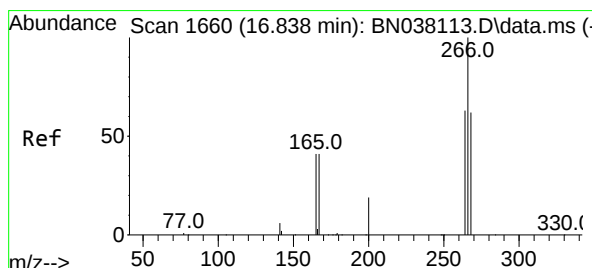
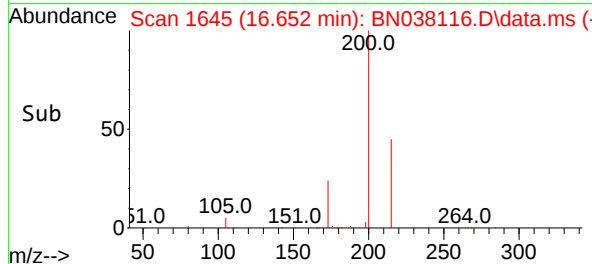
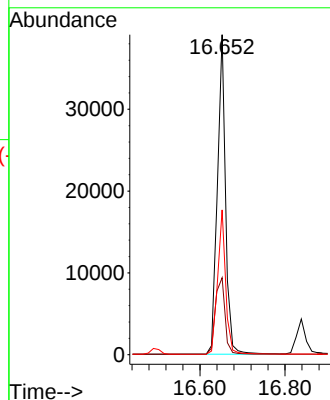
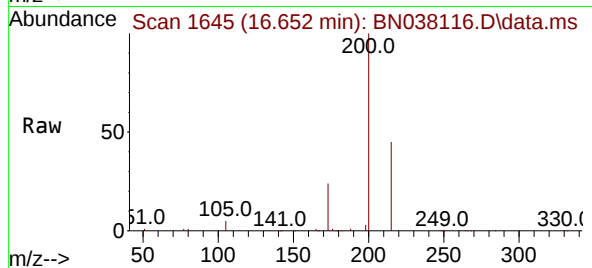




#23
Atrazine
Concen: 3.482 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

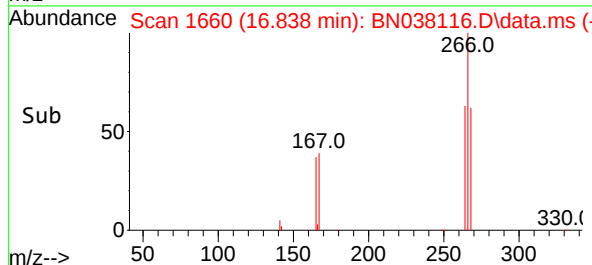
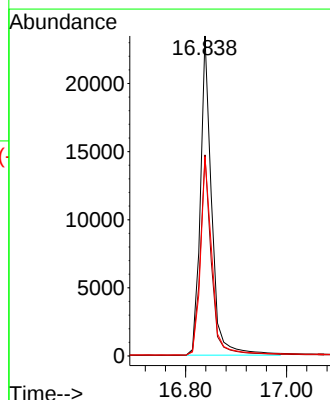
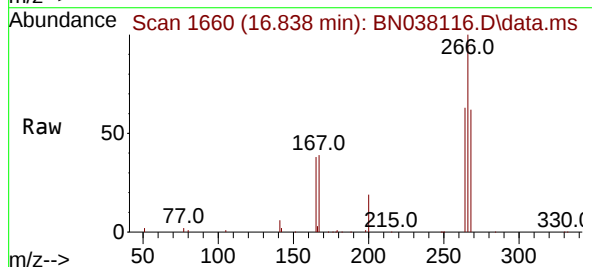
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

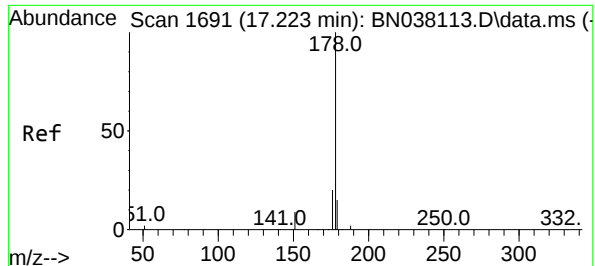
Tgt Ion:200 Resp: 52181
Ion Ratio Lower Upper
200 100
173 24.0 21.4 32.2
215 45.3 36.7 55.1



#24
Pentachlorophenol
Concen: 3.634 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion:266 Resp: 36424
Ion Ratio Lower Upper
266 100
264 62.5 49.3 73.9
268 63.4 50.6 75.8





#25

Phenanthrene

Concen: 3.257 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

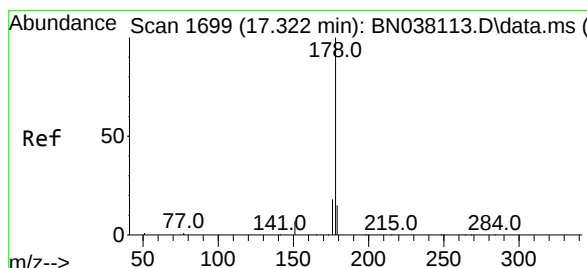
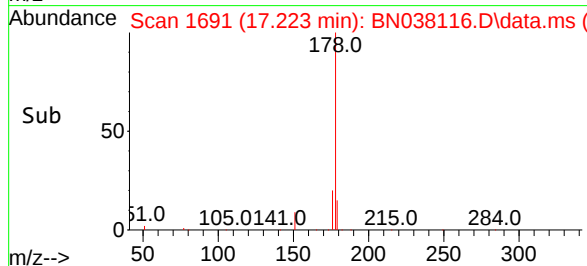
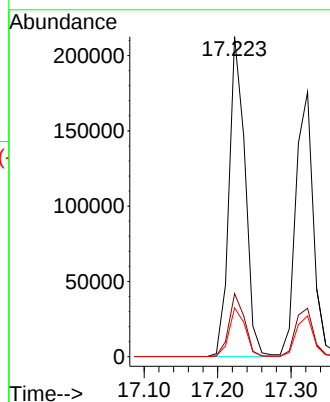
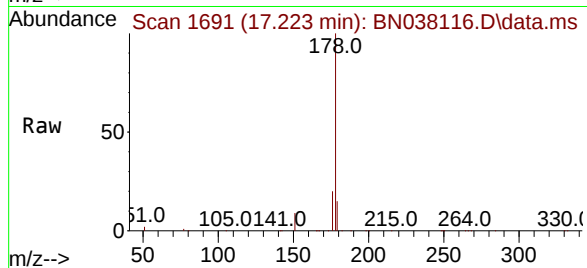
Tgt Ion:178 Resp: 322719

Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.3 12.2 18.4



#26

Anthracene

Concen: 3.408 ng

RT: 17.322 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

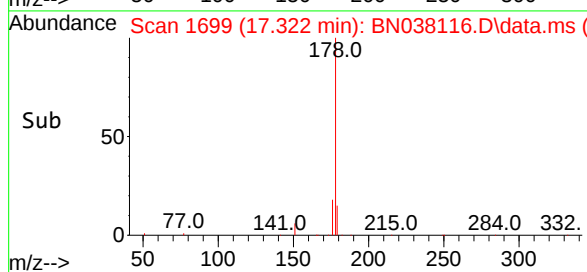
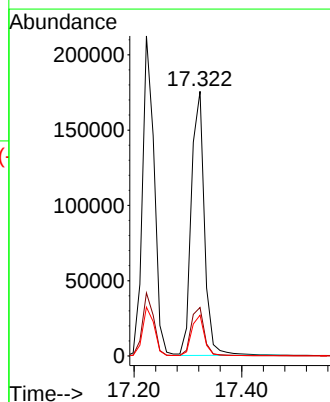
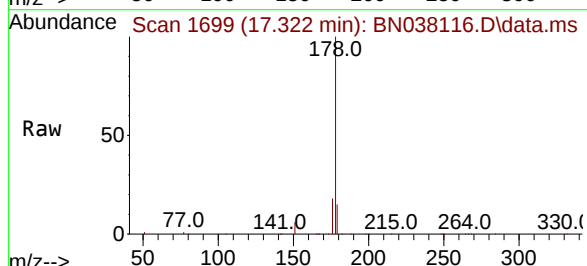
Tgt Ion:178 Resp: 295333

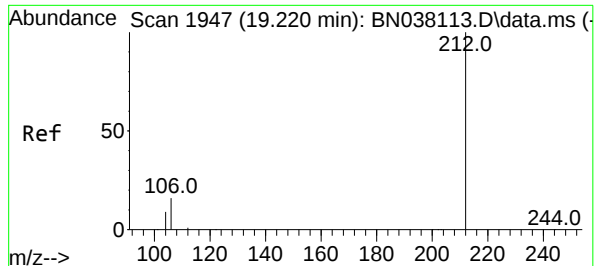
Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 3.348 ng

RT: 19.220 min Scan# 1947

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

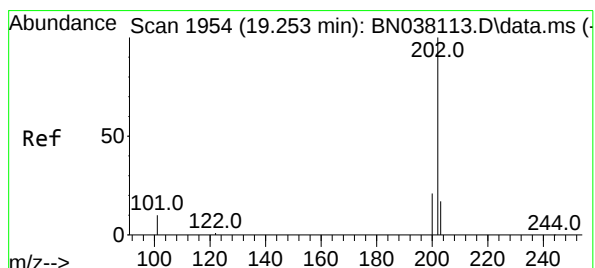
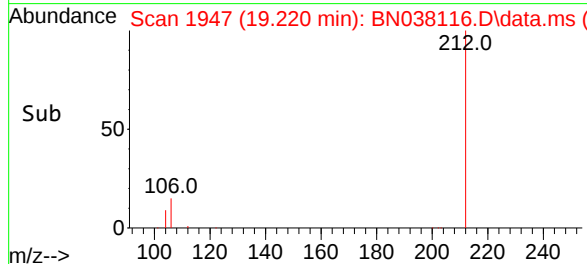
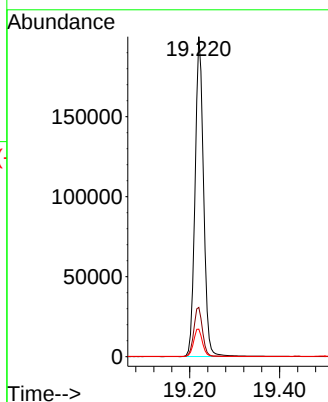
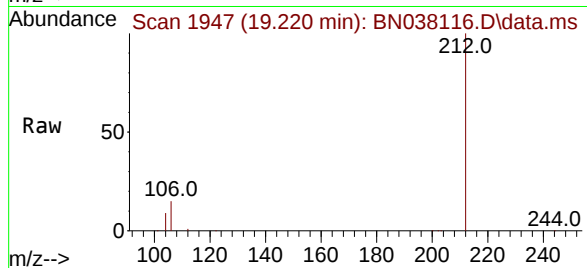
Tgt Ion:212 Resp: 263418

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 8.9 7.1 10.7



#28

Fluoranthene

Concen: 3.363 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

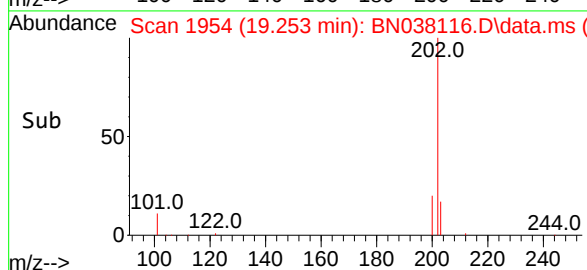
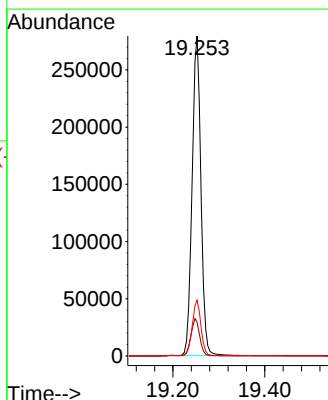
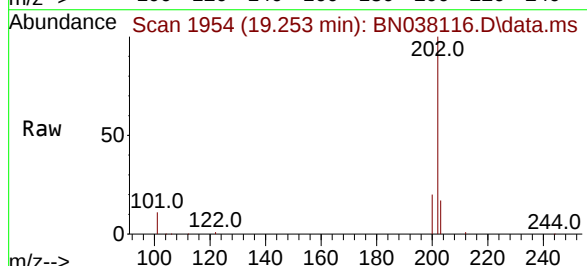
Tgt Ion:202 Resp: 372238

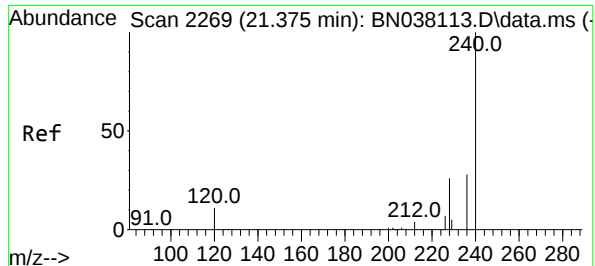
Ion Ratio Lower Upper

202 100

101 11.8 9.4 14.2

203 17.2 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

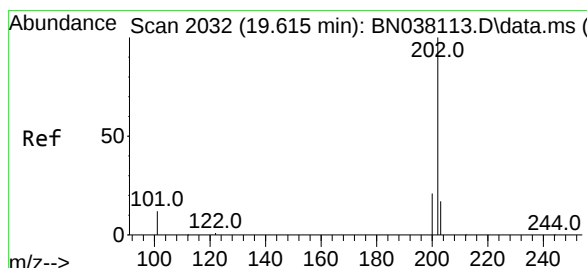
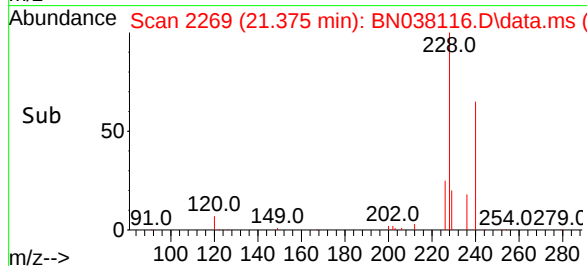
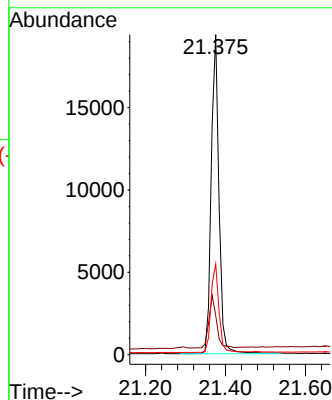
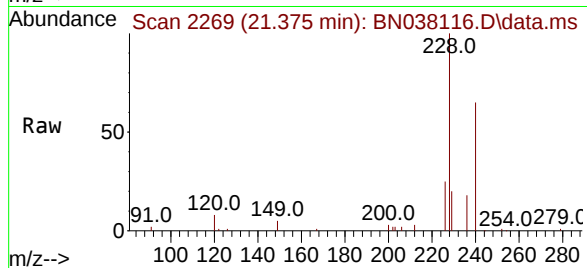
Tgt Ion:240 Resp: 26115

Ion Ratio Lower Upper

240 100

120 12.3 10.7 16.1

236 28.4 23.1 34.7



#30

Pyrene

Concen: 3.130 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

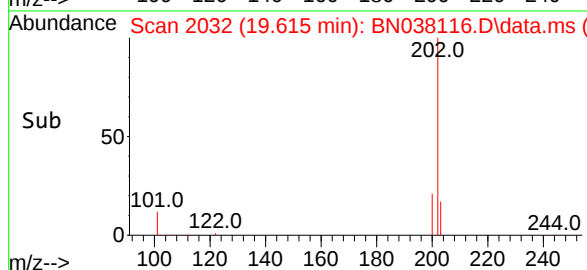
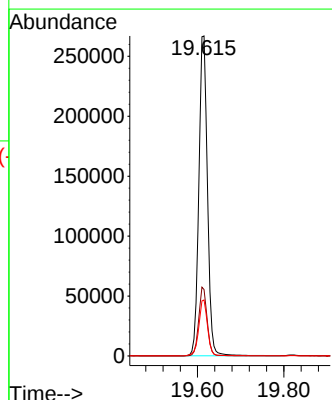
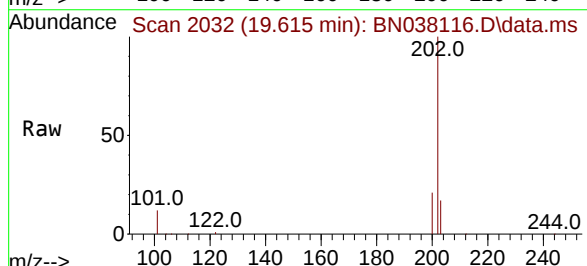
Tgt Ion:202 Resp: 368946

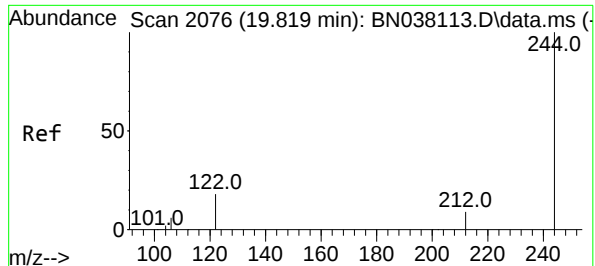
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.7 14.2 21.2

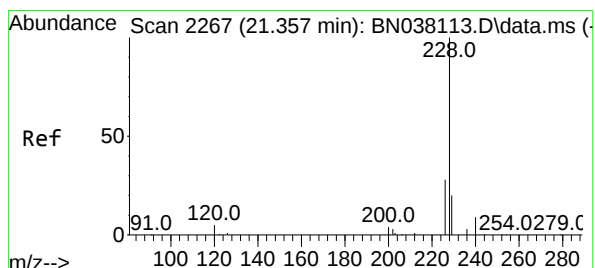
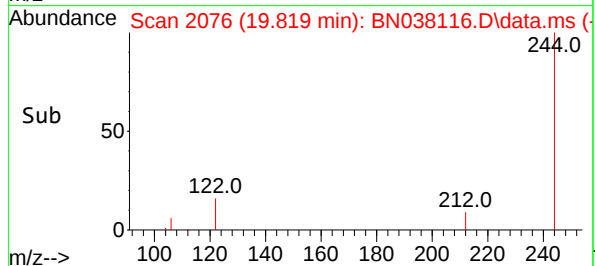
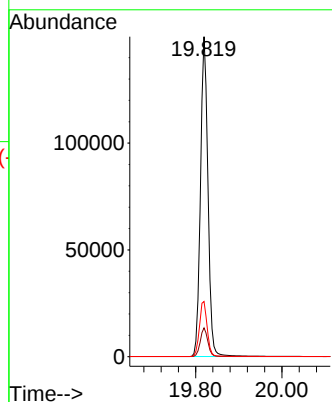
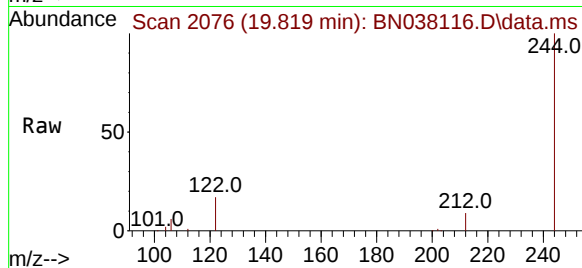




#31
Terphenyl-d14
Concen: 3.176 ng
RT: 19.819 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

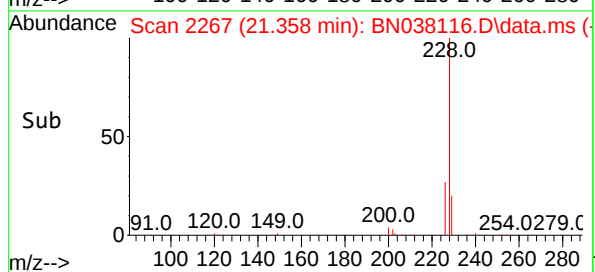
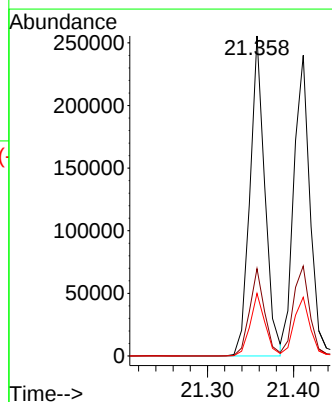
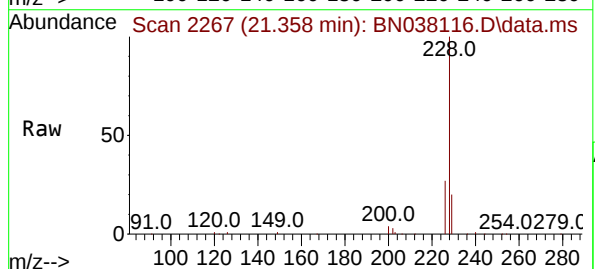
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

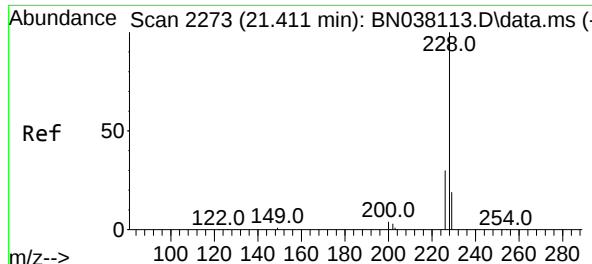
Tgt Ion:244 Resp: 180175
Ion Ratio Lower Upper
244 100
212 9.0 7.8 11.6
122 17.3 15.2 22.8



#32
Benzo(a)anthracene
Concen: 3.306 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038116.D
Acq: 28 Oct 2025 16:02

Tgt Ion:228 Resp: 308037
Ion Ratio Lower Upper
228 100
226 27.3 22.2 33.4
229 19.5 15.8 23.8





#33

Chrysene

Concen: 3.136 ng

RT: 21.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

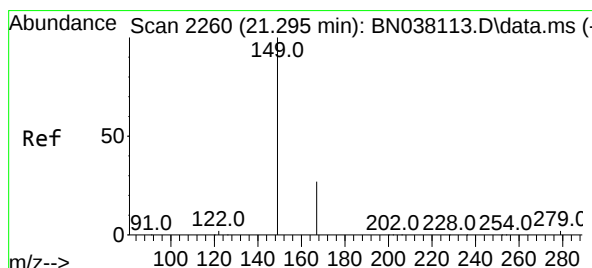
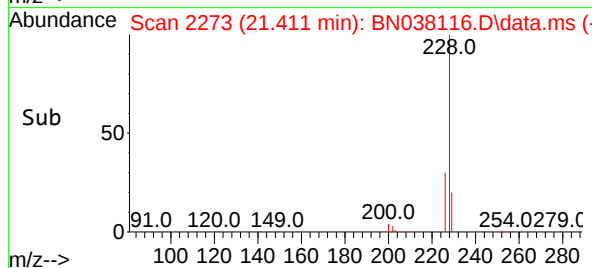
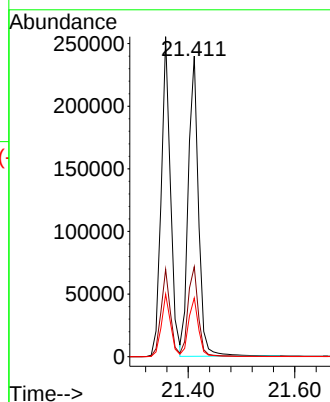
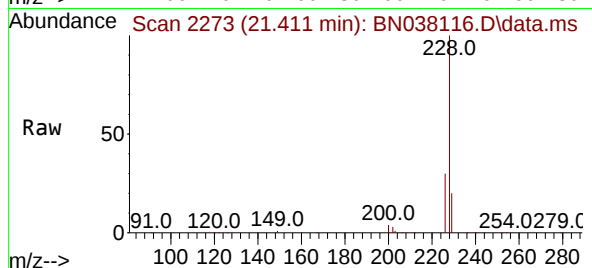
Tgt Ion:228 Resp: 317065

Ion Ratio Lower Upper

228 100

226 29.9 24.3 36.5

229 19.5 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.209 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

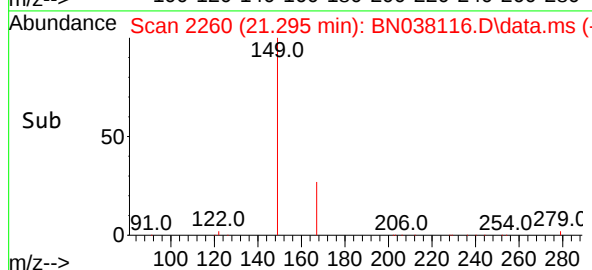
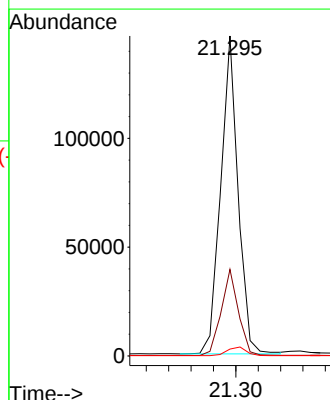
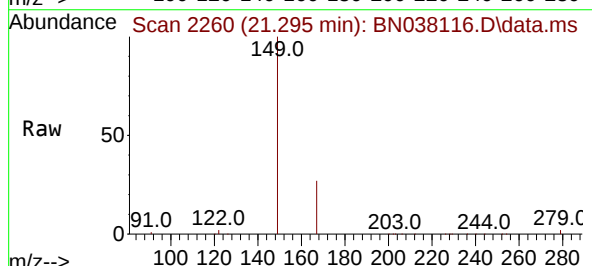
Tgt Ion:149 Resp: 157480

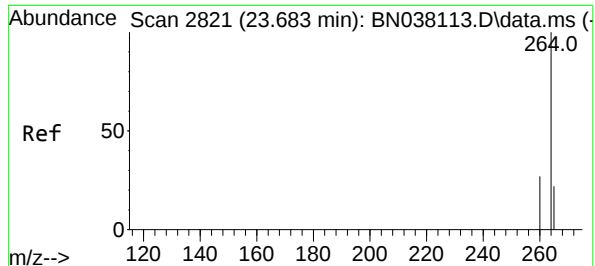
Ion Ratio Lower Upper

149 100

167 26.9 21.1 31.7

279 3.0 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.683 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

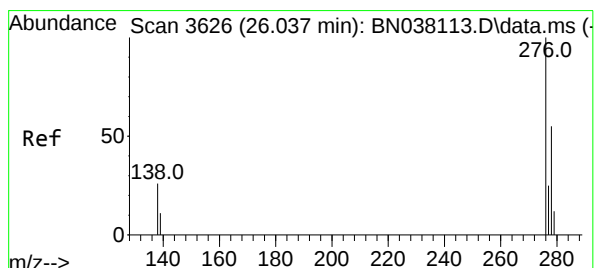
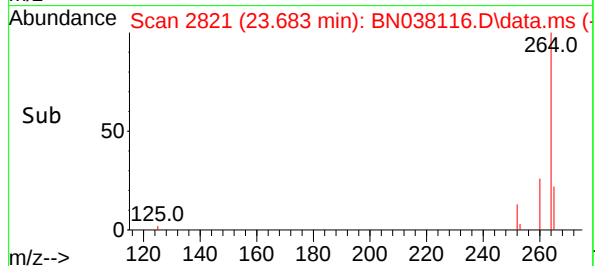
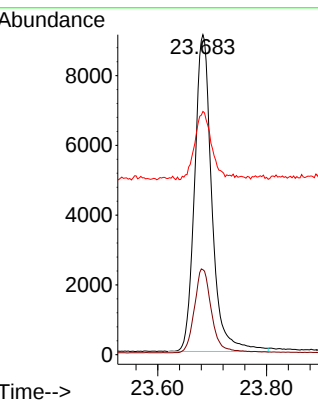
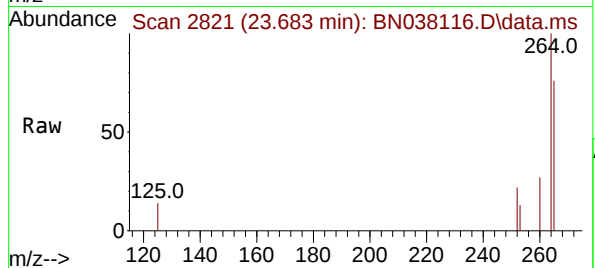
Tgt Ion:264 Resp: 19904

Ion Ratio Lower Upper

264 100

260 26.5 21.8 32.8

265 76.0 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.386 ng

RT: 26.031 min Scan# 3624

Delta R.T. -0.003 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

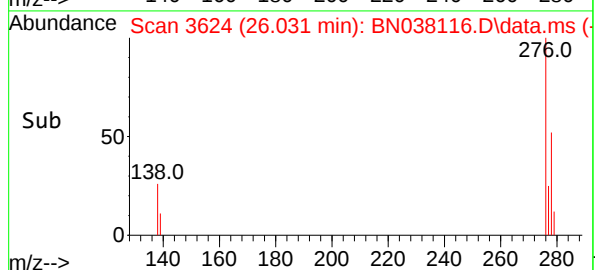
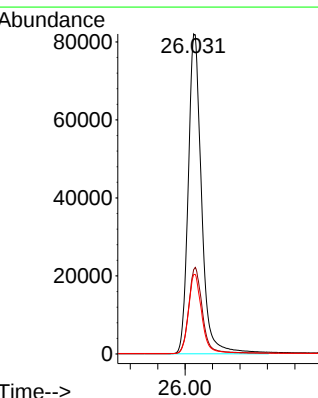
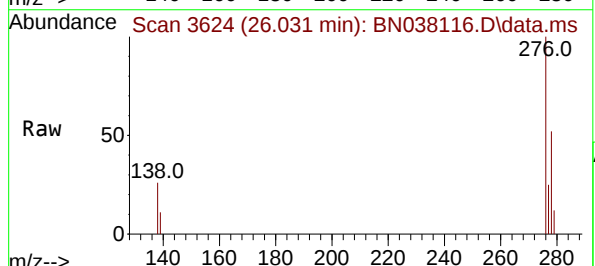
Tgt Ion:276 Resp: 276870

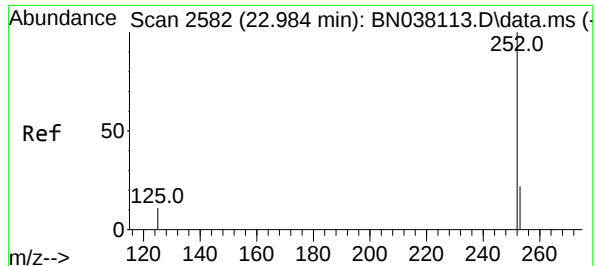
Ion Ratio Lower Upper

276 100

138 27.4 21.4 32.0

277 24.8 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 3.441 ng

RT: 22.984 min Scan# 2582

Delta R.T. 0.003 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

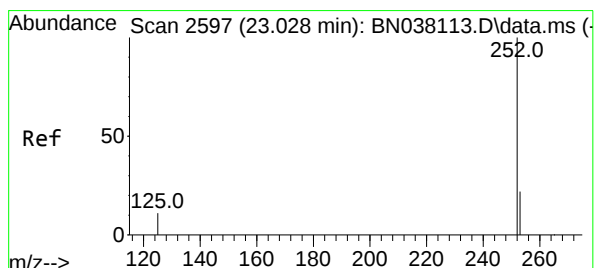
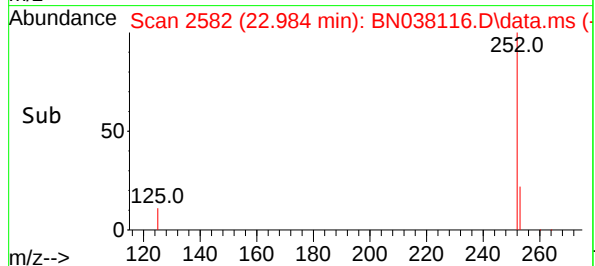
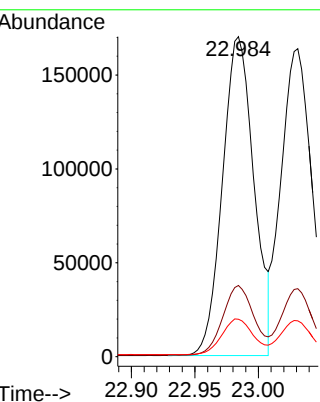
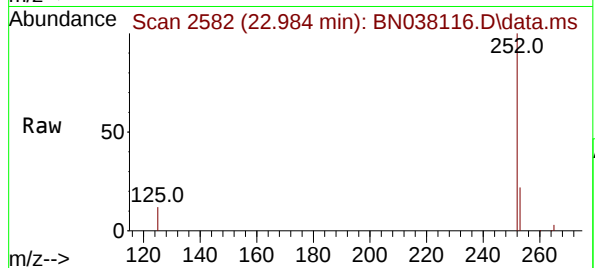
Tgt Ion:252 Resp: 292856

Ion Ratio Lower Upper

252 100

253 22.3 20.9 31.3

125 11.7 14.1 21.1#



#38

Benzo(k)fluoranthene

Concen: 3.411 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.003 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

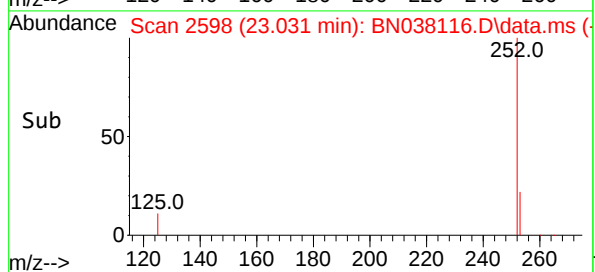
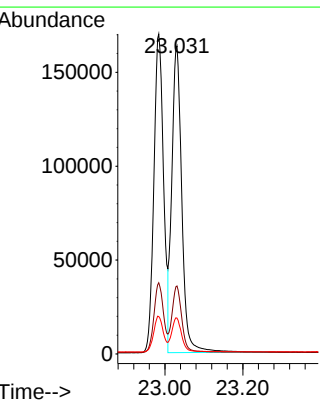
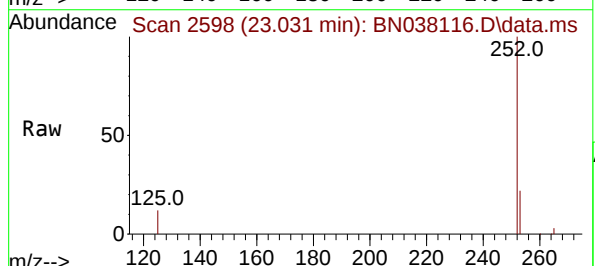
Tgt Ion:252 Resp: 292143

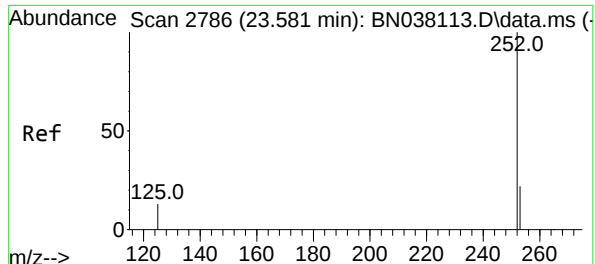
Ion Ratio Lower Upper

252 100

253 22.1 21.2 31.8

125 11.6 14.6 22.0#





#39

Benzo(a)pyrene

Concen: 3.392 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

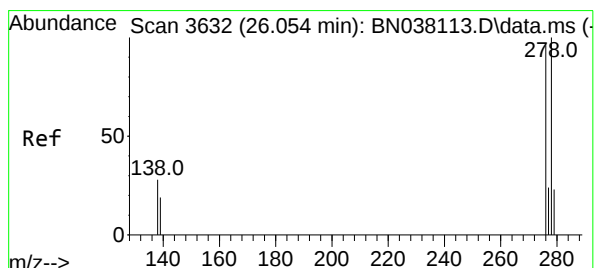
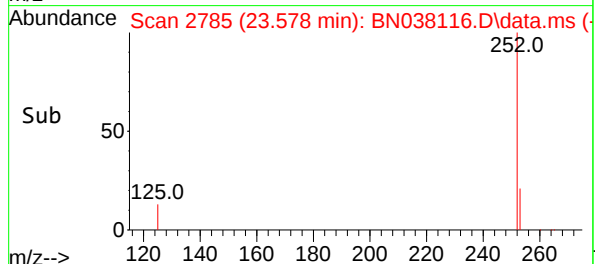
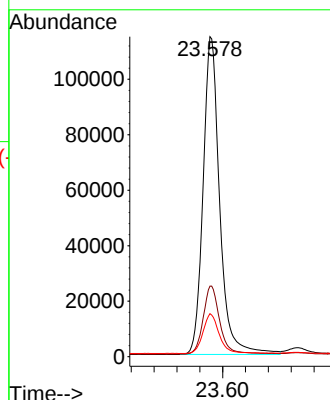
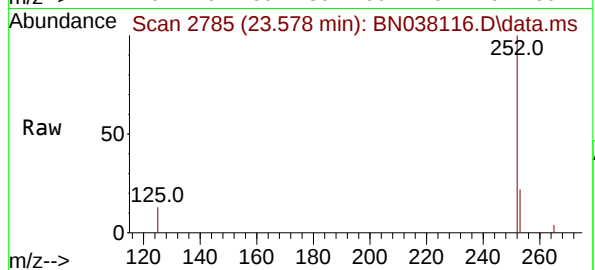
Tgt Ion:252 Resp: 231067

Ion Ratio Lower Upper

252 100

253 22.1 23.1 34.7#

125 13.4 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 3.449 ng

RT: 26.051 min Scan# 3631

Delta R.T. 0.003 min

Lab File: BN038116.D

Acq: 28 Oct 2025 16:02

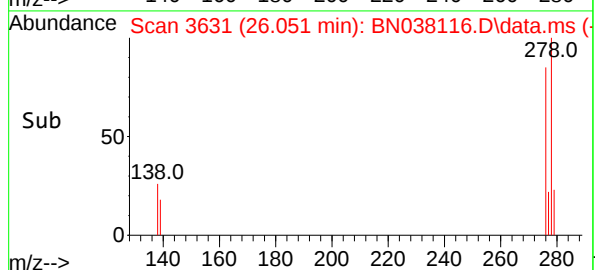
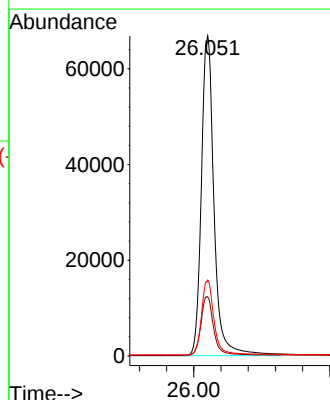
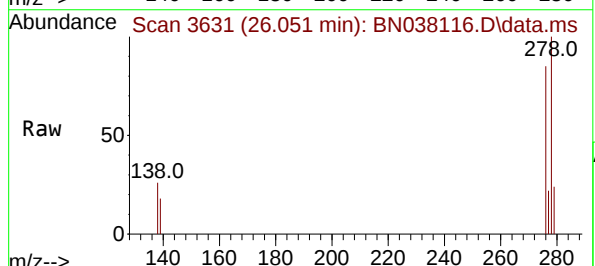
Tgt Ion:278 Resp: 217022

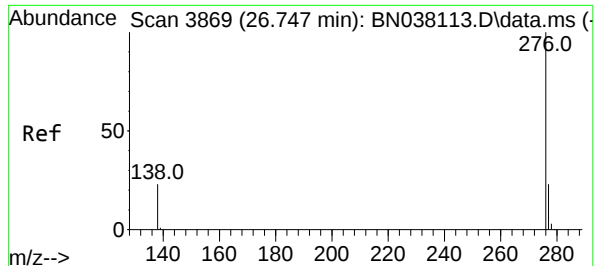
Ion Ratio Lower Upper

278 100

139 18.4 17.6 26.4

279 23.7 22.6 33.8





#41

Benzo(g,h,i)perylene

Concen: 3.274 ng

RT: 26.750 min Scan# 3869

Delta R.T. 0.000 min

Lab File: BN038116.D

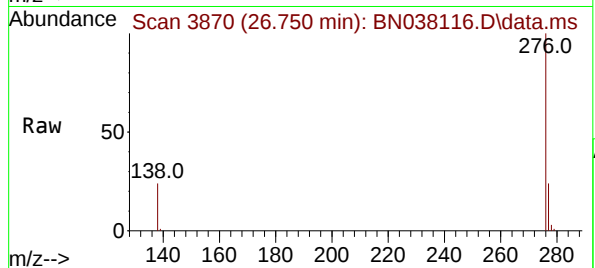
Acq: 28 Oct 2025 16:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



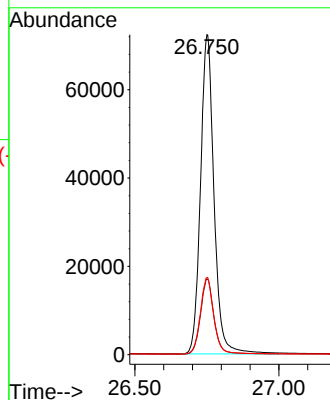
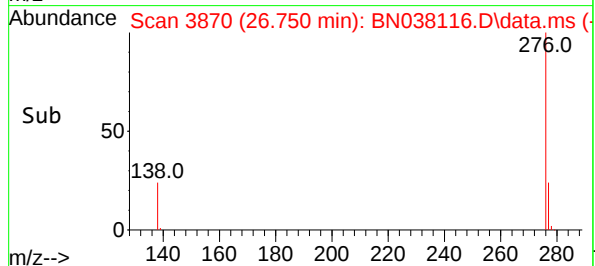
Tgt Ion:276 Resp: 235264

Ion Ratio Lower Upper

276 100

277 23.7 19.7 29.5

138 24.1 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038117.D
 Acq On : 28 Oct 2025 16:38
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Oct 28 17:31:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 28 17:15:13 2025
 Response via : Initial Calibration

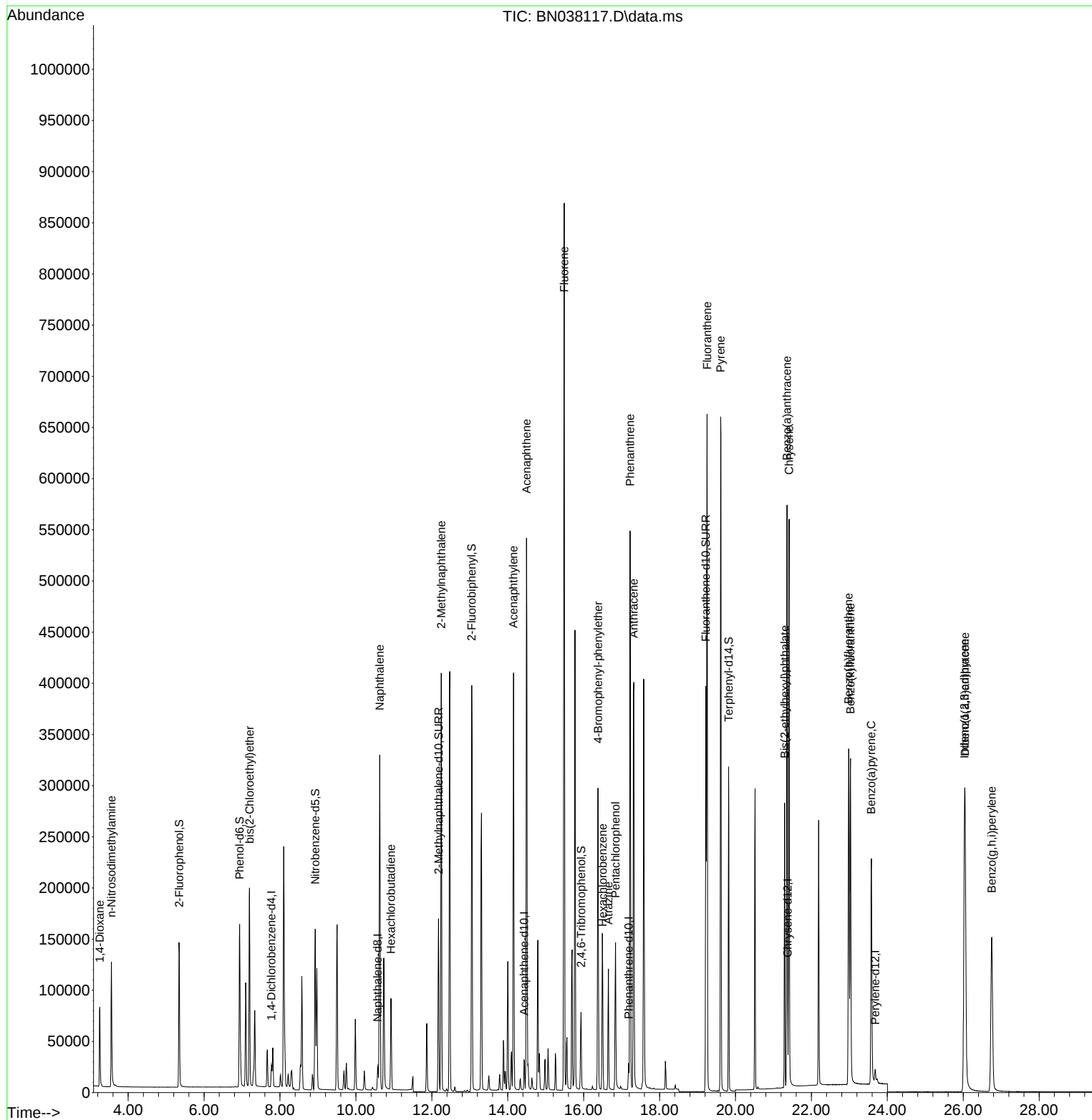
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	10579	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	31197	0.400	ng	# 0.00
13) Acenaphthene-d10	14.430	164	17960	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	33242	0.400	ng	0.00
29) Chrysene-d12	21.375	240	25416	0.400	ng	0.00
35) Perylene-d12	23.680	264	18172	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	116608	4.679	ng	0.00
5) Phenol-d6	6.937	99	150343	4.953	ng	0.00
8) Nitrobenzene-d5	8.929	82	119764	4.757	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	225769	5.068	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	43520	5.881	ng	0.00
15) 2-Fluorobiphenyl	13.051	172	335695	4.667	ng	0.00
27) Fluoranthene-d10	19.220	212	419371	5.003	ng	0.00
31) Terphenyl-d14	19.819	244	283126	5.127	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.254	88	51426	4.705	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.557	42	68522	4.871	ng	96
6) bis(2-Chloroethyl)ether	7.197	93	142662	4.784	ng	99
9) Naphthalene	10.626	128	422794	4.920	ng	99
10) Hexachlorobutadiene	10.925	225	68839	4.748	ng	# 99
12) 2-Methylnaphthalene	12.248	142	287955	5.025	ng	99
16) Acenaphthylene	14.152	152	428380	5.267	ng	99
17) Acenaphthene	14.494	154	291166	5.117	ng	95
18) Fluorene	15.489	166	389813	5.227	ng	98
21) 4-Bromophenyl-phenylether	16.379	248	114170	5.239	ng	# 92
22) Hexachlorobenzene	16.503	284	123999	5.003	ng	99
23) Atrazine	16.652	200	87823	5.501	ng	97
24) Pentachlorophenol	16.838	266	66071	6.188	ng	99
25) Phenanthrene	17.223	178	539294	5.110	ng	100
26) Anthracene	17.322	178	499584	5.411	ng	99
28) Fluoranthene	19.253	202	587710	4.984	ng	99
30) Pyrene	19.610	202	586526	5.112	ng	100
32) Benzo(a)anthracene	21.358	228	462496	5.100	ng	100
33) Chrysene	21.411	228	473389	4.811	ng	99
34) Bis(2-ethylhexyl)phtha...	21.295	149	223481	4.679	ng	99
36) Indeno(1,2,3-cd)pyrene	26.034	276	403825	5.409	ng	99
37) Benzo(b)fluoranthene	22.981	252	413811	5.326	ng	# 90
38) Benzo(k)fluoranthene	23.028	252	421255	5.387	ng	# 88
39) Benzo(a)pyrene	23.578	252	332107	5.340	ng	# 83
40) Dibenzo(a,h)anthracene	26.048	278	318538	5.545	ng	91
41) Benzo(g,h,i)perylene	26.750	276	342713	5.223	ng	98

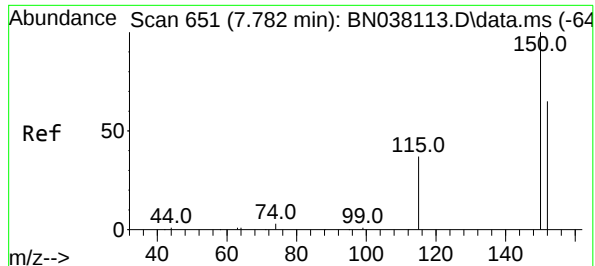
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN038117.D
Acq On : 28 Oct 2025 16:38
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

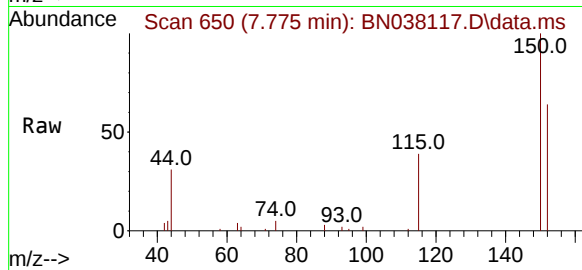
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 17:15:13 2025
Response via : Initial Calibration



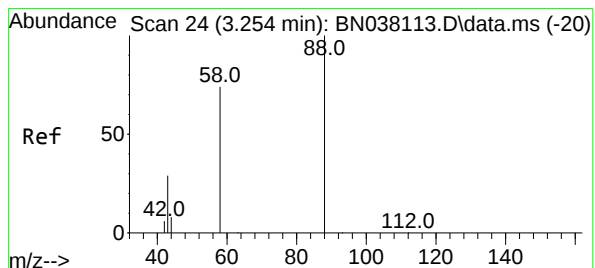
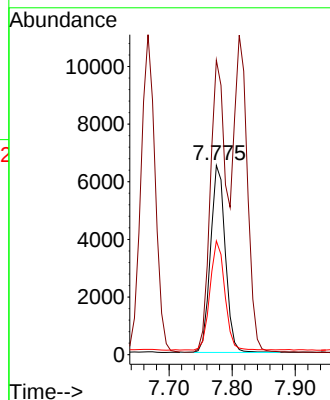


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

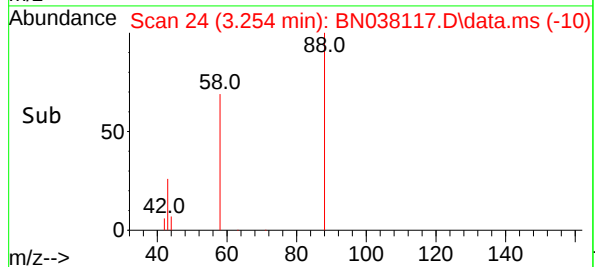
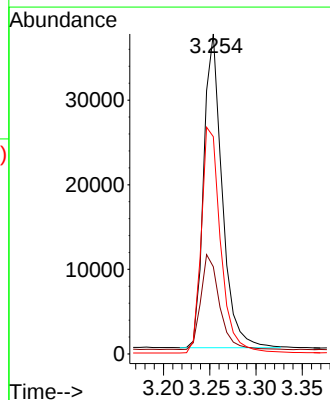
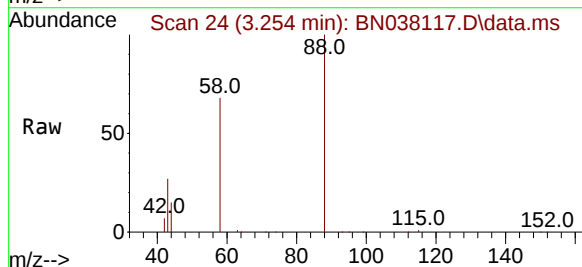


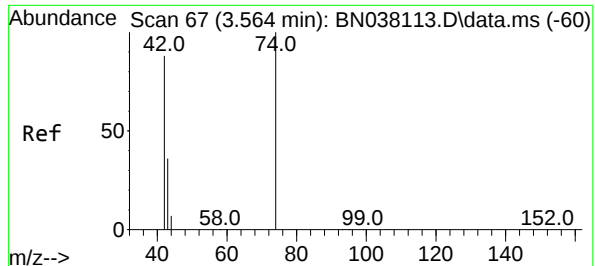
Tgt Ion:152 Resp: 10579
Ion Ratio Lower Upper
152 100
150 155.6 122.3 183.5
115 60.1 47.4 71.0



#2
1,4-Dioxane
Concen: 4.705 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion: 88 Resp: 51426
Ion Ratio Lower Upper
88 100
43 30.5 24.3 36.5
58 75.4 60.4 90.6

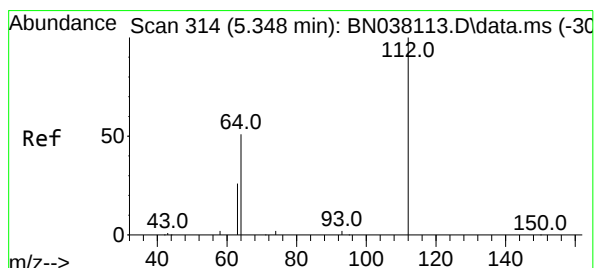
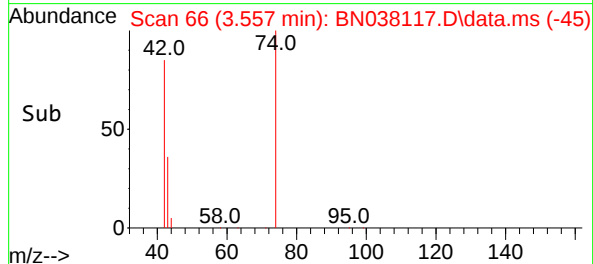
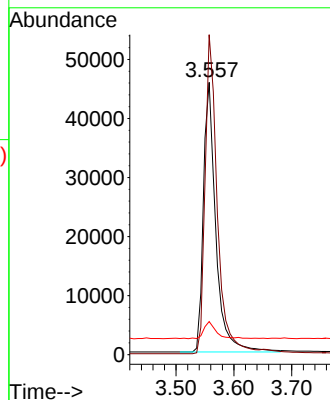
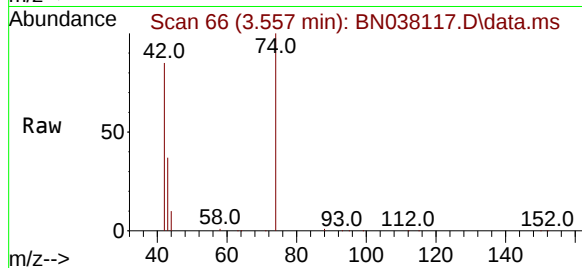




#3
n-Nitrosodimethylamine
Concen: 4.871 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

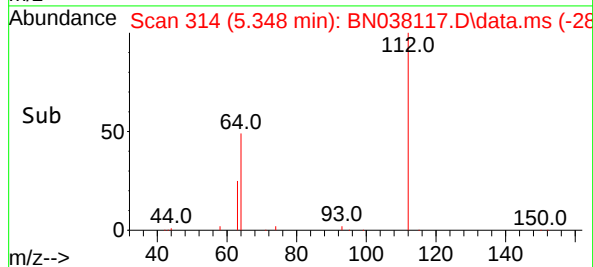
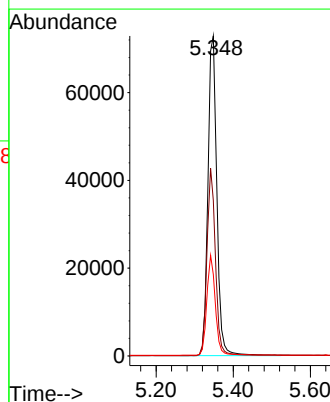
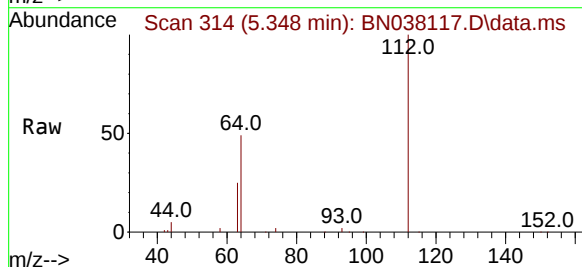
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BNA_N
ClientSampleId :
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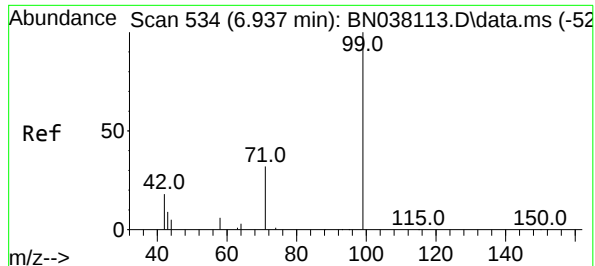
Tgt Ion: 42 Resp: 68522
Ion Ratio Lower Upper
42 100
74 116.1 96.8 145.2
44 6.5 5.3 7.9



#4
2-Fluorophenol
Concen: 4.679 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion: 112 Resp: 116608
Ion Ratio Lower Upper
112 100
64 56.1 45.4 68.0
63 29.9 23.2 34.8

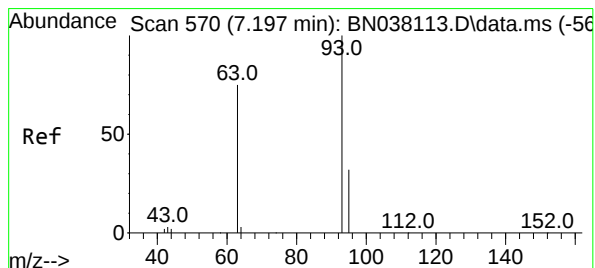
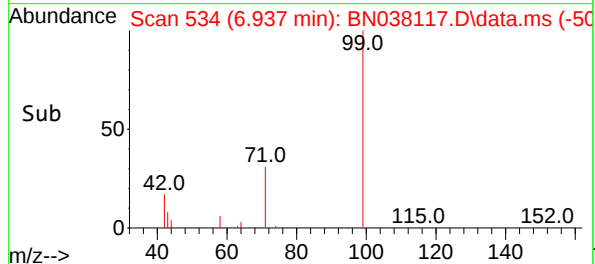
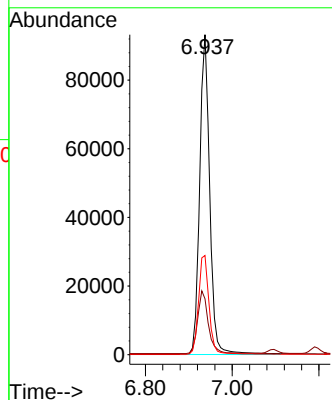
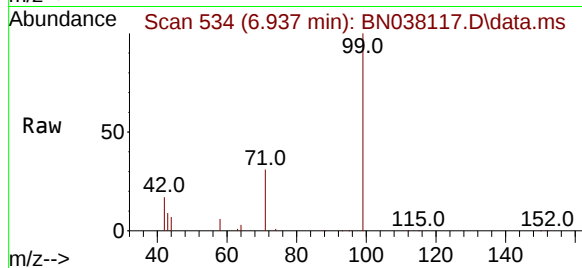




#5
Phenol-d6
Concen: 4.953 ng
RT: 6.937 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

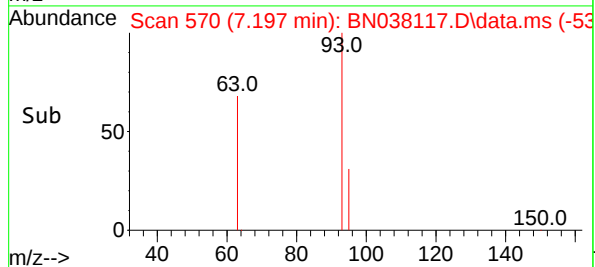
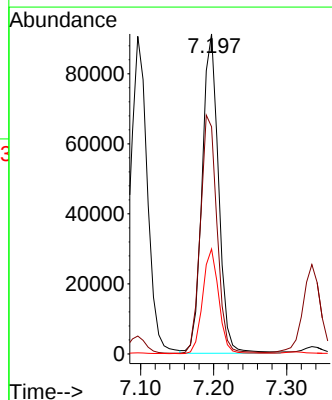
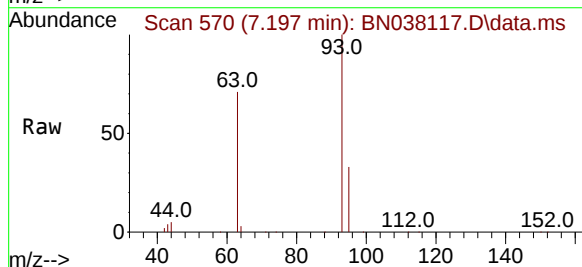
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

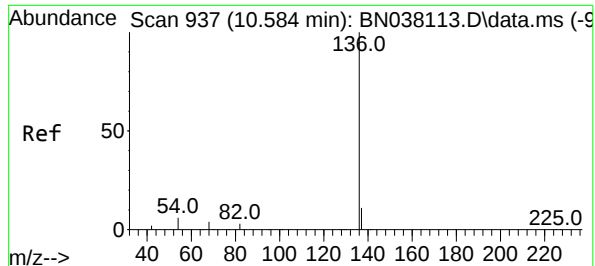
Tgt Ion: 99 Resp: 150343
Ion Ratio Lower Upper
99 100
42 20.9 16.6 24.8
71 32.5 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 4.784 ng
RT: 7.197 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion: 93 Resp: 142662
Ion Ratio Lower Upper
93 100
63 74.9 59.3 88.9
95 31.9 25.2 37.8

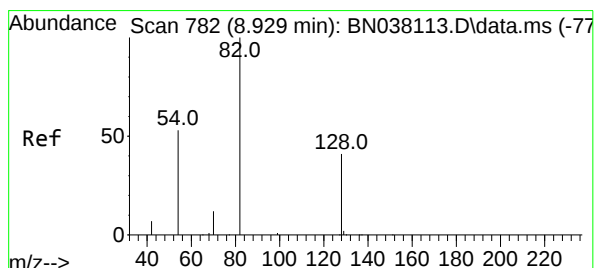
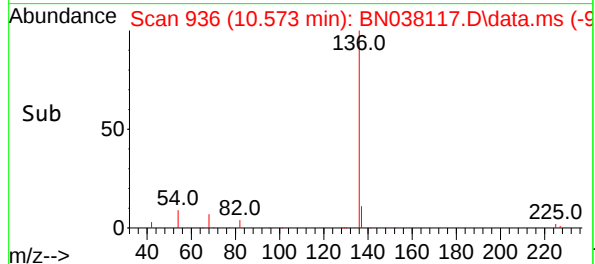
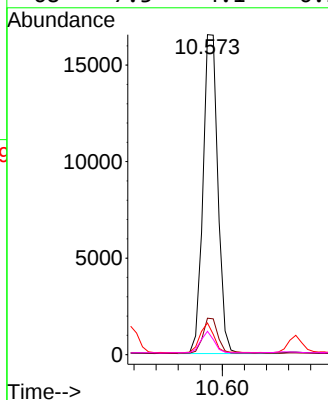
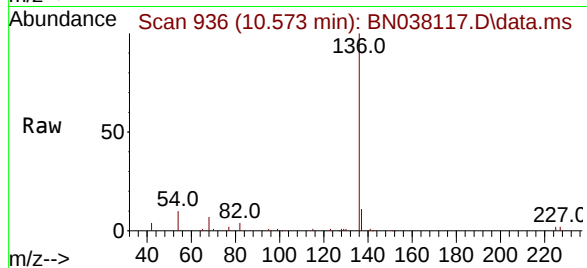




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

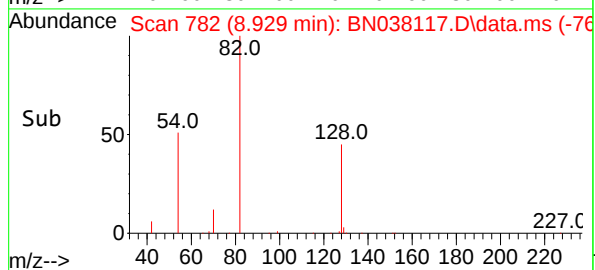
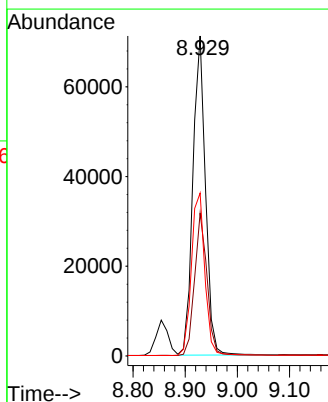
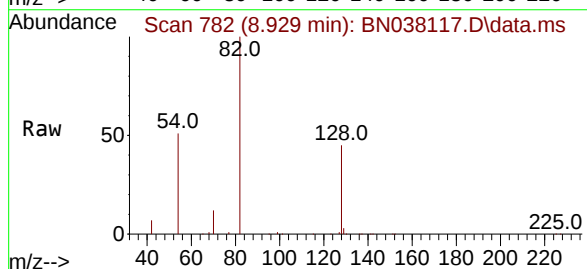
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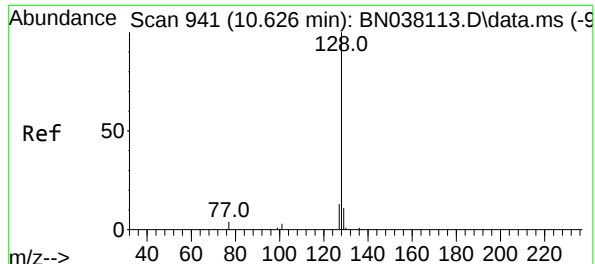
Tgt Ion:	136	Resp:	31197
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	9.9	5.2	7.8#
68	7.3	4.1	6.1#



#8
Nitrobenzene-d5
Concen: 4.757 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:	82	Resp:	119764
Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.1	51.1
54	50.9	43.5	65.3





#9

Naphthalene

Concen: 4.920 ng

RT: 10.626 min Scan# 941

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

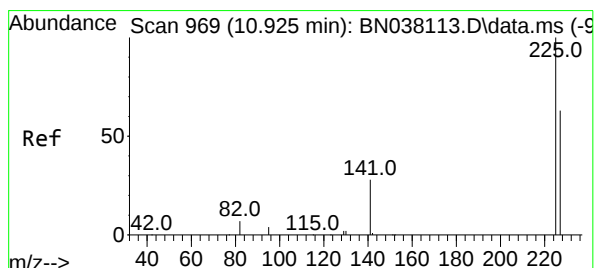
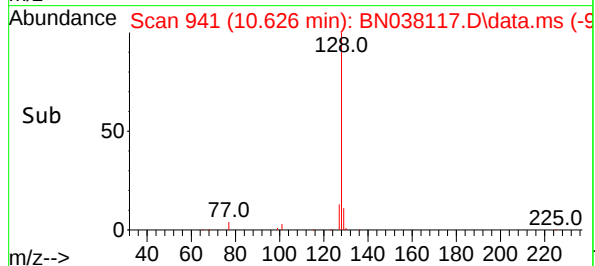
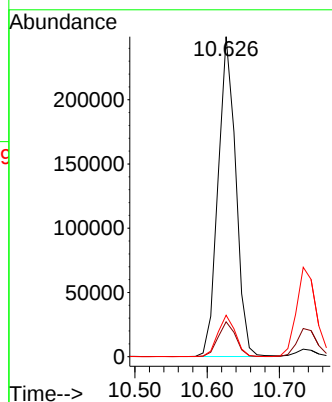
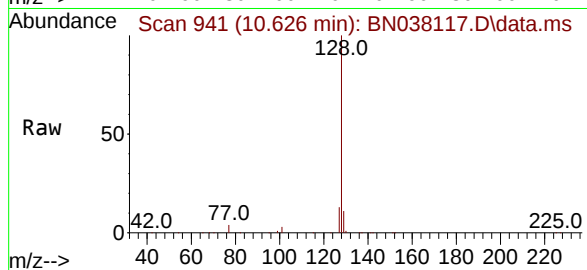
Tgt Ion:128 Resp: 422794

Ion Ratio Lower Upper

128 100

129 10.9 9.1 13.7

127 13.0 10.5 15.7



#10

Hexachlorobutadiene

Concen: 4.748 ng

RT: 10.925 min Scan# 969

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

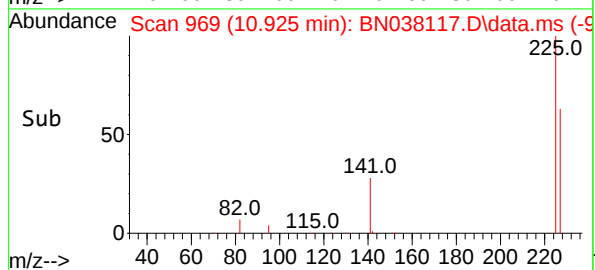
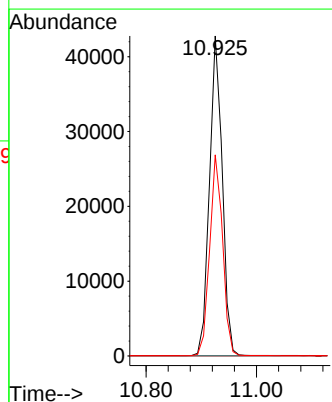
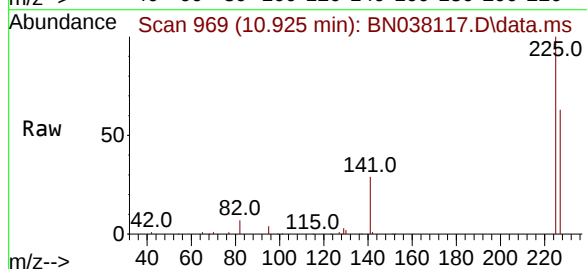
Tgt Ion:225 Resp: 68839

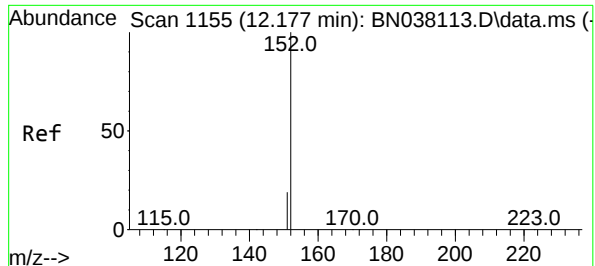
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 50.3 75.5

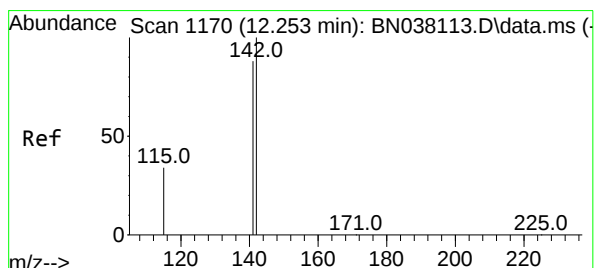
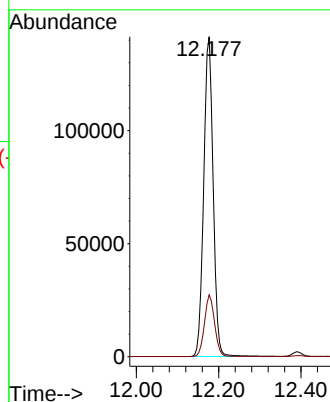
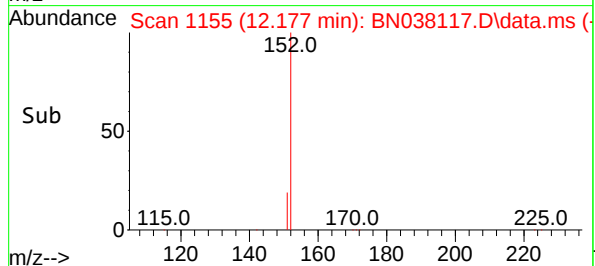
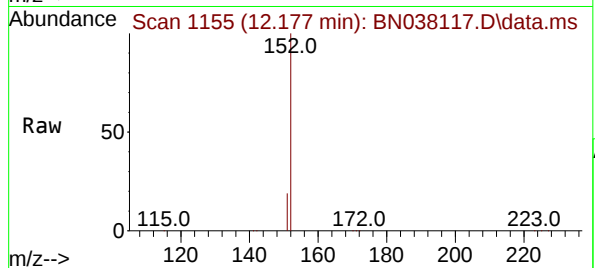




#11
2-Methylnaphthalene-d10
Concen: 5.068 ng
RT: 12.177 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

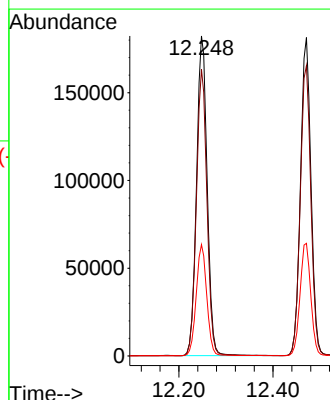
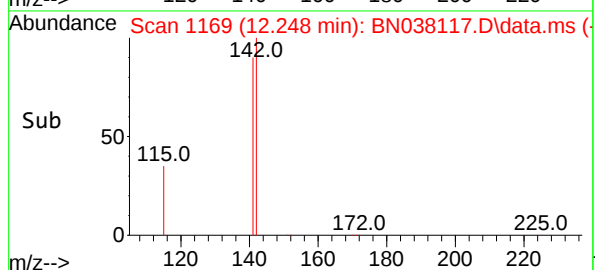
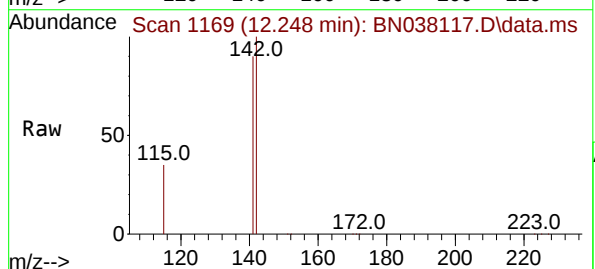
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BNA_N
ClientSampleId :
SSTDICC5.0

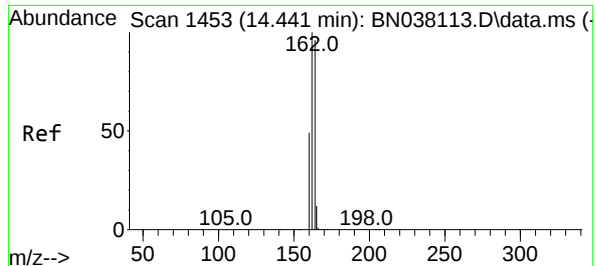
Tgt Ion:152 Resp: 225769
Ion Ratio Lower Upper
152 100
151 20.8 16.8 25.2



#12
2-Methylnaphthalene
Concen: 5.025 ng
RT: 12.248 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:142 Resp: 287955
Ion Ratio Lower Upper
142 100
141 89.6 70.3 105.5
115 34.8 27.8 41.6

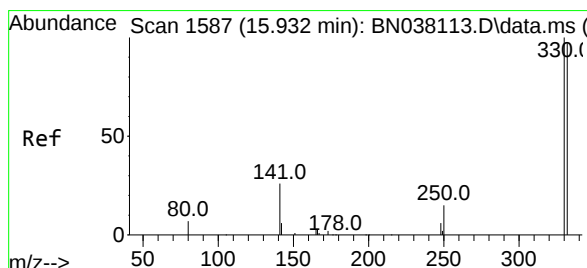
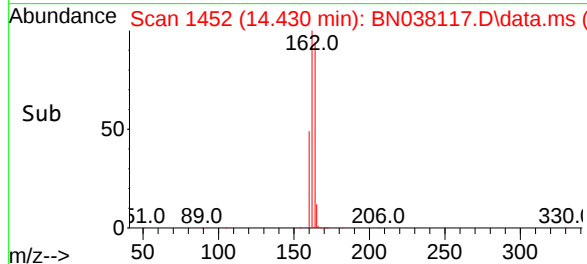
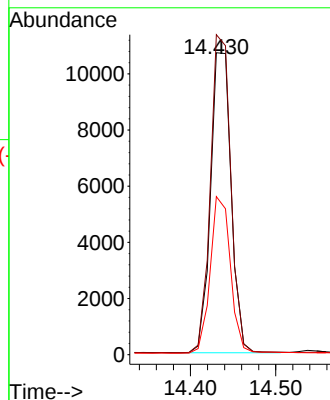
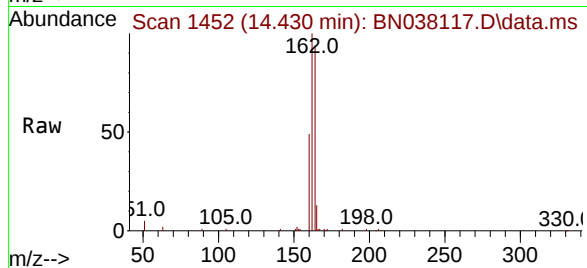




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1453
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

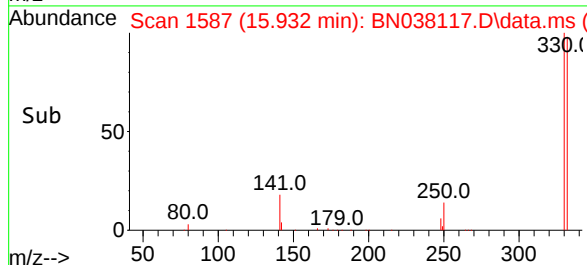
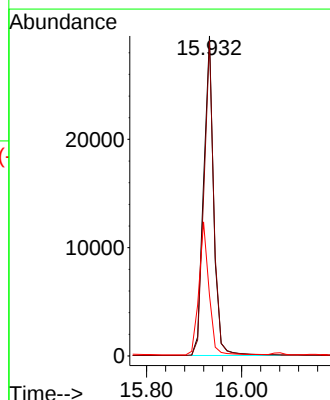
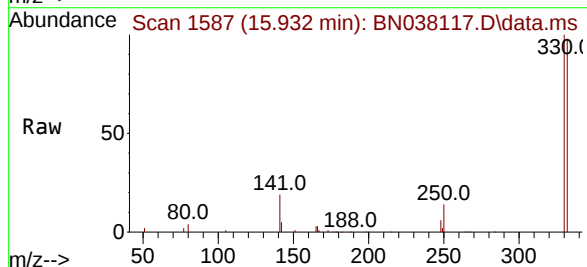
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

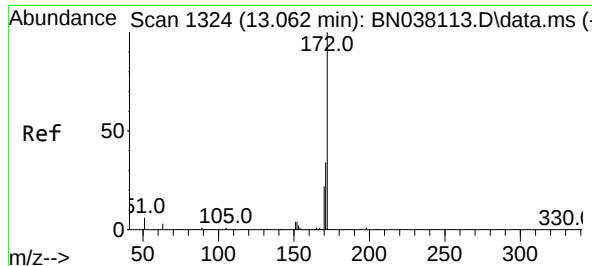
Tgt Ion:164 Resp: 17960
Ion Ratio Lower Upper
164 100
162 106.0 83.0 124.4
160 52.4 40.7 61.1



#14
2,4,6-Tribromophenol
Concen: 5.881 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:330 Resp: 43520
Ion Ratio Lower Upper
330 100
332 97.0 76.6 114.8
141 41.2 34.1 51.1

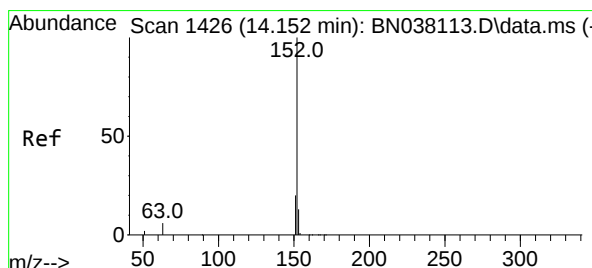
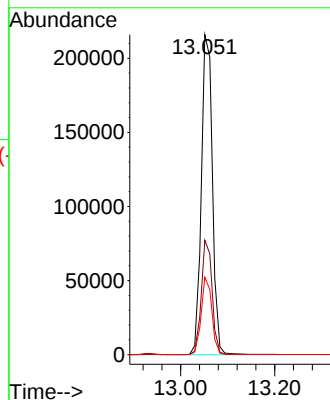
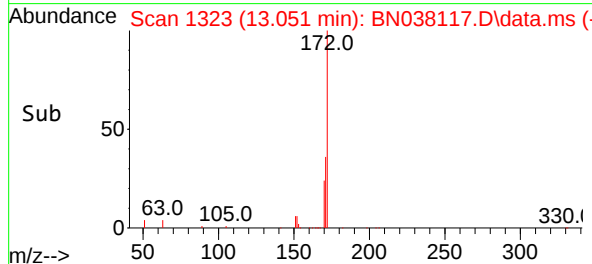
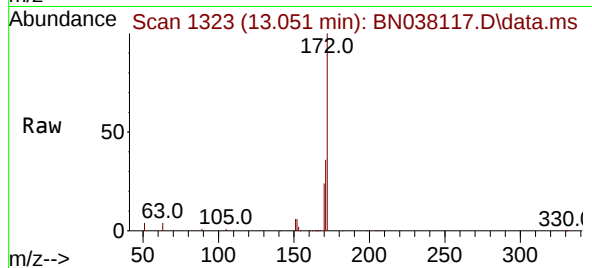




#15
2-Fluorobiphenyl
Concen: 4.667 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

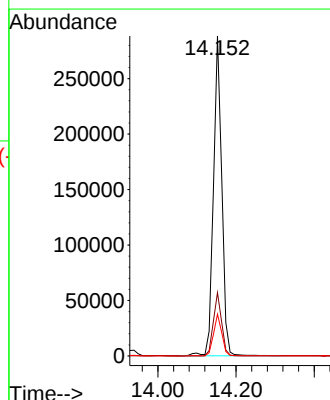
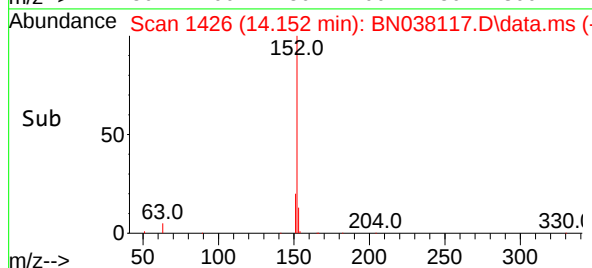
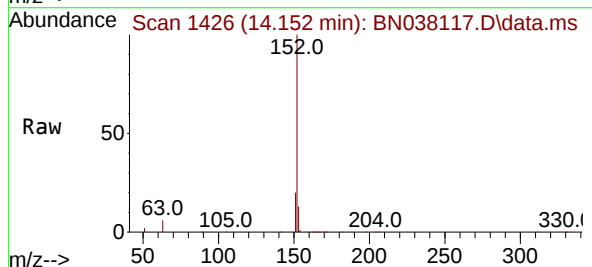
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

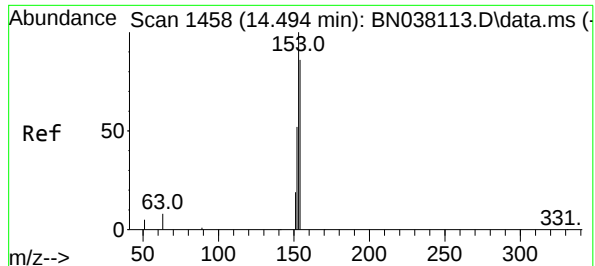
Tgt Ion:172 Resp: 335695
Ion Ratio Lower Upper
172 100
171 35.8 27.8 41.6
170 24.2 18.1 27.1



#16
Acenaphthylene
Concen: 5.267 ng
RT: 14.152 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:152 Resp: 428380
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.0 10.2 15.2

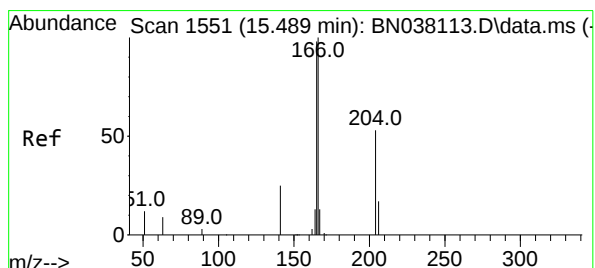
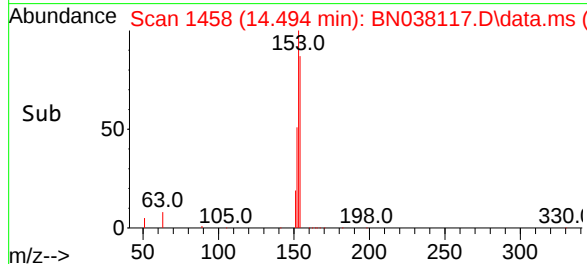
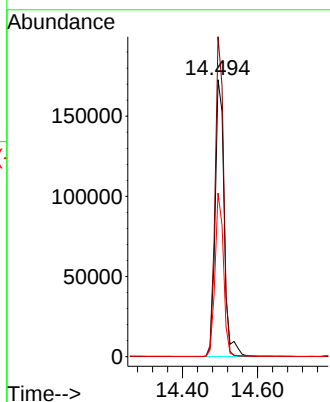
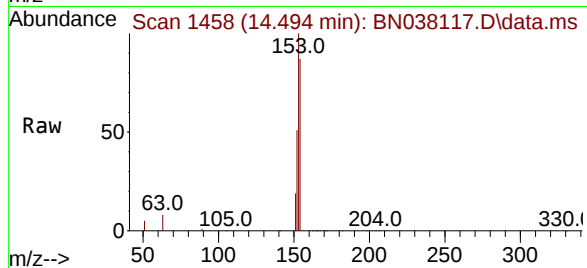




#17
Acenaphthene
Concen: 5.117 ng
RT: 14.494 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

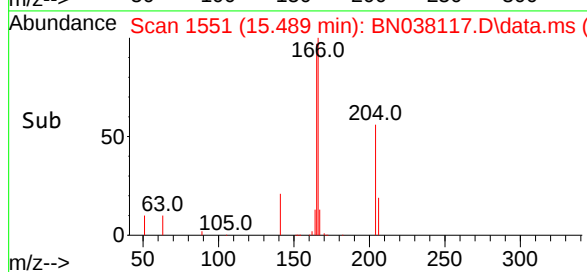
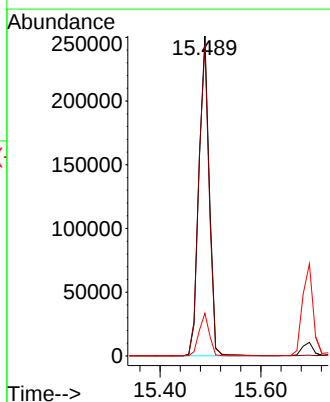
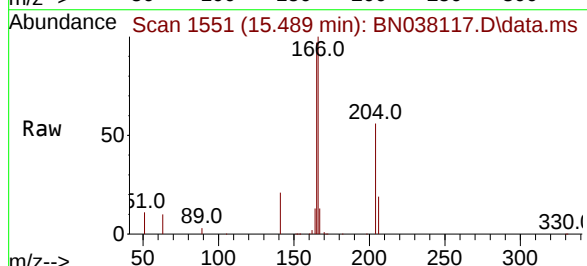
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

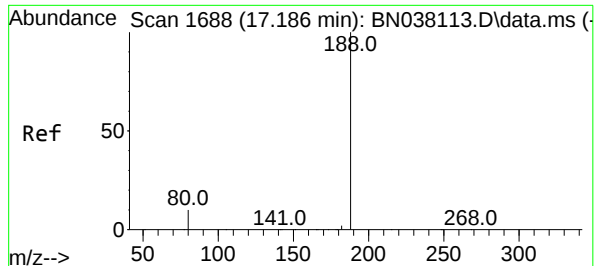
Tgt Ion:154 Resp: 291166
Ion Ratio Lower Upper
154 100
153 108.1 90.0 135.0
152 55.0 47.3 70.9



#18
Fluorene
Concen: 5.227 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:166 Resp: 389813
Ion Ratio Lower Upper
166 100
165 97.0 79.0 118.4
167 13.1 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

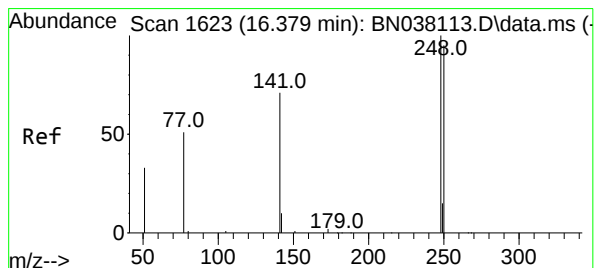
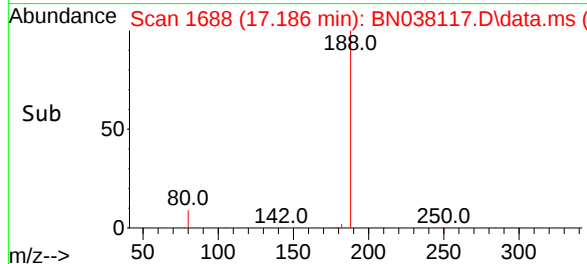
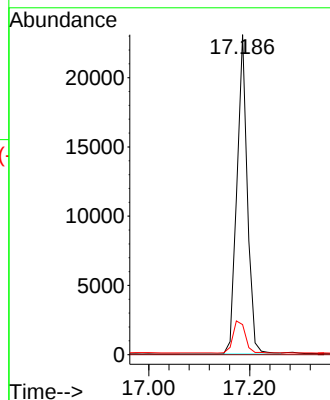
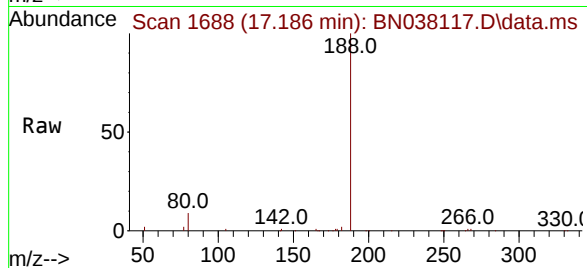
Tgt Ion:188 Resp: 33242

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 8.6 13.0



#21

4-Bromophenyl-phenylether

Concen: 5.239 ng

RT: 16.379 min Scan# 1623

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

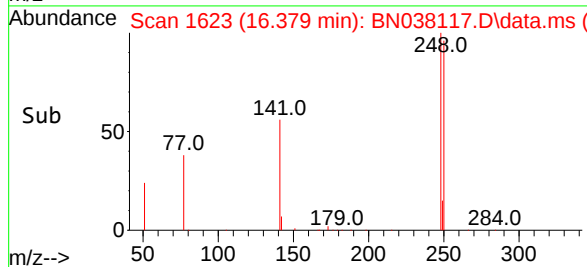
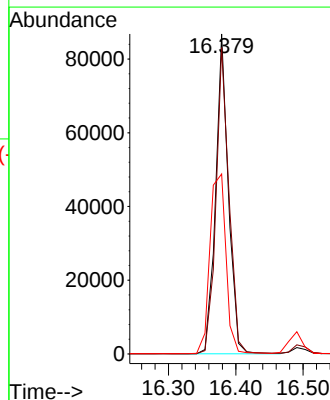
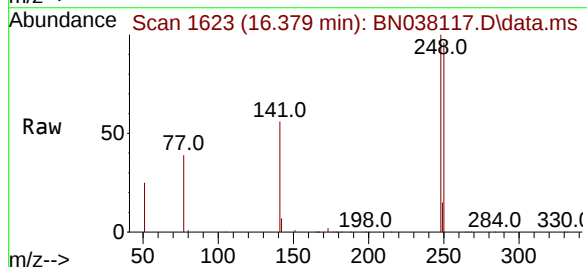
Tgt Ion:248 Resp: 114170

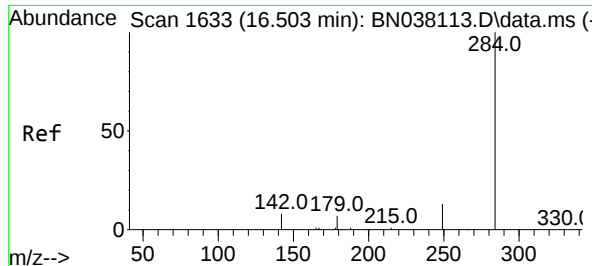
Ion Ratio Lower Upper

248 100

250 95.7 76.2 114.2

141 56.3 57.6 86.4#





#22

Hexachlorobenzene

Concen: 5.003 ng

RT: 16.503 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

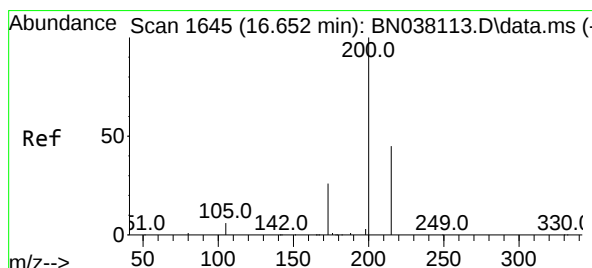
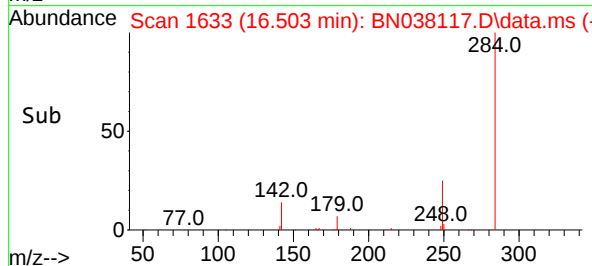
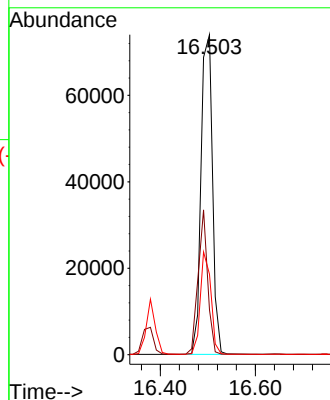
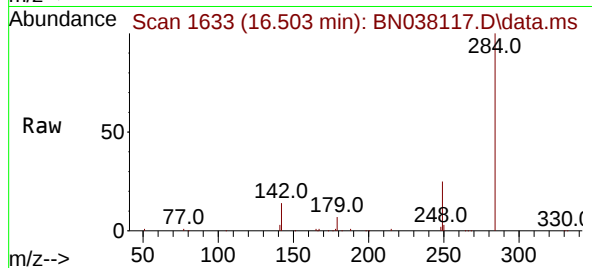
Tgt Ion:284 Resp: 123999

Ion Ratio Lower Upper

284 100

142 37.6 30.5 45.7

249 29.6 23.5 35.3



#23

Atrazine

Concen: 5.501 ng

RT: 16.652 min Scan# 1645

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

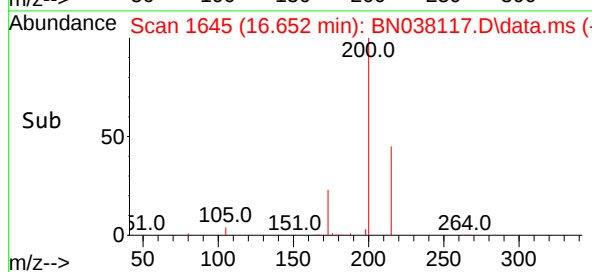
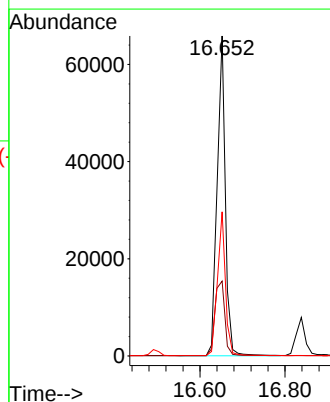
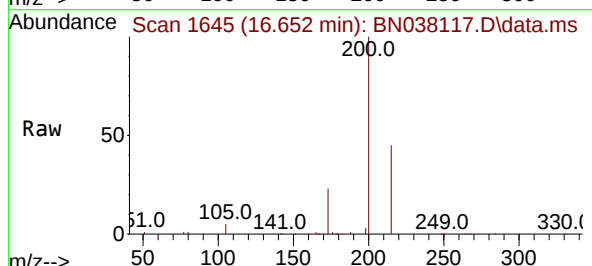
Tgt Ion:200 Resp: 87823

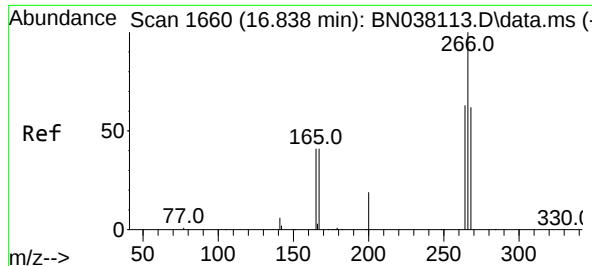
Ion Ratio Lower Upper

200 100

173 23.4 21.4 32.2

215 45.1 36.7 55.1





#24

Pentachlorophenol

Concen: 6.188 ng

RT: 16.838 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

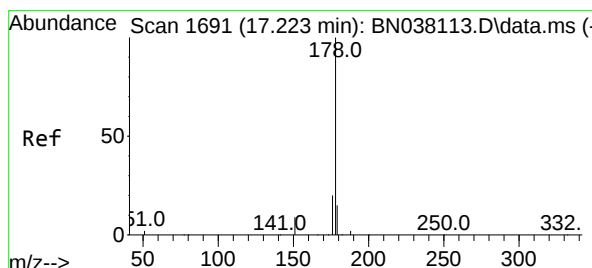
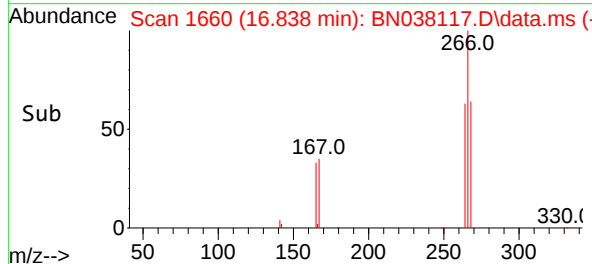
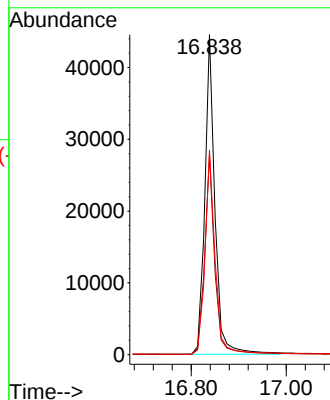
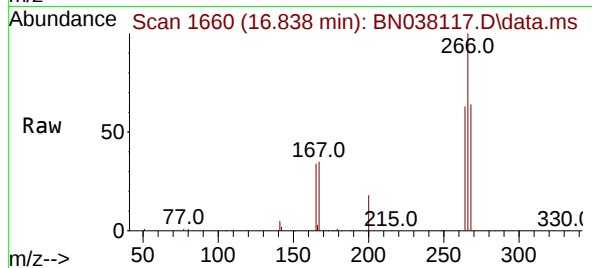
Tgt Ion:266 Resp: 66071

Ion Ratio Lower Upper

266 100

264 62.7 49.3 73.9

268 64.1 50.6 75.8



#25

Phenanthrene

Concen: 5.110 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

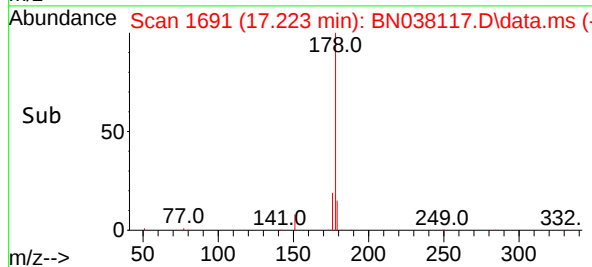
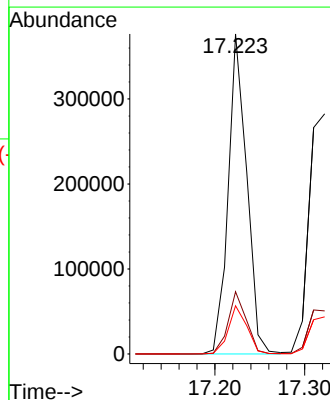
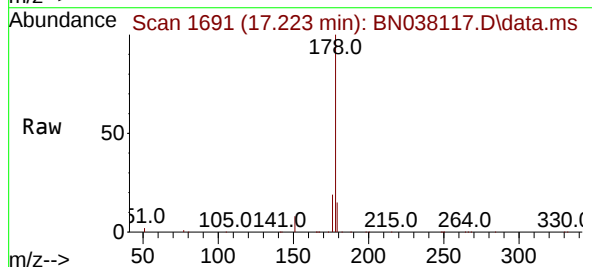
Tgt Ion:178 Resp: 539294

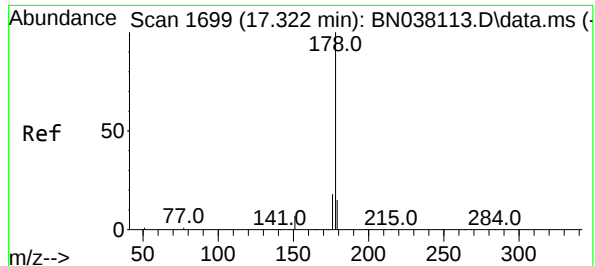
Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.1 12.2 18.4

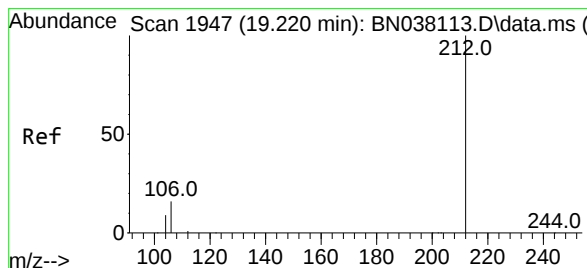
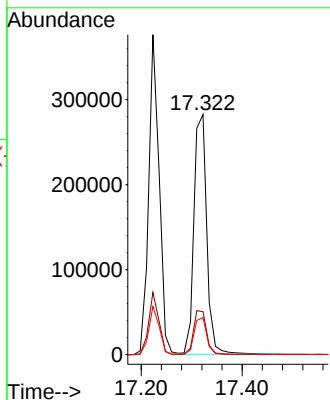
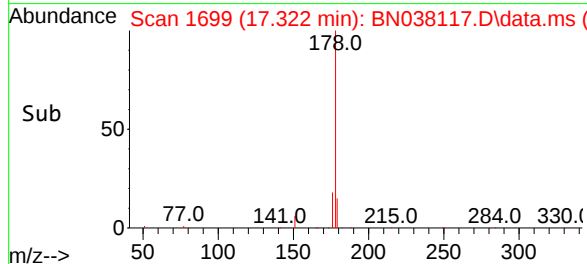
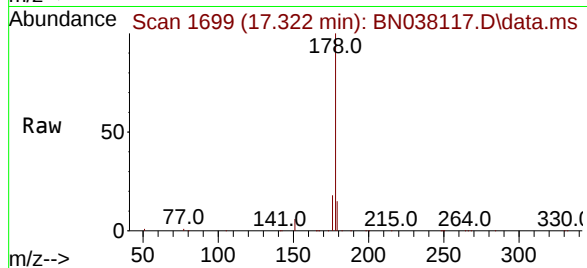




#26
Anthracene
Concen: 5.411 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

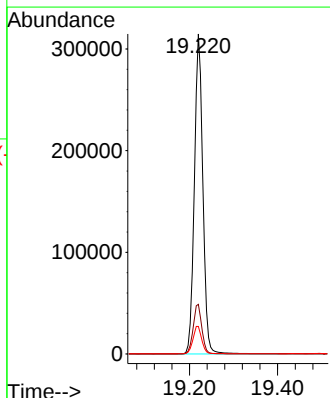
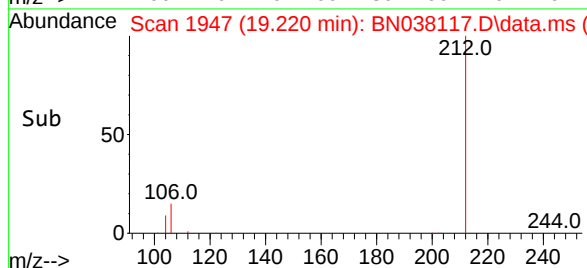
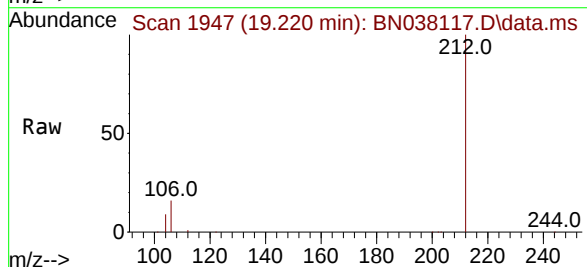
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

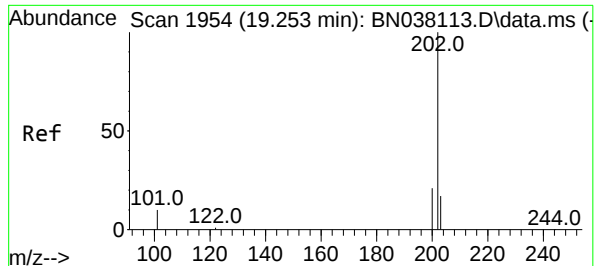
Tgt Ion:178 Resp: 499584
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.3 11.8 17.8



#27
Fluoranthene-d10
Concen: 5.003 ng
RT: 19.220 min Scan# 1947
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:212 Resp: 419371
Ion Ratio Lower Upper
212 100
106 15.8 12.6 19.0
104 8.9 7.1 10.7

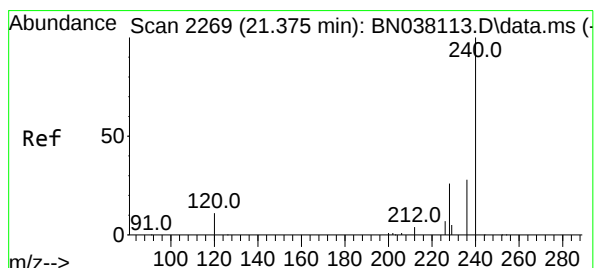
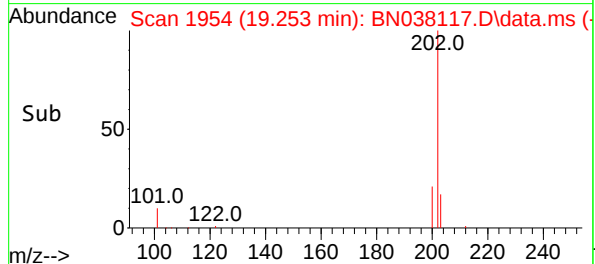
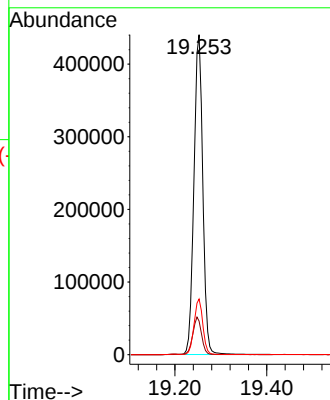
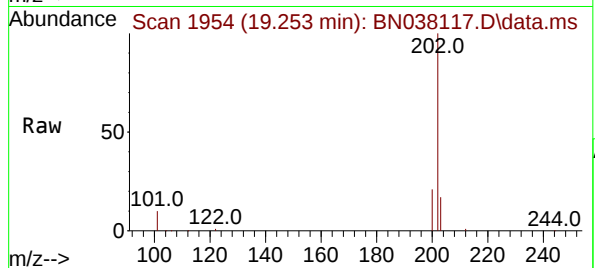




#28
Fluoranthene
Concen: 4.984 ng
RT: 19.253 min Scan# 1954
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

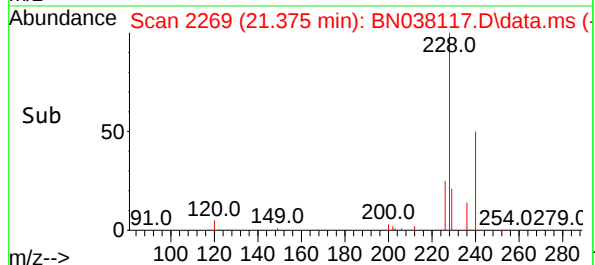
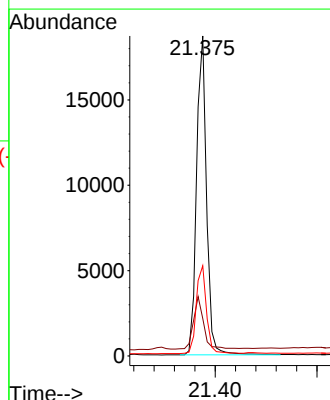
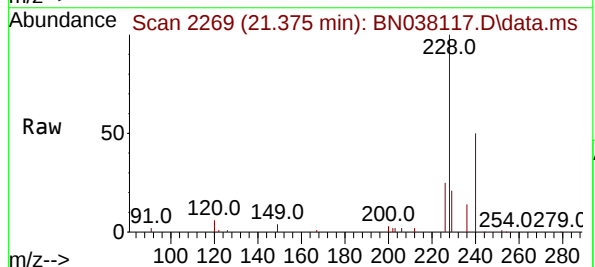
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

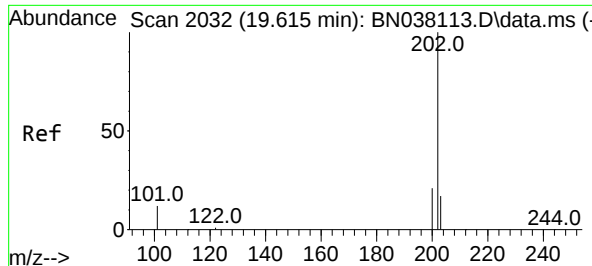
Tgt Ion:202 Resp: 587710
Ion Ratio Lower Upper
202 100
101 11.7 9.4 14.2
203 17.3 13.4 20.2



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:240 Resp: 25416
Ion Ratio Lower Upper
240 100
120 11.7 10.7 16.1
236 28.2 23.1 34.7

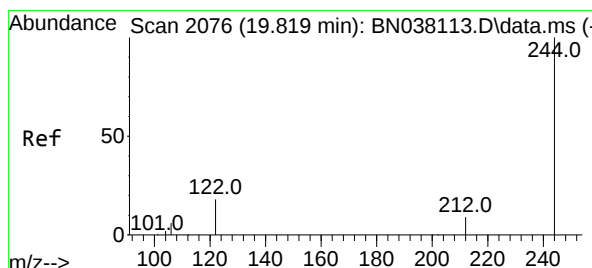
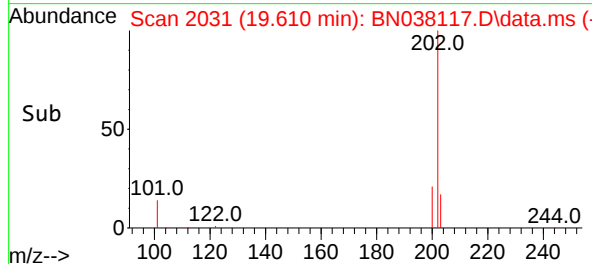
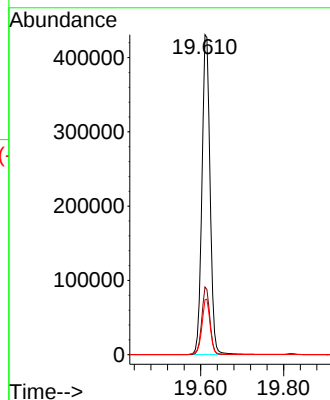
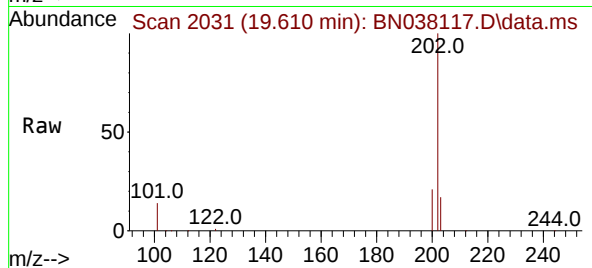




#30
Pyrene
Concen: 5.112 ng
RT: 19.610 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

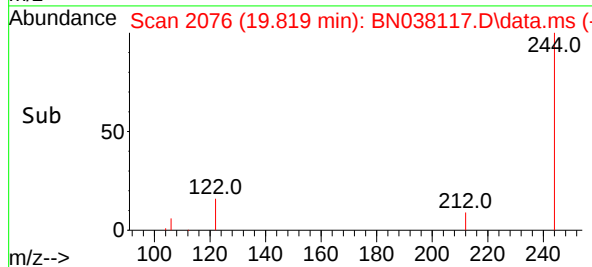
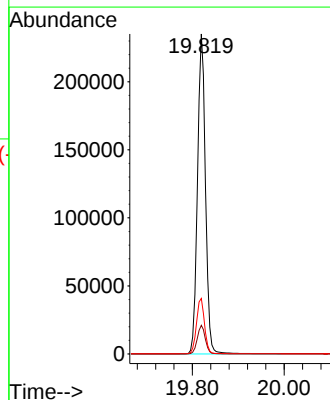
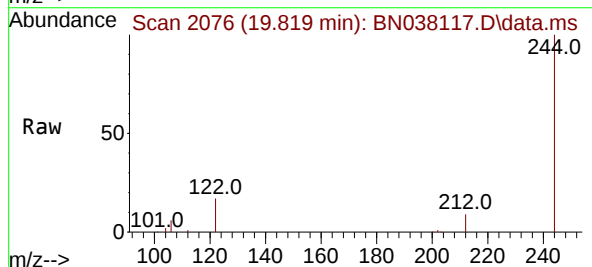
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

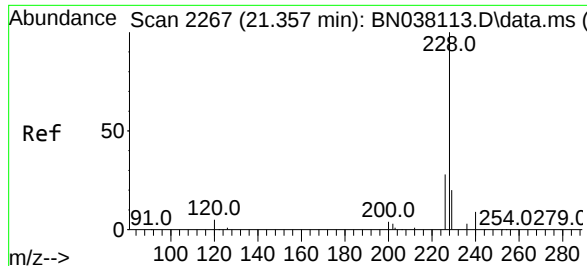
Tgt Ion:202 Resp: 586526
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.8 14.2 21.2



#31
Terphenyl-d14
Concen: 5.127 ng
RT: 19.819 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:244 Resp: 283126
Ion Ratio Lower Upper
244 100
212 8.9 7.8 11.6
122 17.3 15.2 22.8





#32

Benzo(a)anthracene

Concen: 5.100 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

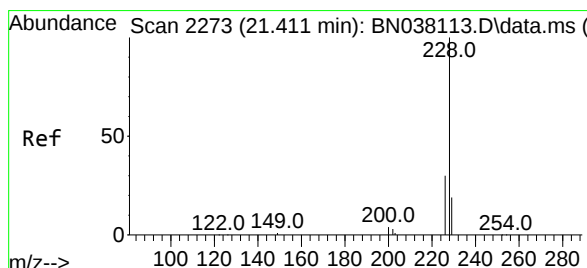
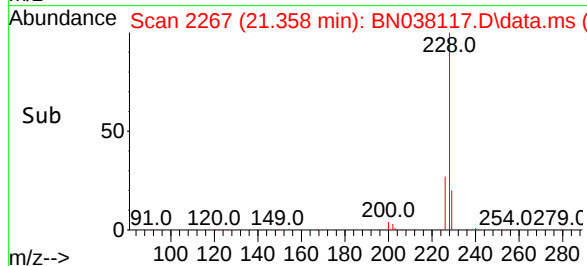
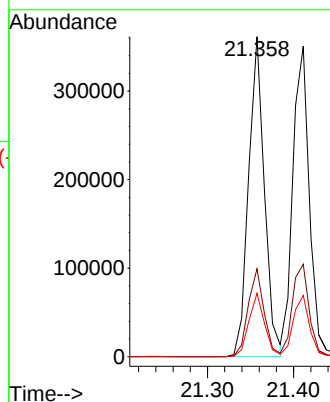
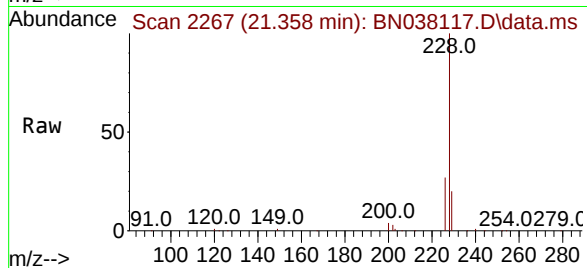
Tgt Ion:228 Resp: 462496

Ion Ratio Lower Upper

228 100

226 27.4 22.2 33.4

229 19.8 15.8 23.8



#33

Chrysene

Concen: 4.811 ng

RT: 21.411 min Scan# 2273

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

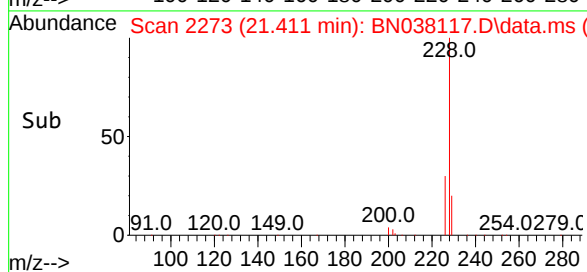
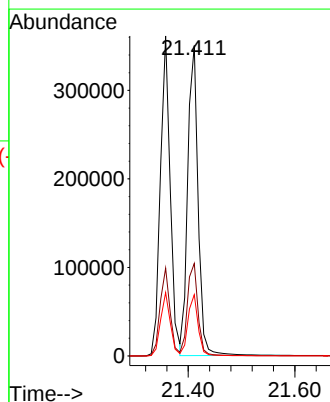
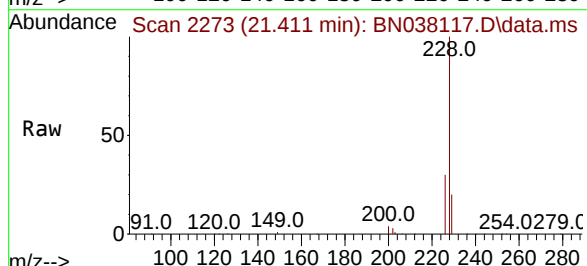
Tgt Ion:228 Resp: 473389

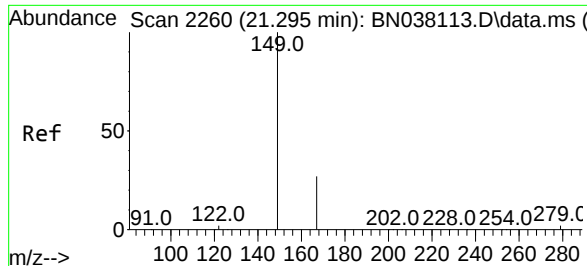
Ion Ratio Lower Upper

228 100

226 29.8 24.3 36.5

229 19.8 15.7 23.5

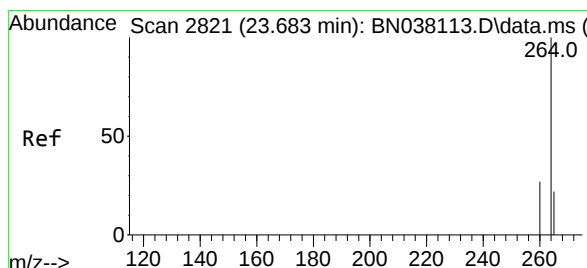
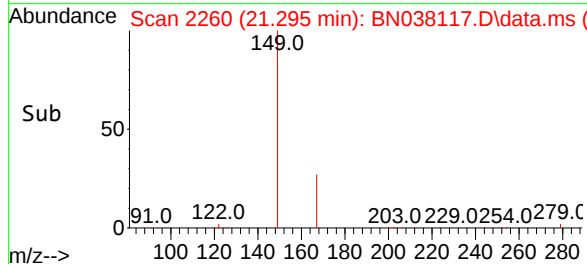
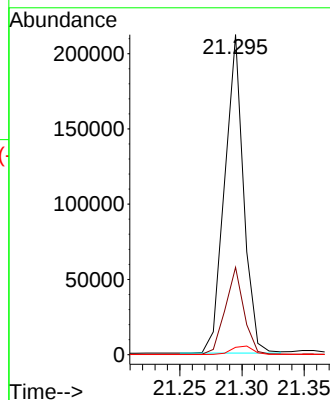
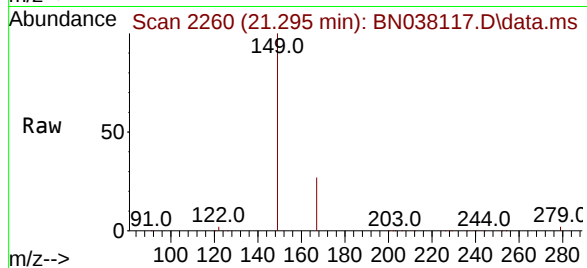




#34
Bis(2-ethylhexyl)phthalate
Concen: 4.679 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

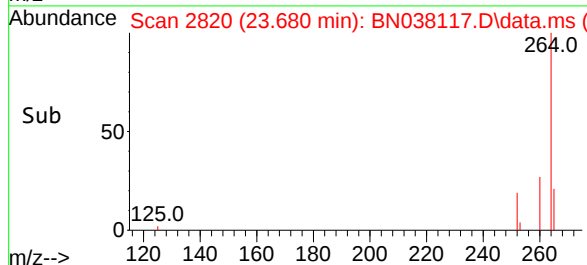
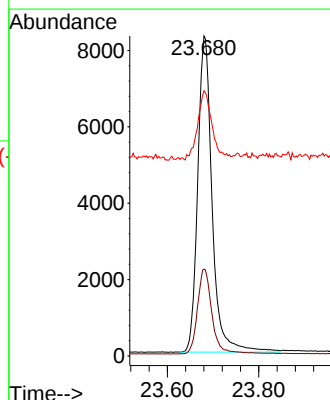
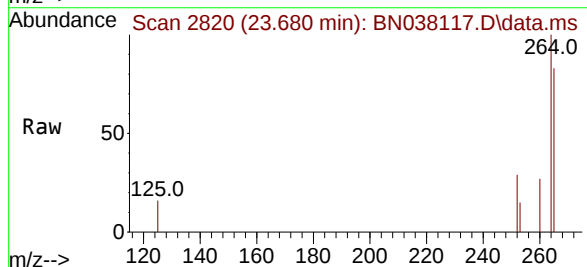
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

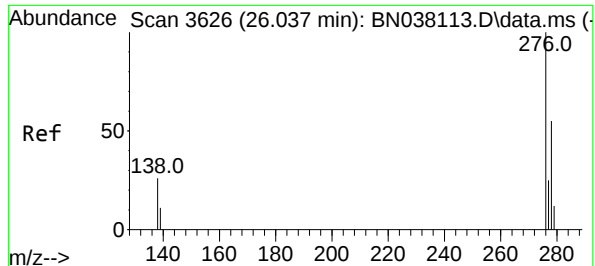
Tgt Ion:149 Resp: 223481
Ion Ratio Lower Upper
149 100
167 27.0 21.1 31.7
279 3.1 2.9 4.3



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.680 min Scan# 2820
Delta R.T. 0.000 min
Lab File: BN038117.D
Acq: 28 Oct 2025 16:38

Tgt Ion:264 Resp: 18172
Ion Ratio Lower Upper
264 100
260 27.2 21.8 32.8
265 82.9 68.6 102.8





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.409 ng

RT: 26.034 min Scan# 3626

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

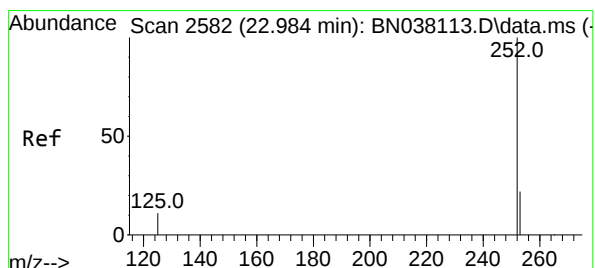
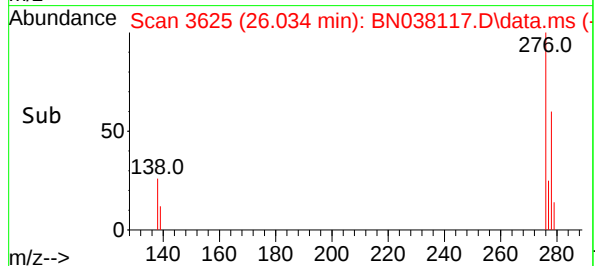
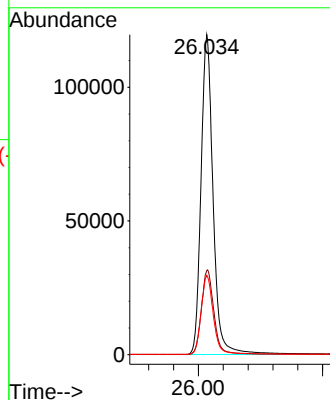
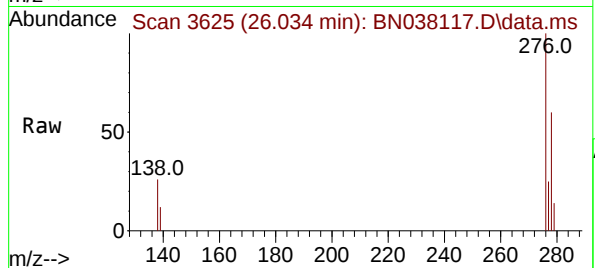
Tgt Ion:276 Resp: 403825

Ion Ratio Lower Upper

276 100

138 27.3 21.4 32.0

277 24.9 19.2 28.8



#37

Benzo(b)fluoranthene

Concen: 5.326 ng

RT: 22.981 min Scan# 2581

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

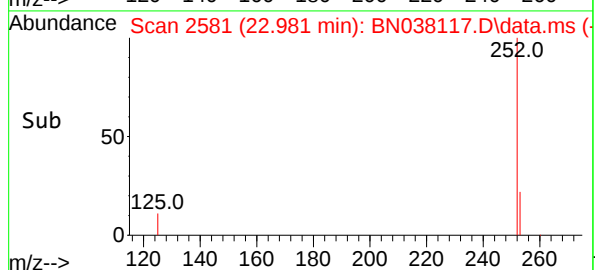
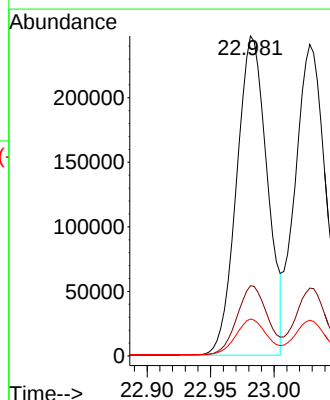
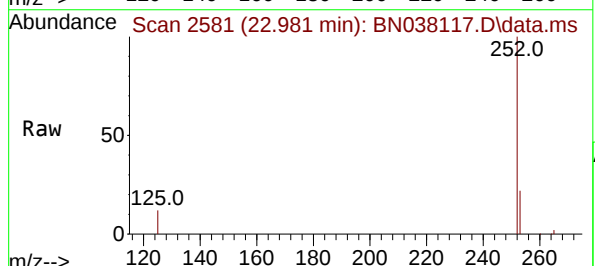
Tgt Ion:252 Resp: 413811

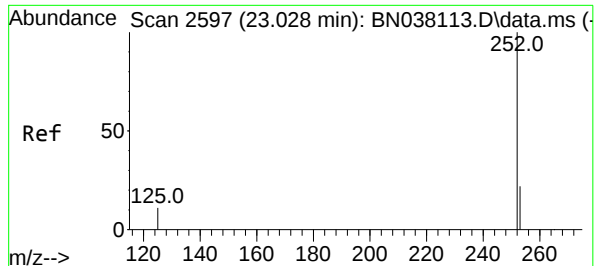
Ion Ratio Lower Upper

252 100

253 22.0 20.9 31.3

125 11.5 14.1 21.1#





#38

Benzo(k)fluoranthene

Concen: 5.387 ng

RT: 23.028 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

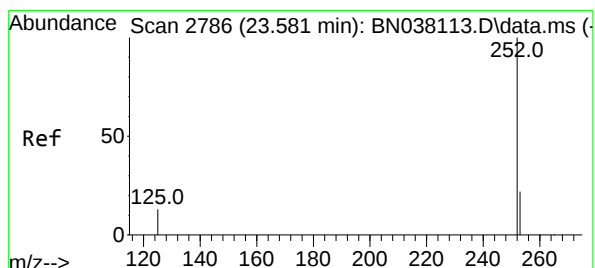
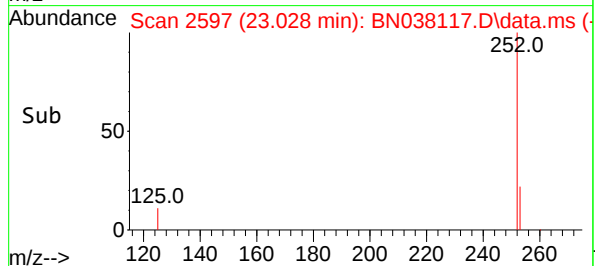
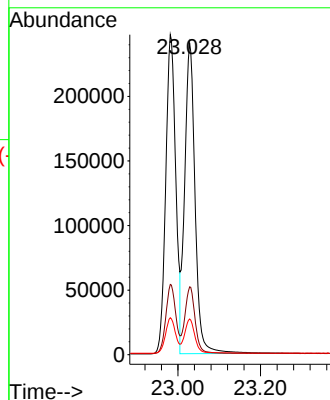
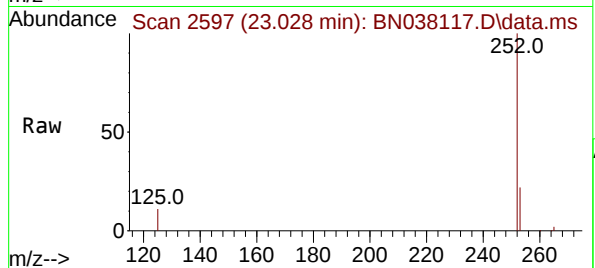
Tgt Ion:252 Resp: 421255

Ion Ratio Lower Upper

252 100

253 21.8 21.2 31.8

125 11.4 14.6 22.0#



#39

Benzo(a)pyrene

Concen: 5.340 ng

RT: 23.578 min Scan# 2785

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

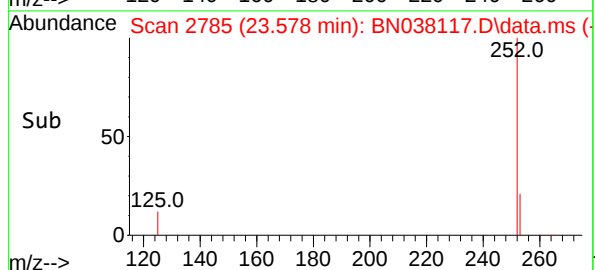
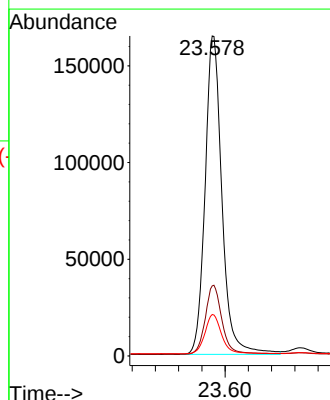
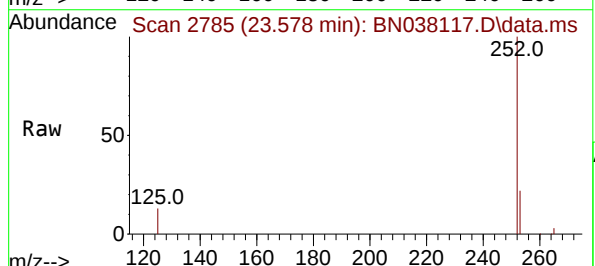
Tgt Ion:252 Resp: 332107

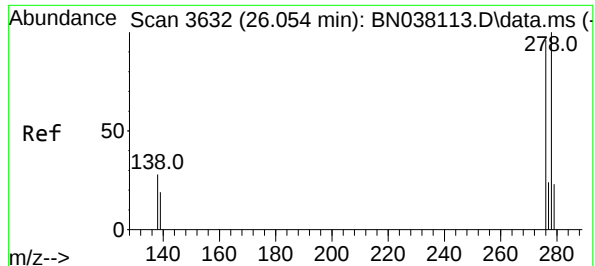
Ion Ratio Lower Upper

252 100

253 21.9 23.1 34.7#

125 12.9 18.6 28.0#





#40

Dibenzo(a,h)anthracene

Concen: 5.545 ng

RT: 26.048 min Scan# 3

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

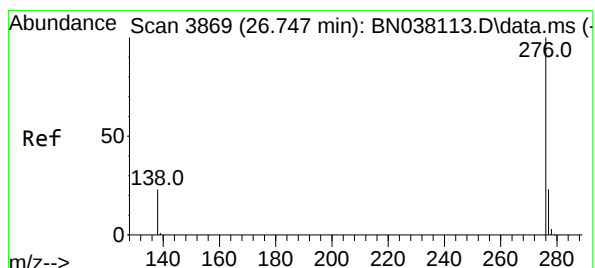
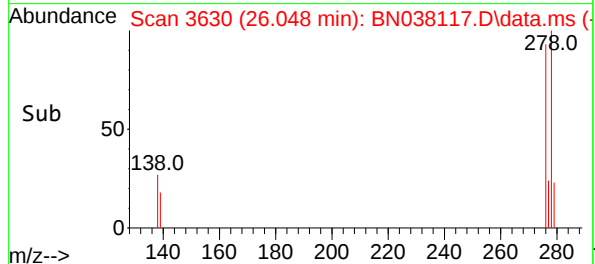
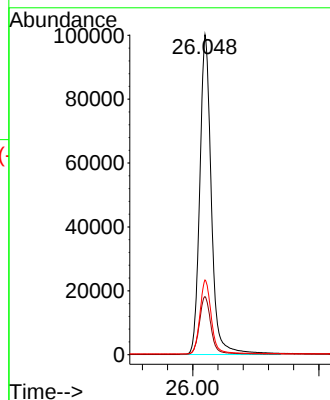
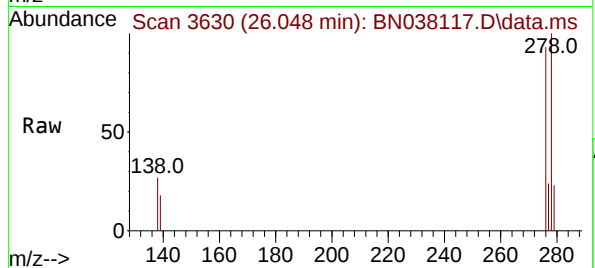
Tgt Ion:278 Resp: 318538

Ion Ratio Lower Upper

278 100

139 18.2 17.6 26.4

279 23.3 22.6 33.8



#41

Benzo(g,h,i)perylene

Concen: 5.223 ng

RT: 26.750 min Scan# 3870

Delta R.T. 0.000 min

Lab File: BN038117.D

Acq: 28 Oct 2025 16:38

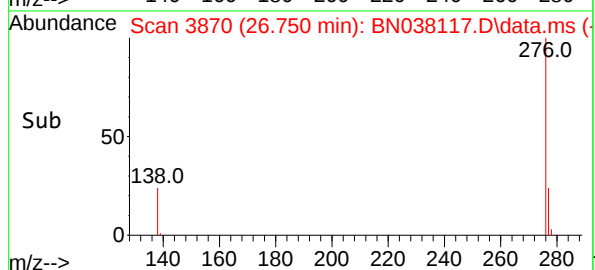
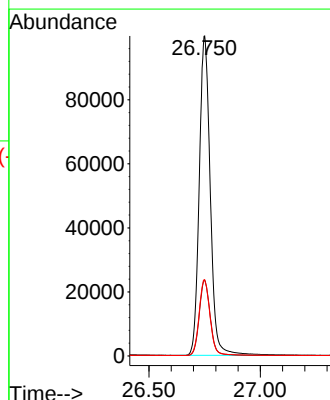
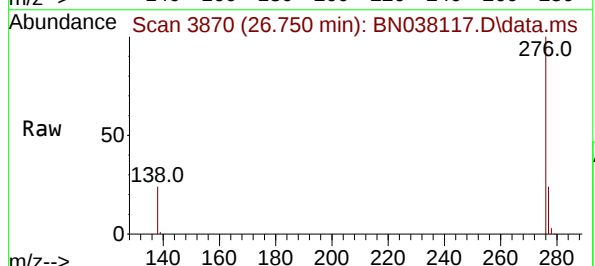
Tgt Ion:276 Resp: 342713

Ion Ratio Lower Upper

276 100

277 23.6 19.7 29.5

138 23.9 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038118.D
 Acq On : 28 Oct 2025 17:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN102825

Quant Time: Oct 29 17:07:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration

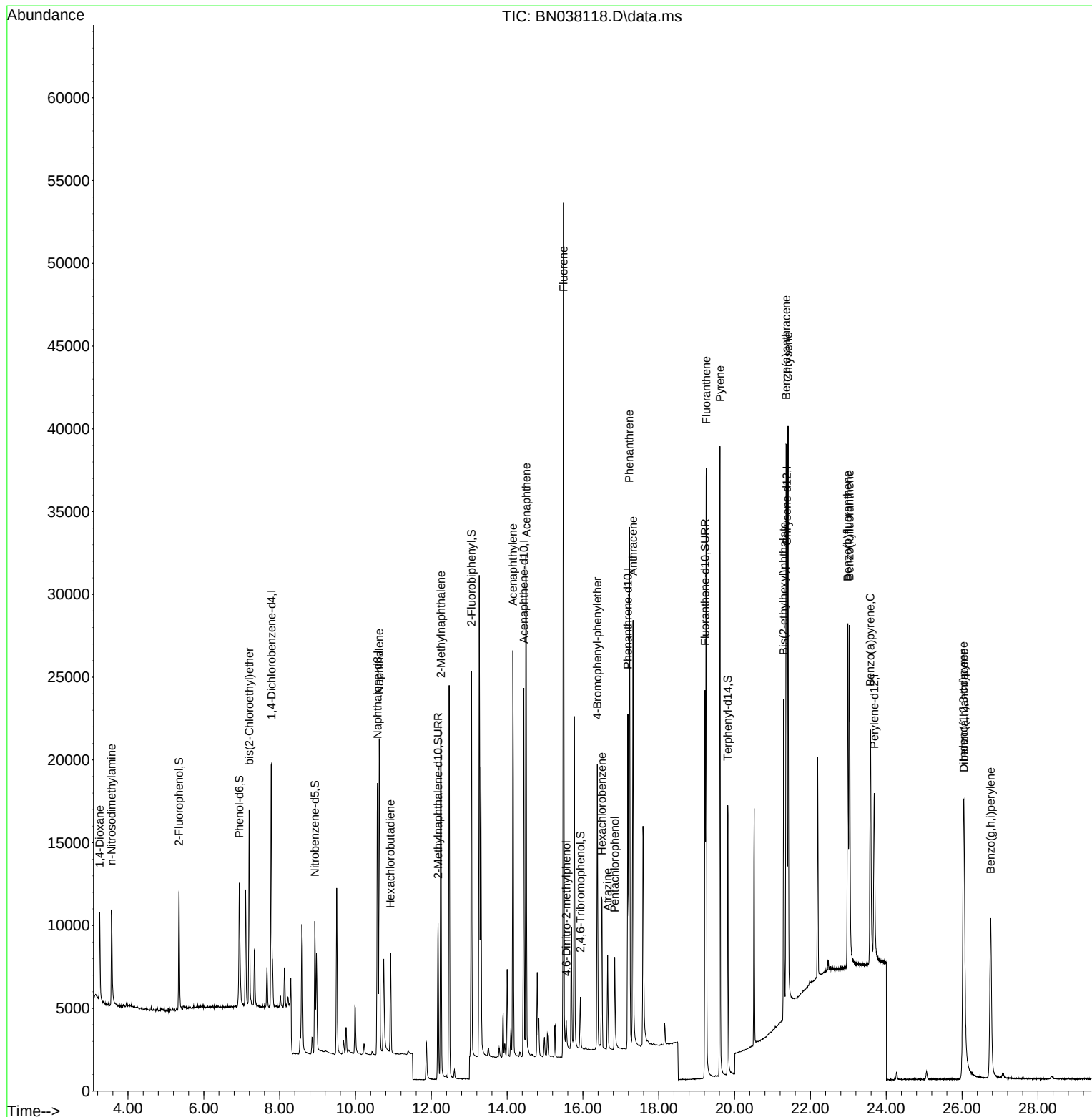
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.782	152	7698	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	23240	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	13297	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	26273	0.400	ng	0.00
29) Chrysene-d12	21.375	240	18729	0.400	ng	0.00
35) Perylene-d12	23.683	264	15660	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	6665	0.368	ng	0.00
5) Phenol-d6	6.937	99	7743	0.351	ng	0.00
8) Nitrobenzene-d5	8.929	82	6617	0.353	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	13607	0.410	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	1861	0.340	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	21897	0.411	ng	0.01
27) Fluoranthene-d10	19.220	212	25766	0.389	ng	0.00
31) Terphenyl-d14	19.819	244	17430	0.428	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.254	88	3503	0.440	ng	98
3) n-Nitrosodimethylamine	3.564	42	4071	0.398	ng	# 96
6) bis(2-Chloroethyl)ether	7.197	93	9255	0.427	ng	100
9) Naphthalene	10.626	128	26051	0.407	ng	99
10) Hexachlorobutadiene	10.925	225	4702	0.435	ng	# 98
12) 2-Methylnaphthalene	12.253	142	16372	0.384	ng	98
16) Acenaphthylene	14.152	152	27388	0.455	ng	100
17) Acenaphthene	14.505	154	16777	0.398	ng	99
18) Fluorene	15.489	166	22859	0.414	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	1138	0.411	ng	90
21) 4-Bromophenyl-phenylether	16.379	248	6886	0.400	ng	99
22) Hexachlorobenzene	16.503	284	8349	0.426	ng	98
23) Atrazine	16.652	200	4672	0.370	ng	99
24) Pentachlorophenol	16.838	266	2963	0.351	ng	97
25) Phenanthrene	17.223	178	33992	0.408	ng	99
26) Anthracene	17.322	178	29654	0.406	ng	99
28) Fluoranthene	19.253	202	35401	0.380	ng	99
30) Pyrene	19.615	202	35647	0.422	ng	100
32) Benzo(a)anthracene	21.358	228	26833	0.402	ng	100
33) Chrysene	21.411	228	31031	0.428	ng	100
34) Bis(2-ethylhexyl)phtha...	21.295	149	12587	0.358	ng	99
36) Indeno(1,2,3-cd)pyrene	26.037	276	26115	0.406	ng	98
37) Benzo(b)fluoranthene	22.984	252	27124	0.405	ng	97
38) Benzo(k)fluoranthene	23.031	252	29583	0.439	ng	98
39) Benzo(a)pyrene	23.581	252	23400	0.437	ng	# 95
40) Dibenzo(a,h)anthracene	26.051	278	19931	0.403	ng	97
41) Benzo(g,h,i)perylene	26.756	276	22180	0.392	ng	98

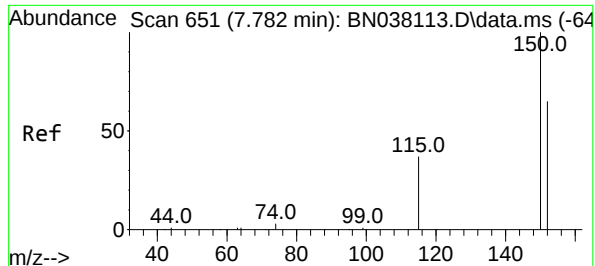
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038118.D
Acq On : 28 Oct 2025 17:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN102825

Quant Time: Oct 29 17:07:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration

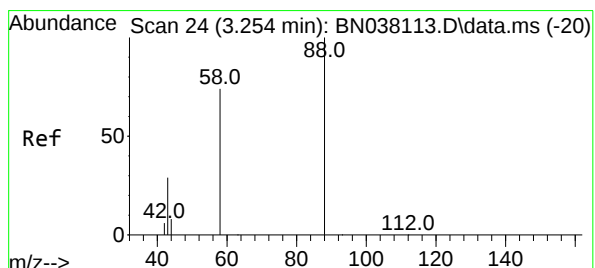
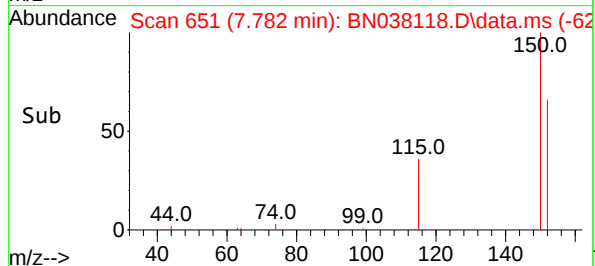
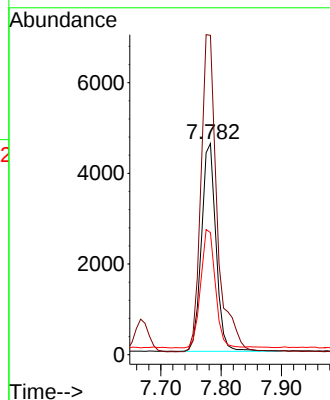
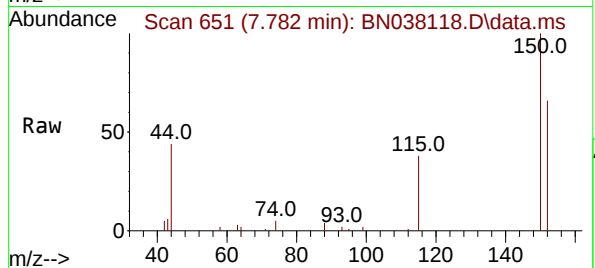




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.782 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

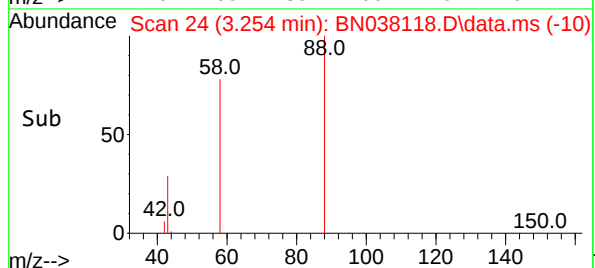
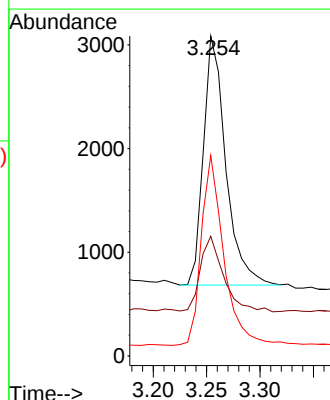
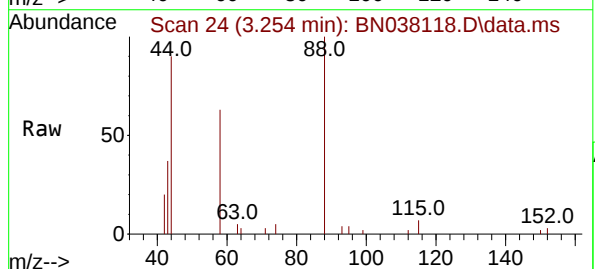
Instrument :
BNA_N
ClientSampleId :
ICVBN102825

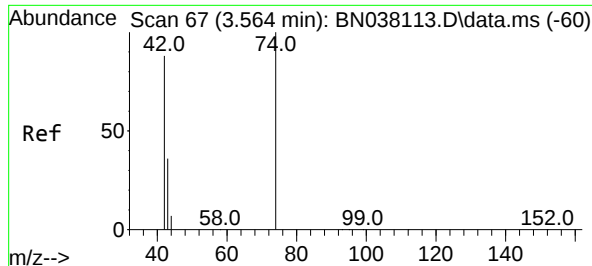
Tgt Ion:152 Resp: 7698
Ion Ratio Lower Upper
152 100
150 151.3 122.3 183.5
115 57.8 47.4 71.0



#2
1,4-Dioxane
Concen: 0.440 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion: 88 Resp: 3503
Ion Ratio Lower Upper
88 100
43 31.0 24.3 36.5
58 77.1 60.4 90.6

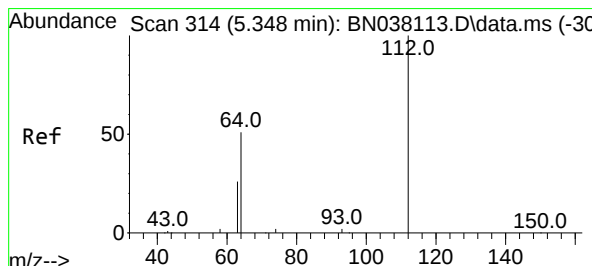
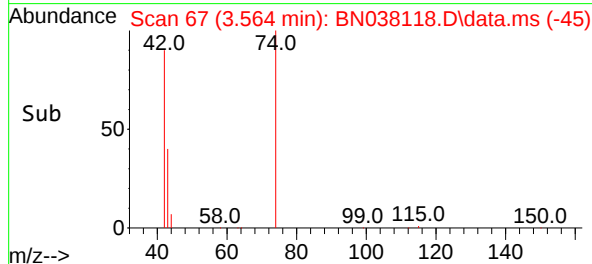
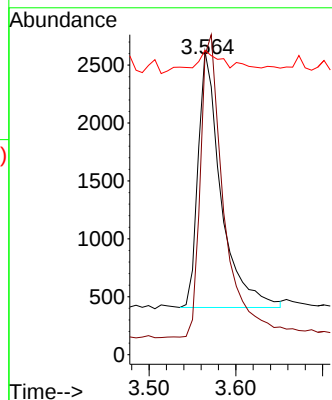
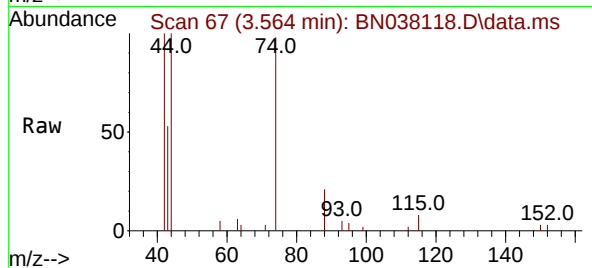




#3
n-Nitrosodimethylamine
Concen: 0.398 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

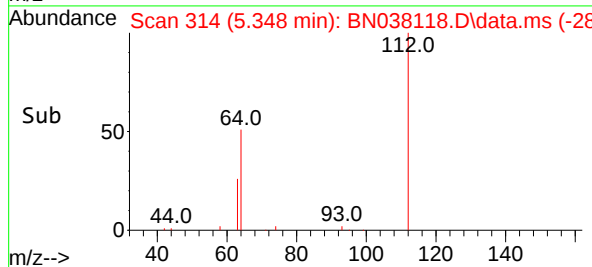
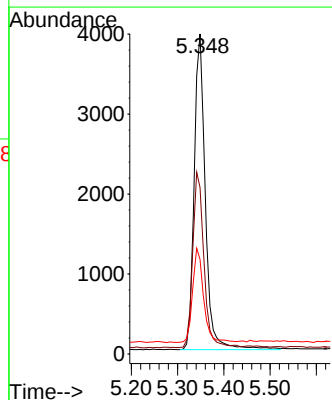
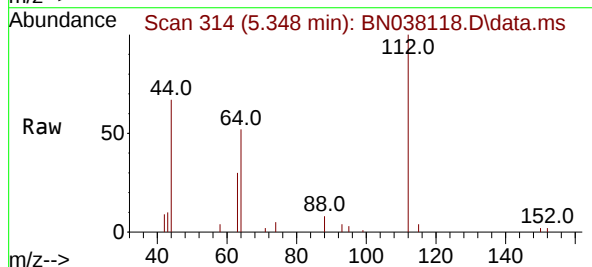
Instrument :
BNA_N
ClientSampleId :
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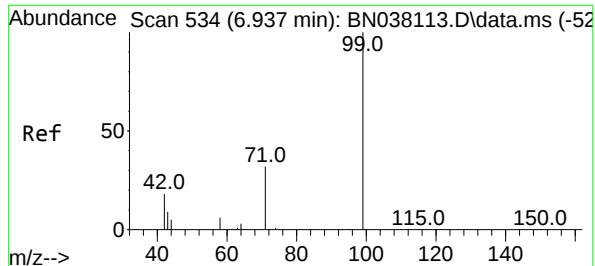
Tgt Ion: 42 Resp: 4071
Ion Ratio Lower Upper
42 100
74 124.8 96.8 145.2
44 10.5 5.3 7.9#



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion: 112 Resp: 6665
Ion Ratio Lower Upper
112 100
64 55.4 45.4 68.0
63 29.1 23.2 34.8

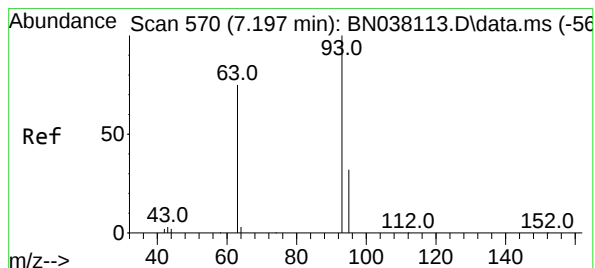
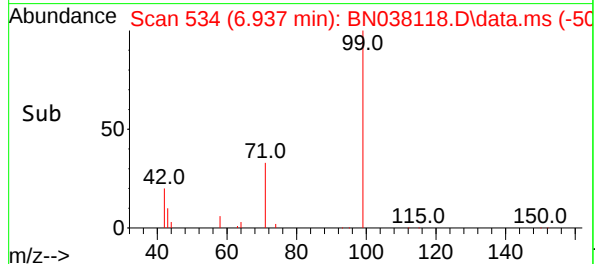
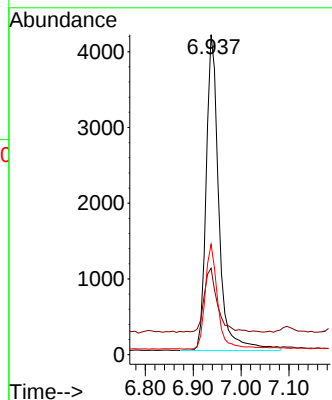
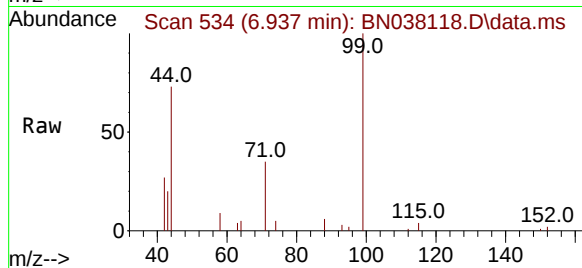




#5
Phenol-d6
Concen: 0.351 ng
RT: 6.937 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

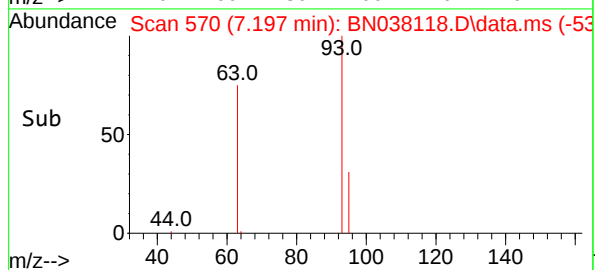
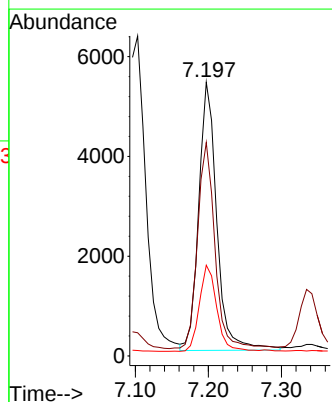
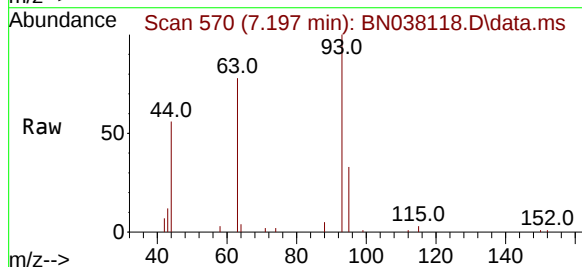
Instrument :
BNA_N
ClientSampleId :
ICVBN102825

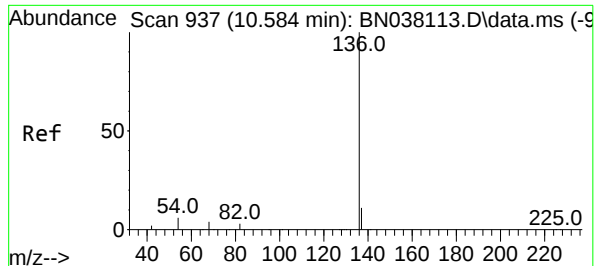
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.1	16.6	24.8
71	33.2	25.4	38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.427 ng
RT: 7.197 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion	Ratio	Lower	Upper
93	100		
63	73.9	59.3	88.9
95	30.9	25.2	37.8

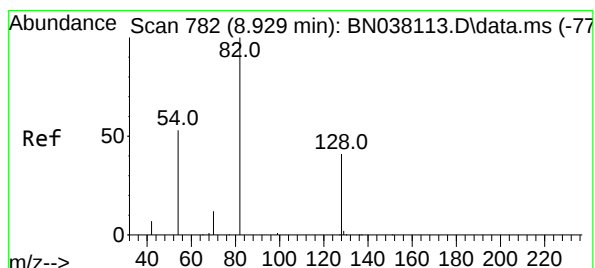
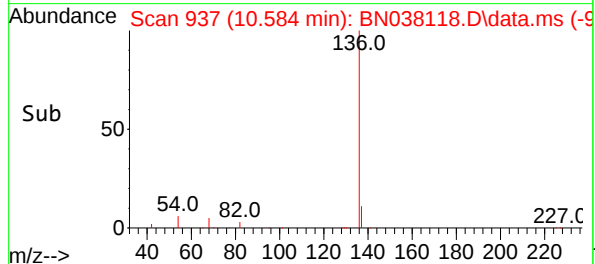
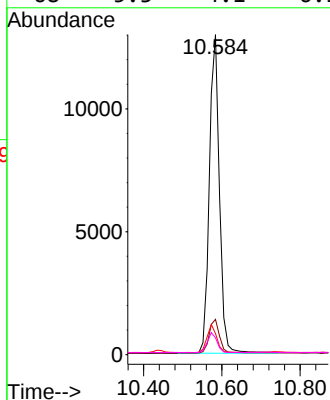
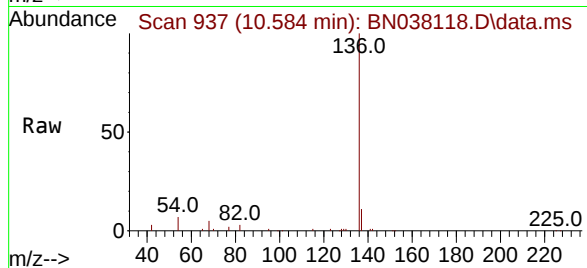




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

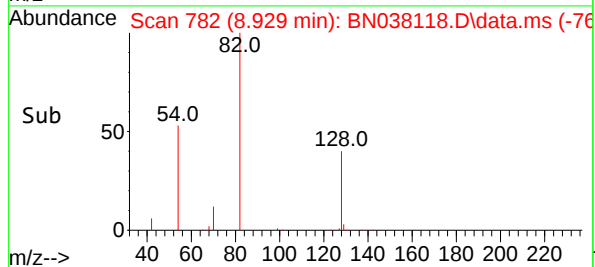
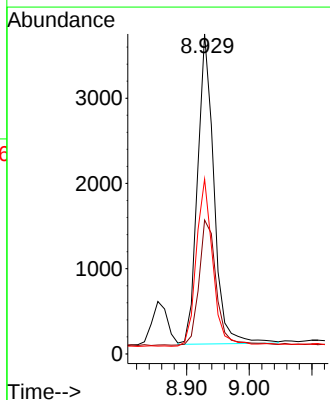
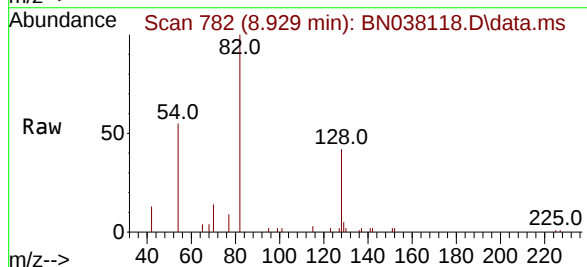
Instrument :
BNA_N
ClientSampleId :
ICVBN102825

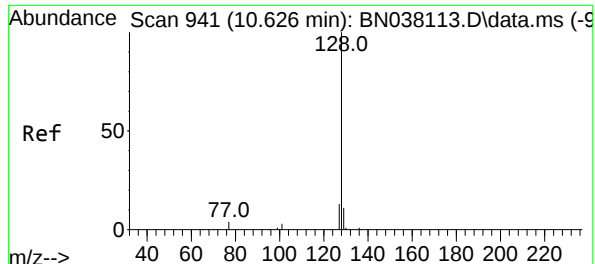
Tgt Ion:	136	Resp:	23240
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	6.6	5.2	7.8
68	5.3	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion:	82	Resp:	6617
Ion	Ratio	Lower	Upper
82	100		
128	41.8	34.1	51.1
54	54.7	43.5	65.3

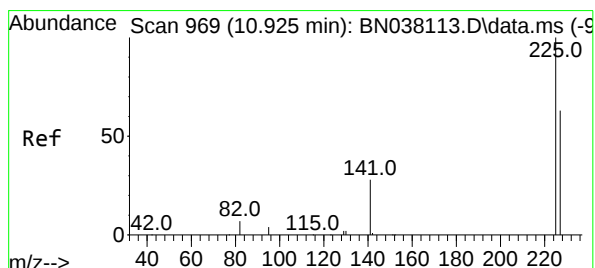
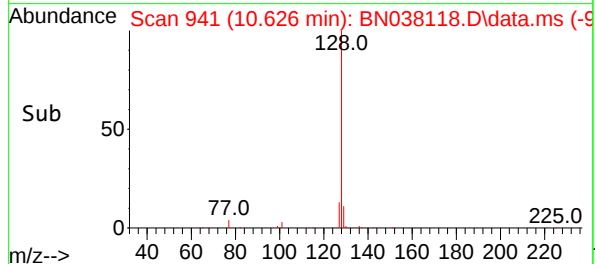
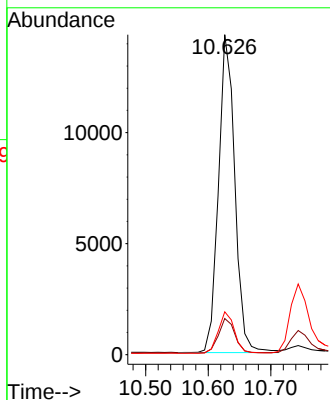
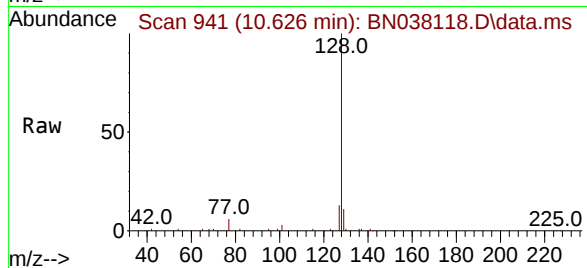




#9
Naphthalene
Concen: 0.407 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

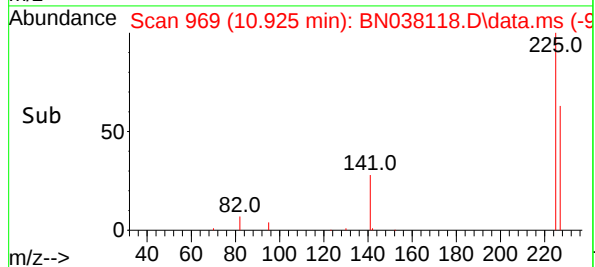
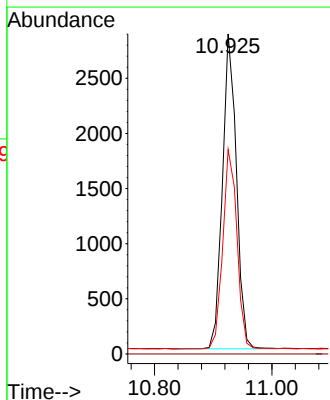
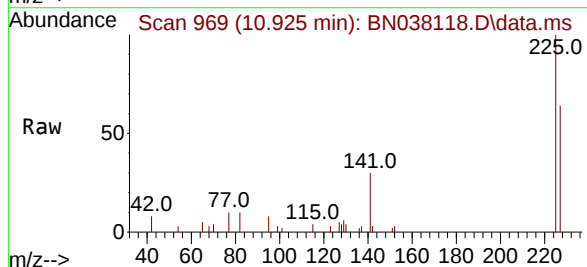
Instrument :
BNA_N
ClientSampleId :
ICVBN102825

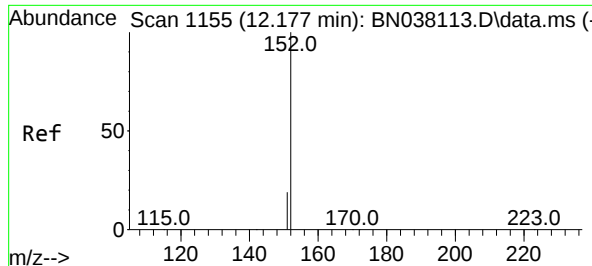
Tgt Ion:128 Resp: 26051
Ion Ratio Lower Upper
128 100
129 11.3 9.1 13.7
127 13.4 10.5 15.7



#10
Hexachlorobutadiene
Concen: 0.435 ng
RT: 10.925 min Scan# 969
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion:225 Resp: 4702
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 50.3 75.5

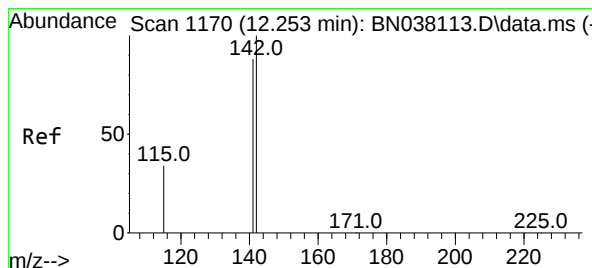
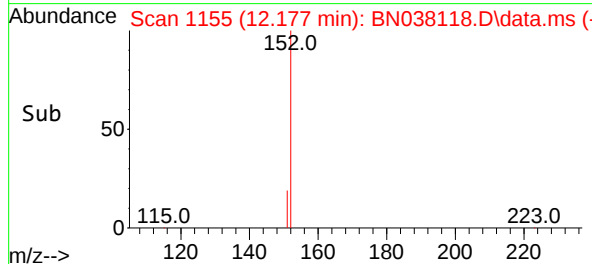
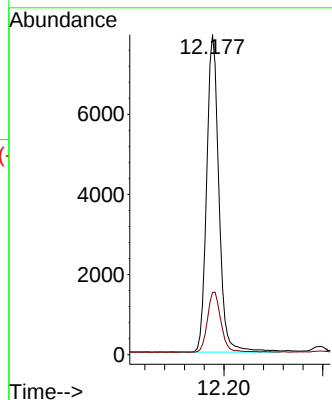
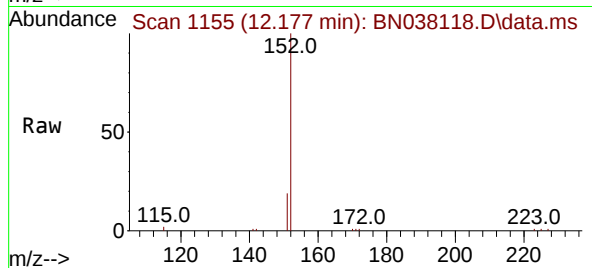




#11
2-Methylnaphthalene-d10
Concen: 0.410 ng
RT: 12.177 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

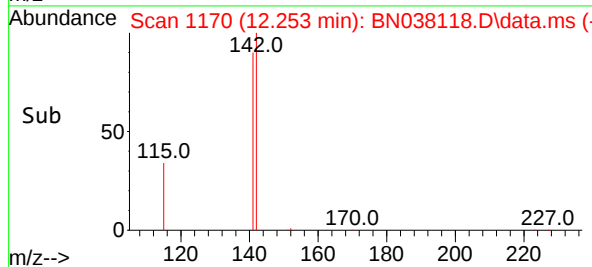
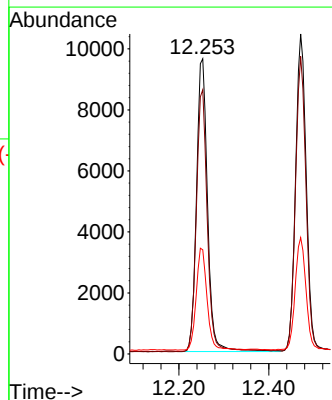
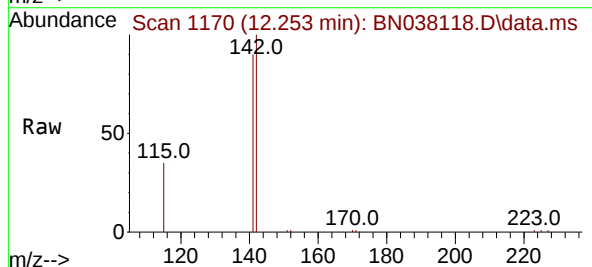
Instrument :
BNA_N
ClientSampleId :
ICVBN102825

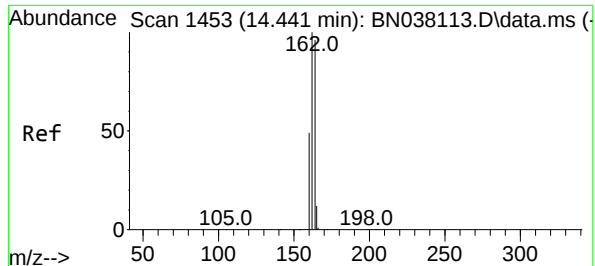
Tgt Ion:152 Resp: 13607
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.253 min Scan# 1170
Delta R.T. 0.005 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion:142 Resp: 16372
Ion Ratio Lower Upper
142 100
141 89.5 70.3 105.5
115 35.3 27.8 41.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.441 min Scan# 1453

Delta R.T. 0.011 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

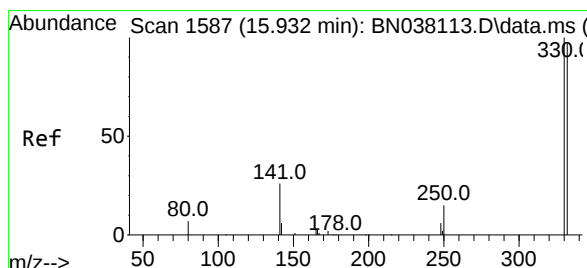
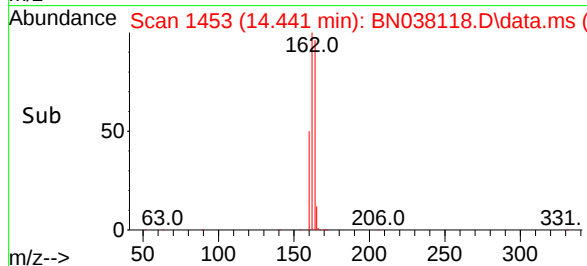
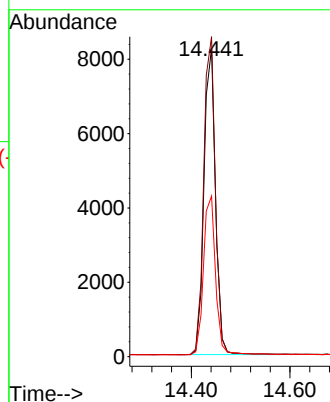
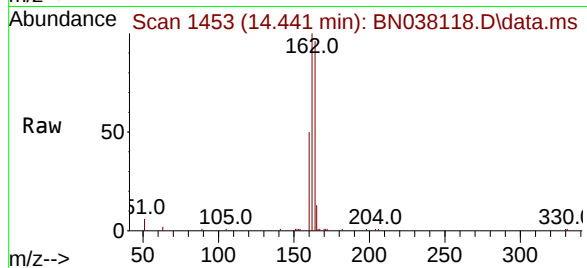
Tgt Ion:164 Resp: 13297

Ion Ratio Lower Upper

164 100

162 103.7 83.0 124.4

160 52.0 40.7 61.1



#14

2,4,6-Tribromophenol

Concen: 0.340 ng

RT: 15.932 min Scan# 1587

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

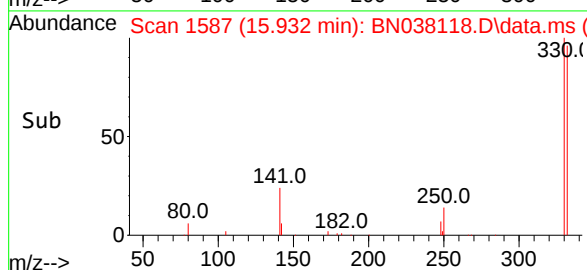
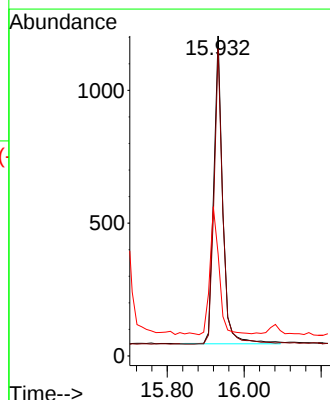
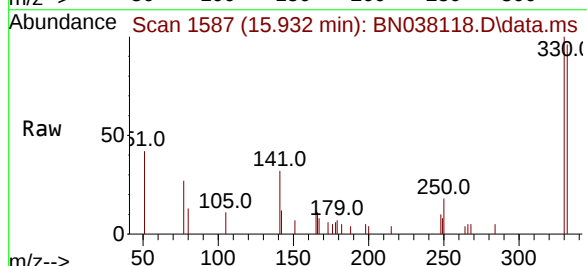
Tgt Ion:330 Resp: 1861

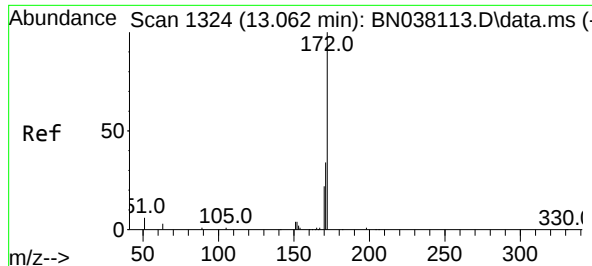
Ion Ratio Lower Upper

330 100

332 94.5 76.6 114.8

141 43.0 34.1 51.1





#15

2-Fluorobiphenyl

Concen: 0.411 ng

RT: 13.062 min Scan# 1324

Delta R.T. 0.011 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

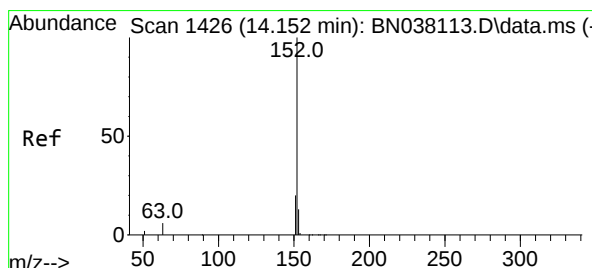
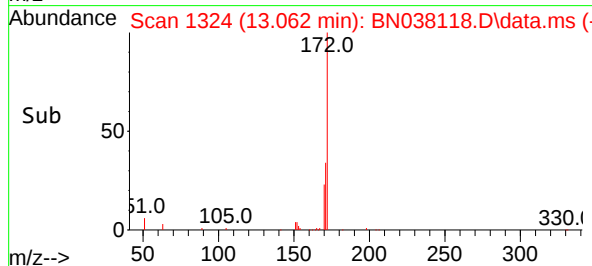
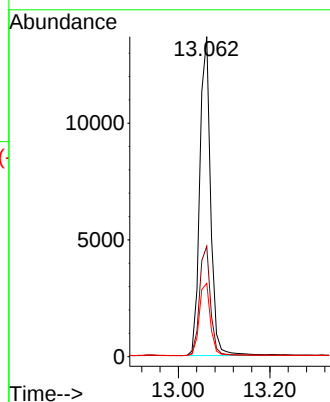
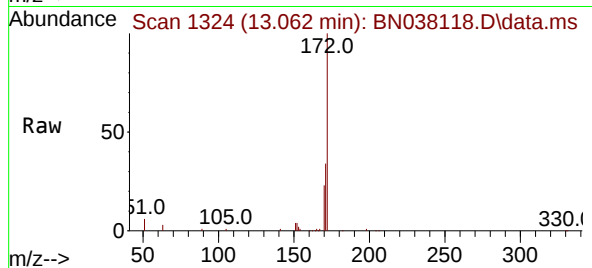
Tgt Ion:172 Resp: 21897

Ion Ratio Lower Upper

172 100

171 34.5 27.8 41.6

170 22.9 18.1 27.1



#16

Acenaphthylene

Concen: 0.455 ng

RT: 14.152 min Scan# 1426

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

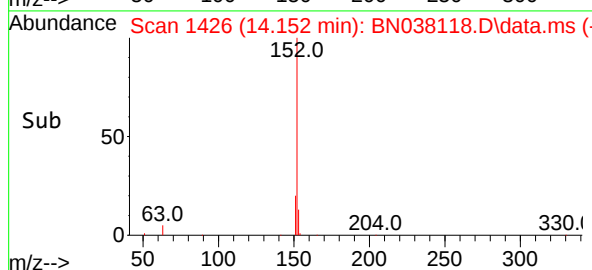
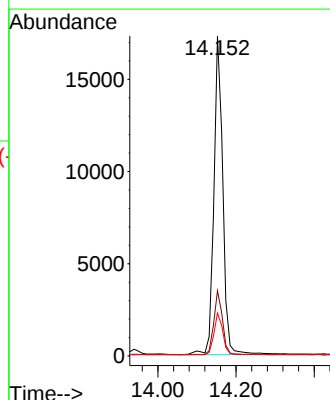
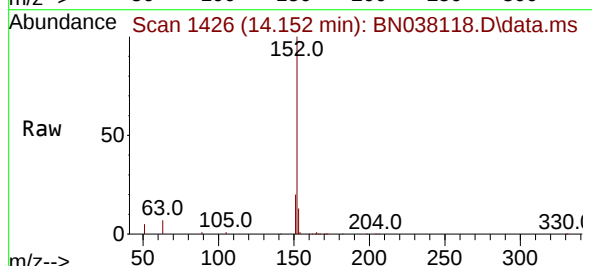
Tgt Ion:152 Resp: 27388

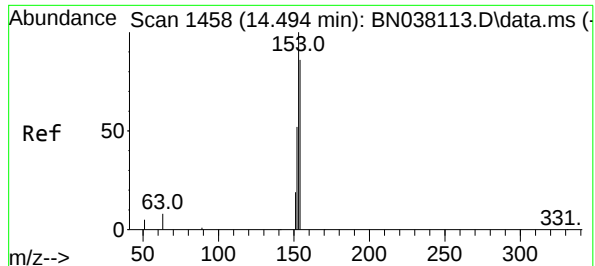
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.2 10.2 15.2

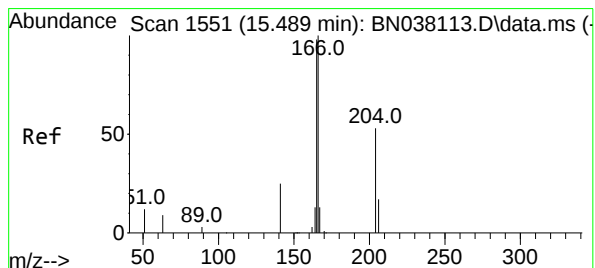
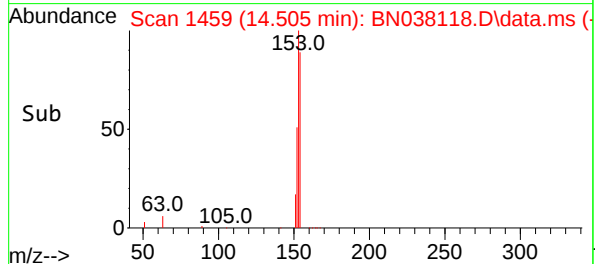
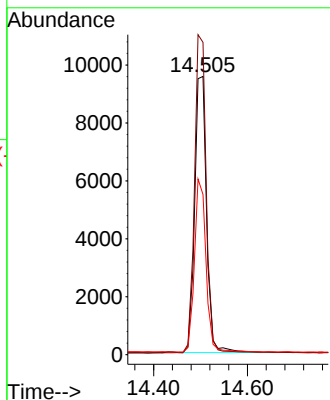
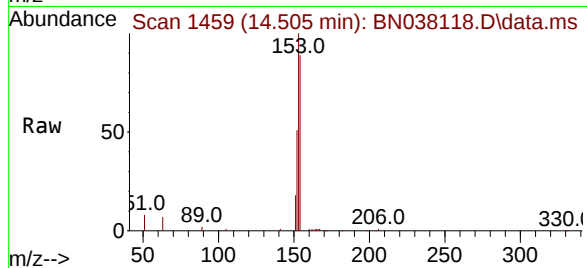




#17
Acenaphthene
Concen: 0.398 ng
RT: 14.505 min Scan# 1459
Delta R.T. 0.011 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

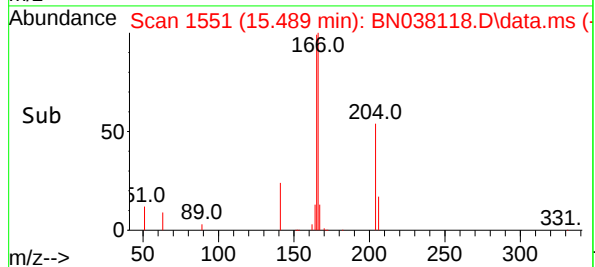
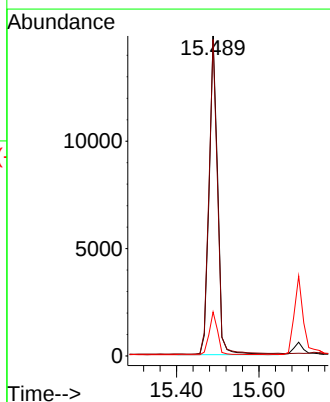
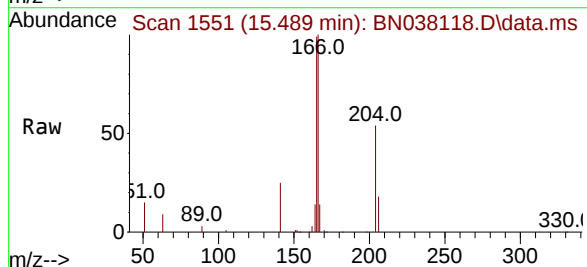
Instrument :
BNA_N
ClientSampleId :
ICVBN102825

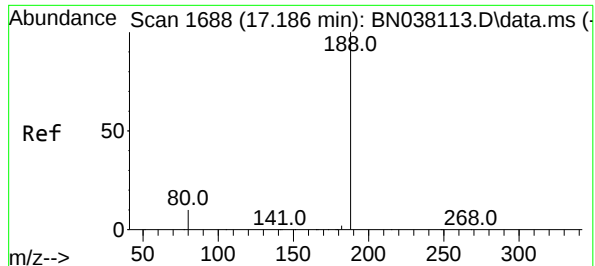
Tgt Ion:154 Resp: 16777
Ion Ratio Lower Upper
154 100
153 113.6 90.0 135.0
152 60.6 47.3 70.9



#18
Fluorene
Concen: 0.414 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion:166 Resp: 22859
Ion Ratio Lower Upper
166 100
165 99.9 79.0 118.4
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

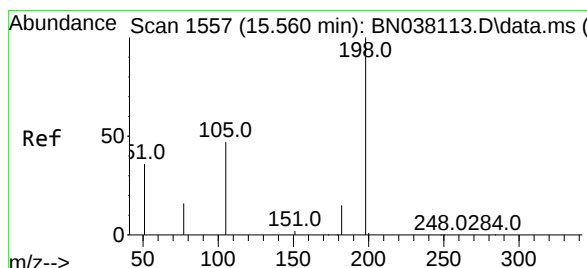
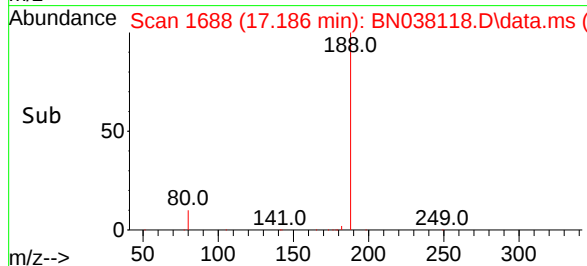
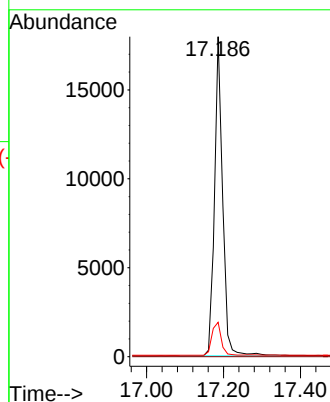
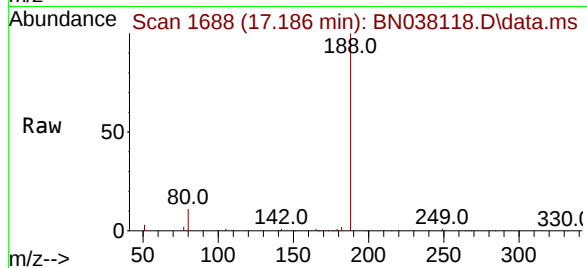
Tgt Ion:188 Resp: 26273

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.7 8.6 13.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.411 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

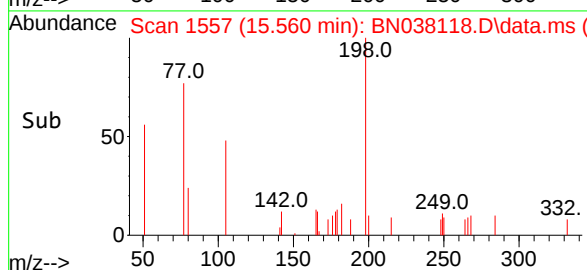
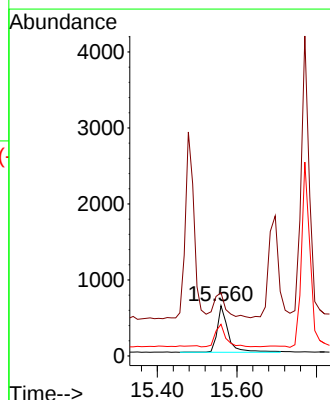
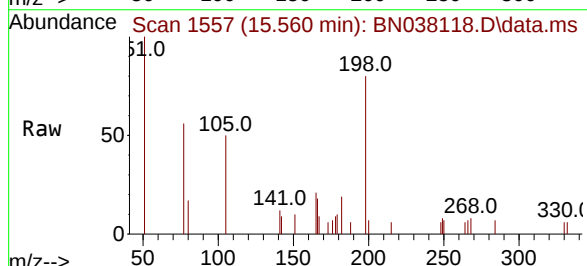
Tgt Ion:198 Resp: 1138

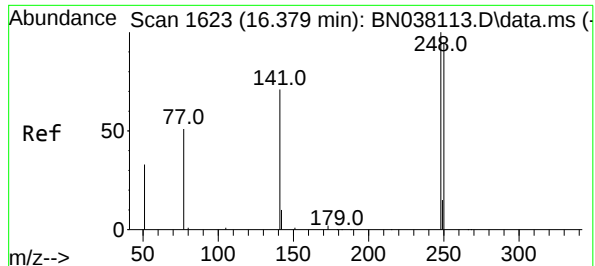
Ion Ratio Lower Upper

198 100

51 125.7 88.9 133.3

105 63.1 49.2 73.8

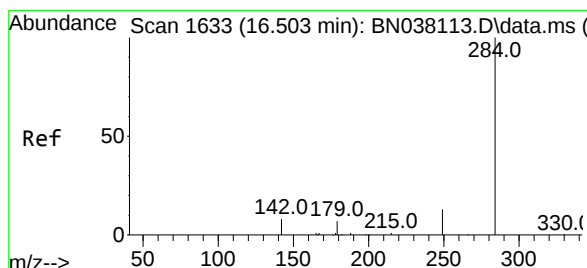
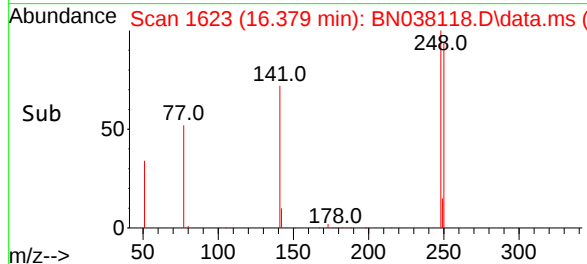
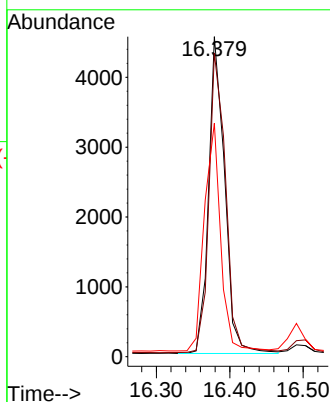
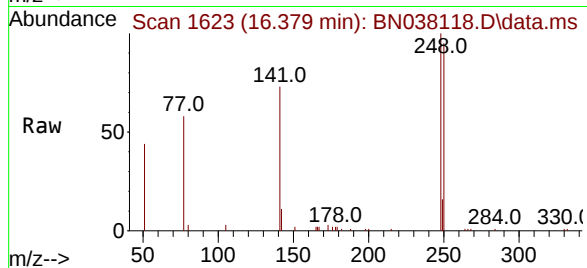




#21
4-Bromophenyl-phenylether
Concen: 0.400 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

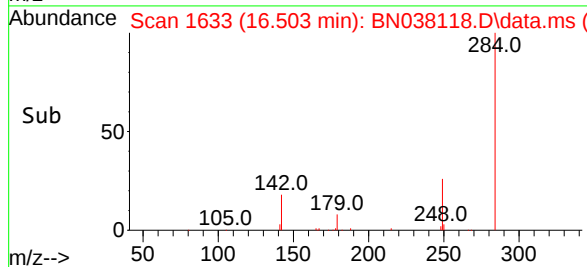
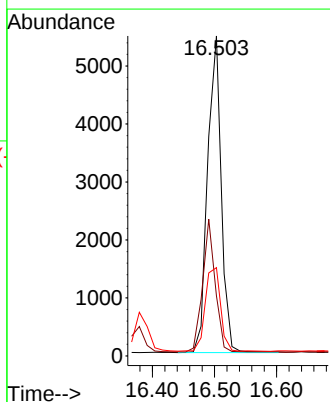
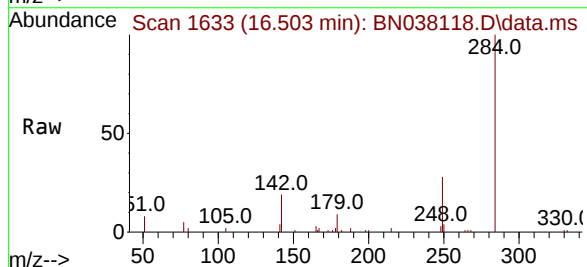
Instrument :
BNA_N
ClientSampleId :
ICVBN102825

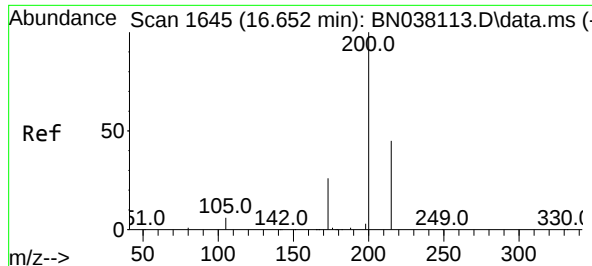
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.8	76.2	114.2
141	73.0	57.6	86.4



#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.5	45.7
249	30.0	23.5	35.3





#23

Atrazine

Concen: 0.370 ng

RT: 16.652 min Scan# 1645

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

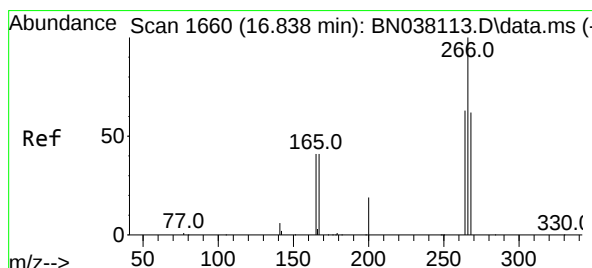
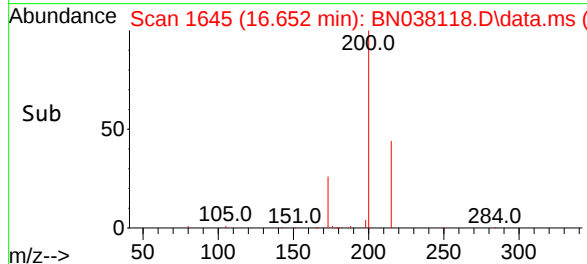
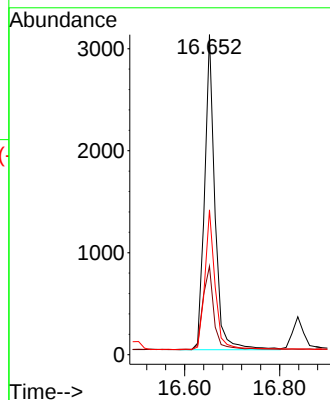
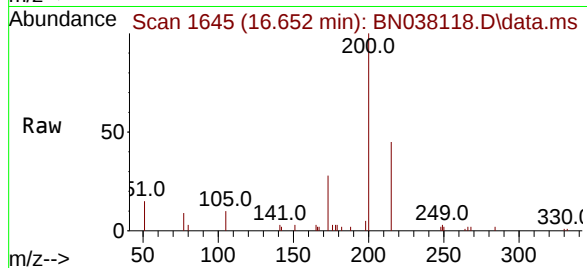
Tgt Ion:200 Resp: 4672

Ion Ratio Lower Upper

200 100

173 27.7 21.4 32.2

215 45.3 36.7 55.1



#24

Pentachlorophenol

Concen: 0.351 ng

RT: 16.838 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

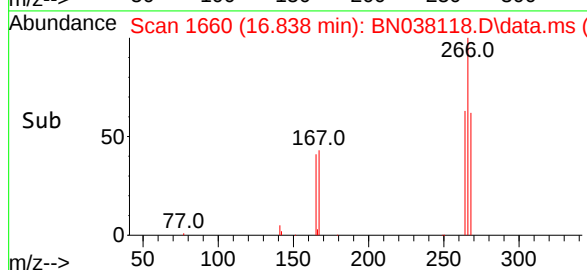
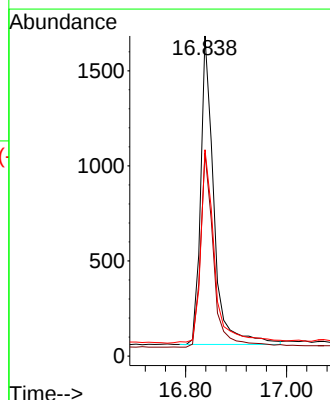
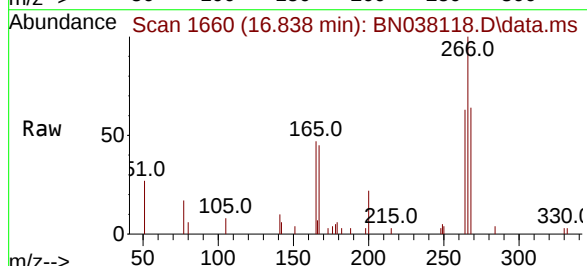
Tgt Ion:266 Resp: 2963

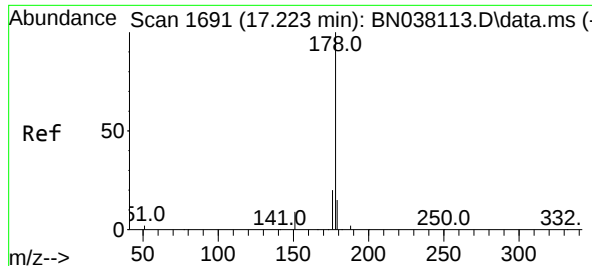
Ion Ratio Lower Upper

266 100

264 62.7 49.3 73.9

268 66.0 50.6 75.8





#25

Phenanthrene

Concen: 0.408 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

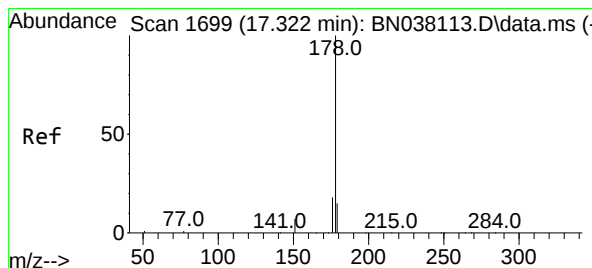
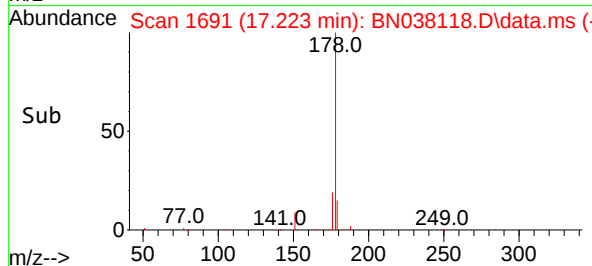
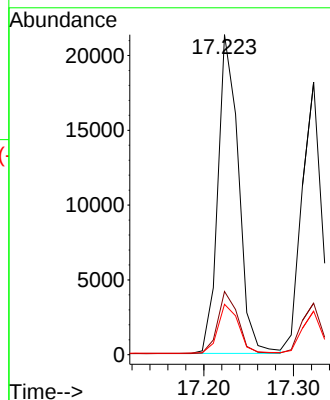
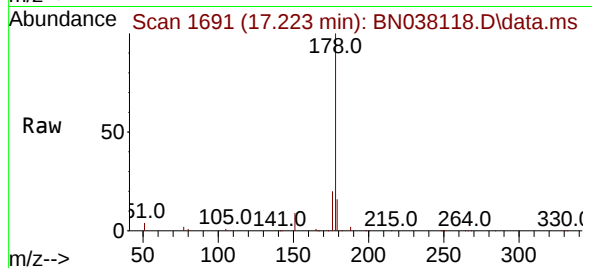
Tgt Ion:178 Resp: 33992

Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.7 12.2 18.4



#26

Anthracene

Concen: 0.406 ng

RT: 17.322 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

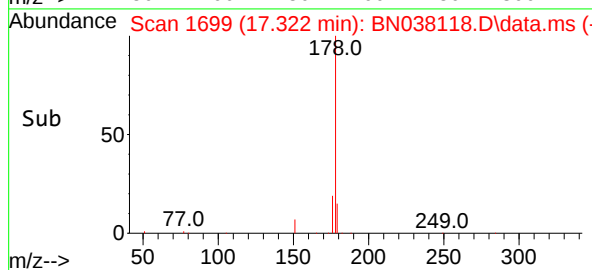
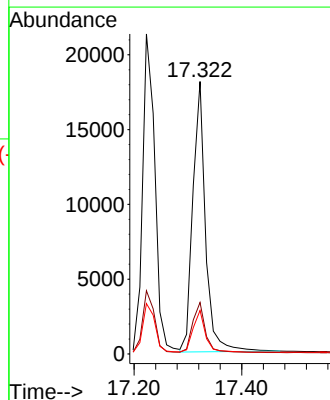
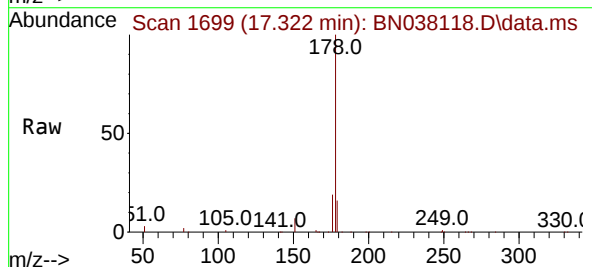
Tgt Ion:178 Resp: 29654

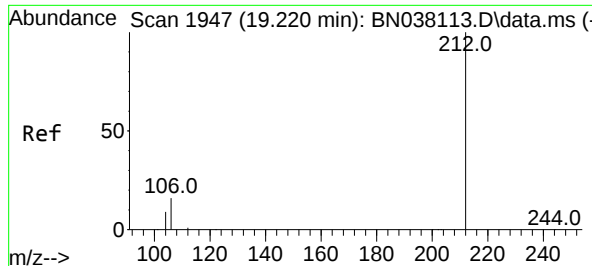
Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

179 15.3 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.389 ng

RT: 19.220 min Scan# 1947

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

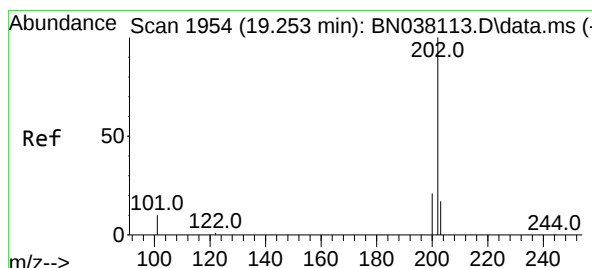
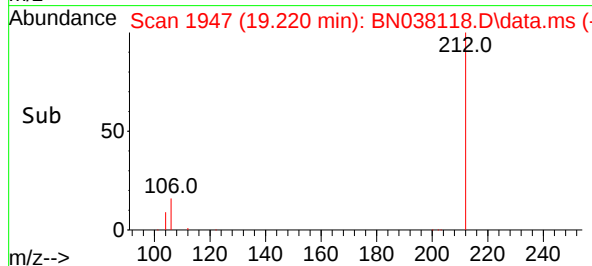
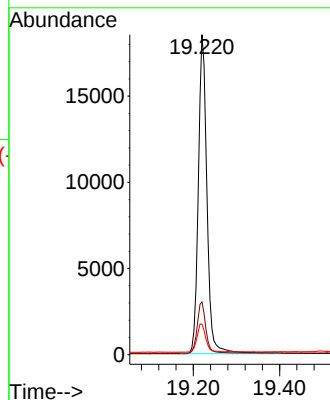
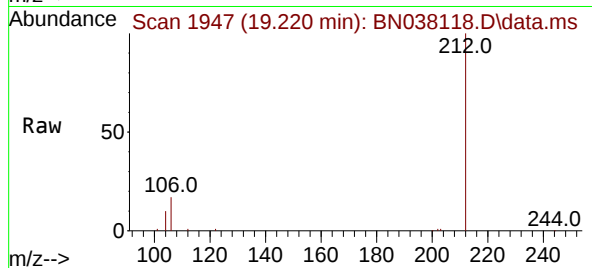
Tgt Ion:212 Resp: 25766

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.0 7.1 10.7



#28

Fluoranthene

Concen: 0.380 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

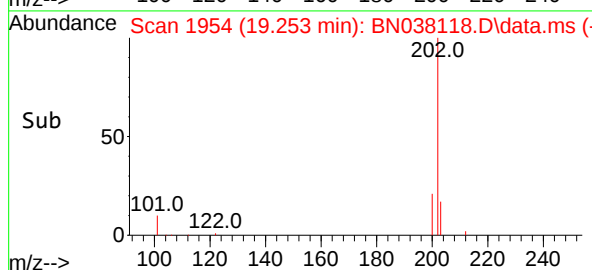
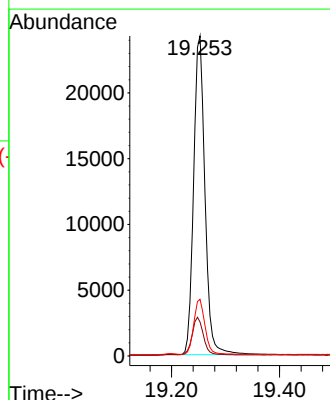
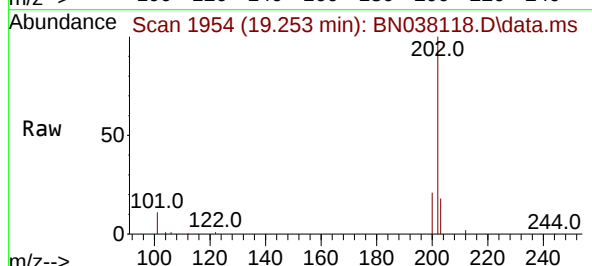
Tgt Ion:202 Resp: 35401

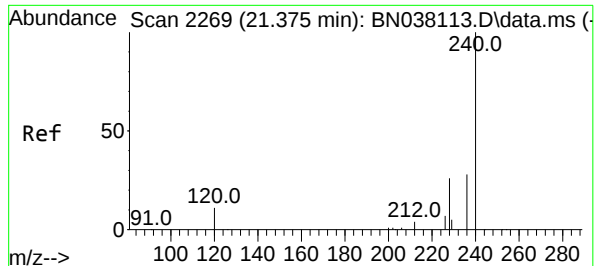
Ion Ratio Lower Upper

202 100

101 11.5 9.4 14.2

203 17.1 13.4 20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

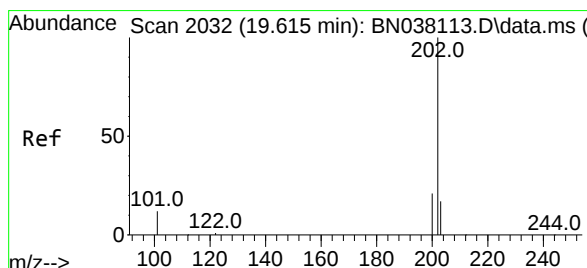
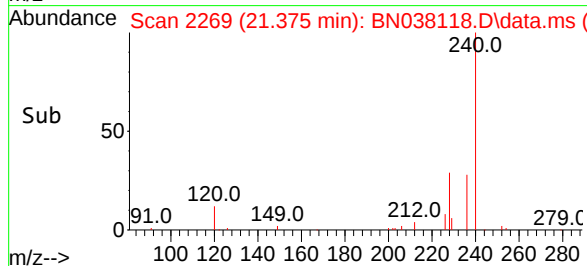
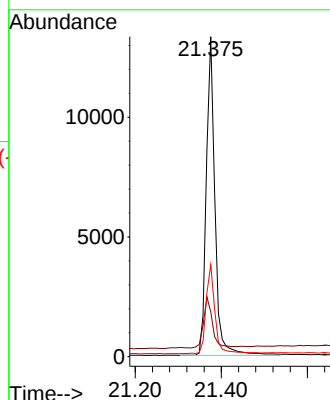
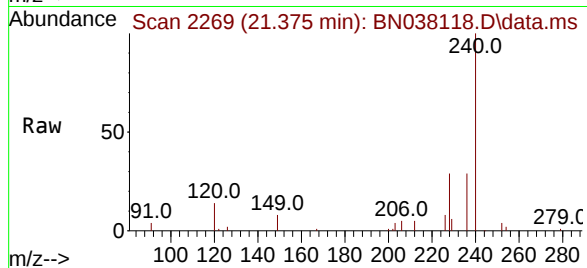
Tgt Ion:240 Resp: 18729

Ion Ratio Lower Upper

240 100

120 14.0 10.7 16.1

236 28.8 23.1 34.7



#30

Pyrene

Concen: 0.422 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

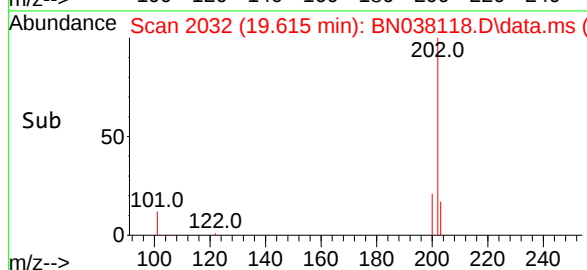
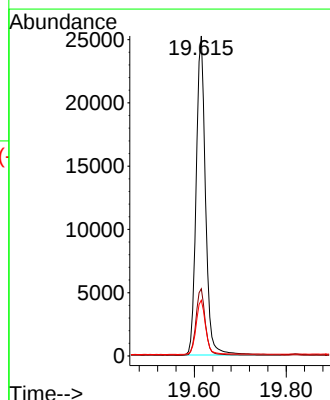
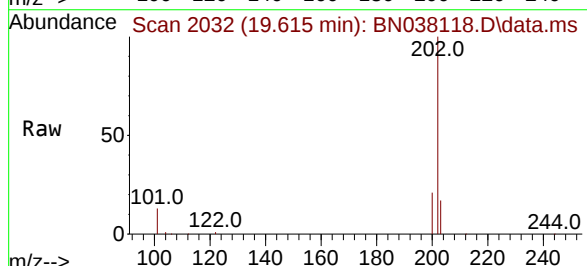
Tgt Ion:202 Resp: 35647

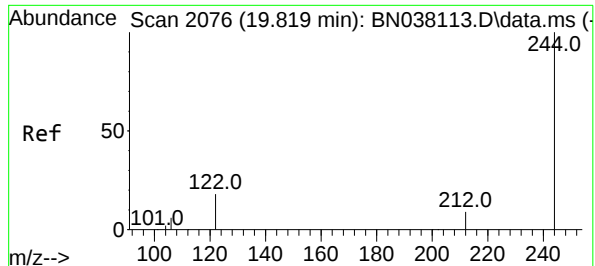
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.6 14.2 21.2

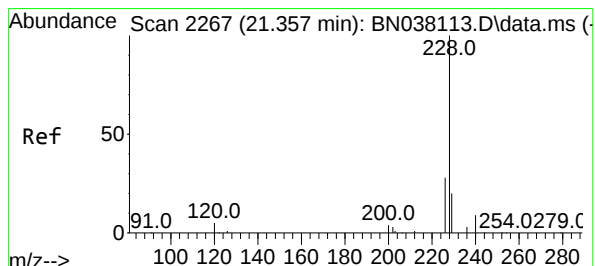
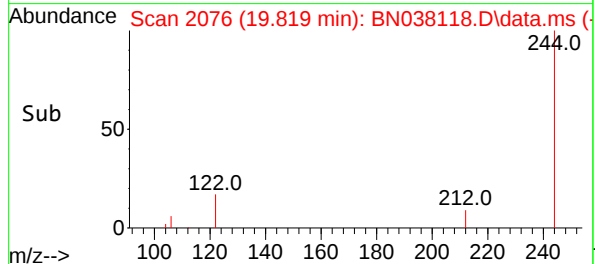
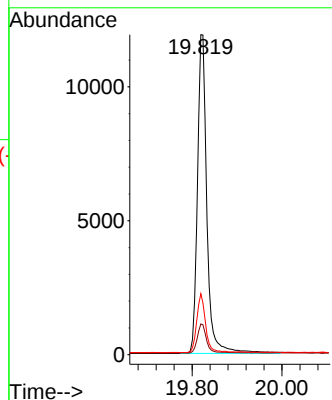
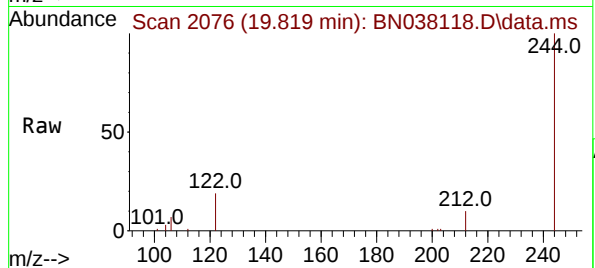




#31
Terphenyl-d14
Concen: 0.428 ng
RT: 19.819 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

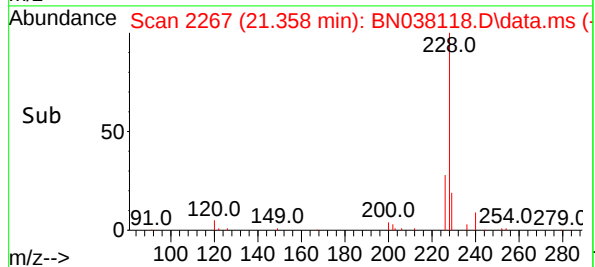
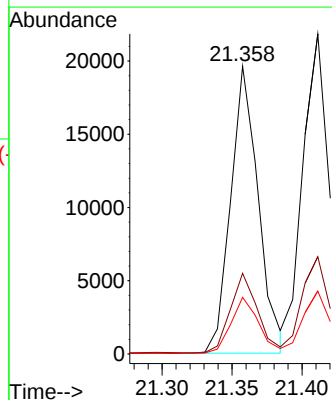
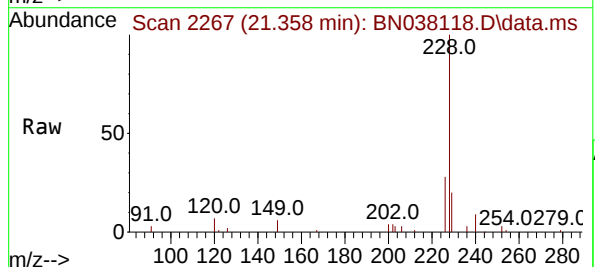
Instrument :
BNA_N
ClientSampleId :
ICVBN102825

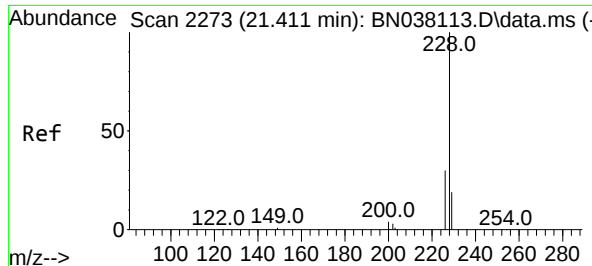
Tgt Ion:244 Resp: 17430
Ion Ratio Lower Upper
244 100
212 9.6 7.8 11.6
122 19.1 15.2 22.8



#32
Benzo(a)anthracene
Concen: 0.402 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038118.D
Acq: 28 Oct 2025 17:51

Tgt Ion:228 Resp: 26833
Ion Ratio Lower Upper
228 100
226 28.0 22.2 33.4
229 19.7 15.8 23.8





#33

Chrysene

Concen: 0.428 ng

RT: 21.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

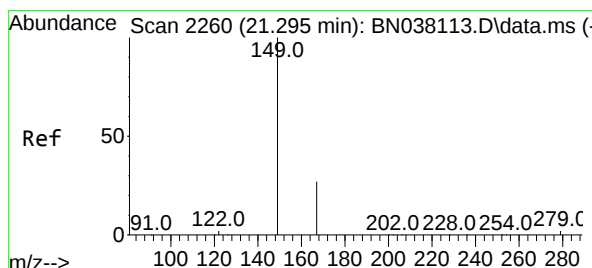
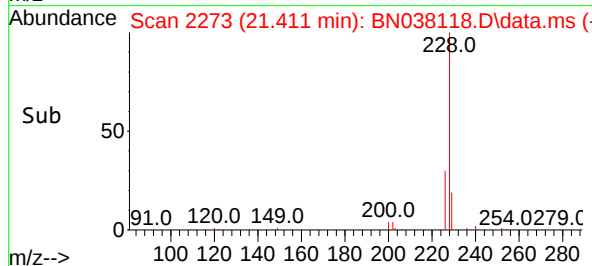
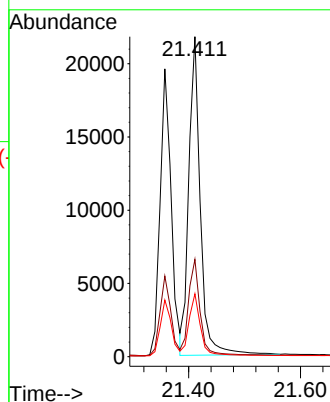
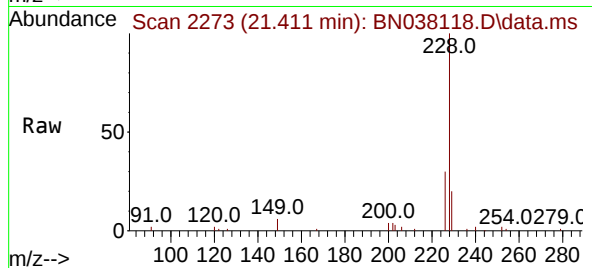
Tgt Ion:228 Resp: 31031

Ion Ratio Lower Upper

228 100

226 30.4 24.3 36.5

229 19.6 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.295 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

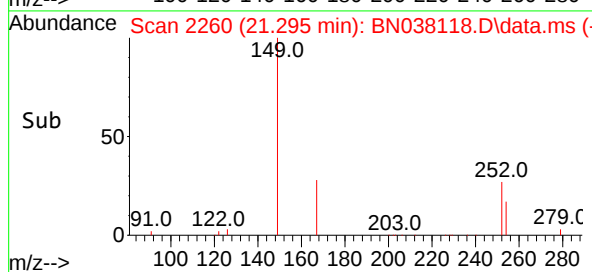
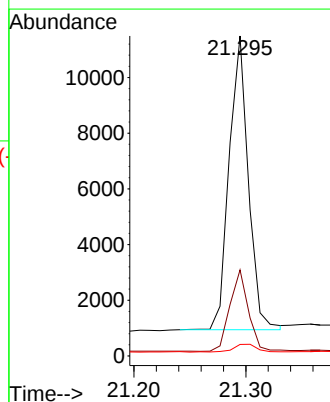
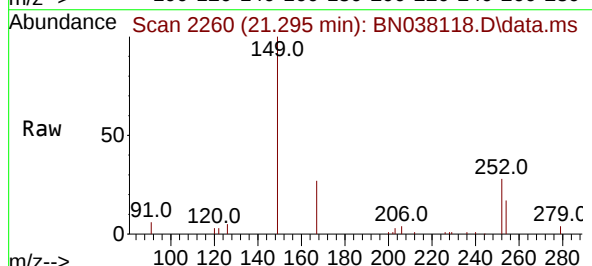
Tgt Ion:149 Resp: 12587

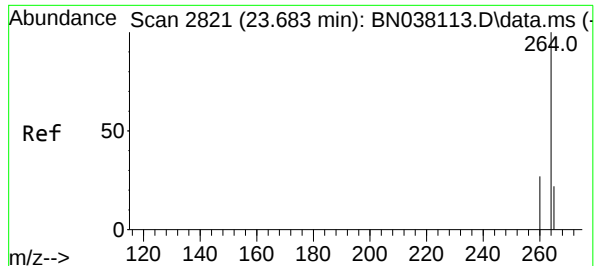
Ion Ratio Lower Upper

149 100

167 27.0 21.1 31.7

279 3.4 2.9 4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.683 min Scan# 2821

Delta R.T. 0.003 min

Lab File: BN038118.D

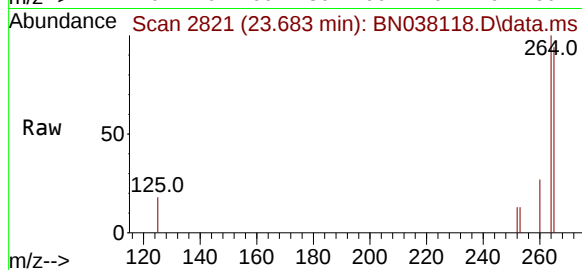
Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825



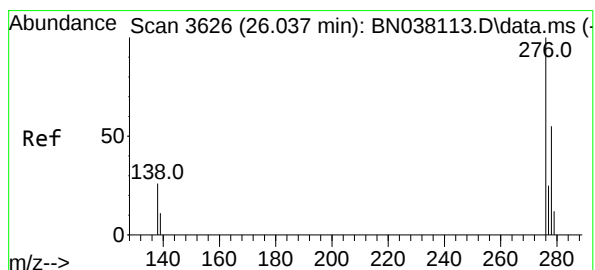
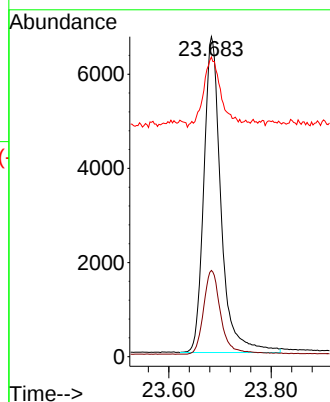
Tgt Ion:264 Resp: 15660

Ion Ratio Lower Upper

264 100

260 27.0 21.8 32.8

265 93.6 68.6 102.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.406 ng

RT: 26.037 min Scan# 3626

Delta R.T. 0.003 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

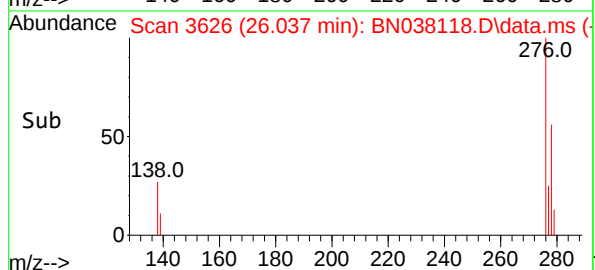
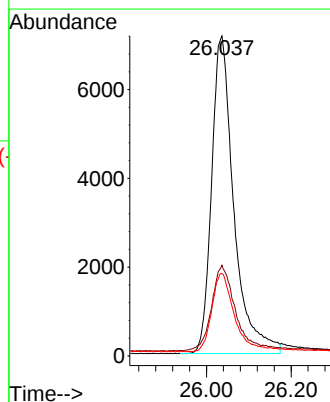
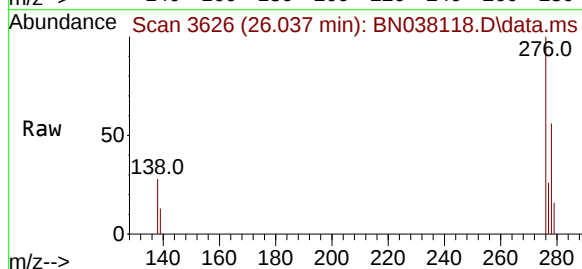
Tgt Ion:276 Resp: 26115

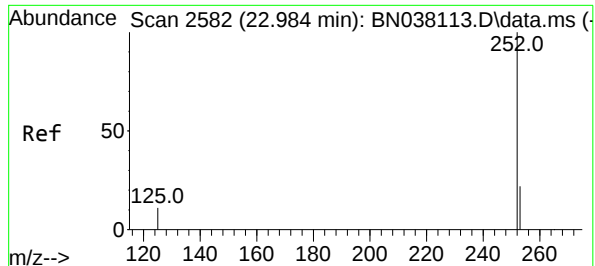
Ion Ratio Lower Upper

276 100

138 27.9 21.4 32.0

277 24.8 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 0.405 ng

RT: 22.984 min Scan# 2582

Delta R.T. 0.003 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

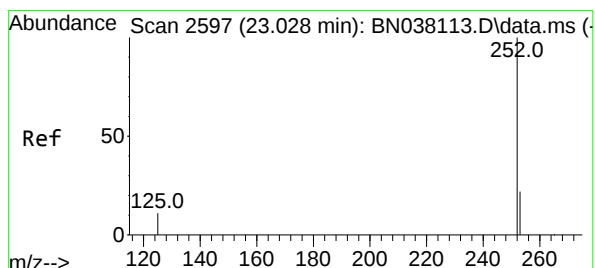
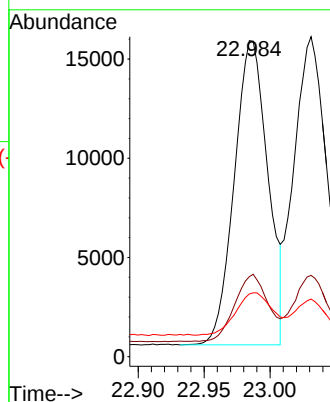
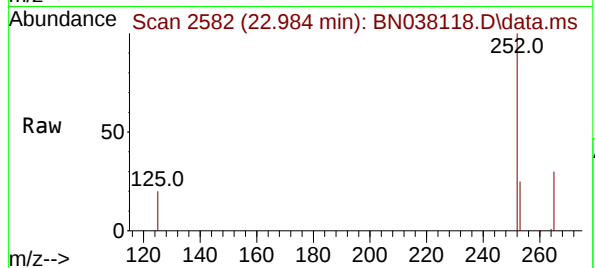
Tgt Ion:252 Resp: 27124

Ion Ratio Lower Upper

252 100

253 25.3 20.9 31.3

125 19.9 14.1 21.1



#38

Benzo(k)fluoranthene

Concen: 0.439 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.003 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

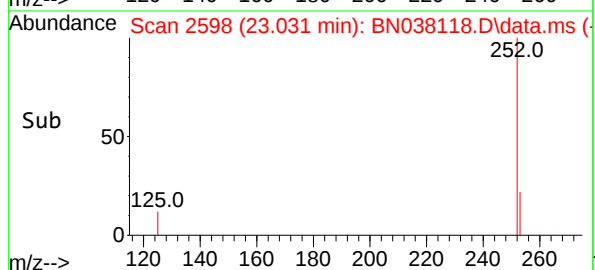
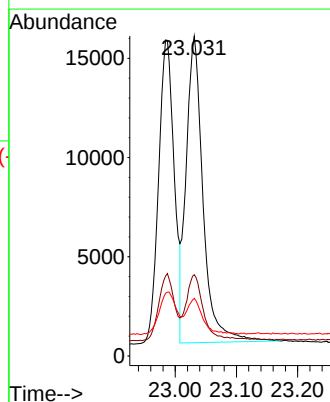
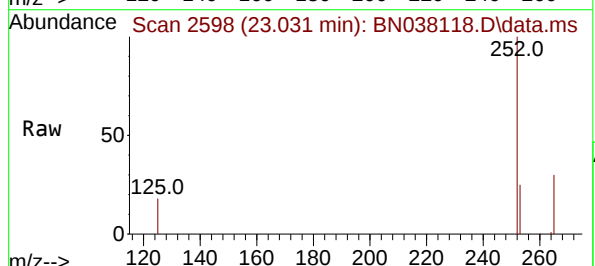
Tgt Ion:252 Resp: 29583

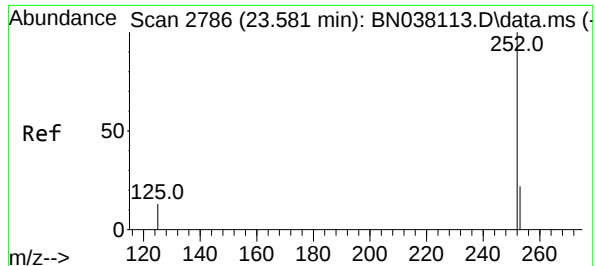
Ion Ratio Lower Upper

252 100

253 25.4 21.2 31.8

125 18.0 14.6 22.0





#39

Benzo(a)pyrene

Concen: 0.437 ng

RT: 23.581 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825

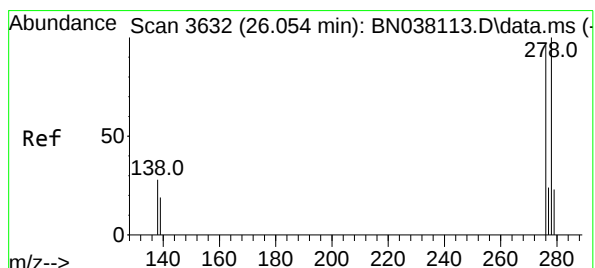
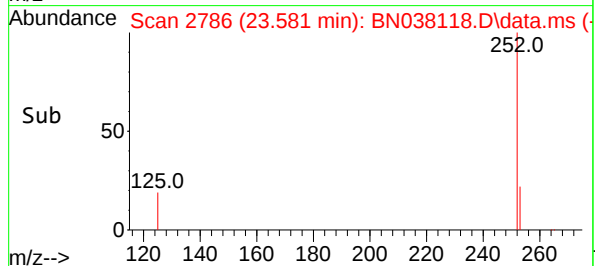
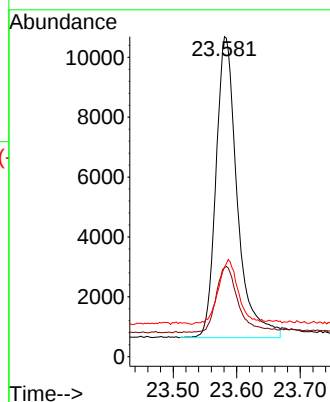
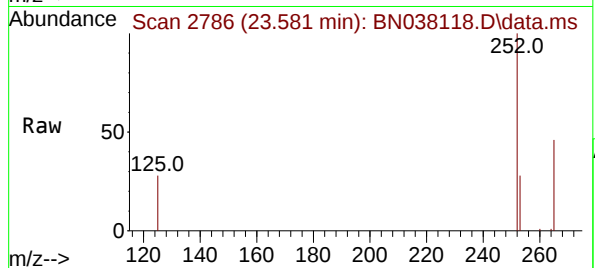
Tgt Ion:252 Resp: 23400

Ion Ratio Lower Upper

252 100

253 27.8 23.1 34.7

125 28.0 18.6 28.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.403 ng

RT: 26.051 min Scan# 3631

Delta R.T. 0.003 min

Lab File: BN038118.D

Acq: 28 Oct 2025 17:51

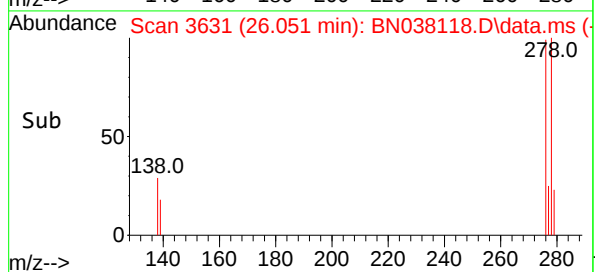
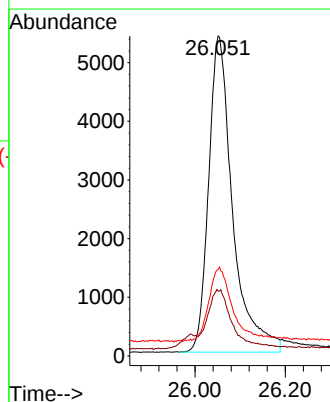
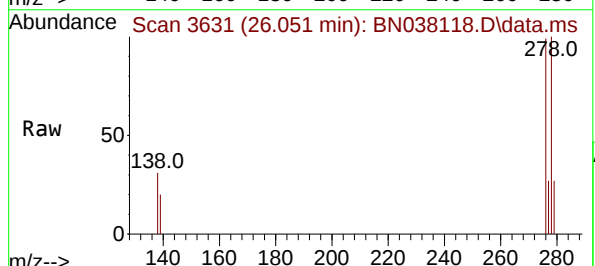
Tgt Ion:278 Resp: 19931

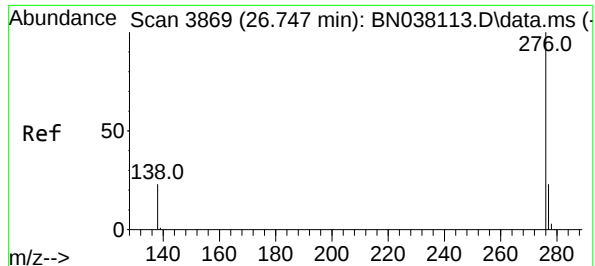
Ion Ratio Lower Upper

278 100

139 20.2 17.6 26.4

279 27.0 22.6 33.8





#41

Benzo(g,h,i)perylene

Concen: 0.392 ng

RT: 26.756 min Scan# 3872

Delta R.T. 0.006 min

Lab File: BN038118.D

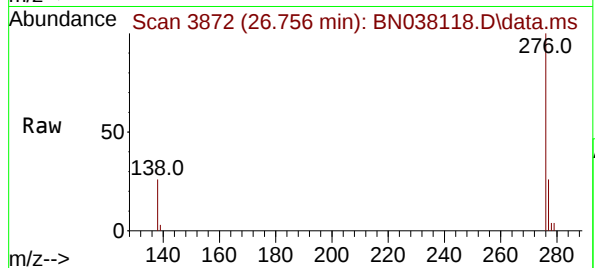
Acq: 28 Oct 2025 17:51

Instrument :

BNA_N

ClientSampleId :

ICVBN102825



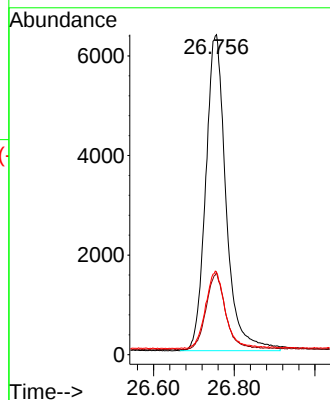
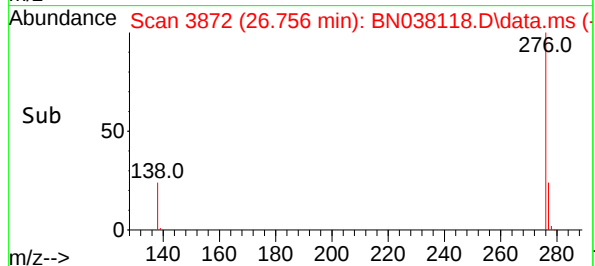
Tgt Ion:276 Resp: 22180

Ion Ratio Lower Upper

276 100

277 25.7 19.7 29.5

138 25.7 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
 Data File : BN038118.D
 Acq On : 28 Oct 2025 17:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN102825

Quant Time: Oct 29 17:07:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 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	84	0.00
2	1,4-Dioxane	0.413	0.455	-10.2	90	0.00
3	n-Nitrosodimethylamine	0.532	0.529	0.6	82	0.00
4 S	2-Fluorophenol	0.942	0.866	8.1	76	0.00
5 S	Phenol-d6	1.148	1.006	12.4	74	0.00
6	bis(2-Chloroethyl)ether	1.128	1.202	-6.6	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	84	0.01
8 S	Nitrobenzene-d5	0.323	0.285	11.8	76	0.00
9	Naphthalene	1.102	1.121	-1.7	87	0.00
10	Hexachlorobutadiene	0.186	0.202	-8.6	91	0.00
11 SURR	2-Methylnaphthalene-d10	0.571	0.585	-2.5	89	0.00
12	2-Methylnaphthalene	0.735	0.704	4.2	84	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	86	0.01
14 S	2,4,6-Tribromophenol	0.165	0.140	15.2	81	0.00
15 S	2-Fluorobiphenyl	1.602	1.647	-2.8	90	0.01
16	Acenaphthylene	1.811	2.060	-13.7	103	0.00
17	Acenaphthene	1.267	1.262	0.4	89	0.01
18	Fluorene	1.661	1.719	-3.5	92	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00
20	4,6-Dinitro-2-methylphenol	0.055	0.043	21.8	86	0.00
21	4-Bromophenyl-phenylether	0.262	0.262	0.0	93	0.00
22	Hexachlorobenzene	0.298	0.318	-6.7	95	0.00
23	Atrazine	0.192	0.178	7.3	90	0.00
24	Pentachlorophenol	0.128	0.113	11.7	93	0.00
25	Phenanthrene	1.270	1.294	-1.9	94	0.00
26	Anthracene	1.111	1.129	-1.6	96	0.00
27 SURR	Fluoranthene-d10	1.009	0.981	2.8	91	0.00
28	Fluoranthene	1.419	1.347	5.1	89	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	87	0.00
30	Pyrene	1.806	1.903	-5.4	90	0.00
31 S	Terphenyl-d14	0.869	0.931	-7.1	93	0.00
32	Benzo(a)anthracene	1.427	1.433	-0.4	92	0.00
33	Chrysene	1.549	1.657	-7.0	93	0.00
34	Bis(2-ethylhexyl)phthalate	0.752	0.672	10.6	81	0.00
35 I	Perylene-d12	1.000	1.000	0.0	87	0.00
36	Indeno(1,2,3-cd)pyrene	1.643	1.668	-1.5	91	0.00
37	Benzo(b)fluoranthene	1.710	1.732	-1.3	93	0.00
38	Benzo(k)fluoranthene	1.721	1.889	-9.8	102	0.00
39 C	Benzo(a)pyrene	1.369	1.494	-9.1	99	0.00
40	Dibenzo(a,h)anthracene	1.265	1.273	-0.6	93	0.00
41	Benzo(g,h,i)perylene	1.444	1.416	1.9	87	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038118.D
Acq On : 28 Oct 2025 17:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN102825

Quant Time: Oct 29 17:07:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 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	84	0.00
2	1,4-Dioxane	0.400	0.440	-10.0	90	0.00
3	n-Nitrosodimethylamine	0.400	0.398	0.5	82	0.00
4 S	2-Fluorophenol	0.400	0.368	8.0	76	0.00
5 S	Phenol-d6	0.400	0.351	12.3	74	0.00
6	bis(2-Chloroethyl)ether	0.400	0.427	-6.7	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	84	0.01
8 S	Nitrobenzene-d5	0.400	0.353	11.8	76	0.00
9	Naphthalene	0.400	0.407	-1.7	87	0.00
10	Hexachlorobutadiene	0.400	0.435	-8.7	91	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.410	-2.5	89	0.00
12	2-Methylnaphthalene	0.400	0.384	4.0	84	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	86	0.01
14 S	2,4,6-Tribromophenol	0.400	0.340	15.0	81	0.00
15 S	2-Fluorobiphenyl	0.400	0.411	-2.7	90	0.01
16	Acenaphthylene	0.400	0.455	-13.7	103	0.00
17	Acenaphthene	0.400	0.398	0.5	89	0.01
18	Fluorene	0.400	0.414	-3.5	92	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	89	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.411	-2.7	86	0.00
21	4-Bromophenyl-phenylether	0.400	0.400	0.0	93	0.00
22	Hexachlorobenzene	0.400	0.426	-6.5	95	0.00
23	Atrazine	0.400	0.370	7.5	90	0.00
24	Pentachlorophenol	0.400	0.351	12.3	93	0.00
25	Phenanthrene	0.400	0.408	-2.0	94	0.00
26	Anthracene	0.400	0.406	-1.5	96	0.00
27 SURR	Fluoranthene-d10	0.400	0.389	2.8	91	0.00
28	Fluoranthene	0.400	0.380	5.0	89	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	87	0.00
30	Pyrene	0.400	0.422	-5.5	90	0.00
31 S	Terphenyl-d14	0.400	0.428	-7.0	93	0.00
32	Benzo(a)anthracene	0.400	0.402	-0.5	92	0.00
33	Chrysene	0.400	0.428	-7.0	93	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.358	10.5	81	0.00
35 I	Perylene-d12	0.400	0.400	0.0	87	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.406	-1.5	91	0.00
37	Benzo(b)fluoranthene	0.400	0.405	-1.3	93	0.00
38	Benzo(k)fluoranthene	0.400	0.439	-9.7	102	0.00
39 C	Benzo(a)pyrene	0.400	0.437	-9.2	99	0.00
40	Dibenzo(a,h)anthracene	0.400	0.403	-0.8	93	0.00
41	Benzo(g,h,i)perylene	0.400	0.392	2.0	87	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG No.: Q3478
 Instrument ID: BNA_N Calibration Date/Time: 10/30/2025 10:01
 Lab File ID: BN038121.D Init. Calib. Date(s): 10/28/2025 10/28/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:00 16:38
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.571	0.543		-4.9	20.0
Fluoranthene-d10	1.008	0.937		-7.0	20.0
2-Fluorophenol	0.943	0.864		-8.4	20.0
Phenol-d6	1.148	1.032		-10.1	20.0
Nitrobenzene-d5	0.323	0.305		-5.6	20.0
Naphthalene	1.102	1.086		-1.5	20.0
2-Methylnaphthalene	0.735	0.707		-3.8	20.0
2-Fluorobiphenyl	1.602	1.629		1.7	20.0
Acenaphthylene	1.812	1.716		-5.3	20.0
Acenaphthene	1.268	1.207		-4.8	20.0
Fluorene	1.667	1.611		-3.4	20.0
2,4,6-Tribromophenol	0.165	0.129		-21.8	20.0
Phenanthrene	1.269	1.224		-3.5	20.0
Anthracene	1.110	1.019		-8.2	20.0
Fluoranthene	1.418	1.327		-6.4	20.0
Pyrene	1.806	1.746		-3.3	20.0
Terphenyl-d14	0.869	0.849		-2.3	20.0
Benzo(a)anthracene	1.427	1.294		-9.3	20.0
Chrysene	1.549	1.570		1.4	20.0
Benzo(b)fluoranthene	1.709	1.668		-2.4	20.0
Benzo(k)fluoranthene	1.721	1.687		-2.0	20.0
Benzo(a)pyrene	1.369	1.293		-5.6	20.0
Indeno(1,2,3-cd)pyrene	1.643	1.616		-1.6	20.0
Dibenzo(a,h)anthracene	1.265	1.216		-3.9	20.0
Benzo(g,h,i)perylene	1.444	1.453		0.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
 Data File : BN038121.D
 Acq On : 30 Oct 2025 10:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Oct 30 10:54:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration

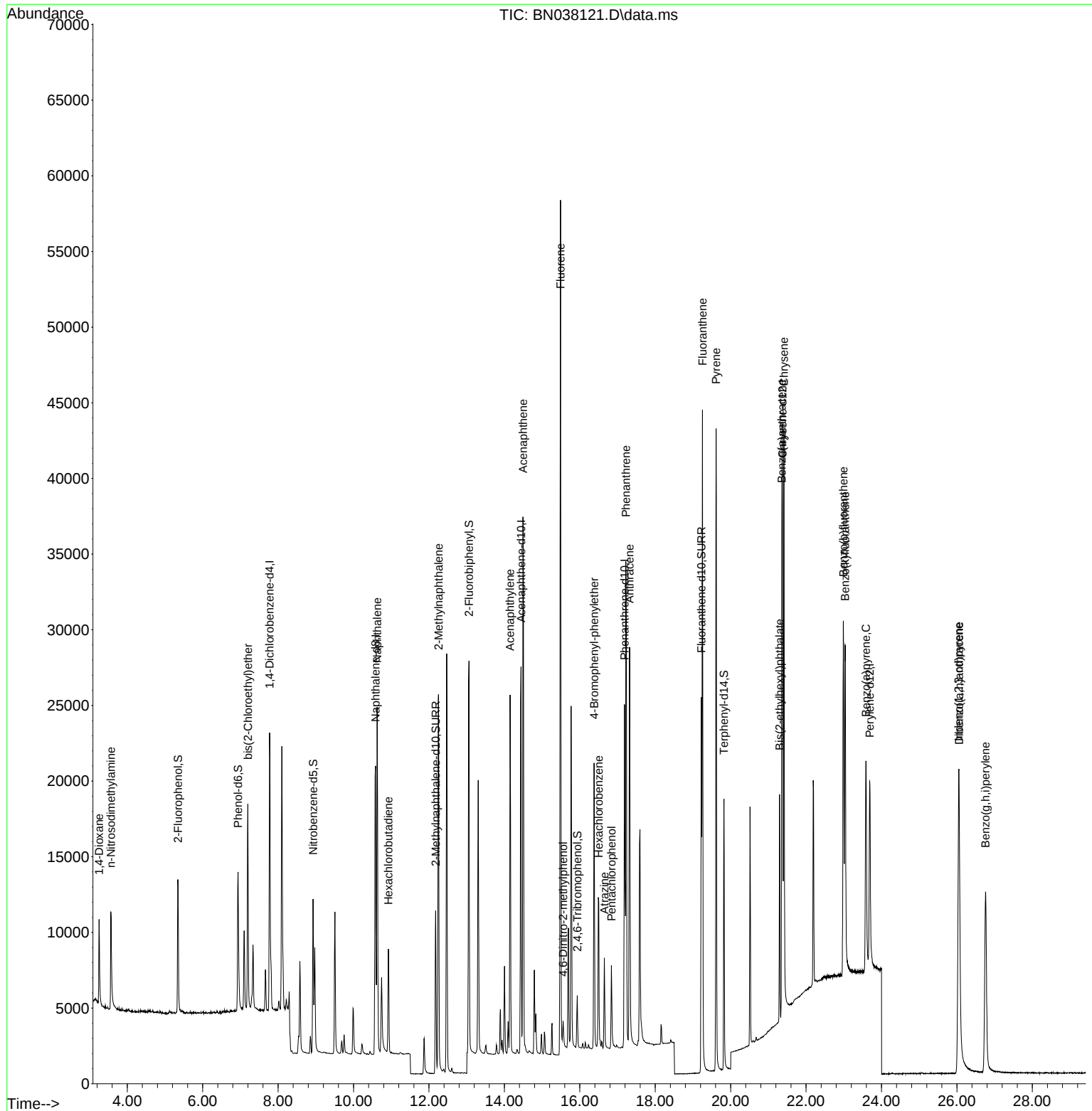
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	9463	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	27993	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	15485	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	29995	0.400	ng	0.00
29) Chrysene-d12	21.375	240	22293	0.400	ng	# 0.00
35) Perylene-d12	23.689	264	19014	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	8175	0.367	ng	0.00
5) Phenol-d6	6.937	99	9766	0.360	ng	0.00
8) Nitrobenzene-d5	8.929	82	8527	0.377	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	15201	0.380	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	1997	0.313	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	25223	0.407	ng	0.01
27) Fluoranthene-d10	19.225	212	28100	0.372	ng	0.00
31) Terphenyl-d14	19.824	244	18936	0.391	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.254	88	3919	0.401	ng	Qvalue 98
3) n-Nitrosodimethylamine	3.564	42	4728	0.376	ng	# 98
6) bis(2-Chloroethyl)ether	7.197	93	10613	0.398	ng	100
9) Naphthalene	10.626	128	30388	0.394	ng	100
10) Hexachlorobutadiene	10.925	225	5338	0.410	ng	# 99
12) 2-Methylnaphthalene	12.253	142	19802	0.385	ng	99
16) Acenaphthylene	14.152	152	26567	0.379	ng	99
17) Acenaphthene	14.494	154	18687	0.381	ng	98
18) Fluorene	15.489	166	24947	0.388	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	1200	0.394	ng	90
21) 4-Bromophenyl-phenylether	16.379	248	7456	0.379	ng	98
22) Hexachlorobenzene	16.503	284	8967	0.401	ng	98
23) Atrazine	16.652	200	4857	0.337	ng	99
24) Pentachlorophenol	16.838	266	2861	0.297	ng	98
25) Phenanthrene	17.223	178	36707	0.385	ng	100
26) Anthracene	17.322	178	30573	0.367	ng	100
28) Fluoranthene	19.252	202	39808	0.374	ng	100
30) Pyrene	19.615	202	38930	0.387	ng	100
32) Benzo(a)anthracene	21.357	228	28853	0.363	ng	99
33) Chrysene	21.411	228	34997	0.405	ng	99
34) Bis(2-ethylhexyl)phtha...	21.295	149	13770	0.329	ng	100
36) Indeno(1,2,3-cd)pyrene	26.045	276	30735	0.393	ng	99
37) Benzo(b)fluoranthene	22.990	252	31713	0.390	ng	98
38) Benzo(k)fluoranthene	23.034	252	32082	0.392	ng	97
39) Benzo(a)pyrene	23.586	252	24588	0.378	ng	97
40) Dibenzo(a,h)anthracene	26.060	278	23122	0.385	ng	97
41) Benzo(g,h,i)perylene	26.759	276	27636	0.403	ng	99

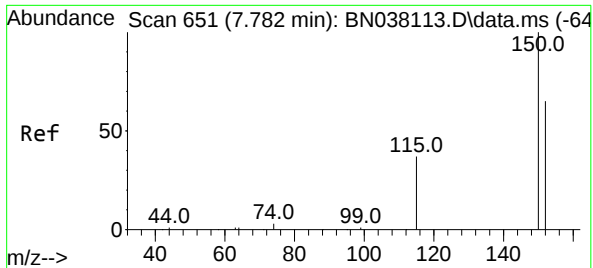
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
Data File : BN038121.D
Acq On : 30 Oct 2025 10:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Oct 30 10:54:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration

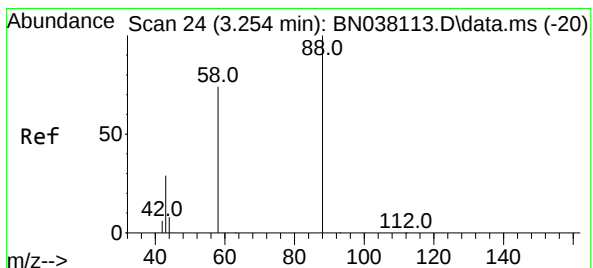
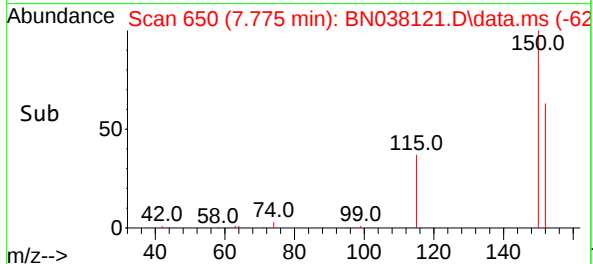
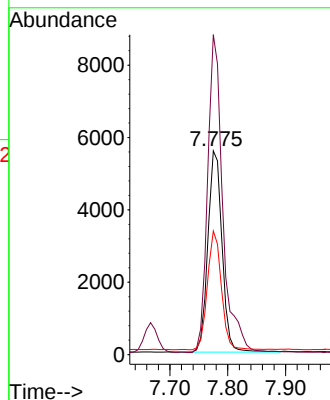
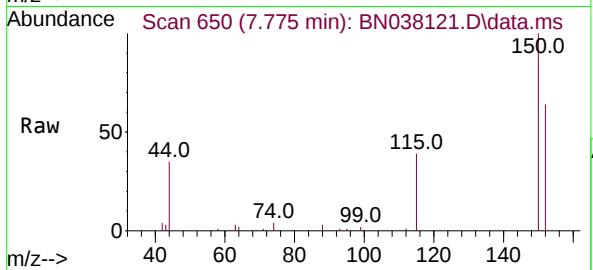




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

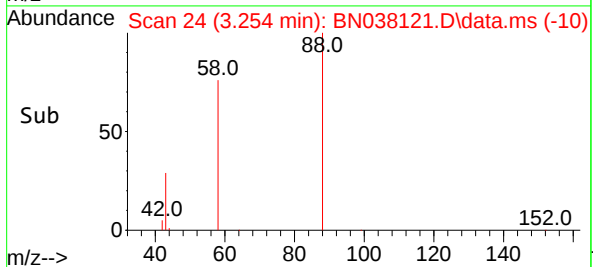
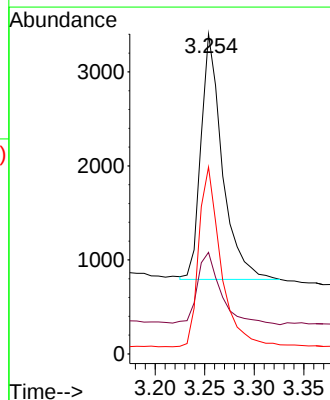
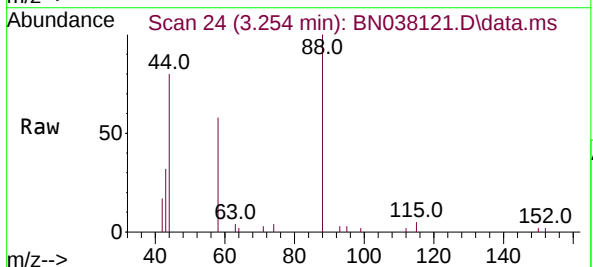
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

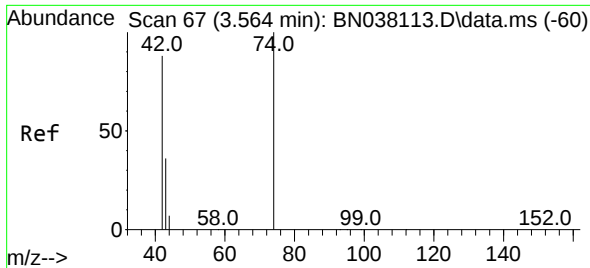
Tgt Ion:152 Resp: 9463
Ion Ratio Lower Upper
152 100
150 157.1 122.3 183.5
115 60.7 47.4 71.0



#2
1,4-Dioxane
Concen: 0.401 ng
RT: 3.254 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion: 88 Resp: 3919
Ion Ratio Lower Upper
88 100
43 32.8 24.3 36.5
58 75.9 60.4 90.6

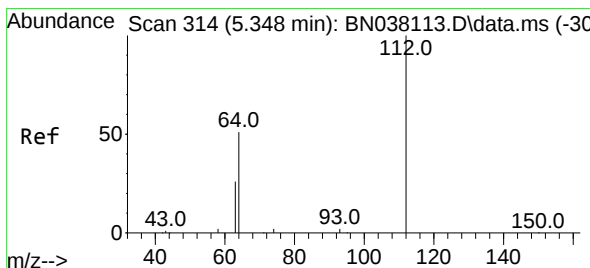
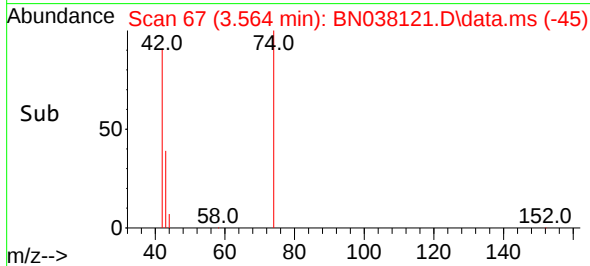
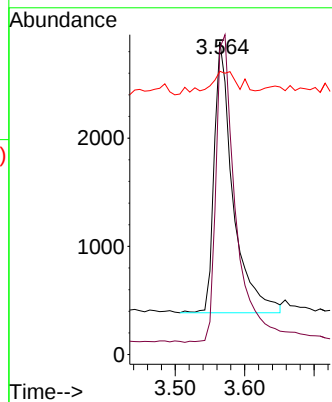
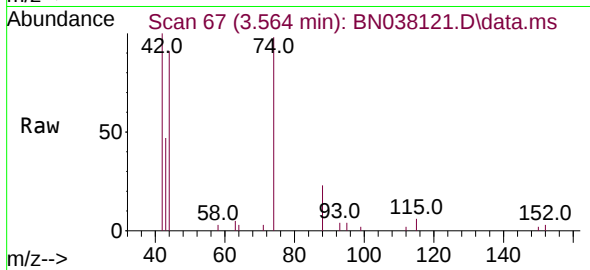




#3
n-Nitrosodimethylamine
Concen: 0.376 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

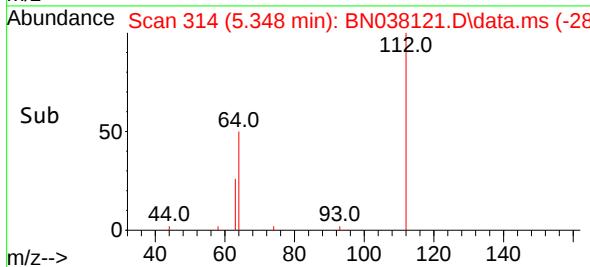
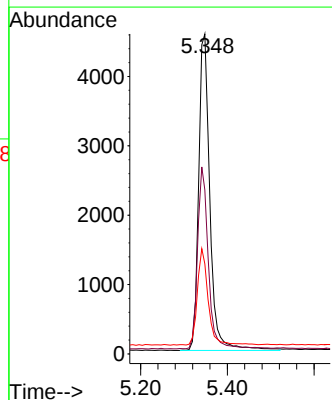
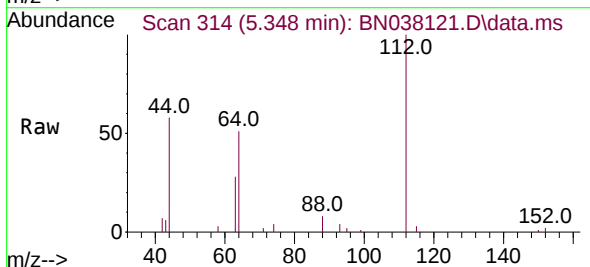
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

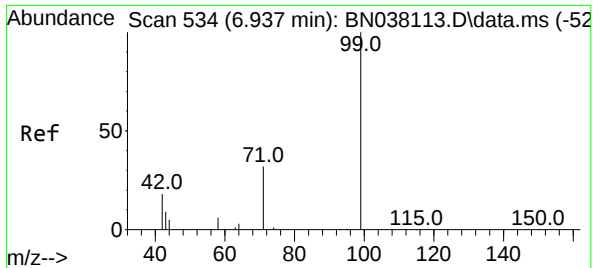
Tgt Ion: 42 Resp: 4728
Ion Ratio Lower Upper
42 100
74 122.1 96.8 145.2
44 14.0 5.3 7.9#



#4
2-Fluorophenol
Concen: 0.367 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion: 112 Resp: 8175
Ion Ratio Lower Upper
112 100
64 55.6 45.4 68.0
63 29.8 23.2 34.8

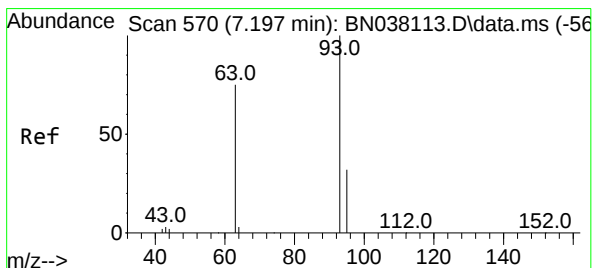
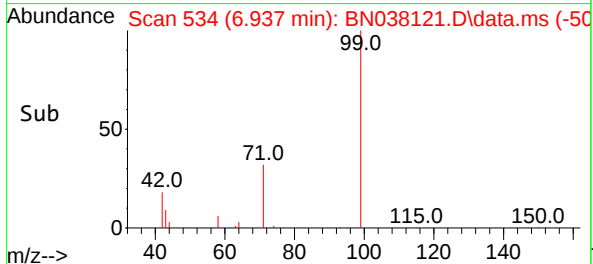
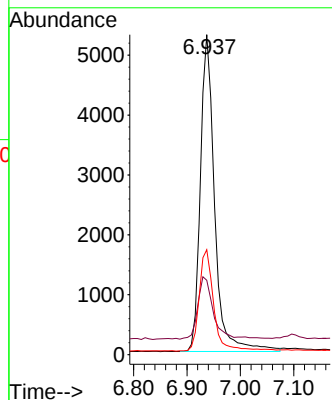
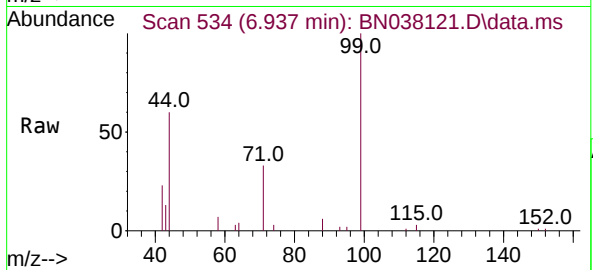




#5
Phenol-d6
Concen: 0.360 ng
RT: 6.937 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

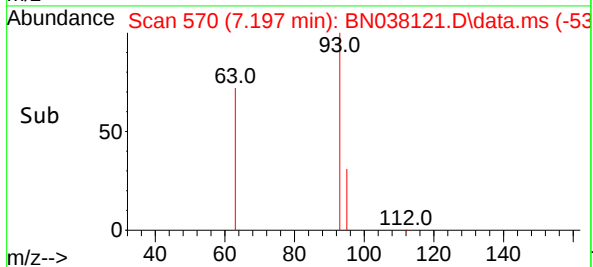
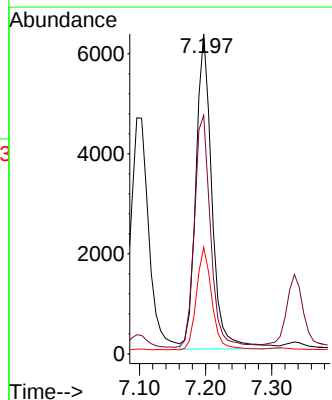
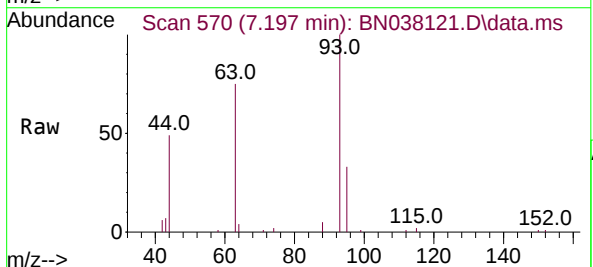
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

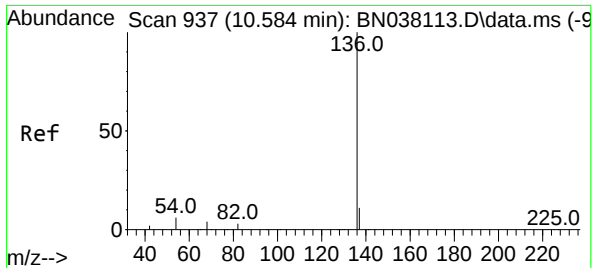
Tgt Ion: 99 Resp: 9766
Ion Ratio Lower Upper
99 100
42 21.1 16.6 24.8
71 33.1 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.197 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion: 93 Resp: 10613
Ion Ratio Lower Upper
93 100
63 73.9 59.3 88.9
95 31.2 25.2 37.8

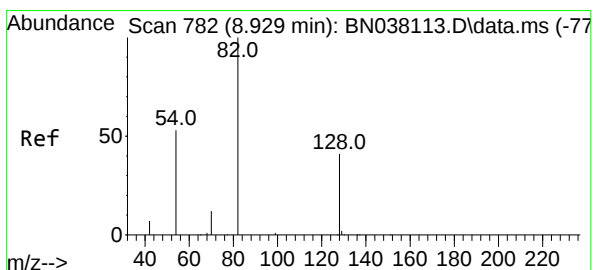
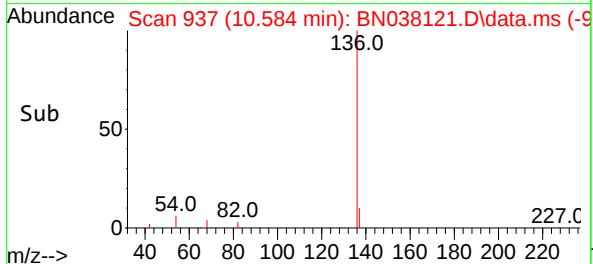
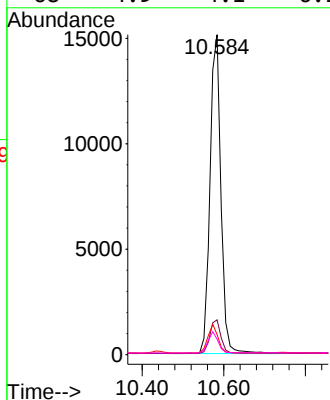
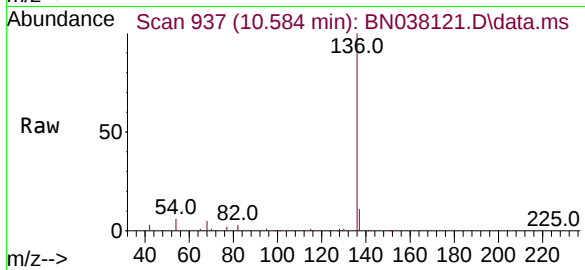




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 937
Delta R.T. 0.011 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

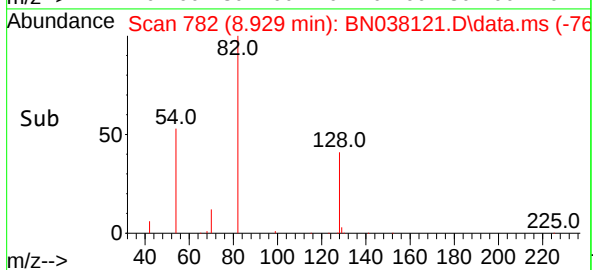
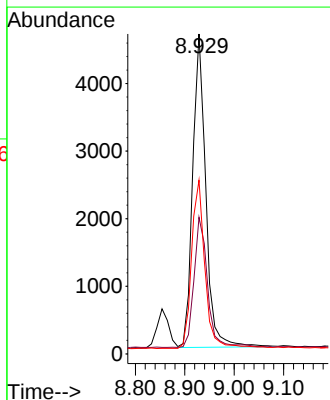
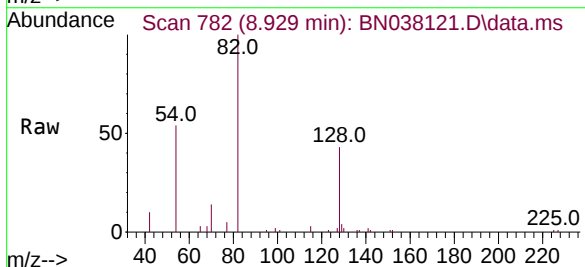
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

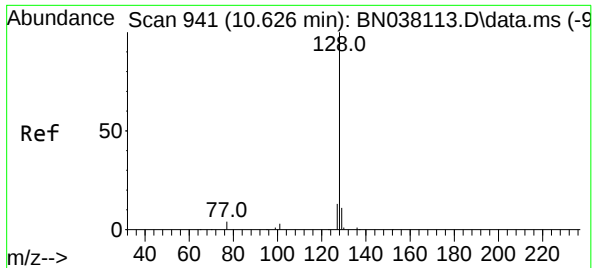
Tgt Ion:	136	Resp:	27993
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.3	5.2	7.8
68	4.9	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.377 ng
RT: 8.929 min Scan# 782
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion:	82	Resp:	8527
Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.1	51.1
54	54.3	43.5	65.3

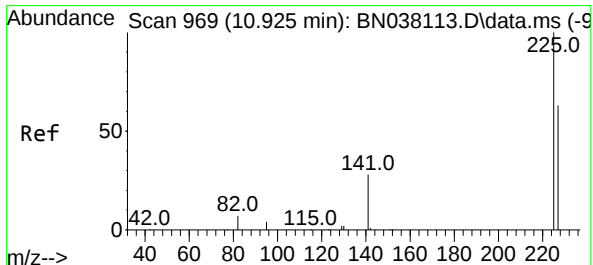
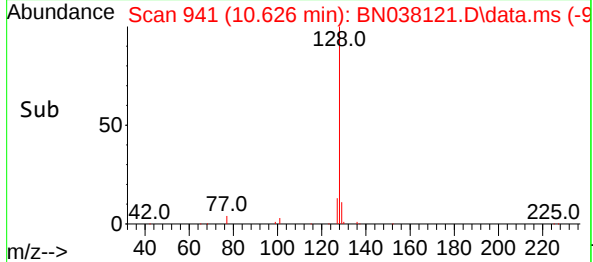
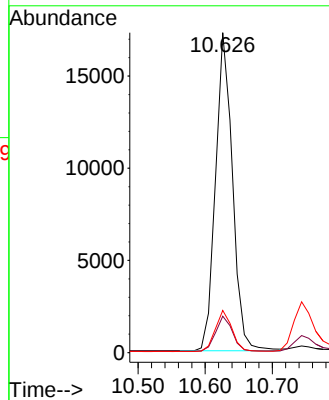
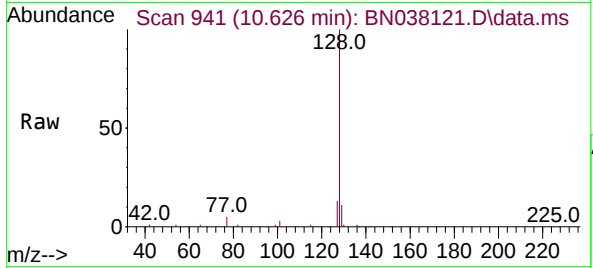




#9
Naphthalene
Concen: 0.394 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

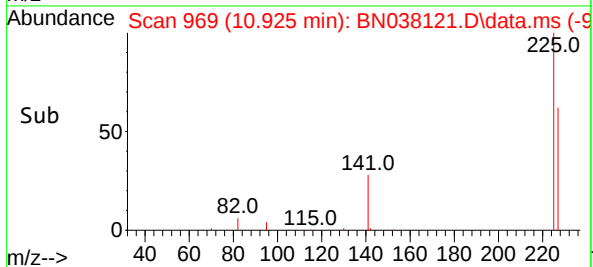
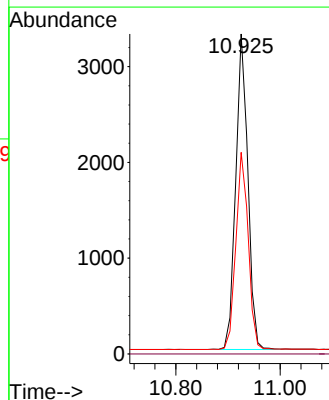
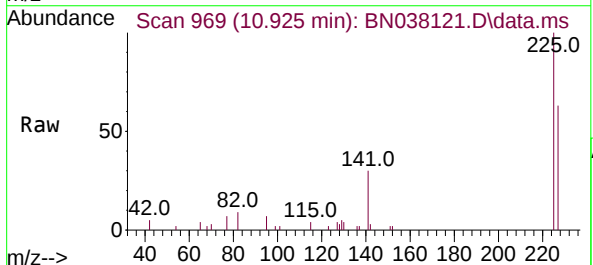
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

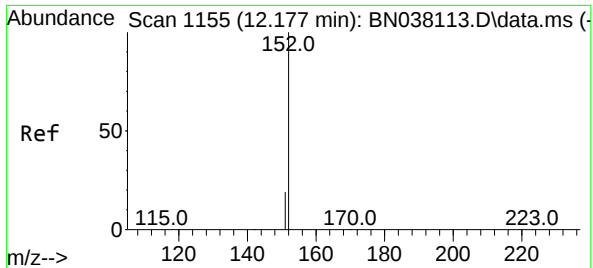
Tgt Ion:	128	Resp:	30388
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.2	10.5	15.7



#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.925 min Scan# 969
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion:	225	Resp:	5338
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	50.3	75.5

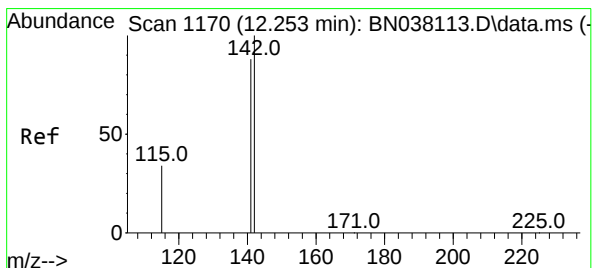
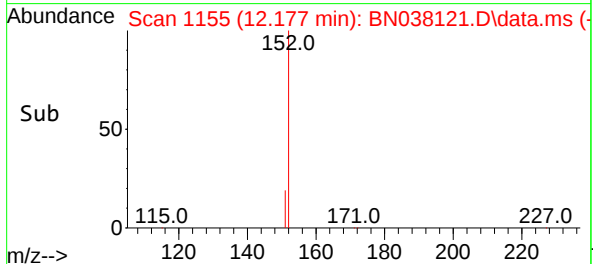
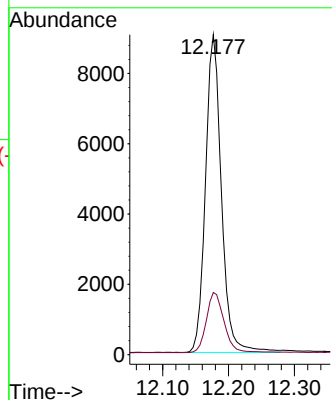
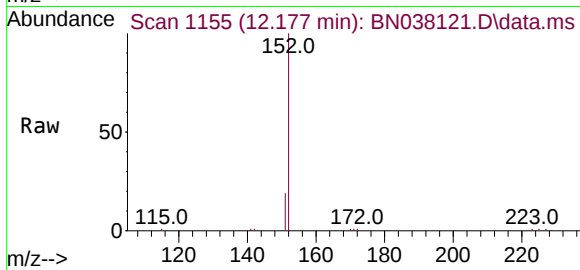




#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

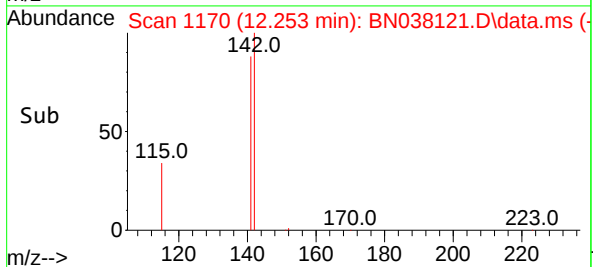
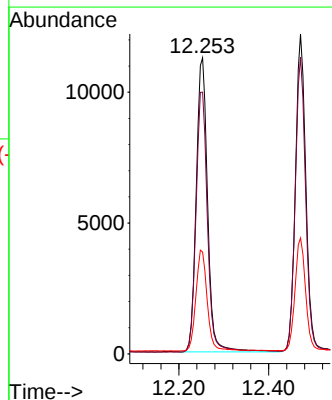
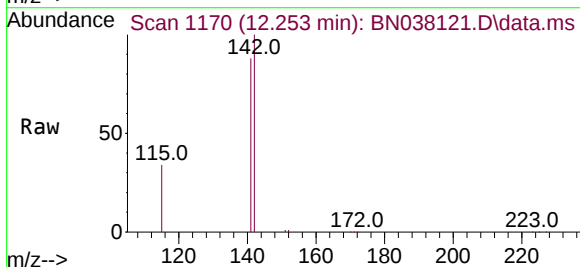
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

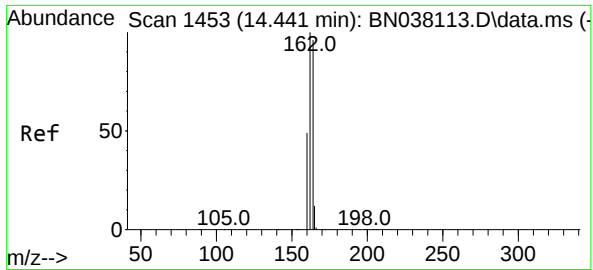
Tgt Ion:152 Resp: 15201
Ion Ratio Lower Upper
152 100
151 21.2 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.253 min Scan# 1170
Delta R.T. 0.005 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion:142 Resp: 19802
Ion Ratio Lower Upper
142 100
141 88.4 70.3 105.5
115 34.4 27.8 41.6

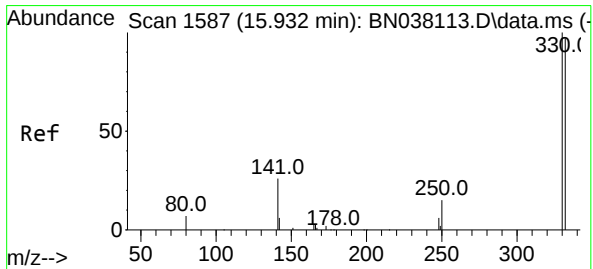
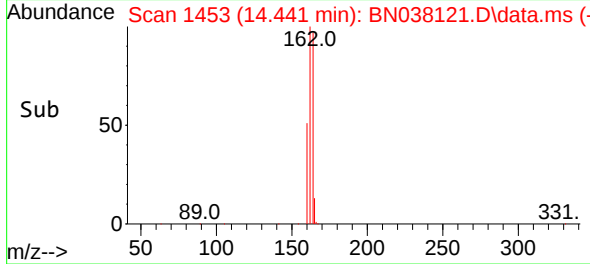
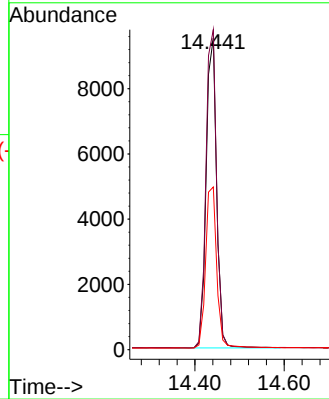
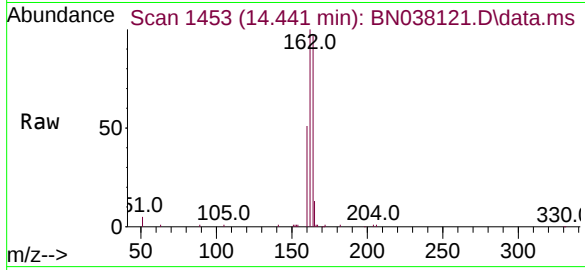




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

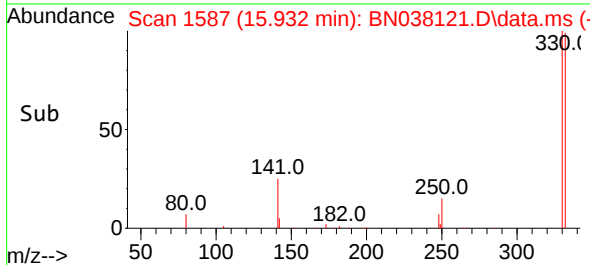
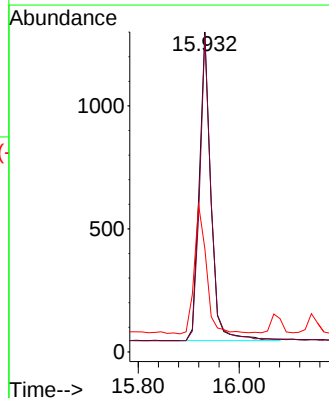
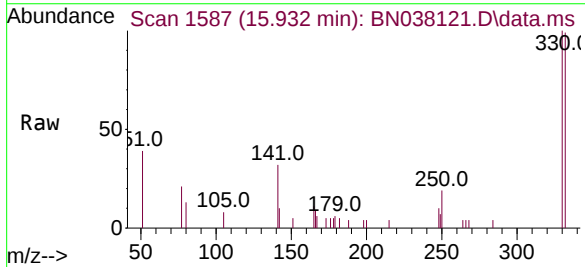
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

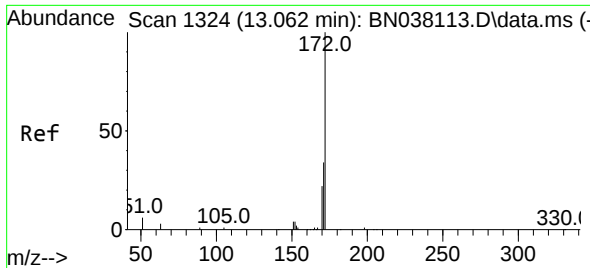
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	83.0	124.4
160	52.2	40.7	61.1



#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.6	114.8
141	44.2	34.1	51.1

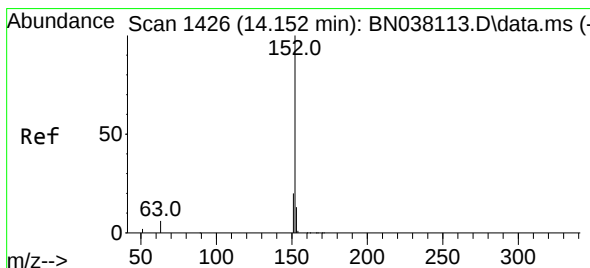
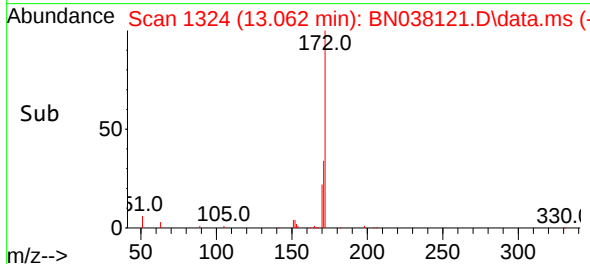
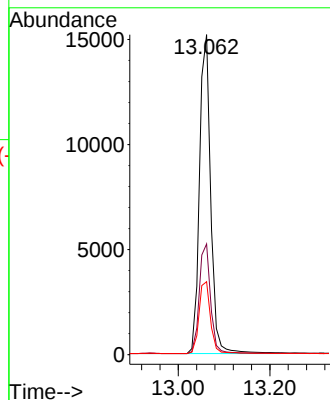
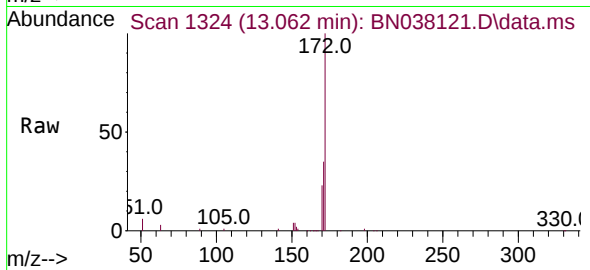




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 13.062 min Scan# 1324
Delta R.T. 0.011 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

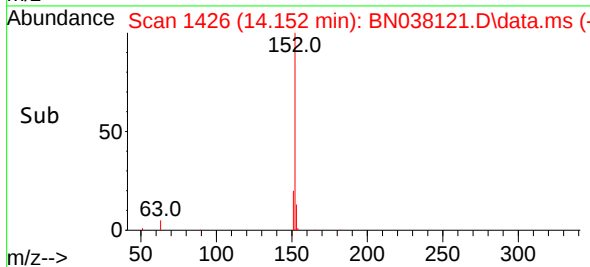
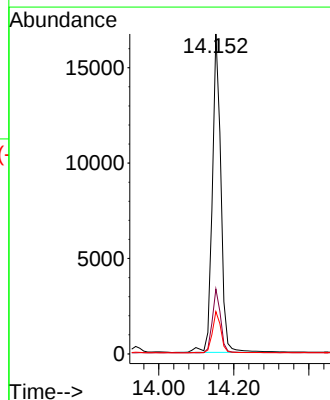
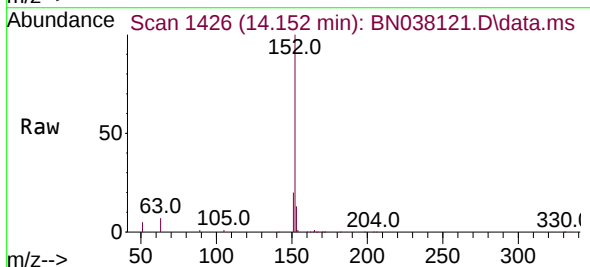
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

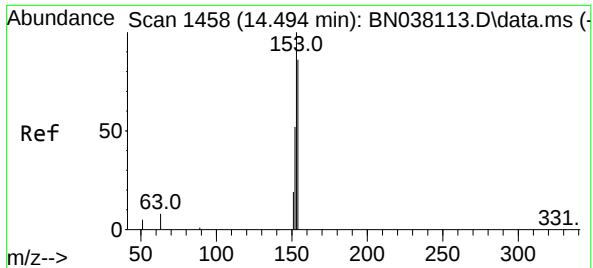
Tgt Ion:	172	Resp:	25223
Ion Ratio	Lower	Upper	
172	100		
171	34.6	27.8	41.6
170	22.8	18.1	27.1



#16
Acenaphthylene
Concen: 0.379 ng
RT: 14.152 min Scan# 1426
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion:	152	Resp:	26567
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.8	23.8
153	13.1	10.2	15.2

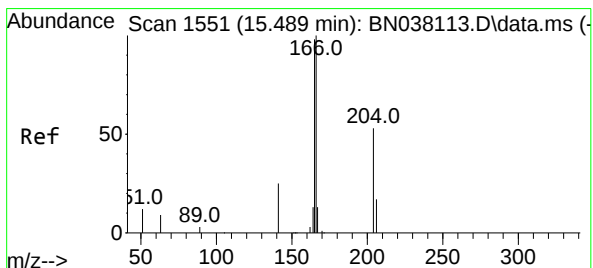
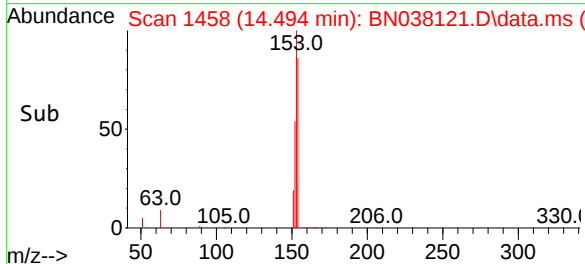
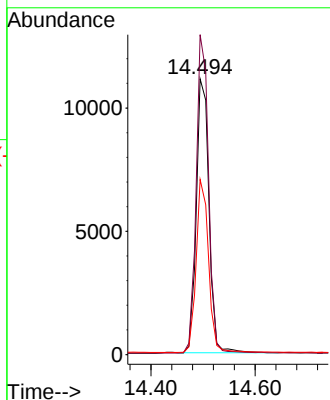
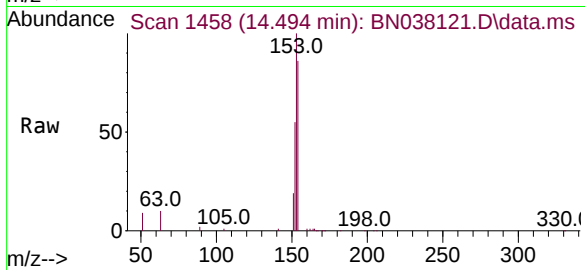




#17
Acenaphthene
Concen: 0.381 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

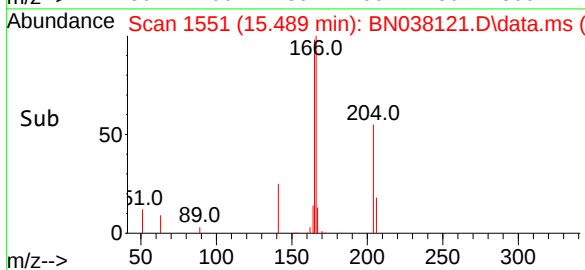
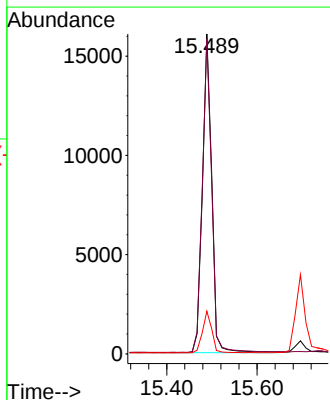
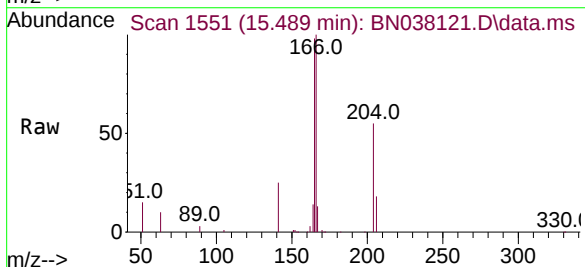
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

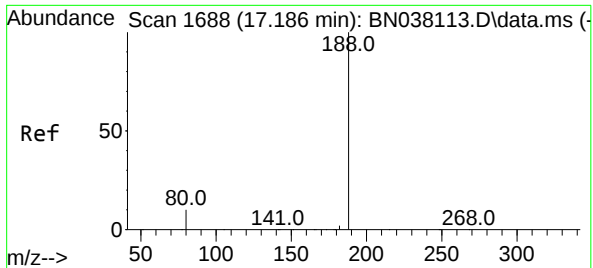
Tgt Ion:154 Resp: 18687
Ion Ratio Lower Upper
154 100
153 113.7 90.0 135.0
152 62.1 47.3 70.9



#18
Fluorene
Concen: 0.388 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion:166 Resp: 24947
Ion Ratio Lower Upper
166 100
165 97.9 79.0 118.4
167 13.2 10.7 16.1

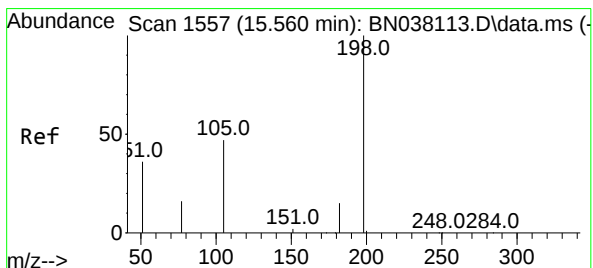
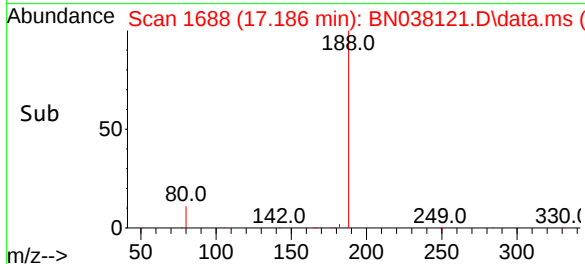
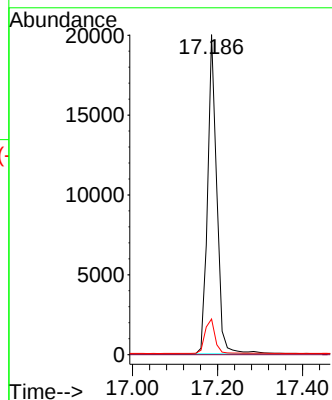
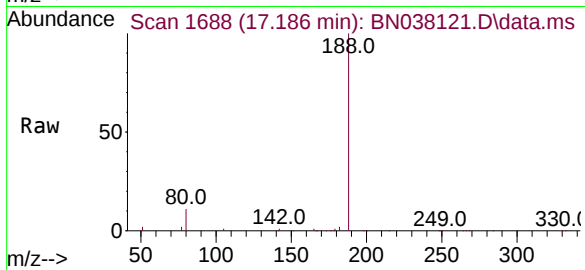




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

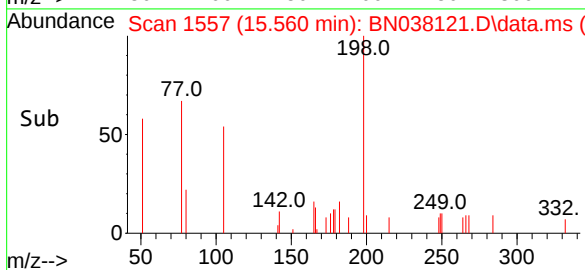
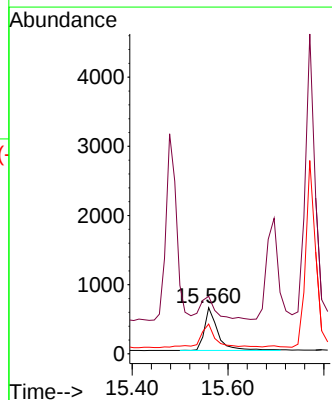
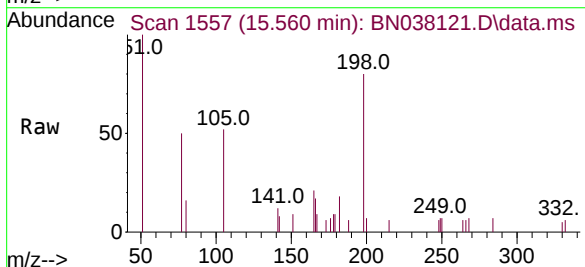
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

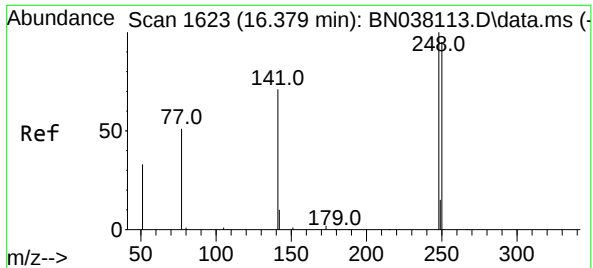
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.1	8.6	13.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.394 ng
RT: 15.560 min Scan# 1557
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion	Ratio	Lower	Upper
198	100		
51	124.4	88.9	133.3
105	64.7	49.2	73.8

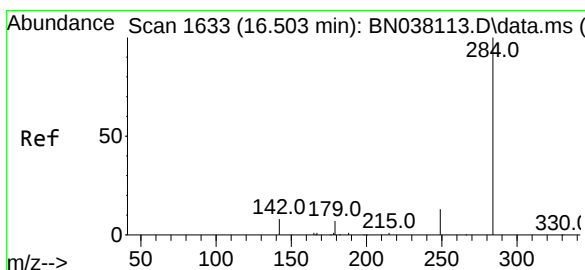
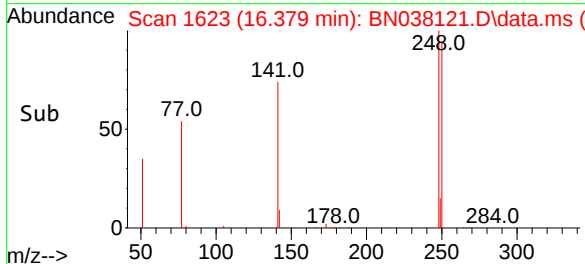
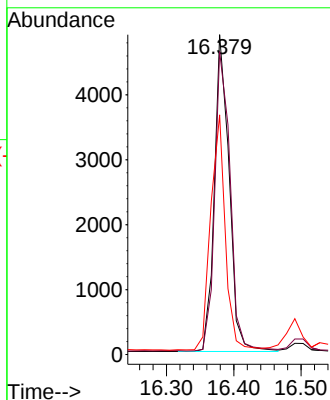
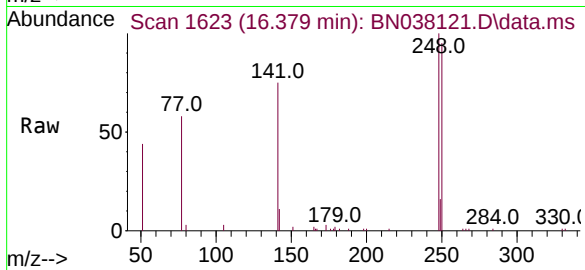




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.379 min Scan# 1623
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

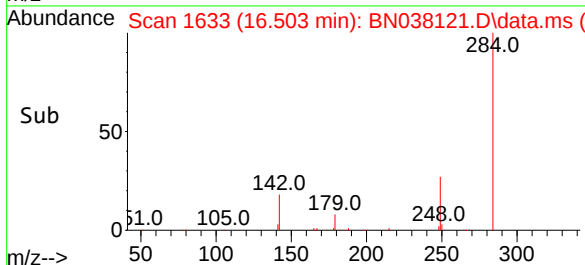
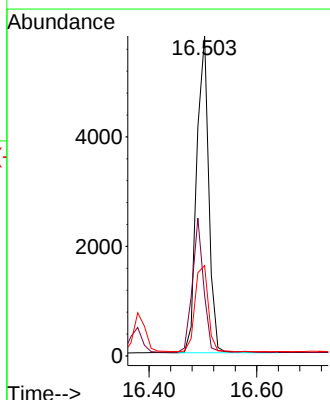
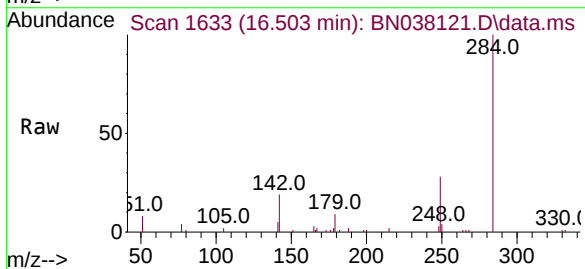
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

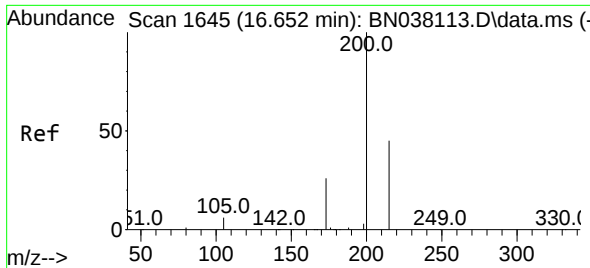
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.7	76.2	114.2
141	74.9	57.6	86.4



#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.503 min Scan# 1633
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.5	45.7
249	30.0	23.5	35.3

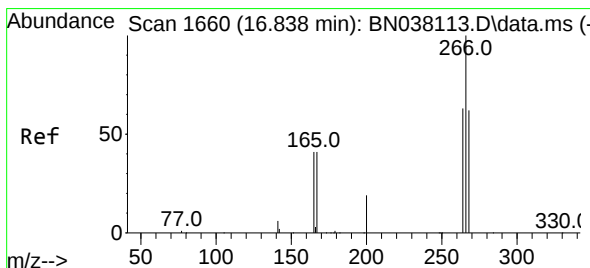
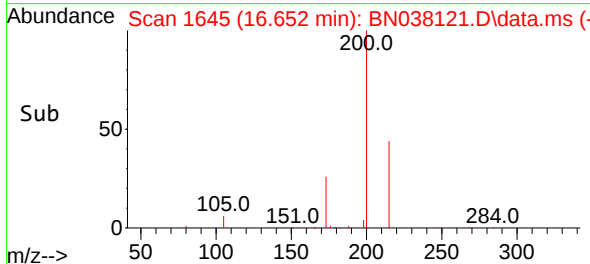
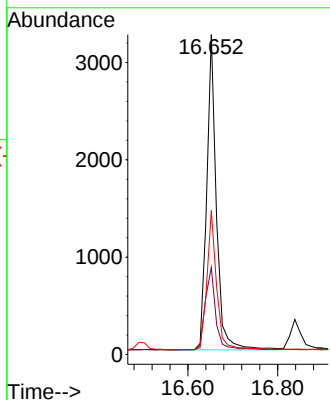
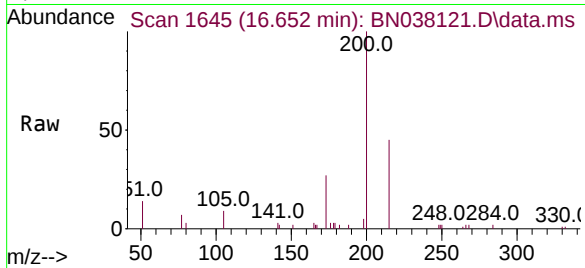




#23
Atrazine
Concen: 0.337 ng
RT: 16.652 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

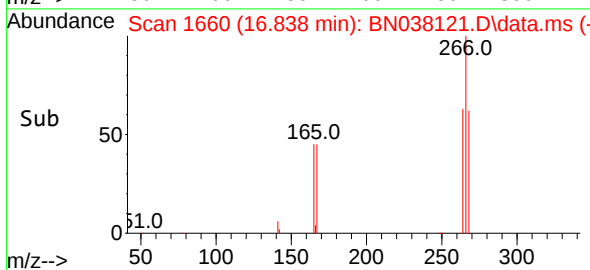
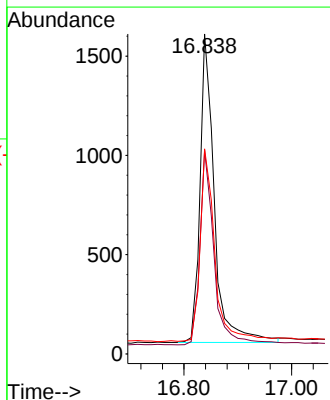
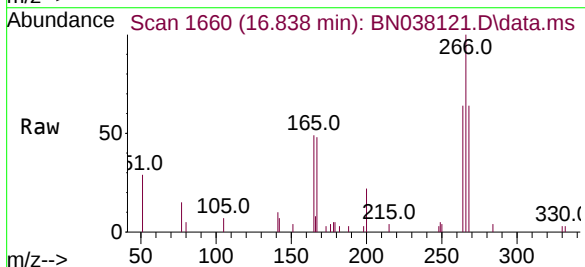
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

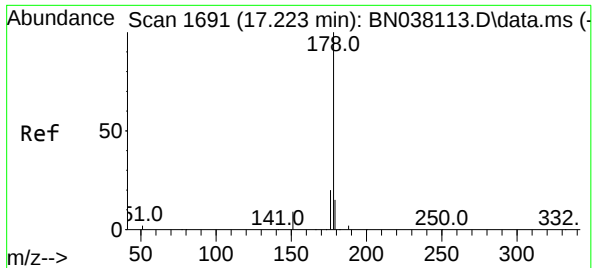
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.2	21.4	32.2
215	45.0	36.7	55.1



#24
Pentachlorophenol
Concen: 0.297 ng
RT: 16.838 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.3	73.9
268	65.7	50.6	75.8

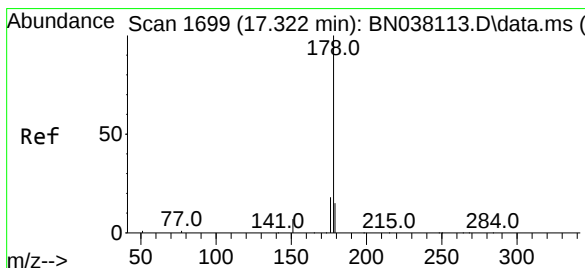
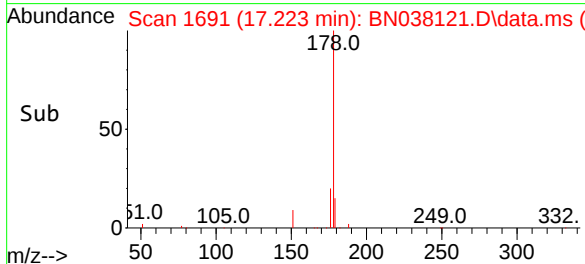
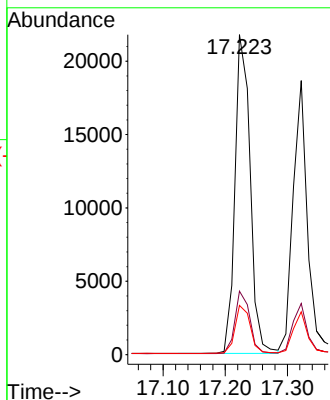
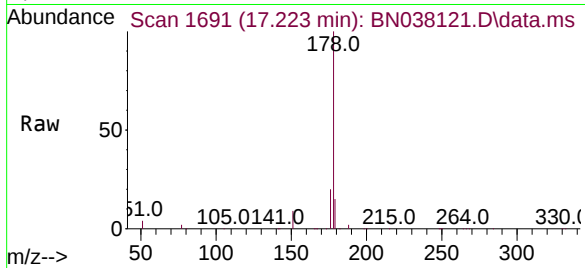




#25
Phenanthrene
Concen: 0.385 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

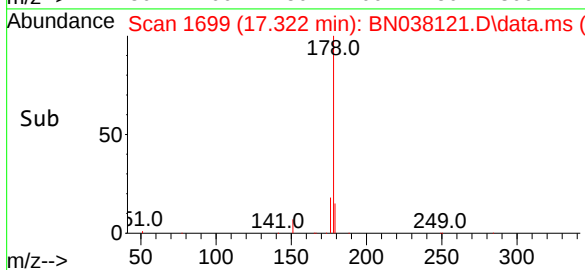
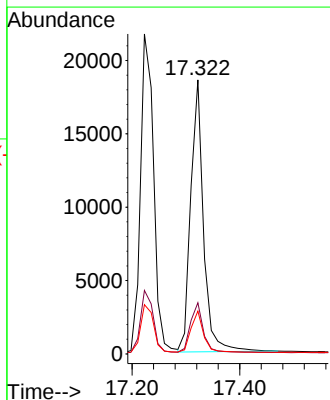
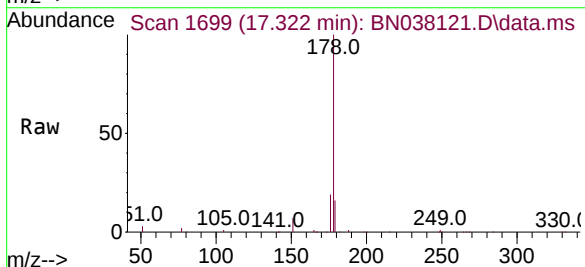
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

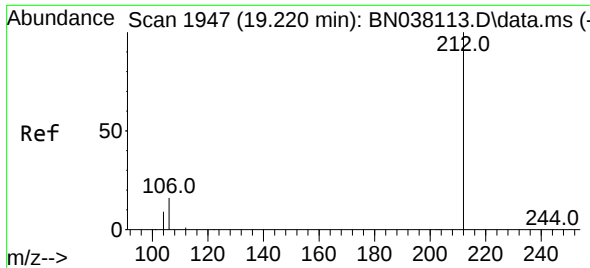
Tgt Ion:178 Resp: 36707
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.367 ng
RT: 17.322 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion:178 Resp: 30573
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.2 11.8 17.8

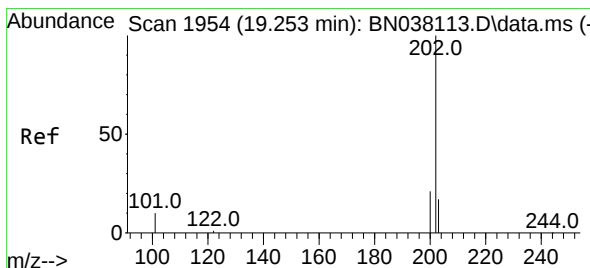
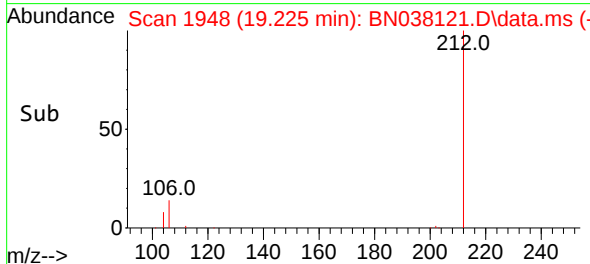
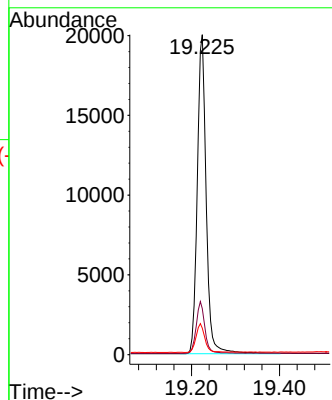
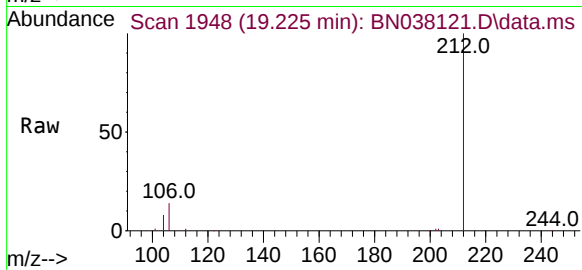




#27
Fluoranthene-d10
Concen: 0.372 ng
RT: 19.225 min Scan# 1947
Delta R.T. 0.005 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

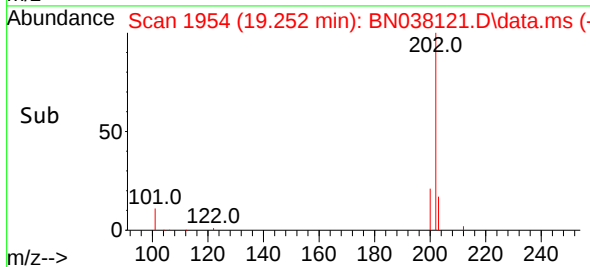
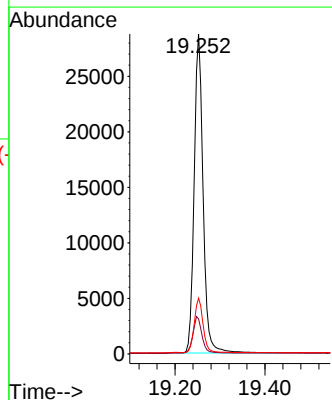
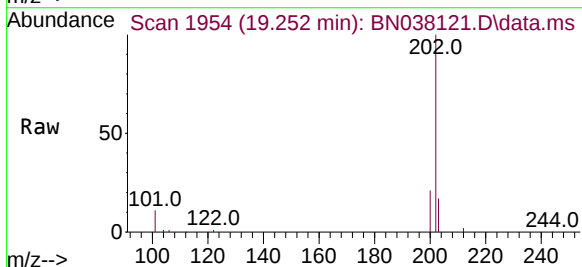
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

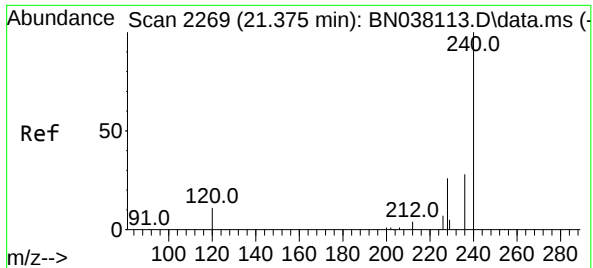
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.6	19.0
104	9.0	7.1	10.7



#28
Fluoranthene
Concen: 0.374 ng
RT: 19.252 min Scan# 1954
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.4	14.2
203	16.8	13.4	20.2





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038121.D

Acq: 30 Oct 2025 10:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

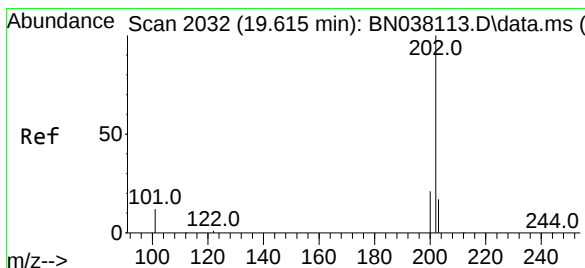
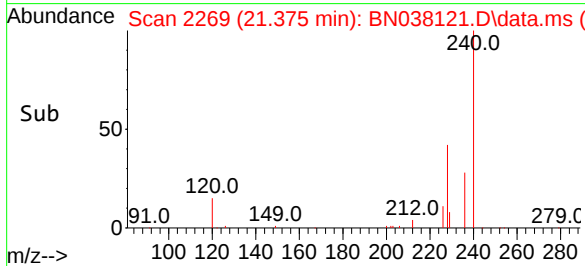
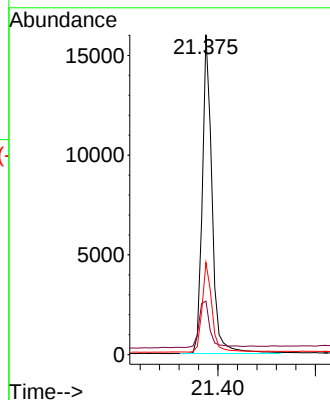
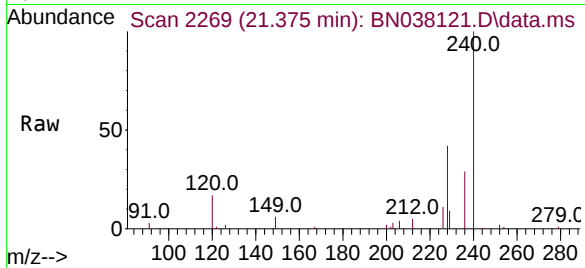
Tgt Ion:240 Resp: 22293

Ion Ratio Lower Upper

240 100

120 16.7 10.7 16.1#

236 28.8 23.1 34.7



#30

Pyrene

Concen: 0.387 ng

RT: 19.615 min Scan# 2032

Delta R.T. 0.005 min

Lab File: BN038121.D

Acq: 30 Oct 2025 10:01

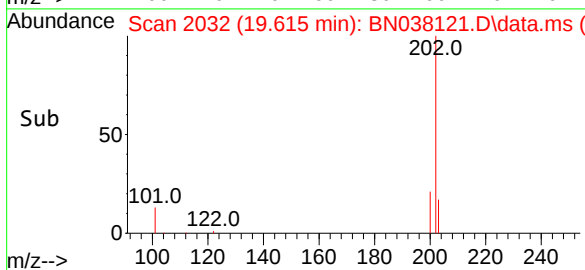
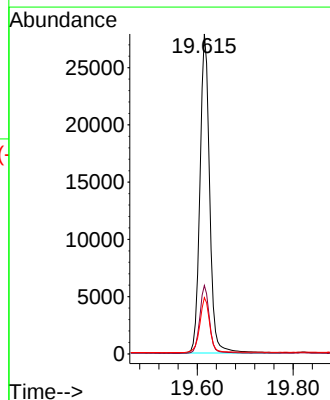
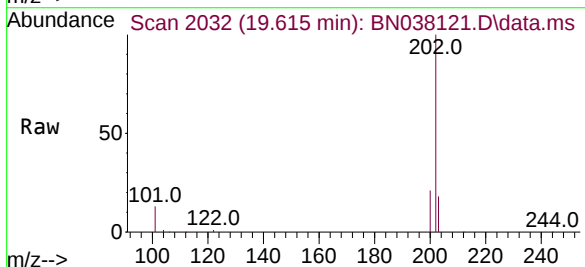
Tgt Ion:202 Resp: 38930

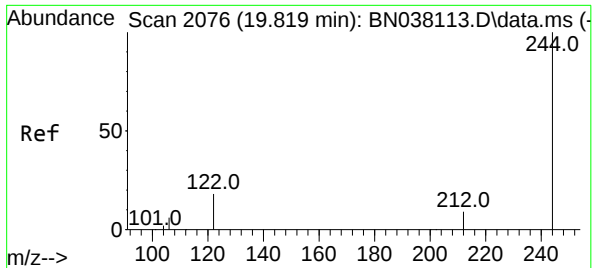
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.6 14.2 21.2

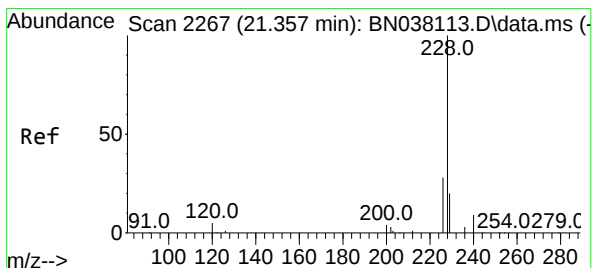
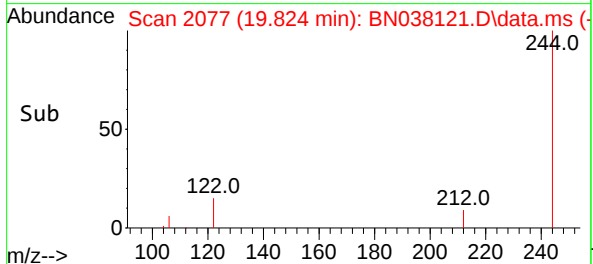
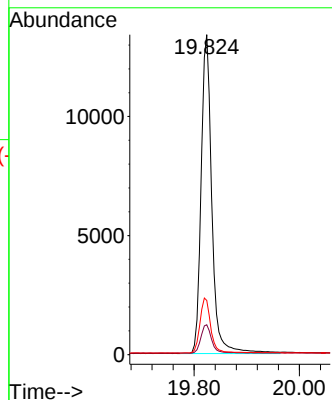
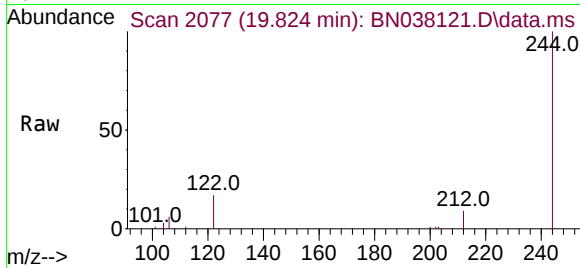




#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.824 min Scan# 2076
Delta R.T. 0.005 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

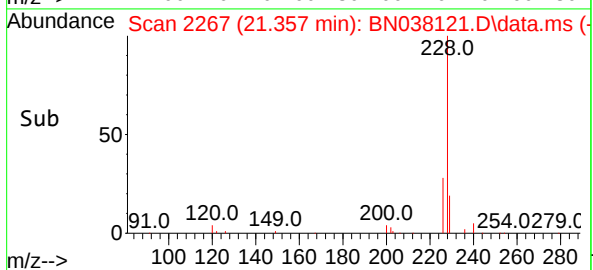
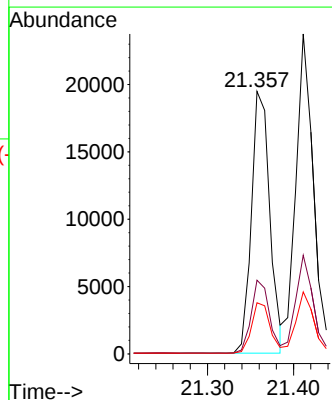
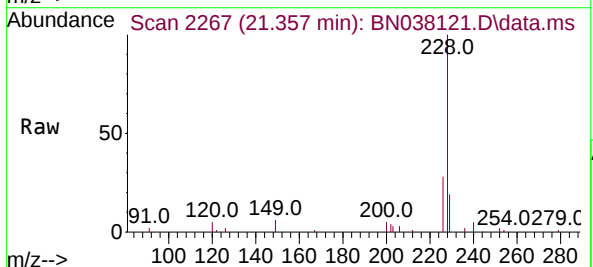
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

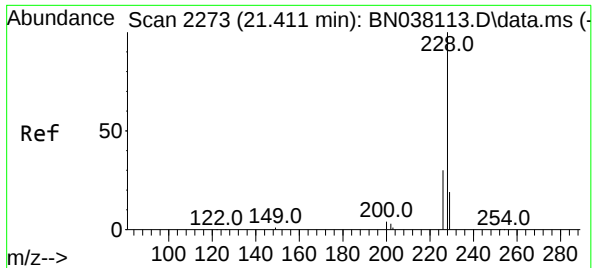
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.8	11.6
122	16.9	15.2	22.8



#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.357 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.2	33.4
229	19.5	15.8	23.8

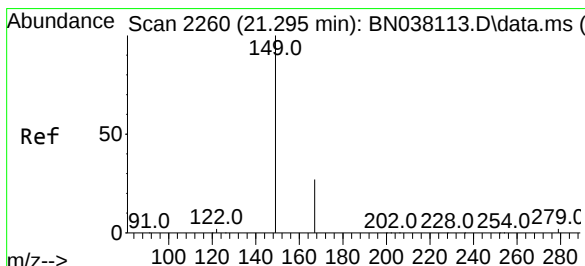
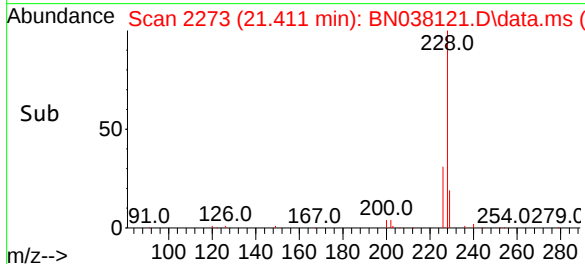
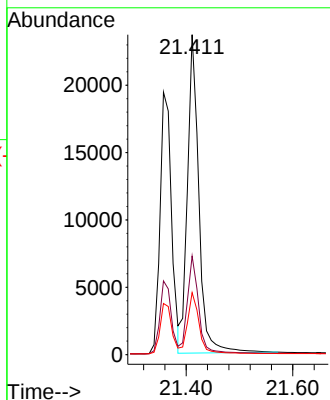
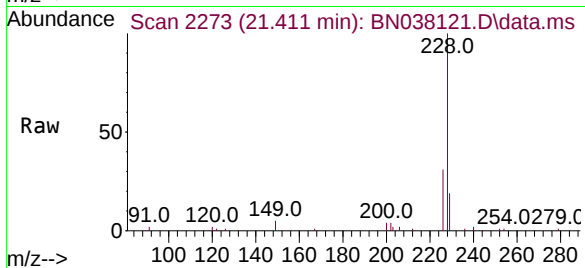




#33
Chrysene
Concen: 0.405 ng
RT: 21.411 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

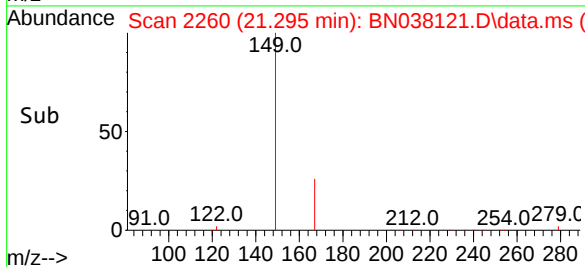
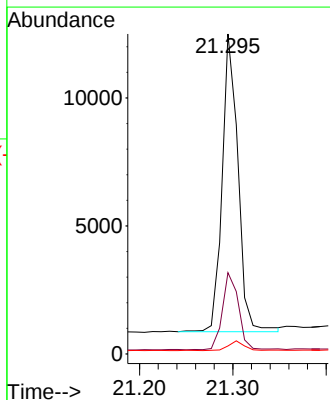
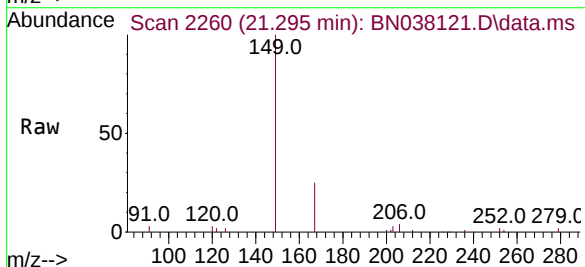
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

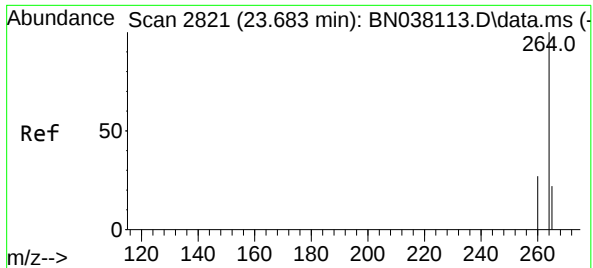
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.3	36.5
229	19.4	15.7	23.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.329 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.1	31.7
279	3.2	2.9	4.3

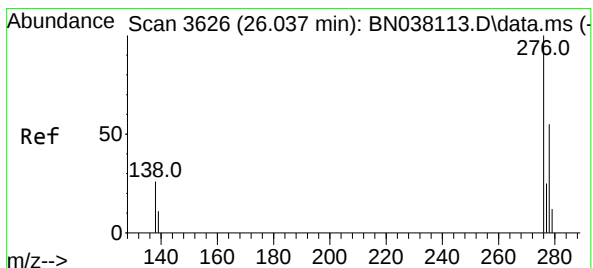
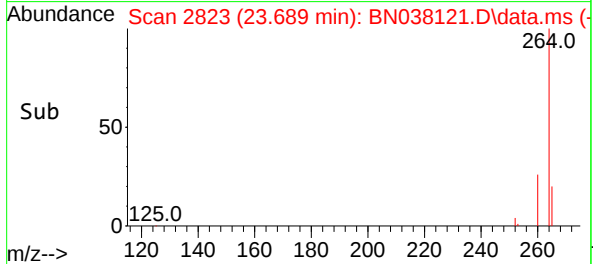
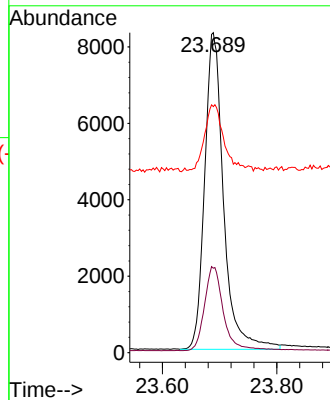
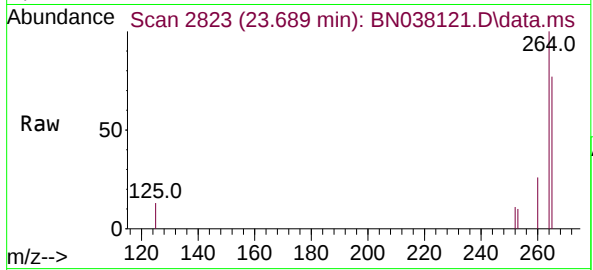




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.689 min Scan# 2821
Delta R.T. 0.009 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

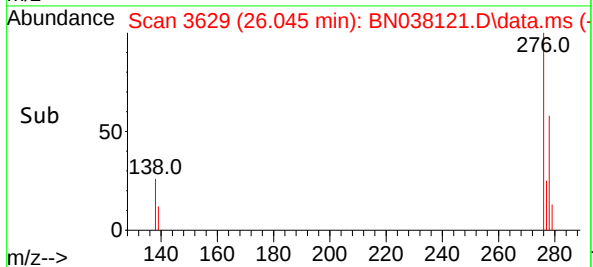
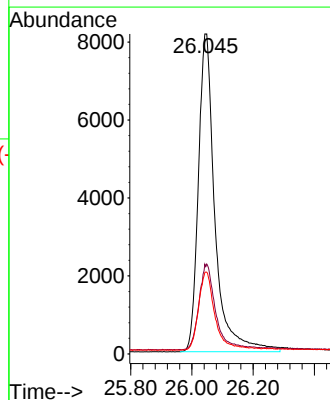
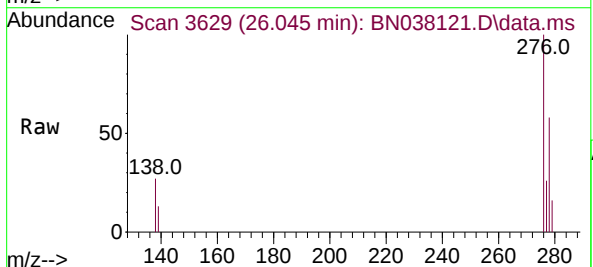
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

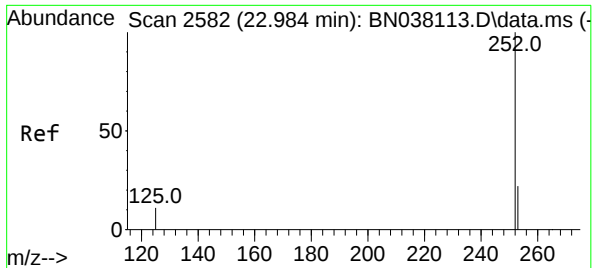
Tgt Ion:264 Resp: 19014
Ion Ratio Lower Upper
264 100
260 26.4 21.8 32.8
265 76.9 68.6 102.8



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.393 ng
RT: 26.045 min Scan# 3629
Delta R.T. 0.012 min
Lab File: BN038121.D
Acq: 30 Oct 2025 10:01

Tgt Ion:276 Resp: 30735
Ion Ratio Lower Upper
276 100
138 27.0 21.4 32.0
277 24.3 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.990 min Scan# 2582

Delta R.T. 0.009 min

Lab File: BN038121.D

Acq: 30 Oct 2025 10:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

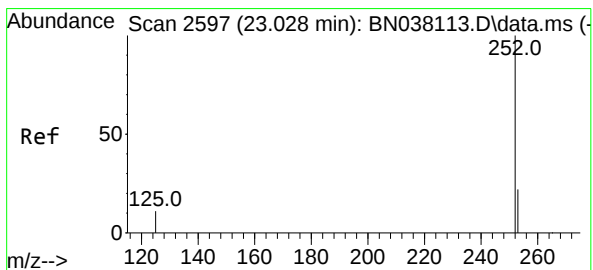
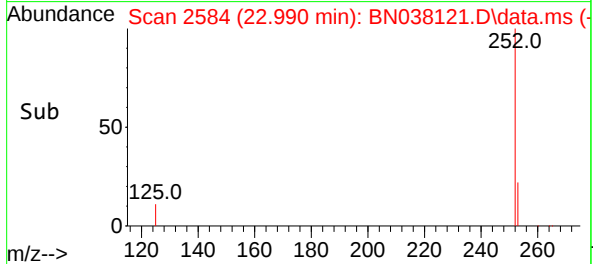
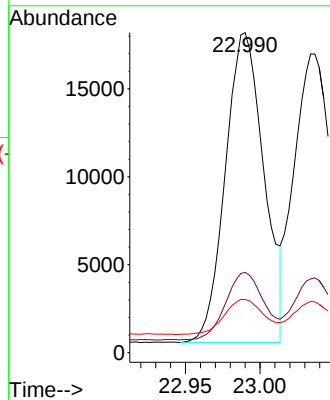
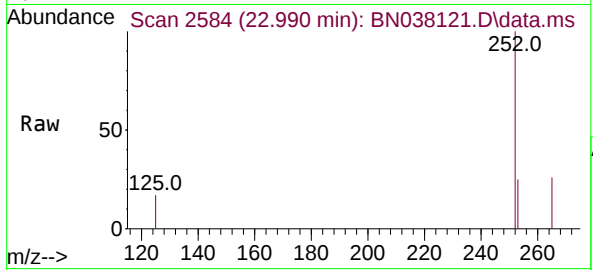
Tgt Ion:252 Resp: 31713

Ion Ratio Lower Upper

252 100

253 25.1 20.9 31.3

125 16.6 14.1 21.1



#38

Benzo(k)fluoranthene

Concen: 0.392 ng

RT: 23.034 min Scan# 2599

Delta R.T. 0.006 min

Lab File: BN038121.D

Acq: 30 Oct 2025 10:01

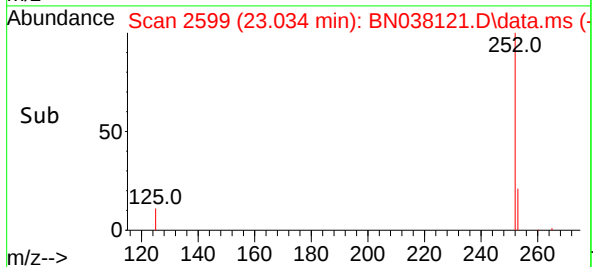
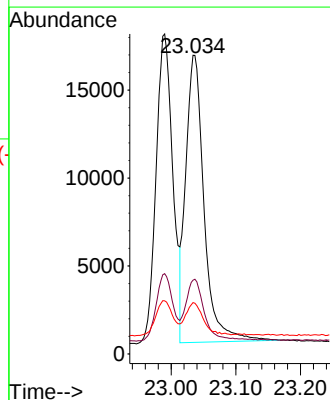
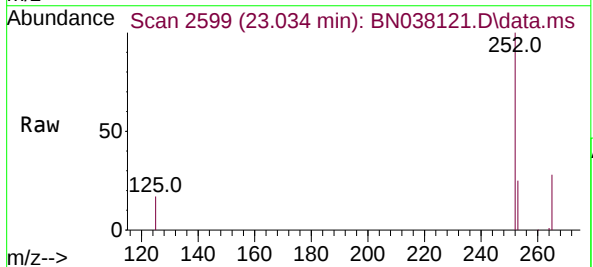
Tgt Ion:252 Resp: 32082

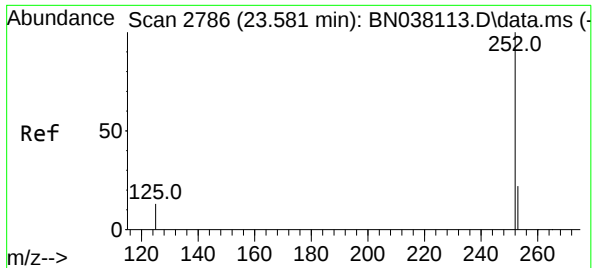
Ion Ratio Lower Upper

252 100

253 24.7 21.2 31.8

125 17.2 14.6 22.0





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.586 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038121.D

Acq: 30 Oct 2025 10:01

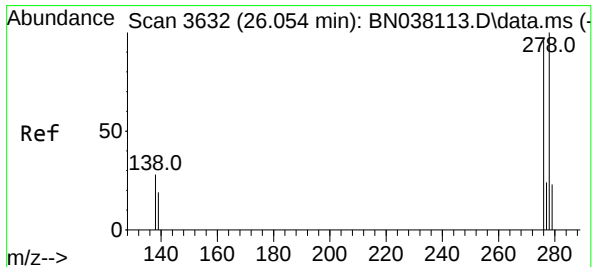
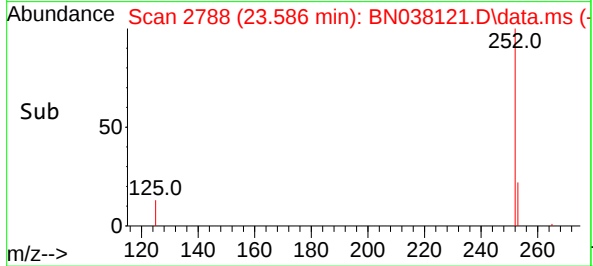
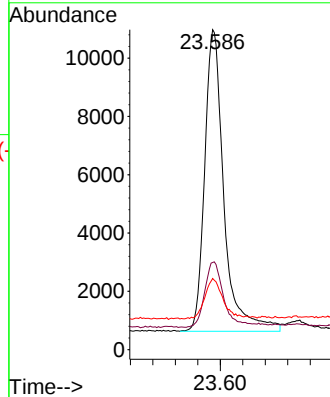
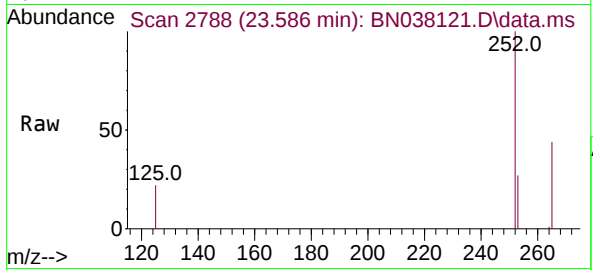
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	24588
Ion Ratio	Lower	Upper	
252	100		
253	27.2	23.1	34.7
125	22.2	18.6	28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.385 ng

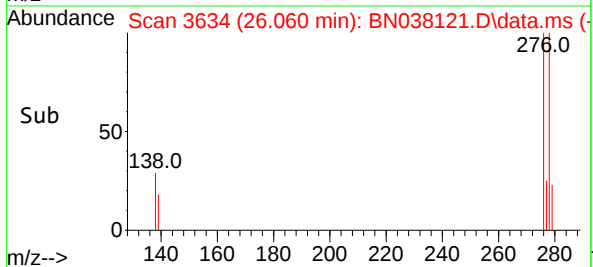
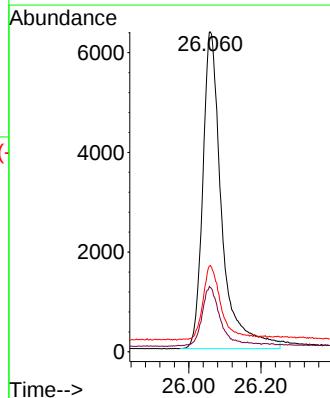
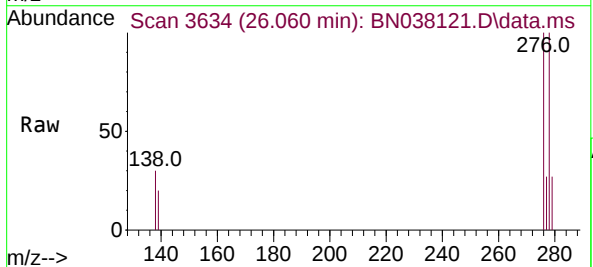
RT: 26.060 min Scan# 3634

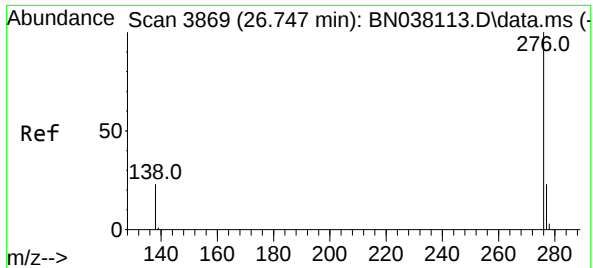
Delta R.T. 0.012 min

Lab File: BN038121.D

Acq: 30 Oct 2025 10:01

Tgt Ion:	278	Resp:	23122
Ion Ratio	Lower	Upper	
278	100		
139	20.1	17.6	26.4
279	27.0	22.6	33.8





#41

Benzo(g,h,i)perylene

Concen: 0.403 ng

RT: 26.759 min Scan# 38

Delta R.T. 0.009 min

Lab File: BN038121.D

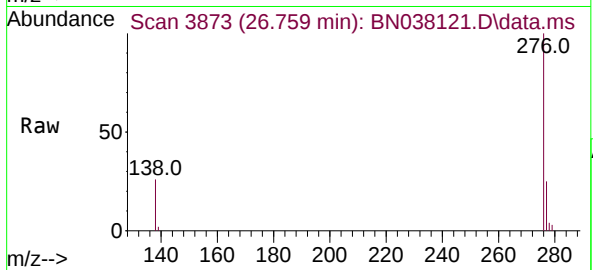
Acq: 30 Oct 2025 10:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



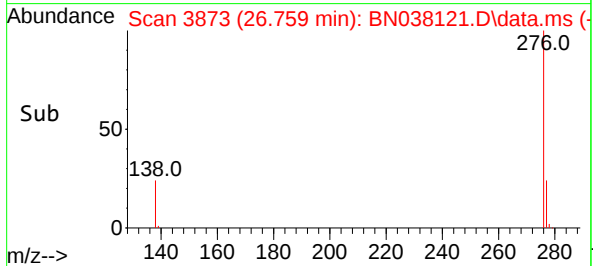
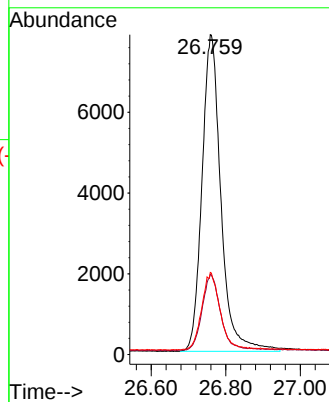
Tgt Ion:276 Resp: 27636

Ion Ratio Lower Upper

276 100

277 25.0 19.7 29.5

138 25.7 20.2 30.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
Data File : BN038121.D
Acq On : 30 Oct 2025 10:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 30 10:54:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2	1,4-Dioxane	0.413	0.414	-0.2	101	0.00
3	n-Nitrosodimethylamine	0.532	0.500	6.0	96	0.00
4 S	2-Fluorophenol	0.942	0.864	8.3	93	0.00
5 S	Phenol-d6	1.148	1.032	10.1	94	0.00
6	bis(2-Chloroethyl)ether	1.128	1.122	0.5	103	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	101	0.01
8 S	Nitrobenzene-d5	0.323	0.305	5.6	99	0.00
9	Naphthalene	1.102	1.086	1.5	102	0.00
10	Hexachlorobutadiene	0.186	0.191	-2.7	103	0.00
11 SURR	2-Methylnaphthalene-d10	0.571	0.543	4.9	100	0.00
12	2-Methylnaphthalene	0.735	0.707	3.8	101	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	100	0.01
14 S	2,4,6-Tribromophenol	0.165	0.129	21.8	87	0.00
15 S	2-Fluorobiphenyl	1.602	1.629	-1.7	103	0.01
16	Acenaphthylene	1.811	1.716	5.2	100	0.00
17	Acenaphthene	1.267	1.207	4.7	100	0.00
18	Fluorene	1.661	1.611	3.0	101	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.055	0.040	27.3#	90	0.00
21	4-Bromophenyl-phenylether	0.262	0.249	5.0	101	0.00
22	Hexachlorobenzene	0.298	0.299	-0.3	102	0.00
23	Atrazine	0.192	0.162	15.6	94	0.00
24	Pentachlorophenol	0.128	0.095	25.8#	90	0.00
25	Phenanthrene	1.270	1.224	3.6	102	0.00
26	Anthracene	1.111	1.019	8.3	99	0.00
27 SURR	Fluoranthene-d10	1.009	0.937	7.1	100	0.00
28	Fluoranthene	1.419	1.327	6.5	100	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	104	0.00
30	Pyrene	1.806	1.746	3.3	98	0.00
31 S	Terphenyl-d14	0.869	0.849	2.3	101	0.00
32	Benzo(a)anthracene	1.427	1.294	9.3	99	0.00
33	Chrysene	1.549	1.570	-1.4	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.752	0.618	17.8	89	0.00
35 I	Perylene-d12	1.000	1.000	0.0	106	0.00
36	Indeno(1,2,3-cd)pyrene	1.643	1.616	1.6	107	0.01
37	Benzo(b)fluoranthene	1.710	1.668	2.5	108	0.00
38	Benzo(k)fluoranthene	1.721	1.687	2.0	110	0.00
39 C	Benzo(a)pyrene	1.369	1.293	5.6	104	0.00
40	Dibenzo(a,h)anthracene	1.265	1.216	3.9	108	0.01
41	Benzo(g,h,i)perylene	1.444	1.453	-0.6	108	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
Data File : BN038121.D
Acq On : 30 Oct 2025 10:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Oct 30 10:54:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	103	0.00
2	1,4-Dioxane	0.400	0.401	-0.3	101	0.00
3	n-Nitrosodimethylamine	0.400	0.376	6.0	96	0.00
4 S	2-Fluorophenol	0.400	0.367	8.3	93	0.00
5 S	Phenol-d6	0.400	0.360	10.0	94	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	103	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	101	0.01
8 S	Nitrobenzene-d5	0.400	0.377	5.8	99	0.00
9	Naphthalene	0.400	0.394	1.5	102	0.00
10	Hexachlorobutadiene	0.400	0.410	-2.5	103	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.380	5.0	100	0.00
12	2-Methylnaphthalene	0.400	0.385	3.8	101	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	100	0.01
14 S	2,4,6-Tribromophenol	0.400	0.313	21.8	87	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	103	0.01
16	Acenaphthylene	0.400	0.379	5.3	100	0.00
17	Acenaphthene	0.400	0.381	4.8	100	0.00
18	Fluorene	0.400	0.388	3.0	101	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.394	1.5	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	101	0.00
22	Hexachlorobenzene	0.400	0.401	-0.3	102	0.00
23	Atrazine	0.400	0.337	15.8	94	0.00
24	Pentachlorophenol	0.400	0.297	25.8#	90	0.00
25	Phenanthrene	0.400	0.385	3.8	102	0.00
26	Anthracene	0.400	0.367	8.3	99	0.00
27 SURR	Fluoranthene-d10	0.400	0.372	7.0	100	0.00
28	Fluoranthene	0.400	0.374	6.5	100	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	104	0.00
30	Pyrene	0.400	0.387	3.3	98	0.00
31 S	Terphenyl-d14	0.400	0.391	2.3	101	0.00
32	Benzo(a)anthracene	0.400	0.363	9.3	99	0.00
33	Chrysene	0.400	0.405	-1.3	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.329	17.8	89	0.00
35 I	Perylene-d12	0.400	0.400	0.0	106	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.393	1.8	107	0.01
37	Benzo(b)fluoranthene	0.400	0.390	2.5	108	0.00
38	Benzo(k)fluoranthene	0.400	0.392	2.0	110	0.00
39 C	Benzo(a)pyrene	0.400	0.378	5.5	104	0.00
40	Dibenzo(a,h)anthracene	0.400	0.385	3.8	108	0.01
41	Benzo(g,h,i)perylene	0.400	0.403	-0.8	108	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



QC SAMPLE DATA

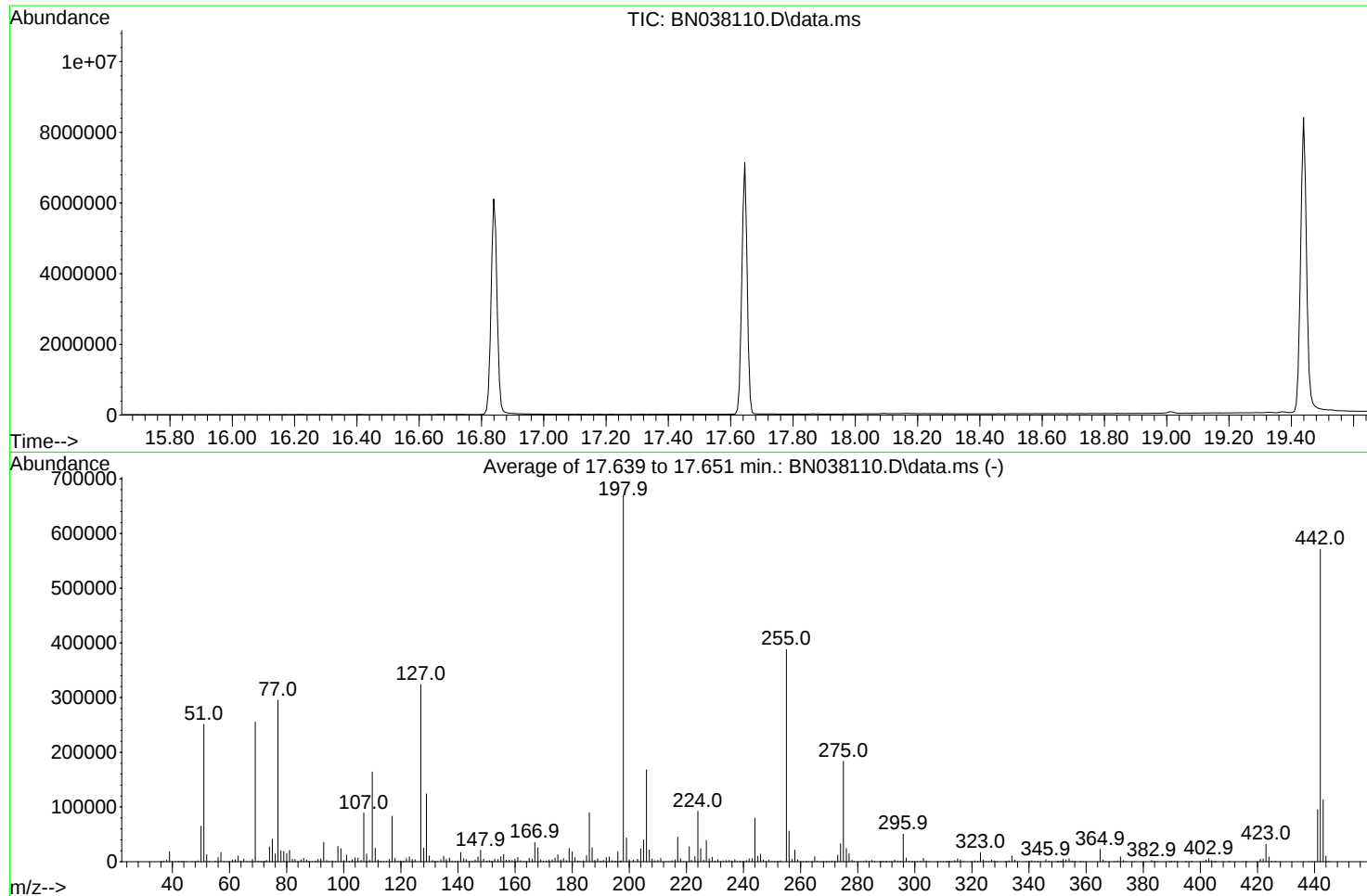
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038110.D
Acq On : 28 Oct 2025 12:05
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-BN102825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 29 13:09:46 2025



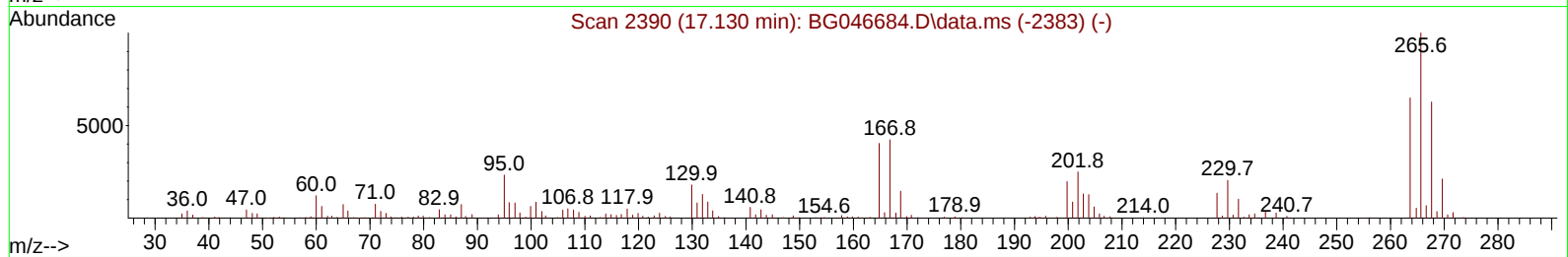
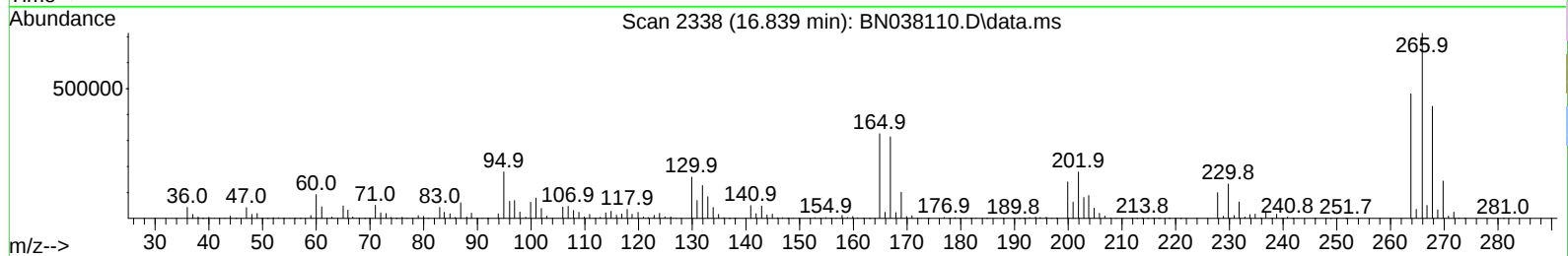
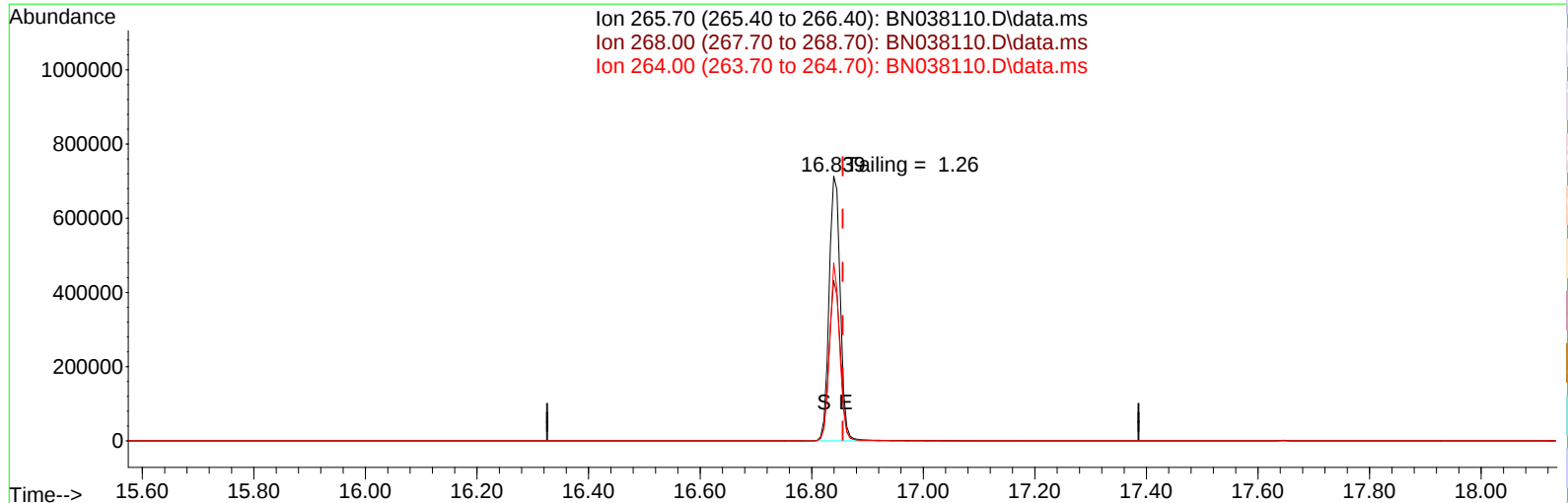
AutoFind: Scans 2474, 2475, 2476; Background Corrected with Scan 2467

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	4477	PASS
69	69	100	100	100.0	255398	PASS
70	69	0.00	2	0.5	1371	PASS
197	198	0.00	2	0.2	1550	PASS
198	198	100	100	100.0	669440	PASS
199	198	5	9	6.5	43461	PASS
365	198	1	100	3.4	22528	PASS
441	443	0.01	150	83.9	95293	PASS
442	442	100	100	100.0	571285	PASS
443	442	15	24	19.9	113539	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038110.D
Acq On : 28 Oct 2025 12:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 28 18:06:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 12:54:48 2025
Response via : Initial Calibration



TIC: BN038110.D\data.ms

(70) Pentachlorophenol (C)

16.839min (-0.017) 31764.46 ng

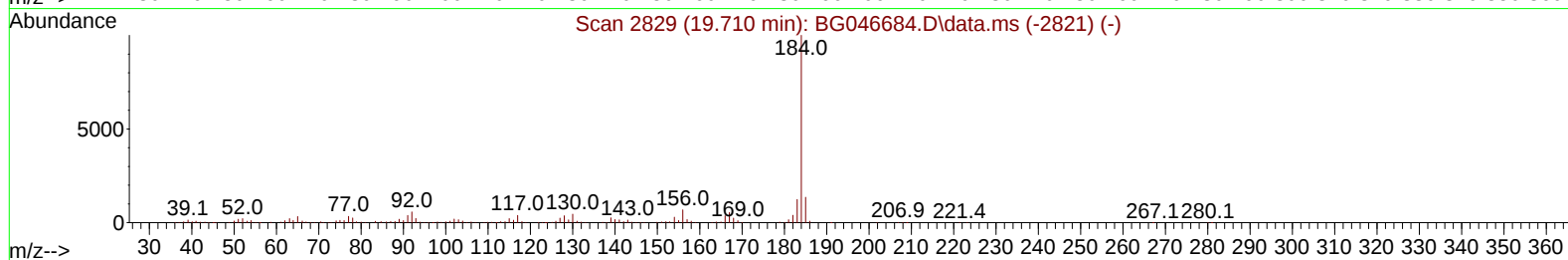
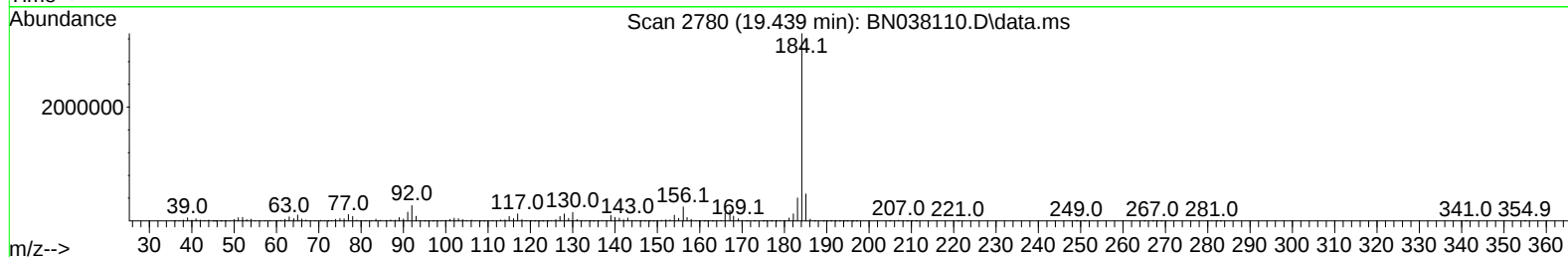
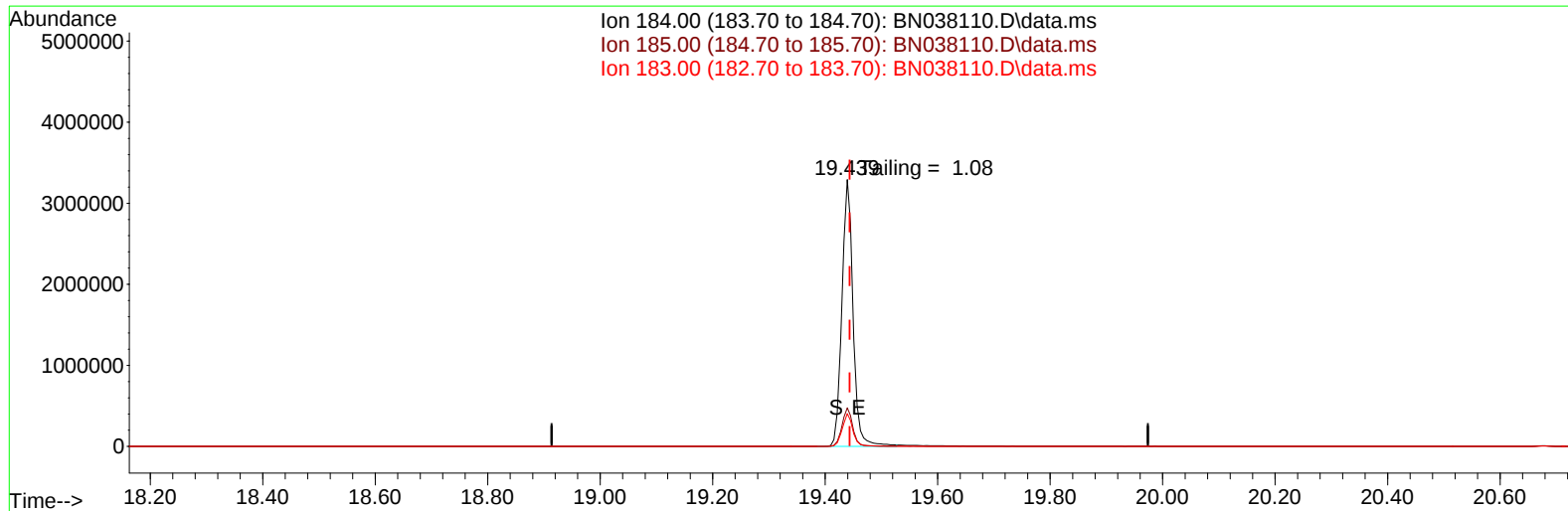
response 993628

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.51
264.00	61.60	67.24
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102825\
Data File : BN038110.D
Acq On : 28 Oct 2025 12:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 28 18:06:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 28 12:54:48 2025
Response via : Initial Calibration



TIC: BN038110.D\data.ms

(77) Benzidine

19.439min (-0.005) 0.00 ng

response 4602519

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.42
183.00	13.20	12.28
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

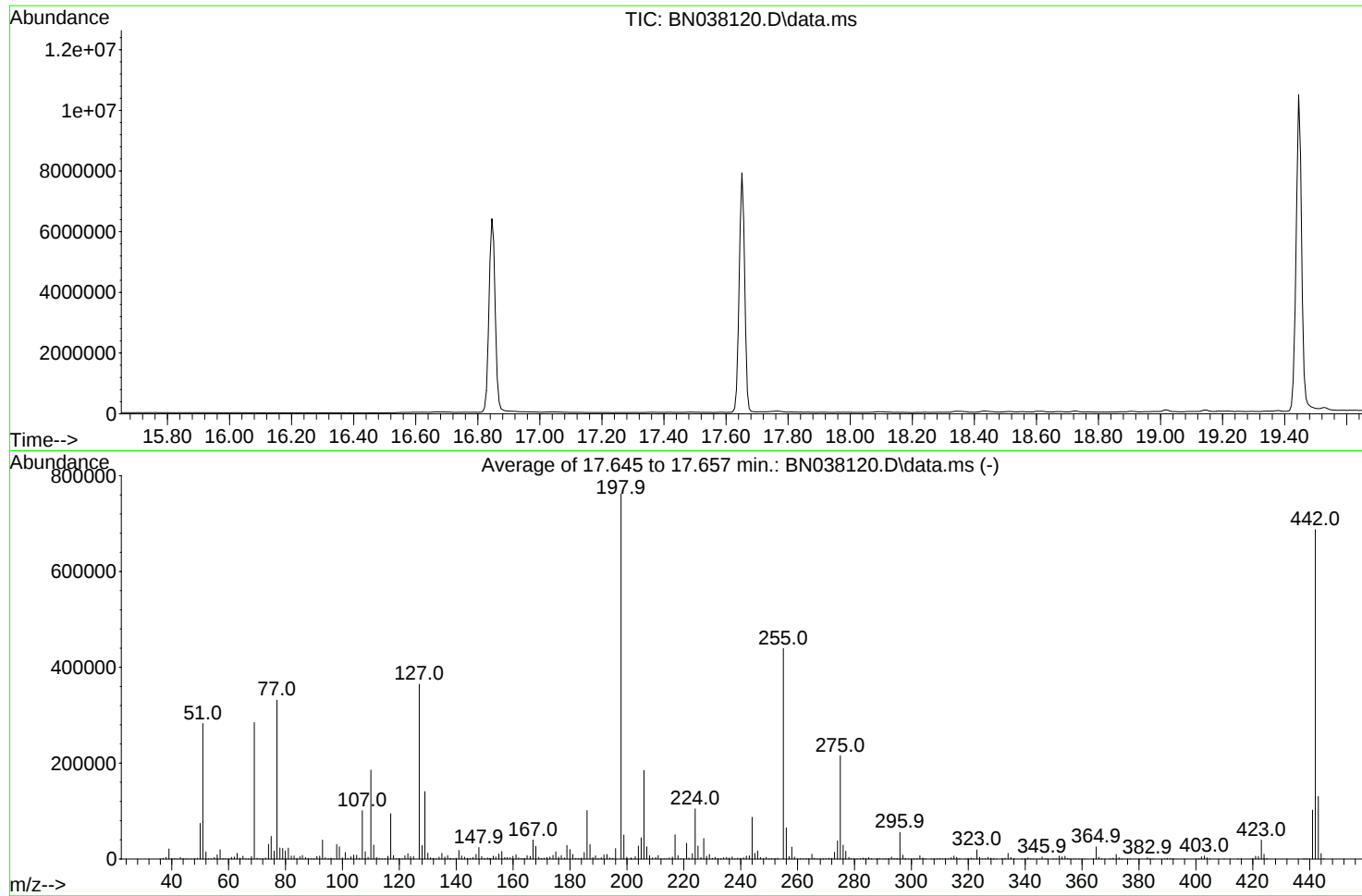
Date	Instrument Name	DFTPP Data File
10/28/2025	BNA_N	<u>BN038110.D</u>
Compound Name	Response	Retention Time
DDT	2477320	20.674
DDD	29265	20.233
DDE	1740	19.733
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
31005	2508325	1.24

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
Data File : BN038120.D
Acq On : 30 Oct 2025 09:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 29 13:09:46 2025



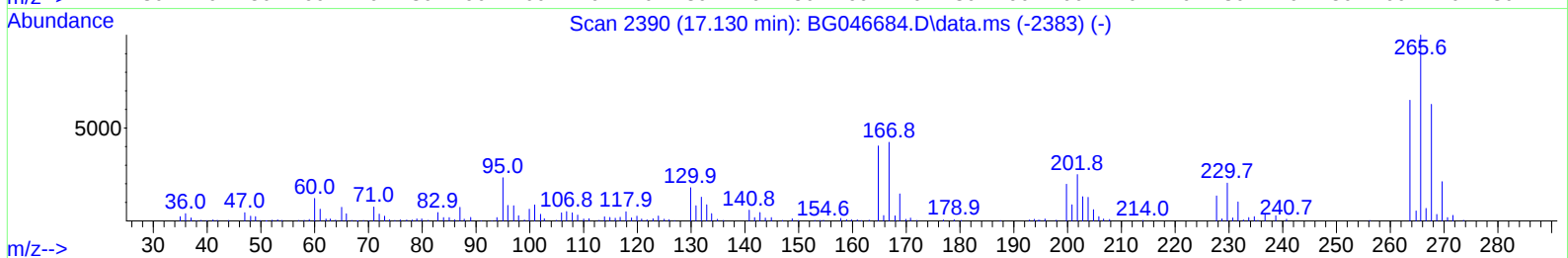
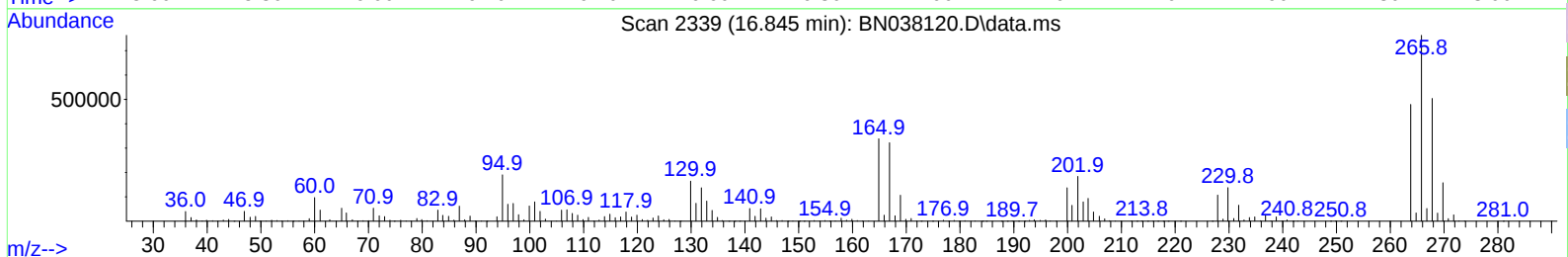
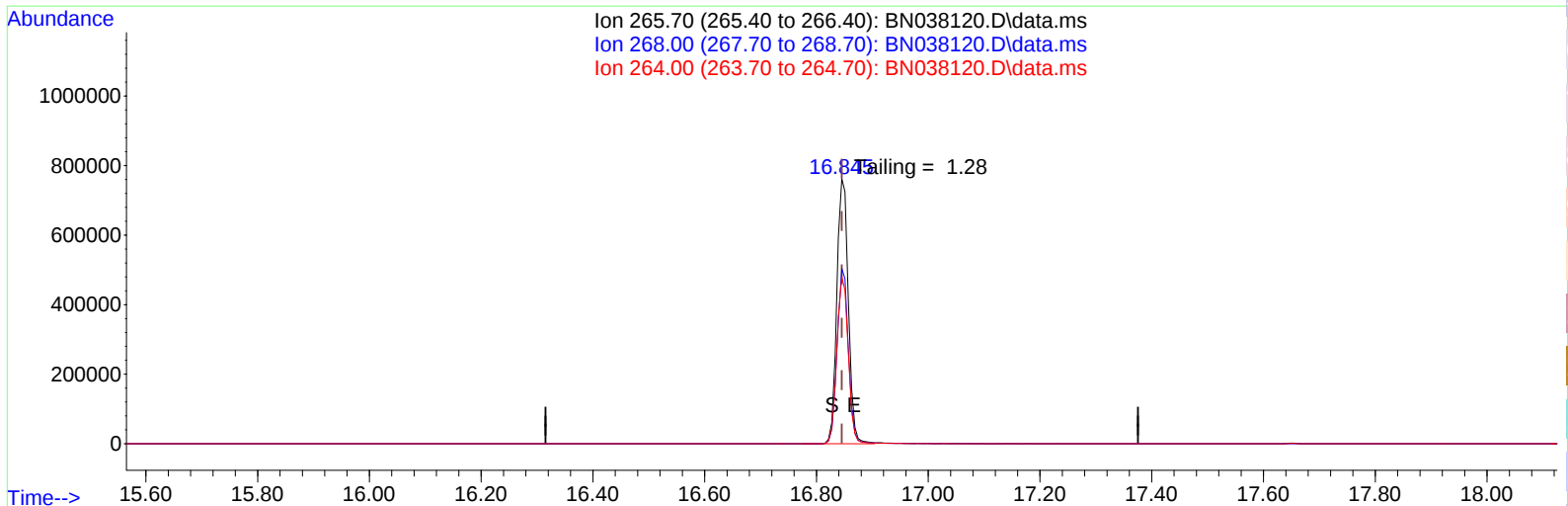
AutoFind: Scans 2475, 2476, 2477; Background Corrected with Scan 2468

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	5144	PASS
69	69	100	100	100.0	284922	PASS
70	69	0.00	2	0.6	1800	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	762155	PASS
199	198	5	9	6.6	50232	PASS
365	198	1	100	3.3	25341	PASS
441	443	0.01	150	78.2	101981	PASS
442	442	100	100	100.0	687317	PASS
443	442	15	24	19.0	130451	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
Data File : BN038120.D
Acq On : 30 Oct 2025 09:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 30 11:03:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 30 11:03:15 2025
Response via : Initial Calibration



TIC: BN038120.D\data.ms

(70) Pentachlorophenol (C)

16.845min (0.000) 277.91 ng

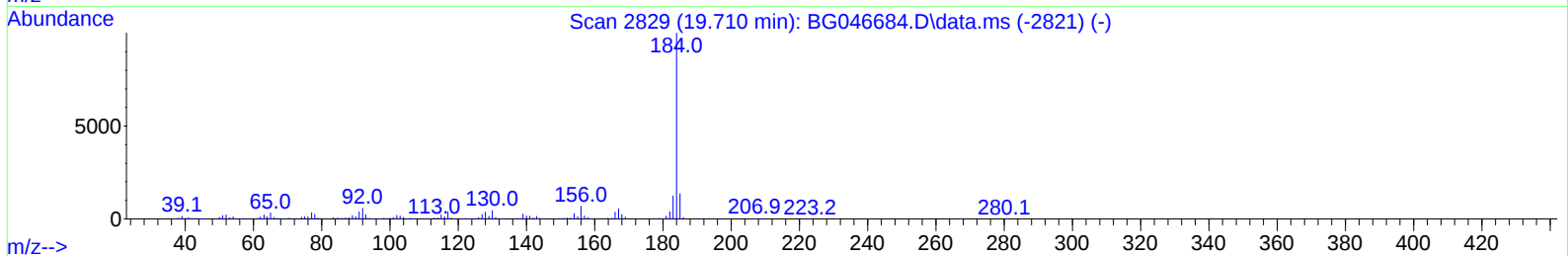
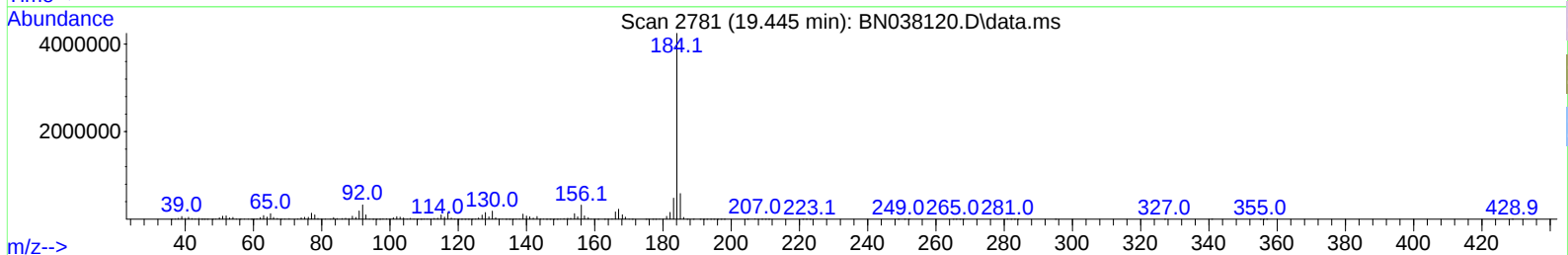
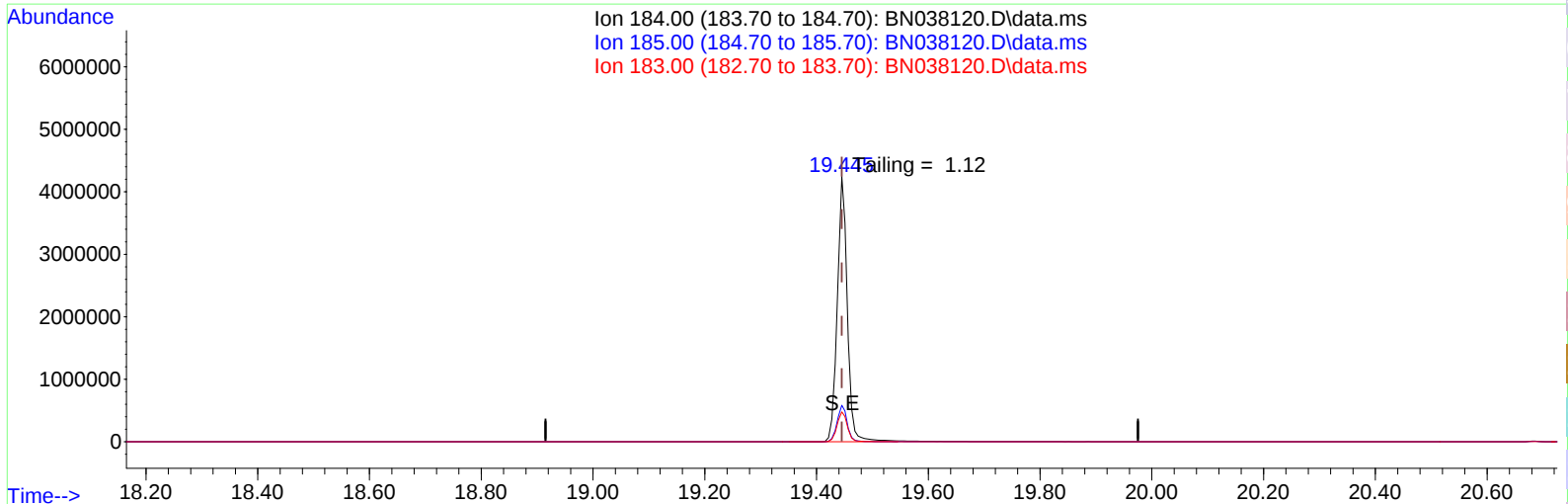
response 1092521

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.05
264.00	61.60	62.83
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
Data File : BN038120.D
Acq On : 30 Oct 2025 09:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 30 11:03:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 30 11:03:15 2025
Response via : Initial Calibration



TIC: BN038120.D\data.ms

(77) Benzidine

19.445min (0.000) 0.00 ng

response 5317002

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.82
183.00	13.20	11.31
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/30/2025	BNA_N	<u>BN038120.D</u>
Compound Name	Response	Retention Time
DDT	2793166	20.686
DDD	20273	20.245
DDE	1753	19.739
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
22026	2815192	0.78



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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Waste Water PT
Client Sample ID: PB170298BL
Lab Sample ID: PB170298BL
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL
Prep Method : 3510 Prep Date: 10/28/25 13:30

Date Collected:
Date Received:
SDG No.: Q3478
Matrix: Water
% Solid: 0
Test: SVOCMS Group5

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
91-57-6	2-Methylnaphthalene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
208-96-8	Acenaphthylene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
83-32-9	Acenaphthene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
86-73-7	Fluorene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
85-01-8	Phenanthrene	0.030	U	1	0.030	0.10	ug/L	10/30/25 10:49	PB170298
120-12-7	Anthracene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
206-44-0	Fluoranthene	0.030	U	1	0.030	0.10	ug/L	10/30/25 10:49	PB170298
129-00-0	Pyrene	0.030	U	1	0.030	0.10	ug/L	10/30/25 10:49	PB170298
56-55-3	Benzo(a)anthracene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
218-01-9	Chrysene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
205-99-2	Benzo(b)fluoranthene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
207-08-9	Benzo(k)fluoranthene	0.050	U	1	0.050	0.10	ug/L	10/30/25 10:49	PB170298
50-32-8	Benzo(a)pyrene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U	1	0.050	0.10	ug/L	10/30/25 10:49	PB170298
53-70-3	Dibenzo(a,h)anthracene	0.050	U	1	0.050	0.10	ug/L	10/30/25 10:49	PB170298
191-24-2	Benzo(g,h,i)perylene	0.040	U	1	0.040	0.10	ug/L	10/30/25 10:49	PB170298
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.33			20 - 139	83%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.33			54 - 157	83%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.36			27 - 154	89%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.41			30 - 155	101%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.45			54 - 175	113%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	9150							
1146-65-2	Naphthalene-d8	25400							
15067-26-2	Acenaphthene-d10	13000							
1517-22-2	Phenanthrene-d10	24000							
1719-03-5	Chrysene-d12	15900							
1520-96-3	Perylene-d12	14600							

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\BN103025\
Data File : BN038122.D
Acq On : 30 Oct 2025 10:49
Operator : RC/JU
Sample : PB170298BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170298BL

Quant Time: Oct 30 11:13:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	9151	0.400	ng	0.01
7) Naphthalene-d8	10.594	136	25373	0.400	ng	0.02
13) Acenaphthene-d10	14.441	164	13033	0.400	ng	0.01
19) Phenanthrene-d10	17.198	188	24037	0.400	ng	0.01
29) Chrysene-d12	21.384	240	15940	0.400	ng	0.00
35) Perylene-d12	23.695	264	14550	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.355	112	7548	0.350	ng	0.00
5) Phenol-d6	6.951	99	8193	0.312	ng	0.01
8) Nitrobenzene-d5	8.939	82	7267	0.355	ng	0.01
11) 2-Methylnaphthalene-d10	12.187	152	11971	0.330	ng	0.00
14) 2,4,6-Tribromophenol	15.944	330	1217	0.227	ng	0.01
15) 2-Fluorobiphenyl	13.062	172	21140	0.405	ng	0.01
27) Fluoranthene-d10	19.229	212	19986	0.330	ng	0.00
31) Terphenyl-d14	19.828	244	15656	0.452	ng	0.00

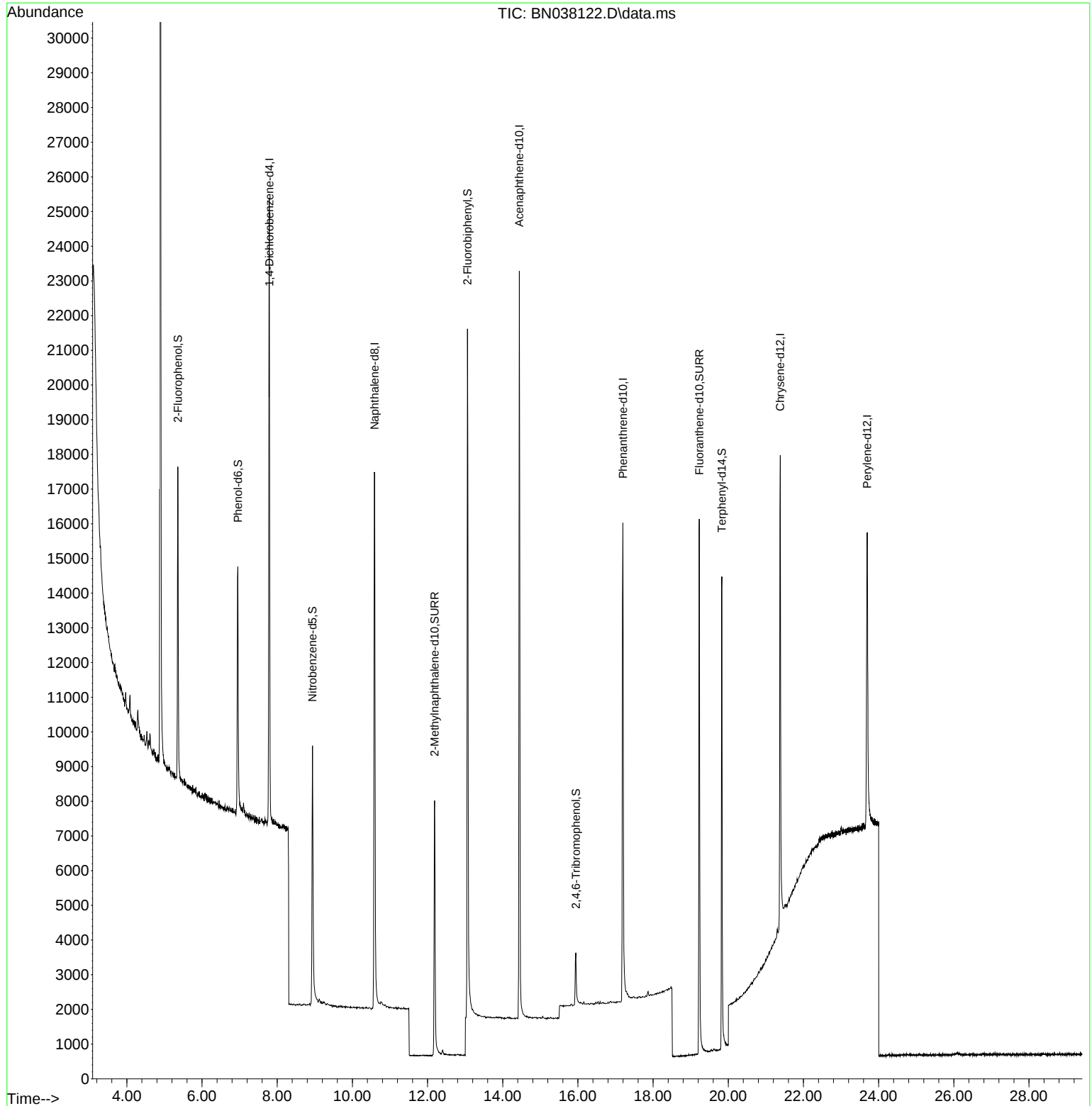
Target Compounds	Qvalue
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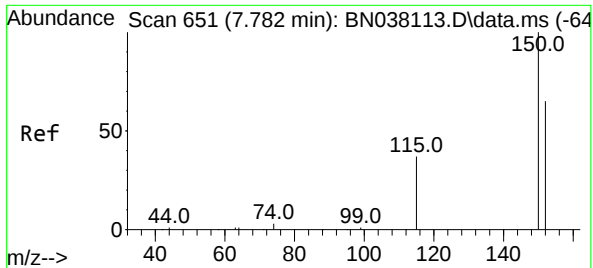
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103025\
Data File : BN038122.D
Acq On : 30 Oct 2025 10:49
Operator : RC/JU
Sample : PB170298BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170298BL

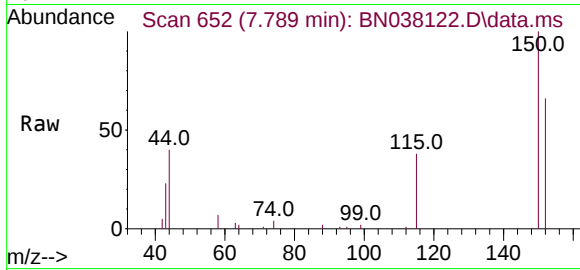
Quant Time: Oct 30 11:13:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 29 13:09:46 2025
Response via : Initial Calibration



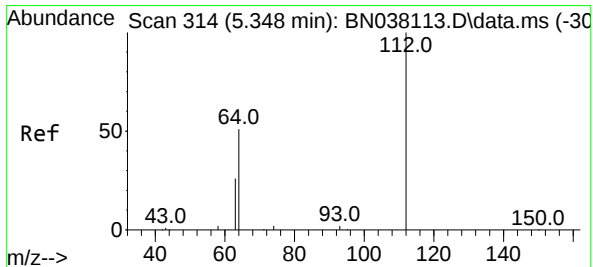
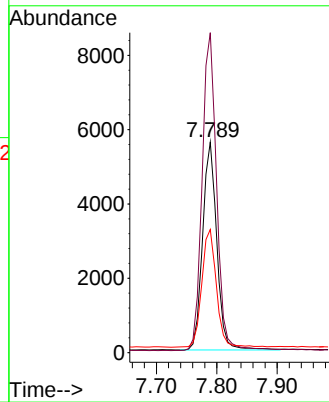
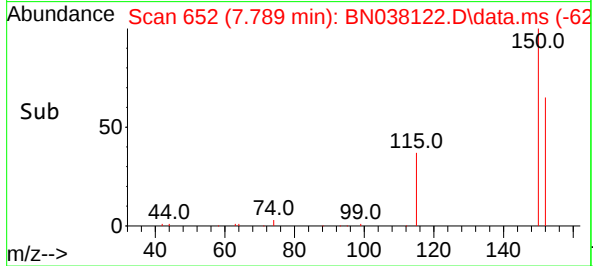


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. 0.014 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

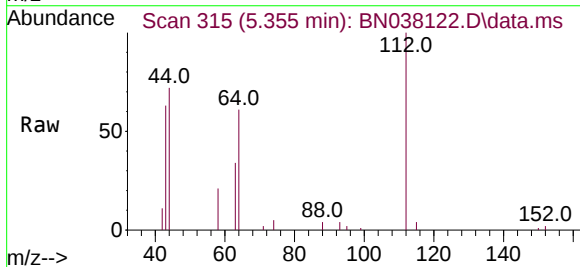
Instrument :
BNA_N
ClientSampleId :
PB170298BL



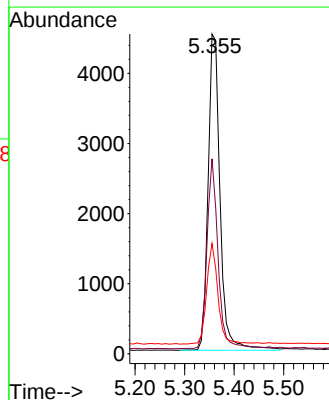
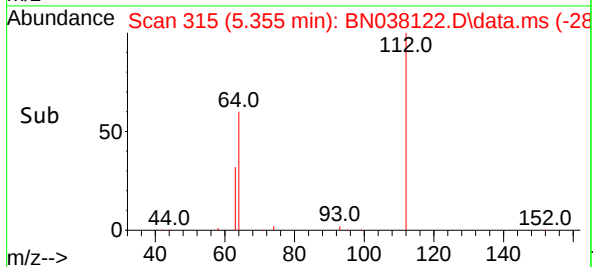
Tgt Ion:152 Resp: 9151
Ion Ratio Lower Upper
152 100
150 152.1 122.3 183.5
115 58.5 47.4 71.0

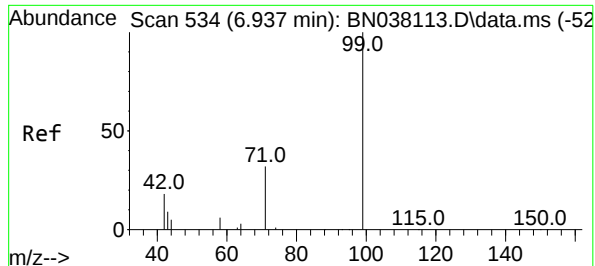


#4
2-Fluorophenol
Concen: 0.350 ng
RT: 5.355 min Scan# 315
Delta R.T. 0.007 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49



Tgt Ion:112 Resp: 7548
Ion Ratio Lower Upper
112 100
64 55.8 45.4 68.0
63 29.9 23.2 34.8

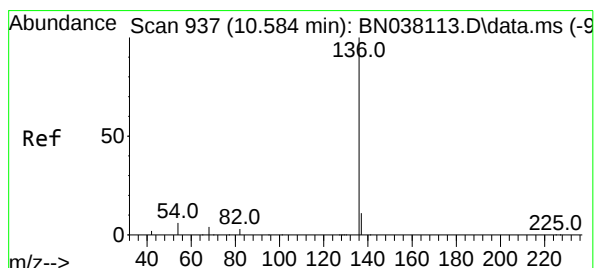
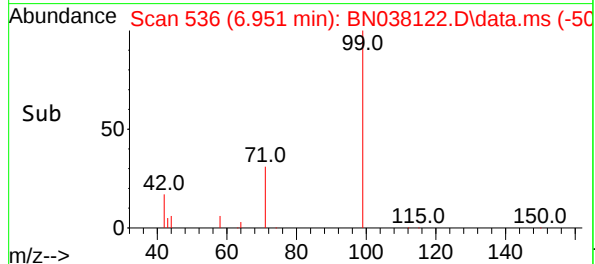
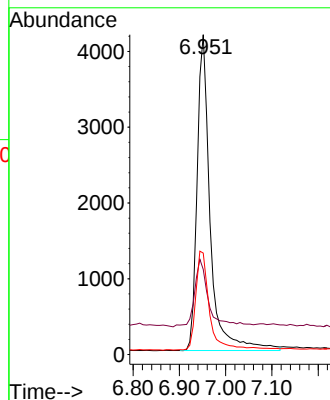
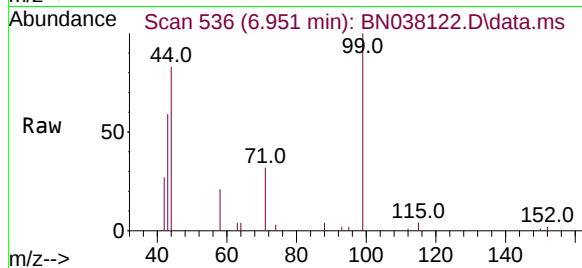




#5
Phenol-d6
Concen: 0.312 ng
RT: 6.951 min Scan# 534
Delta R.T. 0.014 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

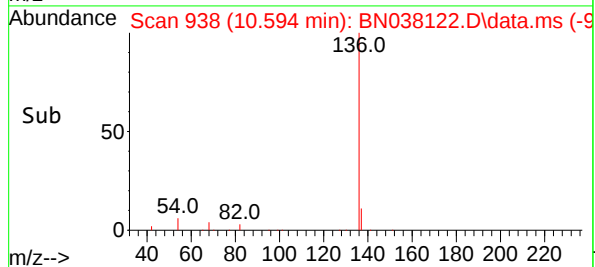
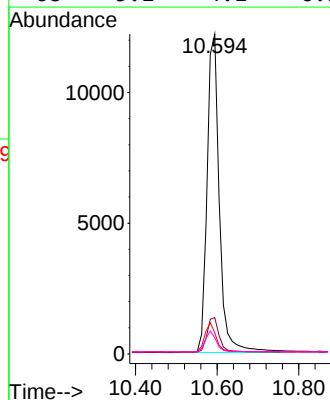
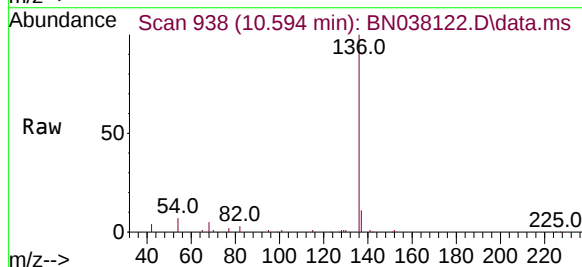
Instrument :
BNA_N
ClientSampleId :
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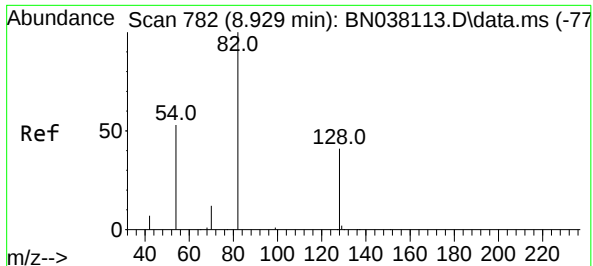
Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.9	16.6	24.8
71	33.2	25.4	38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.594 min Scan# 938
Delta R.T. 0.021 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.6	5.2	7.8
68	5.1	4.1	6.1

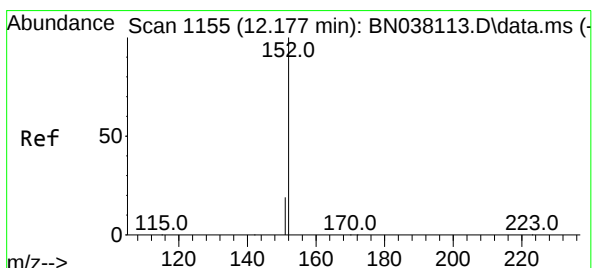
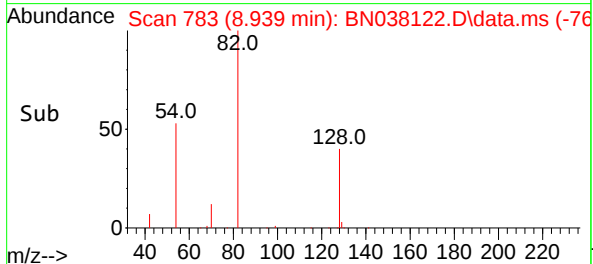
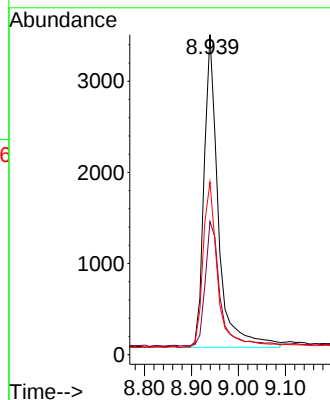
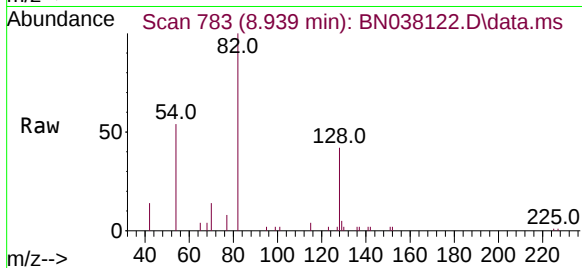




#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.939 min Scan# 782
Delta R.T. 0.011 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

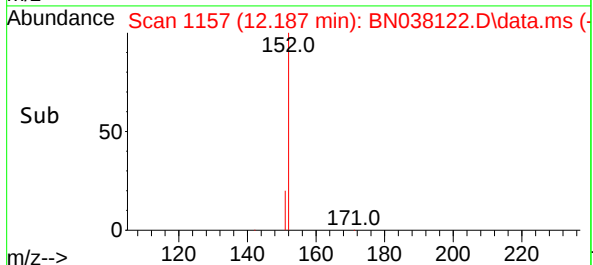
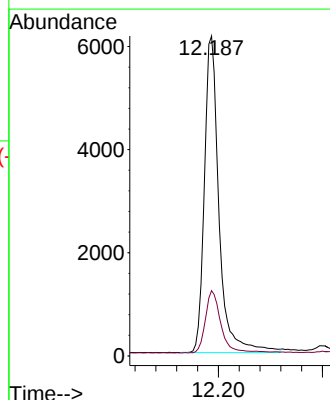
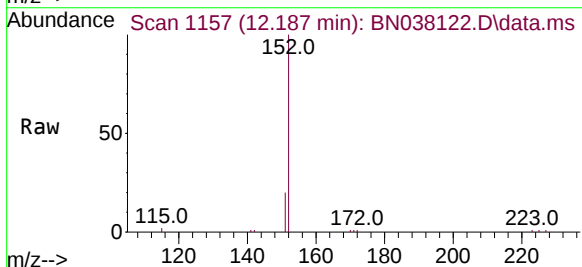
Instrument :
BNA_N
ClientSampleId :
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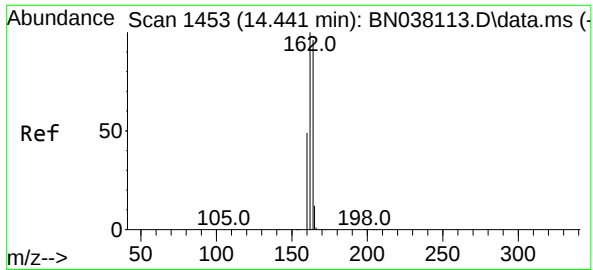
Tgt Ion:	82	Resp:	7267
Ion	Ratio	Lower	Upper
82	100		
128	41.6	34.1	51.1
54	53.9	43.5	65.3



#11
2-Methylnaphthalene-d10
Concen: 0.330 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.010 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

Tgt Ion:	152	Resp:	11971
Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.8	25.2

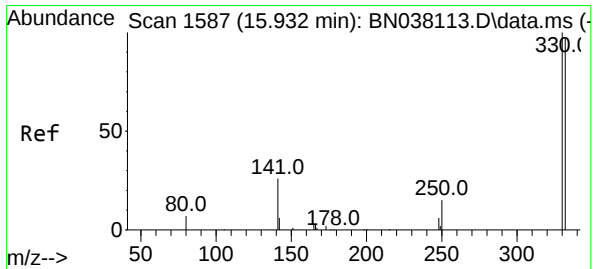
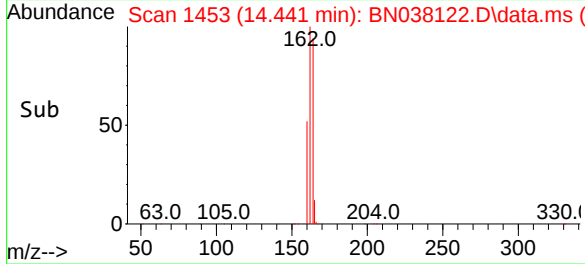
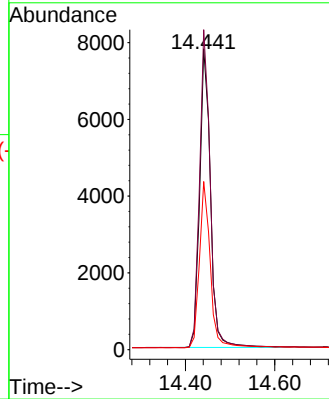
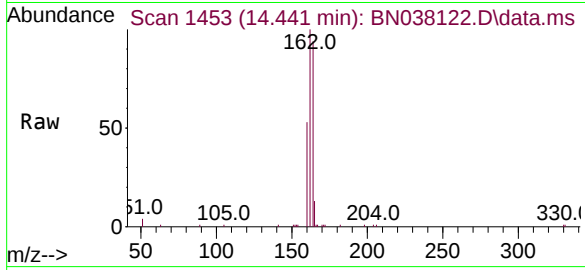




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

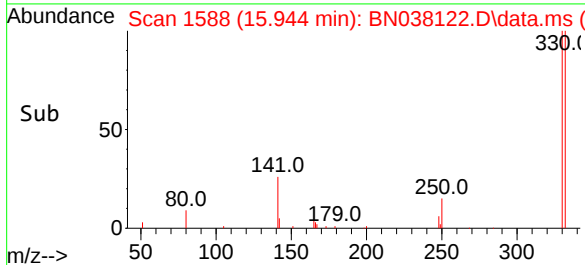
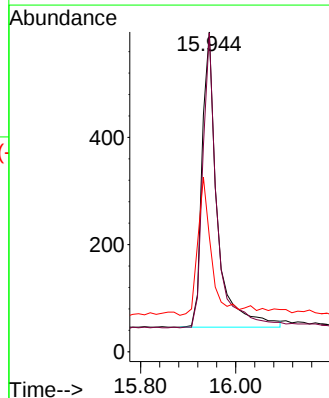
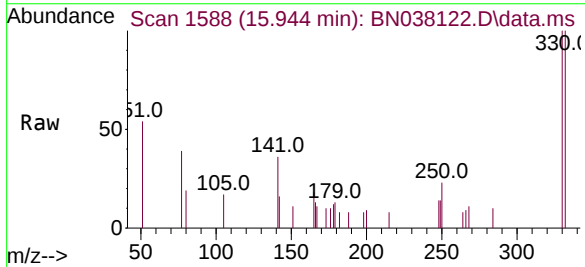
Instrument :
BNA_N
ClientSampleId :
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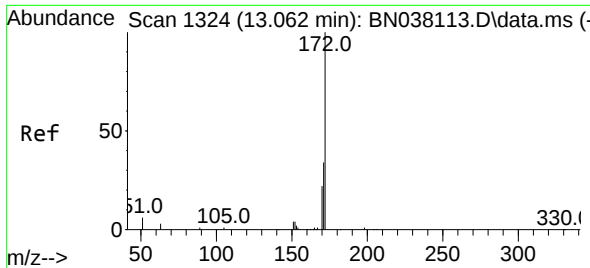
Tgt Ion	164	Resp	13033
Ion Ratio	Lower	Upper	
164	100		
162	106.4	83.0	124.4
160	55.9	40.7	61.1



#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.944 min Scan# 1588
Delta R.T. 0.012 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

Tgt Ion	330	Resp	1217
Ion Ratio	Lower	Upper	
330	100		
332	94.6	76.6	114.8
141	42.5	34.1	51.1

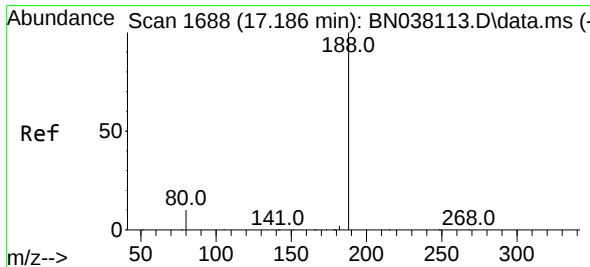
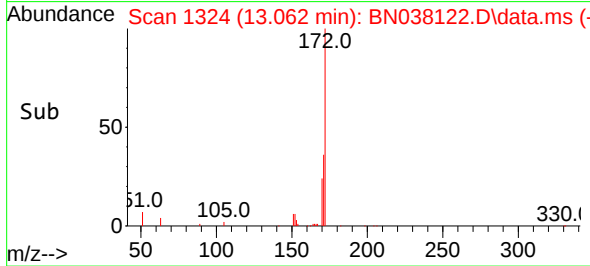
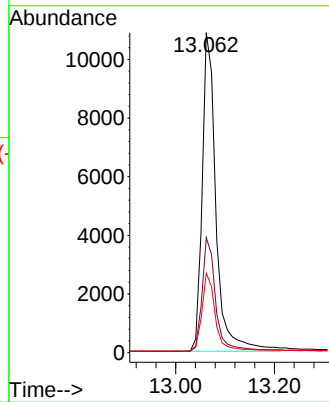
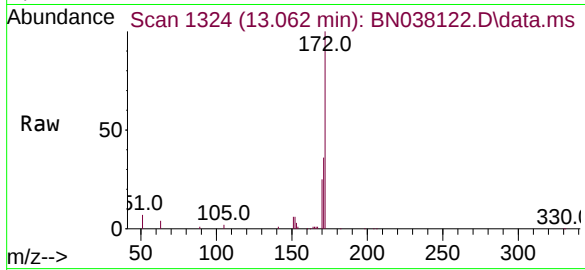




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 13.062 min Scan# 1324
Delta R.T. 0.011 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

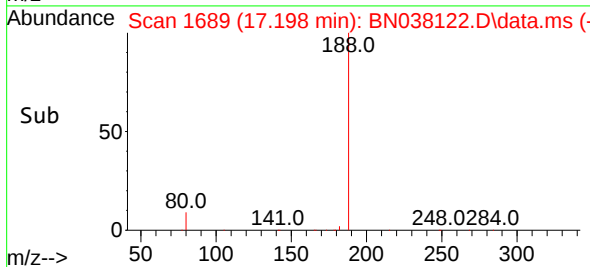
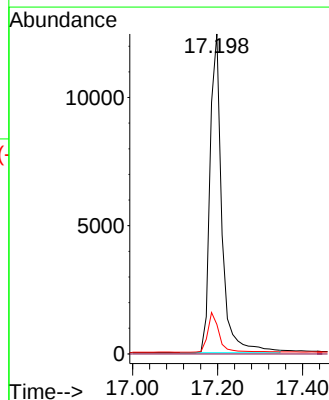
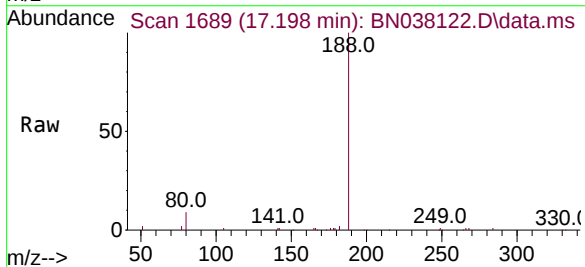
Instrument :
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ClientSampleId :
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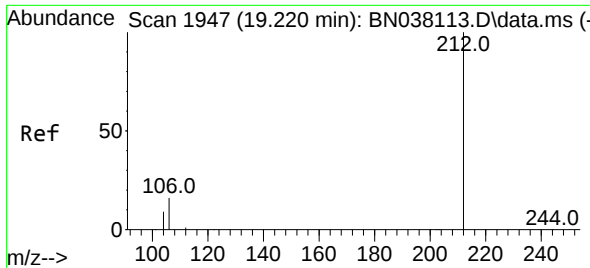
Tgt Ion:	172	Resp:	21140
Ion Ratio	Lower	Upper	
172	100		
171	35.9	27.8	41.6
170	24.8	18.1	27.1



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. 0.012 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

Tgt Ion:	188	Resp:	24037
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.2	8.6	13.0

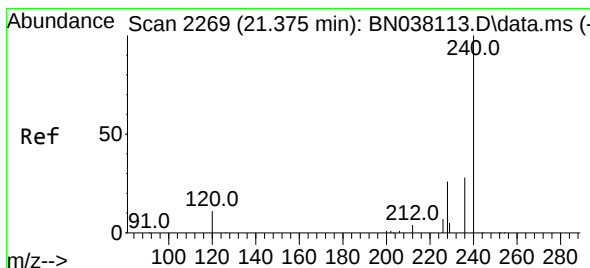
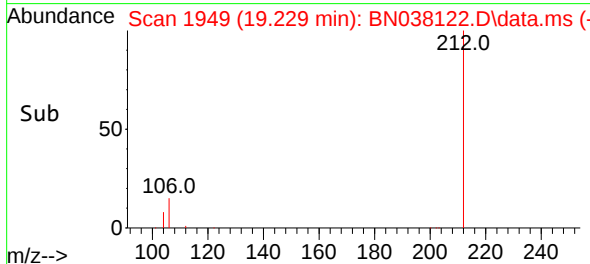
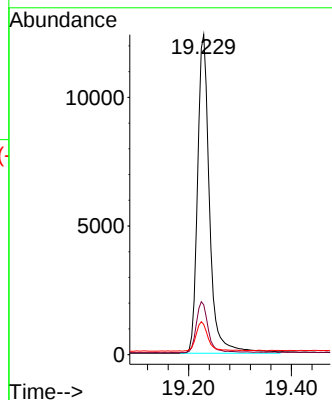
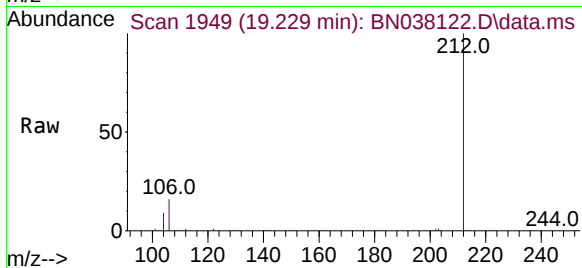




#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 19.229 min Scan# 1949
Delta R.T. 0.009 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

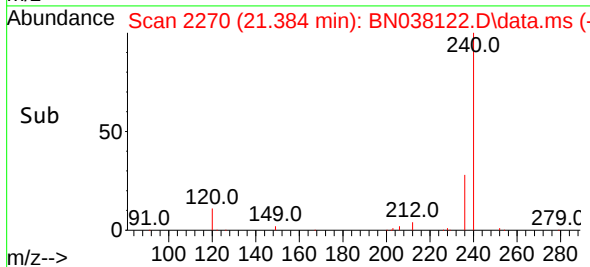
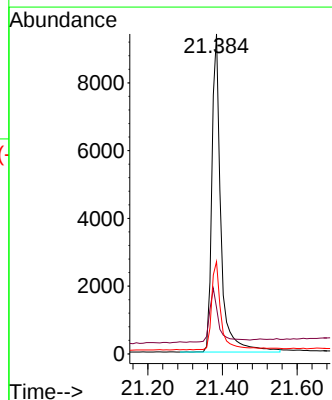
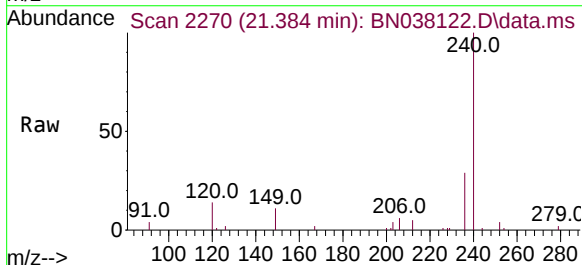
Instrument :
BNA_N
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PB170298BL

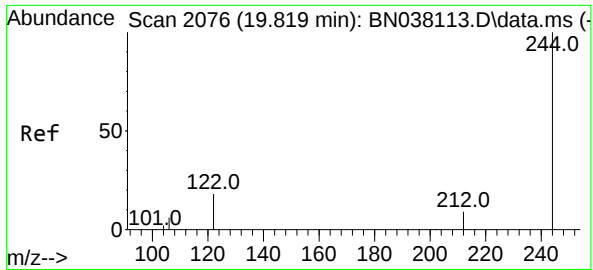
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.6	19.0
104	9.5	7.1	10.7



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.009 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.5	10.7	16.1
236	28.8	23.1	34.7

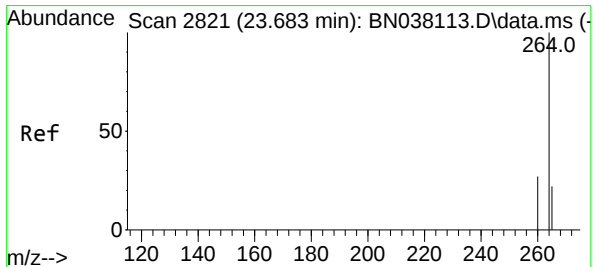
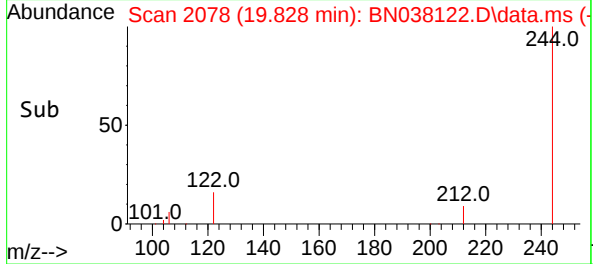
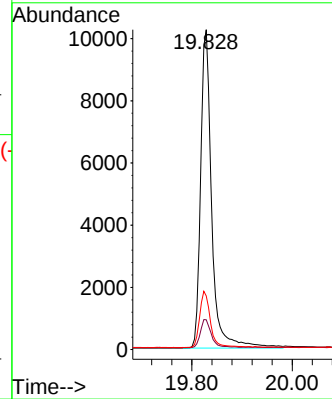
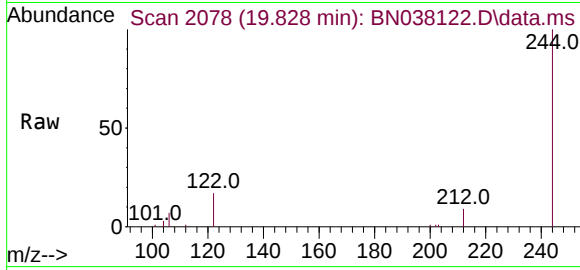




#31
Terphenyl-d14
Concen: 0.452 ng
RT: 19.828 min Scan# 2076
Delta R.T. 0.009 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

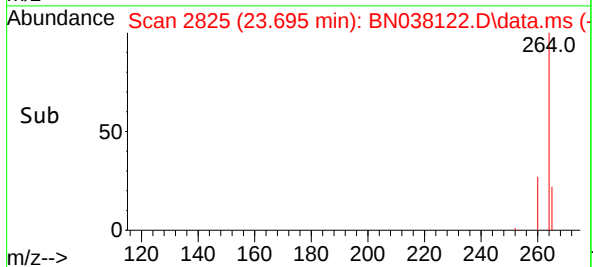
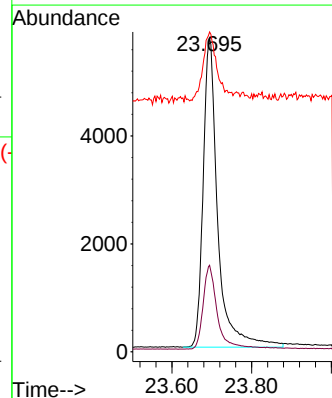
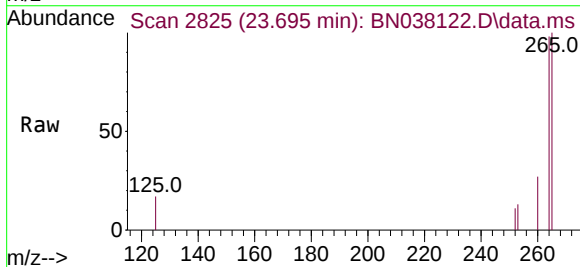
Instrument :
BNA_N
ClientSampleId :
PB170298BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.8	11.6
122	16.8	15.2	22.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.695 min Scan# 2825
Delta R.T. 0.014 min
Lab File: BN038122.D
Acq: 30 Oct 2025 10:49

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.8	32.8
265	102.1	68.6	102.8





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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Waste Water PT
Client Sample ID: PB170298BS
Lab Sample ID: PB170298BS
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL
Prep Method : 3510 Prep Date: 10/28/25 13:30

Date Collected:
Date Received:
SDG No.: Q3478
Matrix: Water
% Solid: 0
Test: SVOCMS Group5

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	0.36		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
91-57-6	2-Methylnaphthalene	0.31		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
208-96-8	Acenaphthylene	0.39		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
83-32-9	Acenaphthene	0.35		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
86-73-7	Fluorene	0.36		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
85-01-8	Phenanthrene	0.37		1	0.030	0.10	ug/L	10/30/25 11:25	PB170298
120-12-7	Anthracene	0.36		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
206-44-0	Fluoranthene	0.32		1	0.030	0.10	ug/L	10/30/25 11:25	PB170298
129-00-0	Pyrene	0.37		1	0.030	0.10	ug/L	10/30/25 11:25	PB170298
56-55-3	Benzo(a)anthracene	0.35		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
218-01-9	Chrysene	0.38		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
205-99-2	Benzo(b)fluoranthene	0.36		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
207-08-9	Benzo(k)fluoranthene	0.37		1	0.050	0.10	ug/L	10/30/25 11:25	PB170298
50-32-8	Benzo(a)pyrene	0.38		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
193-39-5	Indeno(1,2,3-cd)pyrene	0.40		1	0.050	0.10	ug/L	10/30/25 11:25	PB170298
53-70-3	Dibenzo(a,h)anthracene	0.40		1	0.050	0.10	ug/L	10/30/25 11:25	PB170298
191-24-2	Benzo(g,h,i)perylene	0.40		1	0.040	0.10	ug/L	10/30/25 11:25	PB170298
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.36			20 - 139	91%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.33			54 - 157	81%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.37			27 - 154	91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.41			30 - 155	102%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.44			54 - 175	109%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	11300							
1146-65-2	Naphthalene-d8	32400							
15067-26-2	Acenaphthene-d10	16900							
1517-22-2	Phenanthrene-d10	31500							
1719-03-5	Chrysene-d12	21100							
1520-96-3	Perylene-d12	17700							

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\BN103025\
 Data File : BN038123.D
 Acq On : 30 Oct 2025 11:25
 Operator : RC/JU
 Sample : PB170298BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170298BS

Quant Time: Oct 30 11:49:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

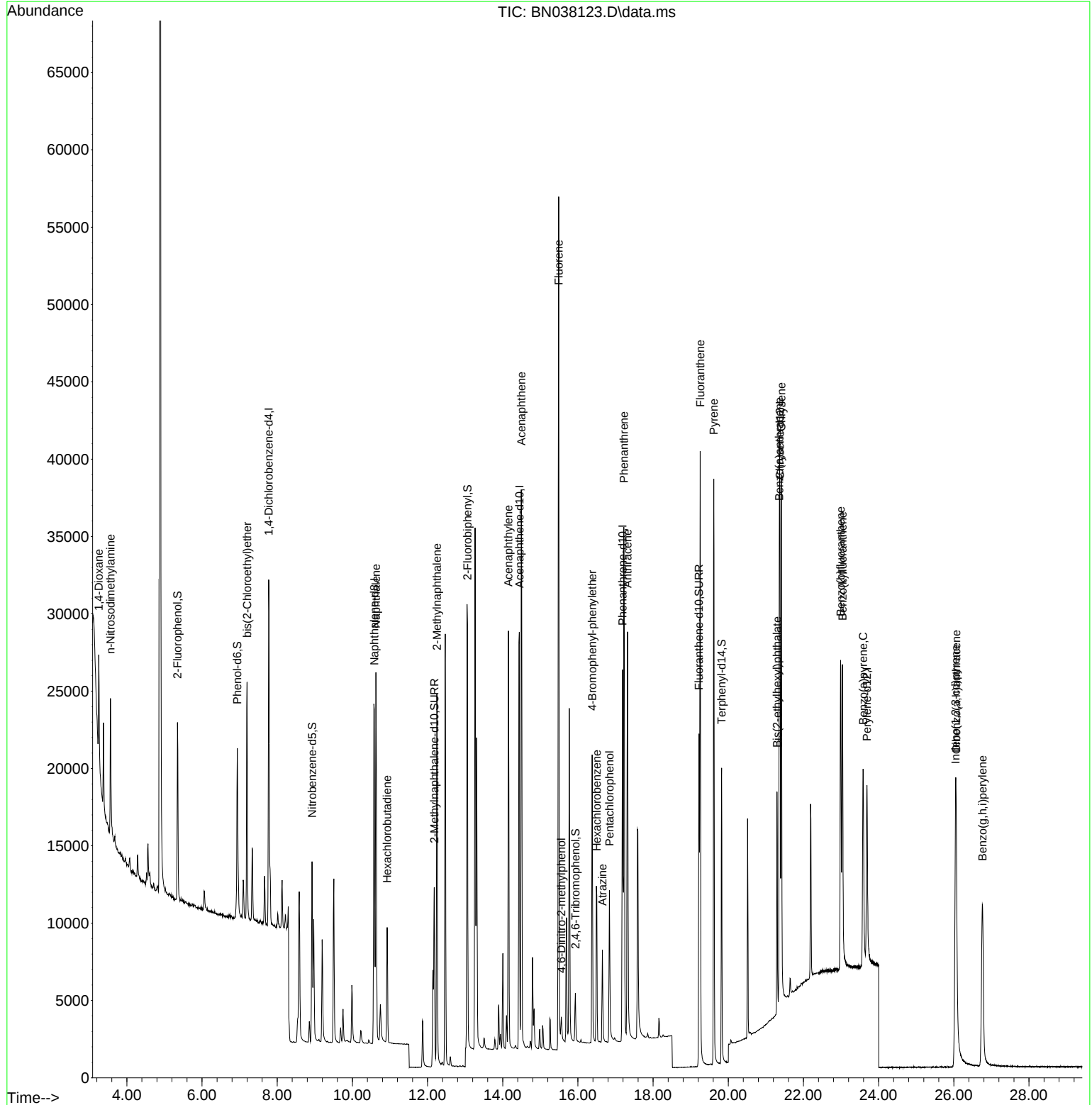
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	11299	0.400	ng	0.00
7) Naphthalene-d8	10.584	136	32410	0.400	ng	0.01
13) Acenaphthene-d10	14.441	164	16943	0.400	ng	0.01
19) Phenanthrene-d10	17.186	188	31505	0.400	ng	0.00
29) Chrysene-d12	21.375	240	21109	0.400	ng	# 0.00
35) Perylene-d12	23.689	264	17709	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	9452	0.355	ng	0.00
5) Phenol-d6	6.937	99	11083	0.342	ng	0.00
8) Nitrobenzene-d5	8.929	82	9586	0.366	ng	0.00
11) 2-Methylnaphthalene-d10	12.177	152	16790	0.363	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	1912	0.274	ng	0.00
15) 2-Fluorobiphenyl	13.062	172	27761	0.409	ng	0.01
27) Fluoranthene-d10	19.220	212	25871	0.326	ng	0.00
31) Terphenyl-d14	19.824	244	20109	0.438	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.254	88	3839	0.329	ng	# 51
3) n-Nitrosodimethylamine	3.564	42	5357	0.357	ng	# 97
6) bis(2-Chloroethyl)ether	7.197	93	11538	0.362	ng	98
9) Naphthalene	10.626	128	31678	0.355	ng	100
10) Hexachlorobutadiene	10.925	225	5740	0.381	ng	# 100
12) 2-Methylnaphthalene	12.248	142	18576	0.312	ng	98
16) Acenaphthylene	14.152	152	29847	0.389	ng	99
17) Acenaphthene	14.495	154	18779	0.350	ng	98
18) Fluorene	15.489	166	25279	0.359	ng	100
20) 4,6-Dinitro-2-methylph...	15.560	198	1170	0.379	ng	93
21) 4-Bromophenyl-phenylether	16.379	248	7469	0.362	ng	98
22) Hexachlorobenzene	16.503	284	8988	0.383	ng	99
23) Atrazine	16.652	200	5021	0.332	ng	98
24) Pentachlorophenol	16.838	266	5079	0.502	ng	98
25) Phenanthrene	17.223	178	36472	0.365	ng	100
26) Anthracene	17.322	178	31868	0.364	ng	99
28) Fluoranthene	19.253	202	36042	0.322	ng	99
30) Pyrene	19.615	202	35659	0.374	ng	99
32) Benzo(a)anthracene	21.358	228	26506	0.352	ng	100
33) Chrysene	21.411	228	30727	0.376	ng	99
34) Bis(2-ethylhexyl)phtha...	21.295	149	11380	0.287	ng	100
36) Indeno(1,2,3-cd)pyrene	26.042	276	29389	0.404	ng	99
37) Benzo(b)fluoranthene	22.990	252	26940	0.356	ng	99
38) Benzo(k)fluoranthene	23.037	252	28027	0.368	ng	98
39) Benzo(a)pyrene	23.587	252	22887	0.378	ng	99
40) Dibenzo(a,h)anthracene	26.063	278	22438	0.401	ng	98
41) Benzo(g,h,i)perylene	26.762	276	25468	0.398	ng	99

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

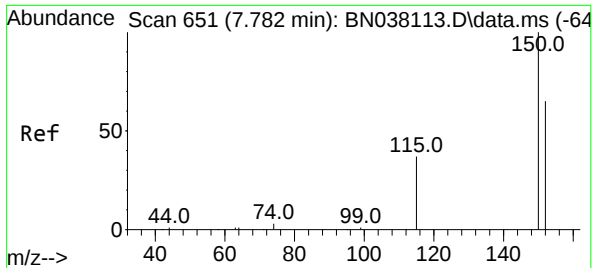
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 Acq On : 30 Oct 2025 11:25
 Operator : RC/JU
 Sample : PB170298BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170298BS

Quant Time: Oct 30 11:49:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN102825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 29 13:09:46 2025
 Response via : Initial Calibration



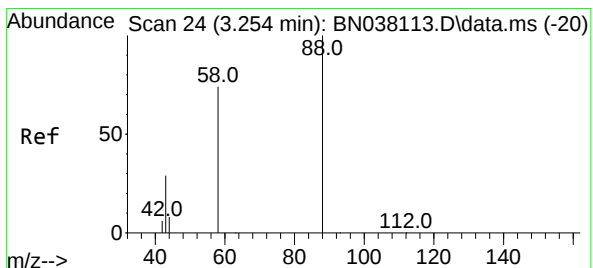
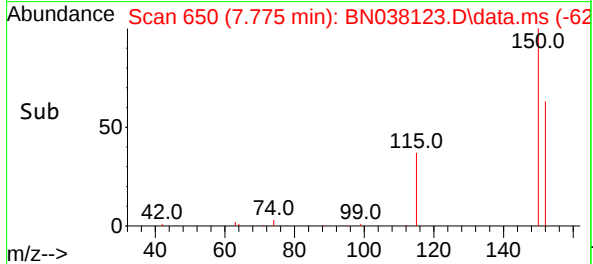
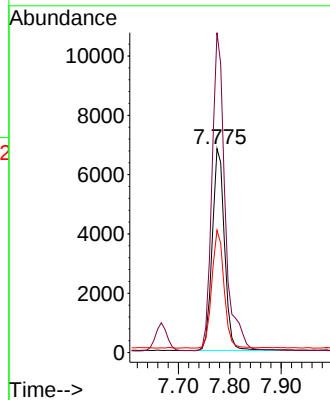
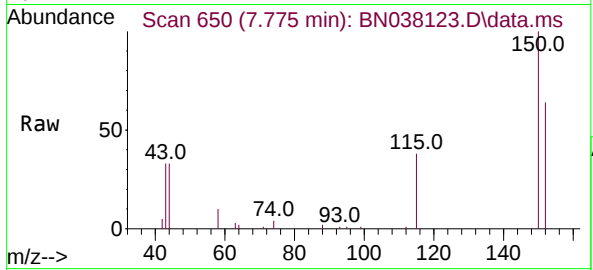
1
 2
 3
 4
 5
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 7
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 13
 14
 15
 16
 17



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

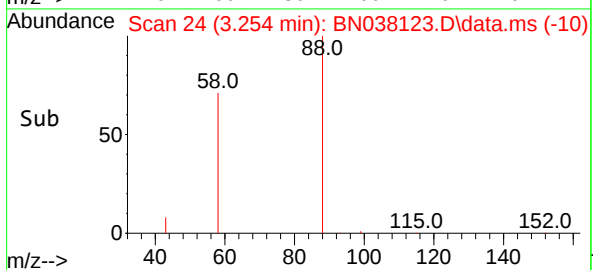
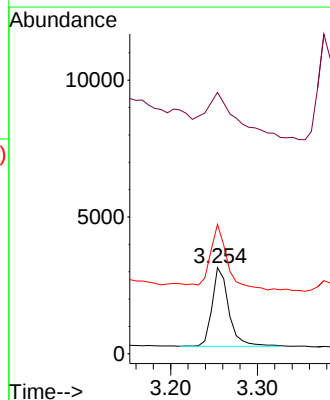
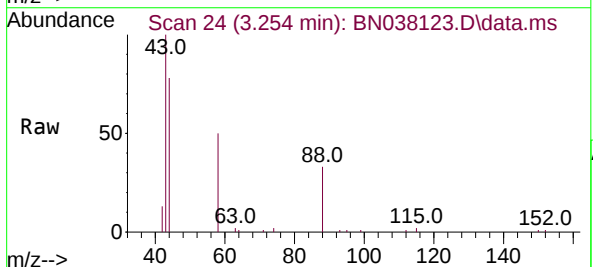
Instrument :
BNA_N
ClientSampleId :
PB170298BS

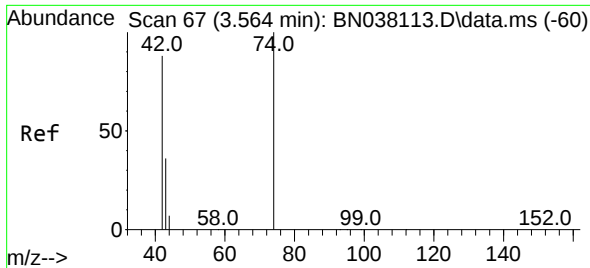
Tgt Ion:152 Resp: 11299
Ion Ratio Lower Upper
152 100
150 157.0 122.3 183.5
115 60.0 47.4 71.0



#2
1,4-Dioxane
Concen: 0.329 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion: 88 Resp: 3839
Ion Ratio Lower Upper
88 100
43 103.1 24.3 36.5#
58 88.4 60.4 90.6

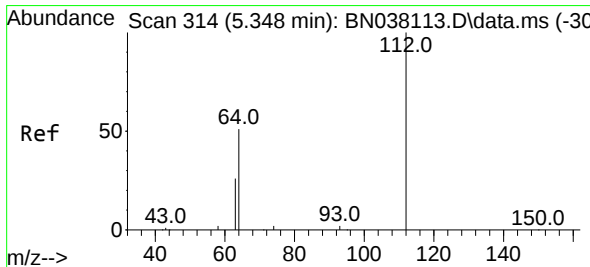
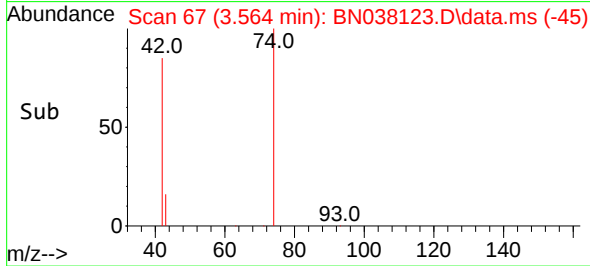
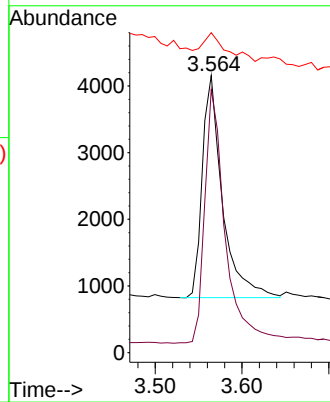
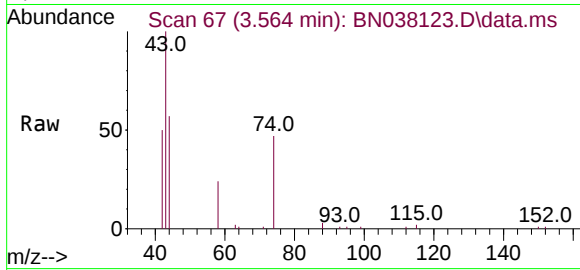




#3
n-Nitrosodimethylamine
Concen: 0.357 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

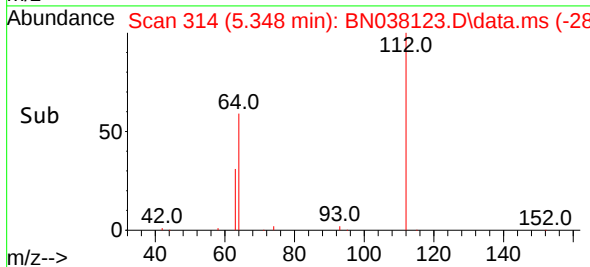
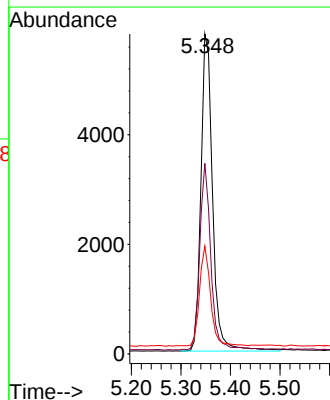
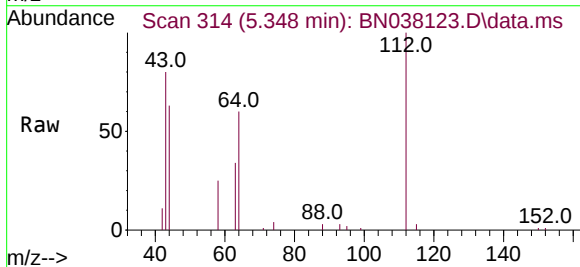
Instrument :
BNA_N
ClientSampleId :
PB170298BS

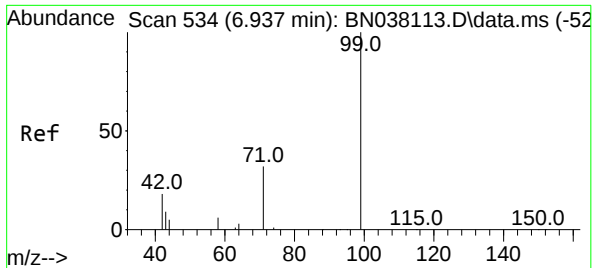
Tgt Ion: 42 Resp: 5357
Ion Ratio Lower Upper
42 100
74 119.4 96.8 145.2
44 15.3 5.3 7.9#



#4
2-Fluorophenol
Concen: 0.355 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion: 112 Resp: 9452
Ion Ratio Lower Upper
112 100
64 56.4 45.4 68.0
63 30.5 23.2 34.8

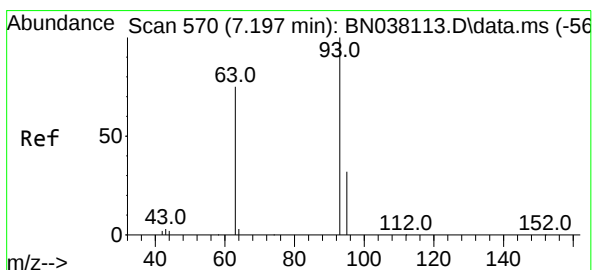
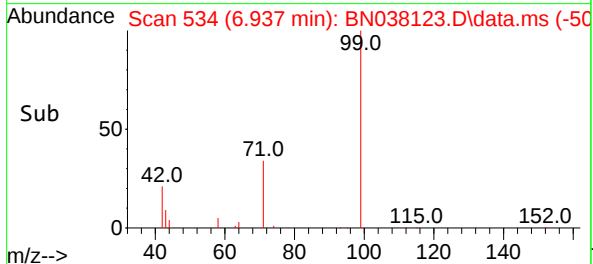
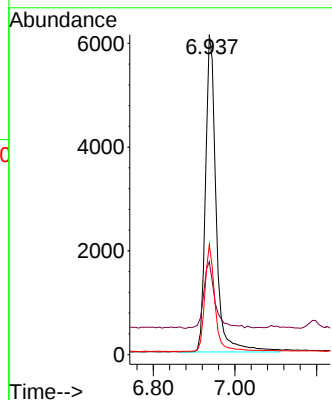
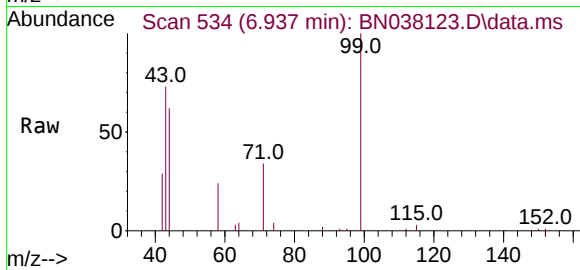




#5
Phenol-d6
Concen: 0.342 ng
RT: 6.937 min Scan# 534
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

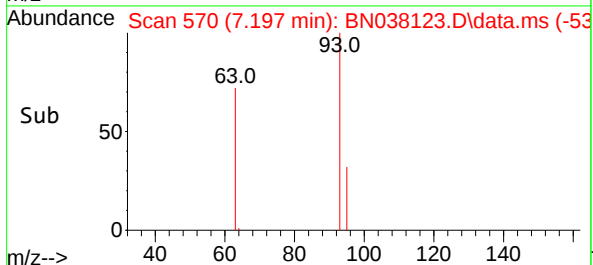
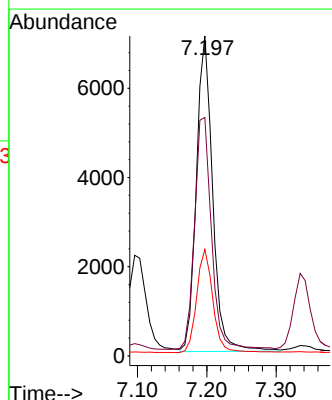
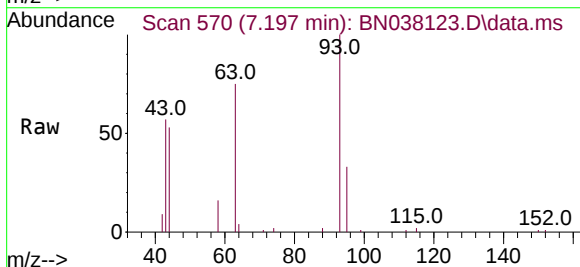
Instrument :
BNA_N
ClientSampleId :
PB170298BS

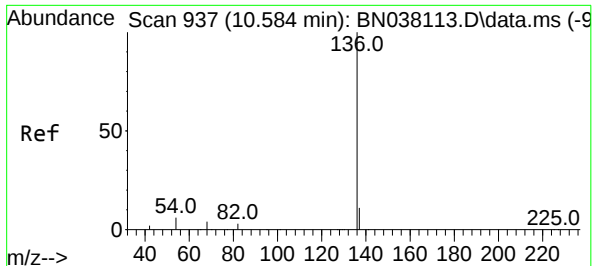
Tgt Ion:	99	Resp:	11083
Ion	Ratio	Lower	Upper
99	100		
42	22.8	16.6	24.8
71	32.5	25.4	38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.362 ng
RT: 7.197 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion:	93	Resp:	11538
Ion	Ratio	Lower	Upper
93	100		
63	76.2	59.3	88.9
95	32.6	25.2	37.8

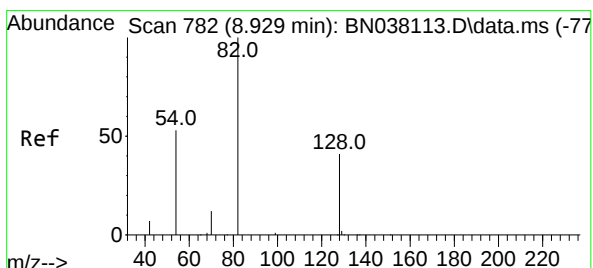
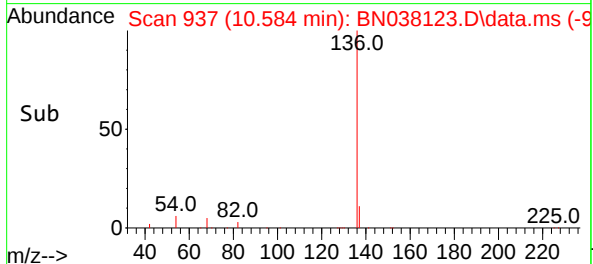
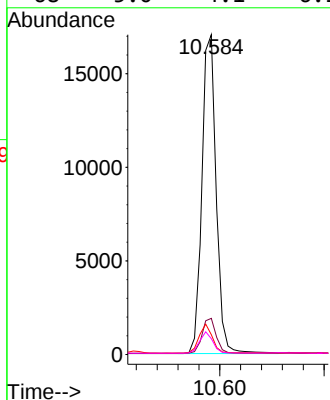
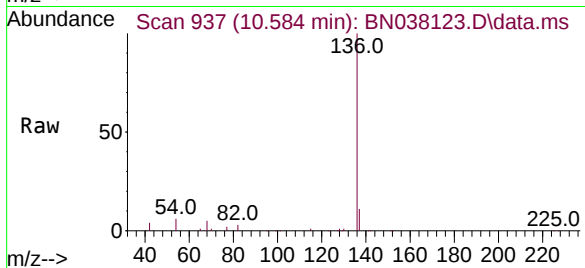




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.584 min Scan# 937
Delta R.T. 0.011 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

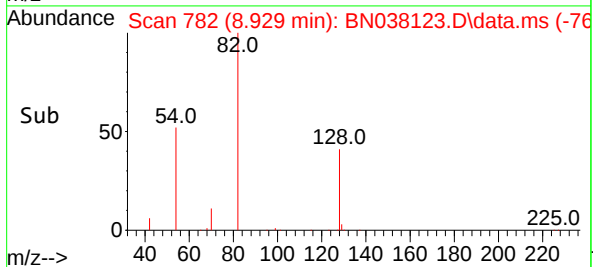
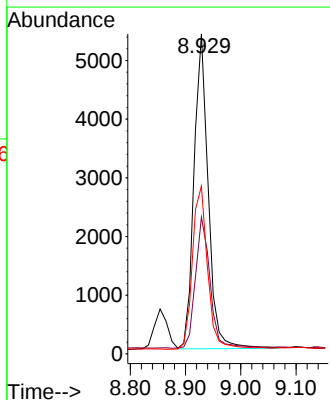
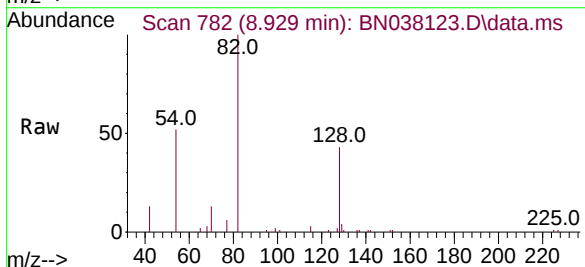
Instrument :
BNA_N
ClientSampleId :
PB170298BS

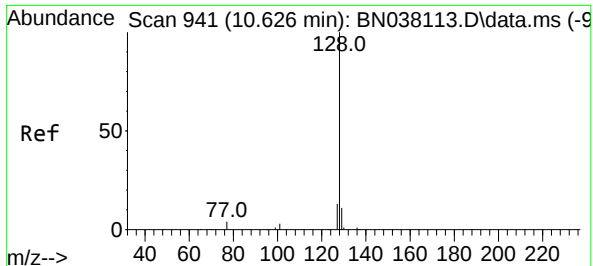
Tgt Ion:	136	Resp:	32410
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.2	5.2	7.8
68	5.0	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion:	82	Resp:	9586
Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.1	51.1
54	52.4	43.5	65.3

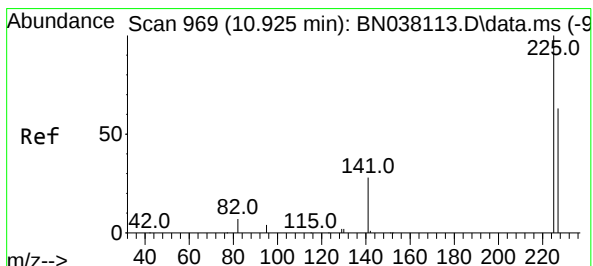
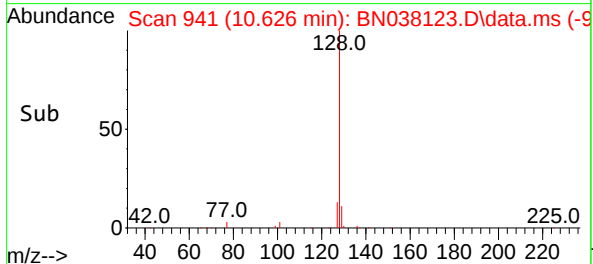
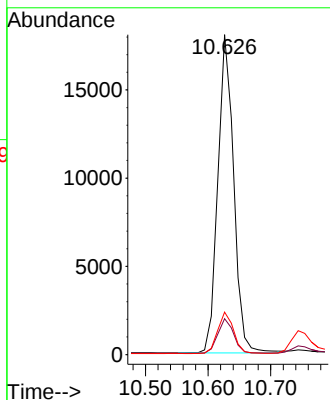
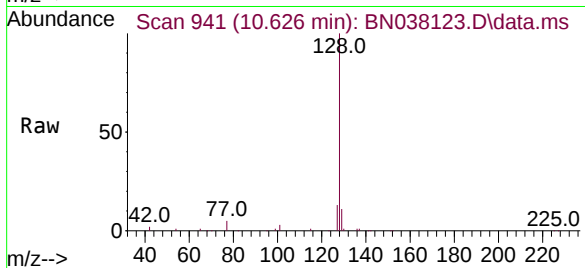




#9
Naphthalene
Concen: 0.355 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

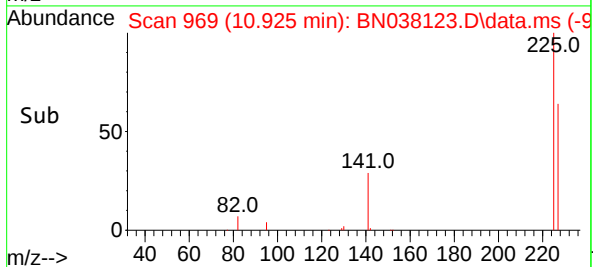
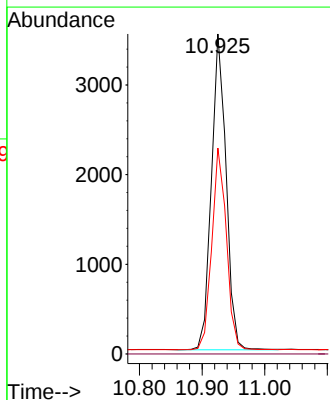
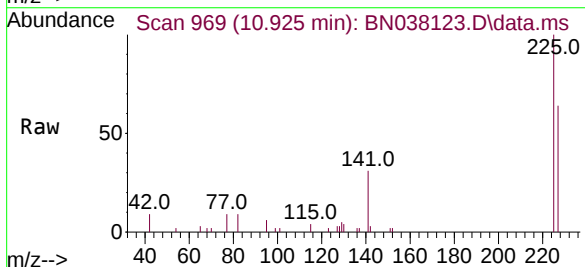
Instrument :
BNA_N
ClientSampleId :
PB170298BS

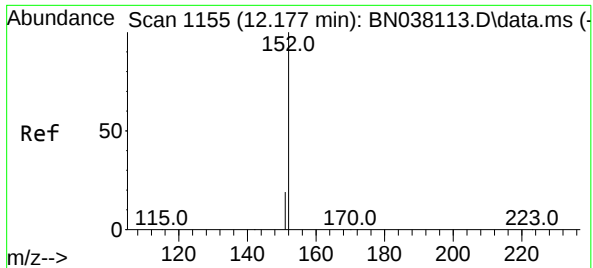
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.1	13.7
127	13.3	10.5	15.7



#10
Hexachlorobutadiene
Concen: 0.381 ng
RT: 10.925 min Scan# 969
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

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

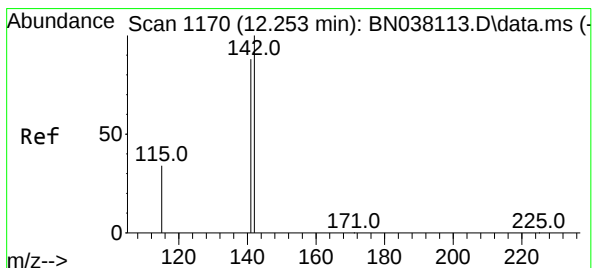
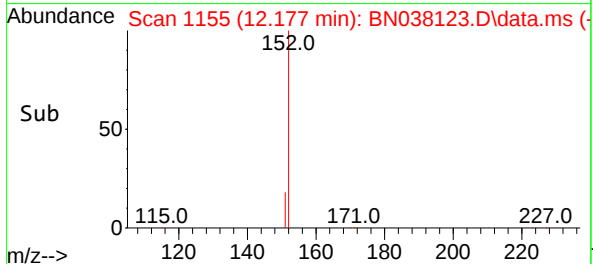
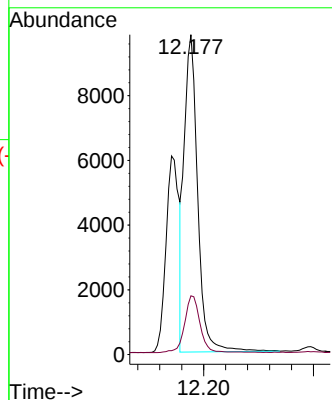
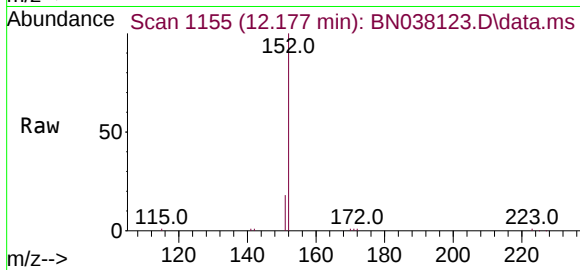




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.177 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

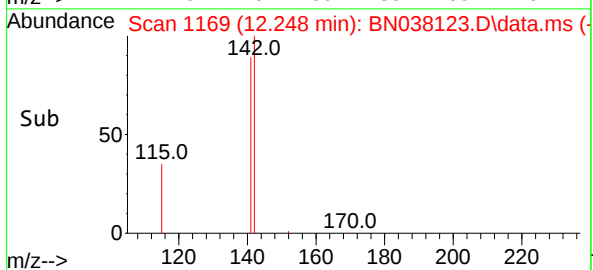
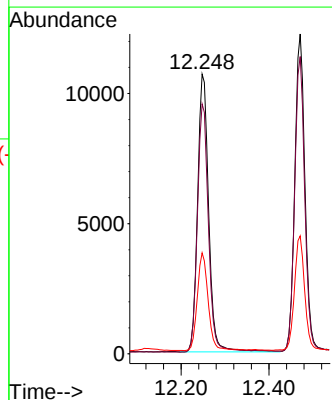
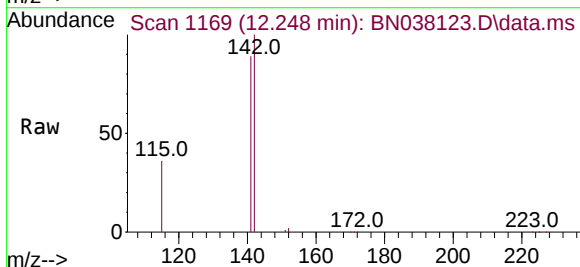
Instrument :
BNA_N
ClientSampleId :
PB170298BS

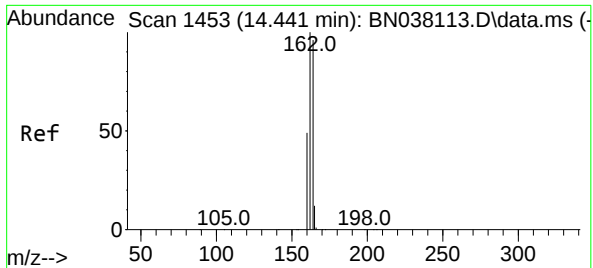
Tgt Ion:152 Resp: 16790
Ion Ratio Lower Upper
152 100
151 20.7 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.312 ng
RT: 12.248 min Scan# 1169
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion:142 Resp: 18576
Ion Ratio Lower Upper
142 100
141 89.4 70.3 105.5
115 36.1 27.8 41.6

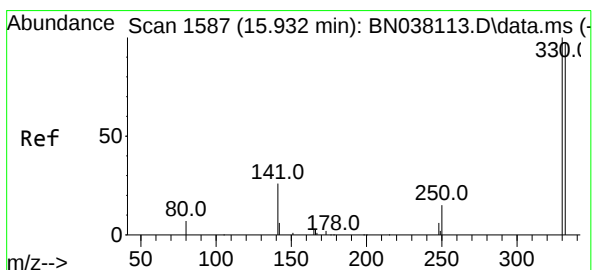
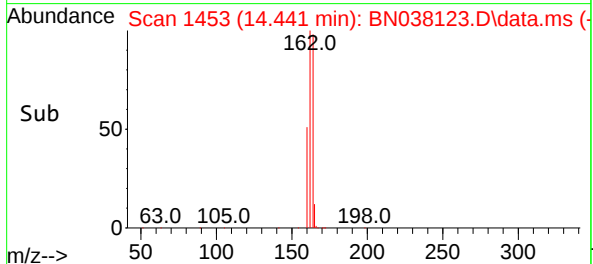
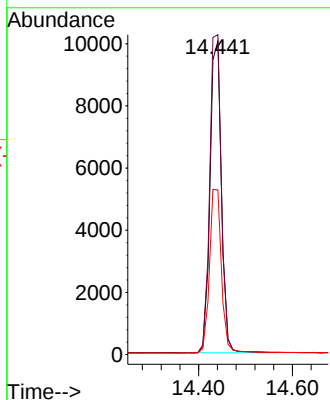
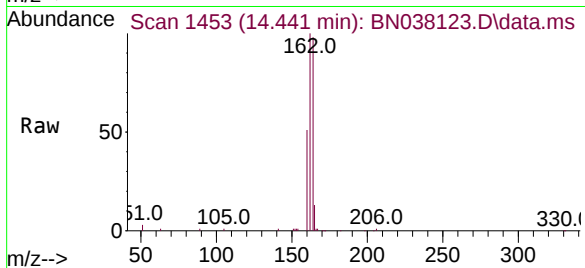




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.441 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

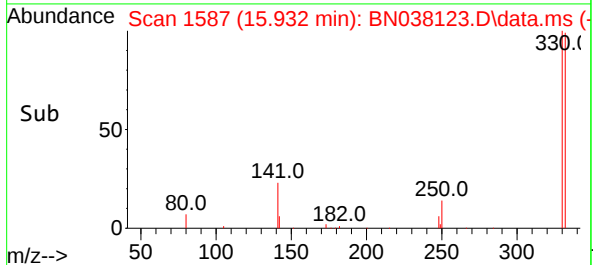
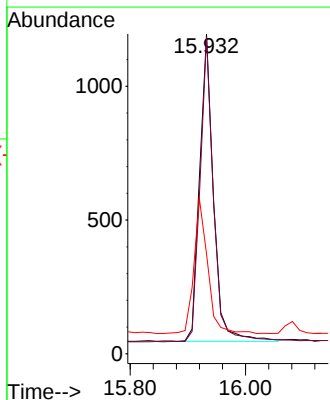
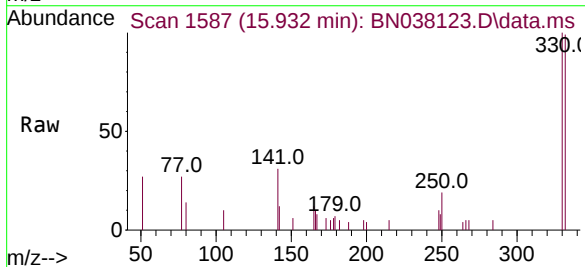
Instrument :
BNA_N
ClientSampleId :
PB170298BS

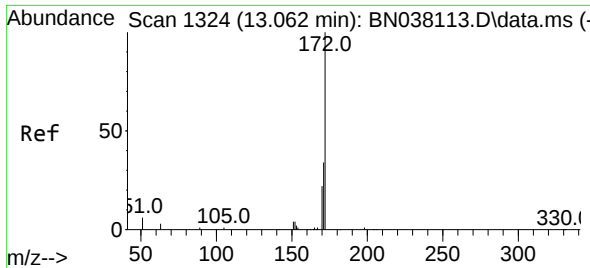
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.1	83.0	124.4
160	52.5	40.7	61.1



#14
2,4,6-Tribromophenol
Concen: 0.274 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.6	114.8
141	43.4	34.1	51.1

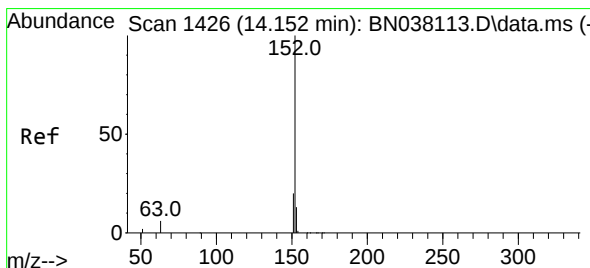
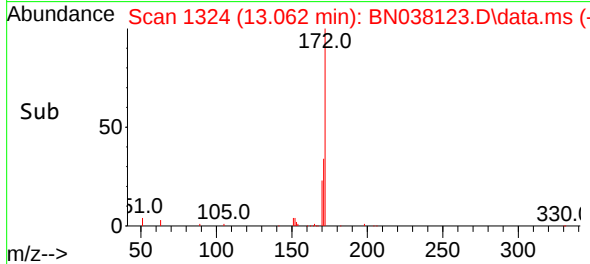
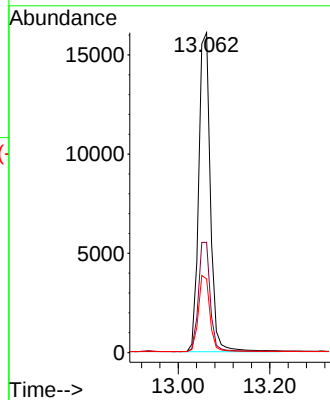
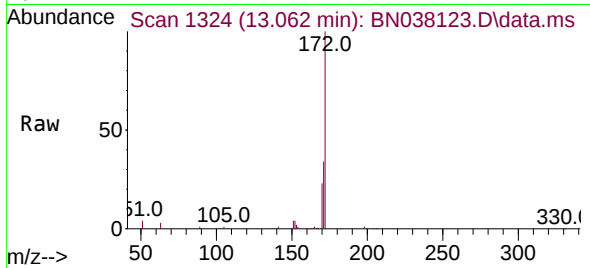




#15
2-Fluorobiphenyl
Concen: 0.409 ng
RT: 13.062 min Scan# 1324
Delta R.T. 0.011 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

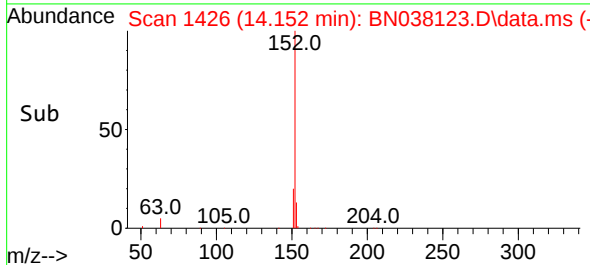
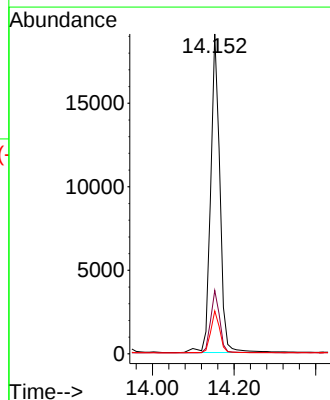
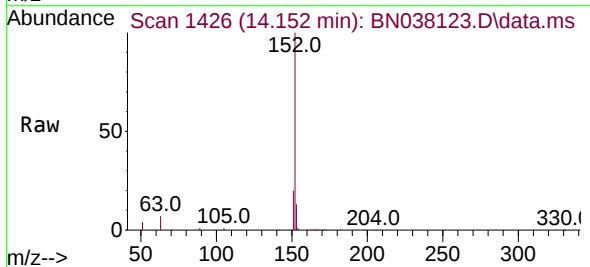
Instrument :
BNA_N
ClientSampleId :
PB170298BS

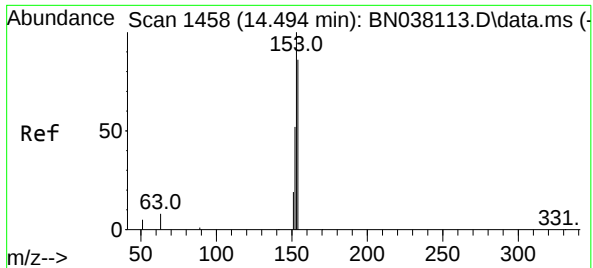
Tgt Ion:	172	Resp:	27761
Ion Ratio	Lower	Upper	
172	100		
171	34.5	27.8	41.6
170	23.0	18.1	27.1



#16
Acenaphthylene
Concen: 0.389 ng
RT: 14.152 min Scan# 1426
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion:	152	Resp:	29847
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.8	23.8
153	13.2	10.2	15.2

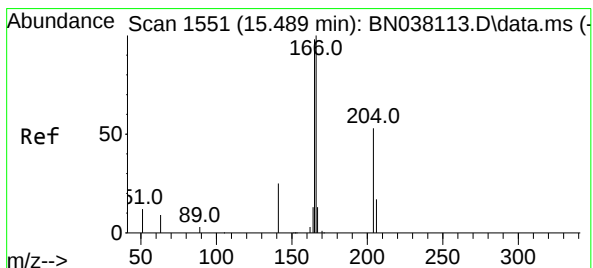
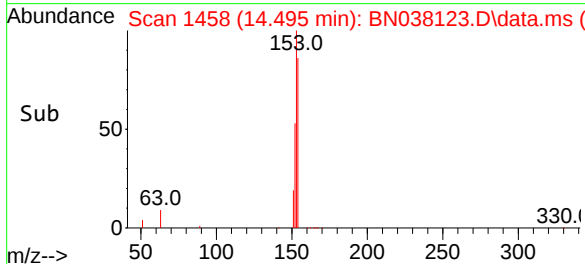
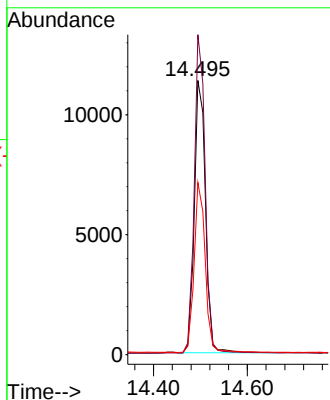
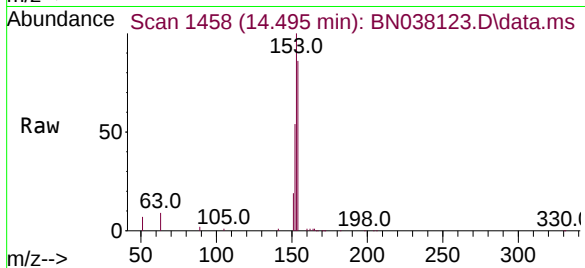




#17
Acenaphthene
Concen: 0.350 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

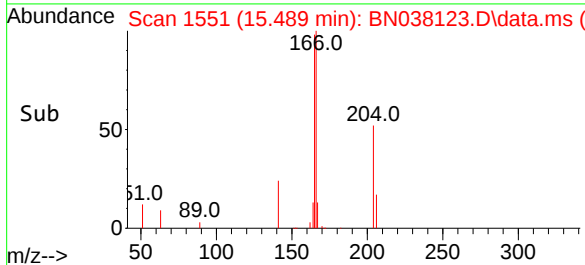
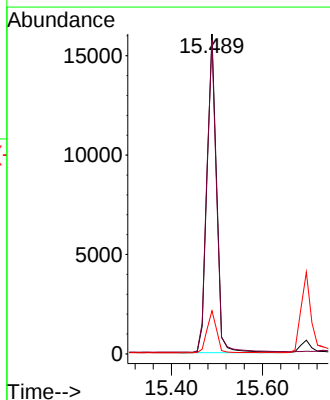
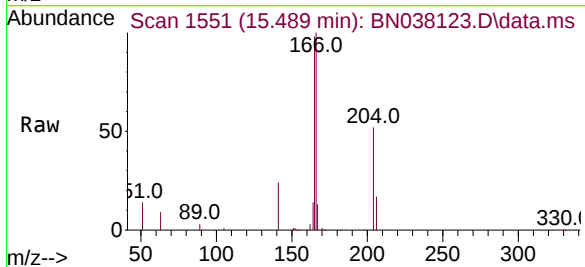
Instrument :
BNA_N
ClientSampleId :
PB170298BS

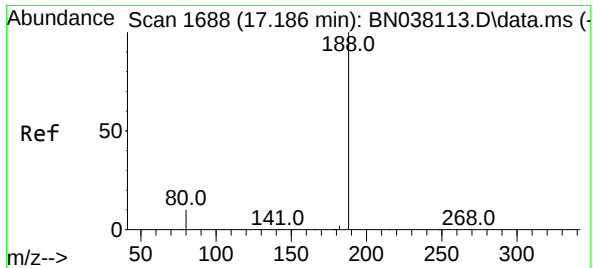
Tgt Ion:154 Resp: 18779
Ion Ratio Lower Upper
154 100
153 114.1 90.0 135.0
152 62.2 47.3 70.9



#18
Fluorene
Concen: 0.359 ng
RT: 15.489 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion:166 Resp: 25279
Ion Ratio Lower Upper
166 100
165 99.0 79.0 118.4
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN038123.D

Acq: 30 Oct 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB170298BS

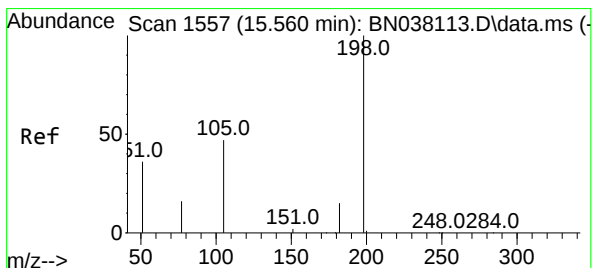
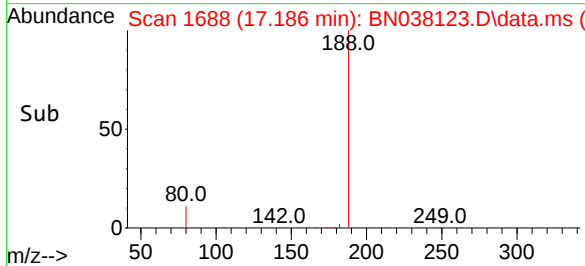
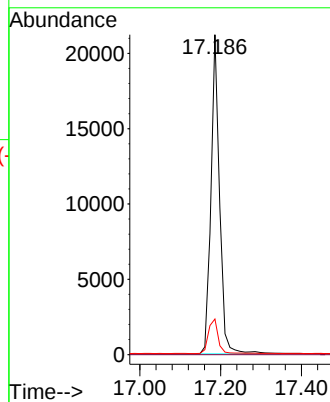
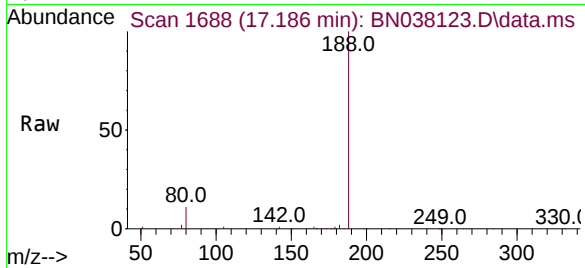
Tgt Ion:188 Resp: 31505

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 8.6 13.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.379 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.000 min

Lab File: BN038123.D

Acq: 30 Oct 2025 11:25

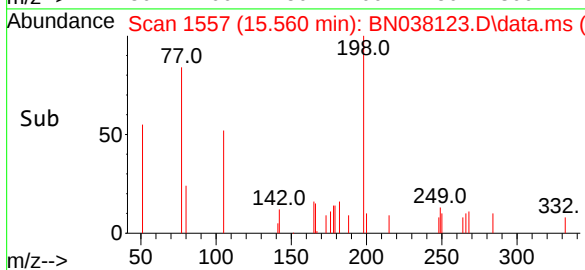
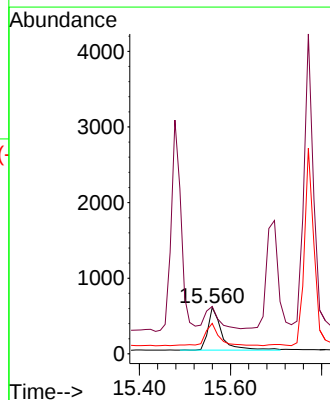
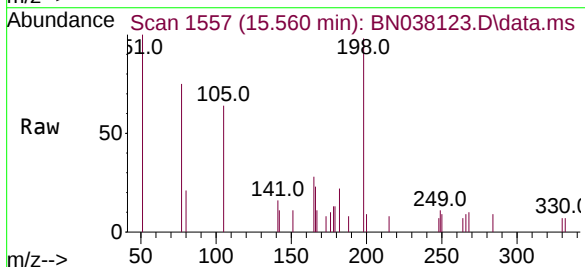
Tgt Ion:198 Resp: 1170

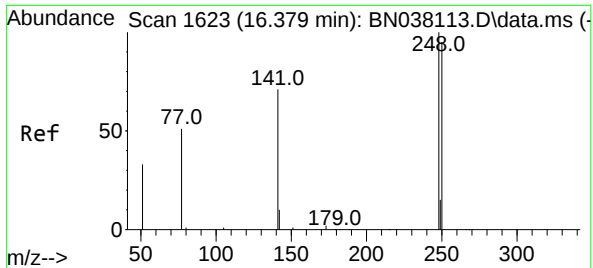
Ion Ratio Lower Upper

198 100

51 102.3 88.9 133.3

105 65.8 49.2 73.8

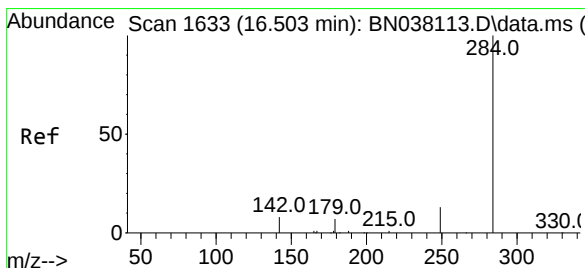
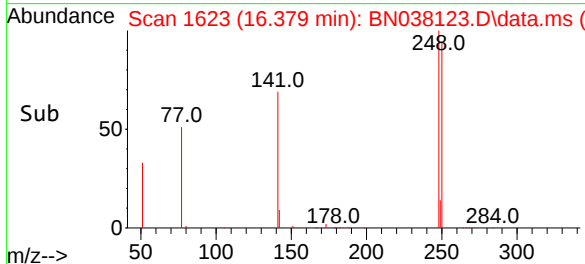
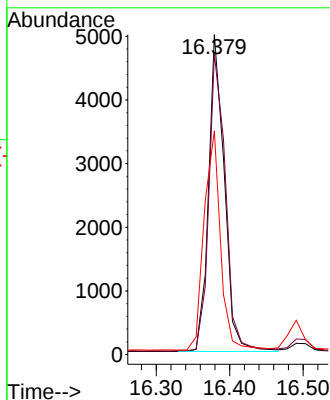
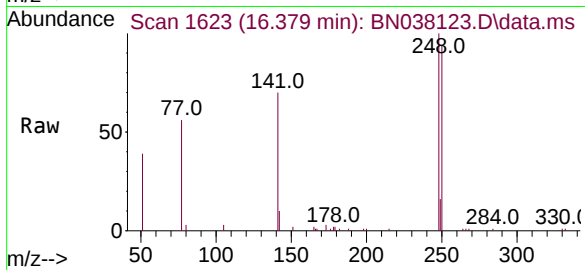




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

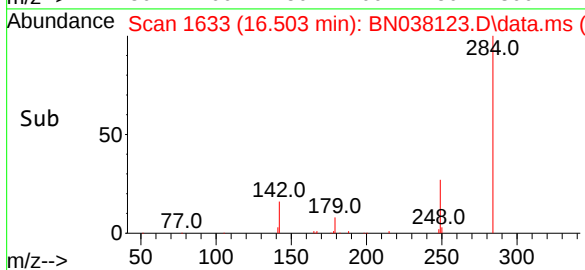
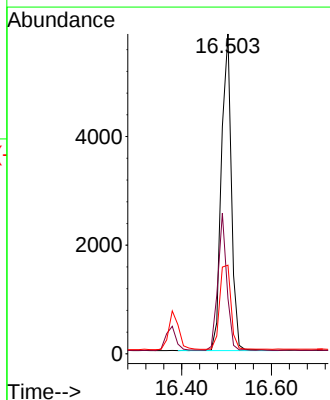
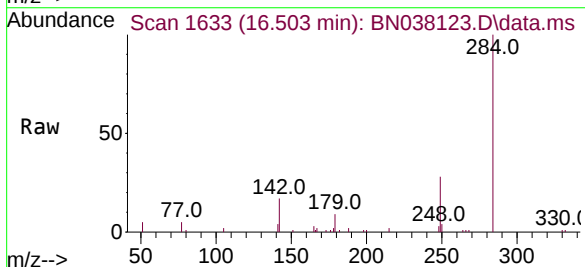
Instrument :
BNA_N
ClientSampleId :
PB170298BS

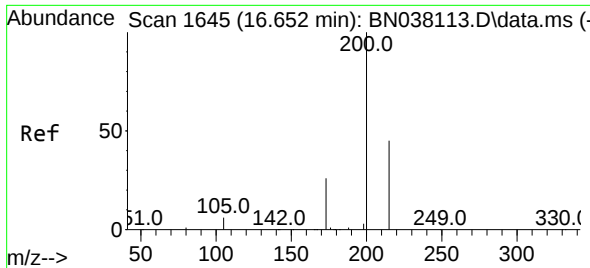
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.0	76.2	114.2
141	69.9	57.6	86.4



#22
Hexachlorobenzene
Concen: 0.383 ng
RT: 16.503 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.8	30.5	45.7
249	30.4	23.5	35.3

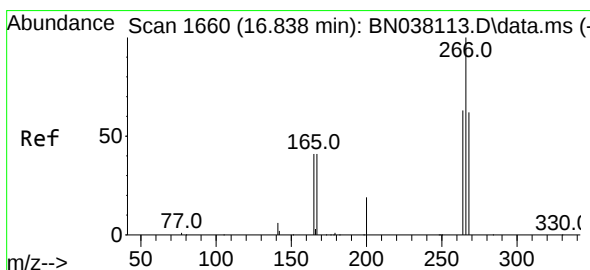
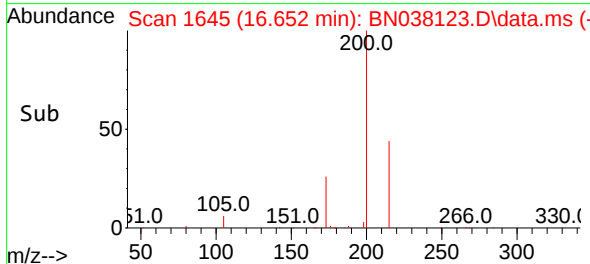
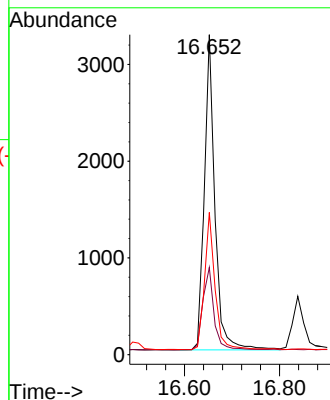
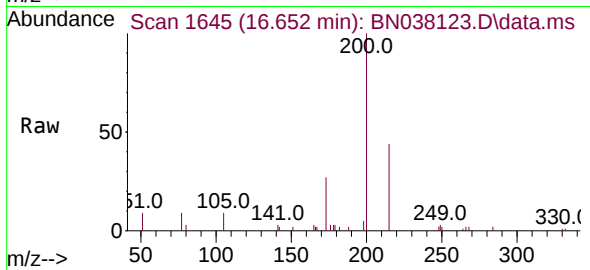




#23
Atrazine
Concen: 0.332 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

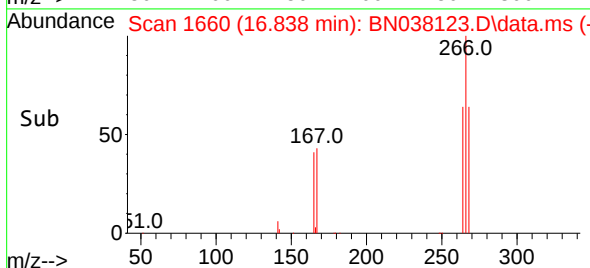
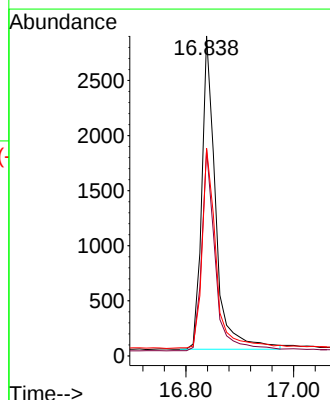
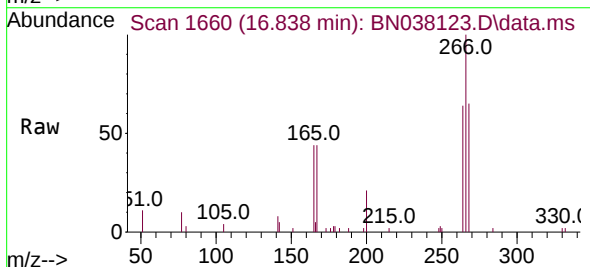
Instrument :
BNA_N
ClientSampleId :
PB170298BS

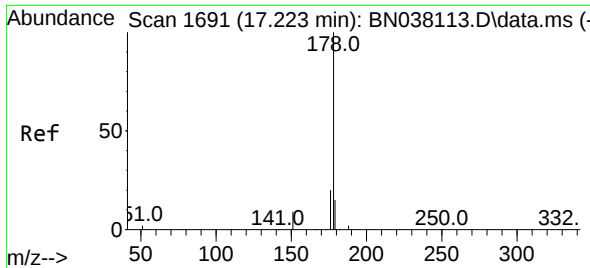
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.2	21.4	32.2
215	44.4	36.7	55.1



#24
Pentachlorophenol
Concen: 0.502 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.0	49.3	73.9
268	65.1	50.6	75.8

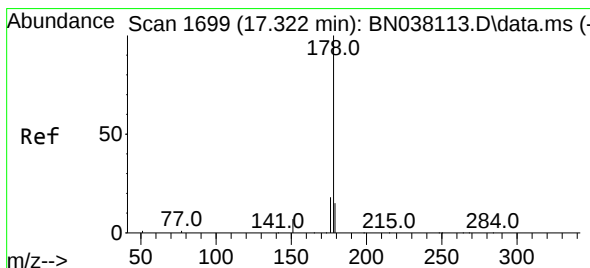
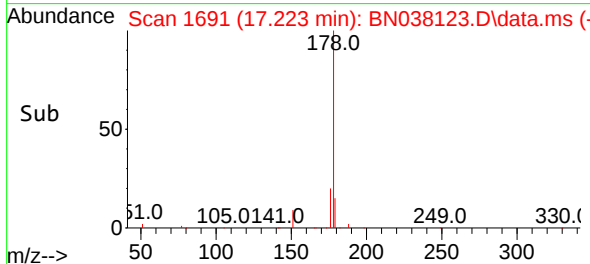
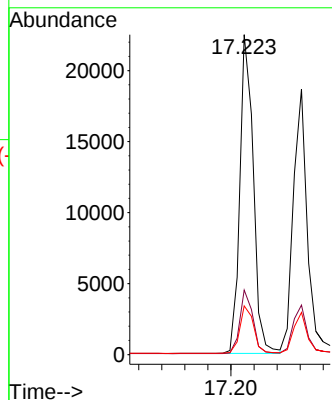
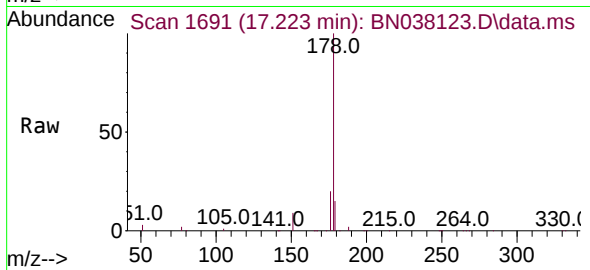




#25
Phenanthrene
Concen: 0.365 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

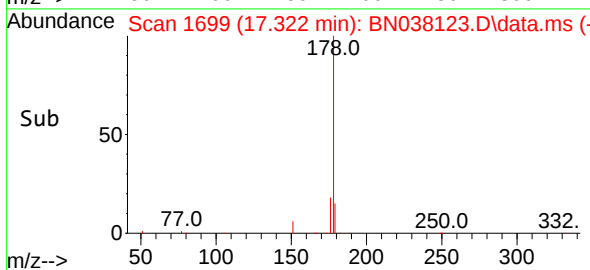
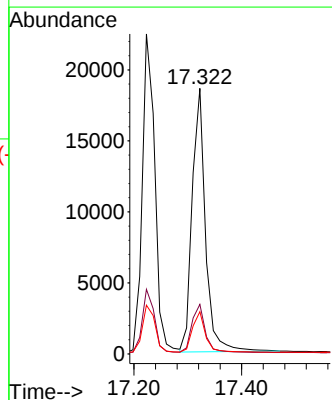
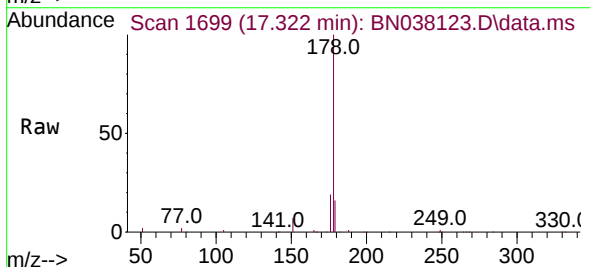
Instrument :
BNA_N
ClientSampleId :
PB170298BS

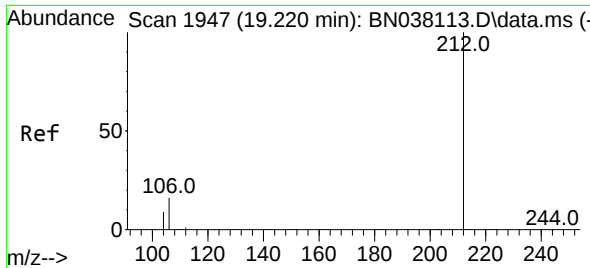
Tgt Ion:178 Resp: 36472
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.5 12.2 18.4



#26
Anthracene
Concen: 0.364 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion:178 Resp: 31868
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.3 11.8 17.8

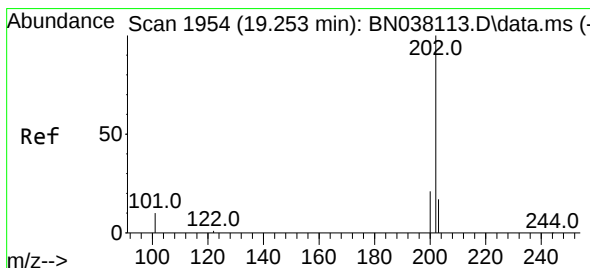
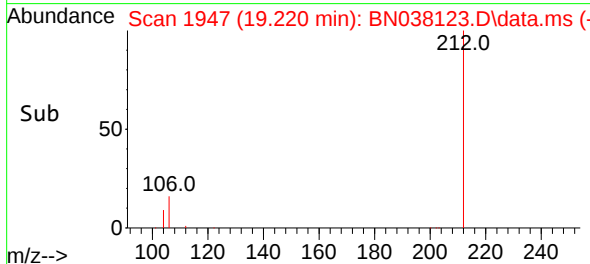
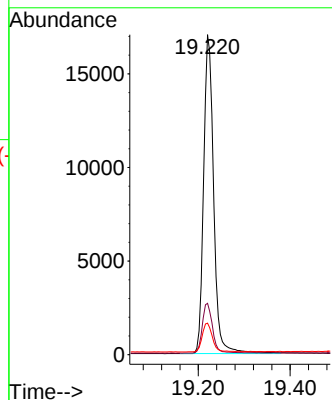
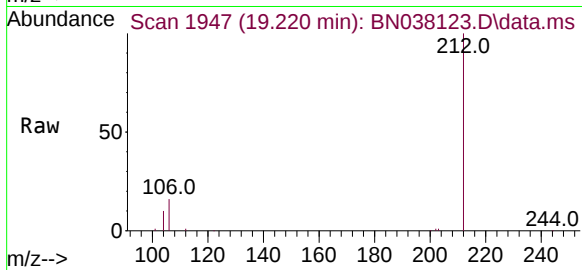




#27
Fluoranthene-d10
Concen: 0.326 ng
RT: 19.220 min Scan# 1947
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

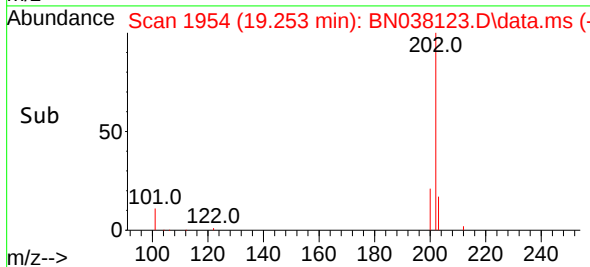
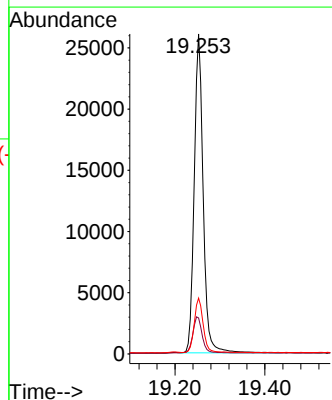
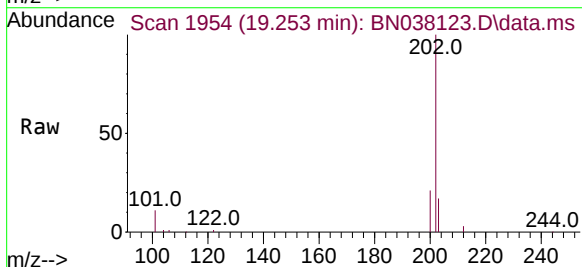
Instrument :
BNA_N
ClientSampleId :
PB170298BS

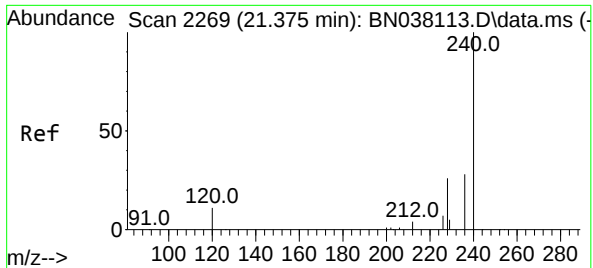
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.6	19.0
104	9.3	7.1	10.7



#28
Fluoranthene
Concen: 0.322 ng
RT: 19.253 min Scan# 1954
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.2
203	16.9	13.4	20.2

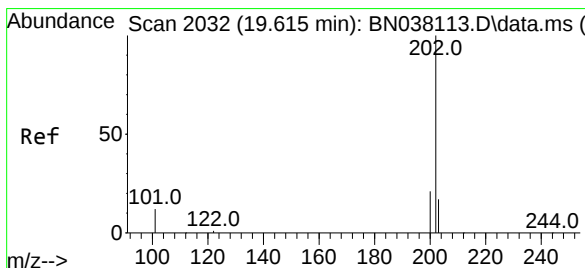
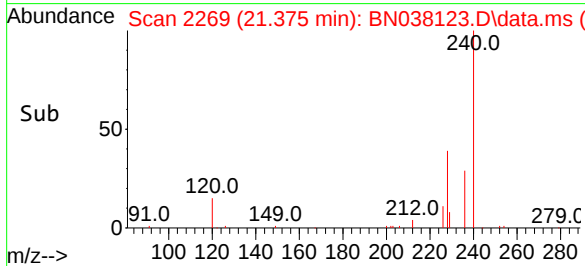
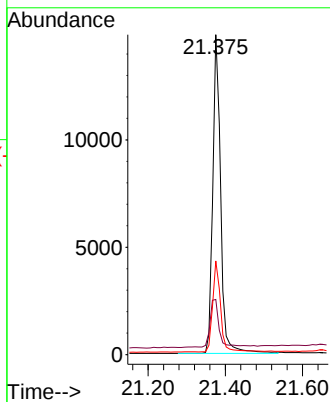
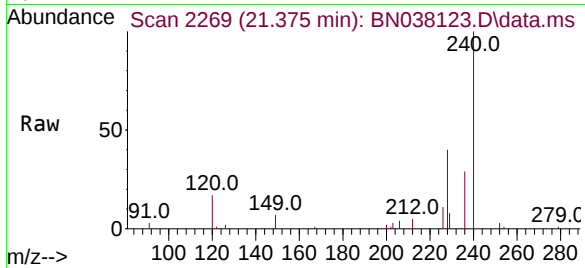




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 21109
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

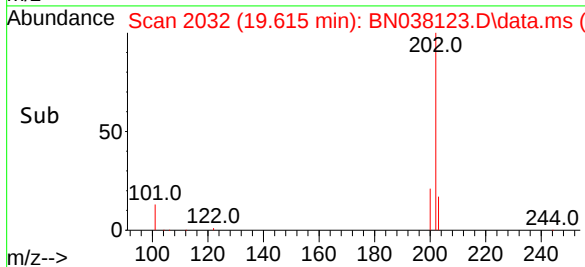
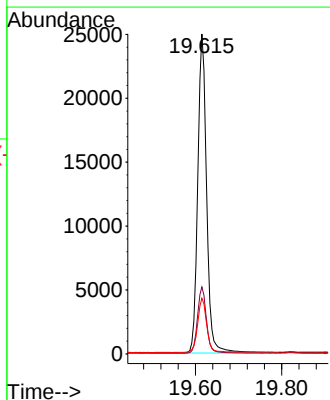
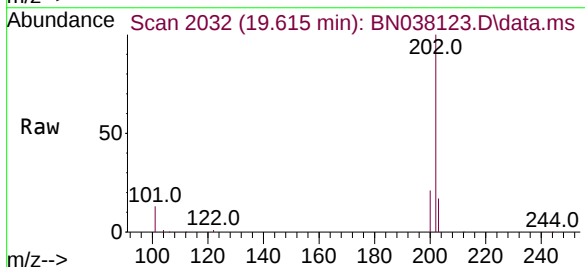
Instrument :
BNA_N
ClientSampleId :
PB170298BS

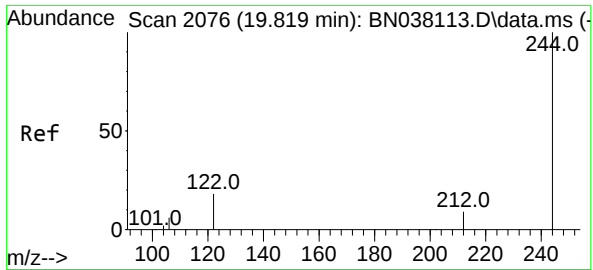
Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.3	10.7	16.1
236	29.3	23.1	34.7



#30
Pyrene
Concen: 0.374 ng
RT: 19.615 min Scan# 2032
Delta R.T. 0.005 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	17.2	14.2	21.2

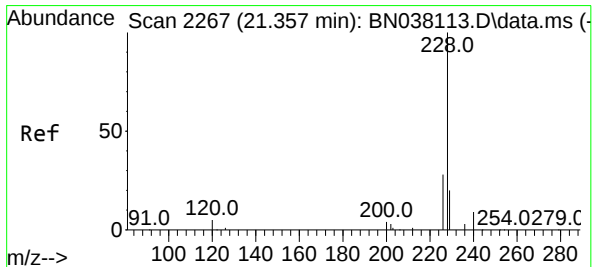
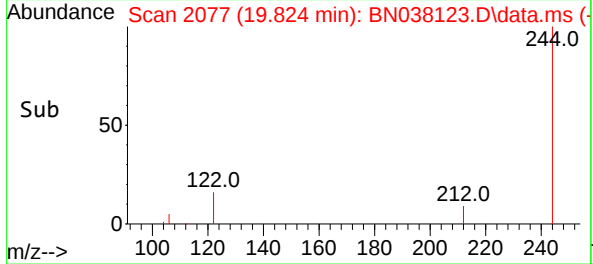
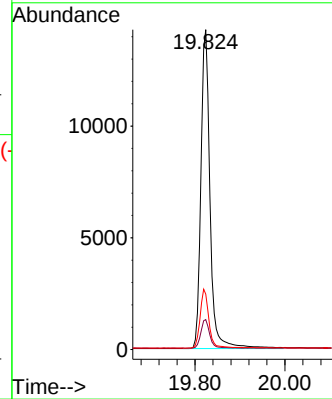
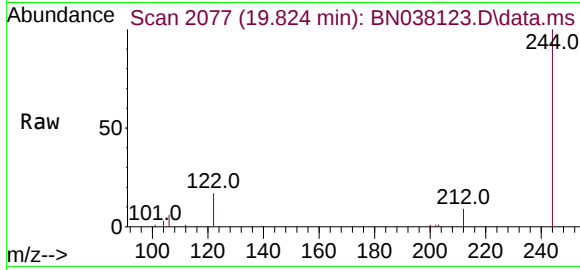




#31
Terphenyl-d14
Concen: 0.438 ng
RT: 19.824 min Scan# 2076
Delta R.T. 0.005 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

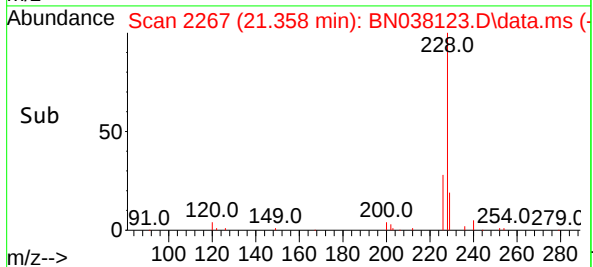
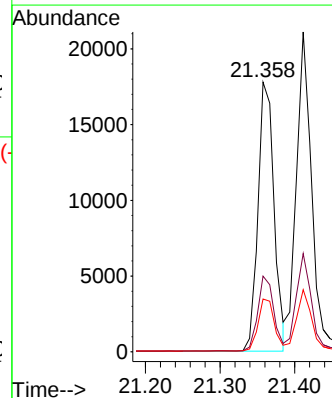
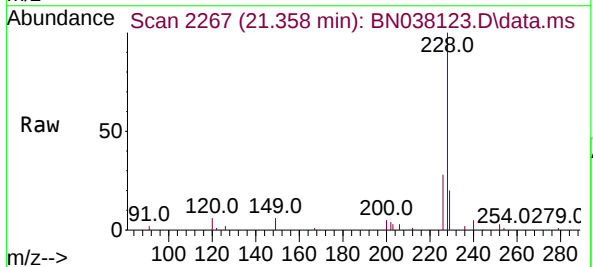
Instrument :
BNA_N
ClientSampleId :
PB170298BS

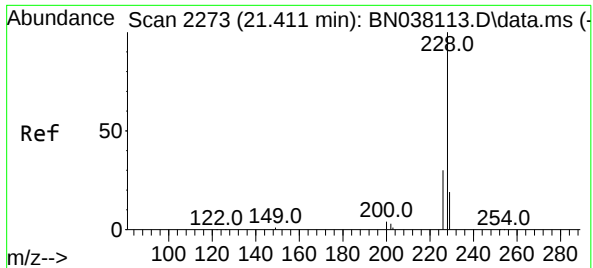
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.8	11.6
122	17.3	15.2	22.8



#32
Benzo(a)anthracene
Concen: 0.352 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.2	33.4
229	19.6	15.8	23.8

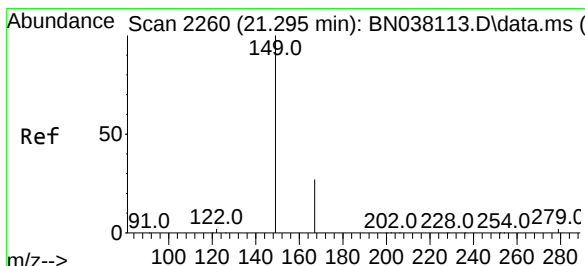
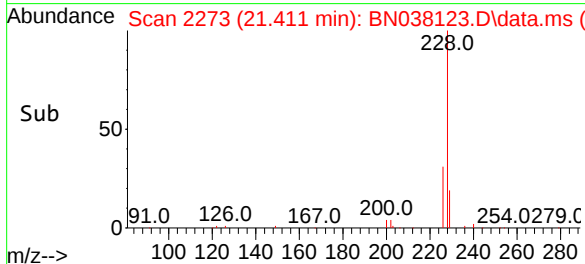
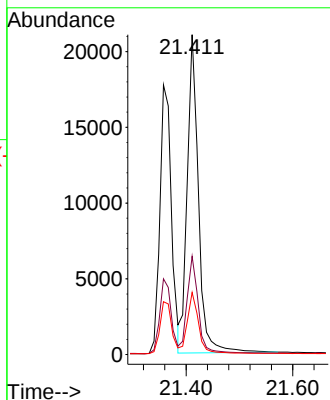
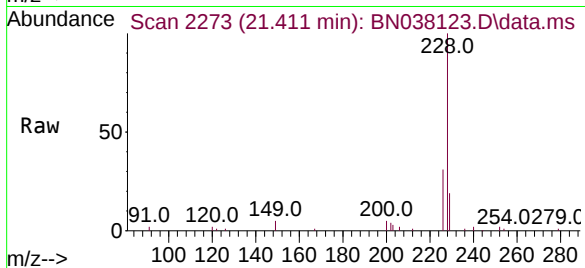




#33
Chrysene
Concen: 0.376 ng
RT: 21.411 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

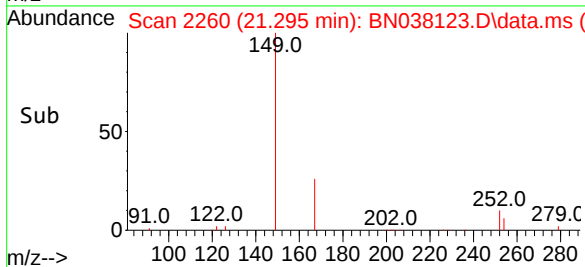
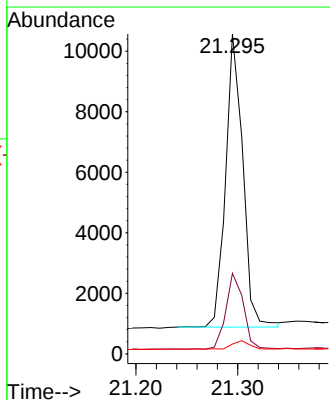
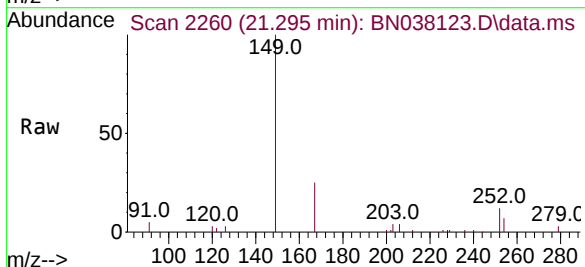
Instrument :
BNA_N
ClientSampleId :
PB170298BS

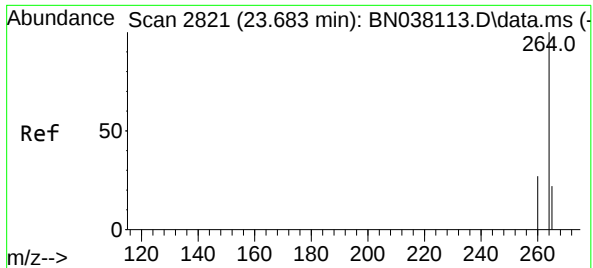
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.3	36.5
229	19.4	15.7	23.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.287 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.1	31.7
279	3.1	2.9	4.3

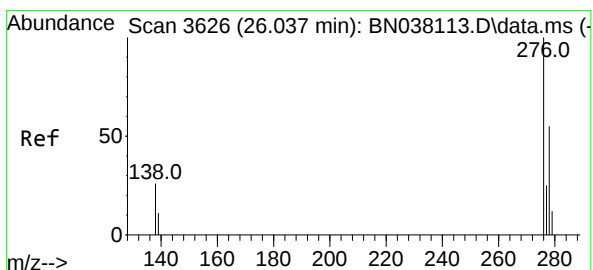
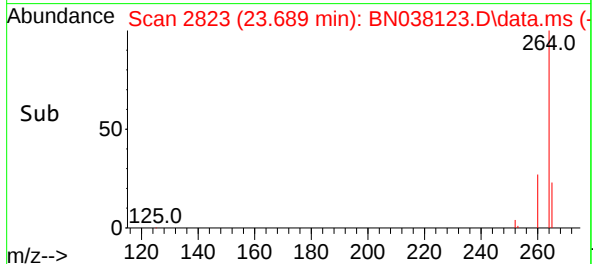
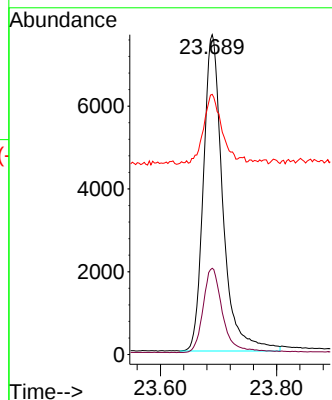
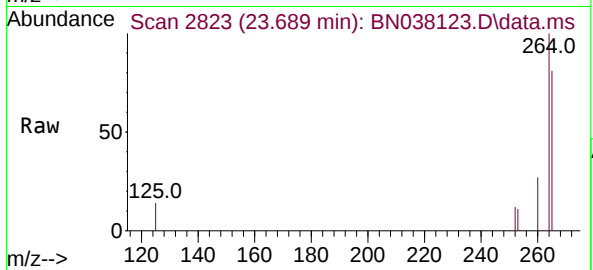




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.689 min Scan# 2821
Delta R.T. 0.009 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

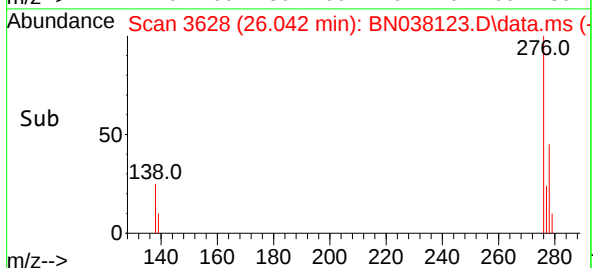
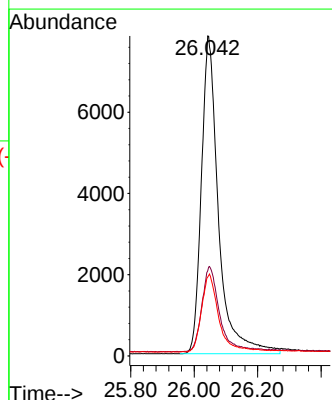
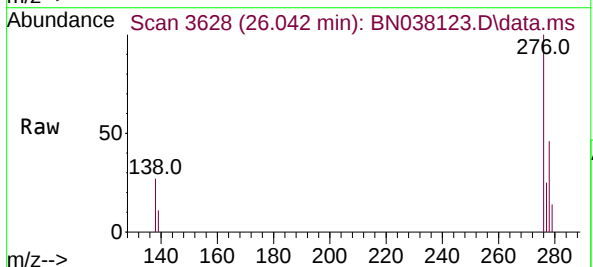
Instrument :
BNA_N
ClientSampleId :
PB170298BS

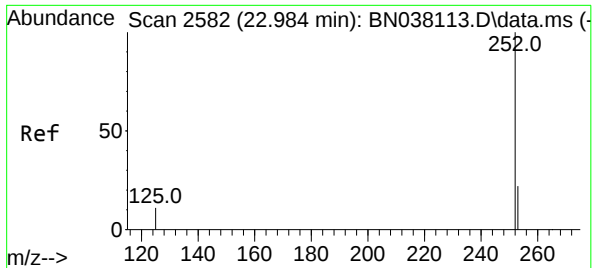
Tgt Ion:264 Resp: 17709
Ion Ratio Lower Upper
264 100
260 27.0 21.8 32.8
265 81.3 68.6 102.8



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 26.042 min Scan# 3628
Delta R.T. 0.009 min
Lab File: BN038123.D
Acq: 30 Oct 2025 11:25

Tgt Ion:276 Resp: 29389
Ion Ratio Lower Upper
276 100
138 27.1 21.4 32.0
277 23.6 19.2 28.8





#37

Benzo(b)fluoranthene

Concen: 0.356 ng

RT: 22.990 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038123.D

Acq: 30 Oct 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB170298BS

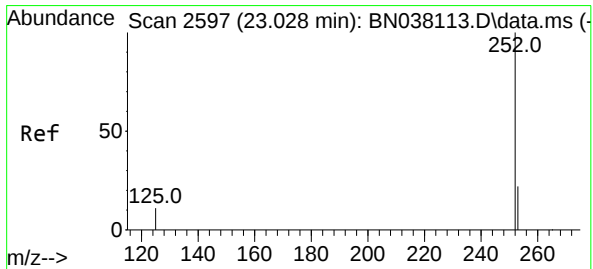
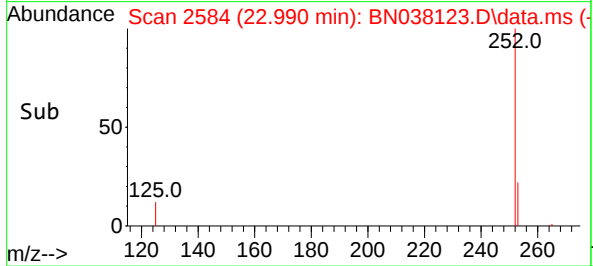
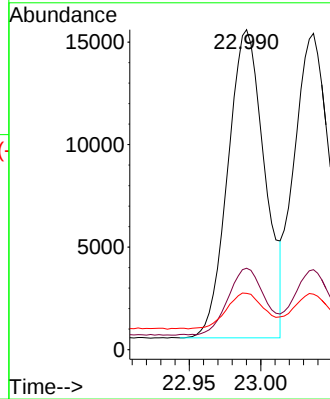
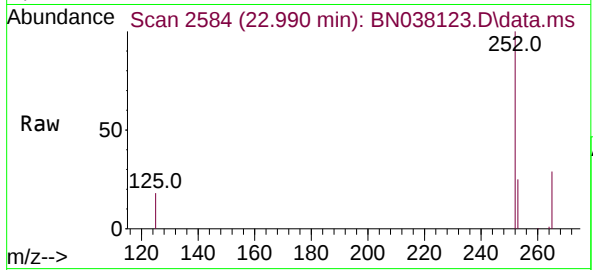
Tgt Ion:252 Resp: 26940

Ion Ratio Lower Upper

252 100

253 25.4 20.9 31.3

125 17.6 14.1 21.1



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 23.037 min Scan# 2600

Delta R.T. 0.009 min

Lab File: BN038123.D

Acq: 30 Oct 2025 11:25

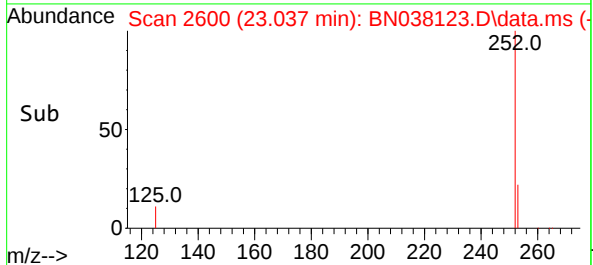
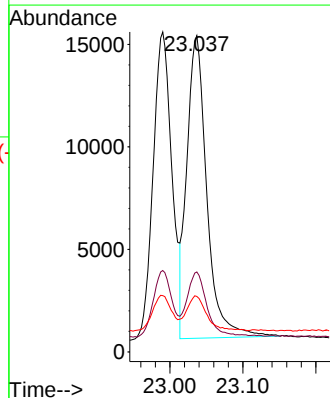
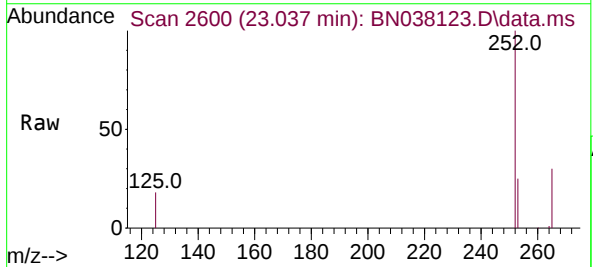
Tgt Ion:252 Resp: 28027

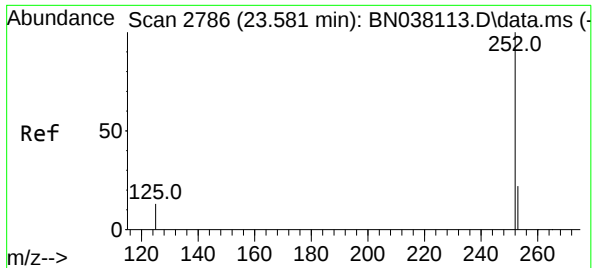
Ion Ratio Lower Upper

252 100

253 25.3 21.2 31.8

125 17.5 14.6 22.0





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.587 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038123.D

Acq: 30 Oct 2025 11:25

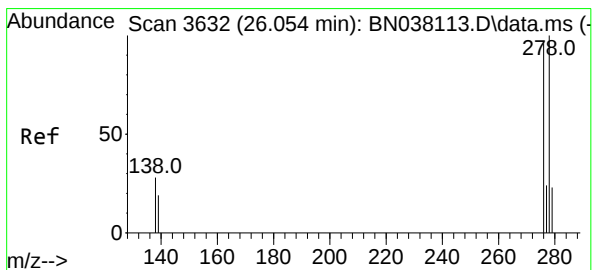
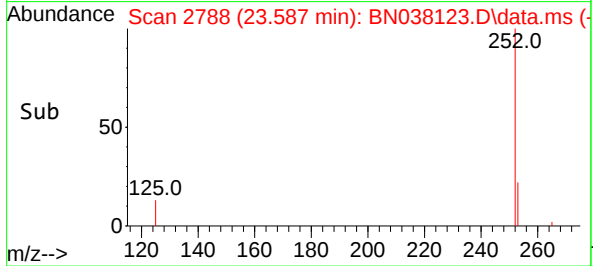
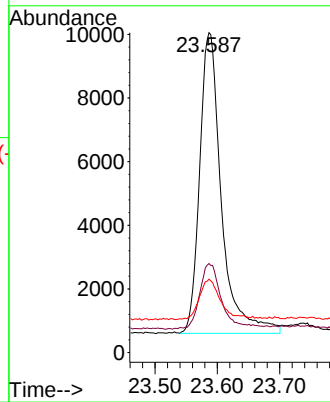
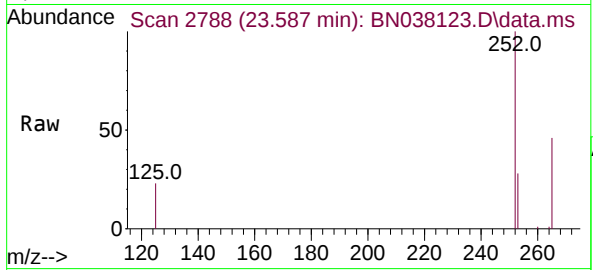
Instrument :

BNA_N

ClientSampleId :

PB170298BS

Tgt Ion:	252	Resp:	22887
Ion Ratio	Lower	Upper	
252	100		
253	27.8	23.1	34.7
125	22.9	18.6	28.0



#40

Dibenzo(a,h)anthracene

Concen: 0.401 ng

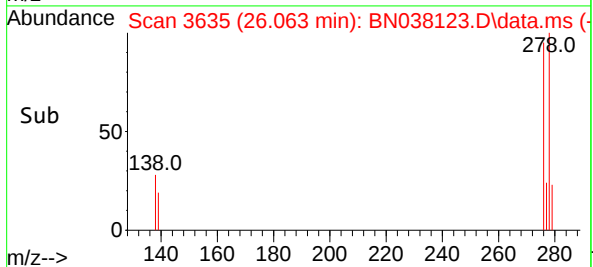
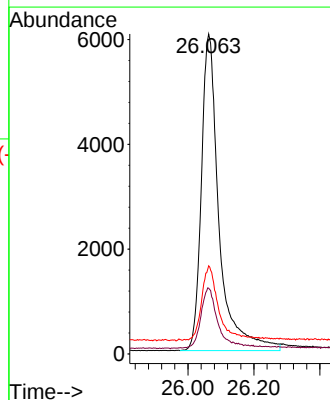
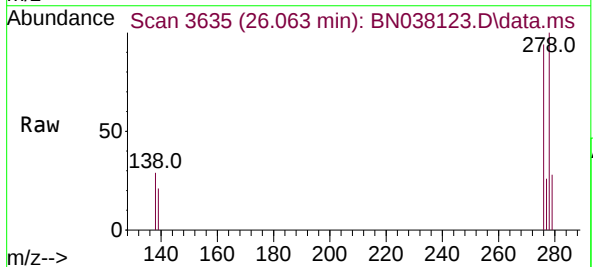
RT: 26.063 min Scan# 3635

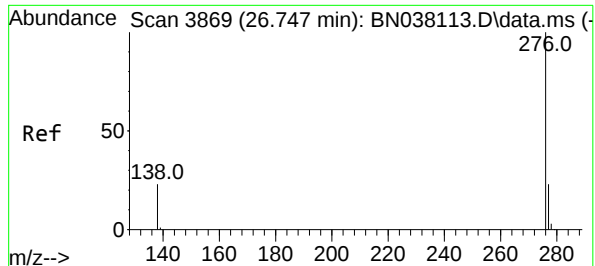
Delta R.T. 0.015 min

Lab File: BN038123.D

Acq: 30 Oct 2025 11:25

Tgt Ion:	278	Resp:	22438
Ion Ratio	Lower	Upper	
278	100		
139	20.5	17.6	26.4
279	27.5	22.6	33.8





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.762 min Scan# 38

Delta R.T. 0.012 min

Lab File: BN038123.D

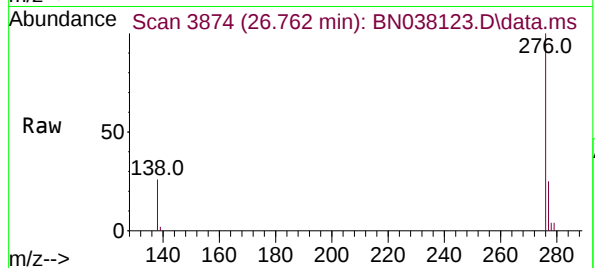
Acq: 30 Oct 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB170298BS



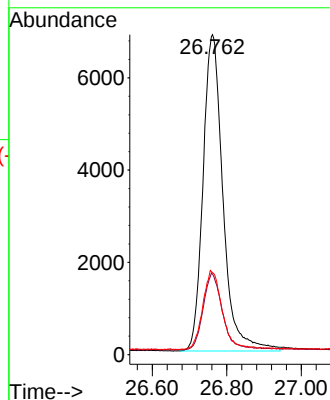
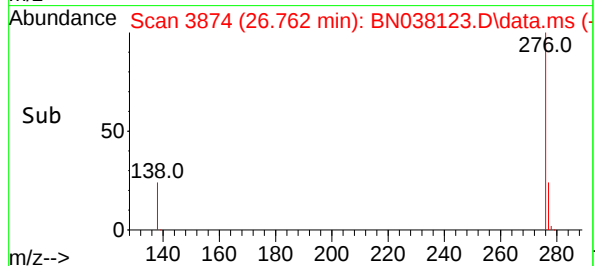
Tgt Ion:276 Resp: 25468

Ion Ratio Lower Upper

276 100

277 25.1 19.7 29.5

138 25.6 20.2 30.4



Manual Integration Report

Sequence:	BN102825	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.8	BN038114.D	Benzo(b)fluoranthene	rahul	10/29/2025 9:43:43 AM	mohammad	10/30/2025 5:29:45 AM	Peak Integrated by Software



Manual Integration Report

Sequence:	BN103025	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN102825

Review By	rahul	Review On	10/28/2025 3:41:07 PM
Supervise By	mohammad	Supervise On	10/30/2025 5:29:45 AM
SubDirectory	BN102825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN102825
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038110.D	28 Oct 2025 12:05	RC/JU	Ok
2	SSTDICC0.1	BN038111.D	28 Oct 2025 13:00	RC/JU	Ok
3	SSTDICC0.2	BN038112.D	28 Oct 2025 13:36	RC/JU	Ok
4	SSTDICCC0.4	BN038113.D	28 Oct 2025 14:13	RC/JU	Ok
5	SSTDICC0.8	BN038114.D	28 Oct 2025 14:49	RC/JU	Ok,M
6	SSTDICC1.6	BN038115.D	28 Oct 2025 15:25	RC/JU	Ok
7	SSTDICC3.2	BN038116.D	28 Oct 2025 16:02	RC/JU	Ok
8	SSTDICC5.0	BN038117.D	28 Oct 2025 16:38	RC/JU	Ok
9	SSTDICV0.4	BN038118.D	28 Oct 2025 17:51	RC/JU	Ok
10	PB170167BL	BN038119.D	28 Oct 2025 19:04	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN103025

Review By	rahul	Review On	10/31/2025 2:18:33 PM
Supervise By	Jagrut	Supervise On	10/31/2025 2:25:45 PM
SubDirectory	BN103025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN102825
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038120.D	30 Oct 2025 09:21	RC/JU	Ok
2	SSTDCCC0.4	BN038121.D	30 Oct 2025 10:01	RC/JU	Ok
3	PB170298BL	BN038122.D	30 Oct 2025 10:49	RC/JU	Ok
4	PB170298BS	BN038123.D	30 Oct 2025 11:25	RC/JU	Ok
5	Q3478-01	BN038124.D	30 Oct 2025 13:12	RC/JU	Dilution
6	Q3478-01DL	BN038125.D	30 Oct 2025 16:08	RC/JU	Ok
7	Q3015-21	BN038126.D	30 Oct 2025 17:12	RC/JU	Confirms
8	Q3015-21DL	BN038127.D	30 Oct 2025 17:48	RC/JU	Confirms
9	SSTDCCC0.4	BN038128.D	30 Oct 2025 18:24	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN102825

Review By	rahul	Review On	10/28/2025 3:41:07 PM
Supervise By	mohammad	Supervise On	10/30/2025 5:29:45 AM
SubDirectory	BN102825	HP Acquire Method	BNA_N, 8270_HP Processing Method BN102825

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904
CCC	SP6902
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6906
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038110.D	28 Oct 2025 12:05		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN038111.D	28 Oct 2025 13:00		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN038112.D	28 Oct 2025 13:36		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN038113.D	28 Oct 2025 14:13	compound #20 kept on LR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN038114.D	28 Oct 2025 14:49		RC/JU	Ok,M
6	SSTDICC1.6	SSTDICC1.6	BN038115.D	28 Oct 2025 15:25		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN038116.D	28 Oct 2025 16:02		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN038117.D	28 Oct 2025 16:38	Compound #20 removed from 5PPM	RC/JU	Ok
9	SSTDICV0.4	ICVBN102825	BN038118.D	28 Oct 2025 17:51		RC/JU	Ok
10	PB170167BL	PB170167BL	BN038119.D	28 Oct 2025 19:04	END CCC missing, Analyzed for Contamination check.	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN103025

Review By	rahul	Review On	10/31/2025 2:18:33 PM
Supervise By	Jagrut	Supervise On	10/31/2025 2:25:45 PM
SubDirectory	BN103025	HP Acquire Method	BNA_N, 8270_HP Processing Method BN102825

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904
CCC	SP6902
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6906
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038120.D	30 Oct 2025 09:21		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038121.D	30 Oct 2025 10:01	Comp#14 Surr,24 failed from lowside	RC/JU	Ok
3	PB170298BL	PB170298BL	BN038122.D	30 Oct 2025 10:49		RC/JU	Ok
4	PB170298BS	PB170298BS	BN038123.D	30 Oct 2025 11:25		RC/JU	Ok
5	Q3478-01	38072-061125	BN038124.D	30 Oct 2025 13:12	PT Sample, Need 50X Dilution	RC/JU	Dilution
6	Q3478-01DL	38072-061125DL	BN038125.D	30 Oct 2025 16:08		RC/JU	Ok
7	Q3015-21	WP0925-RR-PAH-WP	BN038126.D	30 Oct 2025 17:12	Already analyzed with OK Status	RC/JU	Confirms
8	Q3015-21DL	WP0925-RR-PAH-WPDL	BN038127.D	30 Oct 2025 17:48	Already analyzed with OK Status	RC/JU	Confirms
9	SSTDCCC0.4	SSTDCCC0.4EC	BN038128.D	30 Oct 2025 18:24		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Matrix: Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date: 10/28/2025

Extraction Start Time: 13:30

Extraction End Date: 10/28/2025

Extraction End Time: 18:00

Concentration By: EH

Supervisor By: RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6876
Surrogate	1.0ML	0.4 PPM	SP6873
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	E3980
Baked Na2SO4	N/A	EP2655
H2SO4 1:1	N/A	EP2610
10N NaOH	N/A	EP2609
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID: WATER BATH-1

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

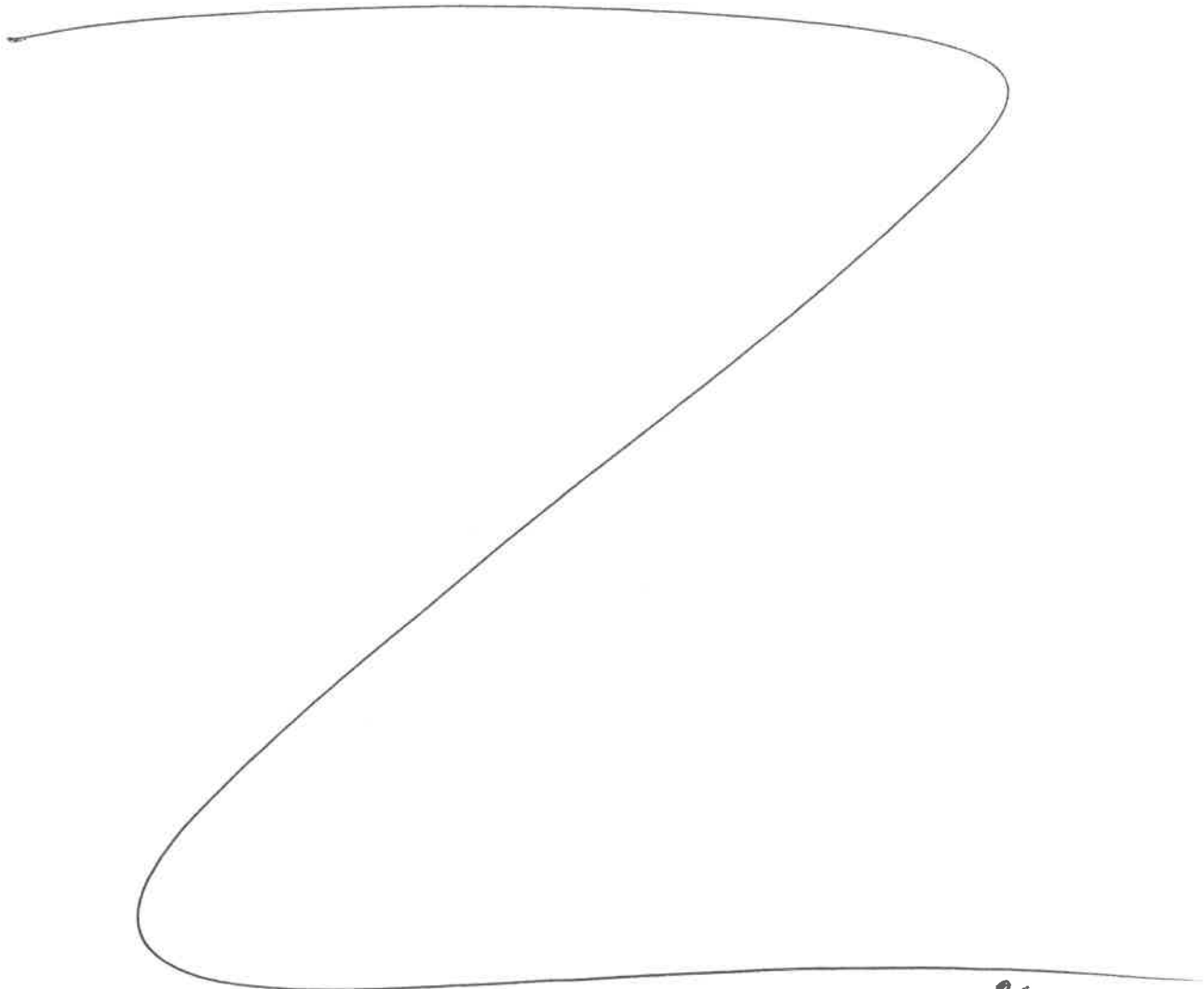
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/25	RS (Ext Lab)	JY / SVOC
18:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 10/28/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170298BL	SBLK298	SVOCMS Group5	1000	6	RUPESH	ritesh	1			SEP-1
PB170298BS	SLCS298	SVOCMS Group5	1000	6	RUPESH	ritesh	1			2
Q3478-01	38072-061125	SVOCMS Group5	1000	6	RUPESH	ritesh	1			3



RS
10/28

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3478 WorkList ID : 192744 Department : Extraction Date : 10-28-2025 13:23:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3478-01	38072-061125	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	10/27/2025	8270-Modified

Date/Time 10/28/25 13:25
Raw Sample Received by: RS (Ext-Lab)
Raw Sample Relinquished by: SJ (QA)

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Prep Standard - Chemical Standard Summary

Order ID : Q3478
Test : SVOCMS Group5
Prepbatch ID : PB170298,
Sequence ID/Qc Batch ID: BN103025,

Standard ID :
EP2609,EP2610,EP2655,SP6830,SP6873,SP6875,SP6876,SP6896,SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904,SP6905,SP6906,

Chemical ID :
1ul/100ul
sample,E3657,E3875,E3942,E3972,E3973,E3980,M6157,S10105,S11497,S11652,S11828,S12116,S12201,S12273,S12560,S12563,S12577,S12670,S12905,S13058,S13097,S13120,S13122,S13245,S13249,S13299,W 3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2655	10/24/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 10/24/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6873	09/30/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								09/30/2025

FROM 0.00400ml of S12201 + 0.00800ml of S12905 + 0.02000ml of S11828 + 99.96800ml of E3972 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6875	09/30/2025	03/30/2026	Rahul Chavli	None	None	Jagrut Upadhyay
								09/30/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3973 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6876	09/30/2025	11/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								09/30/2025

FROM 0.00080ml of S11652 + 0.01000ml of S13120 + 0.02000ml of S12560 + 0.02000ml of S13097 + 0.02000ml of S13245 + 49.92920ml of E3972 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6896	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11497 + 0.12500ml of S11828 + 0.12500ml of S12116 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3980 = Final Quantity: 25.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6897	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.50000ml of E3980 + 0.01000ml of SP6830 + 0.50000ml of SP6896 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6898	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.68000ml of E3980 + 0.01000ml of SP6830 + 0.32000ml of SP6896 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6900	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.84000ml of E3980 + 0.01000ml of SP6830 + 0.16000ml of SP6896 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6901	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.92000ml of E3980 + 0.01000ml of SP6830 + 0.08000ml of SP6896 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6902	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.96000ml of E3980 + 0.01000ml of SP6830 + 0.04000ml of SP6896 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6903	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.50000ml of E3980 + 0.01000ml of SP6830 + 0.50000ml of SP6902 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6904	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.75000ml of E3980 + 0.01000ml of SP6830 + 0.25000ml of SP6902 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6905	10/27/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.00630ml of S12201 + 0.01280ml of S12905 + 0.03200ml of S11828 + 0.03200ml of S13122 + 0.06400ml of S12563 + 0.06400ml of S13249 + 0.06400ml of S13299 + 19.72490ml of E3980 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6906	10/27/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3980 + 0.01000ml of SP6830 + 0.12500ml of SP6905 = 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.	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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	07/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

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)	25C1262005	04/16/2026	10/10/2025 / RUPESH	10/10/2025 / RUPESH	E3980

CHEMICAL RECEIPT LOG BOOK

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	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

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	04/22/2026	10/22/2025 / Jagrut	08/11/2023 / Yogesh	S11497

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	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	04/22/2026	10/22/2025 / Jagrut	03/08/2024 / Rahul	S12116

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	03/22/2026	09/22/2025 / Jagrut	03/15/2024 / Rahul	S12201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	03/22/2026	09/22/2025 / Jagrut	07/23/2024 / RAHUL	S12560

[CS 4978-2]

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]	A0214017	04/16/2026	10/16/2025 / Jagrut	07/23/2024 / RAHUL	S12563

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 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, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0216785	03/22/2026	09/22/2025 / Jagrut	12/09/2024 / anahy	S12905

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0221014	11/30/2025	09/03/2025 / Jagrut	05/20/2025 / Rahul	S13097

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	A0218894	02/25/2026	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13120

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	A0218894	04/16/2026	10/16/2025 / Jagrut	05/20/2025 / Rahul	S13122

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]	A0228451	03/23/2026	09/22/2025 / Jagrut	08/06/2025 / Rahul	S13245

[CS 4978-1]

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]	A0228451	04/27/2026	10/27/2025 / Jagrut	08/06/2025 / Rahul	S13249

[CS 4978-1]

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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0229652	04/27/2026	10/27/2025 / Jagrut	10/15/2025 / rahul	S13299

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 / lwona	07/03/2024 / lwona	W3112



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-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 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

Erica Castiglione

Certified By:

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 gravimetrically.



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:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

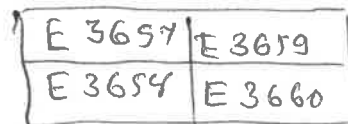
This document has been electronically produced and is valid without a signature.

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.





**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) 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

E3972

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
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	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<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

REC. ON 10/10/25
RJ

E3980

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

avantor™



MG157
MS

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 ₂ SO 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 SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantor**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production



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 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
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 gravimetrically.



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



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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



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



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
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

S11828
↓
S11832 } RC/
11/30/23

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:

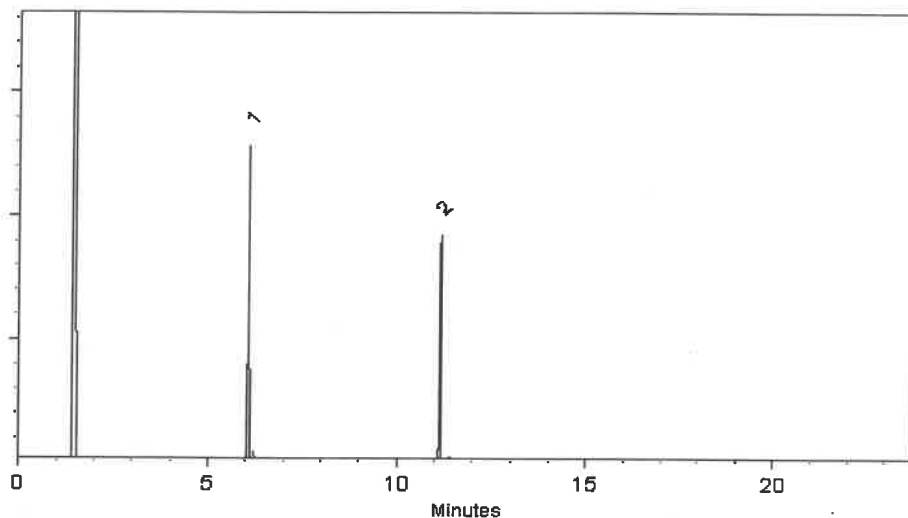
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

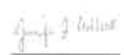


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



5580 Skylane Blvd
Santa Rosa, CA 95403

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(707)545-7901 Fax

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Date Received: _____

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Rev 0

Page 1 of 1

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

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

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 gravimetrically.



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Fax: 1-814-353-1309

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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

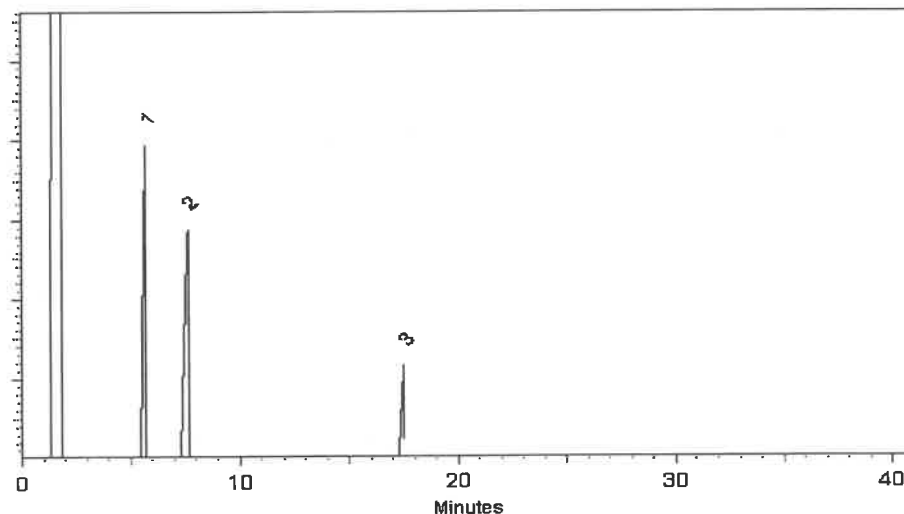
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope B. Riglin

Penelope Riglin - Operations Tech I

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Date Received: _____

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Page 1 of 4

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

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

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

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

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Page 3 of 4

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

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

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 Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577
↓
S12579 } RC
8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

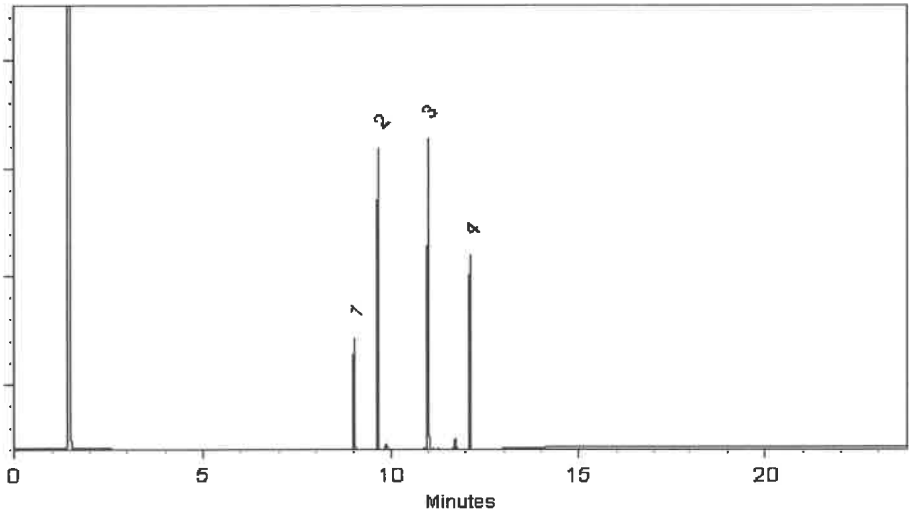
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

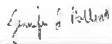
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



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Santa Rosa, CA 95403

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Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	≤ -10 °C	Methylene Chloride	1/2/2030	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057 } AC
↓
513061 } 1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Melissa Workoff
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 gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0221014

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

513088 }
↓
513117 } 5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511	
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916	
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612	
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402	1
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571	2
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516	3
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335	4
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980	5
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328	6
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793	7
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144	8
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269	9
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975	10
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566	11
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571	12
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757	13
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584	14
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475	15
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888	16
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616	17
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734	
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003	
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	+/- 36.5525	
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657	
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803	
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803	
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739	
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948	
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584	
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762	
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589	

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* 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.

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:

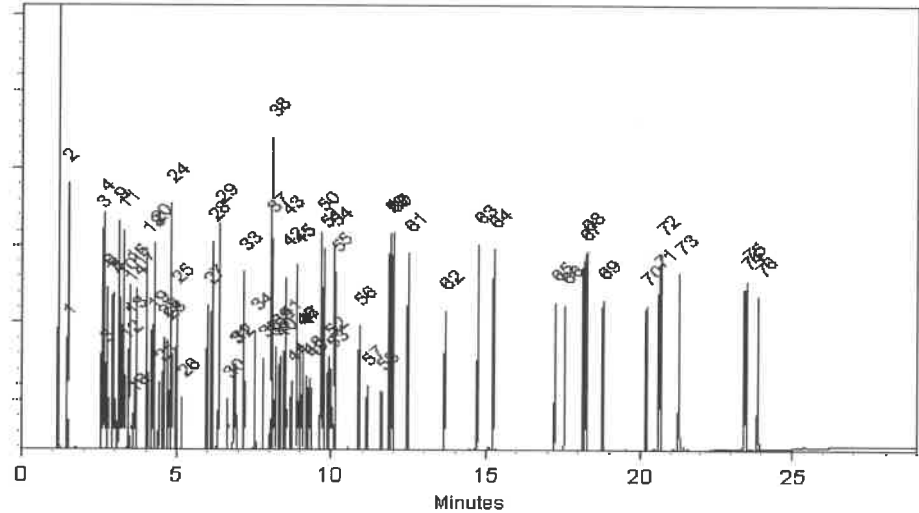
FID

Split Vent:

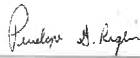
100 ml/min.

Inj. Vol

1µl

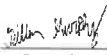


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025

Balance Serial # 1128360905


Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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



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.:** A0218894
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2029 **Storage:** 0°C or colder
Ship: Ambient

513118 } RC/
↓
513147 } 5/20/25.

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	SHBQ1693	99%	2,002.4 µg/mL	+/- 24.9202

* 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:

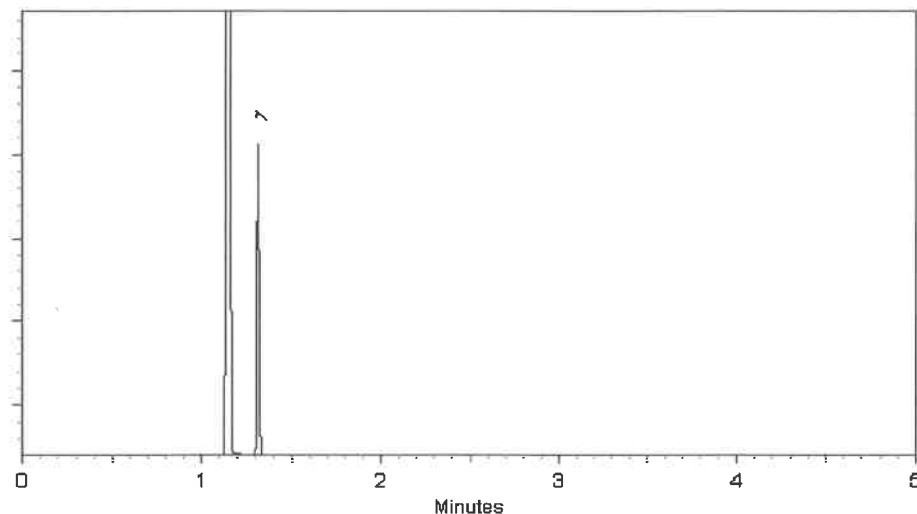
FID

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.

Penelope Riglin - Operations Tech I

Date Mixed: 07-Nov-2024

Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0228451

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 : August 31, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

513239 } RC/
↓
513268 } 08/06/25

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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Sucka - Mix Technician

Date Mixed: 01-Aug-2025

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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



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.:** A0229652

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

513299 } RC/
↓ 10/17/25
513328 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,004.9 µg/mL	+/- 36.5621
2	N-Nitrosodimethylamine	62-75-9	S250717RSR	99%	1,004.5 µg/mL	+/- 36.5484
3	Phenol	108-95-2	MKCT5446	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,004.8 µg/mL	+/- 36.5575
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.6 µg/mL	+/- 36.5166
6	2-Chlorophenol	95-57-8	STBK4742	99%	1,004.5 µg/mL	+/- 36.5484
7	1,3-Dichlorobenzene	541-73-1	STBL1702	99%	1,003.8 µg/mL	+/- 36.5211
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.8 µg/mL	+/- 36.5211
9	Benzyl alcohol	100-51-6	094986W07G	99%	1,003.8 µg/mL	+/- 36.5211
10	1,2-Dichlorobenzene	95-50-1	SHBR4446	99%	1,004.9 µg/mL	+/- 36.5621
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.3 µg/mL	+/- 36.5393
12	2,2'-oxybis(1-chloropropane)	108-60-1	RP250904RSR	99%	1,005.0 µg/mL	+/- 36.5666
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.4 µg/mL	+/- 18.2788
14	4-Methylphenol (p-cresol)	106-44-5	SHBQ7653	99%	502.3 µg/mL	+/- 18.2742
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.9 µg/mL	+/- 36.5621
16	Hexachloroethane	67-72-1	DAXRI	99%	1,003.9 µg/mL	+/- 36.5257
17	Nitrobenzene	98-95-3	10224044	99%	1,003.9 µg/mL	+/- 36.5257

18	Isophorone	78-59-1	MKCR3249	99%	1,004.8	µg/mL	+/- 36.5575
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.6	µg/mL	+/- 36.5166
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.1	µg/mL	+/- 36.5348
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.5	µg/mL	+/- 36.5484
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.8	µg/mL	+/- 36.5575
23	1,2,4-Trichlorobenzene	120-82-1	SHBR1701	99%	1,004.0	µg/mL	+/- 36.5302
24	Naphthalene	91-20-3	STBL1057	99%	1,004.0	µg/mL	+/- 36.5302
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.5	µg/mL	+/- 36.5484
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.7	µg/mL	+/- 36.4816
27	4-Chloro-3-methylphenol	59-50-7	BCCK5906	99%	1,004.3	µg/mL	+/- 36.5393
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.5	µg/mL	+/- 36.4029
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3847
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,004.0	µg/mL	+/- 36.5302
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,003.5	µg/mL	+/- 36.5120
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,003.6	µg/mL	+/- 36.5152
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,003.6	µg/mL	+/- 36.5166
34	2-Nitroaniline	88-74-4	RP250625RSR	99%	1,003.8	µg/mL	+/- 36.5211
35	1,4-Dinitrobenzene	100-25-4	RP250401RSR	99%	1,004.6	µg/mL	+/- 36.5530
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.4	µg/mL	+/- 36.3974
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.8	µg/mL	+/- 36.5575
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,003.5	µg/mL	+/- 36.5120
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,004.6	µg/mL	+/- 36.5530
40	1,2-Dinitrobenzene	528-29-0	RP250203RSR	99%	1,002.6	µg/mL	+/- 36.4802
41	Acenaphthene	83-32-9	MKCV8166	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,003.8	µg/mL	+/- 36.5211
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,004.1	µg/mL	+/- 36.5348
44	Dibenzofuran	132-64-9	MKCW3845	99%	1,003.6	µg/mL	+/- 36.5166
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,003.8	µg/mL	+/- 36.5211
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,003.0	µg/mL	+/- 36.4938
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,003.8	µg/mL	+/- 36.5211
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP250724RSR	99%	1,003.1	µg/mL	+/- 36.4984
49	Fluorene	86-73-7	10246250	98%	1,002.9	µg/mL	+/- 36.4905
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.3	µg/mL	+/- 36.5393
51	Diethylphthalate	84-66-2	223219R19C	99%	1,004.8	µg/mL	+/- 36.5575
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,004.0	µg/mL	+/- 36.5302
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S250805RSR	99%	1,004.8	µg/mL	+/- 36.5575

54	Diphenylamine	122-39-4	MKCT1512	99%	1,004.9	µg/mL	+/- 36.5621
55	Azobenzene	103-33-3	BCCL3292	99%	1,003.9	µg/mL	+/- 36.5257
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.9	µg/mL	+/- 36.5257
57	Hexachlorobenzene	118-74-1	16302300	99%	1,004.5	µg/mL	+/- 36.5484
58	Pentachlorophenol	87-86-5	RP240411RSR	99%	1,004.9	µg/mL	+/- 36.5621
59	Phenanthrene	85-01-8	MKCV8193	99%	1,003.8	µg/mL	+/- 36.5211
60	Anthracene	120-12-7	MKCW9141	99%	1,003.3	µg/mL	+/- 36.5029
61	Carbazole	86-74-8	15821400	99%	1,003.1	µg/mL	+/- 36.4984
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,004.6	µg/mL	+/- 36.5530
63	Fluoranthene	206-44-0	A0458721	99%	1,004.8	µg/mL	+/- 36.5575
64	Pyrene	129-00-0	BCCL8032	99%	1,003.8	µg/mL	+/- 36.5211
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.9	µg/mL	+/- 36.5621
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5075
67	Benz(a)anthracene	56-55-3	I80012022BAA	99%	1,004.3	µg/mL	+/- 36.5393
68	Chrysene	218-01-9	RP250815RSR	99%	1,003.9	µg/mL	+/- 36.5257
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.5	µg/mL	+/- 36.5484
70	Di-n-octyl phthalate	117-84-0	16197600	99%	1,004.4	µg/mL	+/- 36.5439
71	Benzo(b)fluoranthene	205-99-2	0225BF	99%	1,005.4	µg/mL	+/- 36.5803
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.5	µg/mL	+/- 36.5484
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,002.4	µg/mL	+/- 36.4726
74	Indeno(1,2,3-cd)pyrene	193-39-5	17-YMK-40-2	99%	1,004.0	µg/mL	+/- 36.5302
75	Dibenz(a,h)anthracene	53-70-3	712215450-1-1	99%	1,003.5	µg/mL	+/- 36.5120
76	Benzo(g,h,i)perylene	191-24-2	RP250501RSR	98%	1,003.0	µg/mL	+/- 36.4949

* 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.

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:

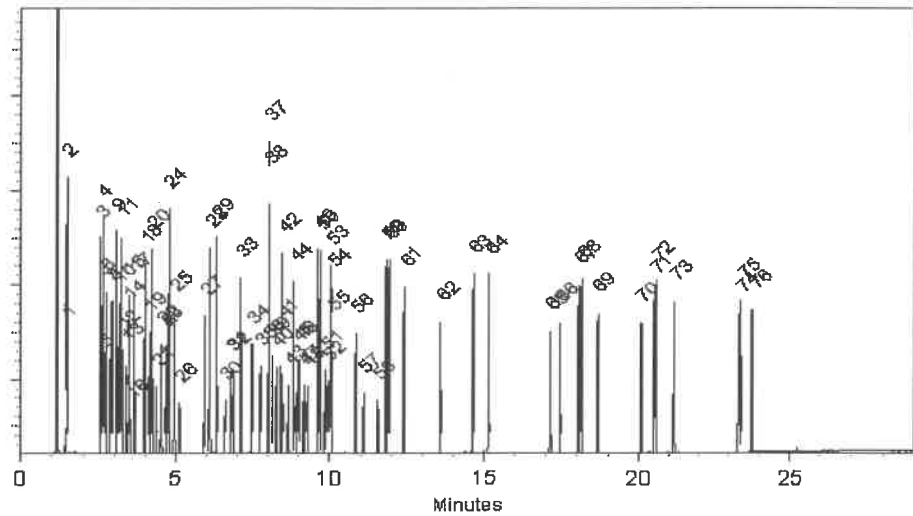
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl

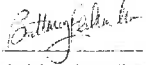


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 04-Sep-2025

Balance Serial # B345965662


Brittany Federinko - Operations Tech II

Date Passed: 15-Sep-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



SHIPPING DOCUMENTS

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SHIP TO:

Attn: **Sohil Jodhani**Alliance Technical Group, LLC - Newark
284 Sheffield St.

Mountainside, NJ 07092 -

Purchase Order # **P02-3982**

Packing Order #: 252180

Order #: **252180**

Order Date: 10/27/2025

Order Time: 1:23:03 PM

Your Account #: **3552**Sales Person: **Chris Dippold**Inspected By: **Chris Dippold**

Received by: SJ

10/28/2025 11:50

<u>PART #</u>	<u>LOT #</u>	<u>DESCRIPTION</u>	<u>Unit Size</u>	<u>QTY</u>
38072	061125	Quick Turn Around PT Semi-Volatiles in Non-Potable Water - CLP FedEX# 2356-974244	2 mL	1

Ship Via: Ground Collect

THIS IS NOT AN INVOICE, TERMS: NET 30 DAYS, FOB MIDDLETOWN, CT



Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312